



Town of North Providence

Roadway Pavement Rehabilitation Bid Specifications

Bids will be received at the Office of the Purchasing Agent, 2000 Smith Street, North Providence, Rhode Island, ground floor, until 9:45 A.M on February 20, 2019. Bids will be opened at 10:00 a.m.

Bids must be sealed and plainly marked on the outside of the envelope what is being bid upon.

The Purchasing Board reserves the right to reject any and all bids, to waive any informality in the bids received and to accept the bid deemed the lowest evaluated and most favorable to the interest of the Town.

Bid Blank

Approximate Quantity	Unit Measure	Item Number and Description	Total Unit Bid Price
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30,000 S.Y. A1. Remove & dispose bituminous concrete surface course reclamation

\$ _____ per S.Y. X 30,000) \$ _____

Unit Price in words: _____

1,000 S.Y. BIB. Excavate, remove, and dispose of existing bituminous concrete surface from curb or shoulders.

\$ _____ per S.Y. (x 1,000) \$ _____

Unit Price in words: _____

5,000 S.Y. B2. Remove & dispose bituminous concrete surface course, 0" – 2" by cold planning up to 6 feet from curb, berm, or shoulder.

\$ _____ per S.Y. (x 5,000) \$ _____

Price in words: _____

1,000 S.Y. Cl. Remove & dispose existing pavement at intersections & terminations.

\$ _____ per S.Y.(x 1000) \$ _____

Unit Price in words: _____

2,500 L.F. D. Cut & match pavements at intersections and terminations.

\$ _____ per L. F. (x 2500) \$ _____

Unit Price in words: _____

3,000 Ton E. Furnish & Install/lay Bituminous Concrete Surface Course Type I-1 at 1 1/2" depth including preparation

\$ _____ @ per Ton (X 3,000) \$ _____

Unit Price in words: _____

Approximate Unit Quantity Measure Item Number and Description Total Unit Bid Price

50,000 S.Y. F. Furnish and lay Tack Coat.

\$ _____ per S.Y.(x 50,000) \$ _____

Unit Price in words: _____

50,000 S.Y. G. Mechanical Sweeping

\$ _____ per S.Y.(x 50,000) \$ _____

Unit Price in words: _____

1,000 Tons. H. Level existing roadway concrete prior to overlay

\$ _____ per tons (X 1,000) \$ _____

Unit Price in words: _____

1,500 Tons I. Furnish & Install/lay Bituminous Concrete Modified Binder Course at 1 1/2" depth including preparation.

\$ _____ per ton (1,500) \$ _____

Unit Price in words: _____

1,000 L.F. J. Construct Cape Cod Berm (asphalt)

\$ _____ per L.F.(X 1,000) \$ _____

Unit Price in words: _____

1,000 L.F. K. Construct standard 6" bituminous lip curb.

\$ _____ per L.F. (X 1,000) \$ _____

Unit price in words: _____

246 Each L. Reset manhole frames and covers and gutter grates to grade.

\$ _____ -Each (x 246) \$ _____

Unit Price in words: _____

Approximate Unit
Quantity Measure and Description Total Unit Bid Price

50 Each L1 Provide and install 1" – 2" manhole adjusting rings
\$ _____ -Each (x 50) \$ _____

Unit price in words: _____

140 Each M. Furnish & install water gate adapters.
\$ _____ -Each (x 140) \$ _____

Unit Price in words: _____

100 Each N. Adjust water gate structures, 18".
\$ _____ Each (X 100) \$ _____

Unit Price in words: _____

350 C.Y. O. Furnish, place, grade and compact processed gravel for adjustments to existing road base
\$ _____ Each C.Y. (X 350) \$ _____

Unit Price in words: _____

1 Ton P. Furnish & spread Calcium Chloride for dust control.
\$ _____ per ton

Unit Price in words: _____

Total of Bid Items with Approximate Quantities stated:
Lettered A1, B1, B2, C1, D, E, F, G, H, I, J, K, L, M, N, O, and P.
\$ _____

Bidder Name: _____

INFORMATION

1. Receipts and Opening of Proposals:

Sealed proposals (bids) will be accepted in the office of the Purchasing Agent, Town Hall, 2000 Smith Street, North Providence, R. I. until the time indicated in the Invitation for Bids, for the services designated in the Specifications and will then be publicly opened and read. No bids received thereafter will be considered.

2. Form of Bid:

Proposals must be submitted on and in accordance with the bid proposal form included hereto, blank places must be filled in as noted, no change shall be made in the phraseology or in the item or items mentioned therein, all proposals must contain the name and proper address of the bidding firm and must be signed by a responsible member of the firm with their signature and official title. Proposals which are not complete, or contain any omissions, erasures, alterations, addition or contain irregularities of any kind, may be rejected as informal.

3. Submission of Bids:

(a) Envelopes containing bids must be sealed and addressed to the office of the Purchasing Agent, and must be marked with the name and address of bidder, date and hour of bid opening, and name of item in bid call.

