

**2021 ROADWAY IMPROVEMENT PROJECT****Twinbrook Avenue, Iris Avenue****SALEM, NH****ADDENDUM No. 1****January 15, 2021**

This Addendum forms part of the Bidding and Contract Documents and modifies the Drawings and Contract and Specifications for the 2021 Roadway Improvement Project – Twinbrook Avenue, Iris Avenue. 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 7, 2020 and are hereby incorporated into the CONTRACT DOCUMENTS AND SPECIFICATIONS:

1. See attached Pre-Bid meeting agenda from January 12, 2021 prebid meeting.

The attached agenda considers three separate projects. The PreBid meeting for the projects was held simultaneously given similarity of work type.

2. **Insert** the attached Supplemental Conditions in the CONTRACT DOCUMENTS AND SPECIFICATIONS and **Discard** the original version of the noted Supplemental Conditions. Included are the following:
 - a. 603 – Culverts and Storm Drains
 - b. 604 – Catch Basins, Drop Inlets, and Manholes

The revised documents provide clarification on measurement and payment.

3. **Bid Item clarification:** 2" LPS force main. Nomenclature on the bid schedule is incorrect. The correct nomenclature shall be "**2**" dia. LPS Main – HDPE DR11"



Item description of bid item for low pressure sewer (LPS) should be 2". The plan is correct. Bid sheet nomenclature shall be pen-changed to reflect 2".

****END OF ADDENDUM NO. 1****

SALEM MUNICIPAL SERVICES

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ENGINEERING DIVISION

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MEETING AGENDA

Date: January 12, 2021

From: James Danis, Engineering Dept

Subj: 2021 Road Program Pre-Bid Meeting

Manor Pkwy, Freedom Drive, Lemay Rd

Twinbrook Ave, Iris Ave

Henry Taylor, Old Farm, Smallbrook Lane

Introductions:

Salem Engineering Dept

- James Danis - Town of Salem, Engineering Dept. - Project Lead
- Christine Wholley - Purchasing Agent
- Brian Colburn - McFarland Johnson
- Matt Moore - McFarland Johnson

Project Location:

- Manor Parkway
 - Industrial park, intersects with Pelham Rd & Industrial Way
 - Access from Exit 2
- Freedom Dr
 - Veterans Memorial Pkwy
 - Access from Exit 1
- Lemay Rd
 - N. Main St below Bluff St intersection
 - Access Exit 2
- Twinbrook Ave/ Iris Ave
 - South end of town.
 - Behind Hampshire St intersect w/Oak Ridge.
 - Off Wheeler Ave
 - Access Exit 1
- Henry Taylor Street, Old Farm Rd
 - North end of Town.
 - Henry Taylor Intersects with E. Broadway.
 - Old Farm intersects w/ Haverhill Rd
 - Access Exit 2 or 3
- Bid Alternates
 - Manor Pkwy – None.
 - Bid Schedule B – Rte 28 drainage



- Twinbook/Iris – None
 - Bid Schedule B – Sewer
- Henry Taylor St – 2 Alternates
 - Alternate 1 – Wilson St
 - Alternate 2 – Frary St Edwards St (gravel road conversions)

Project descriptions:

- Manor Pkwy
 - 2,300 LF, 34-feet wide
 - Reclaim In place
 - Minimal drainage (2 new catch basins & 2 pipe replacements)
 - 5.5" Pavement section with bit curb
 - Shoulder work – associated with curb install
 - Traditional Subdivision w/ 60-foot ROW
 - No utility work proposed
 - Rt 28 Drainage (schedule B)
 - West side between Rockingham Blvd & Cluff Crossing Rd
 - Fill ditch w/ infiltration pipe
 - Granite curb both sides of road
 - Drain structures on west side connecting to infiltration
 - Gutter adjustment for new drainage
 - Mill/overlay
- Freedom Drive
 - 600 LF, 30-feet wide
 - Reclaim in-place (primary). Remove/rehandle pending field layout of grades.
 - Replace sidewalk
- Lemay Rd
 - 1,580 LF, 16-feet wide
 - Reclaim in-place (primary). Remove/rehandle pending field layout of grades.
 - Box widen, shape & Pave
 - Shoulder work
 - 3 culverts
 - Water line extension
- Neighborhood Rds.
 1. Henry Taylor St
 - 1,820 LF, 16-feet wide & 18-feet wide
 - Reclaim in place & Reclaim, Remove, Rehandle w/Stone
 - 1,850 LF Drainage, 19 structures (ledge possible)
 - One utility pole move at Wilson (not in the way of construction)
 - Wilson St – Alternate 1
 - Reclaim in-place and remove/rehandle
 - Minor drainage w/ possible cross country run
 - Modified cul-de-sac construction
 - Frary St & Edwards St – Alternate 2
 - Gravel road conversion

