



**City of Rochester**

Department of Finance  
City Hall Room 105A, 30 Church Street  
Rochester, New York 14614-1281  
www.cityofrochester.gov



Bureau of Purchasing

July 29, 2013

**ADDENDUM NO. 1**

Invitation to Bid No. 400430

**RE: CRANE-KNUCKLE BOOM/DUMP BODY, WITH CHASSIS FRAME LENGTHENING**

Instruction to Bidders:

1. **Replace pages 1 - 28 with the enclosed pages 1A – 30A.**
2. **The new Bid Opening date is Tuesday, August 20, 2013 at 11:00 a.m.**

SIGN the Addendum below acknowledging receipt and understanding, INSERT it in the bidding document, and RETURN it with your bid.

CITY OF ROCHESTER

Charles Zettek, Jr.  
Purchasing Agent

The undersigned bidder acknowledges receipt & understanding of Addendum No.1

\_\_\_\_\_, 2013 \_\_\_\_\_



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**PRINTED NAME OF BIDDER**

**CRANE-KNUCKLE BOOM/DUMP BODY, WITH CHASSIS FRAME LENGTHENING**

Invitation to Bid No. 400430

Issued: July 29, 2013

**PURCHASING BUREAU CONTACT: Tymothi Howard, Purchaser, 585-428-7219**

Bid responses are to be returned to the Office of the Purchasing Agent, City Hall Room 105A, Rochester, NY 14614, by the date and time indicated, at which time and place all bids will be opened, read and recorded:

**BID OPENING: Tuesday, August 20, 2013 at 11:00 a.m.**

The bidder's attention is directed to the General Conditions and Instructions to Bidders which appear immediately following this title page and are incorporated into the bidding document and contract by reference.

**CONTRACT CHARACTERISTICS**  
(For definitions or explanations, see General Conditions)

Type of Contract: **TERM CONTRACT, 90 DAYS**

Bid Deposit Requirement: **NONE**

Performance Security Requirement: **NONE**

Insurance Requirement: **NONE**

Samples Requirement: **UPON REQUEST**

Descriptive Literature/Technical Data Requirement: **SUBMITTED WITH BID**

**BIDDERS:** Please note that prices, company identification and authorized signature are to be entered on the Proposal which appears at the end of the specifications.

400430\_ADDENDUM

**1. GENERAL INTENT OF SPECIFICATIONS**

- 1.1 The following specifications are intended to meet the requirements of the City of Rochester for the purchase of a Prentice or Rotobec 22 ft. hydraulically operated knuckle boom extendable to 25 ft. with a 29 cu. yard (22') dumping body mounted on a 2013 International chassis to be used in the loading and hauling of tree logs, brush, soil and stump chippings. The chassis will be supplied by the City and it will be the bidders responsibility to extend the chassis frame and move the tandem axle to accommodate the loader and dump body per OEM specifications.
- 1.2 Wherever in these specifications a particular make or model number is indicated, it is done solely to establish the level of quality desired. This should not be interpreted to mean that the make or model specified is the only one acceptable.
- 1.3 However, if the bidder submits a bid on a make or model other than specified, he must present with his bid a detailed specification describing the items he proposes to furnish.
- 1.4 The bidder shall point out in detail wherein the item(s) he proposes to furnish differs from the items called for in these specifications. The Purchasing Agent of the City of Rochester reserves the right to consider whether in his judgment, a substitute meets the requirements of this specification, and the Purchasing Agent's judgment shall be considered final.
- 1.5 Where any part or parts of the equipment are not specified or specifically mentioned, it shall be understood that what is usually provided at the manufacturer's stock model shall be furnished together with full appurtenances complete and ready for operation.

**2. BASE BID**

Attention of the Bidder is called to the fact that the Proposal and Bid Form requires, under Base Bid, the Net Delivered Price covering the item(s) specified. Any deductions for freight allowance, cash discount, or quantity rebate should be included in the total net price, as given on the bidding sheet, and should not be listed as separate items.

**3. CONTRACT PERIOD**

Contract period shall be for ninety (90) calendar days or until completion of the contract . The Contract shall commence on the date of Award.

**4. PRICES**

It shall be understood and agreed the prices bid shall be firm (not subject to change) for the contract period.

5. QUANTITY

5.1 Advertisement and receipt of bids for any award of this contract for the equipment specified herein only signifies the City's intention to purchase the equipment specified. This contract shall not obligate the City to purchase any equipment. However, if the equipment specified is ordered during the period specified in this contract, the equipment will be ordered from the contract vendor.

6. CHANGE ORDERS

Minor changes to the equipment specifications may be made subsequent to the order but prior to delivery upon the mutual written agreement of the vendor and the City. Such changes are intended to permit modifications for upgrades or improvements during construction which the City determines will improve the quality and/or efficiency of the equipment. Additions or deletions which affect the final total cost must be authorized by a Change Order approved by the Purchasing Agent.

7. INSTRUCTIONS TO BIDDERS

7.1 Proposals will be received by the Purchasing Agent of the City of Rochester in accordance with Contract Documents set forth herein.

7.2 Bid shall be made only on the form(s) provided with this specification.

8. COMPLIANCE WITH LAWS

The bidder shall at all times observe and comply with all laws, ordinance and regulations of the Federal, State, Local and City Government, which may in any manner affect the preparation of proposals of the performance of this contract.

9. TAX

The City of Rochester is exempt from paying Manufacturer's Excise, Floor or Sales Tax and for that reason, the bid Price shall not include any tax on the item(s) specified. The City of Rochester will furnish a signed exemption form covering the tax, if any, applying to the item or items covered by this specification, as may be required by law.

