

NOTICE TO BIDDERS

IS HEREBY GIVEN that the Town Clerk of the Town of Bedford will receive sealed bids for the purchase of one (1) new, unused centrifugal Vacuum truck equipped with a water jet rodding machine. The Truck, Vacuum apparatus and water powered jet rodder are to be used in the cleaning and maintenance of street drainage systems (such as catch basins, manholes and culverts.)

Bids will be received until 1 PM on July 13, 2010 at the office of the Bedford Town Clerk, Located at the Town House, 321 Bedford Road, Bedford Hills, NY 10507 at which time they will be publicly opened and read aloud.

Specifications and proposal forms may be downloaded from the Town Website, <http://www.bedfordny.info/>, on the bottom of the Department of Public Works page.

Bids must be submitted on the attached and enclosed in a sealed envelope plainly marked on the lower left hand corner "Bid for one (1) Truck equipped with Vacuum and water jet for the purpose of cleaning storm drain systems."

Lisbeth Fumagalli
Town Clerk
June 18, 2010

SPECIFICATIONS

GENERAL: It is the intent and purpose of these specifications to describe one (1) new 2011 latest model Mack GU 713 heavy duty diesel powered truck equipped as specified under detailed specifications.

The following specifications are to be considered minimum, unless otherwise specified.

Any deviations, additions or deletions from these specifications must be stated in a letter with your bid document and plainly marked to the correct area. Otherwise, the Town of Bedford will deem the unit to be as specified and upon receipt and inspection of the units, have the authority to return said units for noncompliance with the specifications.

Selling dealer (vender) must have a full service factory authorized heavy duty truck facility and parts availability for the trucks being bid and be authorized to do all warranty work on the truck and major components.(i.e. engines, transmissions, axles, etc.)

Third Party Facilities will not be accepted. Distance from the Town of Bedford will be a factor in determining low bidder.

The equipment delivered shall comply with all applicable requirements of the New York State Department of Motor Vehicles and the Society of Automotive Engineers (SAE).

The equipment shall carry a minimum full one-year warranty on all parts and labor. Other warrantee requirements above and beyond the one year minimum are described for separate components within this document. These higher requirements are the ones that the vendor and manufacturer shall adhere to when bidding on this vehicle and associated machinery.

Delivery shall be made of the truck in accordance with the specifications fully equipped and serviced, ready for operation on the date indicated on the approved contract. Delivery to be made to the Town of Bedford at the Highway Garage,301 Adams Street, Bedford Hills, New York. A guaranteed date of delivery shall be included in the bid.

The Town of Bedford Head Mechanic must be notified when all the components for the MACK CHASSIS AND VACTOR COMBINATION JET RODDER are to be mounted and installed.

The Head Mechanic of the Town of Bedford will inspect and have input in the location of all hydraulic tank, levers and controls in the cab and attached to the truck for ease in operation and servicing of the truck by both the mechanics and truck operator.

The successful bidder shall guarantee that the truck and equipment to be delivered conforms in every respect with standards of workmanship, materials and performance, all provision of Federal and New York State Laws and Regulations; and these specifications. The bid shall include a warranty period covering defects of workmanship and materials.

Bid Security- The bidder will not be required to submit a check as security with the proposal. However, the Town reserves the right to require the successful bidder to deposit One Thousand (\$1,000)

per Truck with the Town of Bedford as bid security before awarding the contract. The Town will retain this security as liquidated damages in the event that the successful bidder fails to deliver the equipment in accordance with the proposal.

The Commissioner of Public Works reserves the right to reject any or all bids, to accept any bid or to waive any informality in the proposal as deemed in the best interest of the Town of Bedford.

**TECHNICAL SPECIFICATIONS
FOR
12 YARD COMBINATION SEWER CLEANER
AND VACUUM MAN HOLE CLEANER
MOUNTED ON A HEAVY DUTY TRUCK CHASSIS**

		COMPLY	
		YES	NO
1.0	INTENT:		
	It is the intent of this specification to provide for the purchase of one (1) new and unused vacuum catch basin cleaner to be used for removing sand, stones, bottles, cans, sludge and other debris from wet wells, sanitary sewer lines, catch basins and/or manholes from a front mounted operating station. The unit shall have a centrifugal compressor (blower fan), a hydraulically driven high pressure water pump and an enclosed 12 cubic yard sealed body for storage of the collected debris. The system shall have a capability of operating both vacuum and jet rodder simultaneously at rated operating pressure. This specification is based upon a VACTOR Model 2112 combination vacuum jet rodder.		
	The Town of Bedford has evaluated different types of equipment and has determined that this product is best suited for its needs in safety, quality, performance, and standardization. This specification is not to be interpreted as restrictive, but rather as a measure of the safety, quality and performance against which all equipment bid will be compared. In comparing proposals, consideration will not be confined to price only. Contract will be awarded for the product which best serves the interests of Town of Bedford when cost, product, safety, quality and delivery are considered. The Town of Bedford reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities. A contract will be awarded to the bidder submitting the lowest responsible bid meeting the exact requirements of this specification.	-	-

		COMPLY	
		YES	NO
2.0	EQUIVALENT PRODUCT		
	Bids will be accepted for consideration on any make or model that is equal or superior to the equipment specified. Decisions of equivalency will be at the sole interpretation of the Town of Bedford.		
	Bidder shall demonstrate the exact equipment being offered within 5 business days of the bid opening date. Equipment demonstrated shall be fully equipped with all accessories and components required in this specification. Bidders who have previously demonstrated to the Town of Bedford may request a waiver of this requirement.		
	Failure to comply with this demonstration requirement will result in rejection of bid without further review.		
	A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the proposal. All modifications made to the standard production unit described in the manufacturer's brochures must be certified by the manufacturer and submitted with the bid, or the bid will be deemed "non-responsive" and rejected without further review.		
3.0	INTERPRETATIONS		
	In order to be fair to all bidders, no oral interpretations will be given to any bidder as to the meaning of the specification documents or any part thereof. Every request for such a consideration shall be made in writing to the municipal clerk of Town of Bedford. Based upon such inquiry, the Town of Bedford may choose to issue an Addendum in accordance with public contracts law.		
4.0	GENERAL		

		COMPLY	
		YES	NO
	The specification herein states the minimum requirements of the Town of Bedford. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. Any bid not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable the Town of Bedford to make a reasonable determination of compliance to the specification will be consider as "non-responsive" and rejected without further review.		
	It shall be the bidder's responsibility to carefully examine each item of the specification. Failure to offer a completed bid or failure to respond accurately to each individual item of the technical specification will cause the proposal to be rejected without further review. All variances, exceptions and/or deviations shall be fully described in the appropriate section. Deceit in responding to the specification will be cause for rejection.		
	5.0 SUB FRAME		
5.01	The equipment shall be of modular design consisting of a blower assembly, water tanks system, debris hopper and drive system.		
5.02	A sub frame shall be fabricated to the exact dimensions of the truck chassis for mounting of the module.		
5.03	All components of the module shall attach to the sub frame and not directly to the chassis.		
5.04	Sub frame shall be designed to ASME standards for maximum applied loads, chassis frame movement and even distribution of weight to the chassis and suspension.		
5.05	Sub frame shall be continuous and uninterrupted from back of cab to end of frame.		
	Exceptions:		
	6.0 DEBRIS BODY		
6.01	The debris storage body shall be constructed of a minimum 3/16" corrosion and abrasion resistant Ex-Ten steel.		
6.02	The debris storage body shall have a minimum yield point of 50,000 PSI and a minimum tensile strength of 70,000 PSI.		

