



## INVITATION TO BID

### FINANCE DEPARTMENT

ELLEN L. SANBORN  
Finance Director

COLLEEN C. SELBERG  
Purchasing Agent

Bid #12-22

### **TWO (2) SINGLE AXLE TRUCKS EACH WITH PLOW, WING, SANDER, AND STANDALONE**

Sealed bids for furnishing Two (2) Single Axle Trucks to the City of South Portland, Maine as specified below, in the attached specifications and proposal, will be received by the City Purchasing Agent, 25 Cottage Road, South Portland, Maine 04106, until 2:45 pm., Thursday, August 12, 2021 at which time, they will be publicly opened and read aloud. Proposals received after that date and time will not be considered.

Bids shall be submitted on the attached bid form in sealed envelopes, plainly marked "Bid #12-22 Two Single Axle Trucks" and shall be addressed to the Purchasing Agent at the above address.

Delivery to be made upon receipt of purchase order and shall be F.O.B., Public Works Department, 929 Highland Avenue, South Portland, Maine.

All equipment offered on this bid should be new and the latest type available. Bidder will state in his bid the name and model number of the equipment he is offering and will include with his bid a catalog or brochure marked to indicate the standard factory equipment of the model on which he is bidding.

**Bidder must attach a separate sheet to his bid listing any deviation from the minimum specifications shown. If no attachment is provided, it will be assumed that the item being bid meets the minimum specifications.**

If the equipment offered by a bidder under the attached specifications meets the specifications except for minor factors or reasonably small amounts in dimensions, and if it shall be determined by the City that these minor variations from the specifications do not prevent the equipment being bid from performing as satisfactorily or from being as good as equipment fully meeting these specifications, then these minor variations from the specifications may be waived by the City, if it deems it to be to its advantage, and the equipment with the waived variations in specifications will be accepted as fully meeting these specifications.

Bid award will be based on the low bidder meeting specifications. It is the City's intent to award to one vendor. The City reserves the right to award any or all of the listed accessories.

Since a prompt delivery is required, delivery time as well as price may be a factor in determining the award of this bid.

Price shall include a 14-day plate and State of Maine Certificate of Title or Certificate of Origin, which shall be made out to the City of South Portland, Maine and mailed to the Purchasing Agent, 25 Cottage Road, South Portland, Me 04106. A copy of the title application is to be delivered with each vehicle.

There shall be, within the Greater Portland area, a repair service which shall maintain a stock of spare parts for any make and model of any vehicle that a bidder offers in the proposal

If your business is a foreign corporation, limited liability company, limited partnership and or limited liability partnership, you must include with your bid, proof from the Maine Secretary of State's office that you are qualified to do business in the State of Maine.

It is the custom of the City of South Portland to pay its bills within 20 to 30 days following delivery of and receipt of bills for all items covered by the purchase order. In submitting bids under attached specifications, bidders should take into consideration all discounts, both trade and time, allowed in accordance with the above payment policy. All bidders should quote net prices, therefore, exclusive of all Federal Excise Taxes and Sales Taxes.

The City of South Portland reserves the right to waive all informalities in bids, to accept any bid or any portion thereof, or to reject any or all bids should it be deemed in its best interest to do so. Except as otherwise required by law or as specifically provided to the contrary herein, the City shall govern the award of this bid's purchasing ordinance.

Colleen C. Selberg  
Purchasing Agent

Mailing address: P.O. Box 9422, South Portland, ME 04116-9422  
Telephone (207) 767-3201 Fax (207) 767-7620

## **TWO (2) SINGLE AXLE TRUCKS EACH WITH PLOW, WING, SANDER, AND STANDALONE**

This specification is intended to **TWO (2) SINGLE AXLE TRUCKS EACH WITH PLOW, WING, SANDER, AND STANDALONE (NO DEMO OR USED)** to be used for various functions in the Public Works Department. These vehicles will be regular production model for which published specifications are available. Modifications of the vehicle to meet operational requirements of this specification shall be limited to the manufacturers published and optional standards.

Bidders shall list and explain in writing any and all deviations from these specifications. Bidders shall provide sufficient detail and proof needed to assist the city in fully evaluating compliance with detailed specifications. Failure to do so may result in rejection of the bid in its entirety.

