City of Auburn, Maine

"Maine's City of Opportunity"

Financial Services

September 18, 2014

Dear Bidder:

The City of Auburn is accepting written Bids for the Auburn Public Works Department for **One (1) 2014 Dual Axle Dump Truck.** 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: **"2014 Dual Axle Dump Truck– Bid #2015-007".**

Questions regarding this Request for Bids should be directed to Kevin Doyle, Operations Manager, at (207) 333-6601, ext. 2159 or Derek Boulanger, purchasing Agent, at (207) 333-6601, ext. 1135.

Please submit your Bid to the City of Auburn by 2:00 p.m. October 2nd, 2014. 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,

Derek Boulanger
Facilities Manager/ Purchasing Agent

60 Court Street • Auburn, ME 04210
(207) 333-6600 Voice • (207) 333-6601 Automated • (207) 333-6620 Fax
www.auburnmaine.gov

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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. Trucks from the truck manufacturer not delivered within 5 days of delivery date to the plow builder 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 plow builder the truck manufacture will have met the deadline clause. Completed fully serviced and ready for plow duty from the Plow Builder not delivered within 5 days of the delivery date to the City of Auburn Public Works Department will be deemed late and assessed a penalty fee of $250 per day for every day beyond the date of delivery. The truck manufacturer and plow builder must be in constant contact to avoid all delays, issues that might arise with the build and keep the City of Auburn well informed of the progress of the build. Ultimately, once the plow build begins it shall be the sole responsibility of the Plow Builder to handle all issues and problems that might arise with the completion of the fully serviced and ready for plow truck operation without exception. Any such 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 **"2014 Dual Axle Dump Truck– Bid # 2015-007",** 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.

BID FORM
Due Thursday, October 2, 2014

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

Signature _____ Name (print)_____

Title_____ Company_____

Address_____

Telephone No._____ Fax No. _____

Email Address:_____

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_____

2014 DUAL AXLE DUMP TRUCK WITH PLOW SPECIFICATIONS

SPECIFICATIONS FOR: One (1) 2014 DUMP TRUCK 66,000 G.V.W. WITH 14 FOOT SIDE DUMP BODY, TOWER ASSEMBLY, PLOW PACKAGE

Trade ins: *(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) 2000 International 12 cy bodytruck to include: dump body 1 front plow, 1wing gear,* ***(where is, as is, no implied guarantee at time of trade-in.)***

- *One (1) International recycling truck, Model 7400, unit #83* ***(where is, as is, no implied guarantee at time of trade-in.)***

(FAILURE TO ANSWER ALL QUESTIONS COULD LEAD TO REJECTION OF BID)

	DESCRIPTION	**Yes**	**No**	**Var.**
1	430 HP diesel engine with wet sleeved cylinder bores			
2	1550 Ft-Lb torque @1000 RPM			
3	Antifreeze min 34 degrees below zero- extended life coolant			
4	Radiator HD- radiator will be adaptable to a front pump drive from the engine			
5	Air compressor min. 15 cubic feet per minute			
6	Alternator Bosch LA 160, 12 volt 160 Amp			
7	Aluminum Fuel tank capacity min. seventy five {75) gallons with a lower step,left side			
8	Twelve (12) volt system with two (3) 12-volt batteries with min. 1950 cold cranking power, mounted on right side; under the cab under or inside of frame rails.			
9	Low oil and high temperature cut out ECM programmed to shut engine down, factory install			
10	Fuel filter, cartridge type			
11	Water separator spin on type			
12	Engine exhaust shall include a horizontal muffler with vertical stack pipe and a chrome plated 90 degree tip. Mounted under Cab. must have engine brake			
13	Air dryer- Bendix AD-9 mounted on the inside of frame			
14	Cooling fan drive must be automatic on/off type, air operated; Horton type or approved equal, front engine PTO effects. With Davco 382 fuel pro or equil.			
14A	Cable pull petcocks to drain air tank. Ready access to driver.			
	FRONT AXLE	**Yes**	**No**	**Var.**
15	Sheppard M-100/M80 Dual power Dual box steering box(s)			
16	Wide Track, Beam Type, 20,000-Lb Capacity with Driver controlled air assist system to compensate for front wing post.			
17	Tires: 20 ply 315/80R22.5 Steer tires, with one spare tire and wheel(315/80R22.5 / 900/22.5			
18	Wheels: 10 hole bud HD hub piloted, painted white. Heavy Duty extra thick wheel 8.25 X 22.5 with .472" thick increased capacity disc and steel hubs.			
19	Wheel bearing lubed with synthetic gear oil			
	REAR END AND AXLE	**Yes**	**No**	**Var.**
20	46,000 lbs. capacity minimum with a gear ratio of 5.63. with synthetic oil lube oil pump,			

