



City of Auburn, Maine

Financial Services

Jill Eastman, Director

[www.auburnmaine.gov](http://www.auburnmaine.gov) | 207.333.6601

60 Court Street, Auburn, Maine 04210

August 9, 2017

Dear Bidder;

The City of Auburn is accepting written Bids for the Auburn Public Works Department for **Two (2) Single Axle Dump Trucks**. The City reserves the right to accept or reject any or all Bids in whole or in part and to waive any informality the City may determine necessary. The City also reserves to itself the exclusive right to accept or reject any Bids when it is deemed by the City to be in its best interest. The City of Auburn is governed by Title 1 M.R.S.A. § 401-410, otherwise known as the Freedom of Information Act, which considers bid specifications as public documents. In awarding any Bid, the City may consider, but not be limited to, any of the following factors: Bidder qualifications, price, experience, financial standing with the City, warranties, references, bonding, delivery date, and service of Bidder. Successful Vendors/Contractors shall be current on all amounts due to the City of Auburn prior to the City entering into any contract agreement. All bids must include FOB to Auburn, Maine unless otherwise specified.

Bids will not receive consideration unless submitted in accordance with the following instructions. Please mark sealed envelopes plainly: "**2018 Single Axle Dump Truck -Bid #2018-007**".

Questions regarding this Request for Bids should be directed to Scott Holland, Deputy Director, at (207) 333-6601, ext. 2155 or Derek Boulanger, Facilities Manager/Purchasing Agent, at (207) 333-6601, ext. 1135.

Please submit your Bid to the City of Auburn by 2:00 p.m. on August 24, 2017. **Bids must be delivered to Derek Boulanger, Facilities Manager/ Purchasing Agent, 60 Court Street, Auburn, Maine 04210** on or before the date and time appointed. No Bids will be accepted after the time and date listed above.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Boulanger".

Derek Boulanger  
Facilities Manager/Purchasing Agent

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## **CONDITIONS AND INSTRUCTIONS TO BIDDERS**

1. Bidders shall use the enclosed bid form for quotations. Whenever, in bid forms, an article is defined by using a trade name or catalog number, the term "or approved equal", if not inserted, shall be implied.
2. Submit a separate unit price for each item unless otherwise specified in the bid request. Award will be made on a basis of each item, or as a group, whichever is in the best interest of the City. Prices stated are to be "delivered to destination".
3. Bid proposals must be completed in full, in ink and must be signed by firm official. Bid proposal **must be notarized** prior to bid being sealed and will be disqualified if not notarized. Bids may be withdrawn prior to the time set for the official opening.
4. Bids will be opened publicly. Bidders or representatives may be present at bid opening.
5. Awards will be made to a responsible bidder, considering the quality of the materials, date of delivery, cost which meets specification and is in the best interest to the City of Auburn.
6. All transportation charges, including expense for freight, transfer express, mail, etc. shall be prepaid and be at the expense of the vendor unless otherwise specified in the bid.
7. The terms and cash discounts shall be specified. Time, in connection with discount offered, will be computed from date of delivery at destination after final inspection and acceptance or from date of correct invoice, whichever is later.
8. The City is exempt from payment of Federal Excise Taxes on the articles not for resale, Federal Transportation Tax on all shipments and Maine Sales Tax and Use Taxes. Please quote less these taxes. Upon application, exemption certificate will be furnished with the Purchase Order when required.
9. Time of delivery shall be stated. If time is of the essence, the earliest date may be a factor in the bid award. Equipment not delivered within 5 days of delivery date to the city will be deemed late and assessed a penalty fee of **\$250 per day** for every day beyond stated date of delivery. Once delivered complete and on time to the City of Auburn Public Services Department the dealer will have meet the deadline clause. Any incidents such as company strikes will not be taken into consideration and will not be able to move out the delivery.
10. No contract may be assigned without the written consent of the Finance Director or her designate. The contract shall not be considered valid until a purchase order has been issued to the successful bidder.
11. Please state "**2018 Single Axle Dump Truck -Bid #2018-007**" on submitted sealed envelope.
12. The City of Auburn reserves the right to waive any formality and technicality in bids whichever is deemed best for the interest of the City of Auburn.

## **GENERAL CONDITIONS**

### **1. Equal Employment Opportunity**

The City of Auburn is an Equal Opportunity Employer and shall not discriminate against an applicant for employment, and employee or a citizen because of race, color, sex, marital status, physical and/or mental handicap, religion, age, ancestry or natural origin, unless based upon a bona-fide occupation qualification. Vendors and contractor or their agents doing business with the City shall not violate the above clause or the Civil Rights Acts of 1964. Violations by vendors shall be reviewed on a case-by-case basis and may mean an automatic breach of contract or service to the City of Auburn.

### **2. Save Harmless**

The Bidder agrees to protect and save harmless the owner from all costs, expenses or damages that may arise out of alleged infringement of patents of materials used.

