

SALEM MUNICIPAL SERVICES

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2018 ROADWAY STABILIZATION PROJECT

SALEM, NH

ADDENDUM No. 1

January 11, 2018

This Addendum forms part of the Bidding and Contract Documents and modifies the Drawings and Contract and Specifications for the 2018 Roadway Stabilization Project. The items set forth herein, whether of omission, addition, substitution or clarification, are all to be included in and shall form part of the proposed work and Bids submitted to the Town of Salem, New Hampshire. Inclusion of this Addendum shall be acknowledged by inserting its number in the space provided in the Bid Proposal form (Section 00301A). Failure to acknowledge any and all addenda in the above specified Bid Proposal form may be cause for rejection of the bid by the Owner on the grounds that it is not responsive.

ADDEDNDUM No. 1

Bidders are advised the following clarifications and changes are generated by questions at the pre-bid meeting on January 10, 2018 and are hereby incorporated into the CONTRACT DOCUMENTS AND SPECIFICATIONS:

1. **Insert** the attached Section 00301A (Bid) in the CONTRACT DOCUMENTS AND SPECIFICATIONS and **Discard** the original version of Section 00301A.

The revised document adds quantities not shown in the original document.

2. **Insert** the attached Section 01010 – Scope and Prosecution of Work in the CONTRACT DOCUEMENTS AND SEPCIFICATIONS and **Discard** the original version of Section 01010.

The revised documents corrects road length descriptions.

3. **Casting Alternates:** Is there an acceptable alternate to the NEENAH catch basin casting?

The Town allows EJ Foundry castings in place of the Specified Neenah castings.

4. **Main Street Work:** Will Main Street paving be night work?

The possibility of night work has not yet been determined. Given adjacent residences, night work may not be allowed. The winning contractor is invited to discuss alternatives with the Town and its Consultant prior to completing the Main Street work.

5. **Bid Alternate 1:** What is involved with the culvert/slab repair on Point A Rd?

The intent of the work is to correct a sinkhole issue. The top of the existing stone box culvert will be excavated and an 8" fiber reinforced slab will be poured full width of the road and extending 5-feet beyond the edge of the existing box in both directions. Work is described on Sketch Plan 1 in the Appendix.

6. **Johnson Ave Drainage Work:** What is involved with the drainage work on Johnson Ave?

The intent is to correct a drainage deficiency. One half of the road will be excavated and reshaped to provide a normal crown through the curve. A new catch basin and supplemental pipe will be installed. Work is described on Sketch Plan 2 in the Appendix

****END OF ADDENDA NO. 1****

Bid Schedule
Base Bid
2018 Roadway Stabilization Project
Salem, New Hampshire

Base Bid

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	
203.1	Common Excavation	300	CY			
203.6	Embankment in place (Millings used as gravel shim)	40	CY			
206.19	Structure Excavation, Exploratory	10	CY			
214	Road Base Preparation, Compaction, & Fine Grade	250	SY			
304.3	Crushed Gravel	50	CY			
403.11	Hot Bituminous Paving, Machine Method	6207	TONS			
403.111	Small Qty Machine Patch Areas	400	TONS			
403.12	HBP Hand Method (driveways and structure patch)	398	TONS			
411.3	Plant Mix Surface Treatment, Paver Shim	99	TONS			
417	Cold Planing Bituminous Surfaces	71659	SY			
603.83212	12" HDPE Drain Pipe	22	LF			
604.0007	Polyethylene Liner (for catch basins)	117	EA			
604.12	Catch Basin	1	EA			
604.34	Drain Structure, Change In Type	1	EA			