10. DELIVERY DATE

10.1 The City of Rochester requires delivery of the Equipment as soon as possible, but not later than one hundred and twenty (120) calendar days from receipt of the City purchase order. The unit(s) shall remain the property of the bidder until accepted by the City of Rochester. Upon delivery, the unit(s) shall be thoroughly tested in operation in the presence of an authorized representative of the City to check on the performance of the equipment and operation of the unit as a whole.

The successful bidder shall make, at his own expense, any adjustments or alterations that may be required by the City as a result of the operation test.

- 10.2 Each bidder is required to list on the Proposal and Bid Form the latest date he expects delivery to be made at destination as defined in the "DELIVERY" section. Failure to include a specific date may be sufficient grounds for rejection of bid.

## 11. DELIVERY

The successful bidder shall deliver the completed unit F.O.B. to the City of Rochester, 945 Mt. Read Blvd, Rochester, New York.

## 12. EXTENSIONS OF TIME - EXCUSABLE DELAYS

- 12.1 The Purchasing Agent may grant extensions of the Contract time of completion for any delays resulting from cause beyond the Contractor's control, which are not to be considered normal hazards of the Contract. Delays of this classification are as follows:

12.1.1 Acts of the Federal Government, including: controls or restrictions upon the use or obtaining of materials, equipment, tools or labor essential to completion of the work, by reason of war, national defense, or any other national emergency.

12.1.2 Acts of the City, including but not limited to changes in the method or the scope of work covered by the contract, upon order of the Purchasing Agent.

12.1.3 Causes not reasonably foreseeable by the parties to this contract at the time for the execution of the contract which are beyond the control of and through no fault or negligence of the Contractor. This shall include, but not be restricted to: Acts of God or the public enemy, freight embargoes, court actions, fires, floods, epidemics, quarantine and strikes, weather of unusual severity such as hurricanes, tornadoes and cyclones, and weather of unusual severity for the season which directly affect or prohibit the work under the contract.

12.1.4 Provided, however, the Contractor notifies the Purchasing Agent in writing within ten (10) days from the beginning of any such delay and detailing the causes of the delay.

- 12.2 Upon receipt of such notification, the Purchasing Agent shall ascertain the facts and the cause and extent of the delay. If, in the opinion of the Purchasing Agent, the delay is properly excusable based on the facts and terms of the contract, the Purchasing Agent may extend the time for completing delivery for a period of time commensurate with the period of excusable delay.

- 12.3 It is further agreed, that the foregoing occurrences shall not result in any claim for damages or contract adjustment other than extension of time.

**13. QUALIFICATION OF BIDDER**

**13.1 The City reserves the right to disqualify any bidder unless the firm submitting the bid can meet the following conditions:**

**13.1.1 That the manufacturer(s) or bidder(s) has in operation a factory adequate for and actively engaged in the manufacture of the equipment which he proposes to furnish.**

**13.1.2 That there are at least fifty (50) units similar to the type bid upon which have been in satisfactory operation for a period of at least two (2) years. This shall not be construed to prohibit the manufacturer to have altered or improved the design or construction of its machinery as evidenced by engineering changes incorporated in the manufacturing blueprints. Manufacturer shall furnish evidence upon request of the Purchasing Agent, that the EQUIPMENT being furnished has been commercially available through him to the trade for a period of not less than two (2) years and has been fully field tested. The City of Rochester shall verify to his satisfaction that the model to be furnished has met such field tests.**

**13.1.3 That it has or will have in operation in or reasonably near the City of Rochester, a service station adequately equipped and carrying in stock sufficient parts and service and regularly employs qualified personnel to render prompt and efficient service on the equipment bid upon.**

**13.2 Bids will be considered only from boom truck and body manufacturers and from authorized dealers of such manufacturers.**

**13.3 NOTE**

**In the event a bid submitted by other than the manufacturer, a certificate executed by the manufacturer may be required stating that the bidder is an authorized agent, dealer or distributor of the manufacturer in the Rochester, New York, area, and that the equipment offered is completely in compliance with the specifications and proposal and will be available during the life of the contract. The City reserves the right to reject any proposal from any person, firm or corporation that has failed to perform faithfully on any previous contract with the City.**

**14. METHOD OF AWARD**

**This bid will be awarded to the lowest responsive and responsible bidder per Net Delivered Unit Price.**

**15. REJECTION OF BIDS**

**15.1 The City of Rochester may reject any and all bids or proposals if the best interest of the City will be served by such action.**

- 15.2 The Purchasing Agent may reject any bid that is unbalanced, unrealistic, or where disproportionate component costs of equipment are proposed.
- 15.3 The Purchasing Agent reserves the right to reject any bidder who proposes an unacceptable product or cannot prove to the satisfaction of the City its ability to execute the terms and conditions of this contract.

16. **INFORMALITIES**

The City of Rochester reserves the right to consider informal a bid not prepared and submitted in accordance with the provisions of these specifications. It further reserves the right to waive any minor informality in form, but not in substance.

17. **INTERCHANGEABILITY**

- 17.1 All assemblies, sub-assemblies and component parts, etc., of the items supplied under these specifications shall be interchangeable throughout the quantity of units supplied.
- 17.2 The items furnished under these specifications shall be new and shall be the manufacturer's current production model.

18. **INFORMATION TO BE FURNISHED WITH BID**

- 18.1 The bidder shall submit with the bid DETAILED SPECIFICATIONS AND DRAWINGS, along with complete description including pictures and catalogs, and all other pertinent data on the equipment he proposes to furnish.
- 18.2 Bids offered without said data may be declared "INFORMAL".
- 18.3 The City, however, reserves the right to request additional information deemed necessary for proper evaluation of bids.

