

**CITY OF ELBERTON, GEORGIA  
REQUEST FOR PROPOSAL**

<b>RFP TITLE</b>	Ride-on RTX 750 Quad Track Tractor
<b>ISSUE DATE</b>	November 12, 2018
<b>DUE DATE</b>	November 26, 2018 2:00 p.m.

**IMPORTANT NOTE:** Indicate company name and RFP Title on the front of the sealed bid envelope.

The City of Elberton is seeking competitive **sealed bids** for all costs pertaining to the project as described on the following pages.

Sealed bids will be received by the City Clerk of the City of Elberton until 1:59 pm local time on November 26, 2018 at which time they will be publically opened and read aloud. The bid opening will begin promptly at the appointed time at City Hall located at 203 Elbert Street. No bids may be submitted after the bid opening begins. The bidder is solely responsible for the timely submission of his bid.

No bid may be withdrawn for a period of forty-five (45) calendar days after the bid opening.

**The City reserves the right to evaluate bids, to reject any and all bids, to waive formalities within the scope of authority, and further specifically, the city reserves the right to make award in the best interest of the City of Elberton.**

Direct all questions on bidding procedure to:

Cindy Churney, City Clerk  
706-213-3105  
[cchurney@cityofelberton.net](mailto:cchurney@cityofelberton.net)

Direct all questions on the scope of work to:

Grant Jones, Director of  
Operations - Natural Gas  
706-213-3166  
[gjones@cityofelberton.net](mailto:gjones@cityofelberton.net)

## **Ride-on RTX 750 Quad track Tractor Bid Specifications**

### **General**

Unit must be in the 74 gross hp class (55 kW), four-wheel drive, rigid frame, hydrostatic ground drive with quad track system/tire compatibility, four-wheel steer, hydrostatic attachment drive, ride-on unit. Basic unit must have a minimum operating weight of 9330 lb (4232 kg) when equipped with the quad track system and six-way backfill blade and 5900 lb (2676.2 kg) when equipped with tires and six-way backfill blade. Length of basic unit must not exceed 11.1' (3.4 m) when equipped with the quad track system and six-way backfill blade, 10.5' (3.2 m) when equipped with tires and six-way backfill blade. Maximum operating height (for both tires and tracks options) must be 100.3" (254.6 cm). Minimum backfill blade lift above ground must be 25.6" (64.8 cm) and minimum angle of approach must be 25° with backfill blade fully raised with 38" x 14" x 20" (96.5 cm x 35.6 cm x 51 cm) tires. Unit shall be a maximum of 72" (182.9 cm) wide when equipped with tires – 78.5" (199.4 cm) wide when equipped with the quad track system.

### **Engine**

Must have an industrial, liquid-cooled, turbocharged diesel engine equal to 74 gross hp (55 kw) at 2600 rpm with a displacement of 177 cu in (2.9 L). Engine must be rubber-mounted to the mainframe. Engine must have a maximum full-load operating rpm of 2600. The engine must be equipped with a spin-on replaceable oil filter. The unit must be equipped with a fuel tank with a minimum capacity of 27 gal (102.2 L).

### **Axles**

Must have two heavy-duty matched Dana planetary axles with a load rating of 11,250 lb (5102.9 kg). Unit must be a true four-wheel drive utilizing electric over hydraulic locking differentials for plowing and trenching applications. Front axle must have a minimum of 16° of oscillation when equipped with tires, 10° of oscillation when equipped with the quad track system.

### **Quad Track System**

The unit must have the ability to use the optional quad track system. The tracks are to have a combined ground contact area of 2736 sq in (17,651.6 cm<sup>2</sup>). The unit must have a maximum ground pressure of 3.4 psi (.2 bar) (basic tractor, quad tracks and backfill blade).

### **Steering**

Hydraulic front-wheel steering must be automotive-type through a single steering cylinder by means of a steering wheel. Steering cylinder must be mounted above axle for protection and be an integral part of axle assembly. Unit must be equipped with rear steer for operating in constricted areas. With four-wheel steering, outside turn diameter must not exceed 16.8' (5.1 m) when equipped with tires and 23' (7 m) when equipped with the quad track system.

## **Controls**

Tractor controls must be conveniently located for ease of operation and accessibility from the operator seat. Unit must have an operator presence feature that requires the operator to remain in the tractor seat during operation of rear attachments or ground drive. Electronic throttle must be standard. Backfill blade controls must be of a manual type. Creep and attachment speed controls must be of an Electronic Displacement Control (EDC) actuated type, and controls must be mounted on the seat platform to the right of the operator. All attachment controls must rotate with the operator's seat. Unit must be equipped with creep override. Unit must be equipped with an automotive-style horn.

## **Operator's Station**

Seat must swivel 0-90 degrees towards the right-hand side of the machine to provide the operator a clear view of the trenching, plowing or rock wheel operation and access to attachment controls without leaving the seat.

## **Hydraulic System**

Tractor must be equipped with oil cooler and a hydraulic oil reservoir with a 23 gal (87.1 L) capacity minimum. The hydraulic system must consist of an auxiliary pump with 19.4 gpm (73.4 L/min) flow at 2600 rpm, a ground drive pump with 35 gpm (132.5 L/min) flow at 2500 rpm and an attachment pump with 35 gpm (132.5 L/min) flow at 2500 rpm. Hydraulic reservoir must be bolted to the frame. System must also include a hot oil shuttle that pulls hot oil from the attachment drive loop and recirculates the hot oil through the oil cooler, reservoir and filter, cooling and cleaning the oil.

## **Brakes**

The braking system is to consist of a primary service brake (hydrostatic braking), secondary service brake (hydraulically actuated wet multidisc) and a parking brake [spring-applied hydraulic release (SAHR) wet multidisc]. The secondary service brake and the parking brake are to be totally enclosed and running in oil to avoid corrosion and damage from obstructions.