### **3. Subcontracting**

The Bidder shall not subcontract any part of the work or materials or assign any monies due it without first obtaining the written consent of the municipality. The Bidder is responsible for all approved sub-contracted work. The Bidder is responsible for managing all aspects of sub-contracting work. Neither party shall assign or transfer its interest in the contract without the written consent of the other party. **All completed plow trucks with associated plow equipment shall be built exactly the same without exception** so as to keep all components interchangeable from one unit to the next including all trucks, dump bodies, plow equipment, hydraulics, electrical, and various materials to make the unit fully operational thus maximizing up time for municipal use.

### **4. Warranty**

The Bidder warrants that all work will be of good quality and free from faults and defects, and in conformance with the specifications. All work not so conforming to these standards may be considered defective. The Bidder agrees to be responsible for the acts and omissions of all of its employees and all subcontractors, their agents and employees, and all other persons performing any of the work under a contract with the Bidder. If these specifications, either in whole or in part, do not meet all Federal and State of Maine DOT and ICC mandates it shall be the responsibility of the successful bidder to bring specifications into compliance prior to awarding bid.

**PROPOSAL FORM:**

Due Thursday, August 24, 2017

To: City of Auburn  
Derek Boulanger,  
Facilities Manager/Purchasing Agent  
60 Court Street  
Auburn, ME 04210

The undersigned individual/firm/business guarantees this price for thirty days (30) from the proposal due date. The undersigned submits this proposal without collusion with any other person, individual, or firm or agency. The undersigned ensures the authority to act on behalf of the corporation, partnership or individual they represent; and has read and agreed to all of the terms, requests, or conditions written herein by the City of Auburn, Maine.

By signing this form, the firm listed below hereby affirms that its bid meets the minimum specifications and standards as listed above.

Signature \_\_\_\_\_ Company \_\_\_\_\_

Name (print) \_\_\_\_\_ Telephone # \_\_\_\_\_

Title \_\_\_\_\_ Fax # \_\_\_\_\_

Address \_\_\_\_\_

Email Address \_\_\_\_\_

Web Site \_\_\_\_\_

STATE OF MAINE

\_\_\_\_\_, SS.

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

Personally appeared \_\_\_\_\_ and acknowledged the foregoing instrument to be his/her free act and deed in his/her capacity and the free act and deed of said company.

\_\_\_\_\_  
Notary Public

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

Commission Expires \_\_\_\_\_

**SPECIFICATIONS FOR: SINGLE AXLE DUMP TRUCK WITH PLOW SPECIFICATIONS**

**Two (2) 2018 DUMP TRUCK 41,000 G.V.W. WITH 7CY SIDE DUMP BODY, TOWER ASSEMBLY, PLOW, WING AND WET SYSTEM, GROUND SPEED CONTROL**

FAILURE TO ANSWER ALL QUESTIONS COULD LEAD TO REJECTION OF BID

**Trade in's:** (trade-ins will be available and transacted on date of delivery of **fully operational** new trucks that have passed an inspection by City of Auburn Staff.)

- One (1) 2002 International 7 cy Dump truck to include /front plow/wing gear  
(Where is, as is, no implied guarantee at time of trade)
- One (1) 2003 Sterling 12 cy Dump truck to include /front plow /wing gear  
(Where is, as is, no implied guarantee at time of trade)

<b>DUMP TRUCK MANUFACTURER REQUIREMENTS</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
<b>Engine</b>			
Cummins Diesel Engine minimum of 300 horsepower @ 2000 RPM 860 lb/ft @ 1300 RPM			
Cold starting assistance, with block heater. Plug-in to be mounted below driver's door			
<u>Extended life</u> powder coated metal oil pan with magnetic engine oil drain plug. (Stainless steel Preferred)			
Fan Drive Horton Drive Master			
Throttle Hand Control for engine speed control, electronic. (Cruise Control)			
Auxiliary harness 3.0' (three feet) for auxiliary front head lights and turn signals for front plow applications supplied with a weather pack connector			
Accessory wiring for Road Speed Wire coiled under the instrument panel for customer use			
Radiator HD – radiator will be adaptable to a front pump drive from the engine			
Antifreeze min 34 degrees below zero – Extended Life, low coolant level.			
Air compressor min. 15 cubic feet per minute air supply line Naturally Aspirated			
Alternator (DelcoRemy) 12 volt minimum of 160 AMP capacity. Pad mount, with remote voltage sensor.			
Aluminum Fuel tank mounted left side under cab, non-polished capacity min. seventy (70) gallons with a lower step, fuel tank straps bright finish stainless steel			

