

**BID SPECIFICATIONS FOR THREE (3)
33 CU. YD SIDELOADING AUTOMATED
EXPERT (T) WITH 10 FOOT HELPING HAND MOUNTED ON A CHASSIS CAB
WITH DROP FRAME AND WITH SNOW PLOW AND WITH AUTOMATED
CARTS OR EQUIVALENT**

**FOR THE TOWNSHIP OF OCEAN
Monmouth County, New Jersey**

**Bids will be received by the Township Manager of the Township of Ocean
at the Township of Ocean Council Conference Room, Second Floor,
Deal and Monmouth Roads, Oakhurst, NJ on Wednesday, March 10, 2010
at 3:00 p.m. prevailing time.**

Prepared by

Name of Bidder: _____

Address: _____

Phone: _____

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NOTE: THIS PACKET CONTAINS A COMPLETE SET OF INSTRUCTIONS, BIDDING FORMS AND SPECIFICATIONS.

WHEN SUBMITTING A BID YOU MUST RETURN THE COMPLETE PACKET.

LEGAL NOTICE

TOWNSHIP OF OCEAN – COUNTY OF MONMOUTH

TAKE NOTICE that sealed proposals will be received by the **TOWNSHIP MANAGER** of the Township of Ocean in the County of Monmouth, New Jersey for the following:

1. Fifteen (15) Diamond Back 3rd Man Cart Tippers Or Equivalent Capable Of Lifting 65 Or 95 Gallon Universal Carts, To Include Complete Installation Of One (1) Model 450 On A 6 Yd Side Loading Truck, Four (4) Model 600 On Two (2) 25 Yd Rear Loading Packers With Winch And Ten (10) Model 500 On Five (5) Rear Loading Packers To Be Installed At Township Facility
2. Three (3) 33 Cu. Yd. Sideloading Automated Expert (T) With 10 Foot Helping Hand Mounted On A Chassis Cab With Drop Frame And With Snow Plow And With Automated Carts Or Equivalent

as more particularly described in the Bid Specifications and Bid Proposal Forms.

SAID BIDS WILL BE OPENED and read in public by the Township Manager at the Township Council Conference Room, Second Floor, Town Hall, 399 Monmouth Road, Oakhurst, New Jersey, on **WEDNESDAY, MARCH 10, 2010 at 3:00 p.m.** prevailing time.

OBTAINING/EXAMINING BID DOCUMENTS: Bid documents will be on file in the Office of the DEPARTMENT OF PUBLIC WORKS located at 399 Monmouth Road, Oakhurst, New Jersey and may be inspected by prospective bidders during normal business hours.

BID SECURITY: Is required in an amount of not less than ten percent (10%) of the total amount indicated in the Bid, but not in excess of Twenty Thousand Dollars (\$20,000.00); and may for certain equipment, materials and services be accompanied by a Certificate of Surety from a surety company authorized to do business in the State of New Jersey indicating consent to be bound as surety and guarantor for performance required under the contract documents.

SUBMISSION OF BIDS: The completed bid form and other items required shall be placed in sealed envelopes including the name and address of the bidder and the name of the item on the outside, addressed to the Township Manager, Township of Ocean, and delivered prior to bid opening to the Township at the above address for receiving bids.

STATUTORY REQUIREMENTS: Bidders are required to comply with requirements of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27 (Affirmative Action); and P.L. 1963, C. 150 (Prevailing Wage) and must include a Statement of Ownership of 10% or more of the stock of the bidder corporation or partnership pursuant to P.L. 1977, C. 33 of the laws of New Jersey.

REJECTION OF BIDS: The Township Council reserves the right to reject any and all bids or to waive any formalities, where such formality is detrimental to the best interest of the Municipality.

By order of Mayor and Council of the Township of Ocean.

VINCENT BUTTIGLIERI, RMC/CMC
Township Clerk

SECTION A: INSTRUCTION TO BIDDERS AND STATUTORY REQUIREMENTS

I. Submission of Bids

- A. Sealed bids shall be received by the Township of Ocean, hereinafter referred to as "owner" in accordance with public advertisement as required by law, with a copy of said notice being attached hereto and made a part of these specifications.
- B. Sealed bids will be received by the Township Manager, Andrew Brannen, 399 Monmouth Road, Oakhurst, New Jersey 07755 on **Wednesday, March 10, 2010 at 3:00 pm** as stated in the Notice to Bidders, and at such time and place will be publicly opened and read aloud.
- C. The bid shall be submitted in a sealed envelope: (1) addressed to the Township of Ocean, (2) bearing the name and address of the bidder written on the face of the envelope, and (3) clearly marked "BID" with the contract title.
- D. It is the bidder's responsibility that bids are presented to the Township of Ocean at the time and place designated. Bids may be hand delivered or mailed; however, the owner disclaims any responsibility for bids forwarded by regular or overnight mail. If the bid is sent by express mail service, the designation in sub-section C, above, must also appear on the outside of the express mail envelope. Bids received after the designated time and date will be returned unopened.
- E. Sealed bids forwarded to the owner before the time of opening of bids may be withdrawn upon written application of the bidder who shall be required to produce evidence showing that the individual is or represents the principal or principals involved in the bid. Once bids have been opened, they shall remain firm for a period of (60) sixty calendar days.
- F. All prices and amounts must be written in ink or preferably machine-printed. Bids containing any conditions, omissions, unexplained erasure or alterations, items not called for in the bid proposal form, attachment of additive information not required by the specifications, or irregularities of any kind may be rejected by the owner. Any changes, whiteouts, strikeouts, etc, in the bid must be initialed with ink by the person signing the bid.
- G. Each bid proposal form must give the full business address, business phone, Fax, e-mail, (if available) the contact person of the bidder, and be signed by an authorized representative as follows:
- Bids by partnerships must furnish the full name of all partners and must be signed in the partnership name by one of the members of the partnership or by an authorized representative, followed by the signature and designation of the person signing.
 - Bids by corporations must be signed in the legal name of the corporation, followed by the name of State in which incorporated and must contain the signature and designation of the president, secretary or other person authorized to bind the corporation in the matter.

- Bids by sole-proprietorship shall be signed by the proprietor.
 - When requested, satisfactory evidence of the authority of the officer signing shall be furnished.
- H. Bidder should be aware of the following statutes that represent "Truth in Contracting" laws:
- NJSA 2C:21-34, et seq. governs false claims and representations by bidders. It is a serious crime for the bidder to knowingly submit a false claim and/or knowingly make material misrepresentation.
 - NJSA 2C:27-10 provides that a person commits a crime if said person offers a benefit to a public servant for an official act performed or to be performed by public servant, which is a violation of official duty.
 - NJSA 2C:27-11 provides that a bidder commits a crime if said person, directly or indirectly, confers or agrees to confer any benefit not allowed by law to a public servant.
 - Bidder should consult the statutes or legal counsel for further information.

II. BID SECURITY AND BONDING REQUIREMENTS

The following provisions shall be applicable to this bid and be made a part of bid documents:

A. BID GUARANTEE

Bidder shall submit with the bid a certified check, cashiers check or bid bond in the amount of ten percent (10%) of the total price bid, but not in excess of \$20,000, payable unconditionally to the owner. When submitting a Bid Bond, it shall contain Power of Attorney for full amount of Bid Bond from a surety company authorized to do business in the State of New Jersey and acceptable to the owner. The check or bond of the unsuccessful bidder(s) shall be returned pursuant to NJSA 40A:11-24a. The check or bond of the bidder to whom the contract is awarded shall be retained until a contract is executed and the required performance bond or other security is submitted. The check or bond of the successful bidder shall be forfeited if the bidder fails to enter into a contract pursuant to NJSA 40A:11-21.

III. INTERPRETATION AND ADDENDA

- A. The bidder understands and agrees that its bid is submitted on the basis of the specifications prepared by the owner. The bidder accepts the obligation to become familiar with these specifications.
- B. Bidders are expected to examine the specifications and related bid documents with care and observe all their requirements. Ambiguities, errors or omissions noted by bidders should be properly reported in writing to the appropriate official. Any prospective bidder who wishes to challenge a bid specification shall file such challenges in writing with the contracting agent no less than three business days prior to the opening of the bids. Challenges filed after that time shall be considered void and having no impact on the contracting unit or the award of a contract, pursuant to NJSA 40A:11-13. In the event the bidder fails

to notify the owner of such ambiguities, errors or omissions, the bidder shall be bound by the requirements of the specification and the bidder's submitted bid.

- C. No oral interpretation and or clarification of the meaning of the specifications for any goods and services will be made to any bidder. Such request shall be in writing, addressed to the owner's representative stipulated in the specification. In order to be given consideration, a written request must be received at least seven (7) business days prior to the date fixed for the opening of the bid for goods and services.

All interpretations, clarifications and any supplemental instructions will be in the form of written addenda to the specifications, and will be distributed to all prospective bidders. All addenda so issued shall become part of the specification and bid documents, and shall be acknowledged by the bidder in the bid. The owner's interpretations or corrections thereof shall be final.

When issuing addenda, the owner shall provide required notice prior to the official receipt of bids to the person who has submitted a bid or who has received a bid package pursuant to NJSA 40A:11-23c.

D. Discrepancies in Bids

1. If the amount shown in words and its equivalent in figures do not agree, the written words shall be binding. Ditto marks are not considered writing or printing and shall not be used.

2. In the event that there is a discrepancy between the unit prices and the extended totals, the unit prices shall prevail. In the event there is an error of the summation of the extended totals, the computation by the owner of the extended totals shall govern.

IV. INSURANCE AND INDEMNIFICATION

The insurance documents shall include but are not limited to the following coverage's:

A. INSURANCE REQUIREMENTS

1. Worker's Compensation Insurance

Workers Compensation insurance shall be maintained in full force during the life of the contract, covering all employees engaged in performance of the contract pursuant to NJSA 34:15-12 (a) an NJAC 12:235-1.6.

2. General Liability Insurance

General liability insurance shall be provided with limits of not less than \$1,000,000.00 any one person and \$1,000,000.00 any one accident for bodily injury and \$3,000,000.00 aggregate for property damages, and shall be maintained in full force during the life of the contract.

B. CERTIFICATES OF THE REQUIRED INSURANCE

Certificates of Insurance for those policies required above shall be submitted with the contract. Such coverage shall be with an insurance company authorized to do business in the State of New Jersey and shall name the owner as an additional insured.

Self-insured contractors shall submit an affidavit attesting to their self-insured coverage and shall name the owner as an additional insured.

C. INDEMNIFICATION

Bidder shall indemnify and hold harmless the owner from all claims, suits or actions, and damages and costs of every by name and description to which the owner may be subjected or put by reason of injury, the person or property of another, or the property of the owner, resulting from negligent acts or omissions on the part of the contractor, the contractor's agent, servants or subcontractors in the delivery goods and services, or in the performance of the work under the contract.

V PRICING INFORMATION FOR PREPARATION OF BIDS

- A The owner is exempt from any local, state or federal sales, use or excise tax.
- B. Estimated Quantities (Open-End Contracts): The owner has attempted to identify the item (s) and the estimated amounts of each item bid to cover its requirements; however, past experience shows that the amount ordered may be different than that submitted for bidding. The right is reserved to decrease or increase the quantities specified in the specifications pursuant to NJAC 5:30-11.2 and 11.10
NO MINIMUM PURCHASE IS IMPLIED OR GUARANTEED.
- C. Contractor shall be responsible for obtaining any applicable permits or licenses from any government entity that has jurisdiction to require the same. All bids submitted shall have included this cost.

VI STATUTORY AND OTHER REQUIREMENTS

The following are mandatory requirements of this bid and contract.

A. MANDATORY AFFIRMATIVE ACTION CERTIFICATION

No firm may be issued a contract unless it complies with the affirmative action provision of NJSA 10:5-31 et seq. and NJAC 17:27-1 et seq. The following information summarizes the full regulatory text, which is included as Exhibit A of this bid specification.

1. Goods and Services (including professional services) Contracts.

Each contractor shall submit to the public agency, after notification of award but prior to execution of goods and services contract, one of the following three documents:

- i. A photocopy of a valid letter that the contractor is operating under an existing Federally approved sanctioned affirmative action program (good for one year from the date of the letter); or
- ii. A photocopy of a Certificate of Employee Information Report approval, issued in accordance with NJAC 17:27-4; or
- iii. A photocopy of an Employee Information Report (Form AA302) Provided by the Division and distributed to the public agency to be completed by the contractor in accordance with NJAC 17:27-4.

B. AMERICANS WITH DISABILITIES ACT OF 1990

Discrimination on the basis of disability in contracting for the purchase of goods and services is prohibited. Bidders are required to read Americans with Disabilities language that is included as Exhibit A of this specification and agree that the provisions of Title II of the Act are made a part of the contract. The contractor is obligated to comply with the act and to hold the owner harmless.

C. STOCKHOLDER DISCLOSURE

NJSA 52:25-24.2 provides that no corporation or partnership shall be awarded any contract for the performance of any work or the furnishing of any goods and services, unless, prior to the receipt of bid, or accompanying the bid of said corporation or partnership, bidders shall submit a statement setting forth the names and address of all stockholders in the corporation or partnership who owns ten percent or more of its stock of any class, or of all individual partners in the partnership who own ten percent or greater interest therein. The included Statement of Ownership shall be completed and attached to the bid proposal. This requirement applies to all forms of corporations and partnerships, including but not limited to, limited partnerships, limited liability corporations, limited liability partnerships and Subchapter S corporations. Failure to submit a stockholder disclosure document shall result in rejection of the bid.

D. PROOF OF BUSINESS REGISTRATION

NJSA 52:32-44 requires that each bidder (contractor) submit proof of business registration with the bid proposal. Proof of registration shall be a copy of the bidder's Business Registration Certificate (BRC). A BRC is obtained from the New Jersey Division of Revenue. Information on obtaining BRC is available on the Internet at www.nj.gov/njbgs or by phone at (609) 292-1730. NJSA 52:32-33 imposes the following requirements on contracts and all subcontractors that knowingly provide goods or perform service for a contractor fulfilling this contract.

- 1) The contractor shall provide written notice to its subcontractors and suppliers to submit proof of business registration to the contractor;
- 2) Prior to receipt of final payment from a contracting agency, a contractor must submit to the contracting agency an accurate list of all subcontractors or attest that none was used;
- 3) During the term of this contract, the contractor and its affiliates shall collect and remit, and shall notify all subcontractors and their affiliates that they must collect

and remit to the Director, New Jersey Division of Taxation, the use tax due pursuant to the Sales and use Tax act, (NJSA 54:32B-1 et seq.) on all sales of tangible personal property delivered into this State.

