

CITY OF ROCHESTER, NH
31 Wakefield St. Rochester, NH 03867
INVITATION TO BID

City of Rochester, NH is soliciting a competitive bid;

1. **BID: Bid 24-10 New Sidewalk Tractor**
2. **BID Submission Options-Hardcopy, or Electronically:**
 - a) Submit Hardcopy via USPS, FEDEX, or UPS: City of Rochester, NH, Purchasing Agent
31 Wakefield St. Rochester, NH 03867. Reference **Bid 24-10** on package.
In-person drop offs are to go to the Finance Office at City Hall, 31 Wakefield Street, Rochester, NH 03867.
 - b) Submit Electronically via Email: RFP24-10@rochesternhnet.onmicrosoft.com
Include in Email subject line: **Bid 24-10**. An automated email confirmation will be generated to bidder once bid has been received. It is bidder's responsibility to ensure proper email submission of bid, and to monitor for the confirmation email.
3. **Bid Receipt Date & Time:** No later than **September 13, 2023 at 5:00pm.**
4. **Bid Opening Date & Time:** **September 14, 2023 at 2:45 PM** .Opening will be conducted in person in the Council Chambers, 31 Wakefield Street, Rochester, NH 03867.
5. **Bid Specifications, Questions & Addendums (Q&A):** Can be obtained by visiting <https://rochesternh.gov/bids> see **OPEN BIDS** section. Or contact City of Rochester, NH Purchasing Agent 31 Wakefield St. Rochester, NH 03867, purchasing@rochesternh.gov, 603-335-7602. Note Q&A updates will end one week prior to bid opening.
6. **Bid Results:** Results can be obtained at <https://rochesternh.gov/bids>, in **CLOSED BIDS** section. Select the specific bid to see all results, or contact Purchasing Agent

SPECIFICATIONS FOR A MUNICIPAL SIDEWALK TRACTOR

With 53” boom flail with dual tire option for increased stability

BID QUALIFICATION:

To ensure that only those tractors that are of sufficient power, are not too large for operating on municipal sidewalks and qualify as market proven commercial production vehicles, the following four 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, utilizing various attachments shall be supplied | MAKE _____ |
| | | MODEL _____ |
| | | YEAR _____ |
| | | AVAILABILITY _____ |
| 2. | Tractor shall be no wider than 50-1/2” (1.3 m), including fenders and no higher than 88” (2.26 m) to top of roof guard | COMPLY _____ |
| | | DO NOT COMPLY _____ |
| 3. | Engine shall have a displacement of no less than 4.5 LT. HP to be 74 hp or greater. The engine must be a Tier 4 final diesel not requiring the use of urea injection. Tier 3 or 4 I (interim) engines not acceptable. | COMPLY _____ |
| | | DO NOT COMPLY _____ |
| 4. | Tractor shall have sufficient hydraulic capability to power manufacturers own hydraulically driven angle sweeper, cold planer, 14 ft wide rotary mower, etc. | COMPLY _____ |
| | | DO NOT COMPLY _____ |
| 5. | Tractor shall have a mechanically driven front PTO | COMPLY _____ |
| | | DO NOT COMPLY _____ |

2. CUSTOMER REFERENCES:

Bidder must submit a list of at least 6 different customers in the province / state with contact names and telephone numbers, who currently own and operate 1 or more of the model being offered.

3. FUTURE ATTACHMENT AVAILABILITY:

The municipality may require one or more of the following attachments within 30 – 60 days following the initial purchase order. Please answer yes or no for availability. Also state the number of days notice that is required to have the attachment demonstrated at the location of our choice.

	<u>YES</u>	<u>NO</u>	<u>Number of Days Notice for Demo</u>
1 14 ft rotary mower, front mounted	_____	_____	_____
2 10 ft rotary mower, front mounted	_____	_____	_____
3 6 ft rotary mower, front mounted	_____	_____	_____
4 stump grinder	_____	_____	_____
5 sickle bar mower	_____	_____	_____
6 Concrete cold planer	_____	_____	_____
7 Leaf shredder / loader	_____	_____	_____
8 45 kw generator & security fencing	_____	_____	_____
9 Electric infrared asphalt heater	_____	_____	_____
10 3, 4, 5, 6, 7, or 8 ft wide hydraulically driven angle sweeper	_____	_____	_____
11 50", 60", or 72" V plow	_____	_____	_____
12 5, 6, 7, or 8 ft angle snow plow	_____	_____	_____
13 5 ft double trip snow plow	_____	_____	_____
14 5 position folding V plow	_____	_____	_____
15 51", 60", 70", or 80" snowblower	_____	_____	_____
16 51", 60", 75" ribbon style snowblower	_____	_____	_____
17 telescopic truck loading chute	_____	_____	_____

18	rear salt & sand spreader	_____	_____	_____
19	front sander and plow combination	_____	_____	_____
20	1-1/4 yd tow behind sander			
21	53" boom flail with dual tire option for increased stability	_____	_____	_____
22	48" pickup sweeper	_____	_____	_____
23	Water tank & pump system	_____	_____	_____
24	Front mounted flail mower	_____	_____	_____
25	Front mounted aerator	_____	_____	_____
26	Front mounted loader with 49" or 72" bucket	_____	_____	_____
27	Line & symbol painter	_____	_____	_____
28	Hydraulic Stump Grinder	_____	_____	_____

4. FACTORY TRAINING:

A factory training school at the manufacturer's location for up to 12 technicians shall be available at no charge. The school shall include classroom sessions, hands on repair techniques and diagnostic training. The training school is also to be available several times per year at no charge, for re-training or new technicians.

