



Public Works Committee Agenda Item

Date: September 23, 2013
Subject: Purchase of Compact Excavator

Background:

The City advertised for quotes on a Compact Excavator in the Belleville News Democrat on August 13, 2013, and placed a notice on the City's web page as well. Two companies submitted bids – Erb Equipment of Mitchel, IL and Bobcat of St. Louis. The bid tab is attached.

Erb bid \$66,465 for a unit meeting all the specifications.

Bobcat bid \$64,490. Following are the specification deficiencies of the Bobcat unit:

1. Boom swing speed
2. Hydraulic pump flow rate (affects operation of attached equipment)
3. Rubber track width is wider (affects travel and use in tight places)
4. Rubber track ground pressure (potential for additional damage to landscaped areas)
5. No back fill blade (small dozer blade for leveling of excavations and stabilizing machine)

Additionally, the Bobcat unit:

1. Will not be able to use City's current dig-buckets due to attachment coupler differences.
2. Has a dumping height short of current City unit, making loading of dump trucks more difficult.
3. Has less arm break out force.

As the Erb unit is built by John Deere, it will allow stock of similar oil filters, hydraulic filters, air filters, and other maintenance items that are used for our compact excavator.

Budget Impact: \$75,000 was budgeted for the compact excavator in the approved FY14 Streets, Water and Wastewater Budgets.

Staff recommendation: Staff recommends acceptance of the Erb bid as the lowest responsive bid at \$66,465.

City of O'Fallon
Bid Tab

COMPACT EXCAVATOR
August 27, 2013

Bobcat of St. Louis Erb Equipment
Fairview Heights, IL Mitchell, IL

ITEM DESCRIPTION	QTY.	U.P.	TOTAL	U.P.	TOTAL
1 Compact Excavator (to include all options & accessories on Proposal Pages 3 - 5)	1	L.S.	\$64,469.35	\$66,465.00	\$66,465.00
TOTAL			\$64,469.35		\$66,465.00

Order #: P1218353
Class: 300 - LE-
GALS
Adtaker: TMH
Name: O'FALLON
CITY OF (ND)
Ad size: x

**PUBLIC NOTICE
NOTICE TO BIDDERS**

The City of O'Fallon, St. Clair County, Illinois, will receive sealed bids for a "COMPACT EXCAVATOR" until 8:30 a.m. on August 27, 2013, at the office of the City Clerk in the City Hall, in the City of O'Fallon, Illinois. All bids will be publicly opened and read aloud at 8:30 a.m., August 27, 2013. The sealed bids must be delivered to the City Clerk before 8:30 a.m., during regular business hours. The Proposal is on file at the office of the City Engineer of the City of O'Fallon at 255 South Lincoln Avenue, O'Fallon, Illinois, 62269.

Proposals shall be submitted in a sealed envelope marked with the Bidder's complete name, address and the wording "COMPACT EXCAVATOR".

No Bidder may withdraw his bid for a period of thirty (30) days after the actual date to the opening thereof. The City of O'Fallon, Illinois, reserves the right to reject any or all bids and to waive any informalities or technicalities in the bidding.

**CITY OF O'FALLON,
ILLINOIS**
By: Philip Goodwin,
City Clerk
L-P1218353 (Aug. 13)

*To run in BND
Tues. Aug. 13th
Total \$95.58*

NOTICE TO BIDDERS

The City of O'Fallon, St. Clair County, Illinois, will receive sealed bids for a "**COMPACT EXCAVATOR**" until **8:30 a.m. on August 27, 2013**, at the office of the City Clerk in the City Hall, in the City of O'Fallon, Illinois. All bids will be publicly opened and read aloud at **8:30 a.m., August 27, 2013**. **The sealed bids must be delivered to the City Clerk before 8:30 a.m., during regular business hours.** The Proposal is on file at the office of the City Engineer of the City of O'Fallon at 255 South Lincoln Avenue, O'Fallon, Illinois, 62269.

Proposals shall be submitted in a sealed envelope marked with the Bidder's complete name, address and the wording "**COMPACT EXCAVATOR**".

No Bidder may withdraw his bid for a period of thirty (30) days after the actual date to the opening thereof. The City of O'Fallon, Illinois, reserves the right to reject any or all bids and to waive any informalities or technicalities in the bidding.

CITY OF O'FALLON, ILLINOIS

By: Philip Goodwin, City Clerk

All prices are F.O.B.