A contractor, subcontractor or supplier who fails to provide proof of business registration or provides false business registration information shall be liable to a penalty of \$25 for each day of violation, not to exceed \$50,000 for each business registration not properly provided or maintained under a contract with a contracting agency. Information on the law and its requirements is available by calling (609) 292-9292.

E. NON-COLLUSION AFFIDAVIT

The Affidavit shall be properly executed and submitted with the bid proposal.

VII. METHOD OF CONTRACT AWARD

A. The length of the contract shall be stated in the technical specifications. Pursuant to requirement NJAC 5:30-5.1 et seq., any contract resulting from this bid shall be subject to the availability and appropriation of sufficient funds annually. Please see Section X, Termination of Contract, Sub-section E for additional information.

B. The award will be made based on the LOWEST COMBINED PRICE for all items. The unit prices must be furnished for all items, as indicated on the proposal form.

C. The form of contract shall be submitted by the owner to the successful bidder. Terms of the specifications/bid package prevail. Bidder exceptions must be formally accepted by the owner.

VIII CAUSES FOR REJECTING BIDS

Bids may be rejected for any of the following reasons:

- A All bids pursuant to NJSA 40A:11-13.2;
- B If more than one bid is received from an individual, firm or partnership corporation or association under the same name
- C Multiple bids from an agent representing competing bidders;
- D The bid is inappropriately unbalanced;
- E The bidder is determined to possess, pursuant to NJSA 40A:11-4b Prior Negative Experience .
- F. If the successful bidder fails to enter into a contract within 21 days, except Sundays and holidays or as otherwise agreed upon by the parties to the contract. In this case at its option, the owner may accept the bid of the next lowest responsible bidder.

IX TERMINATION OF CONTRACT

- A. If, through any cause, the contractor shall fail to fulfill in a timely and proper manner obligations under the contract or if the contractor shall violate any of the requirements of the contract, the owner shall there upon have the right to terminate the contract by giving written notice to the contractor of such termination and specifying the effective date of termination. Such termination shall relieve the owner of any obligation for balances to the contract of any sum or sums set forth in the contract. Owner will pay only for goods and services accepted prior to termination.
- B. Notwithstanding the above, the contractor shall not be relieved of liability to the owner for damages sustained by the owner by virtue of any breach of the contract by the contractor and the owner may withhold any payments to the contractor for the purpose of compensation under such time as the exact amount of the damages due the owner from the contractor is determined.
- C. The contractor agrees to indemnify and hold the owner harmless from any liability to subcontractor/suppliers concerning payment for work performed or goods supplied arising out of the lawful termination of the contract by the owner under this provision.
- D. In case of default by the contractor, the owner may procure the goods or services from other sources and hold the contractor responsible for any excess cost.
- E. Continuation of the terms of the contract beyond the fiscal year is contingent on availability of funds in the following year's budget. In the event of unavailability of such funds, the owner reserves the right to cancel the contract.
- F. ACQUISITION, MERGER, SALE AND/OR TRANSFER OF BUSINESS, ETC.

It is understood by all parties that if, during the life of the contract, the contractor disposes of his /her business concern by acquisition, merger, sale or transfer, or by any means convey his/her interest(s) to another party, all obligations are transferee to that new party. In this event, the new owner(s) will be required to submit all documents/legal instruments that were required in the original bid/contract. Any change shall be approved by the Owner.

- G. The contractor will not assign any interest in the contract and shall not transfer any interest in the same without the prior written consent of the owner.
- H. The owner may terminate the contact for convenience by providing 60 calendar days advanced notice to the contractor.

X. PAYMENT

- A. No payment will be made unless duly authorized by the Owner's authorized representative and accompanied by proper documentation.
- B. Payment will be made in accordance with the Owner's policy and procedures.

REQUIREMENTS OF PROSPECTIVE BIDDERS
P.L. 1977 CHAPTER 33

(Ownership Statement of Compliance)

BE IT ENACTED by the Senate and General Assembly of the State of New Jersey:

No corporation or partnership shall be awarded any contract nor shall any agreement be entered into for the performance of any work or the furnishing of any materials or supplies, the cost of which is to be paid with or out of any public funds, by the State or any county, municipality or school district or any subsidiary or agency of the State, or of any county, municipality or school district, or by any authority, board or commission which exercises governmental functions, unless prior to the receipt of the bid of said corporation or accompanying the bid of said corporation or partnership, there is submitted a statement setting forth the names and addresses of all stockholders in the corporation or partnership who own 10% or more of its stock, of any class or of all individual partners in the partnership who own a 10% or greater interest therein, as the case may be. If one or more such stockholders holding 10% or more of that corporation's stock, or the individual partners owning 10% or greater interest in that partnership, as the case may be, shall also be listed. The Disclosure shall be continued until names and addresses of every stockholder owning 10% of the stock of the bidding corporation or 10% of the stock of a corporate stockholder owning 10% of the stock of the bidding corporation or their corporate stockholders are submitted non-corporate stockholder, and individual partner, exceeding the 10% ownership criteria established in this act, have been listed.

This act shall take effect immediately.

Also enclosed herewith is the Ownership Statement of Compliance Form in compliance with Public Law 197

TOWNSHIP OF OCEAN INVITATION TO BID

INVITATION

Vendors are invited to bid on the items listed below in accordance with the Bid Specifications and the standard Township terms and conditions.

GENERAL TERMS

Vendor is to deliver all specified services under the direction of the Department of Public Works, and to assist in placing in service all services, materials and equipment contracted for the township. The Township specifically reserves the right to inspect, at its convenience, all services, materials and equipment delivered and to run what acceptance tests it may deem appropriate.

DELIVER

Services and materials shall be delivered as provided in the detailed requirements.

QUALITY

The Township requires quality service, material and equipment. When delivered, if the service, materials and equipment do not meet the Township quality standards, or where the materials and equipment delivered are incomplete or damaged, the Township reserves the right to refuse delivery and the right to return the unsatisfactory item.

RETURN UNUSED MERCHANDISE

The Township reserves the right to return defective merchandise at the time of its use or inspection.

SPECIFICATION TERMS

All bidders must answer compliance questions in full. If a bidder is basing his/her proposals on services other than what is specified in these bid documents and wishes the services he/she proposes to be considered as "approved equal or deviation" he shall **SUBMIT ON A SEPARATE SHEET**, in the exact format of the Technical specifications contained herein, an item by item description of that which he/she proposes to substitute. Failure to carry out the provisions noted herein may be deemed sufficient reason not to consider the bidder's proposal.

**BID SPECIFICATIONS FOR THREE (3) 33 CU. YD SIDELOADING
AUTOMATED EXPERT (T) WITH 10 FOOT HELPING HAND OR EQUIVALENT
MOUNTED ON A CHASSIS CAB WITH DROP FRAME AND WITH SNOW
PLOW AND AUTOMATED CARTS TO BE DELIVERED AS A COMPLETE
PACKAGE**

Intent:

It is the intent of this specification to describe and govern the purchase of three (3) 33 CU.YD Sideloading Automated Expert (T) with 10 foot Helping Hand or equivalent mounted on a Chassis Cab with Drop Frame and with Snow Plow and Automated Carts to be delivered as a complete package. The complete unit shall be new and of the latest design and be in current production at the time of the submission of the bid. No bid shall be considered unless the vendor submitting the bid can meet the conditions described in the specifications. The referenced model is for example only to depict minimum requirements for the type of equipment described by the Township of Ocean. All standard and optional equipment shall be Original Equipment Manufacturer's items, when available. To assure a standard of quality, the unit shall be manufactured at an ISO-9001 certified factory. **NO EXCEPTIONS.**

Special Instructions:

The bidder must work with the body manufacturer to coordinate a complete package. The delivered units must be "ready to work", thus all required parts must be included. The bidder must coordinate this. This is the bidder's sole responsibility.

General:

The successful bidder shall make available a **complete unit** for inspection and acceptance by the Township of Ocean **prior** to delivery. The pilot unit inspection shall take place at the Township of Ocean, Township Garage, Sunset Avenue, Ocean, New Jersey. During the fabrication period of the unit, the Township of Ocean reserves the right to make interval inspections, as it deems necessary. A prefabrication meeting shall be scheduled by the Township of Ocean after receipt of purchase order.

If a vendor is submitting an alternate to what is referenced in the specifications, his/her proposal **must** be accompanied by descriptive literature, marked to indicate the exact items to be furnished and engineering drawing documentation of the same. **Failure to supply information requested will result in rejection of bid.** The units must meet all current OSHA, ANSI, ASME, ASTM, ASA, NEC, NEMA, National Traffic and Motor Vehicle Safety Acts and any other applicable standards and/or regulations. The Township of Ocean reserves the right to request certification indicating the units bid have been certified and tested to meet these requirements, with proper documents attesting to said certification. The Township of Ocean shall take into consideration past performance of manufacturer's equipment during bid evaluation.

The Township of Ocean shall, at its discretion, require qualified bidder or bidders to demonstrate equipment bid, at a site designated by the Township of Ocean within two (2) weeks after receipt of said request. **Failure to demonstrate equipment, if requested, will result in bidder being rejected.**

The Township of Ocean shall, at its discretion, require qualified bidder or bidders to submit a list of references who have purchased similar make/models being offered to the Township of Ocean. Failure to supply list of references, if requested, will result in bidder being rejected.

Facilities:

Bidders shall represent a manufacturer, which has in operation a factory adequate for the manufacture of the equipment, which it proposes to furnish. The manufacture(s) whose associated equipment or products are bid, shall have a full service warranty and parts supply facility, located within a reasonable distance of the Township of Ocean, Township Garage, Sunset Avenue, Ocean, New Jersey. This facility will be required to establish an in-house warranty program and provide all warranty work related to the equipment

in the bid. The bidder shall submit the location, names and telephone numbers of people who are authorized to service the equipment or can be reached for emergency service.

Location: _____

Phone No: _____ Contact: _____
(Name & Title)

Manufacturer's Production Sheet:

The successful vendor shall furnish one (1) copy of the actual Factory Production Sheet, for each unit furnished. The copies of the Production Sheet shall be submitted at the time of the Township of Ocean inspection of unit.

General Instructions:

No Dealer advertisements shall appear on the unit and manufacturer's logo, decals, and/or advertisements shall be approved by the Township of Ocean prior to installation; **NO EXCEPTIONS.**

Brake linings shall be non-asbestos. The vendor awarded the contract is required to furnish certification, in writing, that the brakes **do not contain asbestos.** The certification shall be furnished to the Township of Ocean inspector, at the time of inspection of the unit for delivery condition and compliance with specifications.

Errors and Omissions:

Inadvertent omissions and/or errors, which may require changes in the attached specifications must be brought to the attention of the Township of Ocean Director of Public Works and Township Manager three (3) business days **BEFORE** bid submission date. All questions shall be answered in writing, to all prospective bidders by addendum. Verbal responses shall not be binding.

Following the award, should successful vendor discover any errors or omissions in the work undertaken and executed by him, he shall immediately notify the Director of Public Works and Township Manager, who shall promptly verify the same. If, with the knowledge of such error or omission and prior to the correction thereof, the bidder proceeds with any work affected thereby, he shall do so at his own risk. The work done shall not be considered as work done under and in performance of this agreement, unless and until approved and accepted in writing, by the Director of Public Works and Township Manager.

It is the responsibility of the furnishing vendor to deliver a complete, operative and efficiently functioning unit.

Specifications Deviations or Substitution:

These specifications are not intended to be restrictive, but are meant to describe the type of unit required for use by the Township of Ocean. **Bidders are warned, however, that failure to carry out the provisions noted herein will be deemed sufficient reason to reject a bid.**

Further, these specifications address the minimum performance requirements of the Township of Ocean. The Township of Ocean will consider alternate products, provided that they meet these minimum performance requirements.

(If bidder is basing his proposal on equipment other than what is specified and wishes the equipment he proposes to be considered as an "Approved Equivalent", he shall submit on a separate sheet in the exact format of the specifications contained herein, an item description, including the make, model and manufacture's name of that which he proposes to substitute. For purposes of comparison, include only those items on each sheet as given in these specifications.

Such bidder shall also include, but not as a substitute for the above, manufacturer's literature and specifications).

It shall be the bidder's responsibility to carefully examine each item of the specification. Failure to offer a completed bid or failure to respond to each section of the technical specification (COMPLY; YES NO) will cause the proposal to be rejected without review as "non-responsive". All variances, exceptions and/or deviations shall be fully described in the appropriate section. Deceit in responding to the specifications will be cause for rejection.

It shall further be the responsibility of the bidder when offering an alternate, to furnish proof via manufacturer's drawings, blueprints, certifications, etc., that such is equal or superior to the units specified. **Failure to submit the description or deviations as listed above, will mean the bidder intends to supply the particular item as designated in the specifications and the Township of Ocean will so demand. No substitution will be permitted after receipt of the bids.**

EXCEPTIONS:

All standard and optional equipment listed shall be Original Equipment Manufacture's items when available. **NO EXCEPTION.**

(X)

**BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.
IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.**

It is the intent of these specifications to describe the minimum requirements for a automated body of the side loading design. The capacity of the body described shall meet the minimum specifications that follow. All bidders shall attach a statement that the unit offered meets exactly, or the successful bidder shall supply features, which are regularly furnished as standard with this unit. The body shall conform in strength, quality of the bidder shall represent by his bid that all equipment is new and unused. It is required that the unit, as specified herein, shall be completely assembled, painted and ready for operation.

1 – Body Capacity

YES NO OFFERED

The body has a rounded shape enhancing resistance to deformation, durability and better legal payload.

The body capacity, excluding the receiving hopper is:

27 cu. yd

The hopper has a capacity of:

4 cu. yd

The tailgate has a capacity of:

6 cu. yd

2 – Body Dimensions

Body is curved, taper and adapted to manual, semi-automated and automated garbage collection.

Overall body length, including hopper and tailgate is:

307 in.

Overall body height above frame is:

101 in.

Overall body width is:

96 in.

Inside body width at front is:

78 in.