(b) The Purchasing Agent will decide when the specified time has arrived to open bids, and no bid received thereafter will be considered.

(c) Any bidder may withdraw their bid by written request at any time prior to the advertised time for opening. Facsimile bids, amendments, or withdrawals will not be accepted.

(d) No bid may be withdrawn for a period of thirty (30) DAYS from the date and time of opening.

(e) Negligence on the part of the bidder in preparing the bid confers no rights for the withdrawal of the bid after it has been opened.

(f) Proposals received prior to the time of opening will be securely kept, unopened. No responsibility will be attached to an officer or person for the premature opening of a proposal not properly addressed and identified.

(g) Two (2) copies of all documentation submitted.

(h) Bidders must have submitted a bidder information form to the North Providence Office of the Purchasing Agent upon receipt of specifications.

4. Acceptance or Rejection of Bid Proposal:

The Town reserves the right to award the bid by item and further reserves the right to reject any and all proposals or parts thereof, to waive any informality in the proposals received and to accept the proposal, or parts thereof, which it deems to be most favorable or in the best interest of the Town.

5. Qualifications of Bidder:

The Town may make such investigations as it deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Town all such information and data for this purpose as the Town may request. The Town reserves the right to reject any bid if the evidence submitted by, or investigation of such bidder fails to satisfy the Town that such bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein.

6. Commencement of Contract:

The successful bidder shall commence work as specified and complete all work as specified.

7. Bid Prices:

Bidders shall state the proposed bid prices in the manner as designated in the Bid Proposal. In the event there is a discrepancy between the price written in words and in figures, the prices written in words shall govern.

8. Indemnification:

The Contractor shall hold harmless, defend, and indemnify the Town and its officers, agents, and employees against all claims, demands, actions, and suits (including all attorney fees and costs) brought against any of them arising from the Contractor's work or any subcontractor's work under the contract.

9. Insurance:

The Contractor shall carry the following insurance at their own expense:

(a) General: All insurance for this contract shall be written by company (or companies) acceptable to the Town and all policies or certificates shall be submitted to the Town for examination prior to commencement of operations by the Contractor. In the event any policy or certificate, the amount of the insurance, or the company writing same are not satisfactory to the Town, the Contractor shall secure other policies or certificates in form and amount and with a company satisfactory to the Town. The Contractor shall not permit policies to be changed, cancelled, or to lapse and all policies shall include a clause to the effect that the policy shall not be subject to cancellation or a reduction in the limits of liability or amounts of insurance until notice has been sent by certified mail to the Town stating when, (not less than thirty (30) days thereafter) such cancellation or reduction shall be effective. All certificates of insurance shall be delivered to the Town contain true transcripts from the policy or policies, authenticated by the proper officer of the insurer evidencing in particular those insured, the extent of the insurance, the location and operations to which the insurance applies, the expiration date and the above-mentioned notice of cancellation clause and including the Town as an additional insured as to the operations involved.

If any part of the contract is sublet, similar insurance shall be provided by or in behalf of the subcontractors to cover their operations. The Contractor shall be charged with the responsibility for insurance protection for all their subcontract operations and should the contractor's policy not cover each and every subcontractor, certificates of insurance acceptable to the Town covering each and every subcontractor shall be filed with said Town prior to the commencement of subcontract operations.

(b) Workers' Compensation Insurance: The Contractor shall obtain workers, compensation insurance coverage for all of its workers, employees and subcontractors either as a carrier-insured employer or a self-insured employer, as provided by State of Rhode Island Statutes. The Contractor shall maintain worker's compensation insurance coverage for the duration of the contract.

In the event the Contractor's worker' compensation insurance coverage expires during the term of the contract, the Contractor shall renew said insurance, either as a carrier-insured employer or a self-insured employer, before its expiration, and the Contractor shall provide the Town with further certification of workers, compensation insurance as renewals of said insurance occur.

(c) Comprehensive General Liability and Property Damage Insurance including Contractual Liability: The Contractor shall maintain general liability and property damage insurance that protects the Contractor and the Town and its officers, agents, and employees from any and all claims, demands, actions, and suits for damage to property or personal injury, including death, arising from the Contractor's work under the contract.

- (1) Bodily injury including accidental death-each person \$5,000,000.
- (2) Bodily injury including accidental death-each occurrence \$5,000,000.
- (3) Property Damage - each occurrence \$5,000,000.
- (4) Property Damage - aggregate during any twelve (12) months period \$5,000,000.
- (5) Comprehensive Contractor's Protective Liability, same coverage as in paragraphs (i - 5) above.
- (6) Contractor maintain during the extent of this agreement, Builders Risk Insurance with extended coverage in an amount not less then the full insurable insurable value of work. Any loss payments will made payable to the Town of North Providence and the Contractor.
- (7) Operations - premises Liability
- (8) Independent Contractor's/Town's Protective Liability
- (9) Completed Operations and products Liability
- (10) Contractual Liability

(d) Comprehensive Automobile Liability: covering all vehicles used by the Contractor in the course of the work including owned, non-owned and hired.