	Driver controlled Locking Differential in front rear and rear. Axles			
21	-Tires:-16-ply load range H radial 12R22.5 -drive			
22	Wheels: 10 hole bud HD hub piloted 8.25" x 22.5" with .472" thick increased capacity Disc			
23	Walking Beam type 54' axle spacing, 46,000-lb with rubber end bushings, transverse Torque rods with Hendrickson HMX/460-54 Rear suspension.			
	TRANSMISSION	**Yes**	**No**	**Var.**
24	Automatic Allison World, RDS 4000,(Min) 6 speed with double overdrive, On/Off Hwy, Includes Oil Level Sensor, with PTO provision, external transmission cooler; with gear shift handle control and Transmission Temperature gauge, and TCM in cab			
24a	5 yr warranty			
	FRAME	**Yes**	**No**	**Var.**
25	Reinforced capable of having snowplow mounted extended 10 inches past hood of truck. Extending 10" beyond front of cab for snow gear connections. Must be double C channel frame including 10" frame extension			
26	Premium steel 120,000 lbs P.S.I. extra high tensile steel; must also have a R.B.M. rating of 3,100,000 inch lbs.			
27	Supply total wheel base, and 133.50 (nothing mounted to or on it.) useable clean frame rail; (Frame must be long enough to accommodate the body with the stack exhaust and wing tower assembly and a 14 ft body).			
28	Tow hooks- front and rear. Attached to frame with Grade 8' bolts/nuts.			
29	CA ratio shall be 133.50 inches Min clean frail rail			
	No obstructions hindering the installation of plow or sanding equipment.			
	PINTLE PLATE	**Yes**	**No**	**Var.**
30	Pintle hook 25 ton (PH 25 or equivalent) with electric trailer lighting hookup (7 pin not flat Pollack) with air operated electric trailer brake controller to operate electric trailer brakes. Must include two (2) "D" rings in rear plate.EMO Tail lamps installed in plate.			
	CAB	**Yes**	**No**	**Var.**
31	Cab - upgrade from standard to deluxe trim w/thermo insulation on floor & firewall, or Premium interior, with minimum width of 68" height 56", depth 51" from back of cab to fire wall			
32	Hood and fenders must be made of fiber glass throughout, no plastics			
33	Hood must also include butterfly-type access doors; the butterfly doors must be large enough and accommodate checking I filling of all fluids, on both sides if needed to check fluids. Able to be accessed from ground.			
34	High output heater and defroster with air conditioning- 45,000 BTU min. A/C			
35	Windshield wipers: electric, with washers and delay			
36	Mirrors- one (1) each side of cab; west coast 7" x 16" heated, 8" convex heated			
37	Two (2) visor; two (2) armrests			
38	AM/FM radio. With area and connection to accommodate two way radio.			
39	Bostrim air ride high back cloth driver side; passenger side conventional seat; both with shoulder/lap belts			
40	Throttle and service brake pedals MUST BE mounted to the firewall with at least 2" of clearance between pedals			
41	Two (2) electric horns one with high tone, the other with low tone. One (1) air horn.			
41a	Power window and door Lock for Passenger Side, and drivers side			
42	Double Power port, cigarette lighter type			