5. LABELLING and WARNING DECALS:

The following labels and decals must present on tractor upon delivery:

- Pinch point decals
- Danger – rotating shaft decal
- Danger – Fan decal
- Joystick function / operation decal
- Diesel fuel only decal on fuel reservoir (minimum .75" high letters)
- Hydraulic oil only decal on oil reservoir (minimum .75" high letters)
- Decals for adjustment procedures

- Metal tag - ROPS Certification
- Metal tag - Serial number / model / model year

6. MANUALS:

The following manuals with CDs, printed in English, must be furnished at no extra charge at the time of delivery.

An operators manual of approximately 170 pages must be supplied in the tractor cab. The manual will provide all information required to operate the tractor and include maintenance information, safety precautions, lubrication diagrams, etc. All pictures must be in full colour.

A tractor parts manual including maintenance and operators instructions shall be supplied. The manual shall be no less than 280 pages and include detailed parts illustrations. Wiring and hydraulic schematics must be in full colour. The manual must have detailed information regarding controls, operating tips, safety precautions, attachment mounting, attachment hose hook up colour coding, grease point illustrations, lubrication chart, etc. The manual must include a CD copy inserted into a protective sleeve in the manual cover.

A tractor service manual shall be supplied at time of delivery. It shall consist of approximately 265 pages with a detailed index. The manual must include diagnostic, repair and adjustment information for main drivetrain components. All photo pictures that assist in overhaul procedures must be in full colour. Wiring and hydraulic schematics must be in full colour. Other items required include a torque specification page, fault logic trouble shooting, lifting point and jack stand placement illustrations. The above information for attachments including those which may be ordered at a later date must also be included. The manual must include a CD copy inserted into a plastic protective sleeve in the manual cover. Attachment manual must also be provided for all attachments ordered.

7. SAFETY FEATURE REQUIREMENTS:

A neutral safety start system shall prevent the engine from starting unless shifted into neutral. YES _____ NO _____

A seat safety switch must automatically shut down the PTO shaft and shut off any hydraulically powered attachment if the operator leaves the drivers seat. (No exception allowed) CONFIRM _____

If the operator leaves the seat without placing CONFIRM _____

the shifter into neutral, the engine will shut down. (no exception allowed)

The hydraulic circuits which power the hydraulic driven mower wings must kick off automatically when wings are raised to a pre-determined angle. When lowered, they must be re-started. This feature must be designed into the tractor for future additional attachment purchases.

YES _____ NO _____

Cab must be ROPS certified and have a metal Certification tag attached to the structure.

CONFIRM _____

(no exception allowed)

A wire protection guard must enclose the engine fan.

YES _____ NO _____

The tractor shall have reflective striping on both sides of cab and rear side hoods, as well as on the rear hood below the tail lights.

YES _____ NO _____

The tractor shall have a minimum of 8 flashing LED amber and/or blue lights mounted above the roof line, two on each side for full, unobstructed 360 degree visibility.

CONFIRM _____

(no exception allowed)

Tractor shall have a backup alarm activated by the forward / neutral / reverse switch

YES _____ NO _____

The tractor shall have a backup camera viewed on the digital dash display whenever tractor is in reverse.

YES _____ NO _____

**The tractor shall have Safety. Danger, Caution and Pinch Point decals as described in the labelling Section of this specification.
(no exception allowed)**

YES _____ NO _____

Access to the PTO shaft shear bolt shall be from inside the cab. This is also where the PTO shaft is connected when attaching an implement. Having to reach down in front of the tractor to connect the PTO shaft or change a shear bolt will not be accepted.

YES _____

NO _____

For hooking up attachments, the PTO shaft of the Attachment must be supported by a stand on the pushframe so that no one is required to hold up the Shaft while the operator drives the tractor forward Into the attachment.

YES _____

NO _____

There shall be an external lift cylinder switch on the Front of the cab which the operator can bump up Or down to align the lift cylinder pins.

YES _____

NO _____

No fluid checks, filters, battery, ECUs or breaker Switches are to be located on the same side of the Tractor as the exhaust and after-treatment system Due to possible contact with high temperature Components.

YES _____

NO _____

8 . ENVIRONMENTAL:

Engine must be Tire 4 final. Tier 4 Interim not acceptable.

YES _____

NO _____

Engine must be programmed for anti-idle which shuts off the engine automatically after a specified period of time, once the engine has reached operating temperature.

YES _____

NO _____

Tractor shall have a fuel saver mode which reduces fuel consumption by up to 3-1/2 LT per hour when driving, plowing, sweeping or

YES _____

NO _____

any other function that does not require constant full engine RPM.

