

CONTRACT DOCUMENTS
For
Cleaning and Sealing of Cracks in Asphalt Pavements

TOWN OF SOUTH WINDSOR, CONNECTICUT

DEPARTMENT OF PUBLIC WORKS

June 2006

TOWN OF SOUTH WINDSOR
1540 SULLIVAN AVENUE
SOUTH WINDSOR, CONNECTICUT 06074

INVITATION TO BID

Notice is hereby given that the Town of South Windsor, Connecticut shall accept sealed bids Cleaning and Sealing of Joints and Cracks in Highway Pavements.

Bids shall be accepted at the Office of the Town Manager, Town Hall, 1540 Sullivan Avenue, South Windsor, Connecticut 06074 until July 10, 2006, 11:15 a.m., at which time said bids shall be opened. Bids shall be in a sealed envelope marked "Cleaning and Sealing of Cracks in Asphalt Pavements".

"Specifications" and "Bid Forms" may be obtained in the Office of the Director of Public Works at the above address.

The Town reserves the right to accept or reject any and all bids.

Matthew B. Galligan
Town Manager

INTENT OF CONTRACT

The Town of South Windsor is seeking a Contract for the "*Cleaning and Sealing of Cracks in Asphalt Pavements*".

This Contract is intended to describe three different methods or approaches in the sealing of various cracks in asphalt pavements using standard methods and equipment. The complete detailed specifications and approaches seek to achieve competitive bids from various contractors.

These specifications describe the minimum qualifications for our needs. Products which meet and/or exceed these qualifications may be considered.

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GENERAL PROVISIONS

1. The Town of South Windsor reserves the right to reject any or all bids, if deemed in the best interest of the Town.
2. Minor variations to the specifications, not affecting the quality of the work, will not disqualify a bid from consideration.
3. All Federal, State laws and Regulations must be complied with. This includes compliance with motor vehicle laws, OSHA regulations, Workers' Compensation Insurance, and drug testing for CDL drivers and traffic/flagger control as described in the Manual on Uniform Traffic Control Devices, Article 6E (copy attached).
4. Start date shall be established at the time of the Bid Award.

INSTRUCTIONS TO BIDDERS

1. Proposals must be submitted to the Office of the Town Manager in sealed envelope marked BID "*Cleaning and Sealing of Cracks In Asphalt Pavements*" on, or before, the date and time specified in the "Invitation to Bid".
2. Proposals must be made in ink on the forms provided in the Bid Documents.
3. The low bid will be the total of the base bid and/or the options (if any) under bid sheets A, B, C, selected by the Town to be included within the scope of the project.
4. Each Proposal must be accompanied by a Certified Check in the amount of 10% of the total amount of the tendered bid, made payable to the Town of South Windsor. Said check to be held, as security for the performance of the conditions as bid, and shall be returned to the bidder subsequent to satisfactory performance of the Contract Proposal.*
5. Each deposit shall be held by the Town as security for the fulfillment of the bidder's

promises as set forth in his/her Proposal and that he/she will not withdraw the proposal while it is being considered, and will execute the Contract Agreement.

6. Unless it shall become the property of the Town, said deposit shall be returned to the bidder hereinafter provided.

Deposits will be returned to all except the three lowest bidders within three (3) days, (Saturdays, Sundays, and legal holidays excluded) after the formal opening of bids; and to the second and third lowest bidders after the Town and the accepted bidder have executed the Contract. In the event that the Contract has not been executed by both the accepted bidder and the Town within 30 calendar days after opening of the bids, the check deposit will be returned promptly upon demand of any bidder who has not been notified of acceptance of his bid.

7. Upon delivery to the Town of a duly executed written notice, bids may be withdrawn at any time prior to the designated time for the opening of bids.
8. Unless a Proposal is formally withdrawn, it shall be deemed open for acceptance until the Contract Agreement has been executed by both parties. Or until the Town manifests that it does not intend to accept the Proposal. Notice of acceptance of a Proposal shall not constitute rejection of any other Proposal.
9. The right is reserved to reject any one or all bids, if deemed in the best interest of the Town of South Windsor.
10. The person or persons to whom the Contract shall be awarded, must execute said contract in duplicate within five (5) days of the notification of such award, and in the case of failure to do so, he, she or they will be considered to have abandoned the Contract. The check accompanying the Proposal shall be forfeited to the Town of South Windsor.
11. A Performance Bond in the amount of 100% of the total contract amount shall be submitted by the successful bidder.