### **General Specifications**

These Specifications is intended for Two (2) New or Current Year (No Demos or Used) Single Axle Trucks each with a Plow/Wing, Sander, and Standalone and is to conform to all EPA and DOT regulations in effect at the time of delivery. The vehicle shall be equipped with all standard equipment, components, and safety features necessary for operation and normally supplied, even if not identified in specifications. The equipment shall have full manufacturer's preparation, title, and be ready for service upon delivery. The equipment shall come with a full warranty and option of extended warranty.

The equipment will be delivered with all the proper paperwork to insure and register the equipment in a timely manner.

## TWO (2) SINGLE AXLE TRUCKS

Bidder shall check the yes box if they comply or the no box if they are taking exception to that line item. All exceptions must be clearly explained in the bid materials. This page must be submitted along with the Bid Form.	COMPLIANCE	
	YES	NO
Cab: White painted Conventional Day Cab		
Engine: Cummins L9 330 EPA 2021, 330 HP @ 2200 RPM, 1000-lb Torque @ 1200 RPM		
Federal emission (Cummins L9) EPA, OBD and GHG Certified for calendar year 2021		
Transmission: Allison 3500 RDS 5th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000 lb. GVW and GCW Max, On/Off Highway		
Shift control parameter 3000 or 4000 series transmission. 3 speed S1 Secondary shift schedule for 5 or 6 speed. Transmission shift control column mounted stalk shifter.		
Dimension: Wheelbase: 181.00, CA: 106.00, Axle to Frame: 63.00		
Allison spare input/output for rugged duty series and regional haul series, general purpose trucks, construction		
Neutral at stop		
Fuel tank straps		
Fuel/water separator		
Fuel tank Top Draw, non-polished aluminum, d-style, 19" tank depth, 70 US GAL		
DEF Tank 7 US GAL (26L) capacity		
Suspension, Rear, Single: 31,000 capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Multileaf Springs		
Axle: (Front) non-driving wide track, i-beam type, 18,000-lb capacity. (Rear) single reduction, 26,000-lb, Drive controlled locking differential, R Wheel Ends Gear Ratio: 6.14		
Axle configuration 4x2		
Tire: (Front) (3) 12R22.5 Load Range H HSR2 (Continental) All-position		
Tire: (Rear) (4) 11R22.5 Load Range H HDR2+ (Continental) Drive		
Spare front and rear tire on wheels		
Frame rails heat treated alloy steel		
Front bumper heavy duty steel		
Front shock absorbers		
Front suspension, spring multileaf, shackle type, 18,000-lb capacity, less shock absorbers		

Springs, Front Auxiliary Air Bag, Right Side Only, Driver Control		
Brake system, air dual system for straight truck applications		
Drain valve with pull chain, for air tank		
Air pressure gauges		
Air brakes (Bendix Antilock Brake System) 4-channel (4 sensor/4 modular) full vehicle wheel control system		
Air Dryer (Bendix AD-9) with heater		
Rear Axle brake chambers, Bendix Eversure 30/30 Sqln Spring brake		
Front axle brake chambers, Bendix, 24 Sqln		
Slack Adjuster front and rear, Haldex Automatic Slacks		
Cummins Air compressor 18.7 CFM		
Dust shields for air cam brakes		
Rear brakes: (Bendix Spicer ES-165-7H) Air S-Cam Type, Heavy Duty Cast Spider, Cast Shoe, Double Anchor Pin, Size 16.5" x 7", 45,000-lb capacity per Axle		
Front brakes: (Bendix Spicer ES-165-6X) Air S-Cam Type, Heavy Duty Fabricated Spider, fabricated shoe, single anchor pin, size 16.5" x 6", 23,000-lb capacity		
Steering column tilting		
Steering wheel 4-spoke; 18" Dia. Black		
Steering gear (Sheppard M100/M80) Dual Power		
Driveline system (Dana Spicer) 1710, for 4x2/6x2		
Steel black after treatment cover		
Emission compliance low NOx Idle Engine		
Exhaust system: Horizontal after treatment system, frame mounted right side under cab, for single vertical tail pipe, frame mounted right side back of cab.		
Tail pipe turn back type		
Exhaust height 10'		
Muffler/tail pipe guard (1) Aluminum		
Electrical system 12-Volt		
Battery system: Maintenance free (3) 12-volt 2850CCA total, top threaded stud		
Battery disconnect switch: 300 Amp, disconnects charging circuits, locks with padlock, batter box mounted.		
Battery box steel, with fiberglass cover, 2-4 battery capacity		
Data link connector for vehicle programming and diagnostics in cab		
hazard switch push on/off		
Headlight dimmer switch integral with turn signal lever		
Parking light integral with front turn signal and rear tail light		
starter switch electric, key operated		
stop, turn, tail, & Backup lights dual, rear, combination with reflector		