Due to operation within residential areas, sound levels are extremely important. Because an increase of 10 dBA means the sound is 10 times greater the following must be accurate and will be checked for verification.

Tractor noise level with no attachments connected must be no greater than:

69 dBA at 2100 rpm, measured 15 metres (49 ft) directly behind the tractor.

STATE: _____ dBA

64 dBA at 2100 rpm, measured 15 metres (49 ft) directly in front of tractor.

STATE: _____ dBA

9. COST OF OPERATION

Tractor to have a PTO mode and a standard drive Mode. This is to lower fuel consumption by up to 3-1/2 litres per hour (40%) when driving, plowing snow or sweeping.

YES _____ NO _____

Tractor shall have an auto / run feature which automatically shuts off the sand / salt spreader when the tractor stops at an intersection , stops moving for any reason or is shifted into reverse to reduce material costs by up to 40%.

YES _____ NO _____

There shall be a rotary switch to adjust the amount of material being spread by the rear sand/salt spreader to reduce cost.

YES _____ NO _____

Tractor to have anti-idle which does not allow the engine to continue running and consuming fuel, for long periods such as while an operator is on a break lunch, etc.

YES _____ NO _____

10. DIMENSIONS and WEIGHTS:

Dimensions are not to exceed the following:

Overall length including rear bumper	149.5 inches	SPECIFY _____
Height o top of AC roof guard	88.0 inches	SPECIFY _____
Track width with winter tires	49.5 inches	SPECIFY _____
Overall width including fenders	50.5 inches	SPECIFY _____
Inside turning radius	90.0 inches	SPECIFY _____

Weight of tractor is to be no less than 6,500 lbs and is not to exceed 7,000. lbs

STATE WEIGHT _____ Lbs
 _____ Kgs

11. CHASSIS:

The tractor shall consist of 4 main structures, front cab / frame, centre frame, mid frame and rear frame.

YES _____ NO _____

STATE NUMBER OF FRAME SECTIONS _____

Two greaseable pivot pins shall connect the mid frame to the centre frame through hardened greaseable spherical bearings.

DESCRIBE SYSTEM:

Rear frame rails are to be no less than 6" x 2" x 3/8" wall HSS rectangular tubing to withstand rough road impact at 32 km/hr with loaded sander on the rear and the heaviest

STATE FRAME RAIL TUBING DIMENSIONS:

front mounted attachment supplied.

____” x ____” x ____” wall

Tractor shall articulate and oscillate.
(no exception)

CONFIRM _____

12. ENGINE COMPARTMENT :

The top hood, two side hood panels, and rear grill are to be easily removable without the use of any tools. Only latches and quarter turn fasteners need to be released before lifting off the hoods and grills.

YES _____ NO _____

There shall be an air breather precleaner permanently attached to the top hood.

YES _____ NO _____

The left side hood panel must have 2 hinged access doors for access to daily fluid checks, battery, filters, battery disconnect switch and main breakers.

YES _____ NO _____

All other hoods and panels must be either 14 or 16 gauge steel to withstand rough operation and contact with tree branches, signs and other obstructions encountered. Plastic, fiberglass or any other non-metallic material is unacceptable.

STEEL HOODS: YES _____
NO _____

Complete rear grill shall hinge open and lift off for easy access to clean oil cooler and radiator. Must be able to lift off when rear sander attached

YES _____ NO _____

The overall width of the top hood shall not exceed 37 inches
The overall width of the rear grill / hood, behind the rear Axle shall not exceed 41 inches.

YES _____ NO _____
SPECIFY _____ inches
YES _____ NO _____
SPECIFY _____ inches

There shall be a hinged door for access to the radiator fill spout.

YES _____

NO _____

The tractor shall have an all stainless steel horizontal exhaust system. The DPF and DOC shall be located over the fender where it is protected from the environment and behind the side hood where there is no danger of someone touching it while hot.

YES _____

NO _____

13. COOLING:

Engine shall be water cooled by means of an 18 inch diameter fan and a radiator which automatically reverses every few minutes to prevent dirt, salt and grass clippings from building up on the oil cooler and radiator fins.

YES _____

NO _____

A 2 piece cooler is to be supplied for cooling hydraulic oil and engine coolant.

YES _____

NO _____

A heavy duty 4" x 2" steel cross member and steel rear hood must be provided to protect the radiator and oil cooler. If hood is not steel, a heavy duty protective grill must be provided.

YES _____

NO _____

The hydraulic system shall have a thermostatically controlled bypass valve for cold weather operation.

YES _____

NO _____

STATE BYPASS TEMP

SETTING _____ DEGREES

14. P.T.O.

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

YES _____ NO _____
SPECIFY _____

The front PTO is to be 1-3/8 inch diameter, 6 spline. 540 pto rpm @ 2160 engine rpm.

YES _____ NO _____

See options page if rear pto is required.

15. IMPLEMENT HITCHES:

Tractor shall be supplied with a front quick hitch system. Implement height shall be controlled by two double acting hydraulic cylinders which are operated from the joystick. Spring load lift latches hold the implement frame in place.

