

**TOWN OF GRAY
PUBLIC WORKS DEPARTMENT**

CONTRACT DOCUMENTS

FOR

SIDEWALK TRACTOR

JUNE 16, 2016

**STEVE LAVALLEE
PUBLIC WORKS DIRECTOR**

TOWN OF GRAY PUBLIC WORKS NOTICE TO BIDDERS

SEALED BIDS WILL BE RECEIVED at the Town of Gray's Clerk's Office, No. 24 Main Street, Gray, Maine 04039 until 10:00 A.M. on Thursday July 21, 2016, and then will be publicly opened and read aloud at for furnishing One (1) New 2016 Sidewalk Tractor with Accessories, in accordance with the Contract Documents on file with and which may be obtained at the Public Works Director's Office.

The Public Works Director will submit a report to the Town Council of all bids received and his recommendation concerning the awarding of a Contract at a meeting of the Town Council of the Town of Gray.

The Town Council reserves the right to waive any informalities in the bidding and to reject any and all bids.

No contract is deemed to have been created until approved by a Town Council Resolution and the Town Manager. All contracts are subject to appropriations approved by the Town Council, after having been provided for in the Town Budget.

By order of the Town Council of the Town of Gray.

DATED: June 16, 2016

STEVE LAVALLEE
PUBLIC WORKS DIRECTOR

DEBROAH CABANA
TOWN MANAGER

PROPOSAL

TO: TOWN COUNCIL, TOWN OF GRAY, TOWN HALL
24 MAIN STREET, GRAY, MAINE 04039

THE UNDERSIGNED, having a principal place of business at _____,

(Permanent street address is required if mailing address is different. Please include contact name and telephone number.), and being experienced and responsible for the performance of same, proposes to furnish and deliver to the Town of Gray, Highway Department, One (1) 2016 Sidewalk Tractor with Accessories, in accordance with the Specifications and Contract Documents hereto attached, as follows:

Item	Total Price
One (1) 2016 Sidewalk Tractor With Accessories & Extended Warranty	\$_____

ALTERNATE BID

Trade-In allowance if any, for a 2003 Trackless MT5 plus attachments. The Town may, at its sole discretion, consider the proposed trade-in allowance in awarding this contract. If the alternate bid is awarded, the proposed trade-in allowance will be deducted from the lump sum price proposed for the trackless vehicle. The vehicle will be available for inspection by appointment between the hours of 6 a.m. and 4 p.m., Monday-Thursday. Appointments may be made by calling (207) 657-3381.

Proposed Trade-In allowance \$_____

All bids will be honored for six (6) months from the date of the Agreement. Delivery shall be made within sixty (90) days from the date of notification of award.

It is understood that there must be a written contract executed by the Town Manager of the Town of Gray, pursuant to Town Council Resolution.

THIS IS SUBJECT TO APPROPRIATIONS APPROVED BY THE TOWN COUNCIL.

DATED: _____

NAME

TITLE

FIRM NAME

TELEPHONE NUMBER

SPECIFICATIONS FOR A MUNICIPAL/PARKS TRACTOR

Bid Qualification

To ensure that only those tractors that are of sufficient power, are not too large for operating on municipal sidewalks, have hydraulic capacity available to power attachments which may be purchased in the future, and are adaptable to existing attachments without modification etc., five mandatory specifications have been established.

The following five basic bid qualification specifications must be met in order to submit a bid. Bids will be rejected if these five mandatory specifications are not met.

1. A four-wheel drive articulating, oscillating, rubber tired, diesel powered multi-purpose tractor, designed for year round work shall be supplied.

MAKE _____
MODEL _____
YEAR _____
2. Tractor shall be no wider than 50-1/2 inches, including fenders and no higher than 79 inches to top of roof.

COMPLY _____
DO NOT COMPLY _____
3. Engine shall be a water-cooled diesel with 110 hp @ 2500 RPM. Bid will be accepted if engine HP is within 15% of desired minimum.

COMPLY _____
DO NOT COMPLY _____
4. Tractor shall have sufficient hydraulic capability to power hydraulically driven angle sweeper, cold planer or two mower wing decks as required on a 14 ft wide rotary mower.

COMPLY _____
DO NOT COMPLY _____
5. Tractor must be able to adapt to all Trackless attachments already owned by municipality without modification and/or different length PTO shafts.

COMPLY _____
DO NOT COMPLY _____

1. COMMERCIAL PRODUCTION VEHICLE

Model being offered must have been in "commercial production" for not less than 3 year. _____ YES

_____ NO

_____ SPECIFY

Bidder must submit a list of _6_ different municipalities in the Province / State, with contact names & telephone numbers, who currently own and operate 1 or more of the model offered.