- Box widening, grade & Pave
 - Drain connection and new outfall.
 - One pole move.
2. Old Farm Rd & Smallbrook Lane
 - 4,900 LF, 24-feet wide
 - Reclaim in-place, some stone supplement
 - ½ mill & overlay
 - 1,600 LF underdrain (beginning of old Farm) (ledge possible)
 - 18" culvert replacement w/ headwalls
 - 36" culvert w/headwalls.
 - Minor additional drainage
 3. Twinbrook Ave & Iris Ave
 - 1,750 LF, 20 & 24-feet wide
 - Reclaim in-place
 - Construct cul-de-sac on Iris
 - Minor drainage improvements (Iris)
 - 1,900 LF Underdrain (twinbrook). Minor ledge expected.
 - Sewer Expansion (twinbrook)
 - Water connection (Iris)
- Traditional Subdivision w/ 50-foot ROW (Old Farm, Twinbrook) , 40-foot ROW (Iris) , 20-foot ROW (Henry Taylor, Wilson, Frary, Edwards)
 - Base line control – Survey layout and best fit combination

Utilities

- Water on Manor Parkway, Freedom, Lemay, Twinbrook, Iris
- Sewer on Manor Pkwy, Freedom, Twinbrook, Iris
- Gas on Manor Pkwy, Freedom
- Utility Poles (Manor Pkwy, Freedom, Lemay, Henry Taylor, Twinbrook, iris)
 - Pole relocation on Henry Taylor & Frary
- Underground utilities (Old Farm Rd, Smallbrook Lane, Manor Pkwy)
 - No impact
- Impacts to existing utilities
 - Test pitting on Water main at crossings – redesign or relocation of proposed drain if conflicts
 - Test pitting on underground utilities adjacent to trenching activities.

Addendums

- Thursday/Friday this week all projects
- Manor Pkwy
 - New bid sheets – missing items, clarifications (gravel, crushed, crushed fine), temp pavement
 - Plans – No significant change – possible re-issue for clarifications – casting replacements
 - Rt 28 Drainage – to be added as Schedule B
- Freedom
 - Sidewalk prep part of new 3" bit sidewalk.

- Lemay
 - New plans – box widening clarifications
- Henry Taylor
 - Plans – pipe length classifications
 - New bid sheets – clarifications, additions
 - Alternate 2 - Box widening clarification on plans
- Old Farm
 - New bid sheets
- Twinbrook
 - 1.5" LPS in schedule should be 2" LPS.

Bids:

- **BIDS DUE**
 - **Manor Pkwy, Freedom Dr, Lemay Rd – 1:00 PM, January 21, 2021**
 - **Neighborhood Roads – Henry Taylor, Old Farm – 1:00 -- PM, January 21, 2021**
 - **Neighborhood Roads Twinbrook Ave/Iris Ave – 1:00 PM, January 19, 2021**
- Instructions to Bidders: **read it**
- Bid
- Qualifications & Subs
- Acknowledgement of Addendum #1 (and any others that may arise)
- Bid Bond – 5% of Contract
- Statement of non-collusion

Funding:

- Subject to Town vote in March
- Water & Sewer from different funding source

Required Documents for Winning Bidder

- Contract Award Status (NOA, NTP, Agreement)
- Performance, Payment, & Warrantee Bonds
- Insurance Certificates
- Contract Documents (3 copies)

Traffic Control

- Signage –Construction signage – minor in nature. No detours
- Police details – scheduling challenges
- Two way traffic during non-work hours