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	
604.4	Remodel Existing Drainage Structures	22	EA			
604.41	Maintain & Adjust Catchbasin Frame & Grate	47	EA			
604.51	Maintain & Adjust Sewer Manhole Frame & Cover	23	EA			
604.52	Maintain & Adjust Drain Manhole Frame & Cover	4	EA			
604.61	New Sewer Manhole Frame and Cover	5	EA			
604.62	New Drain Manhole Frame and Cover	2	EA			
604.72	New Type B Frame & Grate	76	EA			
608.131	3" Bituminous Sidewalks	300	SY			
609.01	Straight Granite Curb	100	LF			
609.5	Reset Granite Curb	200	LF			
611.90001	Adjust water Gates & Shutoffs	42	EA			
611.90002	New Valve Box	5	EA			
611.92	Remove and Reset Valve box assembly	2	EA			
618	Uniformed Police for Traffic Control	ALLOWANCE		Sixty Thousand Dollars and no cents	\$ 60,000.00	\$ 60,000.00
619.1	Maintenance of Traffic	1	LUMP			
619.25	Portable Changing Message Board	2	MONTH			
628.2	Sawed Bituminous Pavement	2100	LF			

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
632.0104	Retroreflective Paint Pavement Marking (4")	30596	LF			
632.3108	Retroreflective Thermoplastic Pavment (8" crosswalk)	400	LF			
632.3112	Retroreflective Thermoplastic Pavment (12" Stop)	315	LF			
633.3118	Retroreflective Thermoplastic Pavment (18" Stop)	455	LF			
632.32	Retroreflective Thermoplastic Pavment Marking, Symbol, or Word	400	SF			
692	Mobilization	1	LUMP			
1010.2	Asphalt Cement Adjustment	ALLOWANCE		Fifteen Thousand Dollars	\$ 15,000.00	\$ 15,000.00
TOTAL AMOUNT (BASE BID)						

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
BID ALTERNATE 1 - POINT A ROAD CULVERT IMPROVMENTS						
206.1	Common Structure Excavation	25	CY			
214	Road Base Preparation, Compaction, & Fine Grade	1	LUMP			
304.3	Crushed Gravel	20	CY			
403.111	Small Qty Machine Patch Areas	10	TONS			
520.01	Concrete, Class AA	8	CY			
544.7	Fiber Reinforcement	56	LB			
603.24008	8" PVC sleeve for guardrail	1	LUMP			
606.12	Guard Rail Standard (w/ hardware and posts)	40	LF			
606.1A7	Beam Guard Rail (Terminal Unit G-2)	4	UNIT			
645.531	Silt Fence	100	LF			
646.512	Turf Establishment w/ Mulch, Tackifiers, & Loam	200	SY			
TOTAL AMOUNT (BID ALT 1)						

SECTION 01010

SCOPE AND PROSECUTION OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this section.

1.2 LOCATION OF WORK

- A. The work of this Contract is located in the Town of Salem, New Hampshire. Construction locations will generally include, but not necessarily be limited to:

1. **Main Street** – Millville Street to Bridge Street, 7,649 feet.
2. **Kim Road** – Entire length, 1,434 feet.
3. **Stone Post Road** – Entire length, 1,458 feet
4. **Jana Road** – Entire length, 1,231 feet.
5. **Green Avenue** – Entire length, 229 feet
6. **General Pulaski Drive** – Entire length, 1,935 feet.
7. **Kyle Drive** – Entire length, 1,096 feet.
8. **Glen Denin Drive** – Entire length, 1,321 feet.
9. **Johnson Avenue** – Entire length, 1,184 feet.
10. **Blue Fox Road** – Entire length, 793 feet.
11. **Deerfield Street** – Autumn Woods Rd to Green Haven Rd, 2,105 feet. (Work to begin 330 feet from the Autumn Woods Rd intersection at the limit of work previously completed.)
12. **Point A Road** – Entire Length, 426 feet.
13. **Fairmont Road** – Entire Length, 440 feet.
14. **Maylane Drive** – Entire length, 1,050 feet.
15. **Jewell Drive** – Entire length, 470 feet
16. **Supplemental Work**

- **Point A Road Culvert Improvements (Bid Alternate 1)**– This project provides for a bid alternate which includes excavation of the top of an existing stone box culvert and placement of a fiber

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reinforced concrete slab. The Alternate will also include replacement of the existing guard rail adjacent to the box culvert.