Inside body width at rear is:

87.5 in

		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
Width tapering is:	9.5 in.	_____	_____	_____
Inside body height at front is:	89 in.	_____	_____	_____
<u>2 – Body Dimensions cont'd</u>				
Inside body height at rear is:	92.5 in.	_____	_____	_____
Height tapering is:	3.5 in.	_____	_____	_____
<u>3 –Body Floor Construction</u>				
An abrasion resistant slope floor is taper and the slope angle is:	21 deg.	_____	_____	_____
Slope floor steel grade is:	AR-425	_____	_____	_____
Slope floor thickness is:	¼ in	_____	_____	_____
Slope floor yield strength is:	190,000 PSI	_____	_____	_____
Slope floor wear plate steel grade is:	AR-500	_____	_____	_____
Slope floor wear plate thickness is:	1/4 in	_____	_____	_____
Slope floor wear plate yield strength is:	200,000 PSI	_____	_____	_____
Body floor is curved avoiding material fall back on the hopper				
Floor abrasion resistant steel grade is:	A-572 GR50	_____	_____	_____
Body floor thickness is:	3/16 in.	_____	_____	_____
Body floor yield strength is:	50,000 PSI	_____	_____	_____
Long sills are made from:	HSS Tubing	_____	_____	_____
Long sills dimension is:	6x2x3/8 in.	_____	_____	_____
Long sills steel grad is:	A-500 C Grade	_____	_____	_____
Long sills yield strength is:	50,000 PSI	_____	_____	_____
Number of sills under floor is:	2	_____	_____	_____
<u>4 –Body Side Walls Construction</u>				
The side walls is rounded improving resistance & featuring lightness				
Lower body side walls steel grade is:	A-715 GR 80	_____	_____	_____
Lower body side walls thickness is:	10 ga.	_____	_____	_____
Lower body side walls yield strength is:	80,000 PSI	_____	_____	_____
Upper body side walls steel grade is:	A-715 GR 80	_____	_____	_____
Upper body side walls thickness is:	12 ga	_____	_____	_____
Upper body side walls strength is:	80,000 PSI	_____	_____	_____
Upper wall design is rounded to improve the response to compression and bending stresses when body is full.				
<u>5 –Body Roof Construction</u>				
Body roof is rounded and made of high yield steel ensuring strength when material is packing against it				
Roof structural channel steel grade is:	A-715 GR 80	_____	_____	_____

		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
Roof thickness is:	12 ga	_____	_____	_____
Roof yield strength is:	80,000 PSI	_____	_____	_____
<u>6 – Hopper Dimensions and Construction</u>				
A large hopper offers a volume of not less than:	4 cu. yd.	_____	_____	_____
Hopper depth is:	18 in.	_____	_____	_____
Hopper width is:	72 in.	_____	_____	_____
Hopper length is:	60 in	_____	_____	_____
Hopper height, at front from bottom to canopy is:	105.5 in.	_____	_____	_____
Hopper height at rear from bottom to canopy is:	107 in.	_____	_____	_____
Hopper floor steel grade is:	S-107	_____	_____	_____
Hopper floor thickness is:	3/16 in.	_____	_____	_____
Hopper floor yield strength is:	65,000 PSI	_____	_____	_____
Hopper floor wear plate steel grade is:	AR-500	_____	_____	_____
Hopper floor wear plate thickness is:	¼ in.	_____	_____	_____
Hopper floor wear plate yield strength is:	200,000 PSI	_____	_____	_____
Side abrasion resistant steel grade is:	S-107	_____	_____	_____
Hopper side walls thickness is:	3/16	_____	_____	_____
Hopper side walls yield strength is:	65,000	_____	_____	_____
Two body windows of expanded metal are installed in front of body wall to indicate when body is full.		_____	_____	_____
Body window dimensions are:	8x8 in.	_____	_____	_____
Maximum loading height above chassis frame is:	5.5 in.	_____	_____	_____
Canopy steel grade is:	A-569	_____	_____	_____
Canopy steel thickness is:	14 ga.	_____	_____	_____
Body front wall lower section steel grade is:	A-572 GR 50	_____	_____	_____
Steel thickness of body front wall lower section is:	3/16 in.	_____	_____	_____
Body front wall upper section steel grade is:	A-715 GR 80	_____	_____	_____
Steel thickness of body front wall upper section is:	12 ga.	_____	_____	_____
Hopper front wall steel grade is:	A-569	_____	_____	_____
Steel thickness of hopper front wall is:	14 ga.	_____	_____	_____
Right-hand side sump box capacity is:	8 gal.	_____	_____	_____
Left-hand side sump box capacity is:	12 gal.	_____	_____	_____
Sump boxes doors dimensions are:	18x22.5 in.	_____	_____	_____
Sealed level above sump box floor is:	17 in.	_____	_____	_____
Floating panels steel grade is:	S-107	_____	_____	_____
Floating panels thickness is:	3/16 ga.	_____	_____	_____
Floating panels yield strength is:	65,000 PSI	_____	_____	_____
Floating panels dimensions are:	35-5/8x63-7/8 in.	_____	_____	_____

		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
Breaker bar steel grade is:	A-500 Grade C	_____	_____	_____
Breaker bar thickness is:	3/8 in.	_____	_____	_____
Breaker bar yield strength is:	50,000 PSI	_____	_____	_____
Breaker bar dimensions are:	06x71 in.	_____	_____	_____
<u>6 – Hopper Dimensions and Construction cont'd</u>				
Length from packer face to breaker bar is:	40-5/8 in.	_____	_____	_____

7 – Hopper Doors

Hopper loading area is completely enclosed with a right and left hand side doors.

Doors are held open or close with locks and wear pillow.

Left hopper door dimension is:	71x73 in.	_____	_____	_____
Right hopper door dimension is:	71x73 in.	_____	_____	_____
Hopper door steel is:	A-569	_____	_____	_____
Hopper door steel thickness is:	14 ga.	_____	_____	_____
Roll carts volume that the opening can accept is:	290 gal.	_____	_____	_____

8-Rear Tailgate

The tailgate is hydraulically operated, bustle type complete with automatic hydraulic leak mechanism, ensuring resistance when material is packing against it.

A safety pin is provided to hold the lock mechanism to prevent an accidental opening.

Tailgate steel grade is:	A-715 GR 80	_____	_____	_____
Tailgate skin thickness is:	12 ga.	_____	_____	_____
Tailgate yield strength is:	80,000 PSI	_____	_____	_____
Tailgate hinge pin steel is:	Casting steel 8630	_____	_____	_____
Tailgate hinge pin surface treatment is:	Melonite QPQ	_____	_____	_____
Tailgate hinge pins diameter is:	1-1/4 in.	_____	_____	_____
The number of cylinders operating the tailgate is:	2	_____	_____	_____
Tailgate cylinder bore diameter is:	2-1/2 in.	_____	_____	_____
Tailgate cylinder rod diameter is:	1-3/4 in.	_____	_____	_____
Tailgate cylinder rod surface treatment is:	Chrome-plated	_____	_____	_____
Tailgate cylinder stroke is:	39 in.	_____	_____	_____
Tailgate cycle time at idle is:	39 sec.	_____	_____	_____
Rubber seal is installed to prevent liquid leakage and banging on back of body, on whole width of the bottom and each side to a height of:	30 in.	_____	_____	_____
Manual control valve in cab is installed with safety lock to prevent accidental activation.		_____	_____	_____

A light and audible alarm in cab are provided to indicate when tailgate is unlocked

Tailgate safety prop is provided and assure an opening of: 24 in.

Tailgate hydraulic line is equipped with flow restrictor to prevent sudden descent.

The tailgate opening angle is not less than (above horizontal): 45 deg.

8-Rear Tailgate cont'd

Tailgate length: 48 in.

Tailgate top frame steel is: S-107

Tailgate top frame thickness is: 3/16 in.

Tailgate bottom frame steel is: 50 W

Tailgate bottom frame thickness is: ¼ in.

Tailgate side frame steel is: S-107

Tailgate side frame thickness is: 3/16 in.

9 – Packer

The packer is built so that packing area produce a pressure on garbage of: 60 PSI

The packer is guided by 2 rails on which wear plates are welded.

Rail wear plates steel grade is: AR-500

Rail wear plates thickness is: ¼ in.

Rail wear plates yield strength is: 200,000 PSI

Rail dimensions are: 3-1/2x2-3/16 in.

Packer underside wear shoes steel grade is: AR-425

Packer underside wear shoes thickness is: 3/8 in.

Packer underside wear plates yield strength is: 190,000 PSI

Packer topside wear shoes steel grade is: AR-425

Packer topside wear shoes thickness is: ½ in.

Packer topside wear plates yield strength is: 190,000 PSI

Packer is operated by 2 double-acting cylinders.

Packer cylinders rod are: Chrome-plated

Cylinder bore diameter is: 4 in.

Cylinder rod diameter is: 2-1/2 in.

Cylinders force is: 75,400 lbf

Packer force on garbage (lbf) is: 67,400 lbf

Maximum compaction of refuse is: 850 lbs/cu. yd.

Cylinder stroke is: 40 in.

Inside width of packing ram is: 72 in.

Inside height of packing ram is: 18 in.

		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
Packing ram stroke is:	52 in.	_____	_____	_____
Packing ram top steel grade is:	S-107	_____	_____	_____
Packing ram top thickness is:	¼ in.	_____	_____	_____
Packing ram top yield strength is:	65,000 PSI	_____	_____	_____
Packing face plate steel grade is:	S-107	_____	_____	_____
Packing face plate thickness is:	¼ in.	_____	_____	_____
Packing face plate yield strength is:	65,000 PSI	_____	_____	_____
<u>9 – Packer cont'd</u>				
Packing ram swept volume is:	1.44 cu. yd.	_____	_____	_____
Penetration of the ram into body is:	12 in.	_____	_____	_____
Packer ram cycle time is:	12 sec. @ 1200 RPM	_____	_____	_____
The packer is unitized, integral with body.				
Packer is reinforced with a combination of structural members for maximum rigidity.				
The electric buttons drive an air actuator to power the packer hydraulic valve.				
Packer controls consist of start, retract, emergency stop and engine speed-up (High Idle)				
Emergency red button is provided to stop packer ram movement at any time.				
One complete set of packer controls located on R.H. side is provided.				
Accelerator switch is located in cab.				
Control buttons are heavy duty, industrial type, color coded, corrosion proof and weather resistant.				
Packing length (including following panels) is:	55 in.	_____	_____	_____
Packer control red button diameter is:	3 in.	_____	_____	_____
Packer control other buttons diameter is:	1.5 in.	_____	_____	_____
Packer cylinder pins steel is:	Casting steel 8630	_____	_____	_____
Packer cylinder pins surface treatment is:	Melonite QPQ	_____	_____	_____
Packer cylinder pins diameter is:	1-3/4 in.	_____	_____	_____
Packer cylinder pins are easily greasable by sump doors.				
Following panel steel grade is:	S-107	_____	_____	_____
Following panel thickness is:	3/16 in.	_____	_____	_____
Following panel yield strength is:	65000 PSI	_____	_____	_____
Following panel dimensions are:	35-5/8x63-7/8 in.	_____	_____	_____
<u>10 – Crusher Panel</u>				
A crusher panel is installed on the front wall of the body to optimize the compaction of the material and to facilitate the transfer into the body				
Crusher panel steel grade is:	A-715 GR 80	_____	_____	_____
Crusher panel thickness is:	10 ga.	_____	_____	_____
Crusher panel yield strength is:	80,000 PSI	_____	_____	_____
Crusher panel dimensions are:	51x46 in.	_____	_____	_____

		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
Crusher panel is operated by 1 cylinder.		_____	_____	_____
Crusher panel cylinder rod is:	Chrome-plated	_____	_____	_____
Crusher panel cylinder bore diameter is:	2 in.	_____	_____	_____
Crusher panel cylinder rod diameter is:	1-1/2 in.	_____	_____	_____
Crusher panel cylinder stroke is:	14-1/2 in.	_____	_____	_____
Two rubber strips 6" wide is attached to crusher panel.		_____	_____	_____
Hydraulic protection is supplied to prevent packing on top of the ram.		_____	_____	_____
Crusher panel cylinder pins steel is:	Cold-roll stressproof	_____	_____	_____

10 – Crusher Panel cont'd

Crusher panel cylinder pins surface treatment is:	Melonite PQP	_____	_____	_____
Crusher panel cylinder pins diameter is:	1 in.	_____	_____	_____
Crusher panel cycle time is:	5 sec.	_____	_____	_____
Additional controls in cab for crusher panel:		_____	_____	_____

11 – Hydraulic System

The hydraulic system is designed to ensure easy maintenance.		_____	_____	_____
The hydraulic pressure line is made up of a Denison relief valve R5P; including vent valve VV01 with a 12 volts DC in line mounted solenoid which divert the flow back to tank when pump is not engaged, and a flow control which divert the excess flow back to tank over 45 gpm.		_____	_____	_____
The standard vane pump deliver to all systems:	38 gpm @ 1200 RPM	_____	_____	_____
The optional dual vane pump is front mounted and deliver to arm:	13 gpm @ 700 RPM	_____	_____	_____
The optional dual vane pump deliver to others systems:	20 gpm @ 700 RPM	_____	_____	_____
ARM working pressure (Relief valve adjustment) is:	3000 PSI	_____	_____	_____
System working pressure (Relief valve adjustment) is:	3000 PSI	_____	_____	_____
Reservoir capacity for conventional cab is:	65 gal.	_____	_____	_____
Reservoir capacity for cab over is:	71 gal.	_____	_____	_____
Maximum quantity of oil in hydraulic reservoir for conventional cab is:	52 gal.	_____	_____	_____
Maximum quantity of oil in hydraulic saddle tank is:	57 gal.	_____	_____	_____
The hydraulic reservoir is equipped with magnetic drain plug, oil level sight gauge and shut-off valves in suction line and check valve on return.		_____	_____	_____
The return line filter capacity is:	150 gpm	_____	_____	_____
Nominal filtration rating is:	7 micron	_____	_____	_____
The suction line strainer capacity is:	100 gpm	_____	_____	_____
Suction line strainer size is:	100 mesh	_____	_____	_____
Beta filtration ratio per ISO 16889 is:	200	_____	_____	_____
The return line filter is located in tank.		_____	_____	_____
The return line filter have a derivation valve and a differential pressure indicator.		_____	_____	_____
The return line filter derivation valve cracking pressure is:	25 PSI	_____	_____	_____
Reservoir has an inspection and clean out cover.		_____	_____	_____