Twelve (12) volt system with two (2) 12-volt HD batteries with min. 1800 cold cranking amps, mounted under passenger seat with group 31 style			
Jump start stud located on positive terminal of outermost battery			
Wind shield wiper switch with wash and intermittent feature integral with turn signal lever			
Fully electronic engine integral shutdown protection system			
Engine must have fuel filter. Secondary fuel filter mounted on engine and easily accessible for immediate access by maintenance personnel			
Fuel/water separator mounted on frame in an easily accessible location, factory installed			
Engine exhaust shall include a horizontal muffler mounted under cab above frame rails with vertical stack pipe and a chrome plated 90 degree tip			
Air dryer with heater or equal mounted on the inside of frame			
Air Cleaner/Air filter canister single element, with integral snow valve and in-cab controls			
<b>Transmission</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Automatic Allison World, RDS 4500, close ratio, 6 speed, with double overdrive, on/off highway, oil level sensor included, external transmission cooler; Allison transmission filled with synthetic fluid			
Transmission shift control Allison push button type for Allison 3000 & 4000 series transmission. Mounted in Dash Panel			
Transmission computer location in cab			
<b>FRONT AXLE</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Meritor Spicer Wide Track 16,000 lb. min. capacity with leaf springs and shock absorber			
Front springs tapered leaf			
Springs 9,000 lbs. min. capacity left side; 10,000 lbs. min. capacity right side with spring pins rubber bushings, maintenance free. Dealer will be responsible for increased capacity on right side			
Tires: (2) 16 ply, load range H, radial type 12R22.5 Steer			
Wheels: Steel, white powder coated paint, 10 hole bud HD hub piloted 8.25"x22.5			
Wheel bearing lubed with synthetic gear oil with heavy duty hub caps with screw in plugs			
<b>REAR END AND AXLE</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Rockwell, Meritor RS-26-185, or approved equal single reduction, standard track 26,000 lbs. capacity minimum with a gear ratio of 6.83 axle ratio			
Rear axle shall be equipped with locking differential air operated			
Axle lube shall be synthetic			
Tires: (4) 16 ply radial snow tires 12R22.5 drive			
Wheels: Steel, white powder coated paint, 10 hole bud HD hub piloted			

8.25" x 22.5"			
Main Springs 15,500 lb min. tapered leaf with overload springs 2,250 lb with rubber bushings installed in torque leaf or torque rod.			
<b>Brakes</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Full air 100% s-cam type with dust shields on all axles, maxi-type hand parking brake for straight truck applications			
Drain valve twist type			
Parking brake controls, yellow and red, located on instrument panel			
Rear brake shoes 16.5"x7.0"			
Front chambers type 20 long stroke. Rear brake chambers type 30, long stroke			
Rockwell type slack adjusters preferred			
Air glad hands under frame rail (well protected) installed on side of Pintle plate			
Trailer Control knob mounted on dash			
Air compressor minimum capacity 15.0 CFM			
Air tank location (2), mounted inside or just below frame rail running parallel with frame			
Front brake shoes air cam 16.5" x 6"			
Trailer connections with hand control valve and tractor protection valve for straight truck			
Anti-lock brake system, Bendix preferred			
Air dryer location inside left rail, back of cab			
<b>FRAME</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Reinforced capable of having snowplow mounted extended 20 inches past hood of truck			
Cross member, intermediate (1) additional, 5 piece, located 9" from back of cab			
Steel Front Bumper, powder coated gray color, swept back			
Double "C" Channel Frame. Corrosion resistant coating between rails of double "C" channel frame			
Wheel base – 183" (Frame must be long enough to accommodate the body with the stack exhaust, wing tower assembly, 10' dump body and calcium tank)			
Tow hooks – (2) front and (2) rear Mounted in the pintle plate in the rear, and on the frame on the front			
CA110" Note: All truck manufacturers <i>must</i> consult with plow equipment builders to ensure wheel base is as short as practical to			



give the best turning radius possible without compromising the integrity of the finished product and meet all Federal and State of Maine DOT and ICC requirements			
The Clearance from the back of the cab to the front of the dump body should be a minimum of 36"			
PINTLE PLATE (from plow body builder)			
From Plow/Body builder: Pintle hook 15 ton (PH 15 <u>or equivalent</u> ) from plow body builder. Must include two (2) "D" rings. Glad hands 2' (24 inches) from floor to jaw of pintle hook From Truck Manufacturer: Electric trailer lighting hookup (7 pin not flat Pollack) with electric trailer brake controller to operate electric trailer brakes. Must include tail lamps and plate lamp, with OEM lights remounted into the Pintle plate			
Trailer connection socket 7-way (truck builder), mounted at rear of pintle plate (body builder), wired for turn signals combined with stop, compatible with trailers that use combined stop, tail, turn lamps. Trailer brake to be wired to the center pin			
<b>CAB</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Premium Cab with premium trim w/thermo insulation thru-out to make cab DB compliant. Overhead console for storage area and 2-way radio placement			
Must be equipped with a cab air filter			
Hood (front end tilting) with fenders and (with rubber fender extensions) must be made of fiber glass throughout from the factory, no aftermarket, dealership or body shop alterations			
Hood must also include butterfly-type access doors (2); the butterfly doors must be large enough and placed for checking / filling of all fluids. NO less than 24" openings on both sides. Able to be accessed from ground			
Highest output capacity heater and defroster with air conditioning – 30,000 BTU min			
Mirrors (2) rectangular, 7" x 16" & integral convex both sides, 102" inside spacing, breakaway type, heated heads thermostatically controlled, power both sides, clearance lights LED, bright finish heads and brackets stainless steel or commercial hard plastic mirrors (no painted steel) factory installed, no substitutions – one (1) each side of cab			
Two (2) visors			
AM/FM radio			
Bostrom air ride high back cloth driver side with (2) arm rests; passenger side conventional seat with (2) arm rests; both with shoulder/lap belts, passenger seat must have storage area for placement of batteries			
Throttle and service brake pedals <u>MUST BE mounted</u> to the firewall with at least 2 ½" of clearance between pedals, no pedals to be mounted on floor			

