



Town of Salem NH
Municipal Services Department
Reconstruction/Adjusting Drain & Sewer Structures
RFQ (2019-009)

SALEM PURCHASING
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Prepared for and in coordination with the
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REQUEST FOR QUALIFICATIONS RECONSTRUCTING/ADJUSTING DRAIN AND SEWER STRUCTURES

You are cordially invited to submit a proposal for Reconstructing/Adjusting Drain and Sewer Structures in accordance with the attached specifications, terms and conditions. Prospective respondents are advised to read this information over carefully prior to submitting a proposal.

Two (2) copies of the Proposal must be submitted in a sealed envelope clearly marked:

**RFQ 2019-009 - Reconstructing/Adjusting Drain and Sewer Structures
Town of Salem
Purchasing Office
33 Geremonty Drive
Salem NH 03079**

All proposals/bids must be received by **February 20, 2019 at 1:30 p.m. EST**

INTRODUCTION

The Town of Salem intends to contract a qualified company for reconstructing/adjusting drain and sewer structures at multiple locations primarily on main roads.

The subject contract will run from the date of execution through December 31, 2021 (Approximately 3 years) with a Town option to extend an additional year at bid pricing. Primary Work will involve adjusting sewer and drainage castings to existing or proposed grade at specified locations. Secondary Work will be reconstructing catch basins, drop inlets, and manholes. Most structures are approximately 6 feet deep consisting of 3 foot sumps, 6 inch wall thickness, and 4 foot inside diameter and require frame and grate/cover adjustment of less than 1-foot. Most structures are located in high traffic areas, so quality of construction is of utmost importance.

Construction supervision shall be under the general guidance of the Town of Salem Municipal Services Department. The Deputy Director of Municipal Services shall approve any and all changes, modifications or alterations to the specifications. All materials and Work shall conform to the Town of Salem Specifications (See Appendix A for Town of Salem supplemental specification to NHDOT item 604) and applicable sections of the State of New Hampshire Standard Specifications for Road and Bridge Construction, dated August 2010 including revisions and shall be installed using approved methods. All materials, equipment and labor shall be furnished by the Contractor to complete the job as specified. The Town will reject any work it determines to be below the high standards of the industry. All work performed under this contract shall be guaranteed for a period of one year. The Contractor shall be responsible for promptly repairing/replacing any work which is deemed unacceptable by the Town.

SCOPE OF WORK

In general, Work shall be defined under two separate classifications; Primary Work - Casting Adjustments and Secondary Work - Structure Reconstruction. The Contractor shall supply all material, tools, equipment and labor to complete the Work. Work shall be conducted in a neat and orderly fashion such that no damage occurs to adjacent property, pavement, curbing, landscape, driveways, etc. Reference Contractor Damage Liability in General Contract Requirements.

Primary Work - Casting Adjustments: The intent of a casting adjustment is to set (or reset) a casting to the final grade, all unserviceable brick down to the top of the precast structure shall be replaced, brick work to remain shall be repointed and poly-liners shall be installed on catch basins in paved areas. Reference Detail D1 and D2 in Appendix B. Concrete grade rings for casting adjustment are not allowed. Reference Salem supplemental specification (Appendix A) for appropriate sewer brick for casting adjustments. Castings shall be reset in a full mortar bed to meet the elevation of the finish existing or proposed road surface in a neat and safe manner. Nonstandard, unserviceable, or broken castings shall be replaced. New castings shall be provided and delivered by the Owner.

Secondary Work - Structure Reconstruction: The intent of a structure reconstruction is to rehabilitate and/or rebuild a drainage or sewer structure beyond the scope of a typical casting adjustment due to significant elevation change, significant degradation of the existing structure, correction of inadequate existing casting adjustment and/or replacement of non-standard castings and structure tops. The Contractor shall install the appropriate course(s) of cement blocks, prefabricated concrete riser sections, precast cones (or slab tops) to rebuild each structure, using mortar between each row and each block/brick (see detail D3 in Appendix B). Cement concrete blocks shall be free from cracks or irregularities. Blocks shall be at least 28 days old.

AWARD OF CONTRACT: It is the policy of the Town of Salem, NH that contracts are awarded only to responsible bidders. In order to qualify as responsible, a prospective Contractor must meet the following standards as they relate to this request:

- Have adequate financial resources for performance or have the ability to obtain such resources as required during performance.
- Have the necessary experience, organization, technical and professional qualifications, skills and facilities.
- Be able to comply with the proposed or required time of completion or performance schedule; and
- Have a demonstrated satisfactory record of performance.
- Adhere to the specifications of this bid and provide all documentation required of this bid.
- Provide 3 references particularly municipal and/or utilities that you have done work for.

The contract will be awarded to a responsive & responsible Bidder based on pricing and the qualifications and experience of the bidder, the quality of the equipment/product /materials/services to be provided and the support that the bidder offers during the duration of the

supply terms. No award will be made to any Bidder who cannot satisfy the Owner that he has sufficient ability and experience in this class of work and sufficient capital and plant to enable him to prosecute and complete the Work successfully. The Owner's decision or judgment on these matters shall be final, conclusive, and binding. The Owner may make such investigations as it deems necessary, and the Bidder shall furnish to the Owner, under oath if so required, all such information and data for this purpose as the Owner may request.

Bids shall be priced accordingly:

- **Primary Work:** Lump sum day labor and equipment rate
- **Secondary Work:** Unit pricing for labor and equipment
- **Materials:** Unit Pricing

Primary Work: It is estimated that 20-30 casting adjustments will be completed annually. Allocated crew time should consider two to three (2-3) casting adjustments per day.

Secondary Work: It is estimated that 5-10 structures comprised of rehabilitation/reconstruction will be completed annually. Time consideration should be approximately one (1) structure per day.

PROJECT REQUIREMENTS

EXCAVATION: The pavement around each structure shall be neatly sawcut. Casting adjustments shall have a diamond sawcut pattern. Sawcut for structure remodels shall be such that 12" beyond face of excavation is provided. Excavation shall be done in a neat and orderly manner such that adjacent areas are not damaged or otherwise disturbed (reference paragraph 1 in Scope of Work above). It is preferred that all excavated spoils, debris, and structure pieces are placed directly into a truck for removal and disposal. During construction the Contractor shall immediately remove any brick, block, or concrete that falls into the basin. The Contractor will be responsible to properly dispose of all pavement, damaged bricks, block, old cement and excavation spoils. The Contractor will have the option to stock pile said debris at the Municipal Services facility located at 21 Cross Street until the end of the project. Final payment will be held until the pile of debris is removed from the site.