- (1) Bodily injury including accidental death each person \$5,000,000.
- (2) Bodily injury including accidental death-each occurrence \$5,000,000.
- (3) Property Damage - each occurrence \$5,000,000.

10. Wages and Labor:

The Contractor shall comply with the applicable provisions of Title 37, Chapter 13, as amended, General Laws of Rhode Island (1977 Reenactment) Prevailing Wages and Davis Bacon Act.

11. Safety and Health Regulations:

All work contemplated is to be governed, at all times, by applicable provisions of Federal, State of Rhode Island and Town laws, regulations, and ordinances.

12. Foreign Corporations:

Attention of bidders is hereby directed to excerpts from Chapters 1 to 6 of Title 7 of the General Laws of Rhode Island, 1956, as amended, relative to the conditions precedent, etc. to carrying on business within this State for foreign corporations.

13. Permits & License:

Contractor shall be licensed by and allowed to conduct Business in the State of Rhode Island and the Town of North Providence. All fees associated with the submittal of plans, designs or any other fee for approval of proposed work shall be at the cost of the Contractor.

14. Performance Bond

Contractor shall provide at time of bid award a performance bond for 100% of total job estimated cost by a company acceptable by the Town of North Providence and authorized by the State of Rhode Island to provide said bond.

15. Bid Bond

A bid bond in the amount of five percent of total bid as stated shall accompany bid. Bid bond shall be forfeited if contractor fails to start work as specified or fails to complete a contract as specified herein.

16. Bid Evaluation:

This is an evaluated bid. Bids will be evaluated on the following criteria using a weighted scale:

Experience in Field	10%
Previous Performance	10%
Bid Amount	50%
Credentials/Qualifications	10%
Ability to Perform Described Services	20%

TOWN OF NORTH PROVIDENCE
Department of Public Works
Request for Sealed Bids:
Roadway Rehabilitation Specifications

The Town of North Providence, Department of Public Works requests Sealed Bids for fiscal year 2019/2020 through fiscal year 2021/2022) for Roadway Rehabilitation. This bid shall consist of roadway cold planning, pulverizing, furnishing and installation of Bituminous Concrete Surface Course (Hot Mix) Class I -1, and incidentals.

It is anticipated that Town Public Works personnel may elect to truck away and dispose cold planned bituminous material. Unit bids shall also be given in which the vendor shall be responsible for trucking and disposing of cold planned bituminous material as well as mechanically sweep the roadway prior to tack coat application. Refer to the bid form list of items.

Prices quoted shall remain in effect for the entire fiscal year. The Town may choose to extend this agreement for a second and third year with the agreement of the contractor. The Town may elect to increase or decrease the bid amounts according to CPI index upon extension. Amounts and or quantities mentioned on bid form are estimated for information purposes only for the current fiscal year. The Town has a limited amount of funding for this project, therefore actual amounts and quantities will be dependent on bid amount.

All batch plants and all mixes shall be approved by the State of Rhode Island. Additionally, all plants and all mixes shall conform to Rhode Island Air Pollution Control Regulation No. 25, entitled "Control of Volatile Organic Compound Emissions from Cutback and Emulsified Asphalt." Additionally specifications regarding cold planning, materials, construction methods, equipment, mixture formula, automation and recordation, and composition are detailed on the following pages. Measurement for payment shall be as detailed in section 6A.5.

Bidders availability to conduct cold planning, pulverizing, and/or overlay work shall be within seventy-two (72) hours notice, or three working days.

Any questions regarding this Request for Bid may be addressed to Purchasing Agent, (FAX 401 231-9855).

Police and or flaggers shall be provided by the Town at the Town's expense when advised by contractor or determined by the Town to be necessary.

The Town may elect to retain the reclaimed material. Contractor must transport reclaimed material to a location specified by the Town within the Town.

General Provisions
Technical Specifications

- A. In the absence of specific requirements for methods of construction or material to be used, the provisions of the State of Rhode Island and Providence Plantations Department of Transportation, Division of Public Works, Standard Specifications for Road and Bridge Construction, Revision of 2004 and in all subsequent addendum will be applicable.
- B. The contractor will be responsible at his expense to protect and restore to original condition, if damaged by his operations, any abutting fences or any other structures.
- C. The contractor's attention is called specifically to all regulations of working hours in residential areas. The contractor shall perform his operations in such a manner so as to inconvenience businesses/residences in the area as little as possible.

The contractor will provide at his own expense, all necessary temporary signs, barricades, and all safety precaution devices. The contractor will also provide, at his own expense, all temporary vehicular and pedestrian accesses at all times.

The contractor will be responsible for informing all private utility companies prior to performing any excavation or any operation in order to locate their lines, conduits, pipes, or any other structures which may fall in the area of his operation. Should the contractor fail to comply with the above, any injuries, death, property damage, including the contractor's employees and property will be solely the responsibility and liability of the contractor.

