

**Town of Orange CT Invitation to Bid
Attachment A
Chassis Specifications**

SECTION I. GENERAL		Yes	No	Other
Gross Weight:	48,000 pounds or greater	_____	_____	_____
Cab Dimensions:	Bumper to Back of Cab 112"	_____	_____	_____
Wheelbase:	Body to properly distribute weight	_____	_____	_____
Axle to end of frame:	60 inch (maximum) center of axle to end of frame	_____	_____	_____
Cab to Axle:	96 inch (maximum) back of cab to center of axle	_____	_____	_____
Axle front:	18,000 pound capacity	_____	_____	_____
Axle rear:	30,000 pound capacity with rear axle ratio of 60-65 MPH	_____	_____	_____
	6.12 Magnetic drain plugs	_____	_____	_____
	Double reduction gearing (no exception)	_____	_____	_____
	Synthetic Lube	_____	_____	_____
Bidder to specify rear axle make and model: _____				
Front axle equipment:	Sheppard SD 110 power steering	_____	_____	_____
	Front wheel seals	_____	_____	_____
	Front Shock absorbers	_____	_____	_____
	18,000 pounds of multi leaf suspension	_____	_____	_____
	Five hand hole severe duty	_____	_____	_____
	Hubs ferrous	_____	_____	_____
	Brake drums cast outboard mounted	_____	_____	_____
Rear axle equipment:	30,000 pounds with anti-sway, multi-leaf, HD springs	_____	_____	_____
	NO taper leaf or radius rod type suspensions	_____	_____	_____
	Front and rear dust shields	_____	_____	_____
	Locking main differential with dash switch	_____	_____	_____
	Two hand hole hub piloted severe duty Spring	_____	_____	_____
	Chambers 36/36	_____	_____	_____
Brakes/service:	Full air with anti-lock feature	_____	_____	_____
	Traction control added to ABS	_____	_____	_____
	All lines to be Kevlar reinforced nylon	_____	_____	_____
	"S" cam front and rear breaks	_____	_____	_____
	Front brakes 16.5 x 6" minimum	_____	_____	_____
	Meritor R301 Rear brakes 16.5 x 7"	_____	_____	_____
	Minimum Auto slack adjusters	_____	_____	_____
	Bendix AD-IP system saver air dryer	_____	_____	_____
Driveline:	18 MXL HD drive-shafts with coated splines	_____	_____	_____

Dump Truck Chassis Specifications

Yes No Other

SECTION II. CAB Please note that Cab Dimensions and Safety Features are critical to specifications)

Conventional type	_____	_____	_____
Heavy duty welded galvanized steel (No Aluminum Cabs)	_____	_____	_____
Severe duty cab mountings and brackets to include interior of Doors	_____	_____	_____
Two (2) air bag type suspension with shocks on one each side of frame rail mounted to cab	_____	_____	_____
Custom interior to include padded doors, headliner and rear panel	_____	_____	_____
Five year factory rust proofed warranty cab	_____	_____	_____
Dual air intake Brite finish	_____	_____	_____
4" fender extensions	_____	_____	_____
(3) Compartment overhead storage with nets	_____	_____	_____
Center rear panel storage compartment	_____	_____	_____
Two (2) cup holders center console	_____	_____	_____
Stainless Steel Exterior sun visor	_____	_____	_____
Single air horn roof mounted	_____	_____	_____
City horns	_____	_____	_____
Factory installed heated windshield	_____	_____	_____
LED Marker Lamps	_____	_____	_____
Two speed windshield wipers with intermittent feature	_____	_____	_____
Single vertical exhaust to include vertical DPF, mounted under cab passenger Side SCR system, frame mounting	_____	_____	_____
Air suspension driver's seat with high back and arm rest	_____	_____	_____
Two man passenger seat with tool box (bench style) – Bostrom 915	_____	_____	_____
Steering Wheel Infinite adjustable steering tilt/telescopic	_____	_____	_____
Integral air conditioning	_____	_____	_____
AM/FM CD with Bluetooth and USB port radio with weather band	_____	_____	_____
(3)Overhead storage mounted 2-12 volt power source, CB. Hot Jack to include netting	_____	_____	_____
Width of cab interior door to door 72 inch minimum	_____	_____	_____
31 inch door opening minimum	_____	_____	_____
Door entry from floor to door molding 50 inches	_____	_____	_____
Interior front fire wall to rear of interior cab 57"	_____	_____	_____
Replaceable filter cab filtration system	_____	_____	_____
Automatic hood latch when hood is tilted to forward position	_____	_____	_____
Single rear window 48 inches wide x 19 inches height	_____	_____	_____
Inside/outside air intake with dash mounted switch	_____	_____	_____
Passenger door visibility window	_____	_____	_____
Mirrors, bright finish, LH & RH 8" DIA. Heated convex, power remote	_____	_____	_____
Roof mounted three way air vent (factory installed)	_____	_____	_____
Diagonal grab handle on inside of driver's door Integral mirror mounted	_____	_____	_____
Suspended brake and accelerator pedals	_____	_____	_____
(3) Interior dome lights to include one driver two general illumination and one passenger map reading light	_____	_____	_____
Windshield Washer Reservoir shall be mounted behind Cab passenger Side for easy access. Frame mounted washer reservoirs will not be accepted.	_____	_____	_____