Two (2) electric horns, one air horn, must be equipped at the factory – no aftermarket or dealer add-on			
Cab shall be equipped with Electronic messenger center			
Telescoping and tilt steering wheel, 2 spoke, 18" diameter factory installed			
2 Grab handles left and right side mounted outside of the cab			
One Power port, cigarette lighter type, 12 volt			
Air Ride Cab (cab rear suspension air bag type) mounted to frame in two or more locations factory installed with shock and air ride system. No rigid or bolted down cabs allowed			
<b>GAUGES</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Volt meter			
Engine oil pressure (electric)			
Coolant Temperature (electric)			
Air pressure			
Tachometer (electric)			
Odometer/Hour meter/Fuel Gauge			
Transmission temperature			
Warning system low fuel, low oil, high engine coolant temperature and low battery voltage, visual and audible. Air cleaner restriction gauge with black bezel mounted in instrument panel			
<b>LIGHTING</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
All lights and reflectors required by Federal and State of Maine DOT and ICC. Shall be installed at factory, (Body/Plow builder to install marker lamps on rear corners and rear ID lights. Lights must be LED.)			
Headlights (2) long life halogen for two light system, sealed beam, with chrome plated bezels. All lighting DOT compliant with reflective material			
Day Time running headlights			
Chassis stop/tail/turn Truck Light #4027			
Chassis to be supplied with tail lights and brackets			
Turn signals front include reflectors and auxiliary side turn signals, solid state flashers, flush mounted			
Test exterior lamps Pre-trip inspection will cycle all exterior lamps except back-up lights			
All lights shall be LED type, Cab & Chassis. (Body/Plow builder rear facing SRB lights to be LED strobe and standard STT installed in rear corner post of body, recessed. Front strobes LED installed in headboard in front at a 45% angle recessed			

<b>ELECTRICAL</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Body Builder Wiring back of cab at left frame to include sealed connectors for tail/amber turn/marker backup/accessory power/ground and sealed connector for stop/turn			
Switch, Body Circuits, MID for body builder, 6 (six) Momentary switches in instrument panel; one power module with 6 (six) channels, 20 Amp Maximum per channel, 80 amp maximum output, switches control power module through multiplex wiring, mounted in cab behind driver seat			
<b>BACKUP ALARM</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
To meet Federal and State of Maine DOT and ICC laws Bal Kamp #730-1067, 102dBa minimum. Consult Auburn Public Services for placement			
<b>OTHER</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Dash mountable 12.5 Htz switchable, 100 watt VHR, reprogrammable mobile unit, narrow band capable. Compatible with Motorola M1225 radio. Installed by Bidder using accessory power			
<b>PAINT</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Omaha orange; top of engine hood to be <u>flat black</u>			
<b>SHOP MANUALS</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
<u>One (1)</u> Complete hard copy shop repair manual and One (1) CD manual for EACH OF THE FOLLOWING cab/chassis to include engine, transmission and differential (rear end), dump body, plow gear, wetting system, and plow controls			
<u>One (1)</u> Complete hard copy Parts manual and One (1) CD manual for EACH OF THE FOLLOWING cab/chassis, dump body, plow gear, wetting system, and plow controls			
<u>One (1)</u> Hard copy Operating manual and One (1) CD manual for EAH OF THE FOLLOWING cab/chassis, dump body, plow gear and wetting system, and plow controls			
<b>WARRANTY</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Minimum Warranty 5 years, 100,000 miles and MUST COVER DIANOSTIC'S 100%			
Optional extended warranty, 8 years or 150,000-miles MUST COVER DIANOSTIC'S 100%			
Dealer must provide in writing all terms and conditions on Warranty Information			
<b>PLOW BUILDER REQUIREMENTS</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
<u>HEAVY DUTY RUGGED SERVICE SIDE DUMP BODY</u>			
Heavy Duty 205,000 lb psi steel body serving as spreader or dump, transformed by a hydraulic tilting floor. 10 ft.			
Sides, chain cover, tailgate, headboard – 3/16" thick 205,000 psi steel			

