

**City of Waterville  
DEPARTMENT OF PUBLIC WORKS  
6 Wentworth Court  
Waterville, Maine 04901-4892**

**TEL (207) 680 - 4744 FAX (207) 877-7532**

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**REQUEST FOR BIDS  
4 TON ASPHALT RECLAIMER UNIT**

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**DATE: March 25, 2015**

**INSTRUCTIONS TO BIDDERS**

1. **GENERAL:** The City of Waterville is accepting bids for a **4 TON ASPHALT RECLAIMER** meeting the specifications accompanying this document.
  
2. **BID SUBMITTAL:** Sealed bids will be accepted by the Office of the Director of Public Works, 6 Wentworth Court, Waterville, Maine 04901 up to and including 11:00 AM local time, Tuesday, April 21, 2015 at which time they will be publicly opened and read. All bids will be placed in a sealed envelope clearly marked "Bid – 4 TON ASPHALT RECLAIMER UNIT" in the center, with the bidder's name and address in the upper left hand corner. Bids not dated and time stamped by the Office of the Director of Public Works prior to the specified date and time stated above will be returned unopened. *Facsimile bids* will only be accepted by arrangement with the Office of the Director of Public Works. *Arrangements may be made by contacting Frederick Dechaine at (207) 680-4746 or by faxing him directly at (207) 877-7532.*
  
3. **WITHDRAWAL OR REVISION OF BID:** A bidder may withdraw or revise a bid after it has been received by the Office of the Director of Public Works, provided the request is made in writing or in person before the time set for bid opening.
  
4. **BID AWARD:** Bid award, if the City determines to award, will be made within thirty (30) calendar days after bid opening, to the lowest responsible bidder whose bid fully complies with the requirements specified contingent upon approval by the City Council. The City reserves the right to reject any and/or all bids without absorbing any liability against the City.
  
5. **EVALUATION OF BIDS:** For purposes of evaluating the bids, in the event of any discrepancies on a proposal between an amount written out in words versus the same amount expressed in numbers, the amount written in words shall govern (if applicable). Similarly, unit prices shall prevail over extended totals. In the event of Additive Bid Items, the "low bid" shall be based upon the least total for the highest combination of bid items which may be awarded within the Control Amount (i.e. a predetermined budget amount to be disclosed at the time of bid opening). In the event that all Base Bids exceed the Control Amount, the "low bid" shall be based solely upon the lowest Base Bid submitted. Bidders shall examine and familiarize themselves with the Specifications and Bid

Documents. The bidder shall in no way be relieved of any obligation to provide the product, service and/or equipment specified through error, mistake or omission.

6. INTERPRETATION OF ADDENDA: It shall be the bidder's responsibility to make inquiry as to any interpretation of the specifications or requirements of the participants. Any changes in the specifications shall be by written addenda.

7. SPECIFIED QUANTITY: One (1) Unit

8. INVOICES AND PAYMENT: Invoices shall be transmitted to the City of Waterville, 1 Common Street, Waterville, Maine 04901-6699. It is the practice of the City of Waterville to pay invoices within thirty (30) days of receipt. The City is exempt from State of Maine Sales Tax.

9. PENALTY CLAUSE: N/A

10. INSURANCE: N/A

11. PERFORMANCE BOND: N/A

12. CANCELLATION: The City reserves the right to cancel any unfulfilled portion of the Contract if, in the opinion of the City, the services or materials supplied are unsatisfactory or are not in compliance with the terms and conditions of the specifications. Cancellation shall be effective following ten (10) calendar days written notice to the Bidder

13. EXCEPTIONS TO SPECIFICATIONS: These instructions to Bidders and General Paragraphs are an integral part of the Specifications for a 4 TON ASPHALT RECLAIMER UNIT and will be binding on the Bidder. Bidders are advised that they shall be bound to the requirements of the Specifications, Instructions to Bidders and General Paragraphs unless exceptions are otherwise clearly noted in the Proposal. Any exceptions shall be considered, however, in determining the most acceptable proposal.