SECTION 1
SITE PREPARATION

SCOPE

The work included under this section shall consist of removing and disposing of sidewalks, roadway pavement, trees, and miscellaneous walls and clearing and grubbing, each in accordance with these specifications or as directed by the Engineer. Any damage to existing utility components, drainage structures or other miscellaneous items caused by neglect or carelessness on the part of the contractor, shall be repaired immediately in a manner satisfactory to the Engineer. All work shall be performed by methods acceptable to the Engineer and shall be scheduled and accomplished so as to inconvenience abutting property owners as little as possible.

CONSTRUCTION METHODS

a. Removal of Roadway and sidewalk Pavements-Asphalt and concrete sidewalks and roadway pavement (gutters, etc.) shall be removed and legally disposed of by the Contractor (off-site). Where or if the remainder of the existing pavement or sidewalk is to remain undisturbed, a clean saw cut shall be made to separate the remaining pavement from that being removed. The cost of the saw cut, in all cases, shall be included in the payment for removal of the pavement. A critical concern is that the street paving shall be installed such that street surface properties. The Town shall be notified of any areas where this condition cannot be achieved within this restoration contract.

BITUMINOUS PAVEMENT
RESURFACING AND/OR REMOVAL

SCOPE

The work covered under this contract shall include the furnishing of all labor, equipment and materials and performing all operations in connection with the resurfacing of various streets in the course, Class I, Type I-1.

Also covered under this item shall be the removal and disposal of a minimum of 1 1/2 inches of bituminous surface on various streets in the Town of North Providence, such work shall consist of preparing a foundation for the placement of 1 1/2 inch bituminous surface course, Class I, Type I - 1.

Also the Contractor shall sweep and clean the entire roadway surface and/or gutter area prior to resurfacing.

In addition to the above, an average of 1" nominal leveling course could be required on certain streets and areas prior to the 1 1/2 inch bitumous surface course.

All work shall be done to the satisfaction of the Town.

MATERIALS

All materials shall conform to the provisions of Section M.01 of the State of Rhode Island and Providence Plantations, Department of Transportation, Division of Public Works, Standard Specifications subsequent Addenda. All materials and procedures specified shall meet the applicable requirements of these standards except as modified herein. All bituminous mixtures shall be batched at a state approved plant.

CONSTRUCTION METHODS

a. The planed surface shall conform generally to the grade and cross slope required and be free from being torn, gouged, shoved, broken, or excessively grooved. The surface shall be free of imperfections of workmanship that will prevent the surface from being resurfaced with new pavement following this operation. Surface texture shall be rough grooved or as specified by the Engineer, and in all cases shall be acceptable to traffic in the event resurfacing is delayed.

No asphalt cuttings shall remain on the project at the end of each workday. Asphalt cuttings loosened and directed removed shall become the property of the Contractor and shall be disposed off-site by the Contractor.

b. The 1-1 ½" bituminous asphalt and surface courses shall complete the required pavement construction sequence and shall leave the surface true to the line and grade indicated on the drawings or as directed by the Engineer. The hot laid, bituminous material shall be installed in accordance with the following:

Bituminous asphalt shall not be placed on any wet surface or when the air temperature is below 50 degrees F and rising., or when weather conditions otherwise prevent the proper handling of finishing of the mixture. In certain conditions and only by written approval from the Engineer the following weather limitation will be permitted:

Bituminous asphalt shall not be place on any wet surface or when weather conditions otherwise prevent the proper handling or finishing of the bituminous mixtures. When paving under other than normal conditions, the following criteria shall apply:

1. The ideal temperature for initial compaction of hot mix is 305 degrees F (ranging 285-325).
2. All compaction shall be completed before the temperature of the material drops below 175 degrees as measured by an infrared electronic thermometer.
3. The typical time that shall elapse between spreading and rolling shall not exceed fifteen minutes.
4. Traffic shall be allowed when mat cools to at least 140 degrees F.

Bituminous pavers shall be used for street paving and shall be self-contained, power-propelled units provided with an automated screed or strike off assembly, heated if necessary, and capable of spreading and finishing courses of bituminous plant mix material in lane widths applicable to the typical section and thickness shown on the drawings.

The course shall be thoroughly and uniformly compacted by use of power driven rollers, mechanically wetted, and weighing not less than 10 tons each. Rolling shall proceed at a uniform rate and continued until all roller marks, ridges, porous spots and impressions have been eliminated, no further compression is possible, and the surface conforms with the specified line and grade.

Spreading by hand will be allowed in special patch areas (along curb lines and at driveway entrances) provided that the material is immediately spread following delivery by means of hot rolling is not practical, due to the proximity of curbstones or other structures, the material may be compacted and the surface irregularities adjusted by use of mechanical tampers. Any mixture that becomes loose and broken mixed with dirt, or is in any way defective shall be removed and replaced to conform with the surrounding area.