Dump Truck Chassis Specifications	Yes	No	Other
Full warning dash lamp system central high mounted LCD with 8 standard gauges and 24 indicator lamps	_____	_____	_____
Maintenance due indicator, engine hour, ambient temperature	_____	_____	_____
Sweet spot indicator	_____	_____	_____
Tilt fiberglass hood with plow on, with heavy duty hinges	_____	_____	_____
Engine message center display driver information	_____	_____	_____
Door arm rest pads	_____	_____	_____
Gauge cluster pyrometer, transmission temperature, oil temperature	_____	_____	_____
Molded Plastic Door panels will not be accepted	_____	_____	_____
Frame:			
120,000 PSI steel, all Huck bolted constructed	_____	_____	_____
Full Channel Double channel 3,580,000 RBM minimum	_____	_____	_____
20" front frame extension to accommodate front mounted PTO/plow frame, no bolt-on extensions	_____	_____	_____
Rust preventive process to be applied between Frame Rails	_____	_____	_____
Stationary steel Brite Finish frame and radiator mounted grill	_____	_____	_____
Protector (no plastic grills)	_____	_____	_____
Stationary radiator mounted grill: hood must tilt over plow	_____	_____	_____
Hitch without tilting plow	_____	_____	_____
Crossmembers:			
Heavy I-beam behind cab and intermediates	_____	_____	_____
Steel heavy duty cross-members	_____	_____	_____
<u>SECTION III. ENGINE : US 17 GHG Compliant No Exception</u>			
Turbo-charged diesel 350 peak horse power at 1150-1900 RPM	_____	_____	_____
Minimum 9.0L liter	_____	_____	_____
1,150 pound foot torque at 1200 RPM minimum	_____	_____	_____
High pressure Common rail Fuel System	_____	_____	_____
2,000 bar pressure capability for fuel economy	_____	_____	_____
Single overhead cam with roller followers and 4 valve per cylinder	_____	_____	_____
Hand primer pump for fuel system	_____	_____	_____
Borg Warner on/off fan	_____	_____	_____
Electric Modules to monitor fuel timing, coolant temperature, coolant level and oil pressure.	_____	_____	_____
Electric module shall monitor engine components and separate module to monitor cab controls	_____	_____	_____
Single poly "V" belt with automatic tensioner	_____	_____	_____
Spin-on fuel filters	_____	_____	_____
Spin-on coolant filter	_____	_____	_____
Water filter and two full flow oil filters	_____	_____	_____
Jacobs Engine Brake (No Substitutes)	_____	_____	_____

