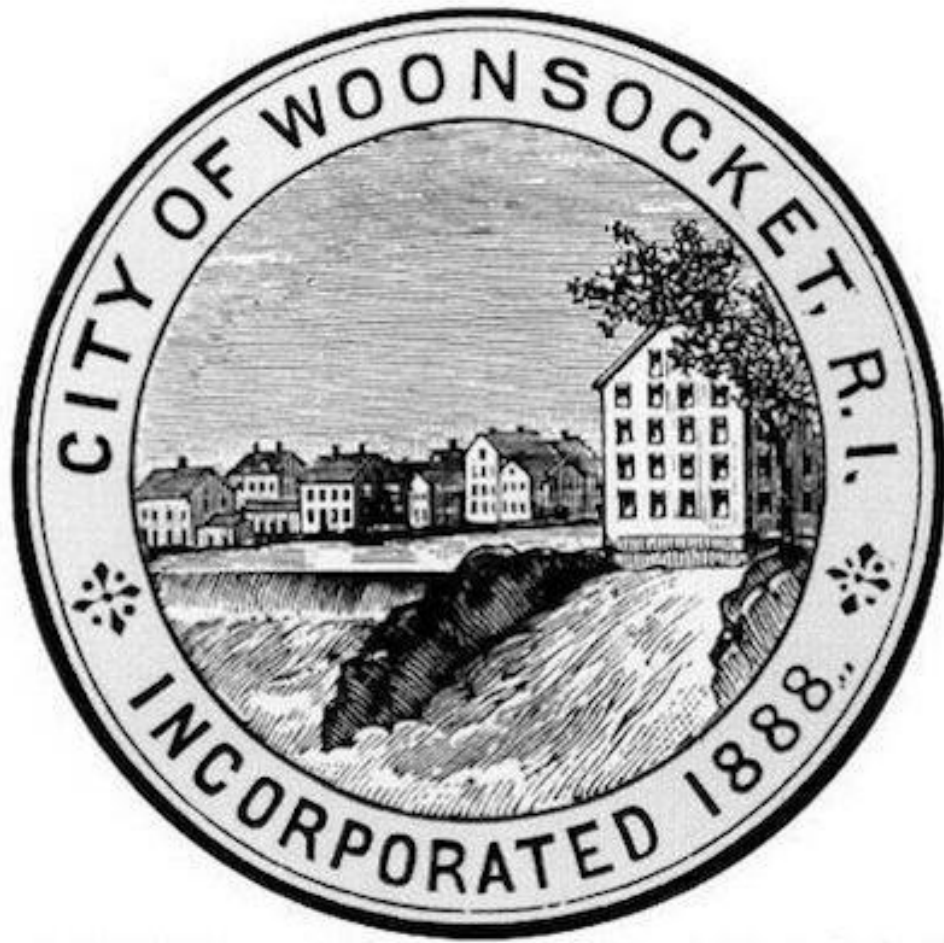


City of Woonsocket



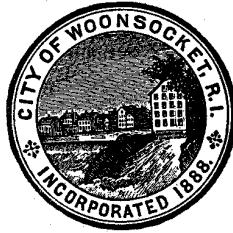
REMOVAL, DISPOSAL & INSTALLATION OF ASPHALT PATCHING

BID No. 6199

Bid Specifications

Prepared By: City of Woonsocket

*Department of Public Works
January 2024*



CITY OF WOONSOCKET, RHODE ISLAND
INVITATION TO BID FOR:
“REMOVAL, DISPOSAL & INSTALLATION OF
ASPHALT PATCHING”
BID No. 6199

For Department of Public Works

City of Woonsocket is accepting bid proposals for the above-referenced project.

Bid Opening: Bids must be received by Woonsocket City Hall, Office of Purchasing, 169 Main Street, Woonsocket, RI 02895 prior to the bid opening date and time. On time bids will be publicly opened and read aloud in Harris Hall, located on the 3rd floor of Woonsocket City Hall, promptly starting at **2:00 p.m. on Friday, February 2, 2024**. Bids received after this deadline will not be accepted and will be returned unopened to the sender.