2. DIMENSIONS

Dimensions are not to exceed the following:

Length to rear bumper 146.5 inches SPECIFY

Height to top of cab 80.0 inches SPECIFY

Track width (winter tires) 49.5 inches SPECIFY

Overall width with fenders 50.5 inches SPECIFY

3. ENGINE

The engine shall be a 4 cylinder turbo diesel, water cooled, not less than: REQUEST OFFERED

110 HP @ 2500 RPM

110 HP

3.9 L (239.3 cu. in.)

239 cu. in.

305 lb ft Torque @ 1500 RPM

305 lb ft @ 1500 RPM

The engine:

Must comply with Tier 2 EPA regulations and bear a certification label

YES

NO

Shall have a cold starting aid controlled by the ECM indicating when the engine is ready to start

YES

NO

Engine must have quick change air breather with precleaner mounted outside of engine compartment. Precleaner must have sight bowl.

YES

NO

Overhead panel must include an electronic diagnostic port for retrieval of engine and diagnostic information

YES

NO

ECM automatically derates the engine output if a problem is detected, such as high coolant temp or low oil pressure. If the condition worsens, the warning lamp will illuminate giving the operator 30 seconds to safely park the tractor before the engine shuts down.

YES

NO

4. ENGINE ACCESS

The side hoods shall have hinged access doors; top hood shall open independently. Quick, easy access to engine oil dipstick required.

YES

NO

SPECIFY

5. COOLING

Engine shall be water-cooled means of an 18" fan and radiator. Fan must

YES

NO

be enclosed in wire cage.

SPECIFY

Hydraulic oil shall be cooled a cross flow heat exchanger

YES NO

SPECIFY

6. P.T.O.

PTO drive system to be mechanical by way of a clutch, 11-1/2" over-centre type is preferred. Must be electric over hydraulic actuation with indicator light. Actuation by lever not acceptable.

YES NO

SPECIFY

FRONT - 1 3/8" diameter 6 spline 540 PTO rpm @ 2160 engine rpm

YES

Minimum 90 PTO HP required. The municipality may request to witness a dyno test to confirm the PTO HP.

YES NO

SPECIFY

Must have access to PTO shaft shear bolts from inside cab.

YES NO

7. IMPLEMENT HITCHES TO BE INCLUDED

FRONT - quick hitch - with dual, double acting lifting cylinders, and spring loaded lift latches.

YES NO

SPECIFY

YES NO

SPECIFY

8. TRANSMISSIONS

HYDROSTATIC - The tractor shall be propelled by an Eaton hydrostatic transmission and controlled by a single foot pedal.

YES NO

SPECIFY

MECHANICAL - The tractor shall have a 2 speed mechanical transmission which provides a:

YES NO

low speed range of 0 - 12 km/hr

high speed range of 0 - 32 km/hr

SPECIFY

9. AXLES

Shall be Dana model 60 full float with trac-lok limited slip differentials front and rear.

YES NO

SPECIFY

Rated capacity of each axle to be 5900 lbs. - total allowable G.V.W. to be 11,800 lbs

YES NO

SPECIFY

10. BRAKING SYSTEMS

Shall have a minimum of 3 braking systems, hydrostatic, service and emergency/parking.

YES NO

SPECIFY

Service brakes - must have 4 wheel brakes

YES NO

SPECIFY

11. WHEELS / TIRES

Tires shall be LT245/75R16" mounted on heavy-duty wheels with 8 studs.

YES NO

SPECIFY

12. HYDRAULIC SYSTEMS

Hydraulic gear pump - must be 18 gpm minimum and driven by timing gears of engine.

YES NO

SPECIFY

6 front couplers (3 pair) are to be supplied for operating control features on various attachments.

YES NO

SPECIFY

1 pair HIGH VOLUME front couplers capable of 12 gpm (minimum) are to be supplied to power attachments such as a sickle bar mower or sweeper.

YES NO

SPECIFY

Rear of tractor must have 1 pair of high output couplers 12 gpm (minimum).

YES NO

SPECIFY

All hydraulic hoses to have NPT, SAE straight thread or SAE split flange end fittings - (no metric).

YES NO

SPECIFY

13. ELECTRICAL

Shall be 12 Volt DC, negative ground with a 950-1000 cca Group 31 battery, 95 amp (minimum) alternator and voltmeter, main breaker switch protection.