		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
The hydraulic tank is pressurized for conventional cab.		_____	_____	_____
The hydraulic tank for cab over vent is:	10 um	_____	_____	_____
Fourth braided wire hoses are used on the pressure side and all other hoses are double braided wire; high burst capacity and reinforced with nylon wrap to prevent chafing.		_____	_____	_____
Hydraulic tubing is extensively used where flexibility is not needed.		_____	_____	_____
All pipes are zinc coated to prevent corrosion.		_____	_____	_____
All hydraulic tubing is securely clamped to prevent vibration, abrasion and excessive noise.		_____	_____	_____
All hydraulic hoses conform to S.A.E. standards for designed pressure.		_____	_____	_____
<u>11 – Hydraulic System cont'd</u>				
Bends are not less than recommended by S.A.E. standards.		_____	_____	_____
Hydraulic system operates at an acceptable temperature without the need for external hydraulic oil cooling devices.		_____	_____	_____
Quick disconnect fittings are provided so that a pressure gauge can easily be connected without the use of tools or the need to remove hydraulic fittings.		_____	_____	_____
High flex hydraulic hoses are used at hinge point.		_____	_____	_____
Hydraulic tank is baffled.		_____	_____	_____
Hydraulic pump driving shaft is:	HD spicer (1310)	_____	_____	_____
<u>12 – Body lifting mechanism</u>				
The hoist cylinder is centrally front mounted with outer cover and bottom lifting for greater stability of the tipped body		_____	_____	_____
Body is raised by one single acting front mounted telescopic cylinder with:	4 sections	_____	_____	_____
Telescopic cylinder rods surface treatment is:	Nitrated	_____	_____	_____
Cylinder stroke is:	180 in.	_____	_____	_____
Lifting capacity is:	99550 lbs.	_____	_____	_____
Body cylinder bore diameter is:	6 ½ in.	_____	_____	_____
Body dump angle is:	46.5 deg.	_____	_____	_____
Body lifting cycle time is:	70 sec. @ 850 RPM	_____	_____	_____
The air joystick with safety lock is installed in cab.		_____	_____	_____
A light and audible alarm in cab are provided to indicate when body is raised and are activated until it is not completely down.		_____	_____	_____
Safety prop is supplied to support the empty body in the raised position for safe maintenance.		_____	_____	_____
<u>13 – Electrical System</u>				
All stop, directional, tail, backup and clearance lights are LED lights, recessed mount and watertight or equivalent.		_____	_____	_____
Mid-body turn signals is standard equipment.		_____	_____	_____

	<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
All lights are provided following CMVSS and FMVSS #108	_____	_____	_____
Rear lights are integrated in lower lightbox.	_____	_____	_____
Back-up alarm is provided.	_____	_____	_____
Limit switches are heavy duty, industrial type, water tight with adjustable arm and overtravel top prevent damage.	_____	_____	_____
Wire is color coded and numbered.	_____	_____	_____
Circuit breakers are manually resettable in Labrie console.	_____	_____	_____
Wiring conforms to: SAEJ1128	_____	_____	_____
Electrical splices are welded and covered with shrinking tube, in certain places, splices are set and covered with a shrinking tube with epoxy sealant.	_____	_____	_____
<u>13 – Electrical System cont'd</u>			
All electrical wires are covered by a plastic shield.	_____	_____	_____
<u>14 – Accessories</u>			
Steel mud guards are supplied in front of rear axle.	_____	_____	_____
Rubber mud guards with chain are supplied behind rear axle.	_____	_____	_____
If pump is front mounted, steel guards is fixed on the front bumper.	_____	_____	_____
An adjustable multi-cycle control system for the packing ram shall be included to permit optimal utilization of the compaction function.	_____	_____	_____
Controls for operating the compaction ram shall be located in the cab.	_____	_____	_____
Joy stick controller for the automated are shall be movable to allow operation from either drivers position.	_____	_____	_____
Dual flashing amber safety lights shall be incorporated into the tailgate.	_____	_____	_____
Work lights shall be provided for the canopy and hopper and one to be furnished on rear of truck to operate only when truck is in reverse.	_____	_____	_____
Street side loading door shall be a “Dutch” door configuration to provide increased hopper capacity during automated operation.	_____	_____	_____
The truck shall be equipped with an automatic rear vision camera with in cab color monitor the camera system shall be activated when the transmission is shifted into reverse or when manually selected. A second camera shall be located so as to allow the driver to observe the loading hopper and the street area outside the hopper. A third camera will be mounted in body so driver can observe the packer blade area. Both functions too should be activated when the transmission is shifted into reverse or manually sleeved by the driver. Triple camera system, 3 rd eye arm.	_____	_____	_____
(2) LED Strobes recessed on rear of body light bar and front of body bulk head.	_____	_____	_____
Automatic lube system arm only.	_____	_____	_____
Broom and shovel kit included installation.	_____	_____	_____
Anti-sail bars on rear mud flaps.	_____	_____	_____
Long reach arm extension (3’ extension) 120 in. total arm length	_____	_____	_____
ONLY One (1) peanut diagnostic tool must be furnished with each order SERV00222 or equal.	_____	_____	_____
Any additional will be optional.	_____	_____	_____

YES NO OFFERED

ONLY One (1) automated arm joystick must be furnished for stock #PNJ00975-002 or equal with each order. _____

Special additional side view mirror must be furnished #CIM00727 (fish eye mirror). _____

The compactor ram cycle shall be automatically activated by opening the cart grabber mechanism. _____

15-Painting

The truck is properly cleaned of all dirt and grease. _____

Body and hopper are steel gritblasted. _____

One coat (0.002") of urethane primer (DuPont) is applied _____

The finish coat (0.002") of urethane paint is: IMRON ELITE (DuPont) _____

15-Painting cont'd

Rust protection is applied in body cavity. _____

Most bolt-on parts are powder gray painted. _____

Body to be painted WHITE _____

Lettering will be determined by the Township. _____

16-Manuals

Parts, service and operator's manuals are supplied. _____

Body manufacturer will provide 1 week of training for Township operators and additional 8 hours training for Township mechanics. _____

17-Lubrication

All body hinges, cylinder rod ends, cylinder base trunnions and pivot points are supplied with grease fittings. _____

All packer grease fittings are easily accessible. _____

A grease chart is supplies. _____

Hopper and sump door hinges are greaseless. _____

18-Warranty

Length of warranty on parts and labor is not less than: 1 year _____

Length of warranty on body hydraulic cylinders, hoses and pump is not less than: 1 year _____

Body dealer must have a servicing facility for a minimum of 5 years. NO exceptions. _____

Drop frame to be warranted by BODY manufacture To be Free from defects for a period of EIGHT (8) Years after delivery NO EXCEPTION _____

19-Certification

The body manufacturer is certified ISO 9001. _____

Body dealer must have a NJ business Registration, out of state dealers are not acceptable.

All internal inspection documents such as intermediate inspection booklets made at the body manufacturer are available and filed for every vehicle.

Manufacturer and welders are certified by the Canadian Welding Bureau (CWB) and conforms to the standards:

CSA-W47.1

Welding procedure and materials are certified by the Canadian Welding Bureau (CWB) and conforms to the standards:

CSA-W59

If bidder is bidding on an alternate to the specifications, the bidder must furnish a demonstrator for five (5) working days at no additional cost.

Body dealer is not responsible for any chassis programming and if truck is damaged in transit it is the truck dealer's responsibility to submit claim timely.

20-Controls and Button Characteristics

Tailgate control is:

Pneumatic

Tailgate control is equipped with safety lock.

Body lifting control is:

Pneumatic

Body lifting control is equipped with safety lock.

Pump activation control is:

Electric

Packer control is:

Electric

Crusher panel is:

Hydraulic

21-Noise Level

Noise level at idle speed at 20':

72 dBA

Noise level at 1100 RPM at 20':

74 dBA

Noise level with packer activation at 20':

76 dBA

Noise level inside cab of international 7400 at 1100 RPM 83dBA@1100RPM

22-Cart Lifting Mechanism "Helping Hand"

Cart lifting mechanism is hydraulically operated and activated by a joystick in the cab.

If dual arm is installed, a manual switch activates the left or right cart lifting mechanism.

Minimum bin size accepted by lifting mechanism is:

32 gal.

Maximum bin size accepted by lifting mechanism is:

95 gal.

Maximum lifting capacity at maximum reach is:

400 lbs.

Vertical dump height is:

89 in.

Maximum horizontal reach from side of vehicle is:

120 in.

YES NO OFFERED

Minimum horizontal reach from side of vehicle is:	0 in.	_____	_____	_____
Lifting mechanism cycle time at minimum reach is:	8 sec.	_____	_____	_____
Lifting mechanism cycle time at maximum reach is:	18 sec.	_____	_____	_____
Unit weight without grab and oil but including valve is:	1,260 lbs.	_____	_____	_____
Flow to Helping Hand from the flow control is:	20 gpm@700RPM	_____	_____	_____
Maximum operating pressure is:	2,000 PSI	_____	_____	_____
The length of warranty on the automated arm and its cylinders is:	1 year	_____	_____	_____

23-Optional Equipment to be considered

Additional peanut diagnostic tool SERV00222 or equal. \$ _____ each

Additional automated arm joystick #PNJ00975-02 or equal. \$ _____ each

24-Drop Frame

Initial frame shall be made of high strength steel _____

Section Modulus of the initial frame shall be 29.84 cu.in. _____

Resistant Bending Moment (RBM) of the initial frame shall be 3 ,580, 800 lbf.in. _____

Yield Strength of the initial frame shall be 120,000 PSI _____

Drop frame shall be made by body Manufacturer _____

Parts welded to the initial frame to form the drop shall be made from steel 50W. _____

With the set up of the drop frame, RBM and section modulus exceeds the ones of the initial frame. _____

Minimum of 5 cross-members are required (excluding suspension cross members) _____

Driveshaft length will be modified after the drop and alignment will be done per Transmission specifications. _____

If the wheelbase is to be modified, our standard is to use Huck bolts for the suspension brackets on frame. _____

25-Snow Plow

The hydraulic provision will consist of a load sense hydraulic line and of a second Danfoss PVG32 on/off control valve with 2 sections for up/down and left/right operation of the snow plow (the first Danfoss PVG32 is on the arm) The second Danfoss PVG32 control valve will be installed at the front of the truck. _____

An electrical mini-joystick will be installed on the main console for The control of the Snow Plow and the electrical Harness from the Mini joystick to the second Danfoss PVG32 will be installed by the Body _____

YES NO OFFERED

26- Manufacturer.

The Snow Plow Installation and hydraulic connections will be done by the Snow Plow installer.

Body manufacturer needs to provide the hydraulic provision for a Snow Plow installation.

27-Title and Registration

Successful bidder will be Authorized DEALER for the Chassis to be provided. "No Exception" Successful bidder to have New Jersey State Diesel Emissions test performed by a licensed New Jersey Diesel Emissions Center. All proper documents and sticker to be with vehicle when delivered.

28-Delivery

Delivery to be within **180** days maximum. The delivered units must be ready to work, thus all required parts must be included. This is the bidder's sole responsibility.

29-Delivery Responsibility

Delivery of the refuse trucks and universal containers shall be completed within 180 calendar days after the award of contract. All pricing shall be net and shall include delivery of the new refuse trucks and universal containers per Purchaser's instructions. All transportation and delivery charges must be prepaid by Bidder.

30-Assembly and Curbside Delivery

Complete assembly and curbside delivery of carts shall be furnished. Carts shall be placed in a location at the residence that will maximize the efficiency of collection with the automated system.

The Township shall be furnished with hand-outs for residents with instructions and a hard copy and a disc copy prepared on a Spreadsheet program of the address and locations as to where the containers are delivered.

2011 Mack Model LEU613 6-Wheel Truck or equivalent

CHASSIS	COMPLIES	YES	NO
Base Model LEU613 6-Wheel Truck			
Dual drive sit down model			
Frame Rails: 13.375" x 3.25" x .375" Steel. Section Modulus 23.49cu/RBM 2,818,800 in lbs per rail			
Wheelbase 246" 255" CA			
Platform 341" 111 80" Used with 255" WB			
Frame Reinforcement Inside ¼" Steel Channel Reinforcement			
ENGINE/TRANSMISSION	COMPLIES	YES	NO

Mack MP7-325M 325HP@1500-1900 RPM 1200 lb ft max Torque @ 1100-1300 RPM or equivalent		
6 Speed automatic Allison 4500-6 Rugged duty series Gen 4 Includes direct mount oil cooler, external oil cooler, internal filter and oil level sensor		
ENGINE EQUIPMENT	COMPLIES	YES NO
Air Compressor, meritor 18.1 CFM		
Air cleaner, 15" diameter behind cab w/snorkel. Single element Dry type		
Alternator, Delco 12V 145A		
Batteries, 3 Mack 12V 1000-3000 CCA threaded stud or equivalent		
Texaco Long Life Engine Coolant with nitrates to - 34 degrees		
Spin on canister With chemical for use with Texaco extended life coolant only no exception		
Cooling performance without auxiliary cooling		
DPF Regeneration control, Auto in motion, Manual stationary, Manual inhibit & auto stationary w/PTO engaged		
Engine Brake, Mack Power leash or equivalent		
Engine Block Heater, 120V 1500 Watt		
Engine Hoses and Tubing, Silicone		
Exhaust, DPF, Outboard, Single Vertical Stack Plain End, Side Outlet Diffuser		
Fan Drive, Behr Fan and electronic modulating fan drive		
Flywheel Housing, Aluminum		
Fuel Water Separator, Mack w/ Manual Drain Valve (integral w/ primary fuel filter) or equivalent		
Hoses, Radiator/Heater, Silicone w/ Spring loaded clamps for both radiator and heater hose		
Electric Pre-heater		
Starter, 12V Gear reduction starter		
Electronic Starter Interlock		
Tether device, Plastic coated cable mounted front of each battery box length to allow cover to set on ground		
		YES NO
TRANSMISSION EQUIPMENT/DRIVELINES	COMPLIES	
Synthetic Transmission Lubricant, Transient Lube for Allison Transmission		
Allison Vocational Package #105183 Rugged duty series. Dual selector w/o gear speed limits both sides no exceptions		
Driveline Main, Spicer 1750 HD with coated splines		
Driveline Internal, Spicer 1710 with coated splines		
		YES NO
CAB	COMPLIES	
Air Restriction Monitor (intake), graduated lock-up (air cleaner intake mounted) ash tray, (1) w/ hinged cover (located on top of console)		
Cab, RH and LH sit down, driving position cab mounting, four point fixed type rear mounted unit must be able to be driven from both left and right sides. No aftermarket conversions will be accepted		
Cab lift/tilt, mounted on RH fender bracket		
Certified Weight		
Cigar lighter on instrument panel		
Coat hook (1)		
Engine running activated		
Dome lights, (2) w/self-contained switch (one on each side)		
"LE" LH and RH roll-up windows, front hinge doors		
Engine shut-off, key type		
Gauge, Dual Air Pressure		
Gauge, Voltmeter		
Gauge, Engine Coolant Temperature		