Turn signals, front includes LED side turn lights mounted on fender. Turn signal switch self-canceling for trucks		
Windshield wipers. Windshield wipers speed control.		
Wiring, chassis color coded and continuously numbered		
Alternator: Brush type, 12 volt, 160 Amp capacity, pad mount, with remote sense		
Body builder wiring. Includes sealed connectors for tail/amber, turn/marker/backup/accessory, power/ground and sealed connector for stop/turn		
2-way radio wiring; wiring with 20 amp fuse protection, includes ignition wire with 5 amp fuse, wire ends heat shrink and routed to center of header console in cab		
Speakers (2) 6.5" dual cone mounted in both doors, (2) 5.25" dual cone mounted in both b-pillars		
Radio AM/FM/Clock/WB/Bluetooth/USB Input/Axillary Input		
Backup alarm electric		
Auxiliary harness 3.0' for auxiliary front head lights and turn signals for front plow applications		
Switch, auxiliary accessory control; for wiring in roof with maximum of 20 amp load with switches in instrument panel		
Electric horn disc style		
Switch, body circuits, MID with remote power module mounted in cab, up to 6 outputs and 6 inputs, max 20 amp per channel, max 80 amp total, includes 1 switch pack with momentary switches		
Clearance/marker lights amber LED lights, flush mounted on cab or sunshade		
Starting motor 12 Volt, less thermal over-crank protection		
Low coolant indicator with audible alarm		
Circuit breakers manual-reset (Main Panel) SAE Type III with trip indicators, replaces all fuses		
Horn: Air single trumpet, black		
Power source, additional auxiliary power outlet (APO) & USB Port		
Hoot Hatch for serving - left and right side		
Insulation, under hood for sound abatement		
Grille stationary, chrome		
Insulation, splash panels for sound abatement		
Bug screen mounted behind grille		
Front end tilting, fiberglass with three piece construction		
Anti-freeze Red, extended life coolant, Freeze Protection		
PTO Effects, engine front less PTO Unit, Includes adapter plate on engine front mounted		
Fan Drive two-speed type, direct drive, with residual torque device for disengaged fan speed		

Radiator: aluminum, cross flow, front to back system, 1228 Sqn. with 1167 Sqn. Charge Air Cooler, included in-tank oil cooler. Radiator hoses premium rubber		
Deaeration system with surge tank		
Hose clamps, radiator hoses gates shrink band type thermoplastic coolant hose clamps		
Air cleaner single element with integral snow valve and in-cab control		
Throttle, hand control engine speed control; electronic, stationary, variable speed; mounted on steering wheel		
Accessory wiring		
Engine control, remote mounted		
Block heater, engine 120V/1000W with Y Cord for dealer installed 120V/300W oil Pan Heater		
Block heater socket receptacle type		
Air conditioner with integral heater and defroster		
Gauge cluster: Speedometer, tachometer, for air brake chassis. Engine coolant temp, primary and secondary air pressure, fuel and DEF gauges, oil pressure gauge		
Gauge : Oil Temp		
Gauge: Air cleaner restriction		
IP Cluster display on board diagnostics display of fault codes in gauge cluster		
Driver seat: air suspension, hi back, cloth facing/vinyl boxing, 1 inboard arm rest, isolator, adjuster, 3 chamber lumbar, 6 way front adj., 2 way rear adj., side bolster, heated, vinyl suspension cover		
Passenger seat: non suspension, high back, fixed back, integral headrest, cloth		
Convex mirror hood mounted (2) right and left sides, black, heated, 7.5" sq.		
Mirrors (2) C-loop, heated, black heads and arms, 7.5" x 14" flat glass, includes 7.5" x 7" Convex mirrors, for 102" load width		
Mirror convex, look down right side, black, 6" x 10.5"		
Cab interior trim diamond, for day cab		
Console, overhead molded plastic with dual storage pockets, retainer nets and CB radio pocket		
Dome Light		
Sun Visors		
Windshield heated, single piece		
Power windows and power door locks		
Cab rear suspension air bag type		
Instrument panel		
Sunshade, exterior aerodynamic, painted roof color, with integral clearance/marker lights		
Access: Cab steel, driver & Passenger sides, two steps per door		