		COMPLY	
		YES	NO
6.03	Body shall have a rear door that is hinged at the top and is equipped with a replaceable neoprene type seal to prevent leakage.		
6.04	For optimal particulate separation, vacuum shall be drawn from separate ports in the top of the debris body.		
6.05	For optimal particulate separation, intake port within the hopper shall be not less than 84" from the return port within the hopper to the vacuum unit. The Town of Bedford has evaluated various design criteria regarding particulate carry-back to the vacuum system. No exceptions will be allowed to this critical design criteria requirement.		
6.07	Dump controls and accessory controls shall be provided at a central curb side location directly behind the cab of the truck.		
6.08	The body shall be cylindrical having a minimum usable liquid capacity of 12 cubic yards or 2400 gallon capacity.		
6.09	Body shall be dumped by raising the body to a 50 degree angle utilizing a forward mounted, double acting hydraulic dump cylinder. The Town of Bedford has evaluated both dumping systems and ejector plate systems for discharging hopper debris and has determined since debris can become located behind the ejector plate, for the safety of its operators only non-ejector plate dumping systems will be accepted. No exceptions will be allowed to this critical safety and design criteria requirement.		
6.10	For stability and safety, dumping must be accomplished while the pivot point of the hopper remains fixed to the sub-frame. No exceptions will be allowed to this critical safety and design criteria requirement.		
6.11	Rear debris body door shall be flat, and shall open and close hydraulically by cylinders mounted at the top of the body. Door shall open 50 degrees from the fully closed position. Door shall be unlocked, opened, closed, and locked by a fail safe hydraulically activated sequential positive locking system, cam operated by a single hydraulic cylinder, with all controls located behind truck cab, forward of the debris body, so operator is not subject to sewage when dumping. Systems using live hydraulics will not be accepted. Systems using manual door locks will not be accepted.		

		COMPLY	
		YES	NO
6.12	Debris body shall have a body flush out system with (8) tungsten-carbide tipped nozzles mounted on a water manifold located in the front wall of the debris body to aid in the flushing of heavy debris. The system shall be rated at 2500 PSI 80 GPM. All piping and valves shall be rated at 3,000 PSI operating pressure. Control valve shall be on the curb side of the unit.		
6.13	A body load limit alarm shall be provided utilizing the manual load level indicator to activate as electric micro-switch to activate an alarm when the body is full.		
6.14	Body shall have a float type automatic shut-off system to protect the blower with (2) 10" stainless steel shut-off balls located in the debris body, encased in stainless steel cages.		
6.15	The debris body shall be equipped with a rear door drain to drain off excess liquids while retaining solids and shall include a manually operated 6" butterfly valve with 10' of lay flat hose having camlock quick connects.		
6.16	Debris body shall have 450 gpm, 3" submersible trash pump, externally mounted on the forward body wall, with floating arm and 2-1/2" x 25' drain hose having camlock quick connect fittings and shutoff valve.		
6.17	A floor to top of body screen assembly for the trash pump with lower clean out shall be provided.		
6.18	The debris body shall be equipped with a curb side forward mounted body drain to drain off excess liquids while retaining solids and shall include an air-activated 6" knife valve and screen with cam-lock coupler and 10' of lay flat hose.		
6.19	A tapered cone (cyclone) centrifugal separator shall be installed inline between the debris body and the vacuum system with clean out door. It shall prevent ingestion of 10 micron particles and larger into the vacuum source and have a dust door with a clean out box.		
6.20	A curb-side folding 3-pipe rack shall be provided, constructed of steel tubing, spring assisted in both down and up positions for ease of operation.		
6.21	A street-side folding 3-pipe rack shall be provided, constructed of steel tubing, spring assisted in both down and up positions for ease of operation.		
6.22	A splash shield shall be mounted around 50% of the outer hopper door opening to direct liquid and debris away from the chassis. Shield shall be 10" in depth, 5-sided, flat at the bottom and extending from 3 o'clock to 9 o'clock of the door.		

		COMPLY	
		YES	NO
6.23	A lubrication manifold system shall be provided to allow ground level greasing of boom lift and swing cylinders, float level indicator, top rear door hinges and debris body hoist cylinder pins.		
6.24	A deflector plate shall be located in the debris body.		
	Exceptions:		
7.0 WATER TANKS			
7.01	The water tanks shall be manufactured from non-corrosive material to prevent rust yet still provide for maximum strength.		
7.02	The water tank material shall require no internal coating and shall be repairable if patching is required.		
7.03	The water tanks shall be easily removed from the subframe to provide complete access to the truck chassis for maintenance purposes.		
7.04	The water tanks shall be adequately vented and connected to provide complete filling.		
7.05	The water tanks shall be totally separate from the debris tanks and provide no structural support.		
7.06	The water tanks shall share no common walls with the debris tanks to prevent corrosion.		
7.07	The water tanks shall come equipped with an anti-siphon device and 25' of hydrant fill hose and fittings.		
7.08	The water tanks shall carry a 10 year warranty against corrosion or cracking.		
7.09	All water tanks shall be fully baffled. Each tank shall be baffled so as to basically form a compartment for each 100 gallons of water. The Town of Bedford has evaluated systems having tank baffles at greater intervals and has determined that for the stability of the vehicle when turning and stopping and for the safety of its drivers only systems baffled at 100 gallon intervals or less will be accepted. No exceptions will be allowed to this critical safety criteria requirement.		
7.10	The water tank shall be located for the lowest possible center of gravity and under no circumstances shall manufacturers design have the top of the water tank more than 35 inches above the truck chassis frame rails.		
7.11	Fresh water shall enter the tanks through an in line 6" air gap, all aluminum covered anti-siphon device.		

		COMPLY	
		YES	NO
7.12	Water level sight tubes of non-yellowing plastic shall be installed on both tanks.		
7.13	The sides of these water tanks shall not extend more than 48" out from the centerline of the truck chassis.		
7.14	A fresh water drain system shall be provided to completely drain the fresh water system from one location utilizing a 3" drain port and plug.		
7.15	A minimum 6" and 4" connection between tanks shall be provided.		
7.16	For the safety of operators, under no circumstances shall the water tanks elevate with the debris body during the dumping cycle.		
7.17	A low water light at the operator station shall be provided utilizing an electric float device within the water tank.		
7.18	An air purge system utilizing the chassis air system shall be provided to displace residual water out of the high-pressure water system. System shall utilize the truck chassis air compressor to fill a 30-gallon auxiliary air storage chamber with pressure gauge and pressure protection valves to isolate the holding tank from the chassis compressor. System shall be equipped with ball valve and all necessary high pressure piping hoses, couplings and controls.		
7.19	A 3" Y-filter with 80 mesh stainless steel screen shall be provided at the water tank fill.		
7.20	Water tank must be a certified metered capacity of 1300 gallons. Certification shall be necessary upon delivery.		
7.21	Water tanks shall be constructed of aluminum.		
7.22	Liquid Float Level Indicator shall be provided.		
	Exceptions:		
8.0 VACUUM SYSTEM AND DRIVE			
8.01	Vacuum shall be provided by compressing air within a two stage 38" diameter centrifugal fan.		
8.02	Each stage shall be constructed of aluminum with hardened 1/4" cast aluminum blades. No exceptions will be allowed to this critical design and safety criteria requirement.		
8.03	The outer housing shall be constructed of 1/4" spun steel.		
8.04	It shall be equipped with a drain not exceeding 2" diameter.		
8.05	Fan system shall produce 8000 CFM.		
8.06	The compressor and housing shall be fully warranted against material and construction failure for five years.		

		COMPLY	
		YES	NO
8.07	Fan shall be powered by a 6-cylinder turbo charged 414 cu.in., 185 Hp @ 2400 rpm diesel engine (John Deere Model 6068-TF or equal) diesel engine.		
8.08	Step-up transmission shall be gear-type having a ratio of 1.6 To 1.		
8.09	A fluid coupler drive system shall be provided including vacuum relief and controls at operator station.		
8.10	For cleaning of drying beds, vacuuming leaves and debris along curbs. Unit shall have a full, constant vacuum, and full-range of boom control. A water ring, installed in the boom inlet, operating at 10 gallons of water per minute to aid in vacuuming of dry materials will also be included. All of the fore mentioned functions would operate while unit is in motion via the auxiliary engine. This also allows daily maintenance of the chassis engine without ignition of the chassis engine to extend the hose reel.		
8.11	Blower shall draw air from two (2) separate ports in the debris body.		
8.12	Vacuum hose shall be designed for front operation with hose mounted and stored at front mounted workstation. Front mounted location is required for ease of positioning vacuum hose as well as minimizing need for operator to swing hose into traffic.		
8.13	All connections between debris body and vacuum system will be of the self-adjusting pressure fitting type.		
8.14	Vacuum hose will remain stationary and not rise with debris body.		
8.15	Upper debris tube shall consist of an anchored steel tube and elbow.		
8.16	A cab protection device, independent of cab, shall protect cab.		
8.17	All vacuum pipes shall be connected to vacuum pick up tube and extension pipes by adjustable over-center quick clamps to join the aluminum flanges on pipes.		
8.18	An appropriate number of quick clamps shall be provided.		
8.19	Boom shall be supplied and mounted to truck chassis.		
8.20	Protection device while protecting cab shall not interfere with the operation of boom while working.		
8.21	A control station shall be equipped with control switches for all directions as well as a safety emergency shut down button, which shall automatically eliminate power to boom.		
8.22	The vacuum boom shall have a heavy-duty flexible hose assembly joining the transition pipe to the debris body, and a 70-degree elbow and 5-1/2' heavy duty hose at the suction end of the boom.		