The Bond shall be written by a surety company authorized to conduct business in the State of Connecticut and shall be accompanied by a Power of Attorney in favor of the Town of South Windsor.**

* Item 4-In lieu of a certified check for bid security, a letter of credit in the amount of 10% of the total of the tendered bid will be acceptable. The letter of credit shall be from a bank or financial institution licensed to do business in the State of Connecticut.

** Item 11- In lieu of the 100% performance bond, a letter of credit in the amount of 100% of the tendered bid will be acceptable.

**TOWN OF SOUTH WINDSOR
SPECIFICATIONS,**

“Cleaning and Sealing of Cracks in Asphalt Pavements”.

1. SCOPE OF WORK

The work covered by this section of the specification consists of furnishing all plant, labor, equipment and materials necessary to perform all operations in connection with the cleaning and filling of random cracks in asphalt pavements, and vegetation removal and sterilization of cracks where necessary.

II MATERIAL DESCRIPTION

The sealing compound shall be of the rubber-asphalt-hot poured type conforming to the following specifications: Federal Specification SS-S-164, AASHTO M 301, ASTM D6690.

The qualities of the sealant shall be as specified by the manufacturer.

- A. Forms a good bond to crack sides.
- B. Has elastic properties that enable it to withstand movements of approximately twice the formed width of the crack.
- C. Extensibility at low temperatures.
- D. Resists flow at high temperatures.
- E. Viscous at pouring temperature to flow into cracks.
- F. Positive seal should result.
- G. Resist intrusion of foreign matter.
- H. Long-lasting.
- I. Will not be picked up by vehicle tires at an ambient temperature of 125° F.

3. EQUIPMENT

Equipment used in the performance of the work required by this section of the specification shall be subject to the approval of the inspector and maintained in a satisfactory working condition at all times.

- A. Air compressor: This unit will have a minimum capacity of 90 psi and shall have sufficient hose to maintain a continuous sealing operation without interruption. The compressor shall be equipped with traps that will maintain the compressed air free of oil and water.
- B. Hand tools shall consist of brooms, shovels, metal bars with chisel shaped ends, and any other tools which may be satisfactorily used to accomplish this work.
- C. Melting kettle: the unit used to melt the joint sealing compound shall be double boiler, indirect fired type. The space between the inner and outer shells shall be filled with a suitable heat transfer oil or substitute having a flash point of not less than 600° F. The kettle shall be equipped with a satisfactory means of agitating the joint sealer at all times. This may be accomplished by continuous stirring with mechanically operated.

Paddles and/or by a continuous circulating gear pump attached to the heating unit. The kettle must be equipped with thermostatic control calibrated between 200° and 550° F.

- D. Hand pouring pots must be equipped with mobile carriage and rubber shoe to have a flow control valve which allows all cracks to be filled to refusal so as to eliminate all voids or entrapped air, and not leave unnecessary surplus crack sealer on pavement surfaces.
- E. An application wand and shoe may be used instead of pour pots and shall produce a sufficient band on each side of the crack. The height of the sealant above the crack shall not exceed 1/16 inches above the crack. The hose connected to the wand shall be insulated and pressurized to ensure material temperature is maintained.

4. **PROCESS DESCRIPTION**

- A. ***Route and seal process*** shall consist of the use of a machine router capable of routing cracks less than 1/2 inches or equal to in width and routing to a minimum depth of 1/2 inches. Compressed air will be used to clean the crack prior to sealing and all debris will be blown to the gutter.
- B. ***The clean, seal, and re-cap process*** consist of compressed air cleaning of cracks and sealer capping of previously filled cracks with the surface of the sealant greater than or equal to 1/8 inches below the surrounding pavement, and all previously filled cracks exhibiting cracks, holes, voids, and separation from the adjacent pavement. All debris from the compressed air cleaning will be blown to the street gutter prior to sealing.
- C. ***Air Clean and seal process*** consist of compressed air cleaning of cracks larger than 5/8 inches, removing sand, debris and filling the crack flush with the surrounding pavement free of voids at a depth no greater 3/4 inches unless approved by the Towns' Inspector and proper backer rod is used. All debris from the compressed air cleaning will be blown to the street gutter prior to cleaning. The intent for use of this process is for sealing cracks larger than a router would provide.

