

# TOWN OF SCARBOROUGH



## INVITATION TO BID NUMBER 042010

### **RETURN THIS BID TO:**

Attention: Keith Matherne/ITB #042010  
PO Box 360  
259 US Route One  
Scarborough, ME 04070-0360

THIS IS NOT AN ORDER

DATE ITB ISSUED: 07/06/09

ITB TITLE: SIX WHEEL WATERLESS HIGH DUMP BROOM STREET SWEEPER WITH BELT CONVEYOR AND REGENERATIVE AIR

SEALED BIDS MUST BE SUBMITTED TO THE PURCHASING AGENT, TOWN CLERK'S OFFICE, OR DELIVERED TO THE OPENING LOCATION AND MUST BE TIME AND DATE STAMPED BY THE PURCHASING AGENT OR HIS DESIGNEE PRIOR TO THE BID OPENING ON JULY 23<sup>RD</sup>, 2009 AT 11:00AM AT WHICH TIME THEY WILL BE PUBLICLY OPENED.

**OPENING LOCATION:** TOWN OF SCARBOROUGH, TOWN HALL, LOCATED AT 259 US ROUTE ONE SCARBOROUGH, ME 04074 IN THE TOWN MANAGER'S CONFERENCE ROOM, MAIN LEVEL.  
**F.O.B. POINT IF MAILED: FINAL DESTINATION**

**EMAILED AND/OR FAXED BIDS WILL NOT BE ACCEPTED.**

**LATE BIDS WILL NOT BE ACCEPTED.**

**ALL QUESTIONS REGARDING THIS ITB SHOULD BE DIRECTED IN WRITING TO KEITH MATHERNE, PURCHASING AGENT, AT (207) 730 4167 (FAX) OR [KMATHERN@CI.SCARBOROUGH.ME.US](mailto:KMATHERN@CI.SCARBOROUGH.ME.US).**

**THE PREFERRED METHOD IS VIA EMAIL.**

**IMPORTANT NOTICE:** IF YOU RECEIVED THIS SOLICITATION FROM THE TOWN'S WEB SITE, YOU MUST REGISTER WITH THE PURCHASING OFFICE TO RECEIVE SUBSEQUENT AMENDMENTS.

KEITH L. MATHERNE  
PURCHASING AGENT

**\*THIS PAGE MUST BE INCLUDED WITH ANY ALTERNATE PROPOSAL(S) NOTED CLEARLY\***

**CONTRACT INTENT:** This Invitation to Bid (ITB) is intended to result in the purchase of **ONE (1) SIX WHEEL WATERLESS HIGH DUMP BROOM STREET SWEEPER WITH BELT CONVEYOR AND REGENERATIVE AIR** as specified for the Town of Scarborough's Department of Public Works (hereinafter referred to as "Town").

**NOTICE OF INTENT TO AWARD:** After the responses to this ITB have been opened and evaluated, a tabulation of the bids will be prepared. It lists the name of each company or person that offered a bid and the price they bid. It may also provide notice of the Town's intent to award a contract(s) to the bidder(s) indicated. A copy of the Bid Tabulation will be mailed to each company or person who responded to the ITB. Bidders identified for award are not to proceed until a Purchase Order, Contract Award, Lease, or some other form of written notice is given by the Purchasing Agent. A company or person who proceeds prior to receiving a Purchase Order, Contract Award, Lease, or some other form of written notice from the Purchasing Agent does so without a contract and at their own risk.

**PAYMENT FOR TOWN PURCHASES:** Payment for agreements for the undisputed purchase of goods or services provided to the Town, will be made within 30 days of the receipt of a proper billing or the delivery of the goods or services to the location(s) specified in the agreement, whichever is later.

**FEDERAL EXCISE TAX:** The Town is exempt from all Federal Excise Tax.

**STATE SALES TAX:** The Town is exempt from all State of Maine Sales Tax.

**SHIPPING DAMAGE:** The Town will not accept or pay for damaged goods. The contractor must file all claims against the carrier(s) for damages incurred to items in transit from the point of origin to the ultimate destination within the Town of Scarborough. The Town will provide the contractor with written notice when damaged goods are received. The Town may choose to deduct the cost of the damaged goods from the invoice prior to payment. The contractor must file all claims against the carrier(s) for reimbursement of the loss.

**INDEMNIFICATION:** The contractor shall indemnify, hold harmless, and defend the Town from and against any claim of, or liability for error, omission or negligent act of the contractor under this agreement. The contractor shall not be required to indemnify the Town for a claim of, or liability for, the independent negligence of the Town. If there is a claim of, or liability for, the joint negligent error or omission of the contractor and the independent negligence of the Town, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "Town", as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Town's selection, administration, monitoring, or controlling of the contractor and in approving or accepting the contractor's work.

**INSURANCE:** Without limiting contractor's indemnification, it is agreed that contractor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the contractor's policy contains higher limits, the Town shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance and copies of the actual policies must be furnished to the Purchasing Agent prior to beginning work and must provide for a 30-day prior notice of

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cancellation, non-renewal or material change of conditions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the contractor's services.

**Proof of insurance is required for the following:**

The contractor shall furnish proof of adequate insurance coverage of the types, and to the limits, specified below. Certificates of such insurance and copies of the actual policies shall be filed with the Purchasing Agent within five (5) days following notification of the Bid Award.