43	Cab mounted to frame in two or more locations with shock/spring/air ride system. Steel Cab throughout. No plastic roofs allowed. Heated windshield, 2 hood mounted heated 8" convex mirrors. 6 Extra switches and power module in cab in dash			
	BRAKES	**Yes**	**No**	**Var.**
44	Air brake system, Spring break modulator valve, slack adjusters front and rear Haldex Automatics			
45	Brake Chambers front , 24 sq-in, Rear 30/30 Spring Brake			
46	Rear S-Cam 16.5"x7.0" Long stroke Brake chamber spring			
47	Air glad hands under rear frame (well protected) installed to the side of Pintle plate, not on it. Option to install behind plate with rubber sealed hosed hands.			
48	Air supply control valve for trailer, switch mounted in dash; all brake lines color coded			
49	Front brake shoes 16.5" x 6" includes 24 sign long stroke brake chamber rear shoes, 16.5" x 7" Includes 30/30 Sq-In long stroke brake chamber and spring actuated parking brake.			
	GAUGES	**Yes**	**No**	**Var.**
50	Volt meter			
51	Oil pressure			
52	Coolant Temperature			
53	Air pressure			
54	Speedometer, Odometer ,Tachometer			
55	Hour meter			
56	Transmission temperature			
56a	Information Display screen to show DTC (diagnostic trouble codes)			
	LIGHTING	**Yes**	**No**	**Var.**
57	All lights and reflectors required by State of Maine and ICC. Installed by Bidder.			
58	Chassis stop/tail/turn Truck Lite #4027			
59	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, Front strobes LED installed in headboard in front at a 45% angle recessed..			
	BACKUP ALARM	**Yes**	**No**	**Var.**
60	To meet State of Maine and ICC laws Bal Kamp #730-1067. 93 Decibels or greater			
	OTHER	**Yes**	**No**	**Var.**
61	Dash mountable 12.5 Htz switchable, 100 watt VHR, reprogrammable mobile unit, narrow band capable. Compatible with Motorola M1225 radio. Installed by Maine Radio.			
61a	Must supply Front Bumper. Must have setup for summer mounting of bumper to hitch.			
	PAINT	**Yes**	**No**	**Var.**
62	Omaha orange; top of engine hood to be flat black. Wheels White.			
	SHOP MANUAL	**Yes**	**No**	**Var.**
63	One (1) Complete shop repair manual and One (1) CD manual for EACH OF THE FOLLOWING cab/chassis, dump body, plow gear and wetting system. Plow controls ground speed controls manuals			
64	One (l)Complete hard copy parts manual for EACH OF THE FOLLOWING cab/chassis, dump body, plow gear and wetting system			
65	One (1) Hard copy Operating manual and manuals for EACH OF THE FOLLOWING cab/chassis, dump body, plow gear and wetting system. Plow controls grounded speed controls manuals.			
	WARRANTY	**Yes**	**No**	**Var.**
66	Minimum Warranty 5 years, 100,000 miles and MUST COVER DIANOSTIC'S 100% and 5000 hrs for all engine electronics, including injectors.			

67	Optional extended warranty, 8 years or 150,000-miles MUST COVER DIANOSTIC'S 100%			
	SIDE DUMP BODY	**Yes**	**No**	**Var.**
68	Heavy Duty 205,000 lb psi steel body serving as spreader or dump, transformed by a hydraulic tilting floor. 14 foot.			
69	Sides, chain cover, tailgate, headboard- 3/16" inch thick 205,000 psi steel			
70	Floor- 3/16" inch thick Hardox 450 Steel (205,000) P.S.I. minimum			
71	Min. 12 cubic yard capacity water level; 14ft length. With 14'x88" inside dimensions			
72	Min 39" inch side height			
73	Body shall be 205,000 psi, including floor made of Min 3/16" Hardox 450 with 201 stainless steel corner posts			
74	Min 60"-inch tailgate height.			
75	Cab shield 24"			
76	Tailgate constructed of 205,000 psi steel			
77	Tailgate top ears made of .5" steel min.			
78	Tailgate will be 6 panel double acting design. Tailgate will be level with floor when horizontal.			
79	Tailgate top and bottom pins made of 1.25"cold roll steel			
80	Tailgate shall be air operated			
81	Tailgate shall have one (1) coal door on tailgate.			
82	Body and Tailgate must be mounted to frame square, level and balanced according to industry specifications for best practices. 60/40			
83	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 grease fittings for all lube to body.			
84	Donovan EL1500, or approved equal. Electrically operated load cover- installed w/asphalt tarp and hold down hoop. Require removable arms.			
85	Mud flaps mounted to dump body in front and rear of drive tires. Do Not mount to frame.			
86	Full Remote Grease Systems using 3000 PSI hydraulic hoses, installed in min. of 2 junction boxes one mounted on each side of body, for every grease fitting.			
87	Ladder mounted driver side dump body. Welded to body towards front. Telescoping design with pin lever for operation. Lowest step even with dump body bottom when telescoped, two steps below body bottom when extended. Self contained unit.			
	HOIST	**Yes**	**No**	**Var.**
88	Front telescopic hoist single acting, 30 ton power up gravity down with five year warranty			
	FRONT HITCH	**Yes**	**No**	**Var.**
89	Heavy duty tilting front hitch with cable front post. With 6 degree set back of angle			
90	Equivalent to Tenco Model H345-FFC52 or approved equal.			
	ATTACHMENT PLATES	**Yes**	**No**	**Var.**
91	There shall be two side plates extending from the chassis frame rails to the bottom of the hitch			
92	Side plates shall be oversized for a dual rear axle trucks. Min ¾"			
93	Drop plates of) .5," 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.			
94	Pinned to each side of the drop plates are 3.5" x 3.25 ", 1/2" 'angles to serve as the hitch portion of the tilting hitch.			
95	Tilting angles shall be welded to the structural tubes of the hitch or approved equal.			
96	Hitch shall tilt forward for engine access with gear attached when two top pins are removed.			
97	Hitch shall be removable when all four hitch pins are removed.			