Bid Submissions: All bids must be submitted in duplicate, placed in a sealed envelope and identified with the following information: **“Removal, Disposal & Installation of Asphalt Patching, Bid No. 6199.”** Bids must be prepared using the provided bid forms. All forms must be typed or printed and then signed and dated in ink.

Project Components: Furnish all labor, equipment, materials, tools, supplies, mobilization, overhead, transportation and all other incidental items for the removal, disposal and installation of asphalt in the City of Woonsocket.

Project Timeline: The contract term will be for a one (1) year period.

Questions: Questions regarding this solicitation should be submitted via email to Ken Allaire, Purchasing Agent, at ken.allaire@woonsocketri.org. The deadline to submit questions is **Friday, January 26, 2024, prior to 5:30 p.m.** Answers will be published online by the City in the form of an Addendum. Any questions submitted after the deadline may not be considered. Do not contact any other City employee or official regarding this solicitation.

Bid Bond: The bidder is required to furnish a bid guarantee in the form of a firm commitment, e.g., a Bid Bond supported by good and sufficient surety or sureties acceptable to the City, postal money order, certified check, or cashier’s check. The amount of the bid surety is \$1,000.00

Performance/Payment Bond: A Performance and Payment Bond issued in a sum equal to \$20,000.00 will be required from the successful bidder.

Prevailing Wages: In accordance with RI General Law 37-13-7 contracts in excess of \$1,000 shall require compensation based on prevailing wages for construction, alteration and/or repair, painting and decorating.

Nonresident Contractors: In accordance with Rhode Island General Law 44-1-6, nonresident contractors are subject to a 3% withholding of the contract price to secure payment of any sales tax, use tax, and/or income tax withheld that may be due the State of Rhode Island. WBE, MBE and Section 3 contractors are encouraged to bid.

Bid: In conformance with the terms and conditions of these specifications including the Invitation to Bid and other documentary forms therewith, the Bidder hereby proposes, offers and agrees if this bid be accepted within sixty (60) calendar days from the date of bid opening to do all things necessary to fully perform and satisfy all terms, conditions and requirements of the subject specifications.

Withdrawal of Bids: No bidder may withdraw their bid within sixty (60) calendar days after the actual time and date of the bid opening thereof.

Rejection of Bids: The City reserves the right to cancel this ITB, award on the basis of cost alone, accept or reject any or all bids, in whole or in part. The City further reserves the right to waive as an informality any irregularities contained in any bid not affecting substantial rights that may be in the City's best interest. Proposals found to be technically or substantially nonresponsive at any point in the review process will be rejected and not considered further. Any such decision will be considered final.

Bid Award: Upon selection of a winning contractor, the City of Woonsocket will send a bid award notice to the awardee. The bid award notice will identify a point of contact from the City who will assist the awardee in completing any pre-work requirements. Upon satisfactory meeting all of the obligations of the pre-work requirements, the City of Woonsocket will issue a "Notice to Proceed" for work to commence.

Individuals requesting interpreter services for the hearing impaired should call the Finance Director at 401-762-6400 seventy-two (72) hours in advance of the bid opening deadline.

Thank you for your consideration of this invitation to bid and your participation in this bid process.

Published: January 8, 2024

X _____
Christine Chamberland,
Finance Director

**CITY OF WOONSOCKET
RHODE ISLAND
FINANCE DEPARTMENT**

TECHNICAL SPECIFICATIONS

SECTION 1

GENERAL:

1.01 SCOPE OF WORK

The Contractor shall furnish all labor, equipment, materials, tools, supplies, mobilization, overhead, transportation and all other incidental items for the removal, disposal and installation of asphalt in the City of Woonsocket.

The work, in general, shall include the following:

- a) All edges are to be saw cut to the full depth of the existing asphalt.
- b) Excavate, remove and properly dispose of existing asphalt and install new permanent asphalt to a depth directed by the City of Woonsocket Engineering Division or Water Division.
- c) Excavate additional unsuitable material below sub-grade, install suitable gravel and compact, only as directed.
- d) All edges are to be primed with 0.5 gal. / sq. yd. emulsion.
- e) Provide and install asphalt.
- f) Crack seal edges

1.02 ASSIGNMENT OF WORK

The locations of the asphalt work in each City district shall be given to the Contractor as soon as a list is compiled. Additional work will be made only in those City districts not yet completed by the Contractor. All other work will be placed on the next list. It is the City's intent to provide the Contractor with steady work with each list.

