

ADDENDUM NO. 1
DATED AUGUST 28, 2018
CROSS COUNTRY SEWER INTERCEPTOR REHABILITATION
SALEM, NEW HAMPSHIRE

The following changes and information are hereby incorporated into the Contract Documents

SPECIFICATIONS

Changes to Technical Specifications

- 1) The following "Additional Information" is provided to supplement information contained in the specifications.

ADDITIONAL INFORMATION

- 1) Attached are the notes from the Pre-Bid meeting and sign-in sheet held on August 22, 2018.
- 2) Manhole inspection logs from 2017 are attached for manholes 1503, 1504, 1505, 1506, 1507, and 1509 which indicate manhole invert and rim elevations, material, size, etc.
- 3) The Town has hired Busby Construction to pave the rail trail in the area of the work for this contract. This work is scheduled for September/October 2018. The successful bidder shall be aware of this work and shall coordinate work and trail access with the Town and Busby Construction. All bidders should be aware that the small gravel lot on Willow St. will be eliminated with curb as part of the Rail Trail project and will not be available for parking/storage for this project.
- 4) Estimated maximum day sewer flow in the project area is 1.7 MGD based on best available information. Bidders should be aware that peak hour flow may be higher.
- 5) The Town does not want project schedule to discourage bidders from submitting a bid and will allow work to be completed after October, 2018. However, bidders should be aware that the Rail Trail has no snow removal or other maintenance during the winter. The successful bidder shall be responsible for all work and costs associated with winter access.

UNDERWOOD ENGINEERS, INC.



Cole S. Melandy, P.E.
Project Manager

Dated August 28, 2018

Sign In Sheet

NON-MANDATORY PRE-BID MEETING

**Town of Salem, NH
Sewer Interceptor Rehabilitation
August 22, 2018 2:00 P.M.**

**TOWN OF SALEM
SALEM, NEW HAMPSHIRE**

CROSS COUNTRY SEWER INTERCEPTOR REHABILITATION
Pre-Bid Meeting
-MINUTES-

Town Hall, Knightly Room
33 Geremonty Drive
Salem, NH
August 22, 2018 2:00 P.M.

ATTENDEES

See attached Sign-in Sheet for list of attendees.

Addresses and Phone Numbers

Underwood Engineers

Cole Melendy, P.E. Project Manager
Ransom Horner-Richardson, Project Engineer
Phone: (603)-436-6192
Fax: (603)-431-4733
25 Vaughan Mall
Portsmouth, New Hampshire 03801

Town of Salem

Dan Hudson, P.E. Engineering Division
Director
Phone: (603)-890-2033
33 Geremonty Drive
Salem, New Hampshire 03079

Specifications and figures (included in appendix) can be downloaded from Town's purchasing website at <http://www.townofsalemnh.org/purchasing/pages/current-bids-proposals-and-awards>

Direct all technical questions to Underwood Engineers.

Project Overview

The scope of work includes the following:

Base Bid:

- Obtain NHDOT Access Permit to access work area via the Rail Trail.
- Provide UV-cure CIPP liner for approximately 530 LF of 15-inch sewer interceptor including TV inspection and sewer cleaning.
- Provide bypass pumping for sewer during rehabilitation.

Additive Alternate No. 1:

- Provide UV-cure CIPP liner for approximately 1030 LF of additional 15-inch sewer interceptor including bypass pumping, TV inspection, and sewer cleaning.

Bids

Bids are due **11:00 A.M. Thursday, August 30, 2018** at the office of the Purchasing Agent, Town Hall, 33 Geremonty Drive, Salem, NH, and will then be opened and read publicly. Bids shall be in a sealed envelope marked "PROPOSAL FOR SEWER INTERCEPTOR REHABILITATION (Bid No. 2018-026)". If bids are mailed, the sealed bid should be packaged in a second envelope, marked "PROPOSAL FOR SEWER INTERCEPTOR REHABILITATION (Bid No. 2018-026)" and mailed to: Office of the Purchasing Agent, 33 Geremonty Drive, Salem, NH 03079.

Addendum

An addendum, including pre-bid meeting minutes, will be posted to the purchasing website 2 days prior to the bid due date. Addenda issuance is Tuesday, August 28, 2018.