19. **MOTOR VEHICLES REGULATIONS**

The Equipment delivered shall be furnished with all equipment necessary to comply with all applicable rules and regulations of the New York State Department of Motor Vehicles and shall be equipped with Safety Standards required by the Federal Motor Vehicles Safety Standards established by the National Traffic Safety Administration, and the Safety Standards required by O.S.H.A. with reference to the operation of such vehicle(s) within the State of New York.

**20. SERVICING**

Each vehicle shall be completely serviced. Service shall include not less than the following: Lubrication, wash, wiring and lighting check, body conditioning and all other checks and adjustments required for proper complete servicing of new equipment. Particular attention shall be given to wiring, hardware, paint condition and overall operation. It shall be the contractor's responsibility to insure at that time that all components and accessories have been properly installed.

**21. INSPECTION OF WORK**

21.1 Representative and/or agents of the City of Rochester as designated by the Purchasing Agent of the City of Rochester shall for the purpose of inspection, have free and safe access at any and all reasonable times to the buildings and shops of the Contractor, subcontractors and material suppliers, wherever any items for this Contract are being prepared or manufactured.

21.2 If, during the final inspection of item or items to be furnished under this contract, any are found to be defective, or fail in any way to meet the terms of the contract, or fail to meet any of the specifications, the item or items will be rejected by the Purchasing Agent of the City of Rochester. Any rejected item or items shall be altered or replaced to comply with the specifications at the expense of the Contractor.

21.3 If the item or items called for in the specifications are delivered and fail to meet specifications in any respect, the bidder will be notified and he will arrange for their removal from the City of Rochester property at no expense to the City of Rochester. If the successful bidder fails to remove the items which, in the opinion of the Purchasing Agent of the City of Rochester, do not meet specifications, the City will arrange to have such items removed and any expense connected therewith will be the responsibility of the Contractor.

**22. PAYMENT OR ACCEPTANCE NOT CONCLUSIVE**

22.1 No payment made under the contract shall be conclusive evidence of the performance of the contract, either wholly or in part, and that no payment made for the delivery of the items in whole or in part shall be construed as an acceptance of defective work or improper materials, nor relieve the Contractor from making good the defects.

22.2 The final acceptance shall not be binding upon the City of Rochester nor conclusive, should it subsequently develop that the Contractor had furnished inferior items or had departed from the specifications and/or the terms of the Contract. Should such a condition become evident, the Purchasing Agent of the City of Rochester shall have the right, notwithstanding final acceptance and payment, to cause the items or item to be properly furnished in accordance with the specifications (and drawings, if any) at the cost and expense of the Contractor, or his Surety, if any.

**23. GUARANTEES AND WARRANTIES**

**23.1** The Contractor shall guarantee all equipment furnished for a period of two (2) years from date of in service if such equipment is not included in the manufacturer's standard warranty.

**23.2** The Contractor hereby warrants and guarantees for a period of two (2) years from date of equipment being placed in service, at own expense and without any cost to the City, to replace all defective parts and make any repairs that may be required or made necessary by reason of defective design, material, or workmanship, or by reason of non-compliance with these specifications. Any warranty offered by the manufacturer, over and above this two (2) year minimum warranty, shall be deemed to be part and parcel to these specifications.

**23.3** Contractor shall also furnish a copy of the standard factory warranty.

**23.4** **Warranty Work Performed**

**23.4.1** If the Contractor is local, i.e., within the City of Rochester and/or within twenty (20) road miles of the Rochester Municipal Garage at 945 Mt. Read Blvd., the City will deliver the vehicles to the Contractor's facility for work to be performed under warranty and pick up the vehicle(s) when work is completed.

**23.4.2** If the Contractor is not local, the contractor will assume the expense of all transportation costs in moving the equipment supplied under this contract, to and from the Contractor's facility where warranty and/or repair is to be performed.

**23.4.3** Upon approval from the Contractor, warranty repairs may be performed by the City. Under emergency conditions, the City WILL perform work that would normally be covered under warranty if the Contractor cannot perform the work on a timely basis. The Contractor hereby agrees to reimburse the City for all reasonable costs associated with warranty work performed by the City upon the City providing documentation of the work that was done, and to continue to honor the terms of the warranty as if the work was performed by an authorized warranty repair facility. Labor costs will be at the City's current fully loaded hourly rate structure, and parts will be billed at the City's cost. The City will notify the Contractor if the City needs to perform work covered by the warranty.

**23.4.4** In order to insure that any warranty work performed by the City is performed in accordance with OEM requirements, the City requests that the Contractor provide in-house training to selected City staff to perform warranty work. The Contractor is not required to provide such training, however, as required in Section 23.4.3, the Contractor must continue to honor the original warranty if the City performs warranty work. The Contractor may bill the City for the cost of any in-house training as agreed between the City and the Contractor. The per hour charge for a certified trainer shall be provided in the Proposal, and shall be the same as the per hour rate Training referenced in Section 56. If accepted, the City will pay

such costs of training. The Contractor, with the approval of the City, may combine this training with the training required under Section 56.

23.4.5 The Contractor will provide the City with an itemized list, including all costs, for all work performed under warranty performed by that Contractor.

**24. PAYMENT**

24.1 Payment will be made by the City to the Contractor upon delivery of an industry standard invoice within thirty (30) days after the equipment has been delivered, inspected and accepted, and approved by the Ordering Department's representative assigned to equipment purchases.

24.2 When a body is delivered by the Contractor, the City may process the invoice for the full amount of the Contract price if in the Purchasing Agent's opinion the unit(s) is in compliance with the specifications. However, if poor workmanship or deviations from specifications exist, the City may process up to 80% of the contract price upon delivery and delay payment of the balance until contractor has made all necessary corrections.