1.03 CONTRACTORS RESPONSIBILITIES

- Be responsible to obtain a 'DIG SAFE' number prior to commencing work.
- Obtain any necessary Federal, State and Local permits.
- Contractor shall provide a 'Competent Person', as defined by the US Department of Labor Occupational Safety & Health Administration (OSHA), for the location of the proposed work. The contractor shall employ only competent and efficient laborers, operators and tradesmen for every kind of work, and whenever, in the opinion of the City Engineer, any person is unfit to perform their task, or does their work contrary to directions, or conducts themselves improperly, the contractor must discharge that person immediately and not employ that person again on the work.
- Provide Certified Payroll(s).
- Disclose any sub-contractors that will be used for this work, for approval by the City of Woonsocket.
- Provide the location of where the removed asphalt and gravel will be transported to.
- Disclose the vendor information for the asphalt to be supplied to the site.

-Obtain necessary police details for traffic control and safety. The City will only reimburse police detail cost at the standard detail rate at straight time not exceeding 8 hours. Over time for police details must be approved by the City. It is the responsibility of the contractor to schedule and or cancel the police detail within an acceptable time period as to not accrue unnecessary cost. This is a reimbursement; therefore the contractor must pay the police invoice before invoicing the City.

SECTION 2

MATERIALS:

2.01 GRAVEL BEDDING

The gravel bedding for the sub-base, when applicable, shall consist of materials or mixture of hard, durable, rock fragments and soil binder, free from soft particles or clay and conforming to the following gradation:

<u>Designation</u>	<u>Percentage by Weight Passing through Square Mesh Sieves</u>	<u>Sieve</u>
3/4 inch	100	
1/2 inch	50-85	
3/8 inch	45-80	
NO. 4	40-75	
NO. 40	0-45	
NO. 200	0-10	

2.02 ASPHALT EMULSION

The asphalt emulsion shall be SS-1, SS-1h, CSS-1, or CSS-1h.

2.03 BITUMINOUS PAVEMENTS

The bituminous pavements shall conform to State of Rhode Island Standard Specifications for Road and Bridge Construction, 1997 Edition, including the latest corrections and revisions, Section 401, including all subsections thereof.

SECTION 3

METHODS OF WORK:

3.01 SAW CUTTING OF EXISTING ASPHALT

All saw cutting shall be included as part of each item in the Bid Proposal. All existing asphalt edges shall be cut at the marks laid out by the City of Woonsocket, Engineering Division and or Water Department. All equipment used in saw cutting must be satisfactory to the Engineering Division. Avoid crosscuts.

3.02 EXCAVATION

Excavation and the equipment and personnel to do so shall be included as part of each item in the Bid Proposal. Excavate, remove and properly dispose of existing asphalt and install new permanent asphalt to a depth directed by the City of Woonsocket Engineering Division and or

Water Division. Excavations below sub-grade involving rock or other unsuitable material, as determined by the Engineering Division and or Water Division, shall be completed to such depths as directed by the

Engineering Division and or Water Division and then backfilled with gravel to the proper sub-grade. The gravel shall be properly placed and compacted to not less than ninety (90%) percent dry density.

3.03 EMULSION

Emulsion shall be included as part of each item in the Bid Proposal. Application of the asphalt emulsion tack coat may be applied by means of a pressure distributor capable of producing a uniform continuous fine spray or a handheld brush. The results must be a uniform continuous coat of asphalt emulsion over the section to be treated. Any puddles from the tack coat must be squeegeed or broomed out.

3.04 INSTALLATION

Bituminous Binder (a.k.a. Intermediate Course) (modified type) shall be installed in proper lifts (see Attachment A) and compacted with a water-cooled plate compactor (where needed) and roller. The installation and compaction of material shall be with equipment deemed acceptable by the Engineering Division and or Water Division, for the work being performed. The contractor shall paint the edges with high visibility spray paint and place adequate safety cones to clearly and completely surround and protect the bituminous binder until the binder has cooled.