Dump Truck Chassis Specifications	Yes	No	Other
Single variable geometry turbo	_____	_____	_____
Diesel particulate filter vertical right hand side under cab	_____	_____	_____
Include exhaust after treatment system, exhaust after treatment system with filter ceramic catalyzed-SCR system mounted on Right hand frame	_____	_____	_____
No horizontal mufflers with cab mounted exhaust tail pipes	_____	_____	_____
120 volt engine block heater with recessed receptacle mounted cab	_____	_____	_____
Chrome plug cover	_____	_____	_____
Alternator 130 Amp (24SI)	_____	_____	_____
Batteries (3) 12 volt 1,000/3,000 CCA	_____	_____	_____
Engine brake compression 400 HP brake power	_____	_____	_____
Davco heated fuel water separator # 382 to be mounted under hood or other protected area	_____	_____	_____
Silicone hoses radiator heater and engine draw	_____	_____	_____
Gear driven air compressor 18.7 CFM	_____	_____	_____
Maximum available cooling system	_____	_____	_____
40° coolant protection	_____	_____	_____
Engine must be 2017 or current EPA compliant	_____	_____	_____
Engine protection shutdown system to reduce power as condition worsens, Alert driver through yellow then red indicator warning lights	_____	_____	_____
Engine pre-heater	_____	_____	_____
Crankshaft Adapter 1350 series flange mount P.T.O. (No Exception)	_____	_____	_____
Corrosion-resistant oil pan	_____	_____	_____

BIDDER TO SPECIFY ENGINE MAKE AND MODEL _____

SECTION IV. FUEL TANKS

Single 66 gallon aluminum with wet sump mounted on bottom of driver's side	_____	_____	_____
Battery boxes mounted forward of fuel tanks	_____	_____	_____
Aluminum Air tanks mounted below battery boxes	_____	_____	_____
Battery Box Frame Mounted, Batteries shall not be mounted above Frame Rail under Cab.	_____	_____	_____

SECTION V. TIRES

Front 315/80R 22.5 20 (L) ply all position	_____	_____	_____
Rear 315/80R 22.5 20 (L) ply traction	_____	_____	_____
All tires to be mounted on Aluminum Level one Hub Pilot	_____	_____	_____
Rims with Dura Brite Coating on All Rims	_____	_____	_____

SECTION VI. TRANSMISSION

Allison 3000 RDS 6 speed	_____	_____	_____
Dash mounted gear selector	_____	_____	_____
Synthetic Transyd fluid	_____	_____	_____
Oil level sensor with shutdown feature	_____	_____	_____
Stainless Steel External oil cooler lines with internal filter	_____	_____	_____

SECTION VII. PAINT

Cab: Omaha Orange Per City specifications

Chassis: Black Urethane

SECTION VIII. MISCELLANEOUS REQUIREMENTS

Manual air drain valves for all tanks with pull cords

Body link with cab floor pass thru rubber boot

Electrical waterproof sprayed connections

Factory Work lamps LED RH/LH top of steps on both sides of truck

Stainless steel transmission coolant lines

Non-removable bug screen radiator mounted

Auto radio shut off when transmission is shifted into reverse (no exception)

Parts book and service manual digitally provided, with updates for not less

Spare tires, one front and one rear tire mounted on rims

SECTION IX. WARRANTY REQUIREMENTS

Dealership with Full Parts and Service location located within 25 miles of the Town Garage.

Free 24/7 customer Call In Assistance.

All extended warranty requirements must be registered and applied under vocational application

12 months free towing for warranty related failures

ENGINE

5 year/250,000 miles 100% parts and labor, no deductible: Cylinder Block castings, main bearings and bolts, cylinder head cap screws, crankshaft forging, con-rod cap screws, cap forging, con-red cap screws, valve lifters, manifold castings, flywheel housing, gear cover, engine gears, camshaft caps and bolts, intake manifold casting, main bearing bolts, oil pump drive and driven gears, timing plate cover and mounting plate, bumper to bumper for electronics

TRANSMISSION

5 year/500,000 miles 100% parts and labor

EXTENDED REAR AXLE

5 year/500,000 miles 100% parts and labor

Carrier housing, bearing covers, power divider, pinion housing, power divider cam, wedges and shift

Fork mating gear set, bull gear, differential gears and castings, bolts, nuts, inter-axle driveshaft, bearings, thrust washers, spacers and shims, clamp plates.

SECTION X. TRAINING

Two (2) hours onsite for drivers

Four (4) hours onsite for mechanic