Permit

- NHDES Wetland permit
 - PBN permit for Old Farm Rd, Smallbrook Ln, Iris Ave

Construction Schedule

- Substantial Completion:
 - Manor Pkwy, Freedom Dr, Lemay Rd
 - **August 5, 2021**
 - Henry Taylor St, Old Farm Rd, Smallbrook Ln
 - **July 29, 2021**
 - Twinbrook Ave, Iris Ave
 - **July 15, 2021**
- Final Completion:
 - Manor Pkwy, Freedom Dr, Lemay Rd
 - **September 1, 2021**
 - Henry Taylor St, Old Farm Rd, Smallbrook Ln
 - **August 25, 2021**
 - Twinbrook Ave, Iris Ave
 - **August 11, 2021**
- Weekend/Holiday/night work - Not allowed

Submittals

- Shop Drawings
- Certificates of Compliance
- Cut sheets

Other Projects

- Tuscan Village
- Salem Depot Intersection
- Overlay Program (East Broadway)

SUPPLEMENTAL SPECIFICATION

AMENDMENT TO SECTION 603 – CULVERTS AND STORM DRAINS

Add section 603.2.13

- 2.13** Field cores into existing drain structures shall include necessary neoprene boot and hardware to install.

Add section 603.3.1.3.1

- 3.1.3.1** Refer to design drawings for installation. Where a conflict exists between Figure 1 and the design drawings the design drawings shall govern.

Add section 603.3.1.3.2

- 3.1.3.2** Delete subsidiary depth references from Figure 1.

Add section 603.3.11

- 3.11** Field cores into existing structures will be neatly cut with a circular hole saw. Use of a pipe saw, sledge hammer, jack hammer or other tools which cut a crude irregular shaped hole will not be allowed. Field cores shall be large enough to receive the new pipe and neoprene boot.

Replace Section 4.1.1 with the following:

- 4.1.1** No separate measurement will be made for elbows, bends, couplers, reducers or other methods of connection between pipes regardless of material type, size or material. This provision shall also apply to all connections whether pipe is new or existing.

Replace Section 4.3 with the following:

- 4.3** Video inspection will be measured by the day to the nearest ½ day based on an 8 hour work day commencing from the actual start time on-site.

Add section 603.4.4

- 4.4** Field cores into existing structures shall not be measured for payment except where specifically provided for in the bid. Where cores are authorized for payment they shall be measured by the number of cores completed.

Add section 603.4.5

- 4.5** Relaying or replacement of existing pipe within a structure excavation necessary for connection to a new drainage structure shall not be measured for payment but shall

be considered incidental to the installation of a drainage structure except where specifically called out for payment.

Amend section 603.5.1 by **replacing** “specified in 206.4.1” in the first sentence with “required to complete the installation as indicated on the plans”

Eliminate section 5.1.2

Replace Section 5.1.3 with the following:

5.1.3 Granular backfill, when specified or ordered, will be subsidiary.

Delete section 603.5.3 and **replace** with:

5.3 “Where deficient work has been determined through video inspection, the Contractor shall absorb all costs associated with video inspection. Where work has been determined to be acceptable costs for video shall be paid at the Contract unit price per day and will include all required labor, equipment and materials.

Add section 603.5.3.1

5.3.1 Where an item does not exist for video inspection payment shall be in accordance with Section 109 based on Subcontractor invoicing or Contract labor hours and equipment rates.

Add section 603.5.3.2

5.3.2 No additional compensation shall be provided for video inspection where a pipe is currently in service.

Amend section 603.5.8.1 by **adding** “No additional compensation shall be provided where additional suitable material is located within the project work area.” after the last sentence.

Add section 603.5.9

5.9 Where specifically provided for in the Contract, field cores into existing structures of the size required for the pipe installed will be paid for at the Contract unit price for each field core, complete and in place inclusive of neoprene boot and all necessary hardware.

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 604.2.11

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 #OMA552000066. All catch basin frames (single and double) installed at granite curbing locations shall be 3-flanged. All catch basin frames (single and double) installed with no granite curbing shall be 4-flanged.