		COMPLY	
		YES	NO
8.23	Boom shall rotate 180 degrees and shall be operated by an electric over hydraulic system. Lift and swing movements shall be actuated by hydraulic cylinders.		
8.24	The horizontal inner box beam boom (box beam within box beam) shall extend and retract a minimum of 8' and shall be located at the front work station in its retracted position, providing 227" minimum reach off the longitudinal axis of unit.		
8.25	Boom shall be fully controlled by a remote push button pendant control station with 25 ft. cable. Control shall include up / down, left / right, in / out directions to power appropriate hydraulic cylinders.		
8.26	A joystick for hydraulic control of the boom shall be installed on the hose reel.		
8.27	A cordless remote boom control system shall be provided.		
8.28	As part of bidders proposal, a detailed engineering drawing must be supplied showing the relationship of the hose reel in conjunction with the vacuum boom mounted on a truck. Drawing shall show module mounted on chassis, full arc of vacuum hose both retracted and extended, full rotation of arc for hose reel in the extended position, dimension all arc lengths of vacuum boom retracted and extended, and highlight extended area for vacuum boom.		
	Exceptions:		
	9.0 WATER PUMP		
9.01	High pressure water pump shall be a double acting single piston pump hydraulically operated from a direct hydraulic pump.		
9.02	Hydraulic flow to drive the water pump shall be from a hydraulic oil pump driven by the truck chassis engine through a split transfer case.		
9.03	For long term durability and minimum friction, pump shall not exceed 23 strokes per minute, and cycle every 4 ½ seconds.		
9.04	For minimum maintenance, pump shall have not more than 5 moving parts.		
9.05	Water pump shall operate with an oil to water ratio of 1 to 1.		
9.06	PTO shall engage the hydraulic pump but not the water pump to eliminate unnecessary high pressure ball valve by pass and water pump wear.		
9.07	Water pump shall be engaged and disengaged at the operator's station at the front of the truck only.		

		COMPLY	
		YES	NO
9.08	High pressure water pump shall be rated at 80 GPM and 2500 PSI.		
9.09	Pump shall be continuous duty with a design so no damage will occur if run at normal operating pressure without water for 10 minutes. (Certification by original water pump manufacturer to operate in such a manner shall be provided.)		
9.10	Water pump shall operate at not more than 23 RPM, cycling at approximately every 4 1/2 seconds. No exception will be allowed to this critical design criteria requirement.		
9.11	Pump cycle shall provide an automatic "jack hammer" type action in the hose to assist the nozzle in breaking through obstructions.		
9.12	Water pump location shall provide a flooded suction inlet to eliminate potential cavitation damage.		
9.13	A 3" in-line "Y" trap Monel stainless steel strainer shall be located between the water cells and water pump. No exceptions.		
9.14	A cover plate shall protect the water pump plus all water inlet and outlet lines from the pump.		
9.15	Drain valves in the bottom section of pump for cold weather shall be provided.		
9.16	Water pump shall be capable of maximum water pressure and flow while achieving maximum vacuum pressure.		
9.17	Water pump shall operate independent of vacuum system.		
9.18	An oil to water heat exchanger will be provided in the water system to cool all hydraulic fluids on the unit.		
9.19	A monitor light shall be provided to indicate when designed pressure is exceeded.		
9.20	Water pump shall have capabilities of being engaged or disengaged from driving mechanism from front control panel by turning on or off an electric switch thus providing added control and safety.		
9.21	The hydraulic system shall regulate the hydraulic pump and water pump.		
9.22	The water pump shall provide 80 GPM at 2500 PSI.		
9.23	To assure full useable flow and pressure, the flow and pressure shall be measured at the hose reel, not at the pump outlet.		
9.24	A 12 GPM cold weather recirculation system shall be provided.		
9.26	A hydro-pneumatic nitrogen charged accumulator system shall be provided with all control valves, piping and hoses for either continuous flow or jackhammer rodding.		

		COMPLY	
		YES	NO
9.27	Accumulator shall be a 2.5 gallon capacity and 1400 to 2500 PSI pressure rating.		
9.28	A multi-flow system incorporating automatic unloading valves at the pump shall be provided.		
9.29	Utilizing a dial control at the operator station to control the flow of hydraulic oil to the water pump, system shall allow the independent variation of water flow and water pressure by varying pump speed. Systems requiring a ball valve will not be accepted because of the back pressure created in the water pump. No exceptions will be allowed to this critical design criteria requirement.		
9.30	3" Y-Strainer @ Water Pump shall be provided.		
9.31	3" Drain Valve @ Water Pump shall be provided.		
9.32	A nozzle rack shall be provided.		
9.33	Catch Basin Cleaning Water System: 20 Gpm At 600 Psi shall be provided.		
9.34	System shall be relieved to protect operator.		
9.35	Handgun shall be supplied that allows for changing of flow pattern from a fine mist to a steady stream.		
9.36	Handgun shall come equipped with quick connect couplers.		
9.37	A spring retractable storage reel for handgun hose shall be provided to allow the operator to deliver water to area served by pick up hose and to the inside of the debris body for clean out.		
9.38	Reel shall be mounted on passenger side of body, behind truck cab, equipped with 1/2" x 50' 2000 psi hose.		
9.39	A mid-ship quick disconnect handgun couplers shall be provided.		
9.40	Front and rear quick disconnect handgun couplers shall be provided.		
9.41	A fan flush-out system shall be provided.		
	Exceptions:		
10.0 HOSE REEL			
10.01	Hose reel assembly shall be direct frame mounted.		
10.02	Hose reel assembly shall be mounted on an independent frame that can be removed from brackets attached permanently to front of main truck frame members.		
10.03	The ground clearance shall be not less than 14".		

		COMPLY	
		YES	NO
10.04	Reel will be manufactured out of 1/4" spun steel for added structural strength and shall require no internal or external reinforcements that could damage rodder hose.		
10.05	Motor shall control the reel speed and forward or reverse rotation.		
10.06	Dimensionally, the reel assembly shall have a width diameter not exceeding 48", depth not exceeding 20" and a maximum height of not more than 70" from the ground.		
10.07	Hose reel shall have a 1" rotating swivel joint that is adjustable and has replaceable seals on the inlet line to provide free rotation of hose reel.		
10.08	Hose reel shall include a pneumatically actuated lock that shall positively lock the reel in any position across its operating range.		
10.09	Controls shall be located on both sides of the hose reel, allowing operator to work at either side of unit for safety purposes.		
10.10	Hose capacity shall be 600' x 1" ID.		
10.11	600' X 1" Sewer Hose/2500 Psi shall be provided.		
10.12	Automatic Hose Level Wind Guide shall be provided.		
10.13	Automatic hose level wind guide provide hands-free uniform rewinding of jet hose onto reel.		
10.14	Automatic hose level wind guide shall include an air operated preloaded roller assembly to maintain hose placement on the reel.		
10.15	A hose footage counter shall be supplied to indicate the amount of hose travel within pipe.		
10.16	Hydraulic shut off valves shall be provided at the suction, return and filter lines to permit servicing of the hydraulic system.		
10.17	A nozzle storage rack shall be provided in the toolbox.		
10.18	Two (2) 1/2" high pressure ball valves shall be provided for draining the water pump and flushing sediment from the bottom of the pump.		
	Exceptions:		
11.0	FRONT OPERATING STATION AND CONTROLS		
11.01	Operator station will be located at the front of the truck at the right curb side of the hose reel.		
11.02	Station shall include truck engine throttle, High pressure water pump (on/off), hose reel control valve (forward / reverse), adjustable hose reel speed control, over-speed warning light for water pump, oil dampened water pressure gauge, boom controls, and low water warning light.		