14. INQUIRIES: Any questions concerning this bid request should be directed to Fred Dechaine, Fleet Maintenance Manager, Department of Public Works, 6 Wentworth Court, Waterville, Maine 04901. Telephone inquiries can be made by calling (207) 680 - 4746 between the hours of 7:00 AM & 3:00 PM Monday thru Friday.

15. GENERAL PARAGRAPHS: See attached Bid Specification

# **Specifications**

## **Diesel Fired Patch Heater Trailer**

These minimum specifications are intended to describe a four (4) ton asphalt and transport unit mounted on a tandem axle trailer, capable of reheating cooled hot mix or heating cold mix and reclaimed mix. Equipment must meet all applicable state and federal laws, rules and regulations pertaining to the equipment specified. The unit must be of heavy duty design and capable of continuous severe duty service. Unit shall be capable of being hauled with a full load at highway speed (50-55) MPH.

### **1. Chassis**

- 1.0 Adequate structural steel, with all necessary reinforcements and gussets.
- 1.2 Dual axles of 7,000 pound capacity each with leaf springs.
- 1.3 Tires shall be 8" x 14.5"-12 ply commercial tires, rims to be solid 8-bolt pattern (or approved equal).
- 1.4 A full size spare tire of same brand and style shall be supplied with unit.
- 1.5 Adjustable tow ring 3" pintel eye and 14" of vertical adjustment.
- 1.6 Must have proper alignment with tow vehicle hitch height of (25" to 33").
- 1.7 Two (2) high tensile 3/8" minimum safety chains with slip hooks and safety latches.
- 1.8 The tongue shall be of sufficient length to accommodate dump body overhang, including an apron.
- 1.9 Nose leveling jack adequate to operate under fully loaded conditions.
- 1.10 Electric brakes shall be provided on both axles as well as an emergency safety braking mechanism.
- 1.11 Fenders shall be made of 14 gauge steel and be full length.
- 1.12 Non-skid surfaces on all stepping areas.
- 1.13 Unit shall have all necessary safety decals, (pinch points, fuel, warnings and reflective tape) front, rear and side reflectors.

### **2. Container**

- 2.1 Shall be triple wall construction.
- 2.2 Shall have a minimum of 16 gage exterior steel wall with 2" of rigid or equal of insulation.
- 2.3 Loading door shall have double steel walls, insulated. Doors shall open in such a way to create a chute for easy loading with a loader or an asphalt plant (maximum outside width shall be 103").
- 2.4 Loading doors shall be designed to be fully supported when in the open position.
- 2.5 Loading doors shall be hinged with bolted-on, grease-able, pillow block bearings with a minimum diameter of one (1") inch.
- 2.6 Loading doors shall be equipped with a positive safety lock to keep doors from closing during loading.
- 2.7 Loading doors shall be hydraulically opened and closed.
- 2.8 Loading door(s) movement shall be activated by a push button control box connected to a 15 foot power cord.
- 2.9 Loading doors shall be held in position during transport with positive safety lock; expandable rubber tie downs are not acceptable.
- 2.10 Shoveling door or doors shall be 17" x 30", insulated doors, located at the rear of the unit.
- 2.11 Shoveling door(s) shall allow full access to the hopper and to be equipped with low-friction roller bearings.
- 2.12 Door(s) shall allow operator precise control of amount of bituminous material desired.
- 2.13 Unit shall have a solvent tank for shovels and rakes to be located next to the work table at the right rear of unit.
- 2.14 Solvent tank shall be large enough to hold two (2) shovels and have a splash resistant curtain, tank cover and drain plug for easy cleaning.