**WORKERS COMPENSATION:**

The Contractor shall purchase and maintain during the life of this Contract Workers Compensation Insurance for all employees employed in the course of performing services under this Contract as awarded pursuant to these Specifications; and in case any work is sublet, the Contractor shall require the Sub-Contractor to similarly provide Worker's Compensation Insurance for all of the latter's employees, unless such employees are covered by the protection afforded the Contractor. All coverage shall be in accordance with State of Maine laws in effect and the requirements of the Workers Compensation Board.

**LIABILITY INSURANCE:**

The Contractor shall carry and maintain, until final written acceptance of the work by the town, insurance as specified below and in such form as shall protect the Town of Scarborough and its employees and officials from all claims and liability for damages and bodily injury including accidental death and for property damage which may arise from operations under this Contract. Except as otherwise stated, the amounts of such insurance shall be for each policy not less than:

1. For liability, for bodily injury, including accidental death \$400,000 on account of one occurrence and \$400,000 aggregate limit.
2. For liability for property damage \$400,000 on account of any one occurrence and \$400,000 aggregate limit.
3. All policies shall be so written that the Purchasing Agent's office of the Town of Scarborough will be notified of cancellation or restrictive amendment at least thirty (30) days prior to the effective date of such cancellation or amendment. Certificates of Insurance and copies of actual policies from the Contractor's insurance carrier shall be filed with the Town before operations may begin. Certificates shall make no claims against the Town of Scarborough or its officers for any injury to any of his officers or employees for damage to his trucks or equipment arising out of work contemplated by this Contract.

**AUTOMOTIVE LIABILITY INSURANCE:**

Automotive Liability Insurance with a minimum limit of liability for bodily injury, property damage or death in the amount of \$400,000 for each occurrence

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Failure to supply satisfactory proof of insurance within the time required will cause the Town to declare the bidder non-responsive and to reject the bid.

**BRAND AND MODEL OFFERED:** Specifications may contain certain brand names that may or may not be proprietary. Bidders are encouraged to propose their company's approved alternate to such items and list them accordingly. The Town will **not** disqualify a bid if it offers items not specific but meet minimum requirements to the Town's Bid Specifications.

**ANNOTATED LITERATURE:** Bidders must annotate their product literature to identify for the Town the location of the supporting information regarding each product specification set out in this ITB.

**SUPPORTING INFORMATION:** The Town strongly desires that bidders submit all required technical, specification, and other supporting information with their bid, so that a detailed analysis and determination can be made, by the Purchasing Agent that the product offered meets the ITB specifications and that other requirements of the ITB have been met. However, provided a bid meets the requirements for a definite, firm, unqualified, and unconditional offer, the Town reserves the right to request supplemental information from the bidder, after the bids have been opened, to ensure that the products offered completely meet the ITB requirements. The requirement for such supplemental information will be at the reasonable discretion of the Town and may include the requirement that a bidder will provide a sample product(s) so that the Town can make a first-hand examination and determination.

**FIRM, UNQUALIFIED AND UNCONDITIONAL OFFER:** Bidders must provide enough information with their bid to constitute a definite, firm, unqualified and unconditional offer. To be responsive a bid must constitute a definite, firm, unqualified and unconditional offer to meet all of the material terms of the ITB. Material terms are those that could affect the price, quantity, quality, or delivery. Also included as material terms are those which are clearly identified in the ITB and which, for reasons of policy, must be complied with at risk of bid rejection for non-responsiveness.

**NEW EQUIPMENT:** Equipment offered in response to this ITB must be new equipment. New equipment means equipment that is currently in production by the manufacturer and is still the latest model, edition or version generally offered. The equipment must be warranted as new by the manufacturer and may not have been used for any purpose, other than display (not demonstration), prior to its sale to the Town. The Town will not accept remanufactured, used, or reconditioned equipment. It is the contractor's responsibility to ensure that each piece of equipment delivered to the Town complies with this requirement. A contractor's failure to comply with this requirement will cause the Town to seek remedies under breach of contract. ***The Equipment offered must have been for sale to the general public for a period of not less than five years.***

**ACCESSORIES:** When accessories are supplied, they must be certified to be compatible with the rest of the equipment. Certification will be written evidence satisfactory to the Town that the accessories are compatible. The bidder's failure to supply this evidence within the time required by the Town will cause the Town to consider the bid non-responsive and reject the bid.

**INSPECTION:** Equipment offered will be subject to inspection and approval by the Town prior to payment. The equipment and attachments must be in good repair and capable of performing the work for which they were designed.

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**ALTERATIONS:** The awarded bidder must obtain the written approval from the Purchasing Agent prior to making any alterations to the agreed upon specifications (post-award) contained in this ITB or subsequent Contract. The Town will not pay for alterations that are not approved in advance and in writing by the Town.

**DISCONTINUED ITEMS:** In the event an item is discontinued by the manufacturer during the life of the contract, another item may be substituted, provided that the Purchasing Agent makes a written determination that it is equal to or better than the discontinued item and provided that it is sold at the same price or less than the discontinued item.