- **Johnson Ave Grading and Drainage Improvement** – excavate one half of the road at address #2 Johnson Avenue. Shape to provide normal 3% crown. Install drainage catch basin and pipe.
- **Misc Patch, Mill and Overlay locations** – The Owner will provide additional locations within the town that require small quantity patching and/or mill and overlay. The locations will be defined on an as-needed basis during the Contract times.

B. Additional Work: The Owner may, at its sole discretion, choose to add additional work or street locations to the Contract. The Owner will pay for the additional work using unit prices as bid, and as provided in the General Conditions and Supplementary Conditions.

1.3 SUMMARY

- A. In general and without limitation, the work to be done under this Contract includes roadway milling, shimming, and overlay work and appurtenant construction within the streets and rights-of-way of the areas indicated in the Contract Documents. The work to be performed shall include the work as specified in the Contract Documents, and as indicated below.
- B. A general description of the work to be performed under this Contract shall include but will not necessarily be limited to the following construction operations:
1. Milling roadways to a depth of 1.5" at specific locations. **The Contractor is advised that no street shall be left milled for longer than seven days. All milled material not used within the project shall become the property of the Contractor**
 2. Shimming areas of deficient cross sectional shape and severe rutting.
 3. Complete pavement removal through milling activities in heavily fractured and/or failed sections of pavement as identified by the Engineer.
 4. Saw cutting, removing, and patching areas of pavement determined to be severely deficient or areas of pavement where it is necessary to adjust select gravels in an effort to encourage positive drainage flow. Necessary gravel shimming shall be accomplished through the use of the millings from the milling operation.
 5. Removal and reset of various types of curbing where conditions above are encountered.

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6. Adjusting all castings within the work zone. Substandard or broken castings shall be replaced.
 7. Rebuilding/remodeling of structures as may be required by the Contract.
 8. Providing all traffic control and maintenance of detours.
 9. Furnishing, placing and compacting hot bituminous pavement, tack coat, and pavement markings for roadway reconstruction, and driveway aprons.
 10. Disposal of excess excavated material not required for fill or backfill. Materials deemed as not being needed for fill or backfill shall be offered to the Owner prior to disposal. If the Owner wishes to keep any or all material, the Contractor shall transport the material to the Town of Salem Transfer Station at 129 Shannon Road at no cost to the Owner. Materials not claimed by the Owner shall become the property of the Contractor. Disposal shall be at the expense of the Contractor to the satisfaction of the Owner and in accordance with all local, state and federal regulations.
 11. Removal and salvage and/or disposal of existing drainage materials to be replaced. Materials to be salvaged and their location for storage shall be determined by the Owner. Materials not desired for salvage by Owner shall be disposed of by the Contractor, at no additional cost to Owner, in accordance with all local, state and federal regulations.
 12. Replacement and restoration of disturbed pavement surfaces, utilities, plantings, mulch, landscaping stone, grass, loam/seed, posts, fences, signs, mailboxes, bounds etc. within the limits of work, and in areas outside the limits of work disturbed by construction operations. Replace any disturbed bounds utilizing the services of a Registered Land Surveyor licensed in the State of New Hampshire to perform such work.
 13. Completion of all clean up.
- C. The work shall also conform to such additional drawings and addenda to these Specifications and Drawings as may be published or exhibited prior to the opening of the bids and to such drawings in explanation of details, or as may be furnished by the Engineer from time to time during the construction.
- D. Work and materials which are necessary in the construction but which are not specifically referred to in the Specification, or shown on the Drawings, but implied by the Contract shall be furnished by the Contractor at his own cost and expense and shall be such as will correspond with the general character of the work as may be determined by the Engineer, whose decisions as to the necessity for and character of such work and materials

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shall be final and conclusive. It is the intent of these Specifications and Drawings to produce a complete, finished job whether shown in every detail or not.