- 2.15 Shoveling deck shall be approximately 24” to 30” above the pavement, minimum 14” deep.
- 2.16 The hopper container shall be equipped with a hydraulically operated rear door for dump of unused material after use.
- 2.17 Hopper container shall be equipped with an electrically operated self-contained hydraulic pump, valves, and a minimum of two (2) cylinders for the purpose of dumping the hopper container and a minimum of one (1) cylinder for opening the rear door
- 2.18 Self-tapping fasteners, of any type shall not be used in the construction of the hopper.
- 2.19 Hopper unit shall have the capability of dumping to a minimum of 30° degree angle.
- 2.20 Power source for controlling the movement of the hydraulic cylinders shall be a 12-volt self-contained hydraulic pump.
- 2.21 Hopper movement shall be activated by a push button control box connected to a 15 foot power cord.
- 2.22 As hopper moves up and down, the sub-frame shall remain stationary.
- 2.23 Each hydraulic cylinder shall rise at the same flow rate.
- 2.24 Hopper shall have a safety support to secure hopper in up position.
- 2.25 Trailer shall have adjustable outriggers at both rear corners of machine to achieve a minimum of 10% tongue weight at all times and in all positions.

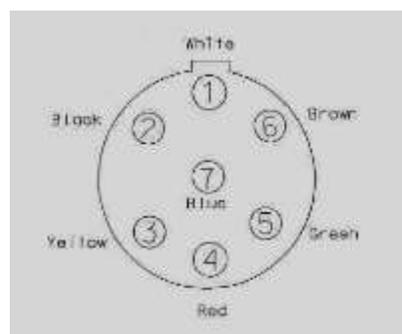
**3. Electrical**

- 3.1 Unit shall include a Heavy Duty 12 volt DC deep cell battery (Interstate Model 8D-MHD Workaholic with 1400 CCA or approved equal), to be capable of operating the unit for one complete work day without recharging.
- 3.2 Shall have a master electrical shut-off switch connected to the positive (+) side of the battery (may be located in control panel or close to battery).
- 3.3 A built in 12 volt solid state marine charger, designed to detect and charge to any one bank or combination of banks.
- 3.4 Battery charger shall be hard wired to the unit’s 12 volt battery and to a 120 volt male receptacle.
- 3.5 Receptacle shall be mounted in a weather tight container next to lockable toolbox.
- 3.6 Unit shall have a lockable tool box and shall be supplied with one 25 foot / 12 gauge extension cord.
- 3.7 Rear lighting shall be made up of two individual turn signals and two individual brake lights (ICC and DOT).
- 3.8 Exterior lighting shall be LED, to include plate light, (and license plate bracket), marker lamps, stop and turn signals, warning / hazard lights.
- 3.9 Exterior light must conform to ICC and DOT wiring, (trailers with 10,000 lb+ gvwt). Shown below is a seven wire ICC plug wiring code and plug configuration trailer wiring shall conform to this wiring and plug configuration.
- 3.10

<b>Circuits</b>	<b>Code #</b>	<b>Marking</b>	<b>Color Code</b>
Ground	1	W	White
Clearance, Side Marker & Identification Lamps	2	BK	Black
Left Turn & Hazard Signal	3	Y	Yellow
Stop Lamps & Anti-Lock Devices	4	R	Red

Right Turn Signal & Hazard Signal	5	G	Green
Tail, Rear Clearance Marker, & Plate Lamps	6	BR	Brown
Auxiliary Circuit	7	BL	Blue

3.11 All exterior trailer wiring to be run in suitable weather resistant loom or conduit which terminates in a weatherproof junction box on the tongue of the trailer. The trailer umbilical which leads to the truck light socket should terminate with a seven prong round female plug and begin at the weather tight junction box.



- 3.12 Unit shall come equipped with a directional signal light bar to include control unit for light bar.
- 3.13 Light bar shall be 12 volts with a maximum draw of 10 amps.
- 3.14 Light bar shall be no longer than 48".
- 3.15 Unit shall include minimum of two strobe lights located one at each at rear corner of the unit.
- 3.16 Unit shall come with a temperature / process controller capable of a 24 hour timer.
- 3.17 Controller shall be capable of starting and stopping the burners and maintaining set temperature.
- 3.18 Electrical controls shall be located on the unit behind a lockable door.