**ITEM UPGRADES:** The Town reserves the right to accept upgrades to models on the basic contract when the upgrades improve the way the equipment operates or improve the accuracy of the equipment. Such upgraded items must be at the same price as the items in the basic contract.

**DELIVERY:** Indicate, in the space provided under "Bid Schedule", the time required to make delivery after the receipt of an order.

**F.O.B. POINT:** The F.O.B. point for all items purchased under this bid is the final destination within the Town of Scarborough. ***Ownership of and title to the ordered items remains with the contractor until the items have been delivered to their final destination and are accepted by the Town.***

**PARTS BOOKS AND MAINTENANCE MANUALS:** Parts books and maintenance manuals must be provided at the same time that the equipment is delivered, preferably in Electronic Version (CD, PDF, etc.). The cost of the parts books and maintenance manuals is to be included in the bid price of the equipment.

**TRAINING:** With any new piece of equipment the Town requires training from factory-trained personnel for mechanics and operators. In-depth training for trouble-shooting and electrical schematic diagram analysis is required for the mechanics. Training can be provided at our facility, or, with arrangements made, conducted at the vendor's facility.

**CONTINUING OBLIGATION OF CONTRACTOR:** Regardless of the terms and conditions of any third-party financing agreement, the contractor agrees that none of its responsibilities under this contract are transferable and that the contractor alone will continue to be solely responsible until the expiration date of the contract. Such responsibilities include, but are not limited to, the provision of equipment, training, warranty service, maintenance, parts and the provision of consumable supplies. By signature on this ITB the bidder acknowledges this requirement and indicates unconditional acceptance of this continuing obligation clause.

**WORKMANSHIP & MATERIALS:** All work must be performed in a thorough and workmanlike manner and in accordance with current industry practices. The contractor will be held responsible for the quality of the finished item. The Town will reject any item that does not meet the agreed upon specifications of the ITB (post award). Rejected items will be returned to the contractor at the contractor's risk and expense.

**METHOD OF AWARD:** Award will be made to the lowest responsive and responsible bidder as noted below (**EVALUATION CRITERIA**). The Town of Scarborough reserves the right to

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accept or reject any or all bids should it be deemed in the best interest of the Town, waive any minor discrepancies or technicalities and the right to inspect the equipment prior to delivery.

**EVALUATION CRITERIA:** The Town intends to evaluate each bid based on the following specifications. The bid which meets these specifications best will be the lowest, most responsive bid. Alternate proposals to the specifications listed below should be noted so that the Town may make a fair assessment of the bid. **ALTERNATE SPECIFICATIONS WHICH ARE CLEARLY STATED WILL NOT DISQUALIFY A BIDDER.**

**INVOICES:** Invoices must be sent directly to the Town address shown on the individual Purchase Order, Contract Award or Delivery Order. Payment schedule will be determined with the winning bidder. Questions concerning payment must be addressed to the Town of Scarborough's Accounts Payable Department.

**CONTRACT CANCELLATION:** The Town reserves the right to cancel the contract at its convenience by giving written notice to the contractor. The Town is liable only for payment in accordance with the payment provisions of this contract for services or supplies provided before the effective date of termination.

**The Town of Scarborough reserves the right to accept or reject any and all bids when it is deemed in the best interest of the Town.**

**ADDITIONAL INFORMATION:**

**ALL** inquiries or requests concerning this Invitation to Bid shall be made in writing and must be received before the close of business on July 20<sup>th</sup>, 2009 to the Attention of Keith Matherne, Purchasing Agent by fax (207 730-4167) or email to [kmatherne@ci.scarborough.me.us](mailto:kmatherne@ci.scarborough.me.us). The Town is not responsible for oral interpretations given by any Town employee, representative or other.

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<b>SPECIFICATIONS</b>
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**Section A – Chassis**

<b><u>1.0 CHASSIS (2009) GMC T-Series Model TTF042 (Dual) or equal</u></b>	<b>COMPLY</b>	
	<b>Yes</b>	<b>No</b>
1.1 Chassis shall be cab-over-engine design with 33,000 GVW rating. State chassis make, model: _____	_____	_____
1.2 Wheelbase shall be not more than 144 inches.	_____	_____
1.3 Cab to axle 113 inches to accommodate vertical exhaust with Diesel Particulate Filter	_____	_____
1.4 Yield strength of the frame shall be 80,000 PSI minimum steel. Frame rail dimensions shall be 10" high with upper and lower flanges of 3.2" and be fabricated from 5/16" thick steel.	_____	_____
1.5 One- (1) 50-gallon fuel tank shall be shared by both engines and shall be easily accessible without raising or shifting any components. A fuel gauge, in cab, shall be supplied. Sight tube is not acceptable.	_____	_____

<b><u>2.0 CHASSIS ENGINE</u></b>	<b>COMPLY</b>	
	<b>Yes</b>	<b>No</b>
2.1 Truck engine shall be an electronic in line six cylinder turbocharged diesel, with a minimum of 215 Hp @ 2200 RPM, 560 ft-lbs. @ 1450 RPM. Engine must meet EPA <b>09</b> Diesel emission standards	_____	_____
2.2 Truck engine shall be equipped with a single left-hand vertical exhaust system.	_____	_____
2.3 The cooling system shall be protected to -34° F.	_____	_____
2.4 Engine shall be equipped with dual stage dry-type air cleaner with safety element, spin-on fuel filter, full flow oil filter, and fuel/water separator.	_____	_____
2.5 Engine shall be equipped with a 1250 watt block heater.	_____	_____
2.6 Radiator fan shall be viscous drive type.	_____	_____