Public Works Compound
318 W 2nd St
O'Fallon, IL 62269

PROPOSAL

COMPACT EXCAVATOR

O'FALLON, ILLINOIS

AUGUST 2013

**CITY OF O'FALLON
OPERATIONS GROUP**

NOTICE TO BIDDERS

The City of O'Fallon, St. Clair County, Illinois, will receive sealed bids for a "**COMPACT EXCAVATOR**" until **8:30 a.m.** on **August 27, 2013**, at the office of the City Clerk in the City Hall, in the City of O'Fallon, Illinois. All bids will be publicly opened and read aloud at **8:30 a.m., August 27, 2013**. **The sealed bids must be delivered to the City Clerk before 8:30 a.m., during regular business hours.** The Proposal is on file at the office of the City Engineer of the City of O'Fallon at 255 South Lincoln Avenue, O'Fallon, Illinois, 62269.

Proposals shall be submitted in a sealed envelope marked with the Bidder's complete name, address and the wording "**COMPACT EXCAVATOR**".

No Bidder may withdraw his bid for a period of thirty (30) days after the actual date to the opening thereof. The City of O'Fallon, Illinois, reserves the right to reject any or all bids and to waive any informalities or technicalities in the bidding.

CITY OF O'FALLON, ILLINOIS

By: Philip Goodwin, City Clerk

All prices are F.O.B.

Public Works Compound
318 W 2nd St
O'Fallon, IL 62269

PROPOSAL

COMPACT EXCAVATOR

O'FALLON, ILLINOIS

Note(s) to Bidders:

- 1 . This solicitation does not commit the City of O'Fallon to award a contract, to pay any cost incurred in the preparation of applications submitted, or to procure or contract for the services
- 2 . All proposals must be submitted under sealed cover and mailed or hand delivered prior to August 27, 2013, 8:30 am:

City of O'Fallon
City Clerk
255 South Lincoln Avenue
O'Fallon, Illinois, 62269

Each sealed envelope containing a bid shall be marked on the outside with the Bidder's complete name, address and the wording "COMPACT EXCAVATOR".

- 3 . All bids must be submitted using the following proposal documents.
- 4 . In order to be a valid bid, all bids must be signed.
- 5 . No alternate bids will be accepted.
- 6 . All questions concerning bid documents or products must be submitted in writing and delivered to the City of O'Fallon, Public Works Department at 255 S Lincoln Ave, O'Fallon, IL 62269 or by email to jthieleman@ofallon.org.
- 7 . Delivery is to be made to the Public Works Compound, 318 W 2nd St, O'Fallon, IL 62269. At the time of the scheduled delivery, you will be required to set up, test and provide a demonstration of the operation of the equipment.

PROPOSAL

COMPACT EXCAVATOR

O'FALLON, ILLINOIS

To: The Mayor and City Council
City of O'Fallon, Illinois

The undersigned, having familiarized (himself) (itself) (themselves) with the information contained within this entire solicitation and applicable amendments, submits the attached Proposal, on file in the Engineering Group of the City Clerk of the City of O'Fallon, Illinois, hereby proposes to supply everything required in connection with the **COMPACT EXCAVATOR** for the City of O'Fallon, Illinois, all in accordance with the Schedule of Quantities and Unit Prices, including:

ADDENDA NUMBER

DATE

issued thereto and acknowledged herein, for the unit prices given in the following **SCHEDULE OF QUANTITIES AND BID UNIT PRICES:**

By: _____

Title

Date: _____

Official Address:

PROPOSAL

SPECIFICATIONS FOR **COMPACT EXCAVATOR**

Engine

- (1) The excavator engine power will be rated at no less than 53 hp (39.6 kw).
- (2) Engine displacement shall be no less than 302 cu in (3.3 L).
- (3) Service interval for the engine oil, oil and fuel filters shall be at 500 hours to reduce operating and maintenance costs.
- (4) The operator will be able to choose an exact engine rpm for operating conditions, using an electronic rotary dial system or equivalent.
- (5) The engine will have a self-priming pump for quick re-start if it runs out of fuel.
- (6) The fuel filter will have a water separator.
- (7) The engine will be certified to EPA Final Tier 4/EU Stage IV emissions.

Cooling

- (1) A coolant recovery tank will be standard and will display the coolant level.
- (2) Unit shall have a fan-guard.
- (3) The radiator and oil cooler will be installed in parallel for ease of cleaning and more efficient cooling.
- (4) The cooling fan will be equipped with a linear clutch to adjust fan speed continuously to reduce noise and fuel consumption.

Power Train

- (1) Two speeds will be standard with auto-shifting when travel motors encounter heavier load.
- (2) In high speed, the machine shall reach 2.9 mph (4.8 km/h) to improve job site maneuverability.
- (3) The swing speed shall be at least 9.5 rpm.
- (4) The two speed propel switch will be located for convenient operation.
- (5) The swing brake shall be automatic, spring applied, hydraulically released and maintenance free.
- (6) The propel brake shall be automatic, spring applied, hydraulically released and maintenance free.