PREPARATION OF SUBGRADE: All excavated areas shall be shimmed with Crushed Gravel (Item 304.3) to existing line and grade. The existing gravel surface shall be scarified prior to placing new gravels. All stones larger than 3 inches in diameter within the work area shall be removed from the gravel foundation. Compaction shall be performed by mechanical means with walk-behind plate or jumping jack or 'pogo-stick' pneumatic compactors. Gravels shall be compacted to at least 95% compaction.

NOTE: Compaction of gravels may not proceed until brick mortar has cured to a point where the integrity of brick work is not compromised. It is expected that structures will be loosely backfilled until such time that compaction activities may proceed. The contractor may likely need to remove some backfill and compact in 6"-12" lifts to proper density.

The Crushed Gravel unit cost shall include all material in-place, compacted and graded.

HOT BITUMINOUS PAVEMENT PATCH:

It is intended that the Contractor will provide base pavement course(s) and the Owner will provide wearing course pavement for each location. The Contractor may if requested and applicable use an early strength concrete mix for the base pavement course after reviewed by Town officials. Upon acceptance of gravel base preparation, a base pavement patch (Item 403.12 hand method) shall be placed in 1 or 2 courses based on existing pavement thickness. In general, bituminous pavement shall be placed 1.5" below existing line and grade (to allow for wearing course placement by the Town). Minimum pavement thickness shall be 2.5" ($\frac{3}{4}$ " Binder) on local roads or 4" (2" of $\frac{3}{4}$ " Base, 2" of $\frac{3}{4}$ " Binder) on operational roads or as directed by the Municipal Services Department. Bituminous tack coat shall be used between each course of pavement and on all joint faces. All sweeping, cleaning and bituminous tack coat is subsidiary to the pavement item.

PAYMENT: Reconstructing/adjusting drain and sewer structures will be paid for on a labor, equipment, and materials basis at the unit prices included on the Bid Form. Unit prices shall be

inclusive of all materials, labor, equipment, cleanup, disposal, transport and complete compliance with all specifications. Unit prices shall also be inclusive of all other costs including but not limited to mobilization, profit and overhead, insurance and bonding fees, fuel adjustments and other such costs that are not specifically identified in the Bid Form. Assignment of Work is contingent upon the availability of appropriated funds.

GENERAL CONTRACT REQUIREMENTS:

Street Opening Permit: The Contractor shall obtain a street opening permit from the Town of Salem Engineering Division and shall abide by all conditions set forth in the Street Excavation Requirements (see Appendix C) section except as herein modified. Street opening permit fees will be waived.

Contractor Damage Liability: The Contractor shall be wholly liable for any damages caused by his work effort. Any and all repairs shall be complete prior to project acceptance. All cleanup and repair work will be the responsibility of the Contractor, including removal of all excavated or damaged materials.

Police Details: Police details shall be scheduled and paid by the Municipal Services Department. The Contractor shall coordinate and confirm work schedule with the Municipal Services Department. Prior to start of Work the Contractor shall define, as part of the Traffic Maintenance intent, use of police details. Number of details requested, placement of details, and any special instructions as may be necessary shall all be defined in the Traffic Maintenance intent and shall be reviewed by the Municipal Services Department.

When/if work is cancelled, the Contractor shall be responsible for cancelling police details in accordance with the Salem Police Department protocol. Cancellation of police details not in accordance with Salem Police Department protocol will result in the Contractor being charged for that time without reimbursement by the Town.

Traffic Maintenance: Prior to the start of Work, the Contractor shall provide a Traffic Maintenance intent to be reviewed by the Salem Municipal Services Department. The Contractor shall supply all Traffic Maintenance in accordance to NHDOT Item 619. Safety measures including signage, barricades and warning lights shall be incidental to the Work completed. Traffic control and safety measures shall be implemented prior to any construction and maintained in proper working order throughout the project. All street sweeping, cleaning, necessary erosion controls and other such needed measures shall be considered part of, and incidental to, items identified on the Bid Form.

Dig Safe: The Contractor is required to notify "Dig Safe" in accordance with local, State and Federal guidelines. All underground utilities shall be clearly marked and protected prior to any excavation.

BID FORM

PRIMARY WORK: It is estimated that 20-30 casting adjustments will be completed annually. Allocated crew time should consider two to three (2-3) casting adjustments per day.

Lump Sum Labor/Equipment per day: \$ _____

SECONDARY WORK: It is estimated that 5-10 structures comprised of rehabilitation and/or reconstruction will be completed annually. Time consideration should be approximately one (1) structure per day.

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>BID</i>
<u>Labor:</u>		
1.	Foreman	\$ _____/hour
2.	Operator/Driver	\$ _____/hour
3.	Laborer	\$ _____/hour
<u>Equipment:</u>		
4.	Dump Truck	\$ _____/hour
5.	Excavator	\$ _____/hour
6.	Truck & Trailer	\$ _____/hour
<u>MATERIALS:</u>		
7.	Hot Bituminous Pavement	\$ _____/Ton
8.	Cement Block	\$ _____/Each
9.	Clay Sewer Brick	\$ _____/Each
10.	Precast 4' riser section (18"-36")	\$ _____/Each
11.	Precast offset slab top	\$ _____/Each
12.	Precast offset cone (18"-36")	\$ _____/Each

NOTES:

1. All Bid Items are of an indeterminate quantity at indeterminate locations.
2. Work shall be located primarily on main roads throughout town. Locations will be grouped together by road to the greatest degree possible.
3. Poly Liners provided by Town if applicable

The undersigned certifies under penalties of perjury that this proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Date
partnership,
entity.

Name of Entity submitting qualifications, whether individual
corporation, joint venture or other business or legal

Type of Entity

Address

Telephone

By _____
Authorized Signature of Entity submitting qualifications

Submitter's duly authorized position, office or title

GENERAL TERMS AND CONDITIONS

PREPARATIONS OF BIDS/PROPOSALS: Proposals shall be submitted on the forms provided and must be signed by the Bidder or his authorized representative. The person signing the proposal shall initial any corrections to entries made on the attached forms.