## **Ground Drive**

Speed while trenching or transporting must be through hydrostatic drive with infinitely variable speed control both forward and reverse. The servo-controlled hydrostatic ground drive pump must have a minimum capacity of 35 gpm (132.5 L/min) at 2500 rpm with a relief pressure of 4350 psi (299.9 bar). The pump will use Electronic Displacement Control (EDC) with standard load control. The transfer case must have two speed ranges for maximum operational performance. The two speeds must consist of a low (creep) and high (transport) range. Creep range used for operating all attachments, with the high range to be used for backfilling and/or transporting the machine. Transport speed must be 5 mph (8.1 km/h) maximum when equipped with tires.

### **Backfill Blade**

Must have a six-way hydraulic backfill blade controlled with a joystick from the operator's position. The joystick must control lift, swing and tilt functions. Blade must have a minimum width of 72" (182.9 cm) when equipped with tires, 78.5" (199.4 cm) when equipped with the quad track system and lift above ground level of 25.6" (64.8 cm) and drop below ground level of 16.3" (41.4 cm) with 38" x 14" x 20" (96.5 cm x 35.6 cm x 51 cm) tires. Hydraulic angle must be a minimum of 30° left and right; hydraulic tilt angle must be a minimum of 12° each direction.

### **Attachment Drive**

A servo-controlled hydrostatic pump with infinitely variable speed control must drive attachments. The hydrostatic attachment pump must have a minimum capacity of 35 gpm (132.5 L/min) at 2500 rpm with a relief pressure of 5500 psi in (379.2 bar) (trencher/forward). The digging attachment must utilize a charge pressure boost system to protect the system during high-pressure spikes. Unit must be equipped with a quick-change double-pin blade mount. Plow blades must be capable of three different depths.

### **Trencher Attachment**

The digging attachment, model TR750, must be hydrostatic drive with a maximum length of 84" (213.4 cm) (measured from centerline of axle) when equipped with a 60" (152.4 cm) boom. The digging attachment must have a greasable end idler. The digging attachment will have a head shaft height of 30" (76.2 cm). The digging attachment must be available with dual 15 or 27" (38.1 or 68.6 cm) augers. The digger drive sprocket must be designed for easy replacement. The minimum trench width capacity must be 12" (30.5 cm). Trench depths must be available up to 84" (213.4 cm) in depth. Trench widths must be from 6-12" (15.2 - 30.5 cm).

### **Trencher Chain**

Digging chains must be 90,000 lb (40,823.3 kg) (Vermeer 3990) or 110,000 lb (49,895.2 kg) (Vermeer 2134) test with 3" (7.6 cm) pitch chain. Chains must be available in frost- type for year-round use. Frost- and dirt-type chains must be interchangeable on the boom. An optional hydraulic trench cleaner for the digging chain must be available for a more even trench bottom.

### **Trencher Teeth**

Teeth must be made of steel with hard-facing and heat-treated for longer life. Bolt-on adapters using a rock/frost bit with carbide insert must be available for rock, frost or other adverse soil conditions.

### **Backhoe**

The backhoe, model B750, must have a center-mounted seat and a double joystick lever control. Unit must have a minimum digging depth of 96.8" (245.9 cm), 93.2" (236.7 cm) measured to a 2 sq ft (.2 sq m) flat bottom hole, a reach of 151.1" (383.8 cm), and a minimum 170° swing arc. The breakout force must be (bucket) 6553 lb-force (2972 kg-force) and (dipper stick) 3607 lb-force (1636 kg-force). The backhoe

must have remote controls allowing the operator to move the tractor forward/reverse in creep, raise and lower the backfill blade, shutdown and restart the engine, and control the engine rpm by use of a throttle switch (electric). The backhoe bucket must be available in standard widths of 12 and 18" (30.5 and 45.7 cm). The backhoe bucket must be heavy-duty with pin-on replaceable teeth.

### **Manuals**

A full set of operator's, maintenance and parts manuals shall be supplied with the machine. A cabled operator's manual printed on water-resistant paper placed in a weather-tight storage box shall be provided near the control panel.

### **Attachment Must Include**

- 1) SOTR750 sliding offset trencher equipped with a minimum depth of 72" (182.88cm) and minimum of 8" wide with rock teeth
- 2) 5750 backhoe with greaseless and greasable pins with digging depth of 8' 6" minimum
- 3) 2 Post ROPS with Canopy
- 4) Quad track system

## BID SHEET

The City of Elberton is seeking bids for a Ride-on RTX 750 Quad Track Tractor including delivery and all charges as follows:

**NOTE:** Enclose brochure(s), pictures, and technical specifications for bid.

Specifications	Check if bid meets specification listed	If bid does not meet specifications list, please explain
General		
Engine		
Axles		
Quad Track System		
Steering		
Controls		
Operator's Station		
Hydraulic System		
Brakes		
Ground Drive		
Backfill Blade		
Attachment Drive		
Trencher Attachment		
Trencher Chain		
Backhoe		
Manuals		
Other Attachment Specifications		
SOTR750		
B750		
2 POST ROPS w/canopy		
Quad track system		

**TOTAL BID AMOUNT FOR THE ABOVE DESCRIBED PROJECT:** \_\_\_\_\_

## BID CERTIFICATION

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a bid for the same materials, supplies, equipment or service, that it meets or exceeds all the specifications contained herein, and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of state and federal law, and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of this bid, all specifications as stated, all bid prices, and certify that I am authorized to sign for the bidder.

Company Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Phone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail: \_\_\_\_\_

Print Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Title: \_\_\_\_\_ Date Certified: \_\_\_\_\_