YES	_____	NO	_____
SPECIFY	_____		

There shall be an illuminated electric gauge for the following:

tachometer / hourmeter	YES	_____	NO	_____
coolant temperature	YES	_____	NO	_____
engine oil pressure	YES	_____	NO	_____
hydraulic oil temperature	YES	_____	NO	_____
voltmeter	YES	_____	NO	_____
fuel level	YES	_____	NO	_____

NOTE: Warning lights are acceptable only if in addition to gauge.

14. LIGHTING

There shall be 4 headlights and 1 backup light - all 5 to be adjustable, halogen and identical.

YES	_____	NO	_____
SPECIFY	_____		

There shall be taillights, signal lights, 4 way flashers, strobe light and interior dome light.

YES	_____	NO	_____
SPECIFY	_____		

15. CAB

The cab shall be "ROPS Certified" to J1040-C SAE specifications and bear a certification label so stating. An Engineering ROPS test report is required for verification.

YES	_____	NO	_____
SPECIFY	_____		

Shall have a fabric covered air ride seat with armrests and lumbar support.

YES	_____	NO	_____
SPECIFY	_____		

The cab shall have:

horn	YES	_____	NO	_____
3 speed heater defroster	YES	_____	NO	_____
2 speed wiper and washer	YES	_____	NO	_____
inside and outside mirrors (foldable & vibration free)	YES	_____	NO	_____
Three point seat belt (lap belt not acceptable)	YES	_____	NO	_____
AM/FM radio	YES	_____	NO	_____
tilt steering in column	YES	_____	NO	_____
operators manual	YES	_____	NO	_____

16. WATER PUMP

All hoses, wiring, switch and quick coupler shall be installed for future optional water / chem. pump.

YES _____ NO _____
SPECIFY _____

17. FUEL TANK

The fuel tank capacity shall be a minimum of 19 US gallons. Single fuel tank preferred.

YES _____ NO _____
SPECIFY _____

18. PAINT

The unit shall be painted Dupont yellow L0648-HR. No other color acceptable.

19. WARRANTY

Manufacturer's warranty shall be the first of 12 months or 600 hours.

YES _____ NO _____
SPECIFY _____

Extended Warranty (if available)

TRACTOR OPTIONS REQUIRED

1. The tractor shall have an extra hydraulic pump and valve system providing 12 gpm (minimum). This system, if coupled with std. tractor hydraulics will supply 27-30 gpm.

YES _____ NO _____
SPECIFY _____

2. The cab shall have a roof-mounted air conditioner with branch Guard.

YES _____ NO _____
SPECIFY _____

3. The tractor (2) strobe lights shall be protected by a branch guard.

YES _____ NO _____
SPECIFY _____

4. The tractor (2) strobe lights shall be mounted on an adjustable pedestal at the right & left rear of the cab

YES _____ NO _____
SPECIFY _____

5. The tractor shall have dual wheels & tires front & rear
(Required for Boom Flail Mower)

YES _____ NO _____
SPECIFY _____

SPECIFICATIONS FOR A SALT AND SAND SPREADER

1.	Sander to be pin mounted to rear of tractor requiring no tools for installation or dismantling.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
2.	It shall be hydraulically driven with engagement from within cab.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
3.	Engagement and disengagement must be independent from front mounted attachments.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
4.	Spread shall be controlled by an adjustment lever.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
5.	The spread shall be by means of a roller with cams, which disperses small spots of material in a grid pattern.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
6.	Spread distance per hopper shall be 4-6 miles.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
7.	Hopper capacity shall be not less than ½ cubic yard.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
8.	Shall be fabricated of heavy gauge steel.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
9.	Shall have a total width of 44" and a spread width of not more than 41 inches.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
10.	Shall have colour coded hydraulic quick couplers. Tape or paint for colour coding not acceptable.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
11.	Ground clearance to be not less than 14 inches.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
12.	Shall be painted same colour as tractor.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	
13.	Shall be manufactured by the same company as the tractor.	YES	NO
		<input type="checkbox"/>	<input type="checkbox"/>
		SPECIFY _____	

SPECIFICATIONS FOR A 51" BOOM FLAIL (REQUIRES DUAL WHEELS & TIRES)