In all cases and for all lifts the following temperatures shall govern during mixing and spreading operation

Plant Temperature

Aggregate: 300 - 375 F

Bit Cement: 250 - 350 F

Mixture at Plant 275 - 375 F

Street Temperature

Min. (binder only) 250 F

Ideal: 310 - 325 F

Maximum: 375 F

The Contractor shall conform to all RIDOT requirements for pavement operations, including compaction.

c. The Contractor shall cut and Match cuts in highway pavement to the full-specified depth of the course or courses. In removing existing pavement, top course or base course, or combination thereof, the sections as to be removed shall be out to the heat lines shown on the plans or as directed by the Engineer, and any existing pavement beyond the heat lines so established, which is damaged, injured or destroyed by the Contractor's prosecution of the work shall be replaced by the Contractor without additional compensation therefore.

The term "Cut and Match" as used herein is defined as the cutting and matching of asphaltic concrete highway pavements and does not include matching of water bound macadam, penetration macadam, or adjacent sidewalk pavements, payments, payment for which is included in the unit price for the several kinds of work.

d. Joints - The mixture shall be placed as near continuous as possible and in such a manner as to keep to minimum the number of joints at the end of each day's work.

EQUIPMENT

The equipment for removing the bituminous surface shall be a power operated planning machine or grinder capable of removing in one pass, a layer of bituminous material. The equipment shall be from either the existing pavement or from an independent grade control and shall have a positive means for removing excess material from the surface and for preventing any dust resulting from the operation from escaping into the air. Special size equipment will be required for pavement removal adjacent to curbing and drainage and utilities structures.

The equipment furnished by the Contractor shall be in good repair and shall be maintained so as to produce a clean cut to the pavement at all times.

MEASUREMENTS AND PAYMENT

"Removing Bituminous Surface - Cold Planning," will be measured on a square yard basis complete in place. This price shall include full compensation for all items of work, labor, equipment, tools and other incidentals necessary for the satisfactory completion of this work as outlined, including disposal off - site.

Payment for the pavement laid shall be in accordance with the unit bid prices per ton as stated in the proposal.

Payment for sweeping and cleaning of roadways is paid for as part of Bituminous Pavement operations.

Payment for other listed bid items shall be in accordance with the unit bid prices or that particular item.

BITUMINOUS CONCRETE MATERIAL

SPECIFICATIONS

In the absence of specific requirements for methods of construction or materials to be used, the provisions of Section M.03 of the State of Rhode Island, Dept. of Transportation, Division of Public Works, Standard Specifications for Road and Bridge Construction, Revision of 1971, and in all subsequent addenda will be applicable.

Bidder shall be required to comply with Rhode Island Air Pollution Control Regulation No. 25, entitled "Control of Volatile Organic Compound Emissions from Cutback and Emulsified Asphalt".

GENERAL REQUIREMENTS - Mixture Formula

1. Formula for Job Mix:

The bidder shall supply, as part of his offer, his intended job mix formulas, indicating in writing the single definite percentage for each sieve fraction of aggregate, and for asphalt, which he chooses as the fixed mean in each instance, and also the temperature at which he proposes to supply the mixture to city trucks at the plant. The submission of such mix formulas shall, upon approval and thereafter, bind the bidder to furnish paving mixtures not only within the master ranges, but, as a further requirement, also meeting the formulas thus set up, within allowable tolerances of plus or minus one-half (1/2) percent for asphalt; plus or minus ten (10) percent for the one-quarter (1/4) inch and larger and smaller sieve requirements; and plus or minus for (4) percent for the No. 10 and smaller sieve requirements; and plus or minus twenty (20) degrees for delivery temperature of mixtures. Samples of the actual discretion of the Engineer, and the mixture must be maintained source of supply for materials is approved, the job mix formulas will be readjusted as necessary. Any job mix formulas will be readjusted as necessary. Any job mix formula submitted but found unacceptable shall be readjusted to the satisfaction of the Engineer.

2. Pavement Samples:

The contractor shall furnish for test, when required by the Engineer, samples cut from the completed work. The areas of pavement so removed shall be replaced with new mixture and refinished. No additional compensation will be allowed for furnishing test samples and replacing the areas with new pavement.

3. Inspection of Paving Plant Operation:

The Engineer shall have access at any time to all parts of the paving plant for the purpose of checking the adequacy of the equipment in use, inspecting the conditions and operation of the plant, for the verification of

weights or proportions and character of materials and for the determination and checking of temperatures being maintained in the preparation of the mixtures.

AUTOMATION AND RECORDATION

Plants producing bituminous concrete for Town of North Providence paving projects including new construction, resurfacing and maintenance shall conform to the following plant equipment requirements

A. Automatic Proportioning

Bituminous concrete shall be produced in batch type mixing plants equipped with approved automatic proportioning devices. Such of the various components of the mixture by weight or volume in the proper sequence. Bitumen and aggregates shall be proportioned by volume or weight. Additives, if required, may be proportioned by volume or weight. The plant shall be equipped to automatically control the sequence and timing of mixing operations. There shall be auxiliary interlock cutoff circuits to interrupt and stop the automatic cycling of the batching operations at any time an error in weighing occurs, when the aggregate bin becomes empty or when there is a malfunction of any portion of the control system.

