

INFORMATION TO BIDDERS
BITUMINOUS ASPHALT PAVEMENT
HEATING & SCARIFYING

The vendor shall pay prevailing wage rates as the attached wage rate schedules indicate.

The prices quoted in this bid are to be extended to all other political subdivisions within the Town of Somers. At no time shall the prices quoted to the Town be higher than those quoted and/or charged to any other political subdivision within the Town of Somers.

All bidders shall have at least 5 years experience in Bituminous Asphalt Heating & Scarifying, and shall furnish proof of such experience.

The intent of this specification is to describe a hot in-place paver placed recycling process. This process will be used as a method to rehabilitate a depth of up to 2" of an existing pavement surface in preparation for a resurfacing operation.

INSURANCE REQUIREMENTS ARE AS FOLLOWS:

LIABILITY: \$1,000,000 - each occurrence

WORKERS COMPENSATION: \$100,000 - \$500,000 - EACH OCCURRENCE

*CONTRACTOR MUST SUPPLY TRAFFIC CONTROL

TECHNICAL SPECIFICATIONS
BITUMINOUS ASPHALT PAVEMENT HEATING - SCARIFYING

SCOPE:

This item shall be part of a multi-step process of asphalt surface rehabilitation that consist of softening the existing flexible pavement with heat and thoroughly stirring, spinning or tumbling the mixture, applying as asphalt plasticizing or softening agent, reshaping and compacting the scarified surface and installing a surface treatment or overlay.

EQUIPMENT

Heater Scarifier

The heater-scarifier machine shall be one self contained machine specifically designed to reprocess upper layers of existing asphaltic pavement that has operated successfully on similar work prior to the award of this contract. The heater-scarifier machine shall be a self-propelled and completely self contained unit capable of operating at speeds of 25 to 50 feet per minute and completing a minimum of 3000 square yards per hour while uniformly heating, scarifying, applying plasticizer, mixing and screeding the existing pavement to a minimum depth of 3/4 of one inch at a minimum temperature of 225-F and Maximum temperature of 260-F. The wheel base shall not be less than eighteen feet (18') and the total weight shall not be less than 35,000 pounds. The rear driving wheels shall be tandem.

Heating Unit

The heating unit shall consist of multi-rows of burners of a type specifically designed for the purpose and capable of producing 36 million BTUH, LPG will be used for the heating fuel to prevent detrimental sooting or oil coaring of aggregate or asphaltic materials and to fully meet the standards of the State's Air Pollution Control Laws. The BTUH is based on heating 14'wide.

The rows of burners shall be spaced 36" apart to effect proper heat penetration to the desired temperature while causing no injury due to over heating of the asphaltic surface.

The entire burner assembly shall be so designed that it may be raised or lowered by a single control and capable of articulation. The burner assembly shall be adjustable in width from eight to fourteen feet. The entire heating unit shall be enclosed and vented to contain the heat and prevent damages to trees and shrubs.

Scarifying Unit

The scarifying unit shall consist of no less than two rows of spring loaded teeth adjustable in width from eight to fourteen feet in increments of 1" and constructed in 1 foot sections to conform to the pavement contour to insure uniform penetration of the teeth and prevent damage to utility structures.

Spray Unit

Immediately behind the teeth of the scarifying unit, an application of plasticizing or softening agent shall be applied to the newly remixed area. Nozzle size on the spray bar and pump pressure shall be of a combination that will deliver the approved rate of application according to the forward speed of the machine. The heating unit on the storage tank for the plasticizing or softening agent shall be thermostatically controlled to maintain an even specified temperature. The application of plasticizer or a softening agent shall be uniformly applied and agent shall be mixed into the scarifier material by mixing tines that are located immediately behind the spray bar. Spray bar at an application rate of 0.01 to 0.10 gallons per square yard (or as directed by the Engineer). The application rate shall be determined by a contractor and be mutually agreed upon by the engineer and the contractor prior to commencing work.

In addition to the above, it will be required that the spraying unit on the machine will be equipped with an electronic digital measuring system to constantly monitor the quantity of rejuvenating agent being applied. This device will be calibrated to show gallons used to the nearest tenth.

Screed and Initial Compaction Unit

The hot scarified material shall be uniformly distributed to the desired longitudinal and transverse section by the use of an attached, heated vibratory screed. The screed must be equipped with an adjustable crown control and each end of the screed must have hand wheel adjusting screws for providing the desired longitudinal and transverse section.

The properties of the asphalt modifier shall conform to the ones listed below, and shall be heated to a minimum of 150-F prior to application.