The binder shall be installed immediately after the patch has been excavated. No excavations will be allowed to remain open overnight. The binder course is required to set for one day before the installation of the surface course.

Bituminous Surface (a.k.a. Wearing Course) (Type I-1) shall be installed to proper grade and compact with a water-cooled plate compactor (where needed) and roller. The installation and compaction of material shall be with equipment deemed acceptable by the Engineering Division and or Water Division, for the work being performed. The contractor shall place safety cones to clearly and completely surround and protect the bituminous surface until the surface is cooled.

The surface course shall be installed the day following the installation of the binder course. The contractor shall place safety cones to clearly and completely surround and protect the bituminous surface course until the binder is cooled.

3.05 CRACK SEALANT

Crack sealant shall be paid by the linear foot and applied at all cut edges.

1. The modified asphalt crack sealant shall be a mixture of paving asphalt and ground rubber or ground rubber and polymer. The modified asphalt crack sealant shall be a hot-applied mixture intended for use as a street pavement preservation sealant against debris and moisture infiltration.

Materials shall consist of paving asphalt and vulcanized ground rubber.

2. The modified asphalt crack sealant shall conform to the following requirements:

ASTM Test Designation Requirements

Softening Point ASTM D-36 180° F minimum

Cone Penetration @ 77° F ASTM D-5329 30 mm minimum

Resilience @ 77° F ASTM D-5329 40% minimum

Flow ASTM D-5329 3 mm maximum

4. The modified asphalt crack sealant material shall be furnished premixed in containers with an inside liner of polyethylene. Packaged material shall not exceed 66 pounds in weight.

5. The modified asphalt crack sealant material shall be capable of being melted and applied to cracks at temperatures below 400° F. When heated, it shall readily penetrate cracks 1/4 inch wide or wider.

PREPARATION

A. Cracks to be filled and adjacent asphalt concrete surfacing shall be cleaned and shall be free of dirt, vegetation, debris and loose sealant. Cleaning shall be done by air blasting. Old sealant which protrudes above the asphalt concrete surfacing shall be completely removed.

B. Hot compressed air or other means, approved by the Engineer, shall be used to clean and dry the crack immediately prior to application of material

C. The modified asphalt crack sealant material shall be unboxed and placed in joint and crack sealing machine for heating and mixing. The asphalt-rubber shall be heated to a minimum temperature of 300°F. The material shall be held in the mixing tank at application temperature until very little separation of the rubber and asphalt occurs when a bead of sealant material is placed on the pavement. Sealant material may be added to the mix as long as the minimum temperature of 300° and the ability of the material to penetrate the cracks are maintained. If overheating damage occurs, the tank shall be drained with the damaged materials legally disposed of by Contractor and the tank shall be refilled with new material.

APPLICATION

A. The crack sealant material shall be applied only after the cracks and adjacent asphalt concrete surfacing have been cleaned.

B. Crack sealant material shall be spread with any type nozzle or device approved for use by the Engineer that will place the material within the specified temperature range.

C. Cracks 1/4 inch wide and wider shall be prepared and sealed. The limits of the lanes to be prepared and sealed shall be as designated or as directed by the Engineer.

D. Crack Sealing shall be performed prior to application of slurry seal and as accordance in the contract document

E. Cracks shall be sealed from the bottom up. Sealant material shall be applied so it is 1/8" below the pavement surface.

F. All cracks shall be squeegeed when necessary after application of the crack sealant material

G. Traffic shall not be allowed on the material until it has cured or until it has been sanded to prevent tracking

H. Within 2 days after application of sealant, sealed cracks that reopen or in which the sealant material sags below the surrounding asphalt concrete surfacing and shoulders shall be resealed

A. POLYMER MODIFIED SLURRY SEAL Section 32 12 16.29

B. HOT MIX ASPHALT BASE REPAIR Section 32 02 23

3.06 INFRARED REPAIRS/ RESTORATIONS

Methods of Construction

General:

- Before the Infrared Restoration is begun, the proper authorities, in conjunction with the contractor will mark out the areas to be restored.