B. Recording Equipment.

The plant shall be equipped with a digital recording, which will automatically print the following data on delivery tickets:

1. Batch weights of each size aggregate. Weights printed may be individual or accumulative.
2. Total weight of aggregates in batch. The weight printed may be last aggregate batched shall be the total weight of aggregates in the batch when accumulative weight of aggregates in the batch when accumulative weights are used.
3. Weight of bitumen.
4. Weight of total batch.
5. Total weight of batches in truck.
6. Date mixed.
7. Time of each batch or load.

There shall be sufficient copies deliveries to provide a copy for the plant inspector and a copy to be picked up at the job site. The following information shall also be included on delivery slips:

1. Name of customer.
2. Name of street
3. Truck number
4. Mixture.
5. Additives, if required.

C. Equipment Failure

If at any time the automatic proportioning or recording devices become inoperative, the plant may be allowed to batch and mix bituminous materials for a period of not more than two normal work days from the time of the breakdown if approved by the periods of operation without automatic proportioning facilities longer that two normal work days.

D. Scales.

Scales for any weigh box or hopper shall be of the spring less dial type, having full complement of index pointers and shall be of a standard make and design. They shall be accurate to 0.50 percent, have minimum graduations not greater than .50 percent and shall be readable and sensitive to .25 percent or less, the preceding percentages based on total batch weight. Scales shall be so located as to be easily readable from the operator's normal workstation.

E. Temperature Table:

Temperature ranges for City mixtures are given in the following table:

PLANT TEMPERATURES

AGGREGATE ASPHALT CEMENT MIXTURE AT PLANT

300-375 F 250-350 F 280-375 F

NOTE: Temperatures given are for normal summer time air conditions. At the colder extremes the "ideal" temperature should be increased ten (10) percent. The control of temperatures shall be under the jurisdiction of the Engineer.

If tests of pavement samples from the completed work show that the materials do not conform to the specifications, the pavement mixture shall be replaced at the expense of the contractor.

COMPOSITION

The job mix formula, meeting the "General Requirements for Asphalt Concrete Paving Mixtures" shall fall within the Attachment II composition limits by weight.

TACK COAT

All bituminous concrete overlays shall have a tack coat of SS-1 applied to the existing surfaces prior to application. The asphalt emulsion shall be diluted with equal parts of water to insure light even coverage and shall be applied by a self-propelled asphalt distributor, with re-circulating bars, at a rate and method not to exceed 0.05 gallons per square yard, and the ENTIRE surfaces to be overlaid shall be covered. The asphalt distributor shall be kept on the job site during the period of placing the overlays or until dismissed by the Director of Public Works, or his designee.

DRAINAGE STRUCTURES

SCOPE

This work shall consist of furnishing and installing all plant, labor, materials, supplies, equipment and appliances and in performing all operations in connection with adjusting catch basin frames and covers to grade in the sidewalk and roadway areas, resetting catch basin inlet or apron stones, furnishing and installing new granite inlet or apron stones and reconstructing existing granite top catch basins together with any cement mortar, brickwork and appurtenant work complete in place and accepted; to the details and dimensions indicated on the drawings, or as directed, and in accordance with the specifications. Also, included shall be the furnishing and installing of water gate adapters as well as the adjustment of water gate structures of various sizes.

MATERIALS

Stone for the inlet and apron shall conform to Section 4, Granite Curbing, and shall meet all requirements for North Providence Department of Public Works.

Brick shall conform in all respects to ASTM Designation C-32, Grade MA, No, 1, as amended to date.

Mortar shall consist of one (1) part Portland cement, two (2) parts sand with only sufficient water added to make a stiff plastic mortar of a consistency and texture satisfactory to the Engineer. Mortar shall be used within 45 minutes after its preparation.

Mortar Sand shall conform to the requirements of Town of North Providence Department of Public Works Standards.

Water Gate Adapters shall conform to the requirements of the local water supply or district.

MEASUREMENT AND PAYMENT

Adjusting catch basin frames and covers to grade (sidewalk and roadway areas), resetting catch basin inlet or apron stones, furnishing and installing granite inlet or apron stones and reconstructing existing granite top catch basins will be paid for at the unit price bid "Each" as listed in the bid for this item of work. This price and payment shall constitute full compensation for removing existing, raising and/or lowering the catch basin walls to the extent required for setting any of the above to the corrected grade as indicated or directed. Also included is all excavation, backfill compaction, cleaning, hauling, handling, placing, labor, materials, equipment, tool; plant, supplies, and for all incidentals and appurtenant work necessary for the satisfactory completion of the item as specified, as indicated, or as directed.