Floor – 1/4" inch thick AR450 Steel (205,000) P.S.I. minimum			
Min. 7 cubic yard capacity; 10 ft length. 6.1 cubic water level			
27" height without side board, min. bottom of pocket			
Outside length of 10'			
40" minimum-inch tailgate height.			
Cab shield 24"			
Tailgate constructed of 205,000 psi steel			
Tailgate top ears made of 3/4" .75 steel min			
Tailgate will be double acting design and lay flat with the floor when in the horizontal position			
Tailgate top and bottom pins made of 1 1/4" cold roll steel			
Tailgate shall be air operated air chamber spring type			
Tailgate will have one coal door on driver side for inspection of conveyor chain			
Dump body must be mounted to frame square, level and balanced according to industry specifications			
Cut out in rear apron for access to chain and sprockets, slotted discharge box with split flange for ease of access to gear box, grease adjusters for chain adjustment, honeycomb floor to prevent scalloping, Full remote extended grease fittings for all grease maintenance			
Mud flaps mounted to dump body in front and rear of tires			
Full Remote Grease Systems using 3000PSI hydraulic hoses. The entire package shall have a central lube point preferably mounted on the driver's side.			
Ladder mounted to front driver's side dump body. Lowest step even with dump body bottom when up, two steps below body bottom when down. Self-contained unit. Ladder must be able to be secured in both up and down positions. Must have step inside body. Consult Auburn Public Services before installation			
<b>HOIST</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Front telescopic hoist single acting, 20 ton power up.			
<b>FRONT HITCH</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Heavy duty tilting front hitch with cable front post. With 6 degree set back of angle. Fully welded			
Equivalent to Tenco Model H345-FFC52 or approved equal			
Wing post shall have 10" Minimum of clearance from ground			

<b>ATTACHMENT PLATES</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
There shall be two side plates extending from the chassis frame rails to the bottom of the hitch			
Side plates shall be 3/4" thick for single axle trucks			
Drop plates of 1/2" shall extend from the front of the chassis frame rails to the side plates and serve as the truck portion of the tilting front hitch			
Pinned to each side of the drop plates are 3 1/2" x 3 1/4" x 1/2" angles to serve as the hitch portion of the tilting hitch			
Tilting angles shall be welded to the structural tubes of the hitch or approved equal			
Hitch shall tilt forward for engine access when two top pins are removed			
Hitch shall be removable when all four hitch pins are removed. Front OEM bumpers must be able to be used for summer operation			
<b>HITCH FRAME</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Hitch frame constructed of two horizontal tubes and two vertical angles			
Horizontal tubes are to be 3" x 5" x 3/8" structural tubes. Vertical angles to be 3x4x3/8"			
The base end of the vertical angles, in conjunction with a 3 1/2" x 1/2" bent flat, shall have a provision for three pinning heights for front plow attachment			
Top of verticals shall incorporate a 3" x 3" x 3/8" steel angle to serve as a support for the plow lift hinge			
The plow lift hinge shall be flame cut from 3/4" steel plate. The lift cylinder shall have a stroke of 12" and be double acting			
Cylinder tube: 4" diameter			
Cylinder shaft: 2" diameter			
All Cylinders shall be nitrated with a minimum of 3 year warranty			
Base of cylinder shall be supported by a 3" x 4" 3/8" angle mounted on the top horizontal tube. Hitch frame shall incorporate an integral 10-gauge bumper			
<b>FRONT POST</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Front wing post shall contain a 3/4" sliding plate to center lift the nose of the wing			
The sliding plate shall be raised and lowered by a 36" double acting cylinder			
The cylinder shall provide for 52" of slide travel. The cylinder shall raise and lower the front slide through use of 1/2" cable and sheave arrangement			
The cylinder shall be located behind the front post for protection from damage			

Cylinder tube= 2 ½" diameter. Shaft = 1 ½" diameter. An 8" convex mirror will be mounted in a location that allows the driver to see the wing and side of truck but is out of harm's way while in operation			
Cylinder shall be nitrated with a minimum of 3 year warranty			
Front post shall be manufactured from 6" I-beam @ 12.5lbs/ft. Full welded seam on all beams with a 6 degree setback			
The I-beam shall be welded to a minimum of three attachment points extending from the front hitch. Bottom two attachments are to be a minimum 3" x 5" x 3/8" structural tub reinforced with 3/8" plate			
I-beam post to be welded in 3/8" brackets at end of each tubular brace			
Post is to be further supported by a 3" x3" x 3/8" upper brace			
<b>FINISH</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
All steel to be sandblasted, primed with an epoxy primer and painted black			
<b>MISC. FRONT POST</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
One set of Halogen plow lights shall be included. ICC light package in accordance with DOT. Warranty of 1 year			
<b>REAR WING TOWER</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Shelving type cable rear wing tower			
Rear tower post height no less than 60 inches			
Rear wing post shall contain a ¾" sliding plate to lift the wing arm from shelving			
The sliding plate shall be raised and lowered by a 60" stroke double acting cylinder			
Cylinder tube: 2 ½" diameter. Shaft: 1 ½" diameter. Cylinder to be nitrated with a 3 year warranty			
Rear wing post shall have a two point attachment for top and bottom push arm attachments and shall be perpendicular, and straight to the wing			
Rear post shall be manufactured from 8" I-Beam @ 23 lbs./ft			
A steel plate formed in a semi-circle or angle to be installed on post mechanism so as to face parallel to the back of the wing blade and utilized the full strength of the rear post			
Attach tower assembly to truck frame with a minimum 4" x 6" x ½" angle welded to the outside of the frame			
Base of post shall be braced with two angle irons, 4" x 4" x 3/8" and 3" x 3" x 3/8" running from the base of the semi-circle or angle to the chassis mounted angle iron. Welded			
<b>WING ARMS and LIFT CYLINDER</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Push arms are to be adjustable in length to provide variable cleaning path widths , and shall be mounted to be straight when in a lowered position			