Vendors must provide pricing on all items appearing on the bid forms unless specific directions in the advertisement, on the bid form or in the special provisions allowed for partial bids. Failure to provide pricing on all items may disqualify the bid. Alternative bids will be considered, unless otherwise stated, only if the alternate is described completely, including, but not limited to, sample, if requested and specifications sufficient so that a comparison to the request can be made.

Any questions or inquiries must be submitted in writing, and must be received by the Purchasing Department no later than seven (7) calendar days before the Request for Proposal due date to be considered. Any changes to the Request for Proposal will be provided to all bidders of record.

Completed Bid proposals shall contain the following:

- Completed and executed Bid Form
- Narrative of work experience and qualifications.
- Executed Statement of Non-Collusion
- Executed Indemnification Agreement
- Completed Notice to Qualified Firms
- Completed Specifications Exception Form

Prospective Bidders are encouraged to complete the No Bid Questionnaire (See Appendix E) if they choose not to bid.

SUBMITTED BIDS/PROPOSALS: Proposals must be submitted as directed in the Notice to Qualified Firms, and on the forms provided unless otherwise specified. Proposals must be typewritten or printed in ink. Proposals must be mailed or delivered in person. Proposals that are faxed or emailed will not be accepted.

WITHDRAWING BIDS/PROPOSALS: Proposals may be withdrawn prior to the opening date and time upon written request of the Proposer up to three (3) calendar days prior to the bid opening. Negligence on the part of the Proposer in preparing his/her proposal shall not constitute a right to withdraw a proposal subsequent to the proposal opening.

PROPOSAL EVALUATION: The Town reserves the right to reject any and all proposals received in response to the proposal. A proposal may be rejected, if the Bidder:

- Fails to adhere to one or more of the provisions established in the Bid and General Terms and Conditions.
- Fails to submit its proposal at the time or in the format specified herein or to supply the minimum information requested herein.

- Fails to meet the minimum evaluation criteria specified in the Bid and General Terms and Conditions.
- Fails to submit its proposal to the required address on or before the deadline date established by the Town.
- Misrepresents its services, experience and personnel by providing demonstrably false information in its proposal or fails to provide material information.
- Fails to submit its cost on the enclosed bid form.
- Refuses a reasonable request for an interview.
- Refuses to provide clarification requested by the town.

RECEIPT AND OPENING OF PROPOSALS: Proposals shall be submitted prior to the time fixed in the Request for Sealed Bids/RFP. Proposals received after the time so indicated shall be returned unopened.

PROPOSAL RESULTS: All sealed bids received will be considered confidential and not available for public review until after the bid opening is conducted. Results will not be given over the phone. Requests for bid results shall be submitted in writing to the Purchasing Agent after the public opening. Request for Proposals will remain confidential until the proposer has been selected.

KNOWLEDGE AND EXPERIENCE: Only Contractors experienced in the industry will be considered for the work. Contractors shall submit a concise summary demonstrating their qualifications, including a minimum of three municipal and/or utility references familiar with their work. Highlight your company's experience to provide the highest quality and effective product and reliable service and support.

References will be contacted to confirm the quality of previously completed work, suitability of Contractor operations, and responsiveness to the owner's needs.

EXECUTION OF AGREEMENT: The successful Proposer shall sign (execute) the necessary agreements for entering into the contract and return such signed agreements to the town within ten (10) calendar days from the date mailed or otherwise delivered to the successful Proposer.

FAILURE TO EXECUTE AGREEMENT: Failure of the successful Proposer to execute the agreement at the date and time agreed upon by the Town and the successful Proposer shall be just cause for cancellation of the award and forfeiture of all deposits.

CONTRACT TERMINATION: If at any time the Proposer fails to provide proper services during the contract period, the Town of Salem, NH will have the option to terminate the contract at any time without notice.

FAILURE TO SUPPLY GOODS OR SERVICES: If during the contract period the successful vendor fails to supply the Town of Salem, New Hampshire with the equipment/service (s). The

Town of Salem, will purchase this product/service(s) on the open market and the vendor will price incurred on the open market.

RIGHT TO REJECT BIDS: The Town reserves the right to reject any and all sealed bids, should the Town deem it to be in the best interest of the public.

INSURANCE CERTIFICATES: Prior to the award of this contract, the Contractor shall be required to provide a Permit and License Bond in the amount of \$5,000 which shall be in effect for the duration of the contract and warranty period.

Prior to award of this contract, the Contractor shall submit insurance certificates indicating coverage for all vehicles, public liability and property damage in the following amounts:

Comprehensive General Liability	\$ 1,000,000/\$ 3,000,000
Auto Liability: Property Damage	\$ 1,000,000/\$ 1,000,000
Personal Injury	\$ 1,000,000/\$ 3,000,000
Workmen's Compensation	as required by the State of New Hampshire

PRICING: Unless otherwise specified all prices listed are firm for the term of the contract. All prices should include all labor and material costs, and any discounts offered. All services, materials, labor, and equipment required for the Work, will be supplied at the prices provided in the submitted Bid Form and are intended to provide a complete project.

DELIVERY: Pricing so stated on the Bid Form shall be inclusive of delivery and any other shipping charge. No additional compensation shall be granted for delivery or any shipment requirement unless specifically provided for. Deliveries are to be made only to the department or division indicated on the order and in accordance with accepted commercial practices.

OR-EQUAL: The name of manufacturer, trade name, or catalog number mentioned in this request for bid description is for the purpose of designating a minimum standard of quality and type. Such references are not intended to be restrictive, although specified color, type of material and specified measurements may be mandatory.

Proposals will be considered for any brand that meets or exceeds the quality of the specifications listed. On all such proposals, the bidder shall specify the product they are proposing and shall supply sufficient data to enable a comparison to be made with the particular brand or manufacturer specified. Failure to submit the above may be sufficient grounds for rejection of the proposal.

GUARANTEES AND WARRANTIES: All work performed under this contract shall be guaranteed for a period of one year from the date of project acceptance and issuance of final payment. The Contractor shall be responsible for promptly repairing/replacing any area which is compensate the Town of Salem, New Hampshire with the difference between the bid price and the

deemed unacceptable by the Town. The Contractor shall reimburse all damages or losses due to deficient materials or workmanship.

FORCE MAJEURE: Neither party shall be liable for any inability to perform its' obligations under any subsequent agreement due to war, riot, insurrection, civil commotion, fire, flood, earthquake, storm or any other act of God.