Furnishing and installing of water gate adapters and adjustment of water gate structures will be paid for at the unit price bid "Each" as listed in the bid item for this work.

BITUMINOUS BERM

DESCRIPTION: This item shall consist of the construction of bituminous berm as part of the asphalt pavement construction operation. The purpose of the bituminous berm is to control storm water runoff from pavement surfaces. Construction shall be according to the dimensions shown on the plans and Standard Detail 7.43 at the locations shown on the plans or as directed by the Engineer.

Note: In cases where berm is added onto an existing roadway, and there being no other adjacent paving works, then this specification shall not apply.

MATERIALS: The bituminous berm material shall meet the requirements of Class I-1 Bituminous Concrete Pavement, Section M.03.01 of the Standard Specifications.

The tack coat shall meet the requirements of Section M.03.06.4 of the Standard Specifications.

The highway joint sealant shall be listed on the Approved Materials list.

CONSTRUCTION METHODS: The bituminous berm shall be placed on the underlying pavement course in accordance with Method A or B as described herein.

Method A: The berm is placed at the same time as the asphalt surface course in one operation.

The underlying pavement shall be broom cleaned and tacked prior to placement. The bituminous berm will be placed in one lift and will be compacted by a smooth steel wheel roller of a type and weight acceptable to the Engineer.

Method B: The berm is placed independent of the asphalt surface course placement.

The berm shall be founded entirely on the base course. Any adjacent binder course and surface course shall be saw cut as required to form a true and even edge. The portion of the base course on which the berm is to be placed as well as any vertical saw cut edge shall be cleaned to the satisfaction of the Engineer and covered with an approved bituminous tack coat. The berm shall be placed in one layer and shall be compacted by a smooth wheel roller of a type and weight acceptable to the Engineer. After the berm is placed, the joint between the berm and the existing pavement shall be sealed with an approved highway joint sealant.

The quantity of Class I -1 used as bituminous berm material will be included in the pay item for Class I -1 surface course.

METHOD OF MEASUREMENT: The bituminous berm will be measured by the linear foot in accordance with Section 109 -Measurement and Payment of the Standard Specifications.

BASIS OF PAYMENT: The quantity of material used for bituminous berm will be included in the pay item for Class I - I surface course. The Class I -1 material will not be included in this pay item. This unit bid price will include all preparatory items required for proper placement of the berm, such as sawing, sealing, and bituminous tack coat; placement and compaction of the berm; sealing of the joints; and all other incidentals necessary to complete the work in a satisfactory manner.

CLEAN UP SCOPE

During its progress, the work and the adjacent areas affected thereby shall be kept clean and all debris, surplus materials, and unnecessary construction equipment shall be removed and all damage repaired so that the public and all property owners will be inconvenienced as little as possible.

Where material or debris has washed, flowed into or has been placed in water courses, ditches, gutters drains, drainage structures, or elsewhere as a result of the Contractor's operations, such material or debris shall be entirely removed and satisfactorily disposed of during progress of the work, and the ditches, water course gutters, drains and drainage structures, shall be maintained in a clean and original condition.

Upon completion of the work, the Contractor shall remove all temporary building and structures built by him, shall remove all temporary works, tools, and machinery or other construction equipment furnished by him; shall remove, acceptably disinfect, and cover all organic matter and material containing organic matter in, under, and around privies and other buildings used by him; shall remove all rubbish from any grounds which he has occupied; and shall leave the roads and all parts of the premises and adjacent property affected by his operations, in a neat and satisfactory condition.

The Contractor shall restore or replace, when and as directed, any public or private property damaged by his work, equipment or employees, to a condition at least equal to that existing immediately prior to the beginning of operations. To this end the Contractor shall do (as required) all necessary highway, driveway, walk, and landscaping work. Suitable materials, equipment, and methods shall be used for such restoration.

PAYMENT

No separate payment shall be made to the Contractor for clean-up work.