24.3 The invoice(s) shall include not less than the following:

24.3.1 City Contract Number

24.3.2 Year, Make and Model of LOADER & BODY

24.3.3 Delivery Date

24.3.4 Location of Delivery

**25. CERTIFICATES, MANUALS AND WARRANTIES**

25.1 When the units are delivered, the Contractor shall deliver to the Purchasing Agent:

25.1.1 Documents of Title

25.1.2 Certificates of Title

25.1.3 Warranty and Guarantee Certificates

25.1.4 Certification specified in the Contract

25.1.5 Manuals specified in the Contract

**26. SPECIAL NOTICE TO BIDDERS**

26.1 The successful bidder may have to furnish to the Purchasing Agent of the City of Rochester a copy of the factory order and number covering the equipment bid upon within fifteen (15) days after the date of the receipt of Purchase Order.

26.2 The Purchasing Agent of the City of Rochester may require the successful bidder to furnish copies of all letters, correspondence of purchase orders placed with the various manufacturers or suppliers for materials, supplies, and equipment being bid upon for which a contract had been awarded, as proof that the contract is being fulfilled as expeditiously as possible. Failure to furnish these documents within five (5) working days after receipt of a written request or, failure to submit documents which clearly demonstrate that the contract will be fulfilled within the required delivery date, may be deemed sufficient grounds for cancellation of the contract. The City of Rochester's Purchasing Agent's decision in these matters shall be accepted as final.

27. **DEFAULT**

27.1 The City may, by written notice of default to the Contractor, terminate the whole or any part of this contract in any one of the following circumstances:

27.1.1 If the Contractor fails to make delivery of the supplies or to perform the services within the time specified herein or any extensions thereof; or

27.1.2 If the Contractor fails to perform any of the other provisions of this contract, or so fails to make progress as to endanger performance of this contract in accordance with its terms, and in either of these two circumstances does not cure such failure within a period of ten (10) days (or such other period as the Purchasing Agent may authorize in writing) after receipt of notice from the Purchasing Agent specifying such failure.

27.2 In the event the Purchasing Agent of the City terminates this contract in whole or in part as provided in paragraph .1 of this clause, the City may procure, upon such terms and in such manner as the Purchasing Agent may deem appropriate, supplies or services similar to those so terminated, and the Contractor shall be liable to the City for any excess costs for such similar supplies or service; PROVIDED, That the contractor shall continue the performance of this Contract to the extent not terminated under the provisions of this clause.

27.3 The Contractor may be liable for any excess of costs unless he or she can prove to the Purchasing Agent that failure to perform the contract was due to causes beyond the control and without the fault or negligence of the Contractor.

28. **PERFORMANCE CHARACTERISTICS**

28.1 The detailed design specifications prescribed herein are intended to describe units which have been determined to meet performance parameters and characteristics required by the City of Rochester. Bidders having units which fully meet the intent of the specifications, may vary in non-substantial manner from the specified design characteristics, may offer such equipment as they can demonstrate meet the intended performance requirements. In such case the bidder shall be required to submit with his bid a detailed listing of design variances and a full explanation as to how the units offered will meet the desired performance characteristics. A decision as to equivalency shall be made by the City of Rochester whose decision shall be final.

28.2 The specifications are to establish a minimum acceptable standard. All products equal to these specifications will be considered provided they meet the following criteria and specifications.

29. **NON-COLLUSIVE BIDDING CERTIFICATION**

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:

29.1 The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;

29.2 Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed prior to the opening, directly or indirectly, to any other bidder or to any competitor;

29.3 No attempt has been or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

30. **PARTS AVAILABILITY**

30.1 The bidder understands and agrees that by submitting this bid he is obligated to make available to the City of Rochester Original Equipment Manufacturer's (OEM) parts for this equipment for a period of five years. In the event that during such five-year period the City is unable to establish a contract for the purchase of OEM parts by the standard advertised bidding process then the successful bidder agrees to supply to the City OEM parts at a price no greater than the then current Fleet List Price, F.O.B. delivered, within the time frames standard to the industry.

30.2 Contractor shall notify the Purchasing Agent in writing a minimum of two weeks prior to revision of price list and shall submit two copies of revised prices. New manufacturer's price lists may be submitted by the contractor not more often than at 90 day intervals.

30.3 Bidder shall quote single percentage discount only. Bids containing multiple discounts are subject to rejection.

30.4 If bid is based upon a price list other than that specified herein, the bid must be accompanied with a copy of such list, cross referenced to the part numbers of the manufacturer's price lists stipulated herein.

30.5 The City is exempt from State Sales and Federal Excise Taxes. This should be considered when quoting discount.

30.6 All orders shall be priced F.O.B. destination, including unloading at storeroom door of agency. Exceptions to this provision are not acceptable.

30.7 For emergency orders, agency may request shipment by other than normal method. The difference in transportation charges will be borne by the ordering agency. Such charges should be shown separately, on the invoice

31. Loader A Frame

31.1 To have A- Frame legs of welded high tensile steel plate with additional frame reinforcement at the point of mounting to the frame.

31.2 Swing system: continuous rotation; ring and pinion gear-set driven by an axial-piston hydraulic motor through planetary gearbox. Swing pinion is integral with gearbox output shaft.

32. Knuckle Boom

32.1 Welded high-tensile steel with heat-treated high-alloy steel pins and aluminum-bronze pivot bushings; self-aligning bushing at ends of main boom cylinder.

32.2 All grease fittings will be screw in type and on the boom assembly they must be protected from breakage with the use of guards.

32.3 Swing system to be securely locked during transit.

33. Boom Reach

Horizontal reach from center of rotation to center of grapple connection shall be 22 feet extendable to 25 feet with main boom and swing boom having simultaneous operation.

