

**TOWN OF CHAPLIN  
BID SPECIFICATION REQUIREMENTS  
2018 OR LATER 37,780 DUMP TRUCK AND  
SNOW FIGHTING  
EQUIPMENT PACKAGE**

The Town of Chaplin is seeking bids for a new Department of Public Works 37,780 GVW Truck with snow removal equipment package. Attached are the detailed bid specifications. The Board of Selectmen reserves the right to reject any and all bids.

Bidders must fully complete the bid form contained in the Bid Specifications and any exceptions must be noted and explained on a separate attachment. Bidder's name and address shall be clearly stated on the bid envelope. No Bid Security required. No Bid Performance Security Required.

The successful bidder shall offer and extend the terms of this contract including pricing to other municipalities, towns and tax-exempt agencies in the State of Connecticut.

Delivery of completed unit is required as soon as possible and will be a major factor in awarding a contract. Bid proposal requirements shall include:

- 2018 or later chassis specifications.
- Dump body specifications.
- Snow removal equipment specifications.
- Delivery date of chassis to body company.
- Delivery date of completed unit to the Town of Chaplin.

Bidders may also include pricing and terms and conditions of:

- 2016 Model year chassis and/or subsequent model year chassis.
- Optional equipment required or specified by Town.
- Optional body per specifications by Town.
- Optional allied equipment per specifications by Town.

**Envelope Format:**

All bids must be submitted in a sealed envelope or package and addressed as below:

Town of Chaplin  
ATTN: William Rose, First Selectman  
"Dump Truck and Snow Fighting Package"  
195 Phoenixville Road  
Chaplin, CT 06235

**SEALED BID DUE DATE:** Sealed bids will be accepted up until 2:45 P.M. on Tuesday, July 31, 2018 at the Chaplin Town Hall and opened publicly at 3:00 P.M

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<b><u>2019 Model Year Chassis</u></b>	<b><u>YES</u></b>	<b><u>NO</u></b>
<b><u>Preferred Model:</u></b>		
<ul style="list-style-type: none"> <li>• International Model HV507 SFA</li> </ul>		
<b><u>Frame:</u></b>		
<ul style="list-style-type: none"> <li>• Heat Treated Alloy Steel 120,000 PSI Yield 10.866" X 3.622" X 0.433"</li> <li>• Front steel bumper.</li> <li>• Huck bolted frame assembly, suspension, and major components in lieu of threaded bolts.</li> <li>• Maximum GVW rating 42,000 lbs.</li> <li>• <u>No Frame Reinforcement Acceptable</u></li> </ul>		
<b><u>Front Axle:</u></b>		
<ul style="list-style-type: none"> <li>• Axle shall be a set forward design. If axle setback is greater than 36" then ground load capacity of front axle springs, wheels and tires must be increased by 2,000 lbs. This will increase GVW rating. Set Forward Axle (SFA) is preferred for proper weight distribution with front frame mounted equipment.</li> <li>• Axle shall be 16,000 lb. capacity. Dana Spicer Preferred Auxiliary front rubber springs required to provide improved stability with front mounted equipment. 16,000 lb. front parabolic taper leaf suspension shock absorbers.</li> <li>• Steering system shall include <u>dual</u> power gears. Sheppard M100/M80 is preferred.</li> </ul>		
<b><u>Brakes:</u></b>		
<ul style="list-style-type: none"> <li>• Dual air brake system meeting current FMVSS standards.</li> <li>• Dust shields front and rear.</li> <li>• Color and size coded brake lines.</li> <li>• Front and rear slack adjusters.</li> <li>• Front brakes 16.5"X7" with 24" brake chamber.</li> <li>• Rear brakes 16.5"X7" with 30" brake chamber.</li> <li>• ABS Bendix anti-lock brake system with Automatic Traction Control.</li> <li>• Wabco Air Dryer with heater. Air dryer located inside left rail back of cab.</li> <li>• Cummins air compressor: 18.7 CFM Capacity.</li> </ul>		
<b><u>Exhaust:</u></b>		
<ul style="list-style-type: none"> <li>• Single horizontal frame mounted after treatment device outside right frame rail under cab with vertical tail pipe and guard.</li> <li>• Engine exhaust brake.</li> </ul>		