1.4 SCHEDULE OF BASE BID SECTIONS AND ALTERNATES

A. This project includes one (1) base bid section with one (1) alternate.

1.5 WORK BY OTHERS

A. The Contractor's attention is drawn to the fact that there may be work being conducted at the site by Fairpoint, Liberty Utilities, Comcast, Unitil or other utilities. This work generally consists of moving above ground utilities from old poles to newly relocated poles and relocating underground utilities. This work may limit the Contractor's ability to complete certain aspects of the work. However, the Owner will not be responsible for delay claims resulting from the work required of Fairpoint, Liberty Utilities, Comcast, Unitil or other utilities.

B. The Contractor is advised that Work will be ongoing at other locations in Salem in 2017. Work efforts are as follows:

a. Main Street Drainage Repair – Highland Ave to Lawrence Road.
Note work to occur in advance of Main Street portion of this project.

b. Zion Hill Road Reconstruction, (Note: this project is subject to Town appropriation of funds in March 2018).

c. Neighborhood Roadway Reconstruction – Captains Drive, Captains Road, Bonnano Road, Coburn Street, Pacheco Drive, Witch Hazel Road, Harris Road, Doiron Road (Note: this project is subject to Town appropriation of funds in March 2018)

d. Roadway Improvement Project – Garabedian Drive (Note: this project is subject to Town appropriation of funds in March 2018).

e. 2018 Route 28 Water, Sewer and Bridge Improvements (Note: this project is subject to Town appropriation of funds in March 2018)

f. Ongoing Tuscan Village Development.

g. Ongoing NHDOT Reconstruction of I-93 corridor.

The above may limit the Contractor's ability to complete certain aspects of the Work. However; the Owner will not be responsible for delay claims resulting from the work described above.

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1.6 WORK SEQUENCE

- A. The proposed work sequence shall be in accordance with the approved schedule submitted by the Contractor.
 - 1. The Project Schedule shall be updated every two (2) weeks and submitted to the Owner and Engineer for review.
 - 2. The Project shall be substantially complete by the date stipulated in the Invitation to Bid.
- B. Supplemental drainage work completion requirements: The Contractor shall have the work area to binder grade within 5 days.
- C. Contractor shall complete all work (Final Completion) and have the Project ready for Final Payment by the date stipulated in the Invitation to Bid.
- D. Refer to General Notes in the Contract Drawings for additional requirements additional requirements.

1.7 CONTRACTOR'S USE OF PREMISES

- A. Contractor shall assume full responsibility for security of all his and his subcontractors' materials and equipment stored on the site.
- B. Contractor shall limit use of premises to areas within the Contract work area. Do not cause disruption to portions of the Project beyond areas in which the Work shall be conducted.
- C. If directed by the Owner, Contractor shall move stored items which interfere with operations of Owner for no additional compensation.
- D. If necessary, Contractor shall obtain and pay for use of additional storage or work areas if needed to perform the Work.

1.8 UNDERGROUND UTILITIES

- A. Underground utilities shown on the any of the Contract Documents or Drawings, have been located primarily from information furnished by others and are considered approximate both as to size and location. There may be additional utilities to be encountered that are not shown on the Drawings, and it shall be the Contractor's responsibility to locate all existing utilities and to protect same from damage or harm.
 - 1. Contractor shall notify Dig Safe prior to any excavation within the Project.

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- B. All utilities interfered with or damaged shall be properly restored, at the expense of the Contractor, to the satisfaction of the Owner and the utility authority.