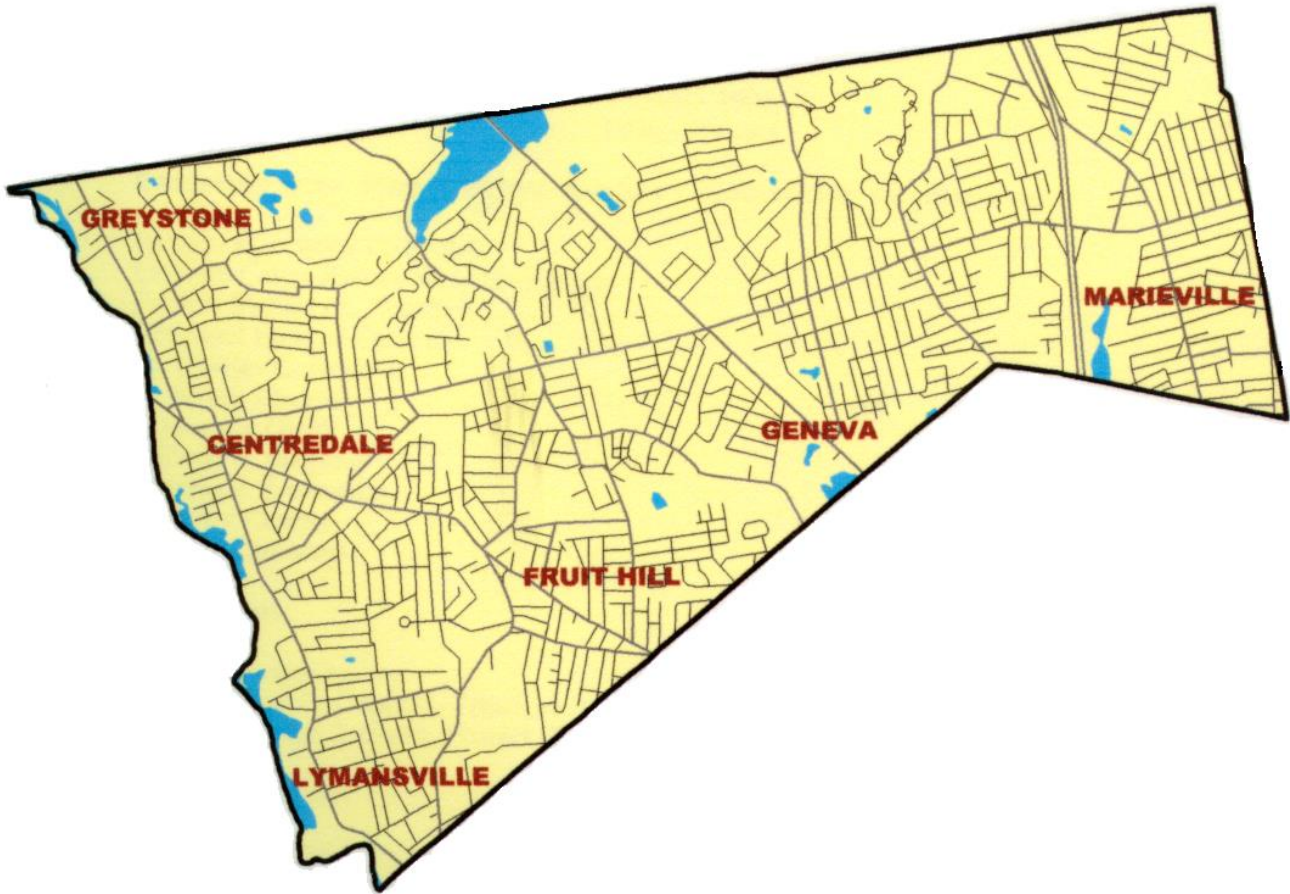
POLICE AND FLAGGERS

The Town shall provide Police and Flaggers as necessary at the Town's expense.

STREETS

Streets that are to be asphalted will be determined..

MAP OF TOWN:



ATTACHMENT II

% PASSING BY WEIGHT

MEDIUM TEXTURE SIEVE SIZE SHOULDER	BASE COURSE	DENSE BINDER COURSE	MODIFIED BINDER	TYPE 1-1	1-2 ORLIP SIDEWALK	FINE CURB	MIX TEXTURE	MODIFIED	PIANT MACADAM
1 1/2"	100						100		
1 1/4"		100					90-100		
1"		100					35-70		
3/4"	60-80	60-80	90-100	100			0-25	100	
1/3"				80-100	100	100	0-5	80-100	
3/8"	35-60	35-60	40-65	70-90	75-100	90-100		40-60	
#4				50-70	62-80	80-100	100	22-40	
#8	20-35	20-35	25-40	35-50	54-72	60-80	95-100	8-22	
#16							85-98		
#30				18-29	35-55	35-55	70-95		
#50	3-12	3-12	8-17	13-23	22-38	22-38	40-75		
#100				8-16	10-22	20-40			
#200	0-4	0-4	2-6	3-8	5-12	5-12	8-16	0-	
ASPHALT									
% by wt	3-6	3-6	4-6	6.5-8	7-9	7-10	7.5-12	2-4	4-6
Mar.									
Stab.*	750+	750+	750+	1000+	1000+	1000+	750+		750+
Voids	3-8	3-8	3-8	3-5	3-5	3-5			3-8
Flow in.			.08-.16	.08-.16	.08-.16	.08-.20			

*Marshall Stability in lbs./min.

In witness where of, the Contractor enters into this agreement with the Town of North Providence as per Bid Specifications dated June 1, 2016 and awarded June 1, 2017 by the North Providence Purchasing Board.

Contractor here by agrees to adhere to these terms and conditions. All documents pertaining to Insurance and performance bond, shall be submitted to the Purchasing Agents Office at the time of signing this agreement and shall provide copies to the Director of Public Works.

Town of North Providence, Rhode Island

By: _____

Mayor, Town of North Providence

Witness: _____

By: _____

Contractor, Authorized Agent

Name Printed: _____

Witness: _____

Date: _____