Funding

This project is being funded locally. No MBE/WBE requirements and no Davis-Bacon wage rates.

General Contract Requirements

Requirements include:

- 100% Performance bond.
- 100% Payment bond.
- \$50,000 2-year Warranty Bond (from substantial completion)
- Retainage will be 5% held until final completion.
- Insurance requirements and additional insured as noted in General and Special Conditions.
- Payment request frequency to be agreed between the successful Contractor and Owner at Contract signing.

Easements and Agreements

- Access manholes are located in easements through private property as indicated in the Contract Documents.
- Access to site will be from the NHDOT Rail Trail. The successful bidder will be responsible to obtain a NHDOT Access Permit. Details included in Appendix C.

Permits

- NHDOT Access Permit.
- If dewatering is required, NPDES General Permit for Construction Dewatering will be required.

Dewatering

If dewatering is anticipated during construction, the Contractor shall submit a Dewatering Plan, stamped by a Geotechnical Engineer registered as a P.E. in New Hampshire.

Manhole Access

Access manholes are located off the rail trail in a wetlands area. Contractor is responsible to

assess the site and provide all equipment and material necessary to access manholes and perform repairs.

Schedule and Time

The Town's goals for completion times for the project is October 31, 2018 for Substantial Completion and a Final Completion date of November 30, 2018 with a construction start date of September 10, 2018. Each contractor shall state their dates on their bid form.

It is anticipated that the Work will be completed during daylight hours unless specifically noted otherwise. Allowable work days and hours shall be as noted in the GENERAL CONDITIONS.

Other/Special Requirements

- Prior to the start of construction, the Contractor shall submit a By-Pass Pumping Plan to the Engineer and Town of Salem for review and approval (refer to Specification Section 01518).
- **The Town has hired Busby Construction to pave the rail trail in the area of the work for this contract. This rail trail paving work is scheduled for September/October 2018. The successful bidder shall be aware of this work and shall coordinate work and trail access with the Town and Busby Construction. All bidders should be aware that the small gravel lot on Willow St. will be eliminated as part of the rail trail work and will not be available for parking/storage.**

Questions and Answers

Q1: In the Bid Scope it states that the project will be completed during the 2018 construction season. Is it OK (since we are curing with UV and not thermal) to complete the project in Feb/March? (Precision Trenchless, 8/17/18)

A1: **There is no maintenance/snow removal for the rail trail during the winter. The Town is open to the possibility of the work being completed during the winter but the successful bidder would have to provide the required snow removal to provide the lining work.**

Q2: Are CCTV video files available for the reaches in the Base Bid and Add. Alt 1?

A2: Yes. Video inspection files can be downloaded at this link (Provided in Section 02011): <http://gofile.me/2RfIJ/6q0RgRmqO>. Please note that CCTV is from 2017 and conditions may have changed since the CCTV inspections. The inspection crew had difficulty dewatering the reaches entirely and other leaks or defects may be present below the visible water line.

Q3: What are the depths of the access manholes?

A3: See Addendum 1 for manhole inspection logs.

Q4: Are the provided flows for bypass Max day or peak hour flows?

A4: The 1.7 MGD provided is the maximum day sewer flow in the area of the work based on our best understanding. Peak hour flows may be higher.

Q5: Are point repairs part of the contract?

A5: No, the UV-cured liner is intended to fix the two big leaks and other defects in the reaches included in the base bid and additive alternate. Any additional material or work including pre-grouting, etc. required to repair sewer defects in each reach and furnish and install the liner is subsidiary to bid.