	HITCH FRAME	Yes	No	Var.
98	Hitch frame constructed of two horizontal tubes and two vertical angles			
99	Horizontal tubes are to be 3" x 5" x 3/8" structural tubes. Vertical angles to be 3x4x3/8".			
100	The base end of the vertical angles, in conjunction with a 3.5"x.5", " bent flat, shall have a provision for three pinning heights for front plow attachment			
101	Top of verticals shall incorporate a 3" x 3" x 3/8" steel angle to serve as a support for the plow lift hinge			
102	The plow lift hinge shall be flame cut from .75" steel plate min... The lift cylinder shall have a stroke of 12" min. and be doubled acting.			
103	Cylinder tube: 4" diameter			
104	Cylinder shaft: 2" diameter			
105	Cylinder shall be nitrated coating on rod with a minimum of 3 year warranty			
106	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.			
	FRONT POST	**Yes**	**No**	**Var.**
107	Front wing shall contain a cable front post, sliding plate of .75", to center lift the nose of the wing. With a 30% timbron block system.			
108	The sliding plate shall be raised and lowered by a cable system , 36" double acting cylinder			
109	The cylinder shall provide for 52" of slide travel. The cylinder shall raise and lower the front slide through use of a.5" cable and sheave arrangement			
110	The cylinder shall be located behind the front post for protection from damage.			
111	Cylinder tube= 2.5" diameter. Shaft= 1.5," diameter, 8" convex mirror on front post per APW direction			
112	Cylinder shall be nitrated coated rod with a minimum of 3 year warranty.			
113	Front post shall be manufactured from 6" I-beam @ 12.5 lbs/ft. Full welded seam on all beams			
114	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" x5" x 3/8" structural tub reinforced with 3/8" plate.			
115	I-beam post *to* be welded in 3/8" brackets at end of each tubular brace.			
116	Post is to be further supported by a 3" x3" x 3/8" upper brace			
	FINISH	**Yes**	**No**	**Var.**
117	All steel to be sandblasted, primed with an epoxy primer and painted black			
	MISC. FRONT POST	**Yes**	**No**	**Var.**
118	One set of Halogen plow lights shall be included. ICC light package in accordance with DOT. Please use Truck Lite brand (S/T/T 6050, B/U 6060c, Strobe 60120YL, Plow L 80810, R 80820 bulb# H6545) Warranty 1 year			
	REAR WING TOWER	**Yes**	**No**	**Var.**
119	Shelving type cable rear wing tower			
120	Rear tower post height no less than 60 inches			
121	Rear wing post shall contain a ¾ "cable assist sliding plate to lift the wing arm from shelving			
122	The sliding plate shall be raised and lowered by a 60" stroke double acting cylinder			
123	Cylinder tube: 2.5" diameter. Shaft: 1.5" diameter. Cylinder *to* be nitrated with a 3 year warrant			
124	Rear wing post shall have a two point attachment for top and bottom push arm attachments			
125	Rear post shall be manufactured from 8" I-Beam@ 23 lbs./ft.			
126	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.			