<b><u>3.0 TRANSMISSION, AXLES, WHEELS &amp; BRAKES</u></b>	<b>COMPLY</b>	
	<b>Yes</b>	<b>No</b>
3.1 An Allison 2500 Series (or approved equal) automatic transmission with oil heavy duty oil cooler shall be provided. An external spin on transmission oil filter is to be included with the Allison transmission.	_____	_____
3.2 The 2-speed rear axle shall have a ratio of 6.14/8.38:1 for proper sweeping speeds.	_____	_____
3.3 The 12,000 lb. front axle shall be equipped with 12,000 lb. Springs and shock absorbers.	_____	_____
3.4 The sweeper shall have a 21,000 lb. rear axle.	_____	_____

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|------|---|-----|-----|
| 3.5  | For safety and to allow the emergency interchange of tires at a job site and front and rear tires and rims shall all be interchangeable.                      | ___ | ___ |
| 3.6  | Tires shall be tubeless radial tires 14 ply 11R22.5 "G" load rated. The rear axle shall include dual tires for load capacity; singles will not be acceptable. | ___ | ___ |
| 3.7  | Rims shall be 10 hole steel hub piloted 22.5 x 8.25.  | ___ | ___ |
| 3.8  | Brakes shall be full air brakes with a 14.2 CFM capacity compressor, and with automatic slack adjusters.  | ___ | ___ |
| 3.9  | Air system shall include a heated air dryer with automatic moisture ejector.  | ___ | ___ |
| 3.10 | Parking brake shall be air activated spring applied to rear wheel.  | ___ | ___ |

**4.0 CAB**

**COMPLY**  
**Yes No**

- |      |  |     |     |
|------|--|-----|-----|
| 4.1  | Maximum visibility, forward line of sight from the chassis front bumper to the point on the ground visible to the operator shall not exceed 8 feet for an SAE 98 <sup>th</sup> percentile size operator.     | ___ | ___ |
| 4.2  | Steering shall be full power with dual operator controls.  | ___ | ___ |
| 4.3  | Each steering column shall have adjustable tilt and telescope. Each column assembly shall be fully independent and shall include separate steering gear boxes, separate drag links and separate pitman arms. | ___ | ___ |
| 4.4  | Seats shall be air adjustable, covered with cloth for air circulation and include 3 point seat belts.  | ___ | ___ |
| 4.5  | Sweeper shall include two (2) heated outside west coast type mirrors with lower 8 inch convex lens for easy viewing of the side broom during sweeping.   | ___ | ___ |
| 4.6  | To maximize operator visibility of the curb and sweeping gear, outside mirrors shall be mounted forward of the front wheels.   | ___ | ___ |
| 4.7  | Hydraulic functions shall be controlled by rocker switches located in the cab mounted control panel.   | ___ | ___ |
| 4.8  | For safety during night sweeping, switches shall be illuminated so that they can be readily identified without the use of the cab dome light.  | ___ | ___ |
| 4.9  | Switches shall be clearly identified by name and symbol.   | ___ | ___ |
| 4.10 | Cab interior environment shall be fully air-conditioned including a fresh air heater/ventilator/defroster.   | ___ | ___ |
| 4.11 | Cab shall have full flow through ventilation for optimal temperature control and operator comfort.   | ___ | ___ |
| 4.12 | Windshield wiper shall be electric two speeds with washer.   | ___ | ___ |
| 4.13 | Wipers shall have intermittent feature.  | ___ | ___ |
| 4.14 | Interior of cab shall have acoustical insulation for low operating noise to meet OSHA regulatory standards, automotive type trim, and center sweeper console.  | ___ | ___ |

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|------|---|-----|-----|
| 4.15 | Dash shall be faced with soft molded plastic.           | ___ | ___ |
| 4.16 | All glass shall be tinted safety glass.                 | ___ | ___ |
| 4.17 | Each operator position shall have adjustable sun visor. | ___ | ___ |
| 4.18 | Doors shall be key locked.                              | ___ | ___ |
| 4.19 | Door windows shall be roll down type.                   | ___ | ___ |
| 4.20 | Side windows shall have defogger.                       | ___ | ___ |

**5.0 INSTRUMENTS**

**COMPLY**  
**Yes No**

- |     |  |     |     |
|-----|--|-----|-----|
| 5.1 | Chassis left side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, fuel gauge, water temperature gauge, air pressure gauge, and volt gauge.                                    | ___ | ___ |
| 5.2 | Chassis right side operator instrument panel shall be full vision illuminated with tachometer, speedometer, odometer, trip odometer, fuel gauge, water temperature gauge, air pressure gauge, and volt gauge.  | ___ | ___ |
| 5.3 | Chassis gauges shall include speedometer, odometer, coolant temperature, tachometer, voltmeter, oil pressure, fuel level and air pressure.   | ___ | ___ |
| 5.4 | Chassis engine instruments shall include warning light and chime for low coolant level and high coolant temperature to warn the operator of a potential problem before any damage to the engine occurs. Console shall have left/right primary driver switch. | ___ | ___ |
| 5.5 | Truck instruments shall include warning lights for battery, and cab latch to make sure the cab is locked in position.  | ___ | ___ |
| 5.6 | Sweeper engine instruments shall include tachometer, hour meter, oil pressure, fuel, voltage, and coolant temperature for complete information for the operator on the condition of the auxiliary engine.  | ___ | ___ |
| 5.7 | Instruments shall include an auxiliary engine air intake restriction indicator mounted in the fixed console, for ease of maintenance, and a hopper "full load" indicator to notify the operator that the chassis is fully loaded.                            | ___ | ___ |
| 5.8 | Dash, all console switches including transmission controls and all gauges shall be illuminated.  | ___ | ___ |