1.9 WORK SCHEDULE

- A. The major items of work as listed in Section 00800 – Supplementary Conditions of the Contract shall be completed for Substantial Completion.
- B. Normal construction activity shall be limited to normal business hours of 7:00 AM to 3:30 PM, Monday through Friday (except holidays) unless otherwise approved by the Engineer or the Town of Salem in writing.
- C. If the Contractor requires assistance from the Department of Public Works (DPW) after normal business hours (3:30 PM), the Contractor will be charged for DPW time, including manpower and vehicles. Payments of all fees accrued for this reason are the sole responsibility of the Contractor with no additional expense to the Owner.
- D. Work in streets, roadways and areas adjacent to them is not allowed on legal holidays and shall cease at noon on the day before legal holidays and at noon on Friday prior to Monday holidays. The holidays are as follows:

New Year's Day	Civil Rights Day
President's Day	Memorial Day
Independence Day	Labor Day
Columbus Day	Veterans Day
Thanksgiving Day	Day after Thanksgiving
Christmas Day	

1.10 RECORD KEEPING

- A. Submit the following in accordance with Section 01300.
 - 1. The Contractor shall submit copies of field records and record drawings each month with project invoices. Field data shall be updated each month as applicable.
 - 2. The Contractor shall submit Daily Field Reports to the Owner on a weekly basis.
- B. Record Drawings and/or Drawing Sketches.
 - 1. Record Drawings shall be required when Contract Drawings are provided for the project and where profile changes, utility modifications, and/or drainage modifications are provided for or when directed by the Engineer for specific contract items.

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2. Drawing Sketches shall be required when no Contract Drawings are provided and where profile changes, utility modifications, and/or drainage modifications are provided for or when directed by the Engineer for specific Contract items.
 3. Where Record Drawings or Drawing Sketches are required As-Built information shall include elevations, locations, lengths, slopes, materials, sizes, swing ties and dimensioning, ledge and utility conflicts and locations, unsuitable material deposits, and other information or documents suitable for record keeping such that an accurate representation of work completed and conditions encountered is depicted.
- 1.11 The following items of work are considered subsidiary to other items of work and no additional compensation will be allowed. This list is not considered to be complete and other items may be identified in these contract documents. The partial list is as follows:
1. Sweeping existing pavement prior to tack coat and overlays.
 2. Cleaning new catch basins and drain pipes.
 3. Materials testing.
 4. Bituminous tack coat.
 5. All hauling costs associated with transport of salvaged materials/items to the Owner in a designated location.
 6. Thrust blocks/joint restraints for water or sewer work.
 7. Resetting individual stones.
 8. Coordination with Town departments.
 9. Coordination with utility companies.
 10. Dewatering of any kind.
 11. Temporary earth support and shoring.
 12. Meeting the requirements of all project permits.
 13. General site cleanup.
 14. Field survey including layout.
 15. Record drawings.
 16. Water and Sewer swing tie sketches.
 17. As-Built Survey and Record drawings.
 18. Project Submittals.
 19. All property restoration (whether public or private) for which no specific pay item exists. The Contractor shall anticipate property impacts resulting from their own operations and consider impacts in preparation of their bid. All disturbed areas shall be restored to a pre-construction or better condition.
 20. All incidental work shown or indicated on the Drawings for which no Pay Item exists.

PART 2 - PRODUCTS

2.1 UNSUITABLE MATERIALS

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- A. Unsuitable Material shall consist of deposits of saturated or unsaturated mixtures of soils and organic matter not suitable for foundation material regardless of moisture content.
- B. Unsuitable material shall also consist of any material containing excessive plastic clay, vegetation, debris, pavement, stones or boulders over six inches (6") in greatest dimension, which, in the opinion of the Engineer, will not provide a suitable foundation or sub grade.

2.2 UNFAVORABLE OR ADVERSE CONSTRUCTION CONDITIONS

- A. During unfavorable weather (wet ground, extreme temperatures, etc) or other unsuitable construction conditions, confine operations to work that will not be affected adversely by such conditions. The mixing and placing of concrete or pavement courses, the laying of masonry and the installation of drain systems shall be stopped during rain storms of any intensity. All freshly placed work shall be protected by canvas or other suitable covering. Placement of select materials under roadways or driveways may be allowed in light rain with the approval of the Engineer.