Hydraulic System

- (1) The hydraulic system will be open center type with one piston pump.
- (2) The pump flow rate shall be at least 38 gpm (144 L/m).
- (3) The auxiliary pump flow shall be at least 22.5 gpm (85.2 L/m).
- (4) The controls shall be hydraulic, pilot operated for boom, arm, bucket, swing, boom-swing swing, backfill blade, travel and auxiliary functions.
- (5) The hydraulic oil tank will have an oil level sight gauge for fast and easy monitoring.
- (6) Wear-resistant hoses will be protected in critical joints.

- (7) Hydraulic oil change will have a service interval of at least 2000 hours.
- (8) A control pattern changer valve will be provided (excavator to backhoe control) and will display the selected pattern.
- (9) Auxiliary hydraulics with convenient flat face quick couplers that connect and disconnect under pressure shall be standard.

Electrical

- (1) The alternator shall be rated at 70 amps, 12 volts.
- (2) Switches and electrical connectors are sealed from moisture and dirt to help prevent corrosion.

Undercarriage

- (1) The undercarriage will be high density rubber tracks for durability.
- (2) The steel core will have curved ends to protect the rubber shoe edge from damage even when riding on curbs.
- (3) The width of the rubber track shall be at least 16 in (400 mm).
- (4) Ground pressure with rubber track shall be no more than 4.93 psi (34 kPa).
- (5) Track ground contact with rubber track shall be no less than 6 ft 6 in. (2.5 m).
- (6) Track tension will be maintained without special tools, using common tools like grease gun and wrench.

Upperstructure

- (1) The upperstructure will be capable of a 360 degree rotation.
- (2) The swing boom to the left shall be no less than a 80 degree arc.
- (3) The swing boom to the right shall be no less than 60 degrees.
- (4) The boom cylinder shall be protected with a guard to reduce the likelihood of cylinder damage.
- (5) The hoses in the articulation joint shall be protected by a guard.
- (6) The swing post will have a single pin to improve the stiffness in the boom and arm.

Front Attachments

- (1) The standard boom shall be no less than 9 ft. 9 in (2965 mm).
- (2) The long arm shall be no less than 6 ft 1 in (1850 mm) and NOT be an extended boom style.
- (3) The bushings will be oil-impregnated to enhance durability and extend grease intervals to 500 hours for the arm-and-boom joint, and 100 hours for the bucket.
- (4) The backfill blade will be as wide as the tracks.
- (5) The backfill blade digging depth shall be no less than 1 ft 3 in (390 mm) drop below ground.
- (6) The backfill blade lift shall be no less than 1 ft 6 in (450 mm) above ground.
- (7) The backfill blade height shall be at least 16 in (420 mm).
- (8) The backfill blade shall be hydraulic angle with activation on up/down control handle. Mechanical wedge style bucket coupler shall be provided to make bucket changing easier and
- (9) must be of same style as customer's current excavator so buckets and attachments can be interchanged.
- (10) Hydraulic quick couplers to end of boom shall be standard.

Operator Station

- (1) The operator structure shall meet ROPS/TOPS/OPG standards.
- (2) The operator station shall be enclosed and furnished with AC and heater/defroster.
- (3) The operator station will be mounted on shock-absorbing rubber mounts to ensure comfortable operation.
- (4) The operator station shall also be wired for future radio and include speakers and antenna factory installed.
- (5) When not in use, the foot pedals shall be foldable to provide additional foot room.
- (6) 2 in (50 mm) Retractable seat belt shall be provided.
- (7) The monitor shall have gauges to display the coolant temperature and fuel level.
- (8) The monitor will have the following indicators: engine oil pressure; high coolant temperature; engine preheat; low fuel; alternator voltage.
- (9) An hour meter shall be on the monitor in the operator's station.
- (10) The monitor shall include two trip meters that can be set independently of each other for service or job related hours.
- (11) Wrist rests will be standard.
- (12) A cup holder will be provided.
- (13) A storage compartment in the operator's station shall be provided for the operator's manual.
- (14) A 12 -volt auxiliary power port shall be standard.
- (15) The seat will be adjustable forward and back.
- (16) A horn will be standard.
- (17) A motion alarm with cancel switch will be standard.