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	YES	NO
<b>Electrical:</b>		
• 12-volt negative ground system.		
• 160-amp Delco 28 SI alternator.		
• Body Builder wiring connector back of cab at left frame with sealed connectors.		
• 3-1980CCA Total Maintenance Free Batteries		
• 2-way radio pre-wire with 20-amp protection. Includes 5 amp protected ignition wire and 10' coiled harness.		
• AM/FM radio with weather band.		
• Back-up alarm.		
• 3' Auxiliary harness for front plow lights and turn signals.		
• Electric horn.		
• Air horn – preferred not to be mounted on cab roof to avoid leaks.		
• Delco 38 MT Starter.		
• Manual reset circuit breakers mounted <u>inside cab</u> with trip indicators. Replaces all fuses except for 5-amp fuses. Corrosion protected.		
• Chassis electrical lines to be color-coded and continually numbered for trouble-shooting and technical identification.		
<b>Cab:</b>		
• Stationary chrome grille.		
• Front hood to be multi piece construction for ease of damage repair.		
• Tilt steering column.		
• 18" wheel diameter with cruise control switch mounted on steering wheel.		
• Air ride cab suspension.		
• All glass tinted.		
• All pedals, including throttle and brake, shall be suspended rather than floor mounted to reduce potential for material or loose items gathering underneath the pedal and impede operation and minimize corrosion penetration in cab floor.		
• Gauge cluster with engine oil pressure, water temperature, fuel level, tachometer, voltmeter, washer fluid level, odometer display for miles, trip meter, engine hours, trip hours and fault code readout.		
• IP cluster display on board diagnostics of fault codes.		
• Overhead storage console pockets with retainer nets on driver and passenger sides.		
• Warning system (audio and visual) for low fuel, low oil pressure, high engine coolant temperature, low battery voltage and low coolant level.		
• Test exterior lights – pre trip inspection will cycle all exterior lamps except back-up lights.		
• Headlights on with wipers.		
	<b>YES</b>	<b>NO</b>

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<ul style="list-style-type: none"><li>• Minimum 6 auxiliary switches for bodybuilder installed lights and components. 20-amp max per circuit, 80-amp max total, programmable through multiplex wiring.</li></ul>		
<ul style="list-style-type: none"><li>• Air suspension driver's seat with left-hand door mounted armrest, right-hand seat mounted armrest for driver.</li></ul>		
<ul style="list-style-type: none"><li>• Non-suspension passenger seat with right-hand door mounded armrest.</li></ul>		
<ul style="list-style-type: none"><li>• Dual cab mounted mirrors, rectangular 7.55" X 14.1" with integral convex mirrors. Both sides 102" wide; breakaway type; thermostatically controlled heads; including convex mirrors; clearance LED lights with black heads, brackets and arms.</li></ul>		
<ul style="list-style-type: none"><li>• Single piece heated windshield.</li></ul>		
<ul style="list-style-type: none"><li>• Air conditioner with heater and defroster. Refrigerant to be HFC-134A.</li></ul>		
<ul style="list-style-type: none"><li>• Fresh air filter.</li></ul>		
<ul style="list-style-type: none"><li>• Exterior tray lid over cowl to protect from ice and snow.</li></ul>		
<ul style="list-style-type: none"><li>• Interior cab height from highest position on cab floor to roof interior shall be a minimum 52" with preferred being 56".</li></ul>		
<ul style="list-style-type: none"><li>• Factory installed plow light switch with 3' harness for installation of plow lights. Daytime running lights work in plow light circuit.</li></ul>		
<b><u>Engine:</u></b>		
<ul style="list-style-type: none"><li>• Cummins L9 300 EPA2017, 300 HP @ 2000 RPM, 860 lb-ft Torque @ 1300 RPM, 2200 RPM Governed Speed, 300 Peak HP (Max)</li></ul>		
<ul style="list-style-type: none"><li>• Magnetic oil pan plug.</li></ul>		
<ul style="list-style-type: none"><li>• Fuel filter and engine mount fuel/water separator with water-in-fuel sensor.</li></ul>		
<ul style="list-style-type: none"><li>• Minus 40-degree anti-freeze extended life coolant.</li></ul>		
<ul style="list-style-type: none"><li>• Electronic cruise control integral to steering wheel.</li></ul>		
<ul style="list-style-type: none"><li>• Horton Drivemaster Polar Extreme 2-speed fan.</li></ul>		
<ul style="list-style-type: none"><li>• Aluminum cross flow radiator.</li></ul>		
<ul style="list-style-type: none"><li>• Single air cleaner element with snow valve</li></ul>		
<ul style="list-style-type: none"><li>• Engine block heater. 120 volt 1000 watt heater.</li></ul>		
<b><u>Transmission:</u></b>		
<ul style="list-style-type: none"><li>• Allison automatic 3500 RDS 6-speed wide ratio, double overdrive with PTO provision.</li></ul>		
<ul style="list-style-type: none"><li>• Oil cooler to be water to oil for Allison.</li></ul>		
<ul style="list-style-type: none"><li>• Column mounted Stalk Shifter transmission shift control.</li></ul>		
<ul style="list-style-type: none"><li>• Synthetic oil.</li></ul>		