127	Attach tower assembly to truck frame with a minimum 4" x 6" x .5" angle welded to the outside of the frame			
128	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.			
	WING ARMS AND LIFT CYCLNDER	**Yes**	**No**	**Var.**
129	Push arms are to be adjustable in length to provide variable cleaning path widths.			
130	Upper arm inner shaft: 2.75"diameter			
131	Upper arm outer tube: 3" diameter schedule 80 pipe.			
132	Lower arm inner shaft: 2.25" diameter			
133	Lower arm outer tube: 2.5" diameter schedule 80 pipe.			
134	Truck side ends to have "U" shaped receiver and universal joints			
135	Wing side ends pin into receiver on backside of wing moldboard			
136	Bottom arm contains a compression spring mounted between the tube and the shaft			
137	Wing arm lift cylinder is located behind the rear post and has a stroke of 27" Min			
138	The cylinder shall utilize a series of pulleys and cable for raising and lowering rear of wing.			
139	All cylinders to have nitrated coated rods with a 3 year warranty.			
140	Cylinder tube: 3.5" diameter			
141	Cylinder shaft: 1.75 "diameter			
	FINISH	**Yes**	**No**	**Var.**
142	All Steel to be sandblasted, primed with epoxy primer and painted black.			
	MISC.	**Yes**	**No**	**Var.**
143	Parts manual and maintenance manual to be provided			
144	All components shall carry a Min THREE-YEAR warranty.			
	HYDRAULIC	**Yes**	**No**	**Var.**
145	Heavy Duty load sensing piston pump, 36 GPM min. @ 1200RPM, with low oil sensor and automatic shutdown valve with override switch installed in dash, stainless steel hydraulic lines plumbed to front and to rear, 40 gallon hydraulic tank with sight gauge and filter, Walvoil electric spool valves to operate all functions and electric Hydraforce sander valve with separate chain and spinner cartridges, or approved equal (same as last 6 trucks)			
	SHOP MANUAL	**Yes**	**No**	**Var.**
146	One (1) Complete hard copy shop repair manual and One (1) CD manual for EACH OF THE FOLLOWING dump body, plow gear and wetting system			
147	One (l)Complete hard copy Parts manual and One (1) CD manual for EACH OF THE FOLLOWING dump body, plow gear and wetting system			
148	One (1) Hard copy Operating manual and One (1) CD manual for EACH OF THE FOLLOWING dump body, plow gear and wetting system			
149	All hydraulic cylinders including hoist shall have a five year warranty			
	OTHER EQUIPMENT	**Yes**	**No**	**Var.**
150	Cirus Uni-grip 620 Electric joystick control, 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.			

151	Cirus Spreadsmart Rx auto sander control system, or approved equal, with wireless drive by base station and data access, GPS, prescription spreading, no speedo mode for operation without rate sensor, self diagnostics and windows based program, with road temperature sensor mounted in armrest, 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.			
152	Option; other approved spreader options will be considered.			
153	Closed circuit camera system- Clarion CC-85168 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 Color 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.			
154	Auxiliary wiring such as switched and wiring shall be mounted in the cab with the switches next to the ignition switch, fuse box bunted next to O.E.M. fuse panel and the relax mounted on the rear cab wall Auxiliary wiring to be wired to builders box installed/mounted behind passenger seat. Factory Option installed, must have Multiplex.			
155	Six pre-wired electrical switches for body connection, factory setup/install.			
156	Wiring Harness for plow headlights, factory installed no add-ons.			
157	All electrical wires color coded and numbered			
158	Spare tire- (tire and rim) to be mounted and provided upon delivery.			
	SPECIFICATIONS FOR SNOW PLOW EQUIPMENT	**Yes**	**No**	**Var.**
158A	Glad hands installed to pintle plate			
	FRONT PLOW	**Yes**	**No**	**Var.**
159	Heavy Duty power reversing 11ft trip edge poly plow, or approved equal -compression springs for trip mechanism, torsion bar springs not acceptable			
	-three piece trip edge, cable self leveling mechanism			
	-two curb shoes			
	- 4" x 4" structural tube framing 3/8" thick			
160	Overall length 11ft,height 42"			
161	Clearing path @ 30 degrees: 9' 6"			
162	Moldboard constructed from no less than 10 gauge high strength carbon steel with cut outs to accept a polymer moldboard sheet			
163	Moldboard shall be rolled from design			
164	Moldboard skin is high-density polymer (Tenelene) .300 think with an orange front and black back			
165	Leading edge of moldboard shall be reinforced with a 1.5" x 2.5" x .25" rectangular tube running the full length of the top of the moldboard.			
166	Moldboard enforcement with no less than seven full-length 3/8" ribs. Bottom of ribs shall be welded to a 4" x 7" x .5" boxed hinged and spring support.			
167	Backer angle shall be minimum 4" x 4" x 3/4" thick A-35 angle iron with.25" gussets.			
168	Attack angle of moldboard is adjustable to 10, 15, and 20 degrees by the use of two adjusting braces.			
	TRIP MECHANISM	**Yes**	**No**	**Var.**
169	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			