NON-COLLUSION STATEMENT

The Undersigned certifies under penalties of perjury that this bid in all respects is bonafide, fair and made without collusion or fraud with any other person. As used in this paragraph, the "PERSON" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

Title _____

Signature _____

Company _____

INDEMNIFICATION AGREEMENT

The successful vendor agrees to indemnify, investigate, protect, defend and save harmless the Town of Salem, NH, it's officials, officers, agents and employees from any and all claims and losses accruing or resulting to any and all contractors, subcontractors, suppliers, laborers and any other person, firm or corporation furnishing or supplying work, services, materials, equipment or supplies in connection with the performance of this contract and from any and all claims and losses accruing or resulting to any person, firm or corporation which may be injured or damaged by the vendor in the performance of this contract. In any case, the forgoing provisions concerning indemnification shall not be construed to indemnify the Town for damage arising out of bodily injury to persons or damage to property caused by or resulting from the sole negligence of the Town or its employees. This indemnification shall survive the expiration or early termination of this contract.

- Company _____
- Taxpayer Identification Number _____
- Authorized Signature _____
- Contact Phone _____
- Address _____
- Date _____

Notice To Qualified Firms

***Do not alter bid documents in any way.**

***All bid documents must be filled out to be considered.**

If you wish to offer comments, additional information or alternate bids, please do below or on a separate sheet and attach it to the bid sheet.

- _____
- _____
- _____
- _____

The purpose of the attached specifications is to define minimum requirements only. They are not meant to be restrictive. All manufacturers meeting or surpassing these minimum specifications are invited to submit a bid/proposal.

For questions or clarification on specifications please contact

Municipal Services Director Roy Sorenson (603)890-2154 or RSorenson@ci.salem.nh.us

The Town of Salem reserves the right to reject any and all sealed bids/proposals that it deems nonconforming to the specifications enclosed. All information must be filled out correctly for consideration.

DO NOT FAX BIDS, THEY WILL NOT BE ACCEPTED.

Specifications Exception Form

In the interest of fairness and sound business practice, it is mandatory that you state any exceptions taken by you to our specifications.

It should not be the responsibility of the Town of Salem to ferret out information concerning the materials, which you intend to furnish.

If your bid/proposal does not meet all our specifications you must state it in the space provided below.

Bids/proposals on equipment, vehicles, computers, supplies, services and materials not meeting specifications may be considered by the Town, however, all deviations must be listed above.

If your bid does not meet our specifications, and your exceptions are not listed above or in space provided, the Town of Salem may claim forfeiture on your bid, if submitted.

Signed _____
I DO meet specifications

Signed _____
I DO NOT meet specifications as listed in this bid, exceptions are in space provided.

Failure to submit this form with your Bid/Proposal response may result in your Bid/Proposal being rejected as unresponsive.

Appendix A

Salem Supplemental Specification

SUPPLEMENTAL SPECIFICATION

AMENDMENT TO SECTION 604 – CATCH BASINS, DROP INLETS, AND MANHOLES

Description

Add the following after the last sentence of section 1.2.

“It is intended that the new manhole frame and grate shall replace an existing frame and grate that is determined to be unusable by the Engineer.”

Materials

Amend 604.2.4 to read as follows:

2.4 All brick used for casting adjustment and invert tables shall be clay brick conforming to AASHTO M32 Grade SS. Maximum water absorption shall be 3%-4% during the five hour boil test. The use of concrete brick will not be permitted.

Amend 604.2.9 to read as follows:

2.9 Prefabricated adjustment rings are not allowed.

Add Section 2.11

2.11 Unless specifically provided for drain manhole frame/cover assembly shall be Neenah Foundry model #R-1743, catch basin frame/grate assembly shall be Neenah Foundry model #R-3570, and catch basin double frame/grate assembly shall be EJ model #0MA552000066. All catch basin frames (single and double) installed at curbing locations shall be 3-flanged. All catch basin frames (single and double) installed with no curbing shall be 4-flanged.

Add Section 2.12

2.12 Submittals shall be required for the following items:

- a. Shop drawing submittals shall be required for each individual catch basin and manhole. The submittal for each structure shall detail the following: the concrete structure including orientation of the cone section, pipe openings in the structure, and the frame and grate or cover orientation in relation to the concrete cone section.
- b. Shop drawing submittals shall be required for all brick used to adjust castings.
- c. Shop drawing submittals shall be required for mortar used in the setting of the castings or the parging of lifting holes.

- d. Shop drawing submittals shall be required for all adhesive and sealant used in the installation of the polyethylene liners.
- e. During the work of setting each new drainage structure or reconstructing existing structures, the Contractor shall log the as-built location (station and offset) of the center of opening at each structure (cone or top slab opening applicable). The Contractor shall submit a complete list of as-built structures, with station and offset of opening at each structure, for review and approval of the Engineer a minimum of one (1) week prior to starting paving operations.

Construction Requirements

Amend 3.3 to Read:

3.3 When reconstruction or adjustment of existing structures is specified, the frames and grates or covers shall be removed and the walls reconstructed as required. Reconstruction of the walls shall mean replacing the top section, if necessary, adding riser sections, replacing riser sections, removing riser sections, or adding/removing rows of barrel block as required to meet the proposed grades. The frames and grates or covers shall be cleaned and reset at the required elevation. Non-serviceable and non-conforming castings shall be replaced as directed.

Amend 3.3.1 to Read:

3.3.1 The use of prefabricated adjustment rings will not be allowed.

Add 3.10

3.10 New frame & grates or frame & cover and frame adjustments shall include new red clay brick (subsidiary). Existing frame shall be cleaned prior to reset. Where elevation adjustment is specified the existing brick shall be inspected for serviceability. Unserviceable adjusting brick shall be replaced.

Add 3.10.1

3.10.1 Each brick for casting setting or adjustment is to be thoroughly wet just before laying and is to be completely embedded in mortar under its bottom, its side and its end at one operation. Care is to be taken to have every joint full of mortar and the outside is to be fully filled and the inside pointed. No brick work is to be laid in water and no water is to be allowed to rise on the work until it has set at least 24 hours. Do not plaster or mortar over brickwork inside the manholes.