		COMPLY	
		YES	NO
	Exceptions:		
12.0	ELECTRICAL SYSTEM AND LIGHTS		
12.01	The entire system shall be vapor sealed to eliminate moisture damage, "Betts" type or equal.		
12.02	All electrical connections shall require no exposed wires or terminals.		
12.03	All wiring shall be color-coded and encased in conduit to scaled terminal boxes with circuit breakers.		
12.04	All light bulbs shall be shock mounted to eliminate bulb failure.		
12.05	All other lights required by State and Federal Laws.		
12.06	Work Light At Operator Station shall be provided.		
12.07	Work Light At Hose Reel Manhole shall be provided.		
12.08	Work Lights (2) On Standard Boom shall be provided.		
12.09	Work Lights At Auxiliary Engine-One (1) on each side-goal post mounted (ie. Con Ed Style) shall be provided.		
12.10	Work Lights / Rear Door (ie. Con Ed Style) shall be provided.		
12.11	Led Lights, Clearance, Back-Up, Stop, Tail & Turn shall be provided.		
	Exceptions:		
13.0	ACCESSORIES		
13.01	One (1) sets of all applicable parts, operator and maintenance repair manuals shall be provided.		
13.02	(1) 1 In. - 15 Degree Sand Nozzle (#60307) shall be provided.		
13.03	(1) 1 In. - 15 Degree Penetrator Nozzle (#60308) shall be provided.		
13.04	(1) 1 In. - 30 Degree Sanitary Nozzle (#58756) shall be provided.		
13.05	(1) 1 In. - 15 Degree Sanitary Nozzle (#60306) shall be provided.		
13.06	(1) 1 In. - 3 In. Diameter General Purpose Sand Nozzle (#58929) shall be provided.		
13.07	10 Ft. x 1 In. Leader Hose shall be provided.		
13.08	(1) Nozzle Pipe For #10 Nozzle shall be provided.		
13.09	The basic vacuum tube package shall include the following:		
13.10	(1) 8" x 3' aluminum pipe		
13.11	(2) 8" x 5' aluminum pipe		
13.12	(1) 8" x 6'6" catch basin tube		

		COMPLY	
		YES	NO
13.13	(4) 8" quick clamps		
13.14	(1) 8 In. Adjustable Air Adapter shall be provided.		
13.15	(1) 8 In. X 3' Aluminum Pipe Assembly shall be provided.		
13.16	(1) 8 In. X 5' Aluminum Pipe Assembly shall be provided.		
13.17	(2) 8 In. Quick Clamp Assembly shall be provided.		
13.18	(1) Flexible Hose Guide shall be provided.		
13.19	(1) Additional Flexible Hose Guide shall be provided.		
13.20	(1) Hydrant Wrench shall be provided.		
13.21	(1) Emergency Flare Kit shall be provided.		
13.22	(1) Grate Lifting Hook shall be provided.		
13.23	(1) 5# Fire Extinguisher shall be provided.		
13.24	Two (2) front tow hooks shall be provided.		
13.25	Two (2) rear tow hooks shall be provided.		
13.26	A 24" X 18" X 18" aluminum toolbox shall be provided.		
13.27	(1) 45 In. X 16 In. X 12 In. Aluminum Toolbox (45895A) shall be provided.		
13.28	A 96" X 30" X 16" full width aluminum toolbox with shelf shall be provided and mounted behind cab. Tool box to have access door on driver and passenger side.		
13.29	An aluminum under engine toolbox shall be provided.		
13.30	Mud flaps shall be provided.		
13.31	Camera System, Front & Rear Camera shall be provided.		
13.32	A safety cone storage rack shall be provided.		
13.33	Micro strainer shall be horizontal.		
13.34	A sampling port with platform and safety rails shall be provided.		
13.35	A heavy duty rear bumper (Con Ed style) shall be provided.		
13.36	HEIGHT RESTRICTION: Overall Height MUST BE LESS THAN 12' (11'10" MAX) shall be provided.		
13.37	Two (2) Front Bumper Mounted Tool Boxes, one on each corner of bumper with Whelen 500 Series Super LED Lightheads shall be provided.		
13.38	Whelen Lighting: shall be provided.		
13.39	One (1) Whelen Super LED Lightbar Mini-Freedom #FT8-BDPW (4-LED Bulbs on corners & 2-front take down halogen work lights permanent mount) with Lightbar mounted on front of "goal post" so as not to interfere with boom functions shall be provided.		

		COMPLY	
		YES	NO
13.40	One (1) Whelen #L360 Series Super LED Beacon Class#1-Amber Model #L31HAF (permanent), mounted on bracket top rear door shall be provided.		
13.41	One (1) Whelen Traffic Advisor Super LED 8-Lamp Amber 45.12" Long (Model # TANF85) permanently mounted on rear debris body door shall be provided.		
13.42	Four (4) Whelen 500 Series Super LED Lightheads (Grommet Mounted) Model #5VA02ZCR Vertical Mounted, (2) on Rear Bumper, (2) on Front Bumper cut out, in grommet mount kit (Lightheads on front bumper location to be installed on front corner mounted tool boxes) shall be provided.		
13.43	Two (2) Whelan M-Series Super LED Lightheads Model #M7A with Chrome Mounting flange, #M7FC Lightheads mounted midship of vehicle on plates right and left side of vehicle shall be provided.		
13.44	Hydraulic Extendable Boom to 8' For Fan Unit shall be provided.		
13.45	Loaner Truck Must Be Provided if unit is to be out of service for any great length of time at no charge to the Town of Bedford during any extended warranty or service work.		
13.46	Additional training sessions, performed by a Factory Trained Operator / Technician, as determined by the Town of Bedford Highway Department.		
	Exceptions:		
	14.0 CHASSIS		
14.001	2011 Mack Granite GU-713, 72,000 GVW, 425 HP-MP8, Allison RDS-4500 Auto Trans., shall be provided.		
14.002	IDLE EMISSION CERTIFICATION, IDLE EMISSION CERTIFICATION - CARB 08		
14.003	TYPE OF SERVICE, MUNICIPAL		
14.004	VEHICLE APPLICATION CLASS, HEAVY VOCATIONAL - Unlimited operation on concrete, asphalt, or maintained gravel/packed dirt with a maximum 3% grade; limited operation on unmaintained surfaces with maximum 5% grade; limited operation on concrete, asphalt, or maintained gravel/packed dirt with maximum, 0% grade. (3 AXLES) 78,000 lbs (35,281 kg) MAX GVW. (4 AXLES) 80,000 lbs (36,288 kg) MAX GVW.		

		COMPLY	
		YES	NO
14.005	CARRIER APPLICATION, WITH CRD150-151, Unlimited miles on 3% grade maintained gravel/packed dirt or paved, Max 15% miles on 10% grade maintained gravel/packed dirt or paved, Max 10% miles on 5% unmaintained, maintained gravel, packed dirt, or paved. 90000# (41000 kg) MAX GCW. (Carrier Code USA-V1)		
14.006	VEHICLE TYPE, STRAIGHT TRUCK WITHOUT TRAILER		
14.007	VEHICLE USE AND BODY/TRAILER TYPE, REFUSE (NON LOADER). On/Off Hwy		
14.008	PRODUCT TYPE, PRODUCT TYPE - CML64R		
14.009	PRODUCT CLASS, PRODUCT CLASS 28		
14.010	CHASSIS (BASE MODEL), GU703 6-WHEEL TRUCK		
14.011	ENGINE/TRANSMISSION/CLUTCH		
14.012	ENGINE, MACK MP8-425M 425 HP @1500-1900 RPM (PEAK) 1570 LB FT. MAX TORQUE @ 1100-1300 RPM		
14.013	TRANSMISSION, 6 SPEED AUTOMATIC, ALLISON 4500-RDS-6 (4.70/0.67) RUGGED DUTY SERIES GEN 4 INCLUDES TRANSMISSION COOLER,, EXTERNAL OIL COOLER, INTERNAL FILTER, AND OIL LEVEL SENSOR		
14.014	CLUTCH, OMIT CLUTCH		
14.015	EXHAUST/EMISSIONS		
14.016	DIESEL PARTICULATE FILTER, DIESEL PARTICULATE FILTER RH SIDE UNDER CAB WITH SCR FRAME MTD RH SIDE		
14.017	EXHAUST AFTER-TREATMENT SYSTEM, EXHAUST AFTER-TREATMENT SYSTEM DIESEL PARTIC FILTER CERAMIC PASSIVE REGEN		
14.018	DPF REGENERATION CONTROL, AUTO IN MOTION, MAN. STATIONARY MAN INHIBIT & AUTO STATIONARY WITH PTO ENGAGED		
14.019	DPF SMART SWITCH, NO INHIBIT DPF REGENERATION SWITCH		
14.020	EXHAUST, NO MUFFLER, SINGLE (R/S) VERT EXHAUST CAB MTD, LOWER VENTURI DIFFUSER, TURNED END		
14.021	SINGLE, BRIGHT FINISH HEAT SHIELD		
14.022	FURNISH BRIGHT FINISH STAINLESS STEEL HEAT SHIELD FOR FRAME MTD MACK CAP DPF		
14.023	ENGINE EQUIPMENT		
14.024	AIR COMPRESSOR, MERITOR/WABCO 318 18.7 CFM AIR GOVERNOR		