Safety:

- Proper safety precautions shall be taken including traffic cones, signage, and flagmen (if necessary) to insure a safe workplace for workers, pedestrians and automobile traffic.

Defining and Preparing the Work Area:

- The area shall be swept clean of dirt, loose aggregate or standing water.
- A chalk line shall be drawn 6-12 inches back from the damage.

Heating the Repair Area:

- The infrared chamber is lowered over the repair being sure to allow at least 12 – 18 inches of heated area beyond the perimeter of the original opening.
- To ensure the proper heating time, the contractor shall check the surface temperature of the asphalt at seven minutes and every minute thereafter using an infrared thermometer so as not to allow the surface temperature to exceed 350 degrees Fahrenheit. The heating time is influenced by the ambient temperature, the color of the pavement, the size of the aggregate, and the moisture content.
- After the appropriate heating time (typically 8-10 minutes), the asphalt surface will be softened to a depth of 2-2.5 inches.
- The infrared chamber is then removed from the heated area.

Raking the Heated Area:

- The backside of a steel rake is used to neatly square off the repair, cutting 6 – 12 inches back from the damage along the chalk line.
- The area inside the repair is then deeply scarified, taking special care to eliminate the original seam between the repair and the road. .
- The maltenes rejuvenator shall be applied if needed, to the repair and the surrounding heated asphalt surface.

Adding Plant Mix Asphalt:

- TDOT 411E or D mix (1/4" – 1/2" aggregate) is then added to the area to bring it up to proper grade.
- The repair is luted smooth.

Compaction:

- The area is properly compacted being sure to roll the edges first to fuse the hot repair to the heated but untouched surrounding pavement.
- A light coating of stone dust can then be spread over the repair to remove the tackiness. The road can then be opened to traffic.
- The total time for a typical single heat restoration should be no more than 20-30 minutes. This timeframe shall be strictly adhered to so as to insure that both the heated pavement and added asphalt have not been allowed to cool significantly. This guarantees the proper fusion between the repair and the existing road surface.

Standard Warranty:

- The infrared restoration installed under this specification shall be guaranteed by the contractor against failure resulting from defective materials or methods of application for a period of one year from date of installation.

- The contractor shall guarantee to repair, without cost to the customer that part of the original restoration installed under this contract that, in the opinion of the property owner, has not remained in useful service.
- The repair installed under this warranty shall be guaranteed the same as the original material from the date of the original restoration.
- This warranty shall not include depressions or areas of settlement caused by lack of proper compaction of the base or sub-base material.

3.07 CLEAN UP

The work area and the adjacent areas affected by the progress of the work shall be kept clean and all rubbish, surplus materials and unneeded construction equipment shall be removed. All damage to said areas shall be repaired immediately so as to inconvenience the general public and the property owners as little as possible.

All damage repairs shall be the sole responsibility of the contractor.

Material or debris from the Contractor's operations, which have washed into or flowed into or been placed in water courses, ditches, gutters, drains, catch basins, or elsewhere, shall be removed entirely and satisfactory disposed of during the progress of the work and the water courses, ditches, gutters, drains, catch basins, or elsewhere, kept clean

and neat condition thereafter. The Contractor shall restore or replace, whenever directed by the Engineering Division, any public or private property damaged by his work, equipment, or employees to a condition at least equal to the condition existing immediately prior to the beginning of operations. To this end the Contractor shall do as required, all necessary driveway, highway, front walk and landscaping work. Suitable materials, equipment and methods shall be used for such restoration. The Contractor shall save harmless the City from any damage claims caused by his operations.

3.08 REPLACEMENT OF PAVEMENT LINE STRIPING

Any pavement markings such as centerline(s), fog lines, stop line markings, crosswalks or turn indicating arrow markings partially or completely removed or disturbed within the effected areas of asphalt patches, shall be restored as per M.U.T.C.D. standards by the Asphalt Patching Contractor.

SECTION 4

INSURANCE REQUIREMENTS:

The successful bidder shall furnish to the City, prior to issuance of the contract certificates of minimum insurance as listed below. These certificates shall contain a provision that the insurance company will notify the certificate holder, by registered mail, at least 15 days in advance of any cancellation or material change.