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	<b><u>YES</u></b>	<b><u>NO</u></b>
<b><u>Rear Axle:</u></b>		
<ul style="list-style-type: none"> <li>• 26,000 lb. single seduction rear axle with R-wheel ends and driver controlled Locking Differential. Dana Spicer S26-190D preferred. Ratio to be 6.14.</li> </ul>		
<ul style="list-style-type: none"> <li>• 31,000 lb. rear suspension with 4500 lb. multileaf springs.</li> </ul>		
<ul style="list-style-type: none"> <li>• Synthetic rear axle lube (Em-Guard FE-75W-90).</li> </ul>		
<b><u>Fuel Tank:</u></b>		
<ul style="list-style-type: none"> <li>• Non-polished aluminum.</li> </ul>		
<ul style="list-style-type: none"> <li>• Minimum 70 gallons required.</li> </ul>		
<ul style="list-style-type: none"> <li>• Stainless steel fuel tank straps.</li> </ul>		
<b><u>Wheel and Tires:</u></b>		
<ul style="list-style-type: none"> <li>• Front wheels: 22.5” 5-hand hole, 10 stud, hub piloted, 9” DC rims with steel hubs.</li> </ul>		
<ul style="list-style-type: none"> <li>• Rear wheels: 22.5” 5-hand hole, 10 stud, hub piloted, 8.25” DC rims with .472” thick increased capacity disc and steel hubs.</li> </ul>		
<ul style="list-style-type: none"> <li>• Front tires: 12R22.5 G751 MSA Goodyear 16 ply.</li> </ul>		
<ul style="list-style-type: none"> <li>• Rear tires: 12R22.5 G177 Goodyear 16 ply.</li> </ul>		
<b><u>Paint:</u></b>		
<ul style="list-style-type: none"> <li>• Chassis.</li> </ul>		
<ul style="list-style-type: none"> <li>• Wheels – white.</li> </ul>		
<ul style="list-style-type: none"> <li>• Cab – fleet dark green.</li> </ul>		
<b><u>Warranty:</u></b>		
<ul style="list-style-type: none"> <li>• Base chassis.</li> </ul>		
<ul style="list-style-type: none"> <li>• Engine and engine electronics including injectors, turbo and water pump.</li> </ul>		
<ul style="list-style-type: none"> <li>• Body and allied equipment.</li> </ul>		
<b><u>Training:</u></b>		
<ul style="list-style-type: none"> <li>• Successful bidder shall provide:               <ol style="list-style-type: none"> <li>1. Minimum 4 hours driver training.</li> </ol> </li> </ul>		
<ol style="list-style-type: none"> <li>2. Minimum 20 hours individual instruction per mechanic on chassis diagnosis and troubleshooting for brakes and slack adjuster, air conditioning, power steering and electrical systems. This may be done on-line with courses approved by chassis and engine manufacturer.</li> </ol>		
<ol style="list-style-type: none"> <li>3. Minimum 20 hours individual instruction per mechanic on engine troubleshooting, basic knowledge and repair, diagnostic and after treatment (emission) training. This may be done on-line with courses approved by chassis and engine manufacturer.</li> </ol>		
<ol style="list-style-type: none"> <li>4. Minimum 2-year access (from date of receipt of chassis) to on-line service information. This shall include parts and service manuals, warranty history, technical publications, links to suppliers, wiring diagrams, diagnostic procedure and repair techniques and service locations.</li> </ol>		