Wheel, Spare, Disc 22.5x8.25 Rims powder coated steel, 5-hand hole, 10-stud, hub piloted, steel hubs		
Wheel, Front, Disc 22.5x8.25 Rims powder coated steel, 5-hand hole, 10-stud, hub piloted, steel hubs		
Triangle reflectors and Fire extinguisher		
Spare Rear Tire and Wheel		
Strobe light - one green and one amber - top mount on cab/as well as rear bumper		
Extended frame to receive plow package		
Splash panels		
Mud Flaps (all black, no advertising)		
Motorola M1225 4-channel mobile radio set up with frequencies used by the department with Antenex B132S antenna shall be installed by the City's vendor and billed to the supplier of the vehicles (whomever is awarded the bid). City staff will choose the location of the radio in the cab.		
Back up camera		
<b><u>Warranty:</u></b>		
Standard warranty		
<b><u>Manuals:</u></b>		
Shop, parts, engine, electrical, service, and safety manuals shall be provided.		
All manuals shall be provided in hard copy and electronic formats		



**TWO (2) PLOWS, TWO (2) WINGS, TWO (2) SANDERS,  
AND TWO (2) STANDALONES SPECIFICATIONS**

Bidder shall check the yes box if they comply or the no box if they are taking exception to that line item. All exceptions must be clearly explained in the bid materials. This page must be submitted along with the Bid Form.	COMPLIANCE	
	YES	NO
<b><u>Dump Body</u></b>		
Beau Rock 10'Dump Body SSM4-10-36"x42'with (3) Coal Doors and Constructed of 7 Gauge Type 304 Stainless steel with Hardox 450 Floor. Coal doors to open bottom up (see image example at end of bid specs)		
Backup camera		
Telescopic Hoist		
Electrical Plug		
Us Electric Cover with Asphalt Tarp and Hoop		
Double Acting Air Tailgate, 36" Sides, 42"Tailgate		
<b><u>Hitch and Wing System</u></b>		
Hitch to be a J Hook design.		
Double acting cylinder for plow lift		
Three plow pin heights shall be provided		
Two horizontal tubes shall extend outward to the passenger side of the chassis to serve as support for the front wing post		
All vertical and horizontal supports shall be of tubular construction for strength. Angle iron construction shall be deemed insufficient		
The front wing post shall be bolted to the hitch.		
Front slide travel shall be actuated by a hydraulic cylinder with cable and sheave		
The front slide will travel a minimum of 60 in.		
High Lift Patrol Wing Hydraulic Design		
A 10 in. beam shall tie both chassis frame rails together with the rear post		
The rear wing post shall have a three point attachment for top and bottom push arm and lift cylinder attachment		
The lift cylinder shall provide rear of wing lift and shall be supplied complete with adjustable flow restrictors to control the speed of the wing up & down		
The Cylinder shall be fitted with and integral counter balance valve at its base, so to protect against impact load and the possibility of the wing dropping due to pressure line failure		
Push arms are adjustable in length to provide variable clearing paths		

Lower wing arm should have a compression spring		
A trip block shall be mounted between the nose of the wing and the front post to allow the wing to trip over road obstacles		
The trip block shall be able to be locked out with a pin for shelving or unpinned to allow the wing to trip		
All hitch and wing mount gear shall be sandblasted		
Epoxy primed, and painted Black		
Custom Hitch Power Hook -Plow and Wing Mount (includes cylinder)		
<b><u>Wing</u></b>		
Cutting edge length: 10 ft.		
Overall Length: 11 ft.		
Wing Cutting Edge: (Qty 2) 5 ft. x 8 in. x 1 in. Standard top highway punch		
Moldboard constructed from 8 gauge high strength carbon steel and reinforced with full length ribs		
The wing shall be punched 12 in. on center. Standard top Highway punch		
Wing shall come complete with Standard Edge		
Wing should come with Heavy Duty Wing Arms		
The wing shall be sand blasted, epoxy primed, painted orange		
Curb Savers		
Front wing post: FH20 Hydraulic Assembly w/mtg. bracket (3 x 20 cyl.)		
Rear Mast H1059IP RH Assy. CSS		
30-1/2" push lug swivel		
Dead Sheave Leveling Device (stainless steel cable)		
<b><u>Plow</u></b>		
Shall be a High Speed One Way Reversible Trip Edge		
Cutting edge length: 11 ft.		
Plow Cutting Edge: (Qty 1) 6 ft. x 8 in. x 1 in. standard top highway punch		
Plow Cutting Edge: (Qty 1) 5 ft. x 8 in. x 1 in. standard top highway punch		
Moldboard Nose Height: 28 in.		
Moldboard Discharge Height: 52 in. Moldboard shall constructed of 8 gauge, with (8) 1/2 in. Ribs		
Plow shall be punched 12 in. on center		
The plow shall come with standard top Punch edge		
A rubber deflector shall be attached to the leading edge of the moldboard		
Plow drive frame shall be of box tube construction and shall have two cushion valve protected cylinders for reversing the moldboard		