SMH INSPECTION REPORT

Location: X - country / Rail trail

ID No. 1503

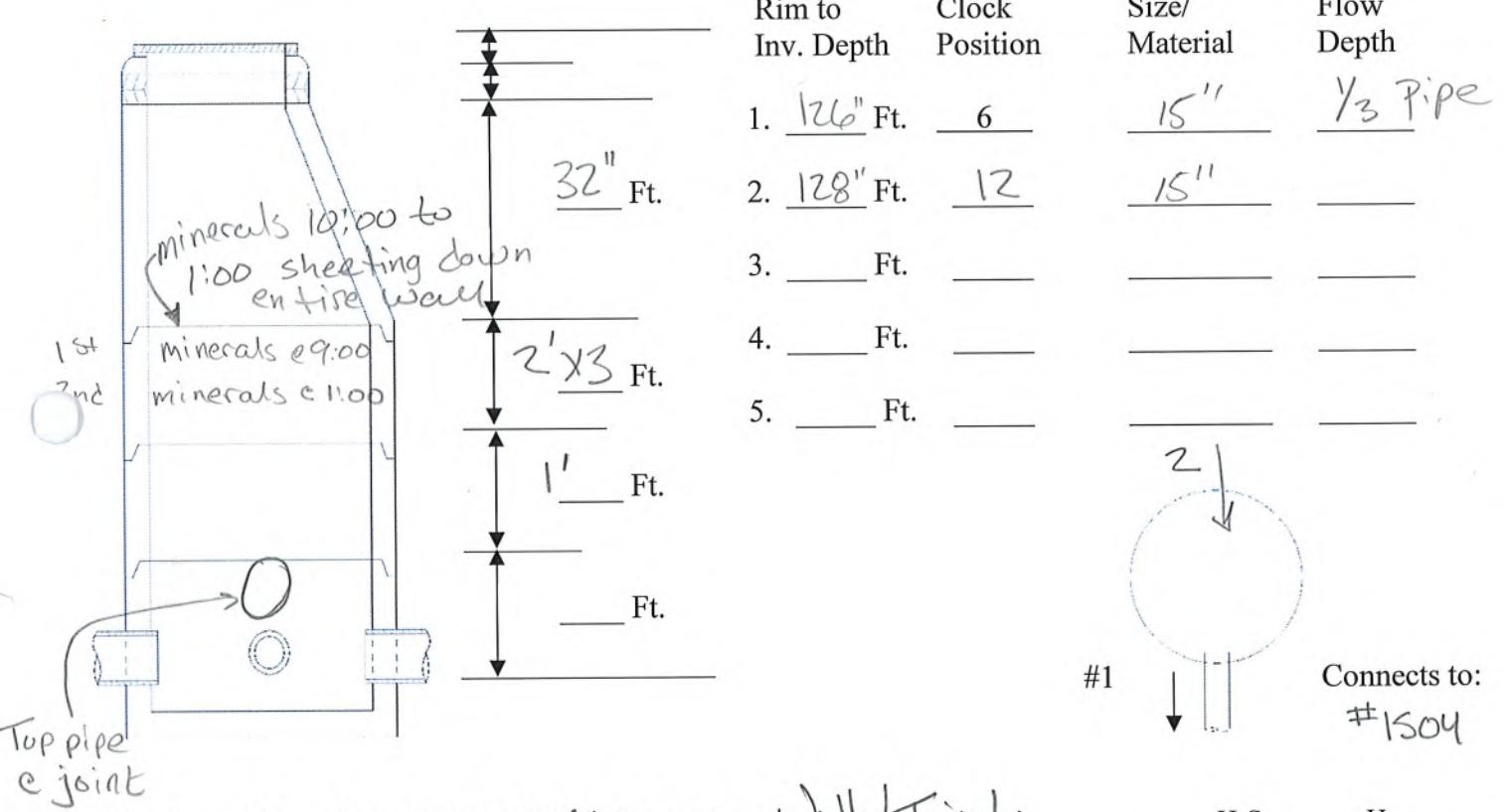
Dia. 4' Ft. Material: Pre-Cast By: DIR CSM

Date: 5/12/17

Clear Opening: 30" In. Corbel: N/A In. Frame 6" In.

Inflow Area
Potential: N/A S.F.