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<b><u>BODY SPECIFICATIONS</u></b>		
<p><b>General:</b> It is the intent of these specifications to describe an equipment package to be mounted upon a new cab and chassis. The equipment shall consist of a Stainless Steel dump body with all related components – front mounted plow hitch and plow, full hydraulic system, and lighting. Vendor shall note in writing any deviations from the following specifications. Failure to do so may be just cause for rejection of vendor's bid as being non responsive.</p>		
	<b><u>YES</u></b>	<b><u>NO</u></b>
<b><u>Plow Frame and Plow:</u></b>		
<ul style="list-style-type: none"> <li>• Frame attachment is 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</li> </ul>		
<ul style="list-style-type: none"> <li>• Side plates 5/8" thick, reinforced and bolted as far back on the truck frame as possible.</li> </ul>		
<ul style="list-style-type: none"> <li>• Top cross members and vertical risers are constructed of 4"x 3"x 1/2" angle.</li> </ul>		
<ul style="list-style-type: none"> <li>• Bottom member is 15"x 4-1/2"x 1/2" C- Channel, inter laced with vertical members push centers and cylinder base mounting bracket are mounted to this member.</li> </ul>		
<ul style="list-style-type: none"> <li>• Lift yolk is constructed of 1/2" steel sides to form a frame, 1-1/8" tube for pivot and 1/4" plate for top. Yolk pivots on a 1" diameter full width bolt with castle nut and cotter pin.</li> </ul>		
<ul style="list-style-type: none"> <li>• Cylinder is double acting, 4" bore x 10" stroke.</li> </ul>		
<ul style="list-style-type: none"> <li>• Drive ears on 31" centers</li> </ul>		
<b><u>Hydraulic System:</u></b>		
<ul style="list-style-type: none"> <li>• The system is to be furnished and completely installed to power and control all hydraulic requirements satisfactorily, both independently and collectively.</li> </ul>		
<ul style="list-style-type: none"> <li>• Pump Rexroth with pressure test port (Aero-quip FD491002 HTMA) will be driven by an electric hot shift PTO off the automatic transmission and pump to be of sufficient size to operate all equipment.</li> </ul>		
<ul style="list-style-type: none"> <li>• Rexroth M4 valving to power the body rear dump-plow raise and plow angle-lever controls with stainless steel cables and sealed bonnets-locking lever for the rear dump. All valving shall be mounted in a stainless steel enclosure above the frame rails behind the cab.</li> </ul>		
	<b><u>YES</u></b>	<b><u>NO</u></b>
<ul style="list-style-type: none"> <li>• Custom lever stand with engraved plaque to identify lever functions.</li> </ul>		
<ul style="list-style-type: none"> <li>• Spreader functions controlled by a Compu-Spread model 520 ground speed control system. Piped to rear with stainless steel tubing to stainless steel bulk head mounted quick disconnect couplers.</li> </ul>		
<ul style="list-style-type: none"> <li>• Hydraulic pipes to deliver and return hydraulic oil from control valve to plow functions to be, integrated, modular <b><u>Stainless Steel tubing</u></b>, custom bent and mounted in cushion clamps. Not to obstruct normal maintenance items.</li> </ul>		
<ul style="list-style-type: none"> <li>• Hydraulic hose will only be utilized at flex points and will have swivel fittings on both ends for ease of replacement if necessary.</li> </ul>		
<b><u>Hydraulic Tank:</u></b>		