**6.0 ELECTRICAL**

**COMPLY**  
**Yes No**

- |     |   |     |     |
|-----|---|-----|-----|
| 6.1 | Batteries should be located in an enclosed accessible environment for long life and ease of service.  | ___ | ___ |
| 6.2 | Chassis shall have two (2) maintenance free batteries rated at not less than 1500 CCA total, 12 volt.   | ___ | ___ |
| 6.3 | Chassis engine shall have a 130 amp. alternator.  | ___ | ___ |
| 6.4 | Chassis lighting shall include sealed multi-beam halogen head-lights, LED stop lights, LED tail lights, LED backup lights, LED license plate lights, LED clearance lights, LED signal lights, illuminated gauges and instrument panel, and LED directional lights with hazard switch. | ___ | ___ |

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		<b>COMPLY</b>	
		<u>Yes</u>	<u>No</u>
<b><u>7.0 OTHER CHASSIS ACCESSORIES</u></b>			
7.1	Front Spray Bar	_____	_____
7.2	Camera, rear with in-cab monitor	_____	_____
7.3	Spare tire and wheel to match existing	_____	_____

**Section B - Sweeper Module**

		<b>COMPLY</b>	
		<u>Yes</u>	<u>No</u>
<b><u>1.0 SWEEPER ENGINE Waterless</u></b>			
1.1	Diesel engine shall have 4 cylinders.	_____	_____
1.2	Horsepower rating shall be not less than 99 HP @ 2500 RPM, torque 215 lb-ft @1200 RPM (Deere 4045 or equal).	_____	_____
1.3	Engine shall be equipped with a full flow oil filter, heavy-duty dry element air cleaner with safety element, fuel filter, and fuel/water separator.	_____	_____
1.4	Engine shall utilize a dedicated battery with no less than 950 CCA.	_____	_____
1.5	Engine shall be protected by a 50/50 mixture anti-freeze/water for cold weather storage and or operation.	_____	_____
1.6	Engine shall utilize a dedicated alternator with no less than 120 amps.	_____	_____
1.7	Engine, radiator and all auxiliary engine driven devices shall be resilient mounted through a dedicated engine frame.	_____	_____
1.8	Engine shall be equipped with a cab mounted filter restriction indicator.	_____	_____
1.9	Auxiliary engine shall incorporate an auto shutdown system and block heater.	_____	_____

		<b>COMPLY</b>	
		<u>Yes</u>	<u>No</u>
<b><u>2.0 SIDE BROOMS</u></b>			
2.1	Each side broom shall be driven by a hydraulic motor directly mounted to the broom disc plate. They shall be the	_____	_____

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vertical digger type, trailing arm design.

- 2.2 Side brooms shall be 42-inch diameter minimum, protruding not less than 13 in. beyond the outside of the tire of the chassis while sweeping. \_\_\_ \_\_\_
- 2.3 To hold broom pattern regardless of up and down motion, arm suspension design shall be the parallelogram type. \_\_\_ \_\_\_
- 2.4 Broom down pressure shall be adjustable by the operator from the cab while moving or stationary. \_\_\_ \_\_\_
- 2.5 Broom shall consist of five (5) plastic segments, filled with 26 inch long tempered steel wire. \_\_\_ \_\_\_
- 2.6 To provide flexibility for varying sweeping conditions, broom speed shall be variable, 90 RPM to 160 RPM, by the operator from the cab while moving. \_\_\_ \_\_\_
- 2.7 Broom rotation, forward or reverse, shall be selectable without leaving the cab. \_\_\_ \_\_\_
- 2.8 Each broom shall have a worklight for night operation. \_\_\_ \_\_\_
- 2.9 Broom rotation shall stop and raise automatically, when transmission is placed into reverse or when the sweeper is put in transport mode or stationary. \_\_\_ \_\_\_
- 2.10 Broom shall be enclosed in housing as an integral part of waterless sweep system. \_\_\_ \_\_\_
- 2.11 Broom angle -right hand side, shall be adjustable from in side the cab and level gauge shall be part of the instrument panel. \_\_\_ \_\_\_