34. Lift Capacity

3,266 pounds at 20' radius and 5' elevation.

35. Boom/Connections

35.1 Boom: welded high-tensile steel Knuckle boom with heat-treated high-alloy steel pins and aluminum-bronze pivot bushings; self-aligning bushings at both end of the main boom cylinder.

35.2 Grapple Mounting Knuckle: Continuous rotation, mounting pin diameter of 1 3/4". pin-to-pin measurement 4" center to center.

36. Grapple

36.1 Largest waste collection grapple that fits this unit will be provided with welded high-tensile steel plate; 3/8" side plates, 1/2" ribs; 3/16" wear resistant steel liner plates inside jaws.

36.2 Cylinders: 2 bolt on 3-1/2" x 10.5" with 2" rod.

- 36.3 Continuous rotation.
- 36.4 Brake: Disc brake built into knuckle to retard any unwanted swaying of load; adjustable.
- 36.5 Bucket must close completely along the cutting edge, this bottom edge of bucket must be flat reverse curve type anti-scalping to prevent lawn damage. No hydraulic hoses shall extend below the bucket.

37. Power Source

- 37.1 This vehicle is equipped with an automatic transmission. The power source shall be "Hot Shift" PTO that automatically disengages the PTO when the truck is placed in gear and re-engages when the truck is placed back in neutral (ready for hydraulic operation). This eliminates the possibility of damage to the hydraulic components that could result if the operator drives the vehicle with the PTO in gear. Also provides for smooth engagement of PTO with no grinding of gears.

38. Hydraulic Components

- 38.1 Split flow tandem-circuit hydraulic system which provides fully independent simultaneous operation of main boom and swing functions.
- 38.2 Pumps: Tandem gear-type pump (2" + 1-3/4" gears) providing 19 +19 GPM at 1,300 RPM.
- 38.3 Swivel: Steel barrel and core; 8 passages for pressure, return and stabilizers.
- 38.4 Reservoir
  - Shall be approximately 47 gallons with alum round tank frame mounted with filtered breather, sight gauge, oil filter and have a 4,000 psi hose and tube rating.
  - Shall have a dash mounted low oil light with Interlock shutdown.
  - The system shall have the following Parker flush face quick couplers to attach to the City's existing hydraulic oil filtration cart:
    - FEM5O18FP female fitting to be located on bottom part of hydraulic tank
    - FEM5O28FP male fitting to be located on top part of hydraulic tank
  - Caps: FER5O1 and FER5O2 shall be provided for fittings and be secured with a lanyard. (Locations to be approved by City)
  - The vendor shall furnish and install in the hydraulic system a premium quality hydraulic oil of a high viscosity index formulated to operate in low and widely varying ambient temperatures.

**38.5 Oil Filter**

Single element 3-micron filter, built into reservoir, cleans all oil returning from all parts of the system. Bypass indicator on filter housing.

**38.6 Cylinders**

Solid rods and bolt-on heads.

**38.7 Main Boom**

4.5" bore, 2 1/2" rod.

**38.8 Tip Boom**

4.5" bore, 2-1/2" rod.

**38.9 Grapple**

2 bolt on 3-1/2" x 10.5" with 2" rod

**38.10 Control Valves**

Mono block type with anti cavitation, 3,800 psi relief pressure

**38.11 Diagnostic Nipples**

Located on control valve for service.

**38.12 Safety locking valves installed on boom and outrigger cylinders to prevent leakdown or collapse in case of hydraulic hose ruptures.**

**39. ENGINE CONTROL**

Shall be an automatic hydraulic-pressure sensing truck engine control.

**40. BOOM CONTROLS**

**40.1 Operator station rotating with boom and stabilizer controls with folding seat, arm rest and safety railing. Mechanical controls operated by two (2) joysticks and two (2) pedals through mechanical linkage.**

Main boom and swing boom shall have simultaneous operation.

**40.2 A warning light shall be installed on the cab dash to indicate when the boom is in an elevated position or not fully nested.**

**40.3 An auxiliary horn & horn button shall be provided at the control station within easy reach of the operator.**

- 40.4 An emergency shut-off switch shall be provided at the operator control station within easy reach of the operator.

41. **OUTRIGGER STABILIZERS**

- 41.1 Hydraulically powered stabilizing outriggers will be mounted to the chassis frame directly behind the cab, in such a manner as to provide a positive stability with the work platform at its maximum elevation and maximum rated loading at any point on the platform. Outrigger legs will be equipped with self-leveling pads. Double lock valves secure the legs in the fully retracted, and fully extended positions within the overall width of the truck. A labeled, amber, dash mounted light will indicate when outriggers are not fully retracted.
- 41.2 Outriggers to be equipped with 12" square steel pads with rubber inserts to minimize damage to pavement, they must telescope out and down to reach a horizontal distance of approximately 112" at grade and 122" at 8" below grade.
- 41.3 Outriggers will be equipped with D. O. T. reflective safety tape which can be seen on sides when in use.

42. **OUTRIGGER CONTROLS**

Each stabilizer individually controlled from operator platform.

43. **Dump Body**

Overall dimensions twenty two feet (22') long x eight feet (8') wide.

43.1 **Body Floor**

To be a flat single sheet of 1/4" smooth steel plate, 8 feet wide, and 20 feet long and all seams to be on cross sills and solid welded with radius bulkhead and sides.

43.2 **Bulkhead and Sidewalls**

To be 10 ga. smooth steel plate, 60" high, continuously welded to the floor. Top rails and rub rails to be 3-1/2" structural steel. Continuously welded 5-1/2" sidewall uprights on 32" centers with a continuously welded 5-1/2" center crossmember running the entire length of the sidewalls. 12-1/2" structural channel rear corners.