Workman's Compensation	Statutory	
Employers Liability	\$ 100,000	Each Accident
Automobile Liability	\$1,000,000	Combined Single Limit
Commercial General Liability	\$2,000,000	General Aggregate
	\$2,000,000	Products & Completed Operations
Aggregate	\$1,000,000	Personal & Advertising Injury
	\$1,000,000	Each Occurrence
	\$ 100,000	Fire Damage (Any one fire)

\$ 5,000 Medical Expenses (Any one person)

SECTION 5

LICENSE/CERTIFICATE/PERMIT REQUIREMENTS:

- Contractor shall provide a 'Competent Person', as defined by the US Department of Labor Occupational Safety & Health Administration (OSHA), for the location of the proposed work. The contractor shall employ only competent and efficient laborers, operators and tradesmen for every kind of work, and whenever, in the opinion of the City Engineer, any person is unfit to perform their task, or does their work contrary to directions, or conducts themselves improperly, the contractor must discharge that person immediately and not employ that person again on the work.
- All equipment operators and workers performing work at the proposed location shall hold, in good standing, the appropriate State of Rhode Island licenses for their responsibilities.
- OSHA certified ten (10) hour construction safety program is required for all on-site employees.
- Contractor shall make application for a permit in the Engineering Division for the work to be performed City wide.
- All required licenses and certificates for all workers shall be copied in color and supplied to the Engineering Division upon submitting a 'Permit Application'. All required licenses and certificates for work being performed shall be in the possession of the person(s) while performing the work.

SECTION 6

SAFETY:

All Federal, State and Local safety regulations shall be followed.

Contractor must follow the City of Woonsocket regulations and policies as set forth in the Department of Public Works, Engineering Division 'Permit Manual'.

A copy of which can be obtained in the Engineering Division or on the City web site at:

www.ci.woonsocket.ri.us/perm_sched.htm

The contractor shall assume responsibility for risks and casualties of every description, for loss or injury to persons and property arising out of the nature of the work, from the action of the elements or from any unforeseen or unusual difficulty.

SECTION 7

WORK SCHEDULE:

The Contractor shall commence work within fourteen (14) days after receiving a work list and continue the work until the list is completed. If additional work lists are received before the work is completed, the Contractor shall continue work on the lists in the order they are received until all the work lists have been completed, unless otherwise directed by the Director.

By the Friday of each week or the day before a holiday all open work locations shall be completed and construction debris properly disposed.

SECTION 8

WEATHER LIMITATIONS

RESTRICTIONS

Asphalt shall not be placed on any wet surface, or when the weather conditions otherwise prevent the proper handling or finishing of the bituminous mixtures.

Bituminous mixtures may not be placed if any of the following conditions exist unless otherwise directed by the City Engineer:

- a) When the underlying layer contains frozen moisture.
- b) When the temperature of the underlying layer, in the shade and away from any source of heat, is below 32 degrees Fahrenheit.
- c) When this temperature is below 40 degrees Fahrenheit and the thickness of the lift to be placed is 1-½ inches.

SECTION 9

METHOD OF MEASUREMENT AND PAYMENT:

The gravel bedding used for the sub-base will be paid based on the cubic yards installed. Price shall constitute full compensation for all labor, materials, equipment, tools and all other incidentals necessary to remove, dispose and install as specified.

The asphalt will be paid based on square yards installed for the Bituminous Binder (a.k.a. Intermediate Course) (modified type) and the Bituminous Surface (a.k.a. Wearing Course) (Type I-1). Price shall constitute full compensation for all labor, materials, equipment, tools and all other incidentals necessary to remove, dispose and permanently asphalt patch as specified.

Payments shall be made within 60 working days after receipt of an itemized invoice as well as certified payroll of all employees performing said work. No payment shall be made for items not ordered or for cancelled items, nor for necessary incidental work considered by the City of Woonsocket to be included in the unit prices bid.

SECTION 10

GUARANTEE:

The contractor or his sureties will be held liable for keeping in perfect repair, adjustment and good order, the whole of the work to be constructed under this contract, and for other damages that may occur by reason of the construction. Should it be necessary to excavate the utilities before formal acceptance for any reason, the City will not accept any charges from the bidder deemed part of the original scope of work.