		COMPLY	
		YES	NO
14.025	INSIDE/OUTSIDE AIR INTAKE WITH IN-CAB CONTROL FOR SNOWPLOWS		
14.026	ALTERNATOR, DELCO 12V 145A (24SI)		
14.027	BATTERIES, (3) MACK 12V 1000/3000 CCA THREADED STUD		
14.028	BUG SCREEN, WITH O BUG SCREEN		
14.029	TO -34 DEGREES F (-37 DEGREES C)		
14.030	MACK COOLANT CONDITIONER		
14.031	ENGINE BRAKE, MACK ENGINE BRAKE POWER LEASH FOR MP8		
14.032	ENGINE BLOCK HEATER, 120V 1500 WATT ENGINE BLOCK HEATER		
14.033	FAN DRIVE, BEHR FAN AND ELECTRONIC MODULATING FAN DRIVE		
14.034	FLYWHEEL HOUSING, LIGHT WEIGHT, ALUMINUM		
14.035	FUEL-WATER SEPARATOR, RACOR FUEL FILTER 1000 FH, 12V/ELECTRICAL HEATER WITH MACK INTEGRAL FUEL/WATER SEPARATOR HAND PRIMER PUMP		
14.036	HOSES - RADIATOR/HEATER, MACK BRAND EPDM RADIATOR & HEATER HOSES		
14.037	RADIATOR, ALUMINUM CORE		
14.038	ELECTRIC PREHEATER		
14.039	STARTER, 12 VOLT DELCO 39MT-MXT		
14.040	ELECTRONIC STARTER INTERLOCK		
14.041	TETHER DEVICE, FURNISH CAP RETAINER FOR OIL FILL & RADIATOR OVERFLOW TANK, BATTERY BOX, AND TOOL BOX (WHEN FURNISHED)		
14.042	TRANSMISSION EQUIPMENT/DRIVELINES		
14.043	CLUTCH ASSIST (AIR), Information is not required		
14.044	CLUTCH PEDAL, W/O CLUTCH PEDAL		
14.045	TRANSMISSION BELL HOUSING, ALUMINUM		
14.046	FURNISH FOR ALLISON TRANS WITH DIRECT MOUNT COOLER WITH US '07 ENGINES		
14.047	SYNTHETIC LUBRICANT - TRANSMISSION, TRANSYND SYNTHETIC LUBE FOR ALLISON TRANS		
14.048	VOCATIONAL PACKAGE - ALLISON, ALLISON VOCATIONAL PKG. #99113 RUGGED DUTY SERIES (RDS) - ON/OFF HIGHWAY		
14.049	DRIVESHAFT GUARD FOR CENTER BEARING		
14.050	DRIVELINE - MAIN, MERITOR 18N HD WITH COATED SPLINES		

		COMPLY	
		YES	NO
	AND EASY SERVICE (HALF ROUND) YOKES		
14.051	DRIVELINE - INTERAXLE, MERITOR 18N WITH COATED SPLINES AND EASY SERVICE (HALF ROUND) YOKES		
14.052	CAB		
14.053	MACK (BERGSTROM) INTEGRAL WITH HEATER COMBINATION HEATER/DEFROSTER AND CONDITIONER AIR CONDITIONING COMPRESSOR, ROTARY FREON		
14.054	AIR RESTRICTION MONITOR (INTAKE), WITH O AIR RESTRICTION MONITOR		
14.055	CAB, LH-DRIVE CA68 CONV CAB		
14.056	AUX. INCAB PNEUMATIC LINE CLEANOUT CAB MOUNTING, AIR SUSPENSION		
14.057	CERTIFIED WEIGHT		
14.058	PROVIDE (6) MISC SWITCHES (2) 15A IGN, (1) 20A IGN, (1) 10A IGN, (1) 15A BAT, AND (1) 20A BAT.		
14.059	PARK BRAKE AND ENGINE RUNNING ACTIVATED		
14.060	ENGINE SHUTOFF, KEY TYPE		
14.061	FENDER EXTENSIONS, FENDER EXTENSIONS		
14.062	5LB FIRE EXTINGUISHER BETWEEN LH SEAT BASE AND DOOR WITH VALVE AIMED REARWARD		
14.063	GAUGE CLUSTER, EXHAUST PYROMETER, TRANSMISSION OIL TEMPERATURE, AXLE OIL TEMPERATURE, AND MANIFOLD PRESSURE GAUGES. GAUGE, ENGINE OIL TEMPERATURE		
14.064	GAUGES, ENGLISH/METRIC DISPLAY		
14.065	GAUGE, SPEEDOMETER WITH TRIP ODOMETER (ELECTRONIC 1% ACCURACY)		
14.066	ENGINE TACHOMETER		
14.067	GEAR SHIFT, ALLISON ELECTRONIC SHIFT T-HANDLE TOWER/FLOOR MOUNTED		
14.068	GLASS - CAB WINDOW, HEATED TINTED WINDSHIELD ONLY, TINTED SIDE AND REAR WINDOW		
14.069	DIAGONAL GRAB HANDLE ON INSIDE DRIVER'S DOOR		
14.070	GRILLE - HOOD AIR INTAKE, GRILLE PAINTED GRAY		
14.071	HOOD AND FENDERS, COMPOSITE MATERIAL - TILTABLE WITH INSPECTION HATCH		
14.072	HOOD INSULATION		
14.073	PAINTED HOOD LATCHES		
14.074	HORN - AIR, (2) MACK RECTANGULAR SINGLE TRUMPET, CHROME PLATED STEEL WITH SNOW SHIELDS		

		COMPLY	
		YES	NO
14.075	HORN - ELECTRIC, DUAL TONE (TWO HORNS)		
14.076	IDENTIFICATION/CLEARANCE LIGHTS, (5) GROTE LED LAMPS		
14.077	IN-DASH STORAGE, WITH O UPPER STORAGE OPTION		
14.078	INSTRUMENT CLUSTER DISPLAY, CO-PILOT DRIVER DISPLAY (ENHANCED 4.5" DIAGONAL GRAPHIC LCD DISPLAY WITH 4-BUTTON STALK CONTROL) (INCLUDES GUARDDOG ROUTINE MAINTENANCE MONITORING)		
14.079	INSTRUMENT PANEL, BRUSHED METALLIC		
14.080	INTERIOR TRIM (HIGH LEVEL CHAMPION - SLATE GRAY) Vinyl headliner, cloth/vinyl seat trim, tire tread fabric pattern on doors and seats, 3 overhead storage compartments WITH nets, rear panel with storage pouch, polyurethane floor mat, brushed nickel instrument panel with chrome gauge bezels, adjustable tilt/telescoping steering column, power window and door locks both sides, 2 spoke leather grip, bright chrome spokes, brushed chrome Mack horn cap, 2 general overhead lights, 1 driver overhead light & 1 map non-glare overhead light, 2 12V power sources, RH storage compartment, seat belt retractors, 2 coat hangers, 2 cup holders, 2 trash bag hooks, RH door peep window, lighted door mounted map pocket lights.		
14.081	CHASSIS KEYED AT RANDOM – 2 KEYS		
14.082	MIRRORS - EXTERIOR, AERODYNAMIC MOTO MIRROR PACKAGE: RH/LH MOTORIZED & HEATED		
14.083	MIRRORS - CONVEX TYPE, BRIGHT FINISH, LH & RH 8.0" DIA HEATED; MOUNTED BELOW LOWER ARM OF WEST COAST MIRROR		
14.084	OVERHEAD CONSOLE, (2) STORAGE COMPARTMENTS AND NET RETAINERS WITH CENTER MOUNTING FOR CB PROVISIONS		
14.085	AM/FM STEREO CD WITH WEATHERBAND		
14.086	RADIO ANTENNA, CAB MOUNTED BEHIND LH DOOR		
14.087	CB RADIO MOUNTING REINFORCEMENT IN HEADER CONSOLE		
14.088	EMERGENCY TRIANGLE KIT PARALLEL TO INSIDE SURFACE OF RIDERS SEAT BASE		
14.089	SEAT - DRIVER, AIR-NATIONAL 2000 (HI-BACK) SINGLE CHAMBER AIR LUMBAR, 2 POSITION FRONT CUSHION ADJ.		
14.090	SEAT - RIDER, MACK FIXED (HI-BACK) NON-SUSPENSION		
14.091	SEAT ARM RESTS, INBOARD MOUNTED ARM REST, DRIVER'S SEAT ONLY		