Add 604.3.10.2

3.10.2 Frames for manhole covers shall be set flush with finish grade. Frames for catch basins shall be set ½-inch below finish grade. The Contractor shall ensure that the frame is set at the same cross slope and profile of the road. New pavement

courses shall be luted around the rim to provide a smoothly transitioned depression.

Add 3.12:

3.12 Annular space between boot connector and pipe shall be grouted with non-shrink mortar.

Add 3.13:

3.13 Inverts shall be constructed inside drain manholes and sewer manholes using brick specified in paragraph 2.4 above.

Appendix B

Construction Details

FRAME AND GRATE
OR
FRAME AND COVER

FILL AND
TROWEL
VOIDS
NOTE 3

BRICK LAID AROUND
STRUCTURE OPENING

$\frac{1}{4}$ " TYP. $\frac{1}{8}$ "
MIN FACE
JOINT
NOTE 3

24" OR 30"
STRUCTURE
OPENING

MORTAR BED CONNECTION
BETWEEN FRAME AND
BRICK

FRAME AND GRATE

8"

4"

$\frac{1}{4}$ " TO $\frac{1}{2}$ "
JOINT MAX
NOTE 3

NOTES:

1. ALL STANDARD CATCH BASINS SHALL BE OUTFITTED WITH A POLYETHYLENE LINER DOWNSPOUT. EXCEPTIONS MAY APPLY. REFER TO SPECIFIC STRUCTURE TYPE AND CORRESPONDING CONSTRUCTION DETAILS (I.E. DOUBLE GRATE CB, "C-TOP" CB, DROP INLET, ETC.).
2. PLACE MORTAR TO 4" BELOW THE TOP OF GRATE ELEVATION (SUBSIDIARY TO STRUCTURE ITEM).
3. BRICK MORTAR: COMPLETELY FILL AND TROWEL ANNULAR SPACE BETWEEN ALL BRICKS. MORTAR BED BETWEEN BRICK SHALL BE $\frac{1}{4}$ " TO $\frac{1}{2}$ " THICK. FACE JOINTS SHALL AVERAGE $\frac{1}{4}$ " BUT NOT BE LESS THAN $\frac{1}{8}$ ".
4. DO NOT PLASTER OR MORTAR OVER BRICK WORK. ALL JOINTS SHALL BE CLEAN AND PROPERLY POINTED.
5. BRICK SHALL BE AASHTO M91 GRADE SS SEWER BRICK WITH 3%-4% MAX ABSORPTION DURING THE 5-HOUR BOIL TEST. CONCRETE GRADE RINGS SHALL NOT BE ALLOWED.
6. DMH & SEWER FRAME AND COVER SHALL BE NEENAH MODEL #R-1743. DMH SHALL READ "DRAIN". SMH SHALL READ "SEWER". CB FRAME AND GRATE SHALL BE NEENAH MODEL #R-3570. DOUBLE GRATES SHALL BE EJ MODEL #OMA552000066.
7. ALL CATCH BASIN FRAMES (SINGLE AND DOUBLE) INSTALLED AT CURBING LOCATIONS SHALL BE 3-FLANGED. ALL CATCH BASIN FRAMES (SINGLE AND DOUBLE) INSTALLED WITH NO CURBING SHALL BE 4-FLANGED.



Frame Set Detail (SMH, DMH or CB)

NO SCALE

DATE:
03/16

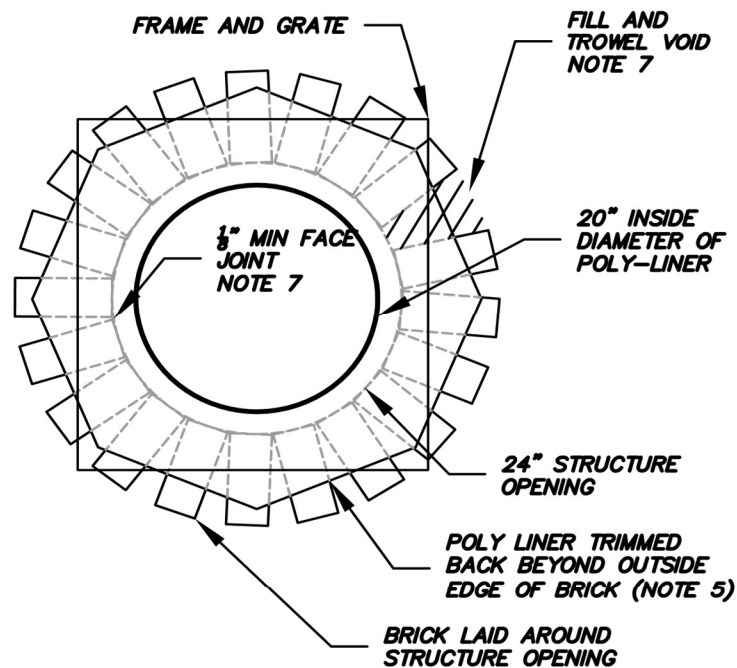
JOB NO.
—

DWG.
D1

SCALE:
N.T.S.