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<ul style="list-style-type: none"> <li>• 38-gallon capacity, with low oil sender, breather cap, and sight/temp gauge.</li> </ul>		
<ul style="list-style-type: none"> <li>• Tank to be mounted above the frame rails behind the cab.</li> </ul>		
<ul style="list-style-type: none"> <li>• Shut off valves, to be ¼ turn ball shut off valves.</li> </ul>		
<ul style="list-style-type: none"> <li>• Return filter will be 10 micron, spin on type, with 15-psi relief by-pass and conditions indicator gauge.</li> </ul>		
<b><u>Pintle Hitch and Tow Plate:</u></b>		
<ul style="list-style-type: none"> <li>• R30 ton non swivel type pintle hook mounted on a ¾” tow plate with 2 5/8” D-Rings.</li> </ul>		
<ul style="list-style-type: none"> <li>• Install an electric brake controller in the chassis cab and wire to a plate mounted 7RV socket.</li> </ul>		
<b><u>Dump Body:</u></b>		
<ul style="list-style-type: none"> <li>• 10’ long monoshell style (NO CROSS MEMBERS) 304 stainless steel shell with 24” sides and 36” tailgate.</li> </ul>		
<ul style="list-style-type: none"> <li>• 3/16” stainless steel sides.</li> </ul>		
<ul style="list-style-type: none"> <li>• 3/16” HARDOX 450 Floor.</li> </ul>		
<ul style="list-style-type: none"> <li>• 36” stainless steel cab shield.</li> </ul>		
<ul style="list-style-type: none"> <li>• 8” bolt on steel paving apron painted black.</li> </ul>		
<b><u>Hoist:</u></b>		
<ul style="list-style-type: none"> <li>• Mailhot front-mount telescopic cylinder model M 100-4.5-2.</li> </ul>		
<ul style="list-style-type: none"> <li>• Hoist has a 24-ton capacity and a 50-degree dump angle.</li> </ul>		
<b><u>Tailgate Assembly:</u></b>		
<ul style="list-style-type: none"> <li>• 3/16” Stainless steel six panel air operated control from inside cab.</li> </ul>		
<ul style="list-style-type: none"> <li>• Double acting, square gate with spreader chains and banjo eyes.</li> </ul>		
<ul style="list-style-type: none"> <li>• Two stainless steel coal doors mounted in right and left side of tailgate</li> </ul>		
<b><u>Lighting:</u></b>		
<ul style="list-style-type: none"> <li>• ICC &amp; DOT Required Lighting</li> </ul>		
<ul style="list-style-type: none"> <li>• Wiring and lighting must be heat resistant type.</li> </ul>		
<ul style="list-style-type: none"> <li>• All lamps/reflectors to exceed FMVSS 108 requirements.</li> </ul>		
	<b><u>YES</u></b>	<b><u>NO</u></b>
<ul style="list-style-type: none"> <li>• No scotch lock type of electrical connector is to be used at all.</li> </ul>		
<ul style="list-style-type: none"> <li>• All wiring to be loomed with all exposed connections to utilize heat shrink or other approved weatherproofing.</li> </ul>		
<ul style="list-style-type: none"> <li>• All ICC lighting to be LED, Plow lights will be Truck Lite #80800 mounted on the hood with custom aluminum brackets.</li> </ul>		
<ul style="list-style-type: none"> <li>• ICC lighting to be a completely sealed system with Truck Lite junction box, all terminals coated with silicone dielectric grease. Junction box to be located at rear of frame and accessible with body on for future repairs if needed.</li> </ul>		
<ul style="list-style-type: none"> <li>• Body up warning light</li> </ul>		
<ul style="list-style-type: none"> <li>• Emergency warning light system consisting of a four head oval grommet mounted LED flashers-two in the front of the cab shield on 45degree angle and</li> </ul>		