		COMPLY	
		YES	NO
14.092	SEAT COVERING, CLOTH WITH VINYL TRIM DRIVER AND RIDER SEATS		
14.093	SEAT, DUST COVER FOR DRIVER'S SEAT		
14.094	SEAT BELTS/RETRACTORS, LAP AND SHOULDER WITH CAB MOUNTED SHOULDER BELT WITH ADJUSTABLE D-RING FOR DRIVER & RIDER SEATS		
14.095	WITH O ROOF VENT VENTILATION		
14.096	STEERING COLUMN, ADJUSTABLE TILT TELESCOPE		
14.097	STEERING WHEEL, TWO SPOKE LEATHER GRIP BRIGHT CHROME SPOKES, BRUSHED CHROME MACK HORN CAP		
14.098	STORAGE POUCH REAR		
14.099	SUN VISOR, EXTERIOR, FIBERGLASS (CAB COLOR)		
14.100	SUN VISOR - INTERIOR, BOTH SIDES (PADDED VINYL)		
14.101	WINDOW CONTROLS, POWER WINDOW LIFT WITH ELECTRIC DOOR LOCK, LH & RH		
14.102	WINDSHIELD WIPERS, 2 SPEED ELECTRIC MOTOR WITH INTERMITTENT FEATURE		
14.103	FRAME EQUIPMENT/FUEL TANKS		
14.104	BUMPER - FRONT, EXT.-SWEPT BACK-STEEL CHANNEL 122.5"/3112 mm BBC		
14.105	CROSSMEMBERS, BOC AND INTERMEDIATE CROSSMEMBERS, HD I-BEAM		
14.106	CROSSMEMBER (BEHIND REAR AXLE), STEEL SINGLE CHANNEL (1) WITH AF of 71" to 129".		
14.107	WITHOUT FIFTH WHEEL MOUNTING ANGLES		
14.108	FRONT FRAME EXTENSION, 20" FOR SNOW PLOW MOUNT (CONT' PARENT RAIL) WITH TILT WITH INSPECTION HATCH TYPE HOOD WITH SWEPT-BACK STEEL BUMPER		
14.109	TOWING DEVICE - FRONT, HOOKS		
14.110	FUEL TANK - LH, 88 GALLON (333 L) ALUMINUM, SLEEVED D-SHAPED		
14.111	FUEL TANK - RH, OMIT RH STANDARD		
14.112	6.6 GALLON (25 L) 22" DIAMETER TANK LEFT SIDE FRAME MTD		
14.113	WITHOUT DEF TANK COVER		
14.114	WITH O FUEL LINE OPTION		
14.115	FRONT AXLE/EQUIPMENT/TIRES		

		COMPLY	
		YES	NO
14.116	FRONT AXLE, 20000# (9072kg) MACK FXL20 WIDE PIVOT CENTER		
14.117	TIRES BRAND/TYPE - FRONT, GOODYEAR - TUBELESS RADIAL PLY, (2) 425/65R22.5 20 L G286A SS (ALL POS)		
14.118	WHEELS - FRONT, STEEL DISC (10-HOLE)		
14.119	(2) 22.5x12.25 HAYES LEMMERZ 10-HOLE HUB PILOTED (11 1/4"/286mm BC)		
14.120	WHEELS - POLISHED (FRONT), W/O FRONT DISC WHEEL BRIGHT FINISH		
14.121	HUBS - FRONT, FERROUS		
14.122	BRAKES - FRONT, MERITOR "S" CAM TYPE 16.5" x 6" Q+		
14.123	BRAKE DRUMS - FRONT, CAST OUTBOARD MOUNTED		
14.124	BRAKE LINING, MERITOR R403 BRAKE LINING		
14.125	DUST SHIELDS - FRONT BRAKE, FURNISH		
14.126	FAG SCHAEFFLER, FRONT HUB OIL SEAL		
14.127	SHOCK ABSORBERS, FRONT		
14.128	SLACK ADJUSTERS - FRONT, GUNITE 2000 - AUTOMATIC		
14.129	SPRINGS - FRONT, MACK MULTILEAF 20000# (9072kg) GROUND LOAD RATING		
14.130	STEERING, SHEPPARD SD110 + HD94		
14.131	REAR AXLE/EQUIPMENT/TIRES/RATIOS		
14.132	REAR AXLE/SUSPENSION, 52000# (23600kg) MACK S522 CAST DUCTILE		
14.133	IRON HOUSING, SS52 MACK MULTILEAF 52000#		
14.134	TIRES BRAND/TYPE - REAR, GOODYEAR - TUBELESS RADIAL PLY, (8) 12R22.5 16 H G124 (TRACTION)		
14.135	CARRIER/RATIO - REAR AXLE, CRDP150/151, 5.66 RATIO		
14.136	WHEELS - REAR, STEEL DISC (10 HOLE)		
14.137	(8) 22.5x9.00 (228 mm) HAYES LEMMERZ 10-HOLE HUB PILOTED (11 1/4"/286 mm BC)(FIVE HAND HOLE)		
14.138	HUBS - REAR, FERROUS		
14.139	BRAKES - REAR, MERITOR HEAVY DUTY "S" CAM 16.5"x7" Q+		
14.140	BRAKE DRUMS - REAR, CAST OUTBOARD MOUNTED		
14.141	BRAKE LINING, ABEX 931-162 (MERITOR R403)		
14.142	DUST SHIELDS - REAR BRAKE, FURNISH		
14.143	OIL SEALS, CHICAGO RAWHIDE (SCOTSEAL)		
14.144	POWER DIVIDER LOCKOUT WITH WARNING LIGHT AND BUZZER (INCLUDES IN CAB MANUAL AIR VALVE)		

		COMPLY	
		YES	NO
14.145	SLACK ADJUSTERS - REAR, GUNITE 2000 - AUTOMATIC		
14.146	SUSPENSION - AXLE SPACING, 55" AXLE SPACING (BOGIE WHEELBASE)		
14.147	SPRING BRAKE CHAMBERS - VENDOR, MGM MODEL TR-T (TAMPER RESISTANT)		
14.148	SPRING BRAKE CHAMBERS, TYPE 30/30 REAR		
14.149	BRONZE TRUNNION BUSHING		
14.150	W/O PROTECTIVE NYLON SPACER BETWEEN DISCS WHEEL TO DRUM		
14.151	FRAME/WHEELBASE/PLATFORM		
14.152	FRAME RAILS, 11.811" x 3.54" x .44" (300 x 90 x 11.1 mm) STEEL Section Modulus: 32.7 cu in/RBM 3,920,000 in lbs per rail For Full IC reinforcement		
14.153	WHEELBASE, 264" (6710 mm) WB 177" CA (4487 mm)		
14.154	PLATFORM, 262" LP (6652 mm) 86" AF (2180 mm) USED WITH 264" WB		
14.155	FRAME REINFORCEMENT - INSIDE, 5MM STEEL CHANNEL USED WITH 233"-272" LP		
14.156	AIR/BRAKE		
14.157	AIR CONTROL VALVES - VENDOR, MERITOR/WABCO SWITCHES AND VALVES WHERE POSSIBLE		
14.158	AIR DRYER, BENDIX HEATED AIR DRYER, AD-IP WITH COALESCING OIL FILTER		
14.159	(1) UNDER BATTERY BOX, REMAINING BETWEEN FRAME RAILS		
14.160	AIR RESERVOIRS, ALUMINUM, STANDARD FINISH		
14.161	ANTI-LOCK BRAKE SYSTEM, MERITOR WABCO ABS WITH AUTO TRACTION CONTROL		
14.162	AUTOMATIC DRAIN VALVE HEATED		
14.163	BRAKE CONTROL VALVE SYSTEM, SINGLE VALVE SYSTEM		
14.164	HAND CONTROL VALVE FOR REAR SERVICE BRAKES		
14.165	MANUAL DRAIN VALVE LANYARD, LANYARD CONTROL ON ALL TANKS WITH MANUAL DRAIN VALVES		
14.166	TRAILER CONNECTIONS		
14.167	TRAILER AIR CONNECTIONS, OMIT TRAILER AIR BRAKE CONNECTIONS		
14.168	WITHOUT HOSE TENDER		