YES _____ NO _____
SPECIFY DETAILS OF HITCH

Must be capable of attaching existing Trackless attachments already owned by the municipality. To satisfy legal and safety concerns, bidder must submit 3 copies of a letter from Trackless Vehicles Ltd. approving the attachments already owned can be safely mounted and operated on the tractor and will not in any way effect their product liability coverage of the attachments in question.

YES _____ NO _____

16. TRANSMISSIONS:

The tractor shall be propelled by a hydrostatic transmission and controlled by a single electronic

YES _____ NO _____

foot pedal. The electronic pedal controls the hydrostatic transmission and the engine RPM when in FUEL SAVER mode. If switched to work mode, a throttle lever over-rides the pedal control of the engine RPM allowing full RPM to power the PTO shaft to run the attachment.

SPECIFY COMPLETE DETAILS OF SYSTEM OFFERED:

The tractor shall consume no more than 92 litres of fuel to plow sidewalks for 12 – 15 hours in fuel saver mode.

YES _____ NO _____

SPECIFY _____

The tractor shall have cruise control / hydrostatic lock

YES ----- NO _____

A forward / neutral / reverse switch on the joystick shall be supplied.

YES _____ NO _____

The tractor shall have a 2 speed mechanical transmission which provides speed ranges of:

YES _____ NO _____

SPEICFY _____

LOW RANGE 0 - 12 km / hr
HIGH RANGE 0 - 32 km / hr

The transmission SHIFT LEVER inside the cab must have a neutral position allowing the tractor to be towed, without danger of damaging the hydrostatic transmission. Shut off taps, screws, etc located in the rear frame area will not be accepted. Tractor may be towed several miles without damage.

YES _____ NO _____

See options page if deep reduction option is required.

17. AXLES:

Shall be Dana model 60 style full float with track lock differentials (limited slip) front and rear.

YES _____ NO _____

Axles assemblies must be manufactured in North America with local parts availability.

SPECIFY _____
COUNTRY OF MANUFACTURE

There shall be no less than 8 - 1/2 inch dia. bolts securing each axle housing to the chassis.

YES _____ NO _____

Each axle shaft shall have a minimum of 8 wheel studs.

YES _____ NO _____

18. BRAKING SYSTEMS:

Tractor shall have no less than 3 braking systems, hydrostatic dynamic braking, enclosed wet driveline brake and mechanically actuated emergency / parking brakes.

YES _____ NO _____
SPECIFY _____

Parking brake is to be applied by way of an adjustable parking brake lever. It must be able to apply the brakes mechanically in the event that the hydraulic system for applying the service brake fail.

YES _____ NO _____
SPECIFY _____

The hydrostatic braking is to be programmed more aggressive when service brake pedal applied.

YES _____ NO _____

The parking brake must sound a warning buzzer when applied and a warning message in 3/4" high letters must appear on the LED dash display.

YES _____ NO _____

19. WHEELS / TIRES:

Tires shall be LT 245 / 75R x 16 winter tread mounted on heavy duty wheels

YES _____ NO _____

Tires must be radial.

CONFIRM _____

Wheels must have no less than 8 studs.

STATE NUMBER OF STUDS

PER WHEEL _____

See options page for tire and wheel options if required.

20. RIDE CONTROL

The tractor shall have an anti-bounce ride control system which automatically weighs the front mounted attachment when lifted and calculates, according to speed and shock load, how much the attachment needs to move and over how many milliseconds to counteract the bounce when hitting a bump or pothole, deadening the bounce that normally would follow the initial impact.

YES _____ NO _____

21. HYDRAULIC SYSTEMS:

The hydraulic gear pump shall be driven by the engine and produce a minimum of 20 gpm.

YES _____ NO _____

A second hydraulic pump is to be engaged only when the PTO is engaged.

YES _____ NO _____

Tractor shall be supplied with a electronic joystick. (no exception permitted)

All attachment functions and forward /reverse are to be controlled by a single joystick. The joystick must automatically program itself to the attachment that is mounted. 3 float position switches to have additional LED indicator lights. Joystick allows lifting & lowering of attachment while 2 other function controls remain live.

IF ANY DEVIATION, ATTACH A SEPARATE DESCRIPTION OF JOYSTICK CONTROL OFFERED.

Moving the joystick forward or back while holding the blue button moves both wings on the 5 position plow or batwing rotary mower at the same time.

Tractor shall have a low hydraulic oil warning system. When low a message appears on digital display 7 front hydraulic couplers are to be supplied for operating the control features on attachments.

YES _____ NO _____

YES _____ NO _____

In addition to the 7 couplers for operational controls, there shall be 4 (2 pair) of HIGH VOLUME front couplers to power hydraulically driven attachments. They can power 2 separate attachments such as mower wings, or be combined for attachments requiring higher flows. One switch engages the left pair and a second switch engages the right pair. Switches for the hydraulic circuits are to be located to the left and right of the front PTO engagement switch.

YES _____ NO _____

For tractors other than Trackless, state flow / pressure of each circuit used to power hydraulically driven mower wings, sweepers, etc already owned by the municipality. These must match the requirement of the attachments to be considered safe to operate.