Notes: _____



Infiltration: None observed Est. GPM <0.01 Location: Walls/Joints H₂S _____ pH _____

Observations	Material	Condition Rating	Notes
Frame/Cover:	<u>Bolted</u>	<u>2</u>	<u>8" offset</u>
Corbel:	<u>N/A</u>		
Cone/Slab Top		<u>1</u>	
Walls		<u>3</u>	<u>Joint @ cone, Dripping <0.01 gpm</u>
Invert/Shelf		<u>2</u>	<u>Concrete debris on shelf</u>

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

Sewer Manhole Inspection Photos
2017 Infiltration and Inflow Evaluations
Salem, New Hampshire



Sewer Manhole Inspection Photos
2017 Infiltration and Inflow Evaluations
Salem, New Hampshire



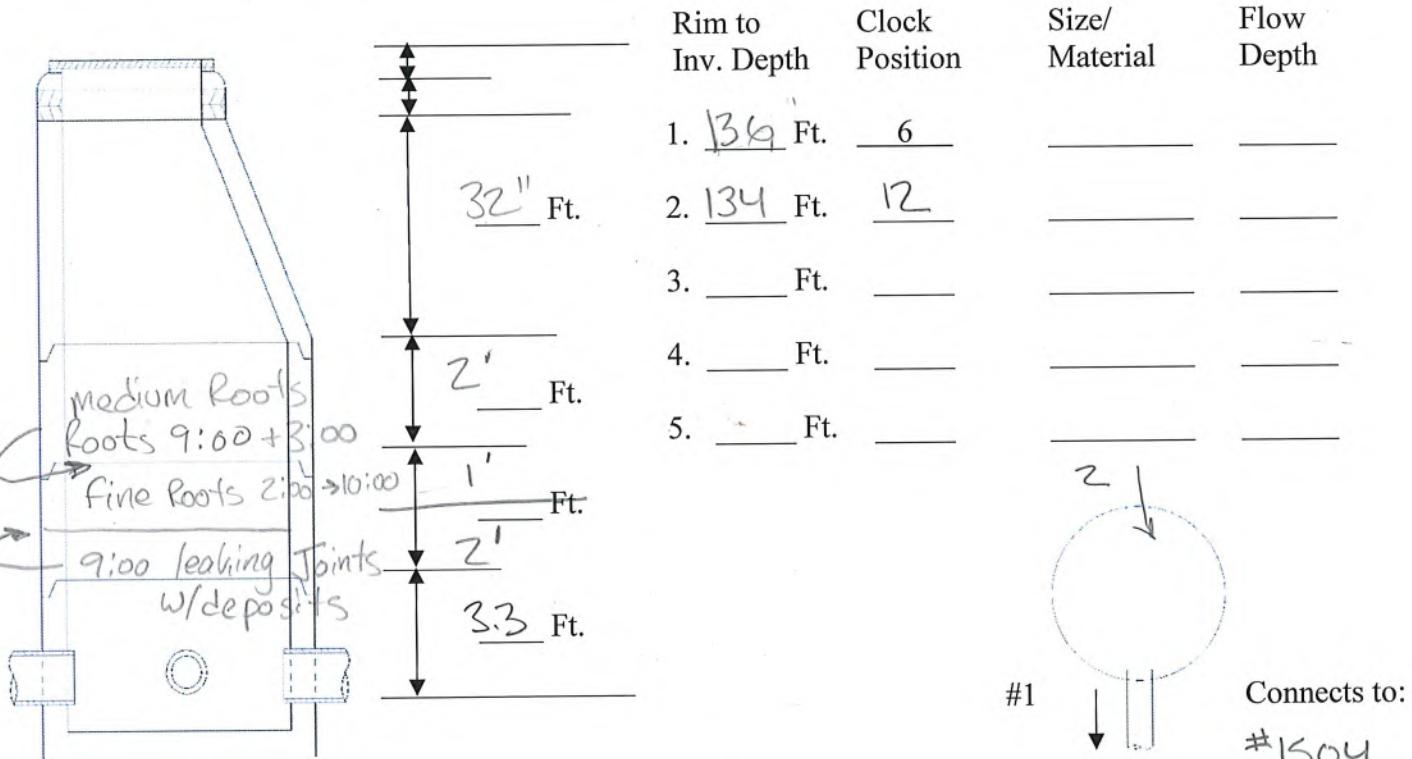
Sewer Manhole Inspection Photos
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Salem, New Hampshire



SMH INSPECTION REPORT

Location: X-country Rail trail ID No. 1504
 Dia. 4' Ft. Material: Pre-cast By: CSM DJR Date: 5/12/17
 Clear Opening: 30" In. Corbel: N/A In. Frame 6" In. Potential: N/A S.F.