Push poles and knuckles should be in a straight line going from the slide brace to the wing attachment when in the down position			
Front and rear wing posts must accommodate a 11' wing with 10' cutting edge to maintain proper push pole angles			
Upper arm inner shaft: 2 ¾" diameter			
Upper arm outer tube: 3" diameter schedule 80 pipe			
Lower arm inner shaft: 2 ¼" diameter			
Lower arm outer tube: 2 ½" diameter schedule 80 pipe			
Truck side ends to have "U" shaped receiver and universal joints			
Wing side ends pin into receiver on backside of wing moldboard			
Bottom arm contains a compression spring mounted between the tube and the shaft			
Wing arm lift cylinder is located behind the rear post and has a stroke of 27"			
The cylinder shall utilize a series of pulleys and cable for raising and lowering rear of wing			
All cylinders to be nitrated with a 3 year warranty			
Cylinder tube: 3 ½" diameter			
Cylinder shaft: 1 ¾" diameter			
<b>FINISH</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
All Steel to be sandblasted, primed with epoxy primer and painted black.			
<b>MISC.</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Parts manual and maintenance manual to be provided			
All components shall carry a ONE-YEAR warranty.			
carbide and cover blade put on the wing and plow			
<b>HYDRAULIC</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Heavy Duty load sensing piston pump, 36 GPM @ 1200RPM, with low oil sensor installed in the Hyd tank and automatic shutdown valve with override switch installed in dash, stainless steel ½" hydraulic lines plumbed to front and to rear, 40 gallon frame mount tank behind cab, with sight gauge and filter, Walvoil electric spool valves to operate all functions and electric Hydra force sander valve with separate chain and spinner cartridges, or approved equal. <u>Stainless steel lines</u> front and rear for all Hyd components, with short 3 to 4 ft., 3000 psi hyd line to connect implements and are to be installed in such a manner as to not block or interfere with bolt on engine components, transmission components or any other devices or truck/plow components that			

would require maintenance during its service with the City. List a maker of pump...Eaton, Rexroth etc. Manual Shut-off valve mounted on Hydraulic tank.			
All front Hyd attachments will have high pressure male and female fittings with covers and shall be mounted on a plate attached to the front of the frame as to make it easy for the gear to installed and uninstalled.			
<b>SHOP MANUALS</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
<u>One (1)</u> Complete hard copy shop repair manual and One (1) CD manual for <u>EACH OF THE FOLLOWING</u> dump body, plow gear and wetting system			
<u>One (1)</u> Complete hard copy Parts manual and One (1) CD manual for <u>EACH OF THE FOLLOWING</u> dump body, plow gear and wetting system			
<u>One (1)</u> Hard copy Operating manual and One (1) CD manual for <u>EACH OF THE FOLLOWING</u> dump body, plow gear, wetting system and associated software			
All hydraulic cylinders including hoist shall have a five year warranty			
<b>OTHER EQUIPMENT</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Cirus Uni-grip 620 Electric joystick control of latest model and design, or approved equal, with armrest to operate all functions proportionally hydraulically actuated includes hydraulically trimmed microprocessor, safety trigger for all functions, LCD display for operator, and programmable buttons for up to 24 functions of hydraulics. Installed ergonomically for driver with adjustments both up and down and tilt and turn. Joy stick must be ready for service when delivered. Consult Auburn Public Services for Joy Stick button layout.			
CirusSpreadsmart Rx auto sander control system, or approved equal, with wireless drive by base station and data access, gps, prescription spreading, capable of no Speedo mode for operation without rate sensor, self-diagnostics and windows based program, with road temperature sensor mounted in dash, flow meter, rate sensor, cable connectors to be IP68 rated at rate sensor and hydraulic connections, All electric controls and computers for sander control functions shall include base station installation and a minimum of 8 hours training by the factory authorized dealer located in the State of Maine and by a manufacturer factory representative. Yearly refresher training provided at our location. The temp sensor shall be mounted on the Driver's side mirror and the display in the dash.			
Closed circuit camera system – Clarion CC-8516B or equal camera system must be weather resistant. Camera should have a protective box around it and an automatic lens guard to be mounted on the rear of truck. The b/w monitor will be mounted in the cab on a stand bolted to the floor and positioned so the operator can view it from his seat. Camera wired to reverse, on when in reverse. Consult Auburn Public Services for Location before installation.			