Gauge, Engine Oil Pressure			
Gauge, Exhaust Pyrometer			
Gauge, Fuel Level			
Gauges, English Display			
Gauge, Electronic Speedometer/Odometer Proximity Pick-Up and Magnetic Sensor			
Gauge, Tachometer			
Transmission gauge and transmission oil high temperature light			
Gear Shift with neutral-to-range inhibit			
Glass – cab window, safety tinted windshield side and rear windows			
Exterior grab handle, aluminum, RH and LH, behind door and interior RH and LH on windshield post and RH on instrument panel			
Grill, standard finish			
Heater with integral defroster			
Horn – air, (1) twin trumpet with dual lanyard control (mounted under cab)			
Horn – electric, single tone with dual lanyards			
Identification n/clearance lights, (7) marker and clearance			
Interior trim – (silver-gray vinyl)			
Chasis keyed at random – 2 keys			
Fire Extinguisher – mounted in cab			
Triangle Safety Kit – mounted in cab			
First Aid Kit – mounted in cab			
Low air pressure indicator light and buzzer			
Mirror, exterior, moto mirror, RH/LH motorized and HTD (S.S>) retractable arms and brackets RH/LH door mounted			
Mirrors – convex type, bright finish, LH and RH 8.0” diameter mounted below lower arm of west coast mirror			
Mirrors, proximity, rect convex above RH and LH door			
Mud flaps, 12” front fender mounted			
Parking brake control w/ warning light			
Personalized name plate “Township of Ocean”			
AM/FM stereo CD w/ weather band			
Radio antenna, CH style cowl mounted on LH side			
Rear window (fixed type)			
Seat – Driver, Bostrom Talladega 910 (mid back) air suspension (black DuPont cover)			
Seat – Rider, RH seat: Air-Bostrom Talladega 910 (mid-back) w/black DuPont cover			
Seat belts (orange) retractors, lap and shoulder for driver and rider seat			
Driver’s and Rider’s Seat – Side markers, lamps and reflectors to meet or exceed Federal Regulations, no exceptions			
Starter switch, key type			
Steering column, fixed			
Sun visor – interior, both sides			
Turn signals, front			
Turn signal switch, manual canceling switch			
Ventilation – cab, furnished LH and RH door vents			
Windshield protector, omit			
Windshield washers, electric, wiper mounted w/ 7 qt. (6.6L) reservoir			
Windshield wipers, Sprague-2 speed electric motor w/intermittent feature			
AIR CONDITIONING	COMPLIES	YES	NO
Roof Mounted air conditioning unit			
FRAME EQUIPMENT/FUEL TANKS	COMPLIES	YES	NO
Bumper – Front, painted steel flush mounted 59”/1488 mm BBC (Corp 94” x 15.5”)			
Cross member, steel ½” pl bolted boc and intermdt 1/8” below rail, 1 st x mber boc rr 38.17 from al line			
Cross member (behind rear axle), w/o optional cross members behind rear axle/bogie			

Frame rail clearance, right hand – r/side from rear of cab to bogie no exceptions			
Light weight plate under bumper and radiator			
Towing device – front – tow pin			
Towing device – rear, hooks (frame mounted)			
Fuel tank – LH, 70 gallon 24" diameter aluminum			
Fuel tank – RH – omit standard			
Fuel lines, Aeroquip resistant for LH fuel tank includes sump			
Relocate fuel tank, locate RH tank as far forward as possible, 5" below top of rail			
FRONT AXLE/EQUIPMENT/TIRE	COMPLIES	YES	NO
Front axles, 20000# (9072kg) Mack FXL20 wide pivot center or equivalent			
Tires brand/type – front, Bridgestone – tubeless radial ply, (2) 312/80R22.5 20L M860 (all pos)			
Wheels – Front, aluminum disc			
(2) 22.5 x 9.0 Alcoa 10-hole hub piloted (11 ¼"/286mm BC)			
Wheels – polished (front), (2) dura-bright protection process (bright finish) polish and coating no exceptions			
Hubs – front ferrous			
Brakes – front, meritor "S" cam type 16.5" x 6" Q+			
Brake chamber – front, cast outboard mounted			
Dust shield – front brake, furnish			
Shock absorbers, front			
Slack adjusters – front, gunite 2000 – automatic			
Springs – front, mack multileaf 20,000 (9072kg) ground load rating or equivalent			
Static load cushions			
Steering, M100P plus right side assist cylinder			
REAR AXLE/EQUIPMENT/TIRE/RATIOS	COMPLIES	YES	NO
Rear axle/suspension, 46000# (20866kg) Mack S462 cast ductile iron housing, or equivalent , SS462 Mack or equivalent			
Multileaf (camelback) 46000#			
Tires brand/type rear, Bridgestone – tubeless radial ply, (8) 11R22.5 16H M843 (all position)			
Carrier/ratio – rear axle, Mack malleable CRDPC92/CRD93, 5.02 ratio DUEL REDUCTION CARRIERS (no exceptions)			
Wheels – rear, aluminum disc			
(8) 22.5 x 8.25 (210) mm) Alcoa 10-hole hub piloted (11 ¼" 286mm bolt circle)			
Wheels – polished (rear), (8) dura-bright protection process (bright finish) polish and coating no exceptions			
Hubs – rear, ferrous			
Brakes – rear, meritor "S" cam 16.5" x 7" Q+			
Brake diaphragms, neoprene for MGM brake chambers			
Brake drums – rear, cast outboard mounted			
Dust shields – rear brake, furnish			
Oil seals, stemco (voyager)			
Power divider lockout w/ warning light and buzzer (includes in cab manual air valve)			
High mount rear brake changers (rear axle only)			
Shock insulators, heavy duty urethane			
Slack adjusters – front, gunite 2000 – automatic			
Suspension – axle spacing, 50" axle spacing (bogie wheelbase)			
Springs, anti-sway			
Spring brake chambers – quantity, (4) chambers			
Spring brake chambers – vendor, MGM model			
Spring brake chambers, type 30/30 rear			
Synthetic lubricant – rear axle, 75W – 90 (synthetic lubricant – synthetic)			
Transverse torque rod (rear axle only)			
Bronze trunnion bushing			

AIR / BRAKE	COMPLIES	YES	NO
Air lines (chassis), extruded nylon tubing (1/8" and 1/4" lines are single extrusion; 3/8" and larger have polyester reinforced center)			
Air brake system, dual			
Air control valves – vendor, bendix switches and valves where possible			
Air dryer, meritor/wabco air dryer, SS twin w/ coalescing oil filter			
Air reservoirs, aluminum, standard finish			
Anti-lock brake system, Bendix ABS			
Automatic drain valve, Bendix (heated) (1) on supply (wet) tank			
Manual drain valve lanyard, all air reservoir plumbed to manifold w/ labeled drain valves include both sides supply tank			
ELECTRICAL	COMPLIES	YES	NO
Back-up alarm preco, model 1059			
Battery box(es), steel base			
Battery box covers, polished aluminum			
Battery box – mounting, furnish with battery box locking tab			
Battery disconnect switch – flaming river industries "big switch" mounted on RH side of battery box			
Battery switch warning light, furnish on or near battery box (light on in run position)			
Computer and 2-way radio dedicated circuit			
Electric circuit protection package, 12-volt w/ circuit breakers (headlamp circuit: SAE type I: all other circuits SAE type II) negative ground system			
Waterproof electrical connections sprayed w/ protective coating			
Control Link			
Headlights, (2) Single round halogen lamps			
Rear lighting, break lights to come on when spring breaks are applied and key in run position			
Signal flasher type, kysor #1039-07732-10 w/ Packard 3 pin sealed connector mounted on steering column near bottom of dash			
PAINT	COMPLIES	YES	NO
Paint – Cab exterior, single color, Mack white (high gloss) or equivalent			
Paint – Cab, urethane clear coat			
Paint – Chassis running gear, Mack black (urethane) or equivalent			
Paint – Front spoke wheels, without optional spoke wheel paint			
Without optional spoke wheel paint			
Without special per-finished options			
Without special pre-finished options			
PTO/SPECIALTY/ADDITIONAL EQUIPMENT	COMPLIES	YES	NO
PTO – Rear engine (repto), without rear engine power take off			
Hydraulic pump, furnish pump mtg provisions – include wiring, switches and indicators as required			
W/O work brake			
V-MAC IV PROGRAMMABLE PARAMETERS	COMPLIES	YES	NO
Cruise control max set speed (MPH) 65 mph			
Cruise control min set speed (MPH) 20 mph			
Cruise control auto-resume w/ clutch furnish			
Cruise'n brake engagement delay (MPH) 3 mph			
Engine over-speed company limit (RPM) 2200 rpm			
Fueled engine over-speed company limit (RPM) 2100 rpm			
Vehicle over-speed company limit (MPH) 75 mph			

Fueled vehicle over-speed company limit (MPH) 70 mph		
Idle logging delay (MIN) 2		
Periodic trip type – monthly trip summary		
Periodic trip hour of day 0 (disable)		
Periodic trip day of week 0 (disable)		
Periodic trip day of month 1		
EHT max engine set speed (RPM) 2100 rpm		
EHT min engine set speed (RPM) 500 rpm		
EHT vehicle speed range limit (RPH) 10 mph		
EHT ramp rates (RPM/Sec)		
EHT single speed control activation – omit		
EHT single speed control set speed (RPM) 1000 rpm		
EHT jump-to-min set speed – omit		
Engine protection – oil pressure shutdown furnish		
Engine protection – coolant level shutdown – omit		
Engine protection – coolant temp shutdown furnish		
Engine protection – engine oil temp shutdown furnish		
Engine protection trans oil temp shutdown – omit		
Allow fan override when moving furnish		
Fan override time when moving (MIN) 1		
Allow fan override when parked – omit		
Fan activation with PTO – omit		
Air conditioning override time (SEC) 60		
Governor Type MIN-MAX Governor		
Engine high idle speed in upper gears 2100		
Engine low idle set speed (RPM) 650 rpm		
Driver low idle adjust feature activation – omit		
Smart idle feature activation – omit		
Smart idle elevated idle RPM time (MINS) 10		
Idle cool-down feature activation – omit		
Idle shutdown feature activation – omit		
Idle shutdown time (MINS) 10		
Idle shutdown warning time (SECS) 30		
Idle shutdown warm-up temperature (DEG F) 100		
Idle shutdown warm-up timer (MINS) 5		
Idle S/D override w/EHT – omit		
Idle S/D override w/PTO furnish		
Idle S/D override w/ engine LOAD Furnish		
Maintenance monitor feature activation furnish		
Maintenance monitor OEM default intervals MP vocational		
Maintenance due warning percent 90		
PTO 1 max engine set speed (RPM) 2100 rpm		
PTO 1 min engine set speed (RPM) 600 rpm		
PTO 1 vehicle speed range limit (MPH) 10 mph		
PTO 1 ramp rate (RPM/Sec) 100		
PTO 1 single speed control activation – omit		
PTO 1 single speed control set speed (RPM) 1000 rpm		
PTO 1 single speed control auto set – omit		
PTO 1 jump-to-min set speed – omit		
PTO 1 vehicle limiting speed (MPH) 85 mph		
PTO 2 max engine set speed (RPM) 2100 rpm		
PTO 2 min engine set speed (RPM) 600 rpm		
PTO 2 vehicle speed range limit (MPH) 10 mph		
PTO 2 ramp rate (RPM/Sec) 100		
PTO 2 single speed control activation – omit		
PTO 2 single speed control set speed (RPM) 1000 rpm		
PTO 2 single speed control auto set – omit		
PTO 2 jump-to-min set speed – omit		
PTO 2 vehicle limiting speed (MPH) 85 mph		

Speed sensor tamper detection system activation furnish		
Speed sensor tamper detection torque limit (%) 50		
Customer vehicle limiting speed (MPH) 65 mph		
LGVLS feature activation – omit		
Lower gear vehicle limiting speed (MPH) 65 mph		
DEALER INFORMATION	COMPLIES	YES NO
Standard engine warranty, 5yr/300,000 miles engine warranty. Warranty must be supplied in detail at time of bid		
Manuals, pedigree protection plan tech, service manual provided		
Extended Allison Transmission to 5 yrs and 100% parts and labor and towing		
Standard shipping instructions		
Shall REGISTER VEHICLE WITH MG PLATES AND GVW OF 70,000 LBS		

PERFORMANCE/GRAPHIC/TECH DATE	COMPLIES	YES	NO
Ambient temperature, 77F (25.0C)			
Back of cab interferences, vertical exhaust, 34" (762mm) from back of cab			

III. GLEDHILL MODEL THFF TUBE TYPE HEAVY FRONT FRAME SNOW PLOW HITCH WITH QUICK COUPLING (Or Equal)

1. HITCH:

- 1.01 The complete hitch and hydraulic system including design, engineering, pump, fittings, valves, hoses and all components shall conform to the highest quality of commercial hydraulic installation standards and provide long life and trouble free service in a severe duty operational environment.
- 1.02 Hitch and plow to be engineered, designed and built by a recognized snow plow manufacturer. The snow plow hitch shall be designed to provide support for a variety of front mounted gear or piston load sensing pumps. The design shall limit the amount of front overhang to a minimum.
- 1.03 A truck frame extension is not required for the mounting of the hitch.
- 1.04 Heavy Front Frame hitch of modular design shall allow the cab hood to tilt forward a sufficient amount to allow proper engine access.
- 1.05 Side plates will transmit plowing forces directly to the truck frame side rails and will custom to fit the specified year, make and model of the truck(s).
- 1.06 The side plates are custom fitted 5/8" steel plate of proper length and construction for heavy duty service and shall provide adequate clearance for steering mechanisms and spring suspensions.
- 1.07 The specified truck bumper shall be cut and attached to either side of hitch side plates and reinforced as required using custom made bolt-on plates for easy replacement.
- 1.08 The front sections of the hitch assembly, lift frame, center section and the lower push plate shall all be welded to the two (2) vertical tubular supports.
- 1.09 The tubular supports are to be constructed of 4" x 4" square tubing x 1/2" thick wall. Vertical tubular supports to be a minimum of 45" tall.
- 1.10 The center cylinder and pump structural section to be built with a 3/4" x 6" plate reinforced by a 4" x 3" x 1/2" angle and two (2) 1/2" x 3" lift cylinder ears. This plate shall run from tube to tube.
- 1.11 Included shall be a minimum of a 4" diameter hole to allow the pump driveline to pass through to connect to the hydraulic pump, either gear type or piston load sensing.
- 1.12 Two (2) bumper support angles shall be welded to the main tubular supports and shall be at least 6" x 4" x 3/8".
- 1.13 A front bumper shall be included and made of at least 8" @11.5# channel. There shall be two (2) each 1/2" x 5" gussets supporting the angles.
- 1.14 The hitch lift beam shall consist of two (2) 5/8" x 3" bars, secured by 10 gauge top cap and a minimum of three (3) 1/2" x 3" spacers.
- 1.15 This beam shall be assembled so the beam may drop down to allow full tilting of the truck hood without any interference. Pivot pins shall be 1" diameter minimum Grade 5.
- 1.16 A mounting ear shall be provided to lock the beam in the down position. In the drop down position, the lift cylinder shall be so positioned that if accidentally extended, will not cause any damage to the hitch or truck.
- 1.17 The lift arm shall attach to the top lift frame, which shall be a 4" x 3" x 1/2" angle and