Notes: Recommended removal of trees, Tap Root @ 3:00
Bolted cover



Infiltration: None observed Est. GPM <0.01 Location: Wells H₂S pH

Observations	Material	Condition Rating	Notes
Frame/Cover:		<u>1</u>	<u>New Bolted cover</u>
Corbel:	<u>N/A</u>	<u>N/A</u>	
Cone/Slab Top		<u>2</u>	
Walls		<u>3</u>	<u>Med+fine Roots, leaking Joint</u>
Invert/Shelf	<u>Brick</u>	<u>2</u>	

Condition Rating Codes:

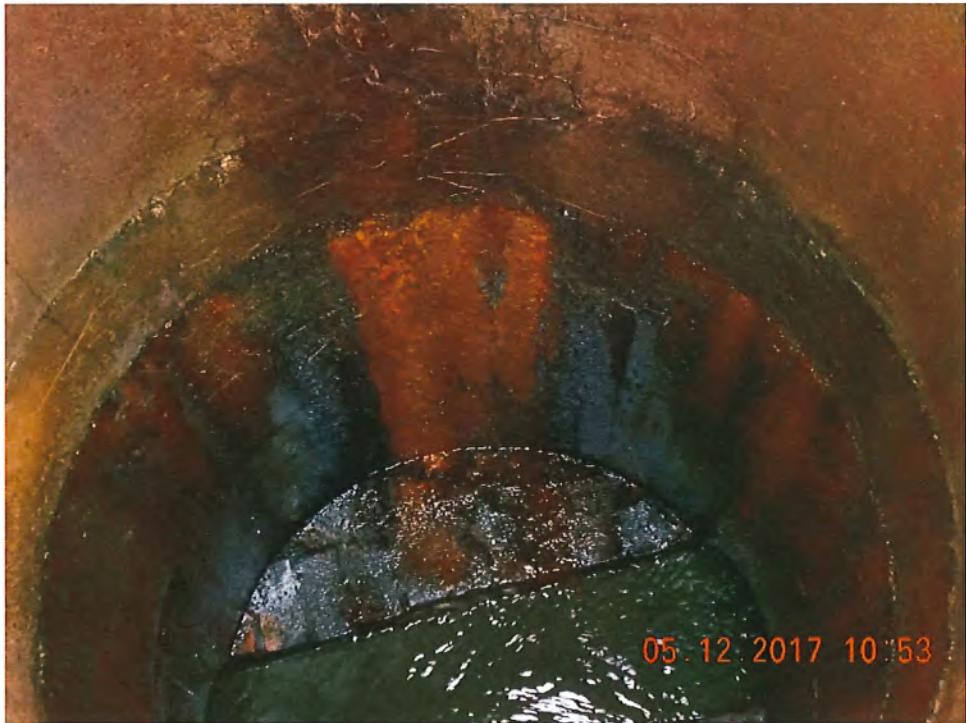
1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

<0.01 gpm

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2017 Infiltration and Inflow Evaluations
Salem, New Hampshire



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2017 Infiltration and Inflow Evaluations
Salem, New Hampshire