170	The hinges shall be located midway down the trip section. Top mount hinge locations are not acceptable.			
171	The trip sections shall have the ability to be both, one-section or three sections.			
172	The trip sections shall be reset, after hitting an obstruction, by six coil-springs mounted vertically behind the trip section. Horizontal torsion springs are not acceptable.			
173	Trip springs shall be 7/8" diameter wire and have a minimum of 8 coils			
174	Springs shall be attached from backer angle to mainframe via 2" diameter rods			
175	Each spring shall have two retainer holes for spring tension adjustments.			
	FRONT PLOW CUTTING EDGE	**Yes**	**No**	**Var.**
176	Moldboard shall be punched to accept 8" and 12" punched cutting edges			
177	Plow shall be complete with Black Cat "bull nose" carbide blades and cover blade 5/8"			
178	Two moldboard shoes shall be supplied			
179	Tow curb shoes shall be supplied			
	PUSH FRAME	**Yes**	**No**	**Var.**
180	Truss frame pins to moldboard with no less than four 1.25" diameter pins.			
181	Truss frame constructed from 4" x 4" x 3/8" wall square tubing			
182	The reversible A -Frame table shall be flame cut from *.5"* plate and shall be 9" wide and reinforced with 3/8" plate			
183	The A-Frame shall pin to the truss with a 1.5,*"* diameter pin.			
184	Oscillating bar support plate constructed from .75" x 4" x 42" steel plate with stops made from steel dowels sandwiched between the oscillating bar and .75""" steel plates.			
185	Plow shall pin to hitch with two 1" ears on 30.5 "centers. Option Tenco locks			
	REVERSING PLOW	**Yes**	**No**	**Var.**
186	Reversing shall be achieved with two double acting cylinders.			
187	Cylinders shall be 3" in diameter with a 1.5" *rod* and 20" stroke.			
188	Cylinders shall have nitrated rods for corrosion resistance. Chrome plated cylinder rods are NOT ACCETABLE			
198	Cylinders shall be equal to Mailhot cylinders and a 3 year warranty.			
199	A built in cushion valve shall be provided for cylinder protection.	**Yes**	**No**	**Var.**
	LIFTING DEVICE			
200	Lifting device shall be pulley and cable design. Design shall allow plow to lift with minimum of list			
201	Plow will have a rubber snow deflector dropping below the top most portion of the plow by 18"			
	FRONT PLOW HITCH	**Yes**	**No**	**Var.**
202	Heavy-duty tilting front hitch with cable front post.			
203	Heavy duty detachable full wing tower unit			
204	Tenco FFC52 cable front post, with 30% Timbon block trip mechanism			
205	Power tilt and detach front hitch,			
206	Tenco FRC60 cable rear post with curved rear armature to customize the angle of the rear post to be perpendicular to the push arms			
207	Extra heavy duty wing arms with spot light mounted on wing post			
208	Plow will come with cutting edges with carbide inserts and 5/8"cover blade			
209	Punch pattern to be 3 *I* 3 *I* 12			
	Tenco locks/ 8 inch convex mirror mounted to front lift post, per APW direction			