- four (4) 1/2" x 3" ears. Attachment shall be made by two (2) 1" pins having at least 72,700 pounds of tensile strength.
- 1.18 The lower push plate main member shall be fabricated from at least 1/2" steel plate with the exception of the curved pushing plates that shall be 5/8" steel plate.
- 1.19 It shall run between and be solidly attached to both tubular support members. Additional gussets of 1/2" thick material shall also be furnished for maximum strength. The quick hitch shall provide self-alignment with the mating plow section while being engaged.
- 1.20 Sufficient openings shall be provided in the bottom and back part of the fabricated member to prevent the build up of ice and/or snow.
- 1.21 An automatic cast coupling hook of high carbon steel shall pivot inside the fabricated member. It shall have an effective working cross section of at least 12 square inches and shall latch automatically when the mating plow portion is in the engagement position.
- 1.22 A spring loaded lock pin shall accomplish the dual function of preventing unwanted locking in the open position and to hold the latch positively in the closed position.
- 1.23 Design consideration will allow permissible plow misalignment of a range of 6" in height and 7" left to right of center.
- 1.24 The plow hoist cylinder shall be of premium grade and shall be a double acting 3" bore x 10" stroke. The rod is to be of steel construction, treated with a nitro steel process.
- 1.25 The ram sleeve or outer barrel will be such that the rod packing may be maintained or replaced as required. A positive stop must be incorporated that will help prevent mechanical pressure being applied to the packing when the rod is fully extended.
- 1.26 The cylinder shall be capable of 14,137 lbs. of thrust @ 2000 PSI and 16,000 lbs. Of bursting pressure @ 2000 PSI and 16,000 lbs. Of bursting pressure @ 2,000 PSI. Minimum weight of the cylinder shall be 28 lbs., ports to be 3/8".
- 1.27 Hitch shall be tested three dimensionally for stress using a computer generated finite element analysis (FEA) program. This software must comply with Section 10CFR50, Appendix B, and 10CFR21 of the code of Federal Regulations established by the Nuclear Regulatory Commission (NRC), as well as being ISO 9001 compliant. No more than 9500 KSI of stress on the hitch shall be realized when a total load of 2500 lbs is applied forward and parallel to the ground at the location of the pinned lift beam/top section ear connection. No more than 7100 KSI of stress on the hitch shall be realized when a total load of 5000 lbs is applied rearward and parallel to the ground at the QCP push plates. A color print showing stress levels, with information regarding type of mesh, size of mesh, and type of stress, must accompany the bid.

2. FOLDING LIFT BEAM:

- 2.01 The folding lift beam shall consist of (2) 1/2"x 3" bars, secured by a 1/4" thick cap and (2) 1/2"x 3" ears assembled so the beam may fold to allow full tilting of the truck hood without any interference. Lift arm folds out of the way when not in plowing use. The pivot bolt shall be 1"dia. min. grade 5 bolt.
- 2.02 In the folded position the lift cylinder shall be so positioned that if accidentally extended, will not cause any damage to the hitch or truck.

3. SNOW PLOW LIGHTS:

- 3.01 Lights to be mounted with aluminum brackets that attach to the fender and hood. Wiring

to be loomed and grommeted. Lights to be positioned with enough height clearance when plow is in the fully raised position.

IV HIGH STRAIGHT MOLDBOARD "BUILT-IN BAFFLE" SNOW PLOW (Gledhill or equal)

1. MOLDBOARD:

- 1.01 Shall be engineered, designed and built by a recognized snow plow manufacturer. There must be a min. of 50 plows of the exact make and model bid in satisfactory use for a period of not less than 3 years. Certification as to the above shall be supplied within 5 working days if requested.
- 1.02 The moldboard shall be a minimum of 42" uniform height and 11 ft. long at the cutting edge. The moldboard shall be made of not less than #10 ga. steel, panned for additional strength with built-in deflector (baffle) of unitized design.
- 1.03 The moldboard shall have the built-in baffle design providing a continuation of the moldboard ribs and contour a minimum of 12" overhanging the cutting edge (no bolt-on assemblies permitted). A top reinforcing angle shall be made of not less than 3" x 2" x 3/8", running the full length of the moldboard.
- 1.04 The vertical ribs shall fully extend to the built-in baffle angle. At the bottom, a one piece structural angle at least 4" x 4" x 3/8" shall reinforce the moldboard. To this angle, a cutting edge backing of 5/8" x 3" shall be welded and further braced by gussets a minimum of 1/2" x 2-1/2" welded between each cutting edge bolt position.
- 1.05 The front face of the cutting edge shall be flush with the moldboard face to prevent snow buildup on the top surface of the blade.
- 1.06 The moldboard shall be reinforced with a min. of (8) full length vertical ribs of at least 1/2"x 3" formed steel, continuously welded on both sides of edge to the moldboard sheet.
- 1.07 *The lower rear cross angle shall be provided with at least (14) ears, 3/4" thick, for attachment to the table assembly at 7 point (min.) with 1" dia. grade 5 pins.*
- 1.08 The cutting edge shall be of abrasion resistant steel C1090 or equal with a Brinell hardness of 250 min. and 325 max. It shall be 1/2" thick x 6" wide and full length of moldboard, AASHO standard punched.

2. TRIPPING MECHANISM:

- 2.01 Shall be attached to the table and to moldboard and shall consist of at least 4 extension springs, 4-1/2" O.D. x 1/2" oil tempered spring steel. These springs shall control the trip so that the plow will be held rigid for plowing and will trip automatically when coming in contact with any solid object.
- 2.02 The extent of the forward motion of the moldboard shall be controlled by a mechanical telescopic tripping post assembly constructed of at least a 1-1/4"x 2" inside bar, 3/4" x 2-1/4" outside bars. The tripping post assembly shall be independent of the springs and shall prevent the top of the moldboard from contacting the road surface.

3. PLOW HYDRAULIC REVERSING TABLE OR SEMI-CIRCLE:

- 3.01 Shall have at its front a minimum of (10) ears, 3/4" thick on 88" hinge point centers for attachment to the moldboard assembly at five (5) points.
- 3.02 Attachment pins shall be 1-1/4", 105,000 pounds tensile strength pins.
- 3.03 The four (4) tubes comprising the table shall all be a minimum of at least 5" x 5" x 5/16"

wall tubing. Angle irons not acceptable.

- 3.04 Connecting reinforcements from the front tube to the side tubes shall be four (4) 5/8" thick plates welded together for maximum strength.
 - 3.05 Additional inside corner reinforcements shall be 3/8" thick plates.
 - 3.06 The cylinder hook up points shall be the 5/8" plates with all cylinder holes to be reinforced with heavy wall tubing of sufficient length so as to not allow more than 1/4" cylinder pin to be exposed at the shear point, thus minimizing the chance of pin bending.
 - 3.07 Table shall also provide positive stop blocks to stop the plow at 35 degrees to relieve the stress on the cylinders.
 - 3.08 Supporting and reinforcing the front tube shall be 1/2" 3-1/2" flats, 1/2" x 4" flats and a 5" x 3" angle.
 - 3.09 Attached to each end will be plates of 1/2" x 7" material to which carrying devices such as cast shoes or caster wheels can be bolted.
 - 3.10 The carrying device plates shall be further reinforced by an angle of not less than 4" x 4" x 1/2" and 1/2" thick plate steel.
 - 3.11 Two (2) jockey bar ear attachments will be located on top of the angle reinforcements and shall be at least 1-1/4" x 3-1/2" material. These ears shall accept the corresponding jockey bars which in turn connects to the moldboard assembly.
 - 3.12 The lift chain assembly shall include a zinc plated 7/16" proof coil chain along with a cast steel chain block to help facilitate reversing the plow from right to left.
- 4. PLOW A-FRAME:**
- 4.01 A-frame shall consist of four (4) structural tubes a minimum of 4" x 2" x 3/16" wall tubing and two (2) 5/8" thick plates.
 - 4.02 This configuration shall be as two (2) a-frames, one of which rides above the table and one of which rides below the table, these two being joined in the rear by a full piece of 3/4" plate to form a deep "C" type configuration, which straddles the table.
 - 4.03 The tubing runs from the rear to the front on both top and bottom. The front of the tubing is joined together and reinforced on the top and bottom respectively by 5/8" plates, which extends from the pivot point back to the reversing cylinder hook up point and acts as an integral part of both of these points.
 - 4.04 Points are reinforced with heavy wall tubing to provide bearing surface for the pins and bolts.
 - 4.05 The a-frame to table pivot bolt shall be at least 2" diameter, 1045HR material and furnished with a slotted hex nut.
 - 4.06 A center cylinder pin common to both cylinders shall be 1-1/4" diameter.
 - 4.07 Connecting the four (4) push channels shall be the plow portion of the quick hitch. This member consists of a high carbon steel bar 1-15/16" diameter cold formed into a "U" shaped loop.
 - 4.08 The loop shall penetrate into and weld to a 4" car channel which shall in turn be welded to the table push beams.
 - 4.09 The entire table assembly shall be designed to allow ample raising, lowering and

oscillation of the plow.

- 4.10 Permissible misalignment in hitching: Loop at rear of plow can be high or low through a range of 6". Truck can be right or left of center through a range of 7".
- 4.11 The lift chain assembly shall include a zinc plated 7/16" proof coil chain, repair link, 1/2" anchor shackle and a 7/16" grab hook clevis.

5. PLOW HYDRAULIC REVERSING MECHANISM:

- 5.01 Shall consist of two (2) double acting hydraulic cylinders of at least 4" inside diameter with piston rods at least 2" diameter with a stroke of at least 12".
- 5.02 Cylinder piston rods to be treated with a nitro steel process to help prevent rusting. Chrome piston rods not acceptable.
- 5.03 These cylinders shall be capable of reversing the plow from 35 degrees right to 35 degrees left, or hold the plow at any angle within this arc. The cylinder geometry and components of the hydraulic system shall be designed to hold the plow at any desired plowing angle without recourse to a locking device, under maximum load, without overloading rated capacities. HYDRAULICS FOR PLOW WILL BE TAKEN OFF EXISTING PACKER HYDRAULICS, ALL NECESSARY VALVES, HOSES, DIVERTER VALVES, WILL SUPPLIED, CARE SHALL BE TAKEN AS TO NOT INTERFERE WITH ANY OEM HOSES, OR OTHER EQUIPMENT. HANDLES AND CABLES IN RVC CONTROL BOX WILL BE INSTALLED FOR EASE OF OPERATION.

6. SNOW PLOW MARKERS:

- 6.01 Snow plow to be equipped with (2) plow markers. Markers to be constructed of high density polyethylene, 1-1/4" OD x 1" ID by 24" long, safety yellow with a flexible joint at the bottom & attached to the plow by means of cotter pins.

7. OPTIONS TO BE INCLUDED WITH PLOW:

- 7.01 CARRYING DEVICE: Skid shoe assemblies must be of the hand adjustable type, enclosed and fully lubricated, with replaceable chilled cast iron shoes, mushroom shaped, at least 11" in diameter and 2-1/2" thick. The adjustment shall be accomplished by an Acme threaded screw, operated by a hand crank with rotating knob which shall be self-locking and shall operate without the use of any tool.
- 7.02 CURB SHOE: Fabricated right and left hand curb shoe.
- 7.03 LEVEL LIFT: (Gledhill or equal) Shall provide an automatic, mechanically activated mechanism that will hold a raised plow moldboard equal distance from the ground to the bottom of the cutting edge on both sides. The level lifter will hold an equal elevation regardless of height raised above ground and regardless of moldboard plowing angle, whether full right, bulldoze, full left, or anywhere in between. Moldboard plowing angle can be changed to any desired position maintaining equal elevation without first lowering plow, changing plowing angle, and then relifting. Shall be provided with (2) lifting chains, 7/16 proof coil chain x 60" long.

BID SPECIFICATIONS FOR SCHAFFER CARTS OR EQUAL:

95-Gallon Universal Container

The Township shall be furnished with an instructional video along with hand-outs for residents with instructions.

RESIN PRICING INCREASE/DECREASE AGREEMENT

The contract pricing resulting from this "Invitation to Bid" shall be binding for one hundred eighty (180) days from date of the award of the contract, and shall be reviewed each one hundred eighty (180) days thereafter throughout the term and conditions of said contract. Should the market price of resin increase or decrease from the initial unit price, the increase/decrease for future orders will be passed onto the Township after the initial order.

CONFIDENTIAL INFORMATION

Each bidder must supply, with their bid in a separate sealed envelope, 1. The total weight of resin used in the body and lid only of each size container. 2. The cost of the resin per pound on which the bid is based. 3. Certified documentation from the resin manufacturer, confirming the price per pound. All documentation will be held in strict confidence and considered Confidential Material.

INSTRUCTIONS

Bidders are to fill out this form completely, noting any and all discrepancies. If a clause is met exactly, so state. If an **OR EQUAL** and/or **EXCEPTION** are being proposed, mark an **EXCEPTION** for that item and state specifically on the **EXCEPTION SHEET** what is being offered. Manufacturers' brochures **WILL NOT SUFFICE.**

**BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.
IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.**

GENERAL

	<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
The container shall be designed for the collection of solid waste material. The container shall meet ANSI Z245.60-1999 and ASNI Z245.30-1999 Type Bar/Grabber specifications. The container must be manufactured under strict ISO 9001 Certification guidelines. This specification has been selected by the department for the following reasons: (1) Durability (2) Stability in windy conditions (3) System wide aesthetics (all sizes the same basic design) (4) Ergonomics (Efficient footprint to allow for easy garbage storage and passage through doorways and gates) (5) Molding Process-Injection Molded Only.	_____	_____	_____
Bid container must be manufacture's latest design.	_____	_____	_____
The container shall be provided with adequate wheels and handle to permit pushing or pulling with little effort.	_____	_____	_____
The Container shall be designed to dump into standard rear load garbage truck, manual side loader, front load garbage truck, fully automated refuse vehicle, or a recycling vehicle meeting ANSI approved lifters.	_____	_____	_____

MATERIALS

The body and the lid of the container shall be formed from the same molding process using first quality high-density polyethylene. Polyethylene resin shall be one hundred percent (100%) Virgin material. Off-Spec or Wide-Spec material is not acceptable. Bidder must submit manufacturer's material specification with bid. If specified herein, the container may be manufactured with up to 15% post consumer recycled polyethylene.

	<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
All material must be hot compounded and is the only acceptable procedure. Dry blending of material is unacceptable. Bidder must supply name, address and serial number of equipment.	_____	_____	_____
Material must be UV stabilized for maximum protection. No less than .5% (one half of one percent) Tinuvin\Chimassorb 783 or the approved equivalent. Bidder must supply manufacturer's sheet detailing UV stabilization.	_____	_____	_____

CONTAINER BODY DESIGN

The container shall be a minimum of ninety-five (95) gallons, excluding the domed lid. Upper front and side body walls shall be uniform wall thickness from the ground to the gussets. Back body wall shall be straight from the wheel well to the gussets with uniform wall thickness. The container must have a reinforced wall thickness on the front wall of the container as well as additional internal support from the top of the lower bar to the bottom of the container.