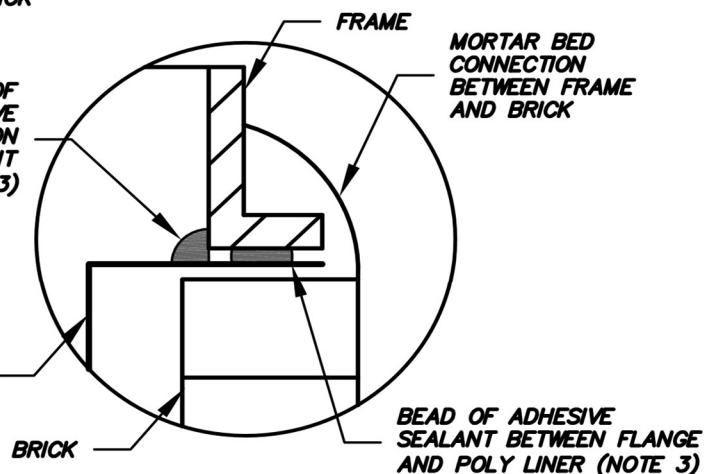
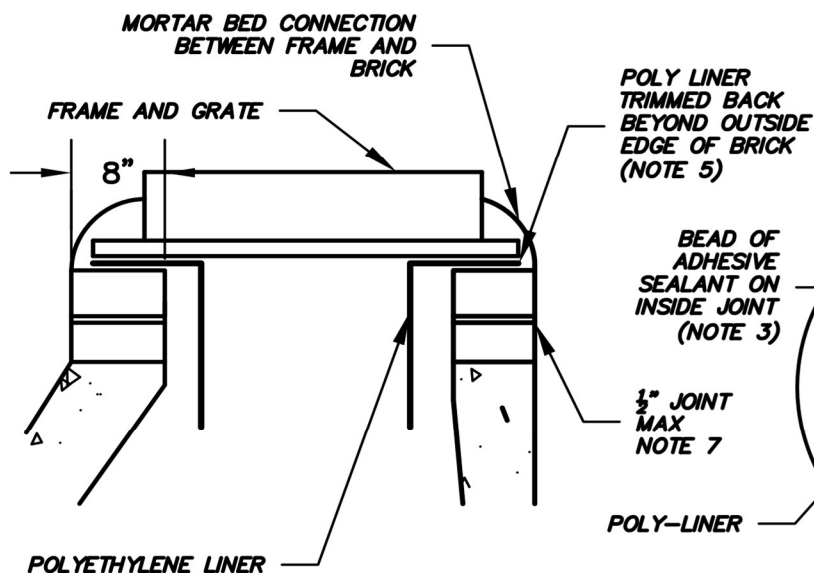
TOWN OF SALEM
ENGINEERING DEPARTMENT
33 GEREMONTY DRIVE
SALEM, NH 03079

FRAME SET
DETAIL



NOTES:

1. ALL CATCH BASINS SHALL BE OUTFITTED WITH A POLYETHYLENE LINER DOWNSPOUT.
2. POLYETHYLENE LINER SHALL BE FABRICATED AT THE SHOP. DOWNSPOUT SHALL BE EXTRUSION FILLET WELDED TO THE POLYETHYLENE SHEET.
3. PLACE A CONTINUOUS BEAD OF AN APPROVED BONDING ADHESIVE SEALANT BETWEEN FRAME AND POLYETHYLENE SHEET AND AT THE INSIDE JOINT AFTER ASSEMBLY IS COMPLETE.
4. PLACE CLASS AA CONCRETE TO 2" BELOW THE TOP OF GRATE ELEVATION (SUBSIDIARY TO DRAINAGE STRUCTURE).
5. TRIM POLYETHYLENE BEYOND THE OUTSIDE EDGE OF BRICK TO PROVIDE A MORTAR CONNECTION BETWEEN THE FRAME AND BRICK. ALTERNATE TRIMMING METHODS MAY/SHALL BE REQUIRED BY THE OWNER WHEN USED WITH CURBING AND GUTTER INLETS.
6. THE CENTER OF THE GRATE & FRAME MAY BE SHIFTED A MAXIMUM OF 1" FROM THE CENTER OF THE DOWNSPOUT IN ANY DIRECTION.
7. BRICK MORTAR: COMPLETELY FILL AND TROWEL ANNULAR SPACE BETWEEN ALL BRICKS. MORTAR BED BETWEEN BRICK SHALL BE $\frac{1}{4}$ " TO $\frac{1}{2}$ " THICK. FACE JOINTS SHALL NOT BE LESS THAN $\frac{1}{8}$ ".
8. BRICK SHALL BE AASHTO M91 GRADE SS SEWER BRICK WITH 3%-4% MAX ABSORPTION DURING THE 5-HOUR BOIL TEST.



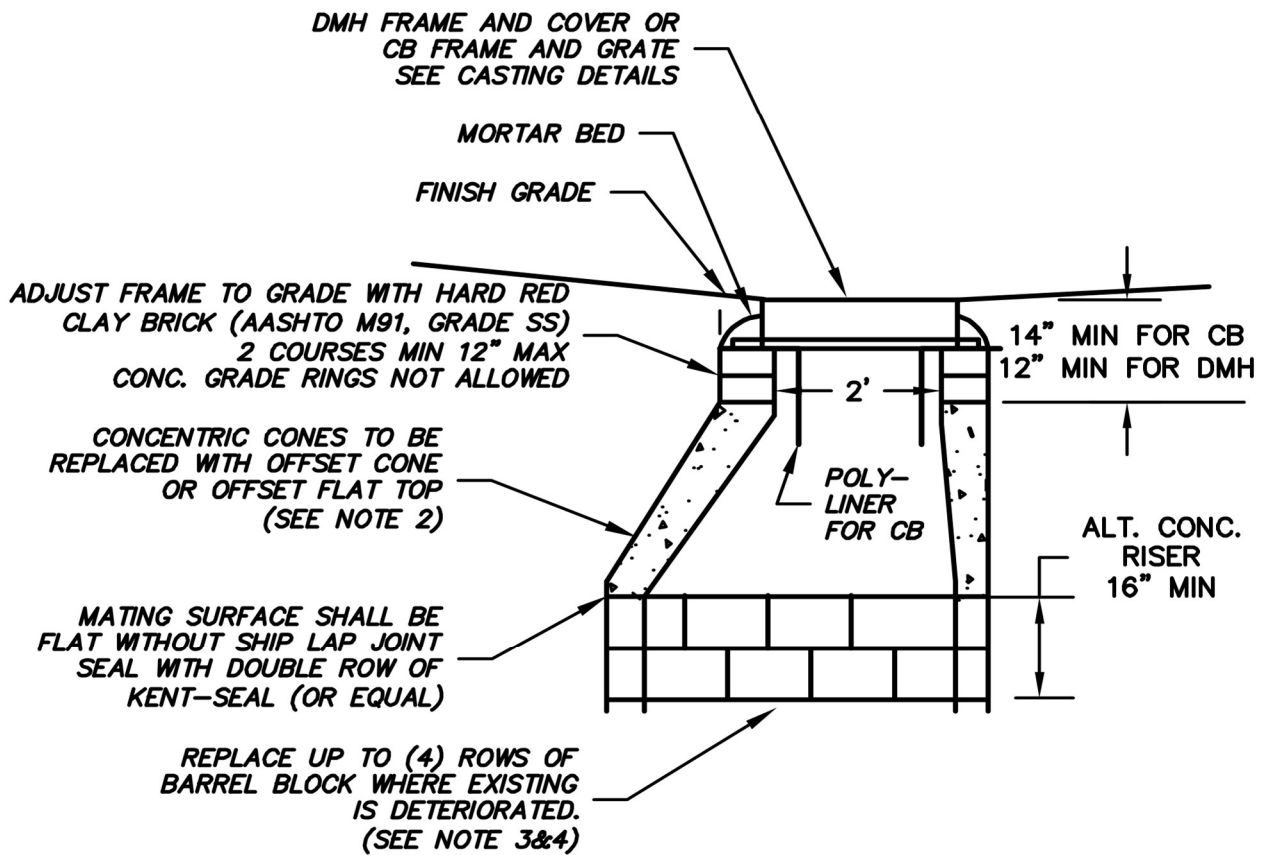
 Poly-Liner Detail

NO SCALE

DATE:	JOB NO.
03/16	—
DWG.	SCALE:
D2	N.T.S.