Neither the final certificate of payment nor any provision of the Contract Documents nor partial or entire occupancy of the premises shall constitute acceptance of the work specified in the Contract Documents or relieve the Contractor of liability with respect to any express warranties or responsibility for faulty workmanship. The Contractor shall remedy any defects in the work and pay for any damage to other work, resulting from his operations, within a period of thirty days (30) from the date of completion of that of that portion of the work and not necessarily from the expiration date of the Contract. The City shall give notice of observed defects with reasonable promptness.

**CITY OF WOONSOCKET
RHODE ISLAND
FINANCE DEPARTMENT**

BID PROPOSAL

The undersigned bidder proposes to furnish all labor, equipment and related incidentals, other related work and overhead items for the "Removal, Disposal and Installation of Asphalt Patching" for the City of Woonsocket, Rhode Island. The contract term will be for a one (1) year period.

CERTIFICATION SUMMARY:

The bidder declares that this proposal is made without connection with any other person(s) making proposals for the same specifications and is in all respects fair and without collusion or fraud.

The bidder further declares that, except in the normal discharge of his/her duties, no person acting for or employed by the City of Woonsocket has direct or indirect interest in the proposal or in any of the profits thereof.

The bidder certifies that the above statements are accurate and true and has carefully examined and read all of the specifications and the contract provisions and understands that it affects the acceptability of my proposal(s).

AUTHORITY TO CONTRACT:

Offeror and the Principal signing on its behalf, certify that it is validly organized with authority to do business and perform the terms hereunder, is qualified to do business in Rhode Island, if applicable, and is not prohibited from entering into or performing the terms of this agreement for any reason.

CONFLICT OF INTEREST:

Any Offeror responding to this Invitation to Bid are required to disclose any potential conflict of interest. If the owner of the bidding firm is related to a City of Woonsocket employee, that relationship must be disclosed in writing and made a part of the bid response. Definition Related Person: Related person to a City of Woonsocket employee means a spouse or dependent child of such employee. The term extends to other individuals sharing the same household as well as siblings, parents and non-dependent children (including step and in-law variations of those relationships) in circumstances where the City of Woonsocket employee has actual knowledge that such relative is likely to or will benefit from a particular City of Woonsocket transaction.

**CITY OF WOONSOCKET
RHODE ISLAND
FINANCE DEPARTMENT
PROPOSAL**

ITEM	DESCRIPTION	Patch Size S.Y.	Unit Price per S.Y.
1	TYPE I PERMANENT PAVEMENT PATCH 8" Bituminous Binder (Modified Type) 2" Bituminous Surface, Type I -1	0 - 6 SY	
		6.01 - 12 SY	
		12.01 - 50 SY	
		50.01 - 100 SY	
		100.01 SY +	
2	TYPE II PERMANENT PAVEMENT PATCH 6" Bituminous Binder (Modified Type) 2" Bituminous Surface, Type I -1	0 - 6 SY	
		6.01 - 12 SY	
		12.01 - 50 SY	
		50.01 - 100 SY	
		100.01 SY +	
3	TYPE II-A PERMANENT PAVEMENT PATCH 3" Bituminous Binder (Modified Type) 2" Bituminous Surface, Type I -1	0 - 6 SY	
		6.01 - 12 SY	
		12.01 - 50 SY	
		50.01 - 100 SY	
		100.01 SY +	
4	TYPE II-B PERMANENT PAVEMENT PATCH 2" Bituminous Binder (Modified Type) 2" Bituminous Surface, Type I -1	0 - 6 SY	
		6.01 - 12 SY	
		12.01 - 50 SY	
		50.01 - 100 SY	
		100.01 SY +	

PROPOSAL (Cont'd)