Auxiliary wiring shall be mounted in the cab with the switches next to the ignition switch, fuse box mounted next to O.E.M. fuse panel and the relay mounted on the rear cab wall All Plow gear Auxiliary wiring to be wired to plate/platform mounted between the seats against the back of the cab consult with truck manufacturer And label with wiring diagram. Leave room for 2-way radio ECM. Consult with Auburn Public Services before installation.			
All electrical wires color coded and numbered, consult with truck manufacturer			
<b>SPECIFICATIONS FOR SNOW PLOW EQUIPMENT</b>			
<b>FRONT PLOW</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Heavy Duty power reversing trip edge poly plow, <u>or approved equal</u> - compression springs for trip mechanism, torsion bar springs not acceptable			
Single piece trip edge, cable self-leveling mechanism.			
- Two curb shoes			
- 4: x 4" structural tube framing 3/8" thick			
Overall length 11 ft, height 42"with 300 Tenelene face.			
Clearing path @ 30 degrees: 9' 6"			
Moldboard constructed from no less than 10 gauge high strength carbon steel with cut outs to accept a polymer moldboard sheet			
Option for Tencoloc or equivalent			
Moldboard skin is high-density polymer (Tenelene) .300 think with an orange front and black back. With a full length reinforced rubber snow deflector, that extends min .of 18 inches below the top of the plow			
Leading edge of moldboard shall be reinforced with a 1 ½" x 2 ½" x ¼" rectangular tube running the full length of the top of the moldboard.			
Moldboard reinforcement with no less than seven full-length 3/8" ribs. Bottom of ribs shall be welded to a 4" x 7" x ½" boxed hinged and spring support.			
Backer angle shall be minimum 4" x 4" x 3/4" thick A-35 angle iron with ½" gussets.			
Attack angle of moldboard is adjustable to 10, 15, and 20 degrees by the use of two adjusting braces.			
<b>PLOW TRIP MECHANISM</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Trip mechanism shall be hinged with a minimum of seven-plate hinges flame cut from 3/8" steel. SINGLE piece trip hinges are not acceptable			
The hinges shall be located midway down the trip section. Top mount hinge locations are not acceptable.			
The trip sections shall have the ability to be both, one-section. And use 12 inch standard punch blades.			

The trip section shall be reset, after hitting an obstruction, by six coil-springs mounted vertically behind the trip section. Horizontal torsion springs are not acceptable.			
Trip springs shall be 7/8" diameter wire and have a minimum of 8 coils			
Springs shall be attached from backer angle to mainframe via 2" diameter rods			
Each spring shall have two retainer holes for spring tension adjustments.			
<b>FRONT PLOW CUTTING EDGE</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Moldboard shall be punched to accept 12" punched cutting edges			
Plow shall be complete with Black Cat "bull nose" carbide blades, cover blade curb shoes			
Two moldboard shoes shall be supplied and installed			
Two curb shoes shall be supplied and installed. Plow will have a removable jack stand capable of raising and lowering plow			
<b>PUSH FRAME</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Truss frame pins to moldboard with no less than four 1 1/4" diameter pins.			
Truss frame constructed from 4" x 4" x 3/8" wall square tubing			
The reversible A -Frame table shall be flame cut from 1/2" plate and shall be 9" wide and reinforced with 3/8" plate.			
The A-Frame shall pin to the truss with a 1 1/2" diameter pin.			
Oscillating bar support plate constructed from a 3/4" x 4" x 42" steel plate with stops made from steel dowels sandwiched between the oscillating bar and 3/4" steel plates.			
Plow shall pin to hitch with two 1" ears on 30 1/2" centers. Option for Tencoloc or equivalent			
<b>REVERSING MECHANISM</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Reversing shall be achieved with two double acting cylinders.			
Cylinders shall be 3" in diameter with a 1 1/2" rod and 20" stroke.			
Cylinders shall have nitrated rods for corrosion resistance. Chrome plated cylinder rods are not acceptable.			
Cylinders shall be equal to Mailhot cylinders and a 3 year warranty.			
A built in cushion valve shall be provided for cylinder protection.			
<b>LIFTING DEVICE</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Lifting device shall be pulley and cable design. Design shall allow plow to lift with minimum of list.			
<b>FRONT PLOW HITCH</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Heavy-duty tilting front hitch with cable front post.			
The plow lifting point should extend far enough for the lifting cable to			