**3.0 MAIN BROOM**

**COMPLY**  
**Yes No**

- 3.1 The main broom shall be not less than 60 inches long and not less than 35 inches in diameter. \_\_\_ \_\_\_
- 3.2 Broom shall be driven by a hydraulic motor directly mounted to the broom core. \_\_\_ \_\_\_
- 3.3 To provide flexibility for varying sweeping conditions, broom speed shall be variable, 80 RPM to 140 RPM, by operator from cab while moving. \_\_\_ \_\_\_
- 3.4 Main broom down pressure shall be adjustable by the operator from the cab while moving. \_\_\_ \_\_\_
- 3.5 Main broom shall be prefab disposable type, filled with polypropylene. \_\_\_ \_\_\_
- 3.6 Main broom shall be double wrapped at both ends. \_\_\_ \_\_\_
- 3.7 Sweeping path shall be not less than 10 feet wide with right and left side broom activated. \_\_\_ \_\_\_
- 3.8 For safety, main broom shall automatically stop and raise when transmission is placed in reverse. \_\_\_ \_\_\_
- 3.9 Shall be equipped with a steel main broom hood to only prevent material from being over thrown into following \_\_\_ \_\_\_

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traffic and also be capable of channeling over throw back into the dirt chamber.

- 3.10 Main broom shall have a work light. \_\_\_ \_\_\_
- 3.11 Main broom shall be pneumatically raised and lowered. \_\_\_ \_\_\_
- 3.12 Broom shall be enclosed in housing as an integral part of waterless sweep system. \_\_\_ \_\_\_

**4.0 CONVEYOR**

**COMPLY**  
**Yes No**

- 4.1 Conveyor shall be able to load hopper to 100% of rated useable capacity. \_\_\_ \_\_\_
- 4.2 Conveyor rotation, forward or reverse, shall be selectable rotation without leaving the cab. \_\_\_ \_\_\_
- 4.3 Conveyor shall be high strength belt type with molded in full width cleats. Elevator with rubber squeegee type flights is not acceptable. \_\_\_ \_\_\_
- 4.4 Conveyor speed shall be variable from the cab. \_\_\_ \_\_\_
- 4.5 Conveyor shall be reversible in direction without stopping or reversing any broom. \_\_\_ \_\_\_
- 4.6 Conveyor shall be capable of effectively sweeping debris of varying sizes (from large bulky trash 9 inches in height to fine sand) without the need to make any adjustments to the conveyor system. \_\_\_ \_\_\_
- 4.7 To provide proper clearance, the lower portion of the conveyor shall be capable of raising 9 inches while sweeping. \_\_\_ \_\_\_
- 4.8 To reduce wear on all conveyance components, a conveyor belt having molded cleats must carry, not drag, debris to the hopper. \_\_\_ \_\_\_
- 4.9 For safety, conveyor shall automatically stop and raise when transmission is placed in reverse or when the sweeper is put in transport mode. \_\_\_ \_\_\_

**5.0 HOPPER**

**COMPLY**  
**Yes No**

- 5.1 For safety, the hopper shall be right side dumping, allowing an operator to observe the dump target and surrounding area at all times from the cab, without the use of mirrors. \_\_\_ \_\_\_
- 5.2 Hopper shall be constructed of 7 gauge steel floor and 11 gauge steel door, top and sides. \_\_\_ \_\_\_
- 5.3 Hopper volumetric capacity shall be not less than 4.5 cubic yards. Useable capacity not less than 3.3 yards. A hopper inspection door shall be supplied with proper access steps with grab handles. \_\_\_ \_\_\_
- 5.4 Hopper shall dump at varying heights ranging from 38 inches through a height of 10 feet as measured at the lowest point under the open hopper chute. Fixed height dump systems are not acceptable. \_\_\_ \_\_\_
- 5.5 Hopper shall be able to tilt (dump) to an angle not less than 50 degrees to ensure complete removal of all debris. \_\_\_ \_\_\_

**\*THIS PAGE MUST BE INCLUDED WITH ANY ALTERNATE PROPOSAL(S) NOTED CLEARLY\***

5.6	Lift mechanism shall be double stage, scissors lift system utilizing two hydraulic cylinders with a bore of not less than 3.5 inches and a stroke of not less than 33.5 inches.	___	___
5.7	Lift capacity shall be not less than 11,000 lbs.	___	___
5.8	Hopper dump mechanism shall utilize two hydraulic cylinders with a bore of not less than 3.5 inches and a stroke of not less than 19.8 inches.	___	___
5.9	Maximum time for full height lift and dump cycle shall not exceed 70 seconds.	___	___
5.10	Hopper to hydraulically side shift toward hopper receptacle not less than 11 inches for dumping efficiency. When dumping hopper, the minimum clearance required between sweeper and debris receptacle shall not be less than 28 inches.	___	___
5.11	Hopper load shall be visible at all times from the cab through a front facing hopper window and an upward facing skylight.	___	___
5.12	To prevent over-loading beyond Manufacturer's GVW rating, cab shall have a full load warning indicator light activated by hopper weight.	___	___
5.13	To extend wear life, all scissors lift joints shall be self lubricating bronze bearings.	___	___
5.14	For safety, apparatus shall have an interlock to prevent dumping hopper without engaging the park brake.	___	___
5.15	For safety, cab shall have an "UNLEVEL GRADE" indicator.	___	___
5.16	Sweeper shall not require jack stands and/or outriggers to stabilize chassis during dumping cycle. Units requiring this stabilization are not acceptable.	___	___