TOWN OF SALEM
ENGINEERING DEPARTMENT
33 GEREMONTY DRIVE
SALEM, NH 03079

POLY-LINER
DETAIL



NOTES:

1. REFERENCE GENERAL DRAIN STRUCTURE NOTES, NHDOT SECTION 604, AND TOWN OF SALEM SUPPLEMENTAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. REPLACEMENT OF STRUCTURE TOP WITH A CONE OR A SLAB TOP SHALL BE GOVERNED BY THE FINAL ELEVATION OF THE FINISH GRADE AND REQUIREMENTS OF THE CASTING ADJUSTMENTS.
3. ITEM SHALL INCLUDE UP TO (4) ROWS OF BARREL BLOCK. ALL JOINTS SHALL BE MORTARED.
4. ALTERNATE CONCRETE RISER SECTION MAY BE USED IN-LIEU OF BARREL BLOCK. MIN. RISER HEIGHT SHALL BE 16-INCHES.



Drain Structure Remodel

NO SCALE

DATE: 10/16	JOB NO. —
DWG. D3	SCALE: N.T.S.

TOWN OF SALEM
ENGINEERING DEPARTMENT
33 GEREMONTY DRIVE
SALEM, NH 03079

DRAINAGE DETAILS

Appendix C

Street Excavation Requirements

APPENDIX C - STREET EXCAVATION REQUIREMENTS

Street Opening Permit QA/QC

APPLICATION REQUIREMENTS

- Completed Application
- Required Bonding and Insurance on file with Town
- Proposed Traffic Control Plan
- Work Zone Photos with pre-marks
- Valid Dig Safe Number

MORATORIUM PERIODS FOR STREET OPENING

- Newly reconstructed roads, the moratorium period shall be five (5) years from such reconstruction.
- Newly milled and overlaid roads, the moratorium period shall be two (2) winters from such mill and overlay.

STANDARD PERMIT REQUIREMENTS/CONDITIONS

Once approved, the permit is valid for the time specified in the permit and must be renewed prior to the expiration date. The work shall proceed in a continuous manner with diligence and expedition, so as not to obstruct the public places or travel thereon more than is reasonably necessary.

A minimum of three (3) business days prior to the actual start of the work the following must occur:

- Notification to the Engineering Department of the actual start date and scheduling of inspections (shall include Water Department when water work is to be performed)
- Scheduling of Police Details with the Police Department
- Additional bonding in place if required

Upon completion of work and satisfactory restoration, as determined by the Engineering Department a warranty period shall start, the minimum period is one year and the maximum is three years and shall be determined by the Engineering Department, upon issuance of permit.

TRAFFIC CONTROL REQUIREMENTS

A Traffic Control Plan is required as part of the application for a Street Opening Permit. An approved Traffic Control plan will be required prior to the issuance of a Street Opening Permit. Applicants are encouraged to plan accordingly as the Engineering Department and

APPENDIX C - STREET EXCAVATION REQUIREMENTS

the Police Department will require approximately three working days to review and comment on proposed Traffic Control Plans.

All work and traffic control shall be performed in accordance with the following provisions:

- “Manual On Uniform Traffic Control Devices” (MUTCD), U.S. Department of Transportation, Federal Highway Administration, current edition;
- “Standard Specifications for Road and Bridge Construction”, State of New Hampshire Department of Transportation, 1997 or latest revision, sections 615, 618 and 619;
- and as directed by the Town of Salem Police Department and /or Engineering Department.

Maintenance of traffic shall be achieved in accordance with a traffic control plan as approved by the Town, and shall involve the use of uniformed police officers and as directed by the Town of Salem Police Department, and the furnishing, erecting and maintaining of temporary construction signs, barricades, channeling devices, lights or other warning devices as needed to provide safe travel for the public.

The Salem Police Department, Engineering Department or their duly appointed agent, may require the Permittee to delay, suspend, or discontinue work until such time as acceptable traffic control is provided. **In the event that work is suspended or cancelled as the result of inadequate traffic control the contractor shall be responsible for payment of the minimum detail charge.**

A minimum one lane of traffic shall be maintained on all roads at all times. The minimum width for temporary traffic lanes shall be eleven (11) feet. **Access for emergency vehicles shall be maintained at all times.** Suitable access shall be provided to all properties and to all places of business at all times. Two-way traffic shall be restored/maintained when work is not in progress, at night, on weekends and on holidays (unless authorized by the Town).

When deemed necessary by the Town to facilitate construction, complete road closures will be considered only with the approval of the Town of Salem Engineering Department, Police Department, Fire Department, DPW and School District. Whenever a complete road closure is permitted every effort shall be made to provide access for local residents and businesses. Detour routes shall be planned and appropriately signed to the satisfaction of the Town.

When the work area encroaches upon sidewalks or crosswalks, protective barriers and signs, together with appropriate warning and guidance devices, shall be utilized so that the passageway for pedestrians is safe and well defined.

STANDARD CONSTRUCTION REQUIREMENTS

Pavement Cutting

APPENDIX C - STREET EXCAVATION REQUIREMENTS

All bituminous concrete or concrete pavements shall be cut before any excavation is started. The pavement shall be neatly and uniformly saw cut at each side of all trenches to ensure against unnecessary damage to pavement. An acceptable alternative to saw cutting is cold planning.

Excavation

Excavation shall be performed in a manner as to produce the minimum possible width of disturbance. Excavation and handling of materials shall be performed in a manner as to minimize the possibility of cave ins. Sheeting and shoring shall be used in accordance with OSHA requirements to prevent such undermining. Pavement projecting over undermined areas, shall be saw cut square and removed. No opening or excavation in any street shall extend beyond the center line of the street before the excavated side of the street is made passable to traffic. Where a trench crosses a street, steel plates capable of bridging the trench and supporting traffic may be used.