STATE CIRCUIT A:
_____ gpm @ _____ psi

STATE CIRCUIT B:
_____ gpm @ _____ psi

Rear of tractor shall have 1 pair of hydraulic couplers with an output of 3 gpm.

YES _____ NO _____

Hydraulic couplers must be colour coded, matching joystick colour coded switches.

YES _____ NO _____

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

YES _____ NO _____

Hydraulic oil filter shall be cartridge type, mounted at highest point in hydraulic system for dry changes. Spin on filters not accepted.

YES _____ NO _____

22. ELECTRICAL :

Tractor shall have a 12 V, neg ground system with

YES _____ NO _____

a 950 – 1000 CCA group 31 battery,
and main breaker switch protection.

BATTERY CCA _____

Tractor must be provided with a 200 amp alternator for
future additional lighting or electrical components

CONFIRM _____

There shall be a battery disconnect switch inside the
engine compartment.

YES _____ NO _____

There shall be a 7 prong trailer plug in rear panel.

YES _____ NO _____

There shall be a 4 prong trailer plug in rear panel
for powering the water tank spray system, brine pump
or other electrical components other than lighting.

YES _____ NO _____

There shall be a 7 inch LED digital display screen

YES _____ NO _____

with the following features:

- Backup camera when in reverse
- Tachometer indicating engine RPM and PTO RPM
- Speedometer and Odometer
- hourmeter
- Coolant temperature
- Engine oil pressure
- Hydraulic oil temperature
- Voltmeter
- Fuel level
- Turn signals, 4 way flashers
- High / low beams
- Forward / neutral / reverse
- Low Range / High Range
- Large text warning messages for Low hydraulic oil,
- Low coolant level , Air breather service required,
- Parking brake engaged, Parked regen required
- Seat belt ICON

YES _____ NO _____

LIST ALL DEVIATIONS

Due to the complexity of the wiring systems in tractors with Tier 4 engine management
systems and other electronic management systems, the following specifications
have to be complied with to assist in efficient diagnostic and electrical repairs over the
life of the tractor.

Tractor must utilize multiplex CAN communication YES _____ NO _____

Wiring harnesses must be professionally manufactured with terminals which are machine crimped to ISO standards. YES _____ NO _____

Codes and numbers must be shown on all parts manual exploded views and wiring schematic drawings and charts. YES _____ NO _____

All fuses are to be mini blade type and must be contained within an IP67 watertight enclosure. YES _____ NO _____

All harness plug connectors shall be standard Packard weatherproof. Bulkhead connectors must be twist lock type. YES _____ NO _____

23. LIGHTING:

There shall be 4 headlights and 1 backup light. All 5 lights are to be adjustable, halogen and identical. YES _____ NO _____

There shall be LED signal lights, 4 way flashers, and shock proof rubber mounted LED tail lights. YES _____ NO _____

There shall be 8 flush mounted LED flashing lights, 2 on each side of the branch guard for 360 degree visibility YES _____ NO _____

There shall be an interior dome light YES _____ NO _____

Signal lights must self cancel. YES _____ NO _____

24. CAB:

The cab shall have the following:

HVAC system to be controlled by digital climate control LED screen which allows operator to select heat, AC or defrost and set desired temperature. A cab pressurizer is also mandatory.

YES _____

NO _____

For health and safety concerns during sweeping, a cab Pressurizer is also mandatory. If not included in the HVAC system, a separate pressurizer must be provided

**CONFIRM:
IN HVAC**

SEPARATE

2 individual heaters totaling 63,000. BTU supply heat through 12 adjustable louvres.

YES _____

NO _____

STATE ACTUAL BTU _____

NUMBER OF VENTS _____

24,000. BTU AC also runs with heat when in defrost mode to remove in cab humidity for better defrosting

YES _____

NO _____

Heater must include a minimum of 2 outlets no higher than 16 inches above floor level directed at operators feet

YES _____

NO _____

**Front intermittent 3 speed pantograph wiper and washer
Rear intermittent wiper and washer**

YES _____

NO _____

YES _____

NO _____

If rear wiper not available, provide rear slider window

REAR WIPER

or

REAR SLIDER

Inside rear view mirror and backup camera

YES _____

NO _____

Two outside vibration free mirrors. When approaching an obstacle such as a sign post or when working in a narrow section next to a wall the operator must be able to fold mirrors in and back out again without exiting cab.

YES _____

NO _____

3 point seat belt including should harness. YES _____ NO _____
(must be retractable type) (must be orange)

AM / FM stereo with MP3 jack and dual speakers YES _____ NO _____

Radio to include Bluetooth CONFIRM _____

Steel door. All glass door not acceptable. YES _____ NO _____

Flush mounted door handle YES _____ NO _____

Gas strut door closer YES _____ NO _____

Door safety strap YES _____ NO _____

Steel roof preferred. If roof is not steel, a 1" diameter STEEL ROOF _____
Steel tube/pipe shall be mounted around the outside of or
the roof to protect front, rear and sides from damage. OTHER w/ GUARD _____

Tilt steering column YES _____ NO _____

In the upper most position the column must be approximately 80 degrees to the floor for easy entry and exit cab
_____ DEGREES IN UPPER POS.