The body walls shall have a slight taper so that the top of the body is slightly larger than the bottom for nesting during shipment.

The container must have a 1" radial upper attachment envelope and shall be of an in-molded locking design reinforced with in-molded support gussets. The lower bar envelope must be a 1" steel free-floating bar. Molded-in bars are unacceptable. The lower bar must have a "one way" mounting feature. Retention of the lower bar is with two (2) corrosion resistant metal drive rivets. Lower bar must be capable of field replacement.

The upper attachment envelope must have drain holes so not to retain water, ice, snow etc.

The container shall be capable of accommodating a maximum of three hundred forty (340) pounds, excluding the weight of the container.

Minimum wall thickness of the body shall be no less than .175 inch. Weight when empty shall be a minimum of forty (40) pounds, fully assembled.

Interior and exterior surfaces shall be smooth, non-porous, uniform in appearance, and free of foreign substances, shrink holes, cracks, blowholes, webs, and other superficial or structural defects that could adversely affect the appearance and performance of the container. It shall not support combustion or bacterial growth.

The body of the container shall have two (2) 3/8" molded-in wear strips to withstand abrasion and wear associated with street contact during moving and lifting. Add-on wear pads or abrasion strips that are concaved at the inside bottom of the container are not acceptable.

LIDS, HINGES, HANDLES

Each container shall be equipped with a convex shaped lid designed to continuously overlap the body. It shall be designed to prevent rainwater and rodents from entering the container.

YES NO OFFERED

The lid shall be of one-piece construction with two (2) oblique handles on the front corners for easy opening. Lids that must be opened manually by grasping the edge of the lid are unacceptable. Bolted on handles are unacceptable.

The lid hinge shall be attached to the handles at three (3) points with rust-proof fastener system. Bolted or screwed on lid hinges are unacceptable. Hinges shall be test-rated to nine hundred (900) pounds pull strength.

The lid should open to a position 270 degrees from the closed (horizontal) position and hang open without stressing the lid or container body.

For safety reasons, when opening the lid manually, hands should not come in contact with the front base of the lid.

The lid shall have an in-molded rim on the underside circumference to serve as a vector barrier and condensation collector.

The lid shall be designed to enable the free and complete flow of refuse from the container during the dumping cycle.

WHEELS AND AXLES

Each container shall be fitted with a minimum 7/8" diameter, cold-rolled, galvanized steel Axle which shall be mounted in the cart body through yokes molded into the cart body and Providing permanently lubricated bearing surfaces.

Each container shall be equipped with two (2) plastic molded/snap-on wheels, rated for 200 lbs. load per wheel. Wheels with palnut attachments are not acceptable. Wheel diameter shall be a minimum of twelve (12") inches.

STABILITY

The containers, when empty, shall be stable and not blown over in winds from any direction up to forty-three (43) mph. Certified wind tunnel testing must be provided with bid.

SAFETY

The container shall be free from sharp corners, edges, points, or other structures that could represent a hazardous nuisance.

The container body and lids shall be manufactured from materials that may be recycled at the end of the useful life.

REFERENCES

Bidder must supply (5) municipal references, in (5) different areas, of 10,000 containers of like design, in service a minimum of (3) years.

COLOR

Color shall be black carts with black and blue lids

MARKINGS

Container must have hot stamping

YES NO OFFERED

WARRANTY

Minimum ten (10) year warranty: The container shall be warranted to be free from manufacturing or materials defects for non-prorated replacement for 120 months from delivery date.

POINT OF MANUFACTURE

The Bidder certifies a sub-contractor or out of house control, will not manufacture container body or lid.

If Bidder is a distributor or dealer, then the Bidder must include a statement from the manufacturer that owns the brand that all container bodies and lids will be manufactured by its own majority owned plants and not subcontracted.

Describe any sub-consultants to be used. Subcontracting of any portion of this Purchase is absolutely forbidden without first obtaining prior written consent form the City Administrator.

DIMENSIONS

Container shall be designed and manufactured in accordance with dimensional requirements listed below.

DIMENSIONS

- Overall Height 46.5"
- Overall Width 28"
- Overall Depth 30.5"
- Wheel Diameter 12"

65-Gallon Universal Container

The Township shall be furnished with an instructional video along with hand-outs for residents with instructions.

RESIN PRICING INCREASE/DECREASE AGREEMENT

The contract pricing resulting from this "Invitation to Bid" shall be binding for one hundred twenty (120) days from date of the aware of the contract, and shall be reviewed each one hundred twenty (120) days thereafter throughout the term and conditions of said contract. Should the market price of resin increase or decrease from the initial unit price, the increase/decrease for future orders will be passed onto the Township after the initial order.

CONFIDENTIAL INFORMATION

Each bidder must supply, with their bid in a separate sealed envelope, 1. The total weight of resin used in the body and lid only of each size container. 2. The cost of the resin per pound on which the bid is based. 3. Certified documentation from the resin manufacturer, confirming the price per pound. All documentation will be held in strict confidence and considered Confidential Material.

INSTRUCTIONS

Bidders are to fill out this form completely, noting any and all discrepancies. If a clause is met exactly, so state. If an **OR EQUAL** and/or **EXCEPTION** are being proposed, mark an **EXCEPTION** for that item and state specifically on the **EXCEPTION SHEET** what is being offered. Manufacturers' brochures **WILL NOT SUFFICE.**

GENERAL

YES NO OFFERED

The container shall be designed for the collection of solid waster material. The container shall meet ANSI Z245.60-1999 and ASNI Z245.30-1999 Type Bar/Grabber specifications. The container must be manufactured under strict ISO 9001 certification guidelines. This specification has been selected by the department for the following reasons:
(1) Durability (2) Stability in windy conditions (3) System wide aesthetics (all sizes the same basic design (4) Ergonomics (Efficient footprint to allow for easy garbage storage and passage through doorways and gates) (5) Molding Process – Injection Molded Only.

Bid container must be manufacturer's latest design

The container shall be provided with adequate wheels and handle to permit pushing or pulling with little effort.

The container shall be designed to dump into standard rear load garbage truck, manual side loader, front load garbage truck, fully automated refuse vehicle, or a recycling vehicle meeting ANSI approved lifters.

MATERIALS

The body and the lid of the container shall be formed from the same molding process using first quality high-density polyethylene. Polyethylene resin shall be one hundred percent (100%) Virgin material. Off-Spec or Wide-Spec material is not acceptable. Bidder must submit manufacturer's material specification with bid. If specified herein, the container may be manufactured with up to 15% post consumer recycled polyethylene.

All material must be **hot compounded** and is the only acceptable procedure. Dry blending of material is unacceptable. Bidder must supply name, address and serial number of equipment.

Material must be **UV stabilized** for maximum protection. No less than .5% (one half of one percent) Tinuvin\Chimassorb 783 or the approved equivalent. Bidder must supply manufacturer's sheet detailing UV stabilization.

CONTAINER BODY DESIGN

The container shall be a minimum sixty-five (65) gallons, including the domed lid. Upper front and side body walls shall be uniform in wall thickness from the ground to the gussets. Back body wall shall be straight from the wheel well to the gussets with uniform wall thickness. The container must have a reinforced wall thickness on the front wall of the container as well as additional internal support from the top of the lower bar to the bottom of the container.

The body walls shall have a slight taper so that the top of the body is slightly larger than the bottom for nesting during shipment.

The container must have a 1" radial upper attachment envelope and shall be of an in-molded locking design reinforced with in-molded support gussets. The lower bar envelope must be a 1" steel free-floating bar. Molded-in bars are unacceptable. The lower bar must have a "one way" mounting feature. Retention of the lower is with two (2) corrosion resistant metal drive rivets. Lower bar must be capable of field replacement.

The upper attachment envelope must have drain holes so not to retain water, ice, snow, etc.

The container shall be capable of accommodating a maximum of two hundred twenty (220) pounds, excluding the weight of the container.

Minimum wall thickness of the body shall be no less than .160 inch. Weight when empty shall be a minimum of thirty-two (32) pounds, fully assembled.

	<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
Interior and exterior surfaces shall be smooth, non-porous, uniform in appearance, and Free of foreign substances, shrink holes, cracks, blow holes, webs, and other superficial or structural defects that could adversely affect the appearance and performance of the container. It shall not support combustion or bacterial growth.	_____	_____	_____

The body of the container shall have two (2) 3/8" molded-in wear strips to withstand abrasion and wear associated with street contact during moving and lifting. Add-on wear pads or abrasion strips that are concaved at the inside bottom of the container are not acceptable.	_____	_____	_____
--	-------	-------	-------

LID, HINGES, HANDLES

Each container shall be equipped with a convex shaped lid designed to continuously overlap the body. It shall be designed to prevent rainwater and rodents from entering the container.	_____	_____	_____
---	-------	-------	-------

The lid shall be of one-piece construction with two (2) oblique handles on the front corners for easy opening. Lids that must be opened manually by grasping the edge of lid are unacceptable. Bolted on handles are unacceptable.	_____	_____	_____
--	-------	-------	-------

The lid hinge shall be attached to the handles at three (3) points with rust-proof plastic fastener system. Bolted or screwed on lid hinges are unacceptable. Hinges shall be test-rated to nine hundred (900) pounds pull strength.	_____	_____	_____
--	-------	-------	-------

The lid should open to a position 270 degrees from the closed (horizontal) position and hang open without stressing the lid or container body.	_____	_____	_____
--	-------	-------	-------

For safety reasons, when opening the lid manually, hands should not come in contact with the front base of the lid.	_____	_____	_____
---	-------	-------	-------

The lid shall have an in-molded rim on the underside circumference to serve as a vendor barrier and condensation collector.	_____	_____	_____
---	-------	-------	-------

The lid shall be designed to enable the free and complete flow of refuse from the container during the dumping cycle.	_____	_____	_____
---	-------	-------	-------

WHEELS AND AXLES

Each container shall be fitted with a minimum of 7/8" diameter, cold-rolled, galvanized steel axle which shall be mounted in the cart body through yokes molded into the cart body and providing permanently lubricated bearing surfaces.	_____	_____	_____
---	-------	-------	-------

Each container shall be equipped with two (2) plastic molded/snap-on wheels, rated for 200 lbs. load per wheel. Wheels with palnut attachments are not acceptable. Wheel diameter shall be a minimum of ten (10") inches.	_____	_____	_____
---	-------	-------	-------

STABILITY

The containers, when empty, shall be stable and not blown over in winds from any direction up to forty (40) mph. Certified wind tunnel testing must be provided with bid.	_____	_____	_____
---	-------	-------	-------

The container (whether empty or full) shall remain in the upright position when the lid is thrown open.	_____	_____	_____
---	-------	-------	-------

SAFETY

The container shall be free from sharp corners, edges, points, or other structures that could represent a hazardous nuisance.	_____	_____	_____
---	-------	-------	-------

YES NO OFFERED

The container body and lids shall be manufactured from materials that may be recycled at the end of the useful life.

REFERENCES

Bidder must supply (5) municipal references, in (5) different areas, of 10,000 containers of like design, in service a minimum of (3) years.

COLOR

Color shall be black carts with black and blue lids

MARKINGS

Container must have hot stamping

WARRANTY

Minimum ten (10) year warranty. The container shall be warranted to be free from manufacturing or Materials defects for non-prorated replacement for 120 months from delivery date.

POINT OF MANUFACTURE

The Bidder certifies a sub-contractor or out of house control, will not manufacture container body or lid.

If the Bidder is a distributor or dealer, then the Bidder must include a statement from the Manufacturer that owns the brand that all container bodies and lids will be manufactured by its own majority owned plants and not subcontracted.

Describe any sub-consultants to be used. Subcontracting any portion of this purchase is absolutely forbidden without first obtaining prior written consent from the City Administrator.

DIMENSIONS

Containers shall be designed and manufactured in accordance with dimensional requirements listed below.

DIMENSIONS

Overall Height 42.2"

Overall Width 26"

Overall Depth 26.8"

Wheel Diameter 10"

SAMPLE OF MARKING FOR WASTE CONTAINERS

HOT STAMPING

Hot Stamping on both sides of waste container, white in color and consecutive serial numbers on rear of container body. Embossment shall be on the lid, white in color, indicating the proper orientation for pickup. (see Sample below)

**Property of
Township of Ocean**

Serial Numbers

Each container shall have a nine (9) digit number, one half (1/2) inch high, hot stamped, white in color, on the rear of the container body. The number shall be in sequence beginning with the number 000000001.

EMBOSSMENT

FACE ARROWS TOWARD STREET

RFID TAGS:

Tags must be Ultra High Frequency

COMPLY
yes no

RFID tags must be embedded into the cart. Riveted and adhered tags on the body of the cart will not be accepted.

COMPLY
yes no

RFID technology will be comprised of passive RFID tags.

COMPLY
yes no

RFID embedded tags will support a GEN2 protocol. Configuration will contain a standard 96 bit ePC memory

COMPLY
yes no

RFID embedded tags must feature Kill & Access passwords to provide security and privacy. Tags must support anti-collision technology.

COMPLY
yes no

RFID tags will support field data writes.

COMPLY
yes no

RFID tags must withstand temperatures ranging from -31F to +122F.

COMPLY
yes no

RFID tags must provide for simple replacement in the event of premature failing.

COMPLY
yes no

RFID tags will be secure from tampering and protected from direct UV radiation and the physical elements.

COMPLY
yes no

RFID tags will have a field life expectancy of 10 years.

COMPLY
yes no

RFID tags will have a read range of up to 6ft.

COMPLY
yes no

RFID tags can be scanned and associated with serial number of carts at the manufacturing point.