1.	Must be front mounted and operate to right side of tractor.	YES	NO	
2.	Complete mower attachment must be designed for quick change mounting or removal without tools and by one person.	YES	NO	
		SPECIFY		
3.	Overall width of cut not less than 44"	YES	NO	
	Overall width of head – 52½"			
		SPECIFY		
4.	Horizontal reach from centre of tractor to outside of cut 13½ feet	YES	NO	
	Vertical reach 13½ feet.			
		SPECIFY		
5.	Below grade cut - at 53 inches below grade will cut 11½ feet out from centre of tractor to outside of cut.	YES	NO	
		SPECIFY		
6.	Hydraulic hoses along the boom must be protected by guards.	YES	NO	
7.	Overall level ground cutting coverage to be no less than 11 feet.	YES	NO	
		SPECIFY		
8.	Number of cutting blades – 36			
		SPECIFY		
9.	Drive for cutting head is to be supplied from a PTO driven hydraulic system contained within the mower attachment.	YES	NO	
		SPECIFY		
10.	All hydraulic boom functions are to be supplied by tractor hydraulics. Remote valves and cable systems, which must be fed through a window, are not acceptable.	YES	NO	
11.	Gage roller to be 6" diameter minimum.			
		SPECIFY		
12.	Boom arms to be 4" x 4" square tube minimum.			
		SPECIFY		
13.	Boom to be equipped with hydraulic break-back.	YES	NO	
14.	Bolt on safety screen for side window to be included.	YES	NO	
15.	Complete mower attachments to sit on stands when removed from tractor.	YES	NO	
16.	Weight with counterweights and hydraulic oil 1960 pounds.			
		SPECIFY		

SPECIFICATIONS FOR A 51" WIDE RIBBON SNOW BLOWER

1.	Shall be manufactured complete by the same company as the tractor.	YES	NO
		SPECIFY	
2.	Raising/lowering, chute rotation, and chute deflector controlled hydraulically from single joystick inside tractor cab	YES	NO
		SPECIFY	
3.	The snow blower shall be driven mechanically through a shear pin protected P.T.O. and a shear pin protected auger drive.	YES	NO
		SPECIFY	
4.	Throat opening shall be 51" wide with end plates which are not less than 3/8" thick steel.	YES	NO
		SPECIFY	
5.	The gearbox shall weight approximately 95 lbs and have a 2 inch diameter impeller output shaft.	YES	NO
		SPECIFY	
6.	There shall be one 28" dia. ribbon type auger driven by a #80 chain. <i>gear box</i>	YES	NO
		SPECIFY	
7.	The impeller shall be 7.5" x 24" dia. with not less than 5 scoop type blades.	YES	NO
		SPECIFY	
8.	The impeller housing shall have a replaceable, 2 piece liner.	YES	NO
		SPECIFY	
9.	The chute must rotate on a 15" diameter ball bearing. Systems without a bearing not acceptable.	YES	NO
		SPECIFY	
10.	The skid shoes shall be free pivoting with 1-1/2" thick hardened wear pads.	YES	NO
		SPECIFY	
11.	The cutting edge shall be 1/2" x 6" hardened steel and reversible.	YES	NO
		SPECIFY	
12.	The cutting edge height shall be adjustable by shoe brackets.	YES	NO
		SPECIFY	
13.	The sidewalk chute shall have a minimum throat clearance of 87".	YES	NO
		SPECIFY	
14.	Optional truck loading chute to have a throat clearance of 11 feet.	YES	NO
		SPECIFY	
15.	Net weight of the blower shall be approximately 1640 lbs.	YES	NO
		SPECIFY	
16.	Dimension from centre of front axle to front of body side plates not to exceed 77".	YES	NO
		SPECIFY	

SPECIFICATIONS FOR A POWER ANGLING SWEEPER

1.	Shall have a broom diameter of not less than 32".	YES	NO
		SPECIFY	
2.	Shall have a broom width of 60". 72", 84" and 96" are also available.	YES	NO
		SPECIFY	
3.	Shall have an overall width of not more than 66".	YES	NO
		SPECIFY	
4.	Shall have a sweeping pattern of not more than 50" when angled at 30 degrees.	YES	NO
		SPECIFY	
5.	There shall be a self-centering scissor frame, which centers the sweeping pattern in front of the tractor when the broom is angled.	YES	NO
		SPECIFY	
6.	The broom shall be powered by the tractor hydraulics. An additional PTO pump and oil reservoir is not acceptable.	YES	NO
		SPECIFY	
7.	Final drive shall be hydraulic motor to broom core without any intermediate power transmission device such as sprockets, chains, pulleys or belts.	YES	NO
		SPECIFY	
8.	Hydraulic drive to sweeper shall have a relief valve to prevent core twisting from broom overload conditions.	YES	NO
		SPECIFY	
9.	Shall have colour coded hydraulic quick couplers. Paint or tape not acceptable.	YES	NO
		SPECIFY	
10.	Shall have 4 stands to support entire broom when disconnected from tractor.	YES	NO
		SPECIFY	