Add Section 604.2.12

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 604.3.3 to Read:

- 3.3** When remodel/reconstruct 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 604.3.3.1 to Read:

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

Add Section 604.3.10

- 4.10** 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 Section 604.3.10.1

- 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 Section 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 Section 604.3.11

- 3.11** Structure change in type shall mean replacement of castings with the new type and construction of new brick inverts or removal of the existing inverts. Where reconstruction is

necessary (i.e. replacement of coats or flat tops and/or replacement of block or riser sections then that work shall be measured separately under its respective item number.

Add Section 3.12:

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

Add Section 3.13:

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

Method of Measurement

Amend 604.4.1 to Read:

4.1 Catch basins, drop inlets, and manholes will be measured by the number of units installed complete in place.

Amend 604.4.2 to Read:

4.2. Remodel/Reconstruction, adjusting, or change in type of catch basins, drop inlets, or manholes will be measured per structure reconstructed, adjusted, or changed type.

Add Section 4.6:

4.6 Relaying or replacement of existing pipe within a structure excavation necessary for connection to a new drainage structure shall not be measured for payment but shall be considered incidental to the installation of a drainage structure except where specifically called out for payment.

Amend 604 - Basis of Payment: Delete sections and replace with the following:

Basis of Payment

5.1 The accepted quantities of catch basins, drop inlets, and manholes, which includes the necessary frames and grates or covers with adjustment brick, of the type and diameter specified will be paid for at the Contract unit price per unit complete in place, including common structure excavation and setting to final grade, bedding, connection to existing pipes (inclusive of necessary reset or replacement), and backfill with the following stipulations:

5.1.1 Payment for structures indicated as "special" will be made by the complete unit of the depth shown on the plans. When an increase of 6-inches or greater is ordered from the depth shown, the unit depth will be adjusted in proportion that the constructed depth, measured to the nearest foot, bears to the depth shown on the plans. The proportion will be computed to no more than two decimal places.

5.1.2 All rock structure excavation and any excavation of unsuitable material outside the pay limit identified on the design drawings will be paid as provided in 206.

- 5.1.3** No extra allowance will be made for structures constructed in accordance with 3.4.
- 5.1.4** Water repellant treatment for new drainage structures will be subsidiary.
- 5.2** The accepted quantities of remodel/reconstruct, and for adjustment of catch basins, drop inlets, or manholes will be paid for at the Contract price per each complete in place, including replacing the top section, removing, replacing/adding riser sections or barrel block, reinstalling and final adjustment of frames and grates or covers with necessary brick adjustment.
 - 5.2.1** Replacement of non-conforming or damaged frames, grates, and/or rims shall be paid under their respective item numbers where provided for.
 - 5.2.2** No payment will be made for reconstructing/adjusting portions of the above structures which are unnecessarily disturbed.
 - 5.2.3** No separate payment will be made for excavation and backfill for reconstructing/adjusting the above structures.
- 5.3** The accepted quantities of structure change in type will be paid for at the Contract price per each complete in place, including construction of new brick invert or removal of the existing invert and replacement of the existing casting with new type including final adjustment of frames and grates or covers with necessary brick adjustment.
 - 5.3.1** Necessary reconstruction as described in 3.3 above will be paid under its respective unit item at contract unit prices.
 - 5.3.2** No payment will be made for portions of the above structures which are unnecessarily disturbed.
 - 5.3.3** No separate payment will be made for excavation and backfill for the above structures.
- 5.4** The accepted quantities of frames and grates or manhole covers will be paid for at the Contract unit complete in place, including setting to final grade and necessary brick adjustment (new or existing).
 - 5.4.1** Removal and disposal of existing non-conforming or damaged units shall be subsidiary to this item.
 - 5.4.2** Pavement patch shall be paid under 403.12 where castings are raised to final grade in areas that have received base/binder course of pavement. Pay limit areas shall be measured as 1-foot outside the exposed edge of the rim minus the area of the casting.
- 5.5** Testing of sewer manholes required in 3.7 will be subsidiary.
- 5.6** The accepted quantities of polyethylene liner will be paid at the Contract unit price per each installed complete in place.