Project No. 2175
Municipality Salem, NH

SMH INSPECTION REPORT

Location: X-country / Rail trail

ID No. 1505

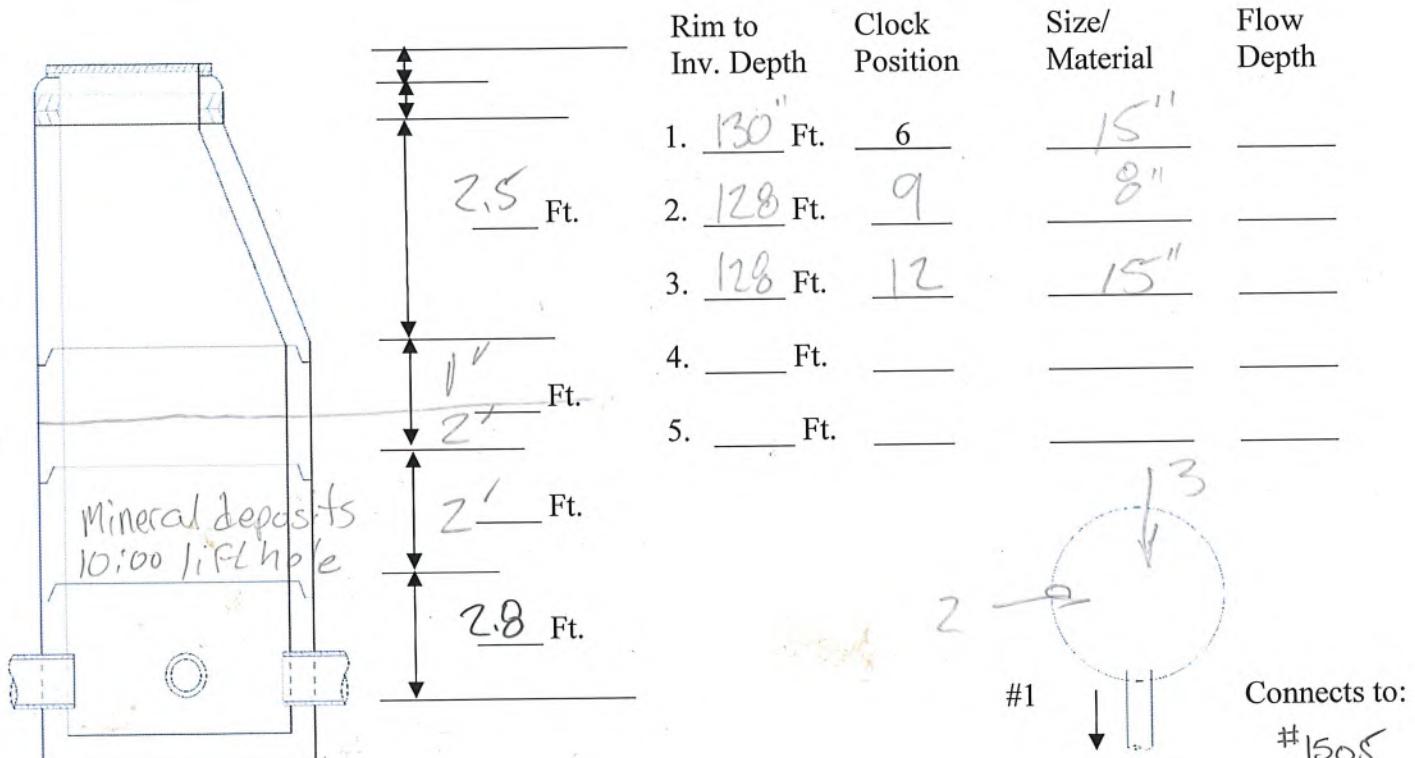
Dia. 4' Ft. Material: Pre-Cast By: DLR Lsm

Date: 5/12/17

Clear Opening: 30" In. Corbel: 0 In. Frame 6" In.

Inflow Area
Potential: N/A S.F.

Notes: _____



Infiltration: None observed Est. GPM < 0.01 Location: Walls H₂S pH

Observations	Material	Condition Rating	Notes
Frame/Cover:		1	Bolted
Corbel:		N/A	
Cone/Slab Top		2	
Walls		3	
Invert/Shelf		2	

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

Sewer Manhole Inspection Photos
2017 Infiltration and Inflow Evaluations
Salem, New Hampshire