		COMPLY	
		YES	NO
14.169	TRAILER ELECTRICAL RECEPTACLE, WITHOUT TRAILER ELECTRICAL RECEPTACLE		
14.170	OMIT TRAILER CONNECTORS HOLDER		
14.171	ELECTRICAL		
14.172	BATTERY BOX(ES), STEEL		
14.173	BATTERY BOX COVERS, POLISHED ALUMINUM		
14.174	BATTERY BOX - MOUNTING, RIGHT HAND UNDER CAB		
14.175	ELECTRIC CIRCUIT PROTECTION PACKAGE, ALL CIRCUITS FUSE/BREAKER PROTECTED WATERPROOF ELECTRICAL CONNECTIONS SPRAYED WITH PROTECTIVE COATING		
14.176	"BODY LINK" II WITH CAB FLOOR PASS THRU HOLE/RUBBER BOOT		
14.177	JUMP START CONNECTIONS, KALAS TERMINALS		
14.178	REAR LIGHTING, LED TYPE TAIL LAMP MODULE		
14.179	SIGNAL FLASHER TYPE, TRANSISTORIZED TURN SIGNAL, FEDERAL MOGUL #250		
14.180	WORK LIGHTS, RH/LH LED WORK LIGHT (STEPS & GROUND) ON BOTH SIDES TRUCK		
14.181	PAINT		
14.182	PAINT - CAB EXTERIOR, SINGLE COLOR, Green BC/CC [PPG: L3703]		
14.183	PAINT - CAB, URETHANE CLEAR COAT		
14.184	PAINT - CHASSIS RUNNING GEAR, MACK BLACK (URETHANE) PAINT - BUMPER, SAME AS CHASSIS RUNNING GEAR		
14.185	PAINT - FRONT SPOKE WHEELS, WITHOUT OPTIONAL SPOKE WHEEL PAINT		
14.186	WITHOUT OPTIONAL SPOKE WHEEL PAINT		
14.187	FRONT WHEELS PRE-FINISHED WHITE		
14.188	REAR WHEELS PRE-FINISHED WHITE		
14.189	PAINT PROCESS CODES		
14.190	PAINT PROCESS - BUMPER, SAME COLOR AS CHASSIS RUNNING GEAR (5ZB-A1 X)		
14.191	PAINT PROCESS - CHASSIS, CHASSIS RUNNING GEAR - STD COLOR (MACK BLACK) (6AB-Z1X)		
14.192	PAINT PROCESS - FUEL TANK, WITH O PAINT FOR FUEL TANK (7HB-Z1X)		
14.193	WITH O CUSTOM PAINT FOR HUB&DRUM/SPOKES (5YB-		

		COMPLY	
		YES	NO
	Z1X)		
14.194	WITH O CUSTOM PAINTED FRONT/REAR RIM/WHEEL (6BB-Z1X)		
14.195	PTO/SPECIALTY/ADDITIONAL EQUIPMENT		
14.196	PTO - REAR ENGINE (REPTO), WITHOUT REAR ENGINE POWER TAKE OFF		
14.197	PTO - CONTROL, PTO SWITCH AND LIGHT WITH WIRING AND PIPING N/A WITH RMPTO (FACTORY INSTALLED)		
14.198	TORQUE CONVERTER TC541		
14.199	4"X9" RH DOOR MOUNTED DOWN VIEW MIRROR		
14.200	V-MAC IV PROGRAMMABLE PARAMETERS		
14.201	CRUISE CONTROL SETTINGS WITH ALLISON TRANS		
14.202	CRUISE CONTROL MAX SET SPEED (MPH) 65 mph		
14.203	CRUISE CONTROL MIN SET SPEED (MPH) 20 mph		
14.204	CRUISE CONTROL AUTORESUME WITH CLUTCH Omit		
14.205	CRUISE'N BRAKE ENGAGEMENT DELAY (MPH) 3 mph DATAMAX SETTING FOR USE WITH INSTRUMENT CLUSTER DISPLAY (C0J002)		
14.206	ENGINE OVERSPEED COMPANY LIMIT (RPM) 2200 rpm		
14.207	FUELED ENGINE OVERSPEED COMPANY LIMIT (RPM) 2100 rpm		
14.208	VEHICLE OVERSPEED COMPANY LIMIT (MPH) 75 mph		
14.209	FUELED VEHICLE OVERSPEED COMPANY LIMIT (MPH) 70 mph		
14.210	IDLE LOGGING DELAY (MIN) 2		
14.211	PERIODIC TRIP HOUR OF DAY Midnight		
14.212	PERIODIC TRIP DAY OF WEEK 0 (disable)		
14.213	PERIODIC TRIP DAY OF MONTH 1		
14.214	DRL OVERRIDE SWITCH SPEED THRESHOLD (MPH) 00		
14.215	DRL OVERRIDE SWITCH OFF TIME (MIN) 00 mph C420001		
14.216	CO-PILOT FLEET TRIP PROGRAMMING ACCESS Fleet Level		
14.217	FLEET MANAGEMENT VIA CO-PILOT Omit		
14.218	DEL MESSAGES CO-PILOT ACTIVATION Omit		
14.219	EHT MAX ENGINE SET SPEED (RPM) 2100 rpm		
14.220	EHT MIN ENGINE SET SPEED (RPM) 500 rpm		
14.221	EHT VEHICLE SPEED RANGE LIMIT (MPH) 10 mph		
14.222	EHT RAMP RATE (RPM/Sec)		
14.223	EHT SINGLE SPEED CONTROL ACTIVATION Omit		

		COMPLY	
		YES	NO
14.224	EHT SINGLE SPEED CONTROL SET SPEED (RPM) 1000 rpm		
14.225	EHT JUMP-TO-MIN SET SPEED Omit		
14.226	ENGINE PROTECTION - OIL PRESSURE SHUTDOWN Furnish		
14.227	ENGINE PROTECTION - COOLANT LEVEL SHUTDOWN Omit		
14.228	ENGINE PROTECTION - COOLANT TEMP SHUTDOWN Furnish		
14.229	ENGINE PROTECTION - ENGINE OIL TEMP SHUTDOWN Furnish		
14.230	ENGINE PROTECTION TRANS OIL TEMP SHUTDOWN Furnish FUEL ECONOMY INCENTIVE FOR USE WITH INSTRUMENT CLUSTER		
14.231	FEI PENALTY TARGET FUEL ECONOMY No Driver Incentive		
14.232	FEI PENALTY TARGET FUEL ECONOMY (MPG) 5.0		
14.233	FEI PENALTY VEHICLE SPEED DECREASE (MPH) 3 mph		
14.234	FEI REWARD TARGET FUEL ECONOMY (MPG) 7.0		
14.235	FEI REWARD VEHICLE SPEED INCREASE (MPH) 3 mph		
14.236	FEI DISTANCE CALCULATION INTERVAL (Miles) 50		
14.237	GOVERNOR TYPE Min-Max Governor		
14.238	ENGINE HIGH IDLE SPEED IN UPPER GEARS 2100		
14.239	ENGINE LOW IDLE SET SPEED (RPM) 650 rpm		
14.240	DRIVER LOW IDLE ADJUST FEATURE ACTIVATION Omit		
14.241	SMART IDLE FEATURE ACTIVATION Omit		
14.242	SMART IDLE ELEVATED IDLE RPM TIME (MINS) 10		
14.243	IDLE COOLDOWN FEATURE ACTIVATION Omit		
14.244	IDLE SHUTDOWN FEATURE ACTIVATION Furnish		
14.245	IDLE SHUTDOWN TIME, TURNED OFF		
14.246	IDLE SHUTDOWN WARNING TIME (SECS) 30		
14.247	IDLE SHUTDOWN WARM-UP TEMPERATURE (DEG F) 100		
14.248	IDLE SHUTDOWN WARM-UP TIMER (MINS) 5		
14.249	IDLE S/D OVERRIDE WITH EHT Omit		
14.250	IDLE S/D OVERRIDE WITH PTO Furnish		
14.251	IDLE S/D OVERRIDE WITH ENGINE LOAD Furnish		
14.252	MAINTENANCE MONITOR FEATURE ACTIVATION Furnish		
14.253	MAINTENANCE MONITOR OEM DEFAULT INTERVALS MP Vocational		
14.254	MAINTENANCE DUE WARNING PERCENT 90		
14.255	PTO 1 MAX ENGINE SET SPEED (RPM) 2100 rpm		
14.256	PTO 1 MIN ENGINE SET SPEED (RPM) 600 rpm		
14.257	PTO 1 VEHICLE SPEED RANGE LIMIT (MPH) 10 mph		