<u>PROPERTY</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>
Viscosity @140-F cSt	50	350
Smoke Point %F	260	
Flash Point %F	400	
Saturates % by wt.		30
Solubility in Trichloroethylene %	97.5	
Viscosity Ratio*		3

*Viscosity Ratio= $\frac{\text{TFO Viscosity at 140-F}}{\text{Original Viscosity at 140-F}}$

CONSTRUCTION:

The entire area to be resurfaced shall be cleaned of all deleterious material. Owner shall furnish the contractor of mechanical broom with operator for a period of two hours beginning at 7:00 a.m. each day.) The existing asphaltic material shall be heated, scarified and mixed to a minimum depth of 3/4 of one inch. Under no circumstances shall the scarifying teeth penetrate into the existing base.

The plasticizing or softening agent shall be applied immediately following the scarifying teeth. The hot scarified material shall then be fine mixed and uniformly distributed to the Desired longitudinal and transverse section by the use of an attached, heated, vibratory screed

Rolling

Following the screeding process, it will be required to roll the rejuvenated asphalt with steel wheeled, rubber tired, or vibratory roller meeting regulations of Section 401-3 06 with operator. The contractor will be required to submit bids for the entire process including rolling and not rolling.

It will then be the option of the municipality to select at their discretion to furnish the roller.

Measurement

Asphalt recycling performed and application of rejuvenating agent shall be measured by the square yard.

Payment

Prices shall include all labor, equipment, materials, fuel supplies, rejuvenating agent, mobilization, bond and insurance required to complete the above item. Payment for the heater, scarifying, screeding and application of rejuvenating agent will be made at the price bid per square yard. Price bid will include necessary traffic control.

BID SHEET

BITUMINOUS ASPHALT PAVEMENT
HEATING & SCARIFYING

QUANTITY	WITH ROLLER	WITHOUT ROLLER
Under 5,000 s.y. 3/4 to 2" depth	per s.y.	per s.y.
Over 5,000 <10,000 s.y.	per s.y.	per s.y.
Over 10,000 <20,000 s.y.	per s.y.	per s.y.
Over 20,000 <40,000 s.y.	per s.y.	per s.y.
Over 40,000 s.y.	per s.y.	per s.y.

***CONTRACTOR MUST SUPPLY TRAFFIC CONTROL**

FIRM: _____

BY: _____ TITLE: _____

ADDRESS: _____

PHONE: _____

**WAIVER OF IMMUNITY PURSUANT TO 103a
OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK**

The Contractor and/or Vendor and/or Supplier, pursuant to General Municipal Law, Section 103a, hereby agrees to the provisions in the law which require that upon refusal of a person, when called before a Grand Jury to testify concerning any transaction or contract had with the State, any political subdivision thereof, a Public Authority or with any public department, agency or official of the State or of any political subdivision thereof or of a public authority, to sign a Waiver of Immunity against subsequent criminal prosecution or to answer any relevant question concerning such transaction or contract.

(a) Such person, and any firm, partnership or corporation of which he is a member, partner, director or officer shall be disqualified from thereafter selling to or submitting bids to or receiving awards from or entering into any contract with any municipal corporation or fire district or any public department, agency or official thereof, for goods, work or services, for a period of five years after such refusal, and to provide also that;

(b) Any and all contracts made with any municipal corporation or any public department, agency or official thereof, since the effective date of this Law, by such person, and by any firm, partnership, or corporation of which he is a member, partner, director or officer may be cancelled or terminated by the municipal corporation or fire district without incurring any penalty or damages on account of such cancellation or termination, but any monies owing by the municipal corporation or fire district for goods delivered or work done prior to the cancellation or termination shall be paid.

AUTHORIZED SIGNATURE FOR BIDDER

TITLE

(CORPORATE SEAL, if any)

(If no seal, write "No Seal"
across this place and sign)

DATE

**NON-COLLUSIVE BIDDING CERTIFICATE PURSUANT TO 103d
OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK**

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

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

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

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

(B) A bid shall not be considered for award nor shall any award be made where (a) (1) (2) & (3) have not been complied with; provided however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where (a) (1) (2) and (3) have not been complied with, the bid shall not be considered for award nor shall any award be made unless the head of the purchasing unit of the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

The fact that a bid (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customers of proposed or pending publication of new or revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of subparagraph one (a).

By submission of this bid, the undersigned hereby affirms the truth of the foregoing certification under the penalties of perjury.

Signature of Bidder

ALL BIDDERS MUST SIGN
THIS CERTIFICATION PRIOR
TO THE OPENING OF THE BIDS

NON-COLLUSIVE BIDDING CERTIFICATION

Made pursuant to Section 103-d of the General Municipal Law of the State of New York as amended by the laws of 1966

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

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

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

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

(b) A bid shall not be considered for award nor shall any award be made where (a) (1), (2) and (3), above have not been complied with; provided, however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where (a) (1) (2) and (3), above, have not been complied with, the bid shall not be considered for award nor of the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

DATED _____

_____ Legal Name of Person, Firm or Corp

(SEAL OF CORPORATION)

_____ Business address of Person, Firm or Corp

By _____

_____ Signature

_____ Title