Bulkhead to be equipped with brackets to hold a shovel, rake and broom with secure tie down straps.

43.3 **Cross Sills**

To be 4" structural I-beam twelve (12) inches on center, gusseted to longsills.

#### **43.4 Long Sills**

To be 6" structural channel gusseted at every other cross sill. Gussets to be continuously welded rather than spot welded.

#### **43.5 Rear Doors**

Single heavy duty end gate 88-1/2" wide by the full height of the body. Heavy duty hinged on passenger side corner member allowing 270 degree swing around to passenger side sidewall. Sidewall and door should be equipped with latching system to secure rear door to sidewall in transit. Heavy duty pin latching system on the driver side corner member and rear door to secure door in closed position while in transit. Must include safety chain on door.

#### **44. Hydraulic Hoist**

A 5 stage, 8" telescopic, front mounted, hydraulic ram must raise the body to a minimum 60 degree dump angle without the rear of the body touching the ground.

44.1 Safety package including body prop, body up lights and warning labels.

#### **45. Wiring and Lighting**

45.1 Wiring is to be for twelve (12) volts and shall be 14 gauge and of high quality.

45.2 All terminals or connectors shall be fully enclosed and impervious to salt, chemicals, and corrosion.

45.3 Exposed wiring and/or terminals and connectors not acceptable.

45.4 Stop light, tail lights, directional lights, and back-up lights shall be mounted at the rearmost section of the body and fully protected from damage.

45.5 All lights and lamps shall be heavy duty, Truck-Lite L. E. D., and shall be shock-proof mounted, and recessed in the outrails to protect them from damage.

45.6 All wiring shall be totally enclosed in tubing and securely fastened to the body.

45.7 Marker lights shall be recess mounted. Truck-Lite L. E. D.

#### **45.8 Warning Lights**

45.8.1 L. E. D. amber heads mounted in the top and bottom of the rear corner posts of the body. 6" oval Star model # LDHEF - 6.

45.8.2 One (1) Star amber strobe model HT 255 shall be mounted on the back of the operators platform. Not to exceed 11' 6" exact position to be determined at pilot inspection.

45.8.3 A separate heavy duty illuminated switch shall be dash mounted to operate both warning lights.

45.9 Wiring

All exposed wiring outside of cab, boom, engine compartments and inside body shall be encased in polyethylene or loom covering, and securely fastened approx. every 18 inches. Circuits and equipment all to be properly protected by accessible circuit breakers.

45.10 Lights and Reflectors

To meet or exceed Federal lighting standard.

45.11 Back-up alarm shall be

Star #60-807A Auto Adjust 87-107 db 12 volt

46. Lubrication

Suitable lubrication devices for the outriggers and boom shall be provided at all points requiring lubrication and each lubrication point shall be easily accessible. Complete lubrication data including the type of lubricant manufacturer's reference number, shall be furnished with the equipment. All grease fittings should be heavy duty screw in and protected from breakage with the use of a guard.

47. Mounting

47.1 Body and related equipment shall be mounted to the chassis and body manufacturer's engineering specifications.

47.3 If it is necessary to move or relocate any vehicle components and/or trim the frame, it shall be the responsibility of the body contractor. Any component relocation and frame trimming shall conform to the chassis manufacturer's specifications.

47.4 Welding to the truck chassis frame will not be acceptable.

47.5 Cutting and/or drilling the truck chassis frame from the point forward of the rearmost spring hanger by means of flame torching will not be acceptable.

47.6 Contractor shall be responsible for the stability of the whole unit.

47.7 The contractor shall be responsible for mounting the body(s) and hoist), on the chassis, so as to give proper weight distribution.

47.8 Conspicuity stripping shall run down the full length of both sides and rear door of the body including ICC bumper . This tape must comply with D. O. T. and NHSTA standards.

47.9 Unit shall be equipped with an under body mount tool box. Heavy duty aluminum 24" H x 24" D 60" L. with fold down door, mounted on the curbside of the vehicle. There shall be a minimum of two supports mounted under the center of the box and attached to the frame.

48. Splash Guards

48.1 Heavy duty, resilient rubber type, rib design, 'Cord Impregnated' (tire cord composition), 24 in. x 30 in., and mounted at the rear of the rear wheels.

48.2 The rear flaps shall be hung from the body with chains.

48.3 Steel sheet splash guards mounted front of the dual rear wheels, constructed of 10 ga. steel, approximately 24 in. x 24 in., with 1 in. flange on each side, installed with 1-1/2 in. flat stock bracing, shall be attached to the dump body or hard plastic type splash guard.

48.4 Splash guards (flaps) shall be devoid of any advertising.

49. CHASSIS INFORMATION

The chassis will be provided by the City of Rochester and has the following equipment.