#### 4. Heating

- 4.1 Heating box shall have an oil jacketed heating system for heat distribution in the walls.
- 4.2 Box shall have a 1/4" floor plate.
- 4.3 The heating unit shall have 100% electronic ignition system.
- 4.4 A minimum of 105,000 BTU/ hour burner.
- 4.5 Burner shall heat the chamber with automatic digital temperature control.
- 4.6 Burner control shall be mounted in an electrical enclosure which shall be located on the rear of the unit on the right/curb side.
- 4.7 Fuel tank shall be bolt on with a minimum capacity of 18 gallons.
- 4.8 Fuel tank shall be mounted between frame rails with top of tank flush to the top of the rail and be heat shielded with an electric fuel gauge (if fuel gauge wire is exposed it must be fully protected against damage).
- 4.9 **Heating system shall be adequate to accomplish the following:**
- 4.9.1 Maximum skin temperature of 300° degrees.
  - 4.9.2 Heat and maintain cold mix from ambient temperature to 100° degrees.
  - 4.9.3 Heat and maintain hot patch at 300° degrees.  
Automatically maintain all heat setting for a minimum of 24 hours without scorching or otherwise damaging the mix.

- 4.10 Unit shall have a type A B C fire extinguisher of 5 pound capacity securely mounted, to include a water and weather proof inspection tag.
- 4.11 Unit shall have a thermometer on back of hopper mount cub side rear wall of the patch heater just above the solvent tank to monitor temperature.
- 4.12 Thermometer shall have a range of 50° to 500° degree.
- 4.13 Thermometer shall have a steel covering to protect the thermometer from hot asphalt.
- 4.14 The face of the thermometer shall have a 3" face and have a glass protective cover.

**5. Paint and Finish**

- 5.1 All metal shall be free of rust and mill scale and prepared (sandblasted) for primer and finish paint coat.
- 5.2 A two (2) part epoxy primer shall be applied to prepared metal surfaces to the minimum thickness of 3-5 mils dry.
- 5.3 Paint shall be applied to a thickness of 5-7 mils dry. Imron 5000 paint or approved equal.
- 5.4 Unit must be painted with lead free primer and paint.

**6. Warranty**

- 6.1 Manufacture's standard warranty will apply.
- 6.2 Terms and conditions of warranty must be provided with bid proposal.
- 6.3 Manufacture warranty will start with the in-service date.

**BIDDER FORM  
FOUR TON INFRARED ASPHALT  
RECLAIMER UNIT**

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

To the Director of Public Works for the City of Waterville, Maine:

Please accept this bid submission from

\_\_\_\_\_

(hereinafter called "Bidder"), a corporation\* organized under the laws of the

State of \_\_\_\_\_ or a partnership/individual\*\* doing business as

\_\_\_\_\_.

This bid is being submitted for a **FOUR TON ASPHALT RECLAIMER UNIT** in compliance with your invitation for bids, having examined the specifications and conditions contained therein. Alternatives/Substitutions are as follows:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Attach Additional Comments, As Necessary)

**The Bidder proposes to supply the following:**

**Bid Option #1:** Specified Unit - No Trade Allowance \$ \_\_\_\_\_

**Bid Option #2:** W/Trade – 1998 Ray Tech RC-8000 \$ \_\_\_\_\_

**Extended Warranty:** Provide Description Summary \$ \_\_\_\_\_

\*\*Delivery Guaranteed within \_\_\_\_\_ days of contract award and not beyond sixty (60) days of contract award.

NAME OF BIDDER: \_\_\_\_\_

BY: \_\_\_\_\_

(Signature)

NAME AND TITLE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_

TELEPHONE: \_\_\_\_\_

TAX ID# \_\_\_\_\_

\* Affix seal if by Corporation

\*\*Cross out word/phrases that do not apply