be plum.			
Heavy duty detachable full wing tower unit.			
Cable front post.			
Power tilt and detach front hitch,			
Plow will come with cutting edges with carbide inserts and 5/8" cover blade			
Punch pattern to be 3 / 3 / 12			
<b>SIDE WING ATTACHMENT</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Heavy duty 11ft (10ft cutting edge) wing suitable for patrol or leveling operations. Cable operated.			
Complete installation to chassis			
Heavy-duty 3/16" steel moldboard			
Five(5) full-length 3/8" horizontal reinforcements			
Back of wing shall incorporate integral float			
There shall be several places longitudinally at the back of the wing to allow the push-arms to be attached at the proper angle using straight on geometry, while in the down position			
Backer angle shall be a minimum 4" x6" x 5/8" thick A-36 angle iron with 1/2" gussets.			
Leading edge of moldboard shall be reinforced with a 3"x3"x 3/8" angle running the full length of the top of the wing.			
Leader shall be a 1" steel plate with two holes to accept a 1 1/4" bolt.			
Extra heavy duty wing arms with spot light mounted on wing post			
Cable rear post with curved rear armature to customize the angle of the rear post to be perpendicular to the push arms or approved equal.			
Extra heavy duty wing arms with spot light mounted on wing post			
<b>CUTTING EDGE</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Moldboard shall be punched to accept both 8" and 12" punched cutting edges			
5/8" Carbide edges and 5/8 cover plate			
Plow shall be complete with 120" x8"x 5/8" cutting edge.			
Two moldboard shoes to be provided.			
<b>FINISH</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
All steel shall be sandblasted			
All steel shall be primed with an epoxy primer.			
Moldboard shall be painted same color both sides.			
<b>WARRANTY</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Wing shall carry a ONE-YEAR warranty			

Hydraulic drive calcium system, Cirus <u>or approved equal</u> , hydraulically operated with 60 gallon CACL2 tank bolted onto the passenger's side of the frame rail where clearance is best and controlled by the sander control system. Calcium tank must have shutoff valve, and filter assembly, and a garden hose hook-up for flushing and draining the system Plow builder must consult Auburn Public Services for exact location, size of tank and configuration prior to installation. Permanent fastening system for tank no ratchet straps allowed. Mounting brackets shall be formed to the shape of the tank to act like a cradle.			
<b>SPECIFICATIONS FOR A STROBE SYSTEM FOR HIGHWAY VEHICLE</b>			
<b>CAB</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
The strobe light system for the cab shall have 1- 360 degree Led 12 volt strobe part number SL646ALP or approved equal. Mounted on center of head board with independent switch to be located in cab. 2 Angled corner mount strobes part number 60120Y or approved equal.			
<b>REAR STROBE LIGHT HEAD ASSEMBLIES</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
All lights shall be 12 volt LED, self-contained. Independent strobe switches located in the cab. One switch for the front strobes and one for the rear strobes.			
<b>WARRANTY</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
To be cut into the rear post of dump body and recess mounted in Buyers triple oval steel box #LB3253. The three light groups shall be standard lighting not LED. and configured as follows: Top: strobe Truck Lite #60120Y; Middle: Reverse,6060C Clear, Bottom Stop, Turn, & Tail 6050			
The strobe system shall be warranted by the manufacturer to the user directly, to be free of defects of material or workmanship for a period of two (2) years from the date of installation (five 5 years on the strobe power supply). Sample of this warranty must be provided with bid. All hardware, such as lenses etc., is understandably excluded from this warranty.			
<b>WARRANTY</b>	<b>Yes</b>	<b>No</b>	<b>Var.</b>
Minimum Warranty 5 years, 100,000 miles and MUST COVER DIAGNOSTIC'S 100% on any and all equipment / systems installed by body company. All Warranty work will be inspected at APW			

**BID PROPOSAL FORM**

The undersigned proposes to furnish (2) Model Year 2018, 41,000 G.V.W. Single Axle Dump Truck with Tower Assembly, Snow Plow equipment and other accessories in accordance with the Instruction to Bidders and Specifications, both of which are incorporated herein by reference. Please note: All completed units will be built exactly the same with the same components so as not to have any dissimilar units. All components will be interchangeable without the need to modify, fabricate or re-route hoses, wiring, hydraulic to make it fit.

**Two (2) MODEL 2018 Dump Trucks 41,000 GVW**

**With Tower Assembly, Snow Plow Equipment** \$ \_\_\_\_\_

Make and Model and Year \_\_\_\_\_

**Dump Body and Hoist** \$ \_\_\_\_\_

Make and Model and Year \_\_\_\_\_

**Snow Plow Equipment** \$ \_\_\_\_\_

Make and Model and Year \_\_\_\_\_

**Less Trades:**

One (1) 2002 International 7 cy dump body, plow & wing gear \$ \_\_\_\_\_  
(Where-is, as-is, no implied guarantee at time of trade)

One (1) 2003 Sterling 12 cy Dump body, plow & wing gear \$ \_\_\_\_\_  
(Where-is, as-is, no implied guarantee at time of trade)

**Net FOB Auburn Highway Garage (Total Price)** \$ \_\_\_\_\_

**Please provide additional pricing for the following options:**

Stainless Steele Hybrid body: \$ \_\_\_\_\_

Full Stainless Steele body including Floor: \$ \_\_\_\_\_

Delivery Date: \_\_\_\_\_  
Name of Company: \_\_\_\_\_  
Signed by: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Address: \_\_\_\_\_  
E-Mail: \_\_\_\_\_