49.1 2013 International Model 7600 SBA 6x4 20,

49.2 VIN # 1HTGSSJTODJ192763

49.3 Maxxforce 13 410 HP with 38 hours.

49.4 Allison 4500 RDS\_P, six speed with double overdrive.

49.5 Front Axle – Meritor MFS 20-133A, 20,000 lb. capacity.

49.6 Rear Axle – Meritor RT 46-160 single reduction, 46,000 lb. capacity with locking differential.

49.7 PTO – Chelsea Model 891 Series, Electric/Hydraulic

49.8 Pump – Force America Model TXV92-R

49.9 Frame reinforcement outer "C" channel, 120,000 PSI

49.10 Current CT – 182" approx.

49.11 Current Wheel Base – 260" approx.

49.12 Current Cab to end of Frame – 237" approx.

49.13 AT - 55" approx.

- 49.14 It will be solely the contractor's responsibility for lengthening the frame to the right size to accommodate the required Loader and 22' Body.
- 49.15 The splice shall be made by staggering the cuts on the inside and outside rails to insure adequate weld penetration.
- 49.16 A new inside and outside rail piece will be added to accommodate the extension length required with appropriate fishplating.
- 49.17 The integrity of this entire unit will be the responsibility of the bidder and will be guaranteed by the bidder against frame, bending or other defects for the life of the vehicle, provided that the frame has not been abused by the City of Rochester.
- 49.18 Remove and replace cross members, adding new members for the extended sections, with two to three new cross members.
- 49.19 The drive shaft shall have another section added or lengthened, including an additional carrier bearing if required.
- 49.20 The structural strength of the frame, after completion of the work described herein, shall be equal to or greater than the manufacturers original specifications to achieve extended service life when hauling heavy payloads and when operating under sever conditions. The frame lengthening and component relocation shall be in accordance with, and conform to, the chassis manufacturers prescribed procedures and specifications. Drawings with dimensions will be provided with this bid showing the exact frame extension proposal. A second set of drawings and dimensions shall be submitted with the bid to show the exact layout of the loader and dump body on the newly extended frame. These drawings will be submitted to the chassis manufacturer by the City to confirm that the work proposed will not void any chassis warranties. The City reserves the right to reject a bid that is not in compliance with the chassis manufacturers recommendations.
- 49.21 All parts not specifically mentioned which are necessary to provide a complete and operational unit shall be included if not mentioned herein.
- 49.22 After the frame has been extended and before the boom or body is mounted the bidder will make the truck available for inspection by the City. No further work is to be completed until this inspection is carried out.
- 49.23 The following equipment will need to be removed from the City chassis and will become the bidders to offset the cost of the body mounting and frame extension.
- 49.23.1 Stellar Hooklift Model - Slider 65
- 49.23.2 Pioneer Tarp System - HR2000

- 49.23.3 Force America hydraulic system and any hoses, couplings, fittings etc. not usable with the new loader or dump body.
  - 49.23.4 Relocation of any components required to be compatible with the new loader and body, will be the bidders responsibility
  - 49.23.5 Any components that are currently on the chassis that are compatible with the new loader and body, may be saved and reused to lower the bidders overall cost to the City.
  - 49.23.6 To inspect the City chassis contact Gary O'Donnell 585-428-6343.
- 49.24 Current exhaust configuration is horizontally mounted. Any exhaust modifications necessary for proper loader or body assembly mounting must be made by a factory authorized International truck repair facility.

50. Painting

- 50.1 The body, cab, boom and all related equipment shall be painted in accordance to the paint manufacturer's specifications, as specified herein.
- 50.2 The bodies and all the related equipment shall be coated with two (2) primer coats, and then two (2) finish coats, inside and out, top & bottom.
- 50.3 Prior to the application of any coatings, all surfaces shall be thoroughly cleaned and conditioned to the paint manufacturer's specifications, as specified herein.
- 50.4 The primer shall be applied in accordance to the paint manufacturer's specifications, and shall be lead free.
- 50.5 The finish coats shall be DuPont Cronar Enamel or equal #23694 Green. The finish coat material shall be applied in accordance to the paint manufacturer's specifications and will match the cab and chassis in color.
- 50.6 Paints supplied under this contract shall be free of isocyanates, chromates and lead.
- 50.7 Total material thickness, including primer and finish shall be a minimum of 4.0 mils, dry film.
- 50.8 The thickness shall be measured by a suitable gauge approved by the City of Rochester.

51. Miscellaneous

- 51.1 All reflectors shall be stick-on reflectors D. O. T. approved.
- 51.2 All instruments, gauges and switches, shall be identified in a permanent manner, such as permanently secured plastic labels, Mylar decals, or epoxy lettering, tape is not acceptable.

- 51.3 The contractor shall furnish the City a certified weight slip stating the vehicle's unladen weight, all NYS DMV forms for registration and title, and supply the vehicle with a current NYS motor vehicle inspection. This data is to be furnished at time of delivery.
- 51.4 Located on the headboard of the body will be hooks or brackets to accept: A square shovel, a rake, a broom, too be supplied with unit.
- 51.5 Each vehicle must be supplied with a 20 lb. fire extinguisher and D.O.T. reflector kit mounted inside the cab.
- 51.6 Both sides of body to be equipped with outrigger pad holders. Pads shall be supplied.
- 51.7 Cone holders mounted to the frame rails under the body on the street side (see photos).
- 51.8 In all cases the International Multiplex Switch Pack shall be used for lighting and controls.

52. Mobile Radio

52.1 Motorola two-way radio, CDM 1550 LS, and heavy duty microphone with locking kit B81, mounted with external speaker and heavy duty microphone. Mounting and programming to be done by Flower City Communications in Rochester, New York.

52.2 See below for radio transmit frequencies

Channel	Display	RX - Freq	Tx - Freq	Rx - Squelch	Tx - Squelch
1	Special Serv	161.430	161.430	TPL 114.8	TPL 114.8
2	Refuse	156.105	156.105	TPL 114.8	TPL 114.8
3	Water	153.410	153.410	TPL 123.0	TPL 123.0
4	Forest/Parks Rpt	159.390	154.980	TPL 114.8	TPL 114.8
5	Forest/Parks	159.390	159.390	TPL 114.8	TPL 114.8
6	MST/Cemeteries	155.805	155.805	TPL 114.8	TPL 114.8
7	Weather	162.400	Blank	CSQ	
8	MDC 1200 Signaling	Vehicle fleet # (last 4 digits)			Post Tx

P1 = Monitor  
 Scan Not enabled  
 Narrowband all channels

53. Advertising

Except for inconspicuous identification plates, serial number plates, precautionary instruction plates, etc., no name, trade mark, decal or other identification, other than that of the manufacturer, shall be applied to the vehicle. Identification of vehicle and equipment dealers and installers shall not be attached to the vehicle. In any instance of violation of these restrictions, the cost to the City of removal of such advertising will be deducted from contractor's outstanding invoice.