**6.0 SPRAY WATER SYSTEM AND DUST CONTROL SYSTEM**

**COMPLY**  
**Yes No**

6.1	Tank capacity shall be not less than 315 U.S. gallons.	___	___
6.2	Tank shall be constructed of non-rusting material.	___	___
6.3	Pump shall be centrifugal type capable of running dry indefinitely without damage.	___	___
6.4	Water pump shall be capable of providing 80 PSI and allowing full compliance with SCAQMD rule 1186 while using only the wet portion of the dust control system.	___	___
6.5	Water system shall be equipped with 3 brass spray nozzles on each side broom, four brass spray nozzles on a rear spray bar and a front spray bar	___	___
6.6	Water to each area, side broom left or right or rear spray bar shall be controlled in the cab by electrical activation switches. Water flow control valves shall be non-ferrous heavy-duty "agricultural" type.	___	___
6.7	A low water indicator light shall be located within the cab.	___	___

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- 6.8 Sweeper shall be equipped with an automatic internal hopper/conveyor flush and wash down system. System shall include a manual bypass valve to divert hydrant water into system without necessitating filling of water tank. Bypass valve shall be located on the curb side of the vehicle. \_\_\_ \_\_\_
- 6.9 Water fill hose shall be not less than 16 feet 8 inches in length, equipped with 2-1/2 inch NST hydrant coupler. \_\_\_ \_\_\_
- 6.10 A 25 foot. washdown hose shall be provided. \_\_\_ \_\_\_
- 6.11 To prevent the contamination of the water supply, tank shall be equipped with an anti-siphon device Compliant to American National Standard Air gaps in plumbing systems ASME A112.12-1991. \_\_\_ \_\_\_
- 6.12 The dry dust control system shall operate effectively at all recommended sweeping speeds including 0 mph and meet PM10 air quality standards. The dry dust control system shall allow the same sweep quality and main and side broom contact as the wet dust control system. \_\_\_ \_\_\_
- 6.13 The sweeper must be certified under SCAQMD Rule 1186 for waterless operation and provide dry dust control for all brooms, including the gutter brooms. \_\_\_ \_\_\_
- 6.14 The dry dust control system shall utilize an envelope style cleanable filter that is not integral to the hopper and cleanable from in-side the cab. \_\_\_ \_\_\_
- 6.15 The dry dust control system shall utilize dust control curtains on the sidebrooms and mainbroom that entrain fugitive dust while not preventing adequate curb contact and light material sweep efficiency. \_\_\_ \_\_\_
- 6.16 Fugitive dust shall be entrained and removed by a single centrifugal fan. \_\_\_ \_\_\_

**7.0 HYDRAULIC SYSTEM**

**COMPLY**  
**Yes No**

- 7.1 Reservoir capacity shall be not less than 32 gallons with outside level indicator. \_\_\_ \_\_\_
- 7.2 Sweep components shall be three section, directly driven hydraulic pump. \_\_\_ \_\_\_
- 7.3 Dust control fan pump and motor shall be closed loop, piston type, load sensing type system. \_\_\_ \_\_\_
- 7.4 To prevent contamination of the reservoir during the dump cycle, the reservoir vent shall be equipped with 10 micron, spin on filter. \_\_\_ \_\_\_
- 7.5 To prevent the possibility of contamination and the resulting damage to the hydraulic system, return lines for drive shall have a 10-micron full flow filter with bypass. Cab mounted restriction indicator shall light before bypass begins. \_\_\_ \_\_\_
- 7.6 For ease and accuracy of testing, all circuits shall have quick-disconnect check ports. \_\_\_ \_\_\_
- 7.7 To minimize environmental damage caused by leaking fittings, all high pressure fittings shall be flat-face "O" ring type. Other systems shall not be acceptable. \_\_\_ \_\_\_

**8.0 PNEUMATIC SYSTEM**

**COMPLY**  
**Yes No**

- 8.1 The pneumatic system shall have DOT fittings. \_\_\_ \_\_\_
- 8.2 There shall be a PR4 type pressure protector for the chassis air system to protect the chassis air system. \_\_\_ \_\_\_

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- 8.3 A separate air tank for all sweeper air components shall be provided. \_\_\_ \_\_\_
- 8.4 All pneumatic cylinders shall be interchangeable. \_\_\_ \_\_\_
- 8.5 All pneumatic cylinders must be rated to 150 PSI and have a separate rod seal and wiper to prevent contamination entering the cylinder. \_\_\_ \_\_\_

**9.0 ELECTRICAL SYSTEM**

**COMPLY**  
**Yes No**

- 9.1 Sweeper electrical system shall be independent from the chassis electrical system. \_\_\_ \_\_\_
- 9.2 Sweeper shall have a 104 dbl. electronic back-up alarm for additional warning and safety when chassis is in reverse. \_\_\_ \_\_\_
- 9.3 Sweeper lighting shall include rear identification lights, side broom and rear clearance lights. LED lights are required. \_\_\_ \_\_\_
- 9.4 Sweeper wiring harnesses shall be color-coded and hot stamped with appropriate word designation labeled every four inches, i.e. "Ignition", "Side Broom" on each wire. \_\_\_ \_\_\_
- 9.5 For safety, all electrical circuits must be protected by circuit breakers or fuses. \_\_\_ \_\_\_  
  
Wire mount front and rear strobes shall be provided.