ITEM	DESCRIPTION	Patch Size S.Y.	Unit Price per S.Y.
5	TYPE II-C PERMANENT PAVEMENT PATCH 4" Bituminous Binder (Modified Type) 2" Bituminous Surface, Type I -1	0 - 6 SY	
		6.01 - 12 SY	
		12.01 - 50 SY	
		50.01 - 100 SY	
		100.01 SY +	
6	TYPE III PERMANENT PAVEMENT PATCH 1 1/2" Bituminous Binder (Modified Type) 1 1/2" Bituminous Surface, Type I -1	0 - 6 SY	
		6.01 - 12 SY	
		12.01 - 50 SY	
		50.01 - 100 SY	
		100.01 SY +	
7	TYPE III-A PERMANENT PAVEMENT PATCH 2" Bituminous Surface, Type I -1	0 - 6 SY	
		6.01 - 12 SY	
		12.01 - 50 SY	
		50.01 - 100 SY	
		100.01 SY +	

ITEM	DESCRIPTION	Patch Size	Unit Price
8	Crack Sealant	FT	
9	Modified Cape Cod Berm, as directed	LF	
10	Excavate unsuitable material sub-grade, as directed	CY	
11	Excavate rock and/or ledge below sub-grade, as directed	CY	
12	Furnish & install approved gravel to the proper sub-grade, as directed	CY	

PROPOSAL (Cont'd)

ITEM	DESCRIPTION	Patch Size	Unit Price
13	Remove and Reset existing curbing, only as directed	LF	
14	Raise to grade valve box(es), only as directed	EA	
15	Infrared Repairs/Restoration	SY	
16	Line striping restoration, Centerline (single)/ Fog line	LF	
17	Line striping restoration, Centerline (double)/ Stop line/or Crosswalk	LF	
18	Line striping restoration, Arrow Pavement Markings	EA	
19	Furnish & Install 4" of loam & seed, as directed	CY	
20	Materials needed above & beyond required as approved/directed	As Required	Cost Plus 10%
21	Police Detail	As Required	Cost Plus 10%
22	Police Cruiser	As Required	Cost Only

**CITY OF WOONSOCKET, RI
FINANCE DEPARTMENT
OFFICE OF PURCHASING**

SIGNATURE PAGE

We, the undersigned, submit this proposal for Removal, Disposal and Installation of Asphalt Patching, Bid No. 6199 and certify and agree to all the terms and conditions contained herein .

COMPANY NAME:	
ADDRESS:	
CITY, STATE ZIP:	
PHONE:	
EMAIL:	
PRINT NAME:	
TITLE:	
SIGNATURE:	
DATE:	

ATTACHMENT “A”

BITUMINOUS CONCRETE PAVEMENT COURSE THICKNESS CHART

USE “PAVEMENT TYPES ATTACHMENT A” PDF FILE

	<u>Intermediate Course</u>	<u>Wearing Course</u>
Driveway	2”	1”
Sidewalk	1”	1”

** Bituminous intermediate course(s) in all road types shall have nominal maximum aggregate size of ¾”

NOTE: Thickness depths are measured after compaction

CITY OF WOONSOCKET, ENGINEERING DIVISION

KEY TO PAVEMENT TYPES



TYPE I

2" BITUMINOUS WEARING COURSE (CLASS 9.5)
2" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
2" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
2" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
2" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
6" SUB-BASE COURSE (GRAVEL)

TYPE II-B

2" BITUMINOUS INTERMEDIATE COURSE (CLASS 9.5)
2" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
12" SUB-BASE COURSE (GRAVEL)

TYPE II-C

2" BITUMINOUS INTERMEDIATE COURSE (CLASS 9.5)
2" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
2" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
6" SUB-BASE COURSE (GRAVEL)

TYPE II

2" BITUMINOUS WEARING COURSE (CLASS 9.5)
2" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
2" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
2" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
12" SUB-BASE COURSE (GRAVEL)

TYPE III

1 ½" BITUMINOUS WEARING COURSE (CLASS 9.5)
1 ½" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
12" SUB-BASE COURSE (GRAVEL)

TYPE II-A

2" BITUMINOUS WEARING COURSE (CLASS 9.5)
1 ½" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
1 ½" BITUMINOUS INTERMEDIATE COURSE (CLASS 12.5)
12" SUB-BASE COURSE (GRAVEL)

TYPE III-A

2" BITUMINOUS WEARING COURSE (CLASS 9.5)
12" SUB-BASE COURSE (GRAVEL)