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two in the rear corner post of the dump body, oval grommet mounted LED stop turn taillights and back up lights in the body corner post-all lights mounted in stainless steel light boxes.		
<b>Load Cover:</b>		
<ul style="list-style-type: none"> <li>• Electric powered, cab controlled with aluminum arms, asphalt tarp and windscreen.</li> </ul>		
<b>Safety and Accessories:</b>		
<ul style="list-style-type: none"> <li>• Ladder, appropriately braced, forgiving style, with self-cleaning steps and grab handle located at left front corner of body, all body mounted material will be stainless steel.</li> </ul>		
<ul style="list-style-type: none"> <li>• Shovel holder with 5/16" snapper pin</li> </ul>		
<ul style="list-style-type: none"> <li>• OSHA approved safety prop to hold the body in raised position</li> </ul>		
<ul style="list-style-type: none"> <li>• Safety stickers</li> </ul>		
<ul style="list-style-type: none"> <li>• Chock block holder</li> </ul>		
<ul style="list-style-type: none"> <li>• 8" Oak side boards</li> </ul>		
<ul style="list-style-type: none"> <li>• Four flaps</li> </ul>		
<ul style="list-style-type: none"> <li>• Tri-Angle Kit</li> </ul>		
<ul style="list-style-type: none"> <li>• Fire Extinguisher</li> </ul>		
<ul style="list-style-type: none"> <li>• Owner's manual</li> </ul>		
<b>Paint:</b>		
<ul style="list-style-type: none"> <li>• Hitch shall be sand blasted; primered and then finished with black automotive type enamel. Frame and all frame related accessories shall be sand blasted; primered and then finished with black automotive type enamel. Body to be natural stainless steel</li> </ul>		
<b>Installation:</b>		
<ul style="list-style-type: none"> <li>• Entire truck to be delivered fully serviced and ready to operate with all equipment fully installed and operational upon cab and chassis. Any and all equipment, whether specifically mentioned or not, but needed to make for a complete operational assembly shall be supplied. Applicable operators, service and repair manuals should follow the vehicle.</li> </ul>		
	<b><u>YES</u></b>	<b><u>NO</u></b>
<b>Optional Equipment:</b>		
<ul style="list-style-type: none"> <li>• 11' VORTEX style snow plow</li> </ul>		
<ul style="list-style-type: none"> <li>• 11' long x 36" high from the left edge to the center raising to 54" on right</li> </ul>		
<ul style="list-style-type: none"> <li>• Full trip 10 gauge break formed moldboard</li> </ul>		
<ul style="list-style-type: none"> <li>• Four adjustable moldboard return springs, two point level lift</li> </ul>		
<ul style="list-style-type: none"> <li>• Double acting reversing cylinders with cushion valve, curb and moldboard shoes, 1/2"x8" cutting edge</li> </ul>		
<ul style="list-style-type: none"> <li>• Moldboard painted Orange and drive frame painted Black.</li> </ul>		
	<b><u>YES</u></b>	<b><u>NO</u></b>
<ul style="list-style-type: none"> <li>• Roadwatch Bullet road temperature sensing system installed and operational.</li> </ul>		



**NAME:**

**DATE:**

**Company Name:** \_\_\_\_\_

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

**Contact Person:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**Phone Number:** \_\_\_\_\_

**Fax Number:** \_\_\_\_\_

**BID**

Basic Package – Dump Truck and Snow Fighting Package \$ \_\_\_\_\_

Optional Equipment – Chip/Leaf Box \$ \_\_\_\_\_

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Printed Name**

**Envelope Format**

All bids must be submitted in a sealed envelope or package and addressed as below:

Town of Chaplin  
ATTN: William H. Rose IV, First Selectman  
“Dump Truck and Snow Fighting Package”  
195 Phoenixville Road  
Chaplin, CT 06235

**SEALED BID DUE DATE:** Sealed bids will be accepted up until 2:45 P.M. on Tuesday, July 31, 2018 at the Chaplin Town Hall and opened publicly at 3:00 P.M.