Plow shall pin to hitch on standard 30 ½ in. centers		
There shall be a Dead Sheave Leveling Device Lift		
The moldboard shall painted Orange		
Should have (2) moldboard shoes and (2) Curb Shoe		
Moldboard reinforcing structure and drive frame steel shall be painted black		
Power Hook Plow Half - 30-1/2" push centers		
Curb Savers		
Access Step on plow frame to check oils		
4" x 10" DA Lift Cylinder		
Plow Hooks on plow frame: Push Center, 30-1/2"		
Twin Cylinder (cushion valve) Power Reverse Push frame (PRR)		
Brace Arm - for Straight and Flare Reversibles & OW3153TE9 (pair)		
Rubber Deflector -12" wide - for 11' Moldboard		
10 Degree Moldboard Shoes (pair)		
Lift group		
SAE "C" 2 bolt (constant running pump)		
Hose Connecting Bracket w/restrictor, fittings and disconnects		
<b><u>Hydraulics</u></b>		
Hydraulics To Include: Cirus Package consisting of Spread Smart Sander Control with Knobs, MS320 Multi Stick Controls, Armadillo Arm Rest, Power Smart Centralized System, Enclosure for Mako, Eaton Pump, Visala Temperature Sensor, Hydraulic Calcium Pump, Valves, Hydraulic Tank Behind Cab, Hose Kit, Stainless Steel Hydraulic Lines Where Feasible.		
<b><u>Lighting</u></b>		
Standard Plow Lights, LED Amber/Green Strobes Front and Sides of Headboard, LED Amber/Green Strobes, Stop/Tail/Turn/Back up Lights in Rear Corner Posts, LED Sander and Wing Lights, LED Arrow Board for Sander.		
<b><u>Slip in Sander</u></b>		
Downeaster 10 Stainless Steel Sander, Screens, Tailgate Lock		
Viking 10' Sander Stand		
(2) 90 gallon Calcium Tanks		
Cirus Hydraulic Calcium Pump		
Painted Black Sander Leg Stand, standalone leg stand for summer storage.		
<b><u>Warranty:</u></b>		
Standard warranty		

<b><u>Manuals:</u></b>		
Shop, parts, engine, electrical, service, and safety manuals shall be provided.		
All manuals shall be provided in hard copy and electronic formats		

<b><u>Training:</u></b>		
Training of employees on the Cirus controls by vendor		

**Coal Door Opening Example:**



**TWO (2) SINGLE AXLE TRUCKS  
EACH WITH A PLOW/WING, SANDER, STANDALONE**

**BID PROPOSAL SHEET**

Two (2) New or Current Year (No Demos or Used) Single Axle Trucks  
each with Plow/Wing, Sander, and Standalone \$ \_\_\_\_\_

*Optional Additional Warranty:* \$ \_\_\_\_\_

Year, Make, & Model # \_\_\_\_\_

Color \_\_\_\_\_ Odometer Reading \_\_\_\_\_

Warranty \_\_\_\_\_

Delivery Time \_\_\_\_\_

Signed: \_\_\_\_\_

(Corporation, Firm or Company)

By: \_\_\_\_\_

(Officer, Authorized Individual or Owner)

Title: \_\_\_\_\_

Mailing Address (including Zip Code): \_\_\_\_\_

\_\_\_\_\_

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

Telephone: \_\_\_\_\_

Email: \_\_\_\_\_

Note: Bids must bear the handwritten signature of a duly authorized member or employee of the organization  
making the bid.