Steel fenders - 10 gauge or heavier. YES _____ NO _____

DOT approved , tinted, tempered safety glass for all windows. YES _____ NO _____

ALL glass must be FLAT for convenience of local replacement in emergency situation. YES _____ NO _____

Side windows shall be slider type contained within an aluminum frame and lockable. YES _____ NO _____

1 and 2 inch thick open cell conasorb with perforated vinyl facing for sound deadening. YES _____ NO _____

Sound barrier floor matting with 2 lb/sq ft heavy duty YES _____ NO _____

vinyl wear surface and 3/8 inch thick closed cell PVC/nitrile rubber foam layer.

STATE SPECIFICATIONS OF MATTING

Sound level in cab at idle shall not exceed 65 dba

STATE DBA at idle _____

Hinged overhead switch panel

YES _____ **NO** _____

The cab shall be “ ROPS certified” and bear a metal Certification label so stating. An engineering ROPS Test report is required for verification and to keep on file for WSIB, Ministry of Labour and OSHA audits.

YES _____ **NO** _____

The cab must be constructed of steel sheet, plate, HSS tubing and ROPS tubing. ROPS tubing Charpy test documentation must be available.

YES _____ **NO** _____

Cab and front frame are to be one structure for additional strength.

YES _____ **NO** _____

Cab to have tapered sides. (narrower at top) to allow tractor to work in tight narrow areas where sidewalks are not perfectly level

YES _____ **NO** _____

Shall have an air ride high back fabric covered seat with adjustable left armrest, large padded right armrest. Air ride switch to be remote mounted in side switch panel beside ride control and cruise control switches.

YES _____ **NO** _____

There shall be a horn button which must be mounted in the centre of the steering wheel. (no other location acceptable)

YES _____ **NO** _____

There shall be a cup holder, storage compartment, 12 V outlet for a cell phone charger, positive and negative ports for connection of a 2 way radio or other device.

YES _____ **NO** _____

25. WATER / CHEMICAL PUMP

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

YES _____

NO _____

26. GPS / DATA TRACKING PORT

A 4 pin connector must be supplied inside the cab to plug in a GPS system for logging data to record location and time when a snowblower or plow is down in the working position and the tractor is moving, when the rear sander is on or off and whether the PTO is on or off.

YES _____

NO _____

- Pin # 1 to supply 12 V
- Pin # 2 ground
- Pin # 3 & 4 CAN communication for above

27. DIAGNOSTICS

The tractor shall have an on board diagnostic system which constantly monitors and self diagnoses all electrical and electronic components, hydrostatics, hydraulic valves, joystick, switches, sensors and the entire engine ECU. Any fault that occurs is diagnosed and sent to the message centre on the digital dash screen. where it can be retrieved by clicking on the message envelope ICON. All messages are recorded permanently and archived. The message centre also allows access to all ECUs directly. All diagnostics can be done without having to plug in a laptop or any other device.

YES _____

NO _____

28. FUEL TANK:

Shall have a single fuel tank with not less 92 LT

YES _____

NO _____

29. PAINT , FINISH and UNDERCOATING

All steel fabricated parts including the cab and all frames are to be prepped in a 4 stage phosphate wash prior to paint. All parts are to receive a 2 part epoxy primer with rust inhibitor. The top coat is to be a 2 part poly urethane automotive quality finish which is oven baked.

YES _____ NO _____

DESCRIBE COMPLETE PREP AND PAINT PROCESS.

Tractor must have factory rustproofing applied

CONFIRM _____

Paint colour shall be highway yellow .

CONFIRM _____

30. WARRANTY:

Manufacturers warranty shall be 12 months or 600 hours .

31. TRACTOR OPTIONS:

Please add to basic tractor specification, the following options which are checked off. See next section for option specifications

- 1 ___ ELECTRIC LOCKING DIFFERENTIAL
- 2 ___ DEEP REDUCTION 10:1 PLANETARY TRANSMISSION
- 3 ___ REAR 540 RPM PTO
- 4 ___ REAR CAT 1 3 POINT HITCH
- 5 ___ 5 SUMMER TIRES and WHEELS IN ADDITION TO THE WINTER RADIALS SUPPLIED

6 ___ SET OF 8 DUAL LOADER LUG TIRES AND WHEELS

7 ___ REAR SLIDER WINDOW

8 ___ REAR LICENSE PLATE BRACKET and LIGHT

9 ___ Electric brake control to wire into 7 prong trailer plug

10 ___ Tow behind sander adapt kit

10 ___ BREAK IN REPLACEMENT FILTER KIT
(engine oil, hydraulic oil, air breather element,)

32. TRACTOR OPTION SPECIFICATIONS :

1 - The front axle shall have electric locking differential operated activated by a single switch. Lock up can not occur above 12 km/hr YES _____ NO _____

2 - The drive system shall have an additional deep reduction planetary transmission, which allows 4 speed ranges instead of 2. The deep low creeper gear allows ground speeds of 0 – 10 ft / minute. YES _____ NO _____

STATE GEAR RATIO OF DEEP REDUCTION:

_____ : 1

Achieving creeper gear speeds through hydrostatic system only not acceptable.