No portion of Work shall be constructed under conditions that adversely affect quality or efficiency thereof, unless special means or precautions are taken to perform Work in manner acceptable to the Engineer.

PART 3 – EXECUTION

3.1 MILLING OPERATION

- A. Driveways & Structures: As a standard all driveway joints included within the limit of work roadway shall be milled unless otherwise specified or milling is unattainable or undesirable. All structures are to be protected from the milling operation and free of debris. All milling of driveways and adjacent to castings shall be measured and paid under Item 417. No additional compensation or payment for additional equipment shall be provided for milling joints, driveways, or working around castings and other obstructions.
- B. Transverse joints with existing pavement shall be cut back at a depth sufficient to allow placement of new pavement at the specified depth. All milling shall be measured on a total SY basis under Item 417. No additional compensation or payment for additional equipment shall be provided for milling transverse joints.
- B. After milling operation and until pavement application the edges of the utility casting, driveway mill limits, and other hard edges shall be painted with fluorescent orange paint to warn traffic of the hazard.

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3.2 EXCAVATION AND GRAVEL PLACEMENT

- A. Guard rails, curbing, drainage grates, utility boxes, signs, mailboxes, shrubs, trees, etc. in the area of the Work shall be protected, either by guarding or temporary removal and replacement. If damage occurs, repairs shall be completed using materials equal to that existing prior to construction. Repair costs for damaged items shall be the responsibility of the Contractor. Unavoidable disruptions to items resulting in removal/reset are incidental unless specifically provided for in the Contract.
- B. Where gravel adjustment is required, surfaces under paved areas shall be shaped to grade, line and cross section within one half (1/2) -inch positive or negative tolerance relative to sub grade elevations. Necessary additional gravel shimming shall be accomplished with the use of millings and paid under Item 203.6.

3.3 CASTING ADJUSTMENTS AND STRUCTURE REMODELS

- A. The Town may elect to replace any or all gate boxes, frames, grates and covers and frames as desired to meet town standards (regardless of size). Any new unused or salvaged castings shall become the property of the Owner and shall be returned to the DPW at 21 Cross Street, Salem, NH at no additional compensation.
- B. Gate boxes and frames for manhole covers shall be set flush with finish grade. Frames for catch basins shall be set ½-inch below finish grade. New pavement courses shall be luted around the rim to provide a smoothly transitioned depression.
- C. Prior to final setting of valve boxes the Salem Water department shall inspect gate boxes for debris. All valve boxes shall be clean of any dirt and debris.

3.4 PAVING OPERATIONS

- A. Prior to application of the wearing pavement ensure all driveway slopes are in harmony with the roadway to alleviate ponding or water flow out of the town right of way to private property. When driveways conflict with the roadway design special adjustments may be necessary to achieve the necessary slope to obtain the desired results. The Contractor shall make the Owner aware of such conditions prior to the final wearing course being installed.

3.5 PAVEMENT STRIPING AND MARKINGS

- A. The Contractor will be required to note the location and patterns of pavement markings existing before the markings are removed or obliterated and shall replicate them following the application of pavement, unless a modification is ordered by the Engineer.

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- B. All collector and arterial streets shall have fog lines applied, if they are not present already.
- C. Thermoplastic will replace all existing words, symbols, arrows, crosswalks and stop bars regardless if the existing markings were painted.
- D. No striping shall be placed until **72-hours** (minimum) following paving operations.

3.6 GRAVEL SHOULDERS

- A. In general, the Contractor will be directed to provide crushed gravel shoulder leveling in locations where the new paved surface is higher than the existing gravel edge and/or erosion is present. The plans attempt to identify all areas of necessary improvement however; not all locations will be known until after the road has been milled, shimmed and overlaid. All crushed gravel work will be considered unit item work regardless if shown on the plan. Final locations and limits of crushed gravel shoulders shall be identified and agreed upon by both the Owner and the Contractor. Any areas outside of the limits agreed to shall not be paid.

END OF SECTION 01010

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