COMPLY
yes no

Data of each container's serial number and RFID tag id will be provided in Excel

COMPLY
yes no

Existing carts in service can be retrofit with RFID tags

COMPLY
yes no

Handheld Reader:

Handheld Reader includes enrollment software

COMPLY
yes no

Enrollment software will be updated with address lists provided by city for door to door roll out

COMPLY
yes no

Handheld reader can communicate wirelessly with database

COMPLY
yes no

Handheld reader can communicate daily enrollment data from distribution crew wirelessly and update database

COMPLY
yes no

Handheld reader can be used to identify misplaced carts, reassign carts, enroll new carts and update database wirelessly

COMPLY

yes no

PROPOSAL FORM

TOWNSHIP OF OCEAN

Pursuant to and in accordance with the Purchaser's General Instruction, Requirements and Specifications for Bidders relating hereto, the undersigned hereby offers to furnish and deliver the following: three (3) 2010 expert helping hand, or equivalent, side loading refuse truck with a 33 cubic yard capacity body with snow plow and Universal Containers in accordance with the Specifications for the following price:

Three (3) Labrie expert (T), or equivalent, loaders mounted on 2010 Chassis with snow plow

Unit price \$ _____

Total price \$ _____
(3)

+/- 9,000 Universal Waste Containers – Black with Black Lids (95 Gallon)

Unit price \$ _____

Total price \$ _____
(9000)

+/- 1,700 Universal Waste Containers – Black with Black lids (65 Gallon)

Unit price \$ _____

Total price \$ _____
(1,700)

+/- 9,000 Universal Recycle Containers – Black with Green lids (95 Gallon)

Unit price \$ _____

Total price \$ _____
(9000)

+/- 1,700 Universal Recycle Containers – Black with Green lids (65 Gallon)

Unit price \$ _____

Total price \$ _____
(1,700)

TOTAL OF BID:

\$ _____

TRADE – INS:

Two (2) 1994 White Auto Cars w/Leach 25 yd bodies-
VIN; 4V25CBRF4RR513454; 4V25CBRF5RR512989

One (1) 1998 Crane Carrier w/ Leach 25 yd body and plow
VIN; 1CYCCG489WTU43464

LESS TRADE IN:

\$ _____

GRAND TOTAL

\$ _____

GRAND TOTAL OF BID IN WORDS: _____

One Hundred percent (100%) of contract price will be required at time of final inspection, signed acceptance, delivery and training on the completed refuse trucks and universal containers.

BID GUARANTEE

Accompanying this proposal is a Bid Guarantee, in the form of a Bid Bond or a Certified or Cashier's Check payable to the order of the

TOWNSHIP OF OCEAN

In the sum of _____dollars (\$_____)

Which the undersigned agrees is to be forfeited as liquidated damages, and not as a penalty. If the contract is awarded to the undersigned and the undersigned shall fail to execute the contract for a project or furnish the bonds required within the stipulated time; otherwise the check will be returned to the Undersigned.

COMPANY _____

SIGNATURE _____

TITLE _____
(SEAL)

Witness

ATTACHED BID BOND

STOCKHOLDER DISCLOSURE CERTIFICATION
This Statement Shall Be Included with Bid Submission

Name of Business _____

Chapter 33 of the Public Laws of 1977 (NJS 52:25-24.2 et seq.) provides that no Corporation or Partnership shall be awarded any contract by the State, County, Municipal or School District, or any subsidiary or agency thereof, unless prior to the receipt of the bid corporation or partnership, there is submitted to the public contracting unit a statement setting forth the names and address of all individuals who own ten percent (10%) or more of the stock or interest in the corporation or partnership.

I certify that the list below contains the names and home addresses of all stockholders holding 10% or more of the issued and outstanding stock of the undersigned **OR**

I certify that no one stockholder owns 10% or more of the issued and outstanding stock of the undersigned.

Check the box that represents the type of business organization:

- | | | |
|---|--|--|
| <input type="checkbox"/> Partnership | <input type="checkbox"/> Corporation | <input type="checkbox"/> Sole Proprietorship |
| <input type="checkbox"/> Limited Partnership | <input type="checkbox"/> Limited Liability Corporation | <input type="checkbox"/> Limited Liability Partnership |
| <input type="checkbox"/> Subchapter S Corporation | | |

Sign and notarize the form below, and, if necessary, complete the stockholder list below.

STOCKHOLDERS:

NAME: _____ NAME: _____

HOME ADDRESS: _____ HOME ADDRESS: _____

NAME: _____ NAME: _____

HOME ADDRESS: _____ HOME ADDRESS: _____

THIS

STATEMENT SHALL BE INCLUDED WITH BID SUBMISSION

Subscribed and Sworn to before me

this _____ day of _____, 200__

State of _____ County of _____

Notary Public/Seal/Commission expires on _____

(Name of Business)

(Affiliate)

(Corporate Seal)

BIDDER QUALIFICATION FORM
(N.J.S.A. 40A:11-20)

Project known as _____

Name of Prospective Bidder _____

Address _____

Phone Number _____ Date _____

1) How many years has your organization been in business under your present name?

2) Have you ever failed to complete any work awarded you? Yes _____ No _____
If yes, State where and reasons why.

3) Has any officer or partner of your organization ever failed to complete a contract handled in his own name? Yes _____ No _____

4) Have any liens or lawsuits of any kind been filed against any of your contracts?
Yes _____ No _____ Give full details _____

5) List Surety Companies which have heretofore bonded you (name, address & amount of bond).

6) List all contracts which you are now performing or for which you have signed contracts, but not started work (owners name, location and amounts).

7) State all equipment owned by you for use in this contract.

8) Additional remarks:

9) Provide the names, address and phone number for references for the three (3) projects listed above:

Signature of bidder's authorized representative: _____

Title: _____

Witness _____

Date: _____

(seal)

NON-COLLUSION AFFIDAVIT

STATE OF NEW JERSEY

COUNTY OF _____

ss:

I, _____ of the Municipality of _____
(Print Name)

in the County of _____ and the State of _____ am of full age, being duly sworn according to law on my oath depose and say that:

I, am _____ of the firm of _____
(Print Title) (Print Name of Firm)

the bidder making the Proposal for the above named Project, and that I executed the said Proposal with full authority to do so: That said bidder has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above named project; and further agree that I will not so participate in any collusion, violate the terms of the specifications, and, in particular, paragraph II E 1, and that all statements contained in said Proposal and in this affidavit are true and correct, and made with full knowledge that the Township of Ocean relies upon the truth of the statements contained in said Proposal and in the statements contained in this affidavit in awarding the contract for the said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contact upon and agreement or understanding for a commission, percentage, brokerage or contingent fee except bona fide employees or bona fide established commercial or selling agencies maintained by:

(Name of Contractor) : (N.J.S.A. 52:34-15)

Witness

Authorized Signature

Subscribed and Sworn to before me

this ___ day of _____, 200__

(Print Name and Title)

State of _____

County of _____

(SEAL)

Signature of Notary Public
My Commission Expires on _____
(SEAL)

EXHIBIT A

MANDATORY EQUAL OPPORTUNITY EMPLOYMENT LANGUAGE (N.J.S.A. 10.5-31 et seq.) (N.J.A.C. 17:27)

GOODS, SERVICES AND PROFESSIONAL CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. The contractor will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training; including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Contracting Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation.

The contractor or subcontractor, where applicable, will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees or applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with the regulations promulgated by the Treasurer pursuant to P.L.1975, c. 127, as amended and supplemented from time to time and with the Americans with Disabilities Act.

The contractor or subcontractor agrees to attempt in good faith to employ minority and female workers consistent with the applicable county employment goals prescribed by N.J.A.C. 17:27-5.2; promulgated by the Treasurer pursuant to P.L.1975, c. 127, as amended and supplemented from time to time or in accordance with a binding determination of the applicable county employment goals determined by the Div. of Contract Compliance & EEO pursuant to N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L.1975, c. 127, as amended and supplemented from time to time.

The contractor or subcontractor agrees to inform in writing appropriate recruitment agencies in the area, including employment agencies, placement bureaus, colleges, universities, labor unions, that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the* statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

The contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading, and layoff to ensure that all such actions are taken without regard to age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation and conform with the applicable employment goals, consistent with the statutes and court decisions of the State of New Jersey and applicable Federal law and applicable Federal court decisions.

The contractor and its subcontractors shall furnish such reports or other documents to the Affirmative Action Office as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Div. of Contract Compliance & EEO for conducting a compliance investigation pursuant to **Subchapter 10 of the Administrative Code (N.J.A.C. 17:27)**.

PROCUREMENT AND SERVICE CONTRACTS

LANGUAGE "A"

In the event that you or your firm is awarded this contract, our office, upon award, will send the necessary additional forms. These should be submitted within seven (7) working days of notification. (Bidders are required to comply with the requirements of N.J.S.A. 10:5-31 et seq., codified at N.J.A.C. 17:27-1.1 et seq.)

1. Does this contract have the potential of having a dollar value of \$17,500 or more?

- ___ Yes (If yes, complete #2)
___ No (If no, no further documentation is required)

2. Does your company have a Federal Affirmative Action Plan Approval Letter?

- ___ Yes (If yes, submit a Photostat copy)
___ No (If no, complete "A" below)

A. Does your company have a Certificate of Employee Information Report?

- ___ Yes (If yes, submit a Photostat copy)
___ No (If no, complete "B" below)

B. If you do not have either of the above-mentioned documents, an Affirmative Action Employee Information Report form (AA-302) will be returned to you for your completion.

3. Each contract over \$17,500 must also contain Language "A".

4. Are you a minority-owned business?

- ___ Yes ___ No

All successful vendors must submit one of the following forms of evidence:

- 1. Letter of Federal Approval OR 2. Certificate of Employee Information Report.

I certify that the above information is correct to the best of my knowledge.

Name: _____ Title: _____

Signature: _____ Date: _____

Special Note: This questionnaire must be completed, signed and returned with your contract or bid proposal.

AN EQUAL OPPORTUNITY EMPLOYER

INSURANCE SPECIFICATIONS

SCHEDULE A

The Contractor, prior to commencing work, shall provide at its own expense, the following insurance to the **TOWNSHIP** together with evidence of such insurance as stated below. Thirty (30) days prior to cancellation or material change or notice of non-renewal of the policies, the Contractor shall give notice to the **TOWNSHIP** by registered mail, return receipt requested, for all of the following stated insurance policies. The Certificate of Insurance shall state:

“Should any of the above described policies be cancelled before the expiration date thereof, the issuing company will mail thirty (30) days written notice to the certificate holder named to the left.”

All notices shall name the Contractor and identify the Agreement. All policies with the exception of workers' compensation shall be endorsed naming the **TOWNSHIP** as additional insured. All policies shall require that the insured will pay all defense claims and any judgments entered therein. It is expected that all policies will be issued on an “occurrence” basis. The **TOWNSHIP** may waive or modify any requirement stated herein if the **TOWNSHIP**, in its sole judgment and discretion, deems it would be in its best interest to do so.

A. Workers' Compensation

The Contractor shall obtain Standard Workers' Compensation Insurance indemnifying the Contractor against any loss arising from liability or injuries sustained by any and all agents, servants or employees of the Contractor who shall be entitled to compensation under the Workers' Compensation Law of the State of New Jersey. If the contractor is incorporated outside the State of New Jersey, the said policy must include the “the Other States Endorsement.”

B. General Liability

The Contractor shall obtain General Liability Insurance on an “occurrence” form with a one million dollar (\$1,000,000.00) combined single limit of liability per occurrence and a three million dollar (\$3,000,000.00) annual aggregate. The policy will include the ISO Simplified Occurrence Form, the policy will contain no endorsements that would limit or eliminate the coverage provided by the ISO version and will include ISO Form CG-25-03-11-85 Amendment-Aggregate Limits of Insurance (per project).

C. Automobile Liability

The Contractor shall obtain Automobile Liability Insurance with a minimum combined limit of liability of one million dollars (\$1,000,000.00) per accident. Said policy must include coverage for owned, non-owned and hired autos.

D. Umbrella/Excess Liability

Excess or Umbrella Liability Policy (to respond in excess of the commercial general liability, employer's liability and commercial automobile liability policies) at the limit of \$5,000,000.00 combined single limits per occurrence.

E. Policy Changes

If at any time, any of the foregoing policies shall be or become unsatisfactory to the Entity, as to form or substance, or if a company issuing any such policy shall be or become unsatisfactory to the Entity, the Contractor shall, upon notice to that effect from the Entity, within thirty (30) days obtain a new policy, submit the same to the Entity of approval and submit a Certificate thereof as hereinabove provided. Upon failure of the Contractor to furnish, deliver and maintain such insurance as above provided, this Agreement, at the election of the Entity, may be forthwith declared suspended, discontinued or terminated. Failure of the Contractor to take out an/or maintain or the taking out and/or maintenance of any required insurance, shall not relieve the Contractor or any liability under the Agreement. All policies required above shall contain a thirty-(30) day notice of cancellation and/or non-renewal and shall require the insured to notify the Entity of its intent to either cancel or not to renew immediately.

F. Insurance Companies

The Contractor shall use an Insurance Company(ies) that has (have) an A.M. Best Rating of at least AX.

The **TOWNSHIP**, at its sole judgment and discretion, if it considers it appropriate to do so, may allow the Contractor to utilize and insure with a rating less than AX. All such requests must be forwarded to the **TOWNSHIP** for its review and approval. The Contractor shall use an insurance company(ies) that is (that are) authorized to underwrite insurance risks for the specific line(s) of coverage by the Department of Banking and Insurance of the State of New Jersey.

G. Hold Harmless Provision

Contractual Liability Insurance: The Contractor shall indemnify, defend, and hold harmless the **TOWNSHIP**, its consultants, its officers, agents, contractors, subcontractors, servants and employees, from and against any and all claims, demands, suits, proceedings, liabilities, judgments, awards, losses, damages, costs and expenses, including attorney's fees, because of bodily injury, sickness, disease or death, sustained by any person or persons or injury or damages to, or destruction of, any property directly or indirectly arising out of, relating to, or in connection with the work, whether or not due or claimed to be due, in whole or in part, to the active, passive or concurrent negligence or fault of the Contractor, its officers, agents, servants, or employees and/or any other person or persons and whether or not such claims, demands, suits or proceedings are just, unjust, groundless, false, or fraudulent. The Contractor shall furnish evidence to the **TOWNSHIP** that with respect to accomplishing the work in the Agreement, it carries said contractual Liability Insurance in the amounts specified in Paragraph B above.

LIST OF SUBCONTRACTORS

NJSA 40A:11-16 provides that bidders on public projects shall provide “the name or names of all subcontractors to whom the bidder will subcontract with, each of which subcontractors shall be qualified in accordance with this act.”

The bidder to provide the name, address and description of work to be performed by all subcontractors.

Name of bidder: _____

Address: _____

The undersigned bidder declares that the subcontractors listed below be used as subcontractors to complete certain portions of the work in this project.

The subcontractors identification form shall set for the scope of work for which the subcontractor has submitted a price quote and which the bidder has agreed to award to each subcontractor should the Bidder be awarded the contract.

Subcontractor Name and Address	Nature of Work to be completed by Subcontractor

Attach additional sheets if necessary

Signature of Bidder’s Authorized Representative: _____

Title: _____

Date: _____

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BIDDER REFERENCE SHEET

1. Name and address of all previous locations where said service has been performed.

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

2. Name, address and telephone number of the principal party to whom you or your firm were responsible for the satisfactory performance of this service.

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

Name of Person preparing Proposal

Signature

Telephone #

Date