3 - The tractor shall have a rear 540 rpm pto. capable of powering existing attachments or rear 3 point hitch attachments purchased in the future. YES _____ NO _____

4 - The tractor shall be provided with a rear category 1 rear 3 point hitch with stabilizer bar. controlled by joystick. YES _____ NO _____

5 - The tractor shall be equipped with an extra set of 5 summer tires and wheels. The tires shall have a turf tread and be no less than 13.5 inches wide. YES _____ NO _____

6 - The tractor shall be equipped with a set of dual YES _____ NO _____

loader lug tires and wheels in addition to the single tires and wheels on the tractor.

- 7 - The cab shall have a rear slider window within an aluminum frame. Glass must be DOT approved tempered safety glass. YES _____ NO _____**

- 8 - Tractor shall have a rear license plate bracket which includes a light. YES _____ NO _____**

- 9 Tractor shall have an electric brake controller mounted in the cab and within easy reach of the operator. YES _____ NO _____**

- 10 Tractor shall have a tow behind sander adapt Package, which includes a 12 pin electrical connector at the rear of the tractor, an electric brake controller for the sander brakes and a class 4 pintle hitch. YES _____ NO _____**

- 11 Included with the tractor shall be a break-in filter kit for the initial filter change. Kit is to include engine oil filter, hydraulic oil filter, air filter. YES _____ NO _____**

INSTRUCTION TO BIDDERS

- I. PREPARATION OF BID PROPOSAL**
- II. IRREGULAR PROPOSALS**
- III. DELIVERY OF PROPOSALS**
- IV. ELECTRONIC BID FORMAT**
- V. WITHDRAWAL OF BID PROPOSAL**
- VI. PUBLIC OPENING OF BID PROPOSAL**
- VII. DISQUALIFICATION OF BIDDERS**
- VIII. CONSIDERATION OF PROPOSALS**
- IX. AWARD OF CONTRACT**
- X. CANCELLATION OF AWARD**
- XI. BID EVALUATION**
- XII. LAWS, PERMITS & REGULATIONS**
- XIII. INSURANCE & LEGAL BUSINESS ENTITY**
- XIV. DEFAULT & TERMINATION OF CONTRACT**
- XV. OPENING BID RESULTS**
- XVI. BID FORM**

I. PREPARATION OF BIF PROPOSAL

1. The Bidder shall submit her/his proposal upon the form(s) furnished by the City (attached). The bidder shall specify a unit price for each pay item. All figures shall be in ink or typed.
2. If a unit price or lump sum bid already entered by the bidder on the proposal form is to be altered it should be crossed out with ink, the new unit price or lump sum bid entered above or below it, and initialed by the bidder, also with ink. In case of discrepancy between the prices written in words and those written in figures, the prices written in words shall govern.
3. The bidder's proposal must be signed with ink by an individual authorized by company to execute the proposal. Required information shall be name of authorized individual, title of individual, legal business name, address, email, and telephone number.
4. All questions shall be submitted in writing to and received by the Purchasing Agent at the above address, a minimum of 7 days prior to the scheduled bid opening. The Purchasing Agent, will then forward both the question and the city's response to the question to all known prospective bidders.

II. IRREGULAR PROPOSALS

Bid proposals will be considered irregular and may be rejected for any of the following reasons:

1. If the proposal is on a form other than that furnished by the Owner or if the form is altered or any part thereof is detached.
2. If there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
3. If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
4. If the proposal does not contain a unit price for each pay item listed, except in the case of authorized alternate pay items.

III. DELIVERY OF BID PROPOSALS

When sent by mail, the sealed proposal shall be addressed to the City of Rochester, Purchasing Agent, 31 Wakefield Street, Rochester, NH 03867. All proposals shall be filed prior to the time and at the place specified in the invitation for bids.

Proposals received after the time for opening of the bids will be returned to the bidder, unopened. Emailed or faxed bid proposals are not acceptable.

IV. ELECTRONIC BIDS: Due to Covid-19 the City of Rochester has incorporated an electronic bid process. If an electronic format is to be utilized specific submission instructions will be identified in the bid cover page.

V. WITHDRAWAL OF BID PROPOSALS

A bidder will be permitted to withdraw his proposal unopened after it has been deposited if such request is received in writing prior to the time specified for opening the proposals.

VI. PUBLIC OPENING OF BID PROPOSALS

Proposals will be opened and read publicly at the time and place indicated in the invitation for bids. Bidders, their authorized agents, and other interested parties are invited to be present.

VII. DISQUALIFICATION OF BIDDERS

Either of the following reasons may be considered as being sufficient for the disqualification of a bidder and the rejection of her/his bid proposal(s):

1. Evidence of collusion among bidders.
2. Failure to supply complete information as requested by the bid specifications.