5. **PREPARATION**

- A. Cleaning, all cracks shall be thoroughly cleaned to remove all dirt, moisture, foreign material and loose edges from crack wall. Compressed air shall be used to accomplish this and all debris will be blown to the street gutter.
- B. Vegetation, when cracks show evidence of vegetation, it shall be removed and sterilized by use of propane torch unit eliminating all vegetation, dirt, moisture, and seeds.
- C. Vendor to allow vehicle traffic to pass over crack sealer prior to curing shall apply the anti-tracking liquid known as Glenzoil or an equivalent.
- D. No crack sealing material shall be applied in wet cracks or when frost is neither present nor when the ambient temperature is below 40° F.
- E. If cracks are not dry a hot air lance may be used to dry the crack completely. The hot air lance shall be a propane torch capable of drying the crack. The cracks will be subject to the Town Inspectors approval prior to filling.

6. **PREPARTION OF SEALER**

Joint sealing material shall be heated in a double jacketed oil filled kettle and applied at the temperature specified by the manufacturer.

7. **INSTALLATION OF SEALER**

All cracks shall be sealed as specified herein, and the sealer shall be well bonded to the pavement. Unless otherwise directed, the cracks shall be completely filled flush with the pavement and not less than 1/16" below surface, without formation of voids or entrapped air. Best results are obtained when sealant depth to width ratio does not exceed 2 to 1 and when the joints are opened to at least 1/2" wide. When large, deep cracks exist an approved backer rod will be used prior to filling the crack. Black beauty may be used to fill the crack or another DOT approved method may be used subject to the Towns Inspectors approval. Backer Rod, black beauty or another approved method will be used for cracks exceeding 3/4 inches in depth and 1 inch in width. The cost of the backer rod and labor to install it will be a separate line item under the air clean and seal by the pound portion of this bid (BID FORM C) priced by the linear foot.

8. **WORKMANSHIP**

All workmanship shall be of the highest quality, and excess or spilled sealer shall be removed from the pavement by approved methods and discarded. Any workmanship determined to be below the high standards of the particular craft involved will not be accepted, and will be corrected and/or replaced as required by the inspector in charge.

9. **TRAFFIC CONTROL – CONTRACTOR FURNISHED (SEPARATE BID ITEM)**

Traffic control on two-lane type (non-divided) highways. The contractor shall supply and be responsible for all labor including traffic men, equipment, signs, sign supports, cones and any other materials necessary. All temporary traffic control devices and flagger control shall conform to the current addition of the Manual of Uniform Traffic Control Devices. Pages 6A-1, 6E.03 through 6E-4, 6F-7, 6F-8, 6Ff31 and 6F-32 of the MUTCD 2003 Edition are attached hereto as an appendix.

Flaggers shall wear safety apparel and be equipped with devices as prescribed in section 6E-02 and section 6E.03. Flagging procedures shall be in accordance with section 6E.04. Flagging stations shall be located such that approaching road users will have sufficient distance to stop at an intended stopping point and as further described in section 6E.05. Flaggers shall be dedicated to traffic control duties only. If relief for the flagger is required, another person shall assume the duties and responsibilities until the flagger returns.

10. **NIGHT TIME WORK (separate bid item)**

Almost all of the work performed for the Town will be between the hours of 7:00am and 3:30pm, Monday thru Friday. There may be some work that needs to be done at night, such as a public building parking lot or a local street with high traffic counts.

11. **PERFORMANCE BOND**

The amount of Performance Bond will be determined by multiplying the estimated feet of

Rout and Seal times the cost per linear foot plus the estimated feet of Re-cap times the cost per linear foot without traffic.

12. **TIME OF COMPLETION**

The contractor will begin on or about _____, and work continuously until areas designated by the Town are completed. After this phase of work, it is intended that the Town will notify the contractor of additional work, if any. The contractor's option to undertake assignments less than this amount. The contractor shall provide notification from the time to begin work within two weeks from the date of such notice and pursue same continuously until completed.