		COMPLY	
		YES	NO
14.258	PTO 1 RAMP RATE (RPM/Sec) 100		
14.259	PTO 1 SINGLE SPEED CONTROL ACTIVATION Omit		
14.260	PTO 1 SINGLE SPEED CONTROL SET SPEED (RPM) 1000 rpm		
14.261	PTO 1 SINGLE SPEED CONTROL AUTOSET Omit		
14.262	PTO 1 JUMP-TO-MIN SET SPEED Omit		
14.263	PTO 1 VEHICLE LIMITING SPEED (MPH) 60 mph		
14.264	PTO 2 MAX ENGINE SET SPEED (RPM) 2100 rpm		
14.265	PTO 2 MIN ENGINE SET SPEED (RPM) 600 rpm		
14.266	PTO 2 VEHICLE SPEED RANGE LIMIT (MPH) 10 mph		
14.267	PTO 2 RAMP RATE (RPM/Sec) 100		
14.268	PTO 2 SINGLE SPEED CONTROL ACTIVATION Omit		
14.269	PTO 2 SINGLE SPEED CONTROL SET SPEED (RPM) 1000 rpm		
14.270	PTO 2 SINGLE SPEED CONTROL AUTOSET Omit		
14.271	PTO 2 JUMP-TO-MIN SET SPEED Omit		
14.272	PTO 2 VEHICLE LIMITING SPEED (MPH) 60 mph		
14.273	SPEED SENSOR TAMPER DETECTION SYSTEM ACTIVATION Furnish		
14.274	SPEED SENSOR TAMPER DETECTION TORQUE LIMIT (%) 50 TRANSMISSION SETTINGS, TRANSMISSION SETTINGS FOR USE WITH O EATON AUTO/ULTRASHIFT		
14.275	EATON AUTOSHIFT/ULTRASHIFT SHIFT MODE Omit		
14.276	CUSTOMER VEHICLE LIMITING SPEED (MPH) 65 mph		
14.277	LGVLS FEATURE ACTIVATION Omit		
14.278	LOWER GEAR VEHICLE LIMITING SPEED (MPH) 65 mph		
14.279	DEALER INFORMATION		
14.280	ENGINE WARRANTY, 2YR/250,000 MILES ENGINE WARRANTY		
14.281	MANUALS, PEDIGREED PROTECTION PLAN TECH. SERVICE MANUAL PROVIDED, PILOT INSPECTION, WITHOUT PILOT INSPECTION ALLISON EXTENDED WARRANTY 5 YEARS, TWO (2) 4" SPOT MIRRORS, RUBBER FLOOR MATS. FILTER KIT AS SPECIFIED IN BID(2 EACH FILTERS ON VEHICLE CHASSIS AND BACK UNIT), PARTS MANUAL, SERVICE MANUALS. CAB MOUNTED COMPUTER STAND TO BE INSTALLED BETWEEN DRIVER AND PASSENGER SEATS, NOT TO INTERFERE WITH SHIFTER OR OTHER INTERIOR FUNCTIONS.		

		COMPLY	
		YES	NO
14.282	ONE (1) FRONT AND TWO (2) REAR SPAR TIRES AND WHEELS MACK ENGINE EXTENDED WARRANY 5 YEARS OR 200,000 MILES MACK BASE VEHICLE EXTENDED WARRANTY PLAN B 3 YEARS OR 150,000 MILES		
	Exceptions:		
	15.0 PAINT		
15.01	The body shall be painted "wet on wet".		
15.02	Body shall be painted in the Town of Bedford's color of "Town of Bedford Green-DuPont # P9014 / #L3703".		
15.03	Chassis cab shall be painted in the Town of Bedford's color of "Town of Bedford Green-DuPont # P9014 / #L3703".		
	Exceptions:		
	16.0 WARRANTY		
16.01	Bidder shall attach a copy of manufacturer's warranty and all drawings, certifications and technical information for model being bid.		
16.02	The Town of Bedford reserves the right to request a demonstration of specific model bid prior to award of contract. Unit demonstrated shall have all systems and equipment required by the bid specifications, without exception.		
16.03	Manufacturer's standard warranty shall be not less than one (1) year on entire vehicle, including all parts and labor.		
16.04	The truck cab and chassis, with all components, shall have a factory warranty of one (1) year including all parts and labor. EXTENDED WARRANTY: ENGINE: 5 YEAR, 200,000 MILES COMPLETE CHASSIS: 3 YEAR 150,000 MILES COMPLETE TOWING: 24 MONTHS 250,000 MILES FREE TOWING FOR RELATED FAILURES		
16.05	Vactor 2100 Series: Module Warranty: 5th Year Parts and Labor shall be provided.		
16.06	Warranty for includes rodder pump, but not PD blower, auxiliary engine or any chassis part shall be provided.		
16.07	Vactor 2100 Series: Water Pump Warranty: 3rd Year Parts and Labor shall be provided.		

		COMPLY	
		YES	NO
16.08	Warranty does not include Seals and Check Valves, considered "WEAR" items shall be provided.		
16.09	Water tanks shall be warranted against cracking, distortion, oxidation, corrosion, full replacement to the original owner, including all parts and labor, for ten (10) years.		
16.10	The debris body shall be warranted against any failure in material workmanship, including all parts and labor for five (5) years. All warranty parts are to be F. O. B. the Town of Bedford and installed on the vehicle. Shipping and transportation charges shall be the absorbed by the bidder.		
	Exceptions:		
17.0 SERVICE AND TRAINING			
17.01	Vendors shall have a full parts and service facility within a reasonable distance from the Town of Bedford's garage. State location and distance.		
17.02	A qualified technician shall provide complete training to Town of Bedford's personnel at its garage. Training shall include safety, operation, maintenance and service.		
17.03	Trainer shall be a New Jersey or Federal Certified Safety Trainer or Certified Incident Safety Officer. Certification shall be submitted with bid. Failure to include certification will be grounds for rejection without further review. No exception will be allowed to this critical safety requirement.		
	Exceptions:		
18.0 DELIVERY			
18.01	Vehicle shall be delivered F.O.B. the Town of Bedford in first class operating condition.		
18.02	Acceptance shall be subject to the inspection and approval of the Town of Bedford.		
18.03	Bidder shall state delivery time after receipt of order:		
	Exceptions:		

PROPOSAL FORM

TOWN OF BEDFORD

**TO COMMISSIONER OF PUBLIC WORKS
TOWN OF BEDFORD
301 ADAMS STREET
BEDFORD HILLS, N.Y. 10507**

The undersigned hereby declares that they have carefully examined the requirements of the specifications contained herein, and propose to furnish and deliver to the Town of Bedford the apparatus listed below.

**ONE (1) 2011 LATEST NEW MODEL
12 YARD VACTOR MODEL 2112 COMBINATION SEWER
CLEANER
AND VACUUM MAN HOLE CLEANER
MOUNTED ON A HEAVY DUTY 2011 MACK GU713 TRUCK
CHASSIS**

BODY MAKE: _____ MODEL: _____

CHASSIS MAKE: _____ MODEL: _____

PURCHASE PRICE: @ \$ _____ Total: \$ _____

(In Words) _____

SIGNED: _____ DATE: _____

BIDDER: _____

ADDRESS: _____

NON-COLLUSIVE BIDDING CERTIFICATION

Made pursuant to Section 103-d of the General Municipal Law of the State of New York as amended by the Laws of 1966.

- (a) By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of his knowledge and belief:
- (1) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;
 - (2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to the opening, directly or indirectly, to any other bidder or to any competitor; and
 - (3) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.
- (b) A bid shall not be considered for award nor shall any award be made where (a) (1) (2) and (3) , above, have not been complied with; provided, however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where (a) (1) (2) and (3) , above, have not been complied with, the bid shall not be considered for award nor shall any award be made unless the head of the purchasing unit of the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

Date

Legal Name of Person, Firm or Corporation

Seal of Corporation: _____

Business Address of Person, Firm or Corporation

by: _____

Signature and Title