VIII. CONSIDERATION OF PROPOSALS

1. Bids will be made public at the time of opening and may be reviewed only after they have been properly recorded. In case of discrepancy between the prices written in words and those written figures, the prices written in words shall govern. In case of a discrepancy between the total shown in the proposal and that obtained by adding the products of the quantities of items and unit bid prices, the latter shall govern.
2. The right is reserved to reject any or all proposals, to waive technicalities or to advertise for new proposals, if in the judgment of the City, the best interest of the City of Rochester will be promoted thereby.
3. Bid results will be available on the website at www.rochesternh.net within 48 hours of the bid opening.

IX. AWARD OF CONTRACT

The City holds the right, in its judgment, to award the contract to the bidder, which it feels is in the best interest of the City. If a contract is to be awarded, the Contractor/Vendor selection shall be based in part on possession of the necessary experience, organization, technical and professional qualifications, skills and facilities, reference checks, project understanding, approach, ability to comply with proposed or required time to completion or performance, licensing or certification, in good standing with Federal, State and Local agencies, possession of satisfactory record of performance, cost and to a responsible and qualified bidder whose proposal complies with all the requirements prescribed as soon as practical after the bid opening. No bid shall be withdrawn for a period of (60) sixty days subsequent to the

opening of bids without the consent of the City of Rochester. The successful bidder will be notified, by the form mailed to the address on his proposal, that his bid has been accepted and that he has been awarded the contract.

X. CANCELLATION OF AWARD

The City reserves the right to cancel the award of any contract at any time before the execution of such contract by all parties without any liability or other claim against the City.

XI. BID EVALUATION

In addition to the bid amount, additional factors will be considered as an integral part of the bid evaluation process, including, but not limited to:

1. The bidder's ability, capacity, and skill to perform within the specified time limits.
2. The bidder's experience, reputation, efficiency, judgment, and integrity.
3. The quality, availability and adaptability of the supplies and materials sold.
4. The bidder's past performance.
5. The sufficiency of bidder's financial resources to fulfill the contract.
6. The bidder's ability to provide future maintenance and/or services.
7. Any other applicable factors as the City determines necessary and appropriate (such as compatibility with existing equipment).

XII. LAWS, PERMITS AND REGULATIONS

1. The Contractor shall obtain and pay for all licenses and permits as may be required of him by law, and shall pay for all fees and charges for connection to outside services, and use of property other than the site of the work for storage of materials or other purposes.
2. The Contractor shall comply with all State and Local laws, ordinances, regulations and requirements applicable to work hereunder, including building code requirements. If the Contractor ascertains at any time that any requirement of this Contract is at variance with applicable laws, ordinances, regulations or building code requirements, she/he shall promptly notify the City of Rochester in writing.

XIII. INSURANCE & LEGAL BUSINESS ENTITY

1. Contractor and any related subcontractors will carry appropriate liability insurance, and be a legal business entity authorized to conduct business in the State of New Hampshire.

XIV. DEFAULT AND TERMINATION OF CONTRACT

If the Contractor:

1. Fails to begin work under Contract within the time specified in the notice to proceed; or
2. Fails to perform the work with sufficient workers and equipment, or with sufficient materials to assume prompt completion of said work; or
3. Performs the work unsuitably or neglects or refuses to remove materials or to perform anew such work as may be rejected as unacceptable and unsuitable; or
4. Discontinues the prosecution of the work; or
5. Fails to resume work, which has been discontinued, within the time frames included in specifications; or
6. Becomes insolvent or has declared bankruptcy, or commits any act of bankruptcy or insolvency; or
7. Makes an assignment for the benefit of creditors; or
8. For any other causes whatsoever, fails to carry on the work in an acceptable manner the City of Rochester will give notice, in writing, to the Contractor for such delay, neglect, and default.

If the Contractor does not proceed in accordance with the Notice, then the City of Rochester will have full power and authority without violating the Contract to take the prosecution of the work out of the hands of the Contractor. The City of Rochester may enter into an agreement for the completion of said Contract according to the terms and conditions thereof, or use such other methods as in the City's opinion will be required for the completion of said Contract in an acceptable manner.

All extra costs and charges incurred by the City of Rochester as a result of such delay, neglect or default, together with the cost of completing the work under the Contract will be deducted from any monies due or which may become due to said Contractor. If such expenses exceed the sum which would have been payable under the contract, then the Contractor shall be liable and shall pay to the City of Rochester the amount of such excess.

XV. OBTAINING BID RESULTS

Bid results will be available on the website at www.rochesternh.gov within 48 hours of the bid opening.

BID PROPOSAL FORM
Bid # 24-10

	Description	Brand	Amount
	New Sidewalk Tractor		
	Total		

Legal Business Name:

Address: _____

City: _____ State: _____

Zip: _____

Primary Phone: _____ Email: _____

Mobile: _____ Fax: _____

Prices Good through date: _____

Authorization: _____

Print Name and Title _____

Signature: _____ **Date:** _____

****Pages 2-26 are to be submitted with bid form.**

Bid results will be posted after 48 hours on the City of Rochester's web site:

www.rochesternh.gov or will be available by request via e-mail at the following address:

purchasing@rochesternh.gov