54. Data Plate

Identification plates listing data specifically applicable to the truck body, etc., shall be permanently and inconspicuously installed on the appropriate piece of equipment. Plates shall include at least the model and serial number.

55. Manuals

Manuals shall be provided as follows:

55.1 Two (2) Operator's manual for the boom/body.

55.2 Three (3) Service/overhaul manual covering all servicing, repairing and minor and major overhauling of all boom, hydraulic and control components. Shall include color coded schematics for electrical and hydraulic circuits.

55.3 Three (3) Parts manual for all boom, hydraulic and control components including complete listings by part number and description in addition to exploded views.

55.4 Two (2) Lubrication chart, wall type, approximately 2' x 3', indicating all lubrication points, type of lubricant and the equipment manufacturer's recommended lubrication schedule for the boom.

56. TRAINING

56.1 If requested by the City, the contractor shall provide the services of qualified factory technician(s) for a period of up to two (2) full working days at the City of Rochester's shop to train and instruct City personnel including in-depth diagnostic training. This may be for up to two shifts of City technicians and one (1) day for operators. These services shall be provided at a time so designated by the Fleet Manager of the City of Rochester. The contractor shall be so advised by the Fleet Manager of the City no less than ten (10) days prior thereto.

56.2 The contractor may also be requested to provide a second session at a time so selected by the Fleet Manager of the City to review the results of the instructions, and the functions of the equipment after having been in service. The contractor shall be so advised by the Fleet Manager of the City no less than ten (10) days prior thereto.

56.3 The contractor shall provide operator training materials (e.g. Power Point, DVD) to the City of Rochester *prior* to the delivery of equipment. The training materials shall include complete operational instructions and equipment safety guidelines.

56.4 Bidders shall submit the cost per hour per trainer of the Contractor's or manufacturer's employee who will provide the training as required in Section 56 and optional in Section 23. The City will pay the cost per hour for all training upon prior approval of the City of such cost.

**57. POLITICAL SUBDIVISIONS**

**Bidders should note that other political subdivisions may participate in the contract resulting from this bid award as authorized by General Municipal Law. Use of this contract by any other political subdivision must be coordinated between that subdivision and the contractor. The City will have no responsibility for any such purchases and will have no other role than to provide other political subdivisions a copy of this contract if requested**



PROPOSAL

QUESTIONNAIRE FORM FOR CITY SPECIFICATION

TO BE FILLED IN BY THE BIDDER AND PRESENTED WITH THE BID PROPOSAL

FINAL DIMENSIONS: WHEELBASE \_\_\_\_\_ C.A. \_\_\_\_\_ AF \_\_\_\_\_

CHASSIS WARRANTY COVERAGE IN YRS./MILES/HRS: \_\_\_\_\_

DUMP BODY: Make \_\_\_\_\_ Model \_\_\_\_\_ Year \_\_\_\_\_

Literature Enclosed Yes \_\_\_\_\_ No \_\_\_\_\_

BOOM: Make \_\_\_\_\_ Model \_\_\_\_\_ Year \_\_\_\_\_

Literature Enclosed Yes \_\_\_\_\_ No \_\_\_\_\_

PTO PUMP Make \_\_\_\_\_ Model \_\_\_\_\_

Main Relief Pressure set at \_\_\_\_\_ PSI

HYDRAULIC MOTOR

Make \_\_\_\_\_ Model \_\_\_\_\_

HYDRAULIC FLUID

Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Capacity \_\_\_\_\_

LIGHTING

Manufacturer for Body \_\_\_\_\_

Manufacturer for Warning/Strobes \_\_\_\_\_

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Typed Name and Title of Authorized Signer

\_\_\_\_\_  
Typed Name of Company



# Equipment Information Sheet

*Completion of this form is required*

**Cab & Chassis:** \_\_\_\_\_ Make/Model

**Loader:** \_\_\_\_\_ Make/Model

**Dump Body:** \_\_\_\_\_ Make/Model

**Hydraulic System:** \_\_\_\_\_ Make/Model

**Oil** Type: \_\_\_\_\_ Qty: \_\_\_\_\_

**Capacities:** Gross Vehicle Weight Rating \_\_\_\_\_ lbs.

Unladen Vehicle Weight \_\_\_\_\_ lbs.

Maximum Load Capacity \_\_\_\_\_ lbs.

Maximum Boom Lift Capacity \_\_\_\_\_ lbs.

**Clearance:** Vehicle Height Feet: \_\_\_\_\_ Inches: \_\_\_\_\_

Wheel Base Inches: \_\_\_\_\_

**Speed:** Top "Over the Road" Speed \_\_\_\_\_ mph

**Equipped With:** List relevant equipment features

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\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Typed Name and Title of Authorized Signer

\_\_\_\_\_  
Typed Name of Company

(Continued through Page 30A)



PROPOSAL

PRINT OR TYPE THE FOLLOWING INFORMATION:

\_\_\_\_\_  
Name of Firm or Corporation

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City State Zip Code

\_\_\_\_\_  
Telephone / Cell / Fax No. Federal I.D. #

\_\_\_\_\_  
E-Mail Address Date



ACCEPTED ON BEHALF OF THE CITY OF ROCHESTER FOR:

\_\_\_\_\_

Contract No. \_\_\_\_\_ Contract Term: \_\_\_\_\_

\_\_\_\_\_  
Purchasing Agent

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