Backfill

Backfill material may consist of material excavated during the course of construction if dry, but excluding pieces of pavement, frozen material, organic matter, top soil, muck, peat, clay, rocks larger than six inches, or any other deleterious material that is deemed unacceptable by the Engineering Department. If considered unsuitable for backfill, excavated material shall be replaced with granular backfill as specified in the "Standard Specifications for Road and Bridge Construction", State of New Hampshire, Department of Public Works. (Sand-NHDOT 209.3 Gravel-NHDOT 209.4)

Excavated material shall be replaced or backfilled in layers or courses not to exceed twelve (12") inches in compacted thickness; and shall be compacted at or near optimum moisture content using pneumatic tampers, vibratory compactors or other approved means. Select materials immediately under the pavement (gravels and processed gravels or reclaimed asphalt) shall be replaced in kind or to a minimum depth of twelve (12) inches of gravel and four (4) inches of crushed gravel meeting NHDOT Standard Specifications for Road and Bridge Construction. (Gravel NHDOT 304.2, Crushed Gravel 304.3)

Compaction

All excavated materials shall be compacted to a minimum of 95% of the optimum density. (ASTM 1557 Method D) A compaction test performed by a certified material testing laboratory may be required. If required the compaction test must be performed prior to paving and the results submitted to the Engineering Department. If a trench exceeds 100 feet in length, compaction tests shall be required every 100 feet prior to paving.

Work Zone Maintenance

APPENDIX C - STREET EXCAVATION REQUIREMENTS

The roadway shall be periodically swept to keep materials from the travelled way. The roadway shall be cleaned of all foreign materials at the end of each working day.

Bituminous Trench Patch

A temporary patch shall be placed using one of the following methods.

- Temporary patch method one - Bituminous Concrete binder course will be brought to the surface grade at a minimum depth of two and a half (2 ½) inches. This temporary patch will be maintained as necessary by the contractor and allowed to remain in place for a minimum of 30 days but not more than 60 days. (The Stabilization Period) At the end of the stabilization period the temporary patch will be cut out and the trench trimmed with neat straight cuts and square corners a minimum distance of twelve (12) inches onto undisturbed material beyond the limits of the temporary patch area or of the observed settlement area, whichever is greater. The contractor will add or remove crushed gravel and compact, if necessary.
- Temporary patch method two - the gravels shall be brought to the appropriate grade and Bituminous Concrete binder course brought to the surface grade. This temporary patch will be maintained as necessary by the contractor and allowed to remain in place for a minimum of 30 days but not more than 60 days. (The Stabilization Period) At the end of the stabilization period the temporary patch will be milled to the depth of one and one (1 ½) half inches a minimum distance of twelve (12) inches onto undisturbed material beyond the limits of the temporary patch area or of the observed settlement area, whichever is greater.

Permanent Patch shall be installed as follows.

Temporary patch and existing pavement shall be removed in a manner that results in no damage to adjacent pavement and shall be replaced with an equal depth but not less than four (4) inches (2.5" binder course Type B and 1.5" wearing course Type F) of hot bituminous pavement conforming to the Standard Specifications for Road and Bridge Construction, State of New Hampshire, Section 401.

Limits of saw cuts or milling for final patching shall be approved by the Town of Salem Engineering Department prior to execution of final paving. The Town may require the limits of the area to increase due to any damage in the work area.

In the case of a transverse or diagonal trenching, the pavement shall be cut to provide a diamond shaped patch with at least two (2) foot minimum overlap of the final patch onto

APPENDIX C - STREET EXCAVATION REQUIREMENTS

undisturbed material that will permit only one wheel of a vehicle at a time to strike the patch area.

An approved asphalt emulsion (tack coat) shall be applied to the face of all exposed joints of the existing pavement. Rolling shall be done with a self-propelled roller weighing not less than eight (8) tons to achieve ninety five percent compaction and shall continue until a firm, even surface true to the lines and grade is obtained.

In cases where multiple excavations are made in a street which would result in multiple patches, the Engineering Department at their discretion may require a continuous patch or overlay across the entire work zone.

Appendix D

W-9 Request for Taxpayer Identification Number and Certification

**Request for Taxpayer
Identification Number and Certification**

Give Form to the
requester. Do not
send to the IRS.

Print or type See Specific instructions on page 2.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.	
	2 Business name/disregarded entity name, if different from above	
	3 Check appropriate box for federal tax classification; check only one of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C-C corporation, S-S corporation, P-partnership) ▶ Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. <input type="checkbox"/> Other (see instructions) ▶	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ (Applies to accounts maintained outside the U.S.)
	5 Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
	6 City, state, and ZIP code	Town of Salem, NH 33 Geremonty Drive Salem, NH 03079
	7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I Instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number								
			-				-	
Or								
Employer identification number								
			-					

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ▶	Date ▶

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.
Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/w9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding?* on page 2.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued).
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

Appendix E

No Bid Questionnaire



Town of Salem, New Hampshire

Purchasing Department

Municipal Offices, 33 Geremonty Drive, Salem, New Hampshire 03079

tel: (603) 890-2090 fax: (603) 898-1223

Nicole McGee, Finance Director

Christine Wholley, Purchasing Agent

No Bid Questionnaire

Reference: Sealed RFQ-2019-009

If you choose not to bid, please complete the questionnaire below and return it with your response by the bid opening date. Your assistance in helping us to analyze no bid rationale is very much appreciated.

Thank You.

* * * * No Bid Questionnaire * * * *

A no bid is submitted in reply to the Town of Salem, NH invitation for bids for (enter requirement description): _____ Dated _____

_____, for the following reasons:

_____ Item not supplied by our company.

_____ Bid Specification (Give reason(s) e.g., too restricted, not clear etc.)

_____ Profit Margin too low

_____ Past experience with the Town of Salem (give specific's e.g. payment delay, bid process, admin problems, etc. _____

_____ Insufficient time allowed to prepare and respond to bid request.

_____ Bid requirements too large _____ or too small _____ for our company.

_____ Priority of other business opportunities limits time.

_____ Other reason(s) Please Specify: _____

Company Name _____

Address _____

Phone _____

_____ (Signature)

(Name & Title)