General Specifications

- (1) The operating weight with long arm and additional counterweight shall be approximately 14,204 lbs (6443 kg).
- (2) The digging depth with long arm shall be no less than 13 ft 6 in (4.12 m).
- (3) Digging reach with long shall be no less than 21 ft 6 in. (6.56 m).
- (4) The maximum dumping height shall be no less than 14 ft 6 in (4.41 m).
- (5) The maximum transport length shall be 19 ft 4 in (5.9 m) and the transport width shall be no more than 6 ft 7 in (2 m).
- (6) The bucket breakout force shall be no less than 9217 lb (41.0 kN).
- (7) The arm breakout force with standard arm shall be no less than 6969 lb (31.0 kN).
- (8) The ground clearance under the excavator shall be at least 1 ft 1 in. (.34 m).
- (9) The undercarriage X-beams and track frames shall be sloped to shed material buildup for easier clean-out.
- (10) All service checks shall be easily accessible without using tools to open covers.
- (11) The floor can be tilted for easy, quick servicing without disconnecting hoses or draining fluid.

PROPOSAL

COMPACT EXCAVATOR

SCHEDULE OF QUANTITIES AND UNIT PRICES

<u>ITEM NO</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
1	Compact Excavator (to include all options & accessories on Proposal Pages 3 - 5)	1	L.S.		
				<hr/> Total	<hr/>

PROPOSAL

NON-COLLUSION AFFIDAVIT

The bidder, by its officers and their authorized agents or representatives present at the time of filing this bid, being duly sworn on their oaths, say that neither they nor any of them have in any way, directly or indirectly, entered into any arrangement or agreement with any other bidder, nor with any public officer of the CITY OF O'FALLON whereby such affiant or affiants, or either of them, has paid or is to pay to such other bidder or public officer any sum of money; nor has given or is to give such other bidder or public officer anything of value whatever, or such affiant or affiants; or either of them, has not, directly or indirectly, entered into any arrangement or agreement with any other bidder or bidders, which tends to or does lessen or destroy free competition in the letting of the Contract sought for by the attached bids; nor any inducement of any form or character, other than that which appears upon the face of the bid, will be suggested, offered, paid or delivered to any person whomsoever to influence the acceptance of the said bid or awarding of the Contract; nor has this bidder entered into any agreement or understanding of any kind whatsoever, with any person, in any way or manner, for any of the proceeds of the contract sought by this bid.

_____ BY: _____
BIDDER - COMPANY NAME

_____ TITLE _____ DATE _____
ADDRESS

CITY / STATE / ZIP

Subscribed and sworn to before me this _____ day of _____, 20____.

My commission expires: _____
NOTARY PUBLIC

NOTE: Bidders should not add any conditions or qualifying statements to this bid, as otherwise the bid may be declared irregular as being not responsive to the advertisement for bids.



TO: All Plan Holders
FROM: City of O'Fallon
DATE: August 15, 2013
SUBJECT: Addendum No. 1
Compact Excavator
For the City of O'Fallon, Illinois

We are attaching Addendum No. 1 dated August 15, 2013, to the Bidding Documents above and ask that you take same into consideration in submitting your proposal.

BIDDERS SHALL NOTE IN WRITING ON THE PROPOSAL FORM THAT ADDENDUM NO. 1 HAS BEEN RECEIVED AND IS HEREBY ACKNOWLEDGED. FAILURE TO DO SO WILL BE SUFFICIENT CAUSE TO REJECT THE BID.

Bids are due at the O'Fallon City Hall, 255 South Lincoln, O'Fallon, Illinois 62269 at 8:30 am prevailing time on August 27, 2013.

Sincerely,
CITY OF O'FALLON

Dennis Sullivan, P.E.
City Engineer

DLS;jt

Attachment: Addendum No. 1 dated August 15, 2013.

**Addendum No. 1
Compact Excavator
for the
City of O'Fallon, Illinois**

August 15, 2013

NOTE: Wherein this Addendum conflicts with the original Bidding Documents or previous Addendum, this Addendum shall govern.

1. Page 3 of the Proposal - Engine
Item 2 should read Engine displacement shall be no less than **203** cu in (3.3 L).
2. Page 4 of the Proposal - Electrical
Item 1 should read The alternator shall be rated at **55** amps, 12 volts.
3. Page 4 of the Proposal - Front Attachments
Add Item 11 An 18" heavy duty tooth bucket with 4 teeth and minimum of 5.1 cu ft. capacity shall be furnished.
Add Item 12 A 36" heavy duty tooth bucket with 6 teeth and minimum of 12.5 cu ft. capacity shall be furnished.
4. Additional - General Bid Information
 1. All service parts need to be in stock or available in 24 hours or less
 2. Pick-up and delivery for warranty and/or service shall be at no charge to the customer.
 3. All bidders must answer every line on this bid spec and list all deviations on a separate page. Bidders that do not comply with this will be automatically rejected.