	SIDE WING ATTACHMENT	Yes	No	Var.
210	Heavy duty 10ft (10 ft cutting edge) wing suitable for patrol or leveling operations. Cable operated.			
211	Complete installation to chassis			
212	Heavy-duty 3/16"steel moldboard			
213	Five(5) full-length 3/8" horizontal reinforcements			
214	Option: Travel wing positioner.			
215	Back of wing shall incorporate integral float			
216	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.			
217	Backer angle shall be a minimum 4" x6" x *5/8"* thick A-36 angle iron with,.5" gussets.			
218	Leading edge of moldboard shall be reinforced with a 3"x3"x3/8" angle running the full length of the top of the wing.			
219	Leader shall be a 1" steel plate with two holes to accept a 1.25" bolt.			
	CUTTING EDGE	**Yes**	**No**	**Var.**
220	Moldboard shall be punched to accept both 8" and 12" punched cutting edges			
221	*5/8"* Carbide edges and cover plate			
222	Plow shall be complete with carbide and cover cutting edge, 18 inch snow foil.			
223	Two moldboard shoes shall be provided			
	FINISH	**Yes**	**No**	**Var.**
224	All steel shall be sandblasted			
225	All steel shall be primed with an epoxy primer			
226	Moldboard shall be painted Black on the face and backside			
	WARRANTY	**Yes**	**No**	**Var.**
227	Wing shall carry a One-Year warranty			
228	Tenco electric calcium system, or approved equal, electrically operated with 160 gallon tank built into the headboard of the body and controlled by the sander control system. Tank to have sight glass built in for filling. Fill control on drivers' side top. Drain valve driver's side bottom. Vent relief valve equal size to fill spout.			
	MISC. WARRANTY	**Yes**	**No**	**Var.**
229	One parts manual and maintenance manual shall be provided			
	SPECIFICATIONS FOR A STROBE SYSTEM FOR HIGHWAY VEHICLE			
	CAB	**Yes**	**No**	**Var.**
230	The strobe light system for the cab shall consist of 1-12 volt LED strobe with independent switch to be located in the cab			
	REAR STROBE LIGHT HEAD ASSEMBLIES	**Yes**	**No**	**Var.**
231	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 a combination of standard and LED lights. And configured as follows: Top: LED strobe Truck Lite #60120Y; Middle: stop, Turn, & tail Truck Lite # 6050; Bottom: reserve Truck Lite #6060C			
232	All lights shall be 12 volt, self-contained. Independent strobe switches to located in cab. The rear mounted head assemblies shall use oblong rubber grommet mounts.			
	WARRANTY	**Yes**	**No**	**Var.**
	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.			
233	Minimum Warranty 5 years, 100,000 miles and MUST COVER DIAGNOSTIC'S 100% on any and all equipment *I* systems installed by body company.			
	SERVICE DEPARTMENT	**Yes**	**No**	**Var.**
235	Customer Service Department available 24hrs *I* 7 (Please attach service hours if not available)			
236	Service rates applied on hourly basis. (Please attach service labor rate, emergency rates, discounts, etc.)			
237	Parts and Service available via onsite support and delivery. (please attach detail of onsite support and parts procurement process)			

BID PROPOSAL

The undersigned proposes to furnish one (1`) Model Year 2014 66,000 G.V.W. 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.

One (1) MODEL 2014 DUMP TRUCK 66,000 G.V.W.
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 Trade:

One (1) 2000 International 12 cy bodytruck to include: dump body 1 front plow, 1 wing gear, (where is, as is, no implied guarantee at time of trade-in.) $ _____

One (1) International recycling truck, Model 7400, unit #83 (where is, as is, no implied guarantee at time of trade-in.) $ _____

A) Cirus Uni-grip 620 electric joystick or approved equal $ _____

B) Cirus Spreadsmart Rx auto sander control or approved equal $ _____

C) Clarion CC-8516B camera or approved equal $ _____

D) Auxiliary wiring: $ _____

Six pre-wired electrical switches for body connection

Wiring harness for plows headlights

All electrical wires color coded and numbered

E) Tencolocs or equivalent $ _____

Total Other Equipment $ _____

Make and Model and Year - Other Equipment: _____

Net FOB Auburn Highway Garage (Total Price) $ _____

Delivery Date: _____

Name of Company: _____

Signed by: _____

Print Name: _____

Title: _____

Address: _____

_____

Telephone number: _____ Fax number: _____

Date: _____

e-mail: _____