**10.0 CONTROLS**

**COMPLY**  
**Yes No**

- 10.1 All sweeper controls shall be mounted on a fixed central console located between the left and right operators position. \_\_\_ \_\_\_
- 10.2 The controls shall include all sweep, hopper, elevator, and lighting functions and shall all be located on the fixed operator control console. \_\_\_ \_\_\_
- 10.3 The controls for sweep, spray water, and lighting functions shall be conventional rocker switches. 'Membrane' or touch pad switches are not acceptable. \_\_\_ \_\_\_

**11.0 SWEEPER INSTRUMENTS**

**COMPLY**  
**Yes No**

- 11.1 Sweeper engine instruments shall include tachometer, hour meter, oil pressure, voltage, auxiliary engine running lamp, coolant temperature, air filter restriction indicator for complete information for the operator on the condition of the auxiliary engine. \_\_\_ \_\_\_
- 11.2 Sweeper instruments shall include a hopper full indicator, right and left side broom down pressure, main broom down pressure, hydraulic filter restriction indicator, sweeper out of level indicator, no spray water indicator, a "raised" hopper indicator and a "full" hopper indicator to notify the operator of hopper conditions. \_\_\_ \_\_\_
- 11.3 The dry dust control system shall monitor the filter pressure drop and indicate in cab when the filters need cleaning. \_\_\_ \_\_\_

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11.4 If the filter is not cleaned to provide adequate airflow through the filter, the vacuum system will automatically limit the vacuum to prevent damage to the filter. \_\_\_\_ \_\_\_\_

**12.0 PAINT**

**COMPLY**  
**Yes No**

12.1 All visible exterior metallic surfaces shall be coated prior to assembly with polyester powder coat. The paint must be a minimum of 2 mils thick. The uses of acrylic enamels and/or polyurethane's are not acceptable. \_\_\_\_ \_\_\_\_

12.2 Color shall be the manufacture's standard color of "White". \_\_\_\_ \_\_\_\_

12.3 Vehicle shall have an accent color of gray on the lower portions of the unit to be powder coated from powder coating chart 2003/N with powder coated gray undercarriage. \_\_\_\_ \_\_\_\_

12.4 An auto lube system for both the sweeper and the chassis shall be provided

**13.0 AUTO LUBE SYSTEM**

**COMPLY**  
**Yes No**

13.1 An Auto Lube System for both the sweeper and the chassis shall be provided \_\_\_\_ \_\_\_\_

**14.0 MANUALS**

**COMPLY**  
**Yes No**

14.1 An operations manual, service manual and parts manual shall be provided and must include the CD versions as well. \_\_\_\_ \_\_\_\_

14.2 A Sweeper Engine operators manual and parts manual and a Chassis service manual shall be provided which must include the CD versions as well. \_\_\_\_ \_\_\_\_

**19.0 SERVICE AND TRAINING**

**COMPLY**  
**Yes No**

19.1 Vendors shall have a full parts and service facility within a reasonable distance from the Town of Scarborough Public Works Garage. State location and distance in space below.  
  
\_\_\_\_\_

19.2 A qualified technician shall provide complete training to Mechanics and Operators at the SPW Garage. Training shall include classroom as well as practical safety, operation, maintenance and service. \_\_\_\_ \_\_\_\_

**20.0 WARRANTY**

**COMPLY**  
**Yes No**

20.1 Manufacturer's warranty shall be not less than one (1) year on entire sweeper, including all parts and labor. \_\_\_\_ \_\_\_\_

20.2 Manufacturer's warranty shall be not less than three (3) years on chassis engine, including all parts and labor \_\_\_\_ \_\_\_\_

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**21.0 QUALITY**

**COMPLY**  
**Yes No**

21.1 Sweeper shall be manufactured by a company with a registered quality standard no less than ISO 9001. Unit must meet the PM10 air quality standards as a minimum. \_\_\_\_\_

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**BID SCHEDULE**

*ALTERNATE BIDS of new and unused equipment that meets or exceeds our specifications are acceptable. The unit must be a current model that has been for sale to the general public for a period of not less than five years.*

**TOTAL FOR ONE 2009 SIX WHEEL WATERLESS HIGH DUMP BROOM STREET SWEEPER WITH BELT CONVEYOR AND REGENERATIVE AIR AS SPECIFIED OR AS PROPOSED BY VENDOR:**

\$ \_\_\_\_\_

**DELIVERY TIME AFTER RECEIPT OF ORDER:**

\_\_\_\_\_

**BODY MAKE:** \_\_\_\_\_ **MODEL:** \_\_\_\_\_

**CHASSIS MAKE:** \_\_\_\_\_ **MODEL:** \_\_\_\_\_

**>>> NOTE: Bid must bear the handwritten signature of a duly authorized Member or employee of the organization making the bid.**

**SIGNED:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**COMPANY:** \_\_\_\_\_  
Corporation, Firm, or Company

**ADDRESS:** \_\_\_\_\_  
Street/PO Box

\_\_\_\_\_  
City State ZIP

**TELEPHONE:**(\_\_\_\_\_) \_\_\_\_\_ **FAX:** (\_\_\_\_\_) \_\_\_\_\_

**EMAIL:** \_\_\_\_\_