13. It is estimated that 190,000 linear feet of crack sealing will be under this contract for the Town for the first year. This footage is for estimating purposes only and the Town reserves the right to vary the footage without a change in the unit price bid. The footage shall be measured by the Towns Inspector and the Contractor daily and will be agreed to at the end of the days completed production.

14. **LENGTH OF CONTRACT**

This is a two year contract. The first two years shall be at the rates Bid. The third year is optional at the % increase bid and will become affective if mutually agreeable to both parties.

Town shall consider the quality of work performed by the contractor and his ability to perform the work in accordance with these specifications. The Town also reserves the right to reject any or all proposals whenever it deems it to be in the best interest of the Town of South Windsor.

Town of South Windsor

Cleaning and Sealing of Joints and Cracks in Highway Pavements

Route and Seal

Bid Form A

Rout, clean and seal shall consist of the use of a machine router capable of routing cracks less than 1/2 inches in width and routing to a minimum of 1/2 inches in depth. Compressed air will be used to clean the crack prior to sealing and all debris will be blown to the gutter.

The undersigned bidder hereby declares he has carefully examined the attached instruction to bidders and the specifications and agrees to furnish and deliver to the Town of South Windsor, Connecticut, the materials listed herein, in accordance with the conditions and prices stated herein.

PRICE PER LINEAR FOOT ROUT AND SEAL

500 TO 5000 LF 5001 Lf. TO 50,000 LF OVER 50,001 LF

Additional per unit price for traffic control

500 TO 5000 LF 5001 LF TO 50,000 LF OVER 50,001 LF

Additional price for night time work _____ cents per liner foot.

Third year optional extension with _____ % increase

Name of Firm

Printed Name of Representative

Address of Firm:

Signature of Representative

Title of Representative

Town of South Windsor

Cleaning and Sealing of Joints and Cracks in Highway Pavements

RE-CAP

Bid Form B

The re-cap bid section consist of compressed air cleaning and capping previously filled cracks with the surface of the existing sealant greater than or equal to ¼ inch below the surface of the surrounding pavement, and all previous filled cracks exhibiting cracks, holes, voids, and separation from the adjacent pavement. All debris from the compressed air cleaning shall be blown to the gutter prior to sealing.

The undersigned bidder hereby declares he has carefully examined the attached instruction to bidders and the specifications and agrees to furnish and deliver to the Town of South Windsor, Connecticut, the materials listed herein, in accordance with the conditions and prices stated herein.

PRICE PER LINEAR FOOT FOR RE-CAP

500 TO 5000 LF 5001 LB TO 20,000 LF OVER 20,001 LF

Additional per unit price traffic control

500 TO 5000 LF 5001 LB TO 20,000 LF OVER 20,001 LF

Additional price for night time work _____ cents per liner foot.

Third year optional extension with _____ % increase

Name of Firm

Printed Name of Representative

Address of Firm:

Signature of Representative

Title of Representative

Town of South Windsor

Cleaning and Sealing Cracks in Asphalt Pavements

AIR CLEAN AND SEAL

Bid Form C

Air clean and seal bid consist of compressed air cleaning of cracks, removing sand, debris and filling a crack flush with the surrounding pavement free of voids at a depth no greater than ¾ inches unless approved by the Towns' Inspector and proper backer rod is used. All debris from compressed air cleaning will be blown to the streets gutter prior to the filling of the crack.

The undersigned bidder hereby declares he has carefully examined the attached instruction to bidders and the specifications and agrees to furnish and deliver to the Town of South Windsor, Connecticut, the materials listed herein, in accordance with the conditions and prices stated herein.

PRICE PER POUND FOR AIR CLEAN AND SEAL

500 TO 5000 LBS 5001 LBS TO 10,000 LBS OVER 10,001 LBS

Additional per unit price traffic control

500 TO 5000 LBS 5001 LBS TO 10,000 LBS OVER 10,001 LBS

Additional price per linear foot for backer rod used on large deep cracks

_____ per linear foot installed

Additional price for night time work _____ cents per liner foot.

Third year optional extension with _____ % increase

Name of Firm

Printed Name of Representative

Address of Firm:

Signature of Representative

Title of Representative

Date

Telephone Number

QUANTITIES

It is estimated that there is 169,000 linear feet of route and seal and 20,000 linear feet of re-cap footage.

There is a possibility of doing a parking lot with an estimated 600 lbs. of cracksealing.