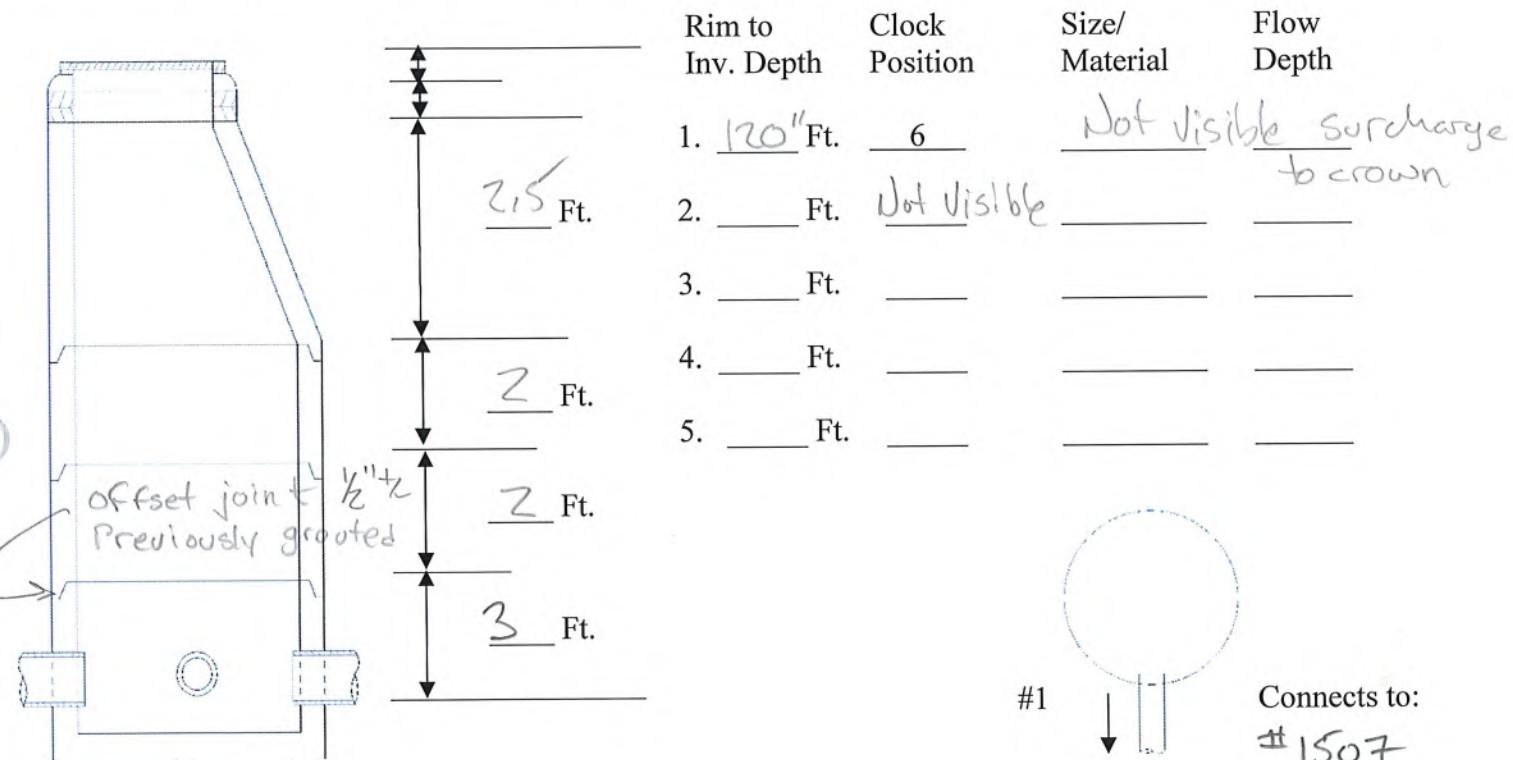
Sewer Manhole Inspection Photos
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SMH INSPECTION REPORT

Location: X-country Rail trail ID No. 1506
 Dia. 4' Ft. Material: PreCast By: DTR CSm Date: 5/12/17
 Inflow Area
 Clear Opening: 30" In. Corbel: 0 In. Frame 6" In. Potential: N/A S.F.

Notes: Manhole surcharged to crown
Inlet possibly lower than outlet based on H₂O level



Infiltration: None observed Est. GPM Location: H₂S pH

Observations	Material	Condition Rating	Notes
Frame/Cover:		1	Bolted New
Corbel:		N/A	
Cone/Slab Top		2	
Walls		2	Previous grouting/grout @ bottom, seam
Invert/Shelf		N/A	Not visible

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

Sewer Manhole Inspection Photos
2017 Infiltration and Inflow Evaluations
Salem, New Hampshire



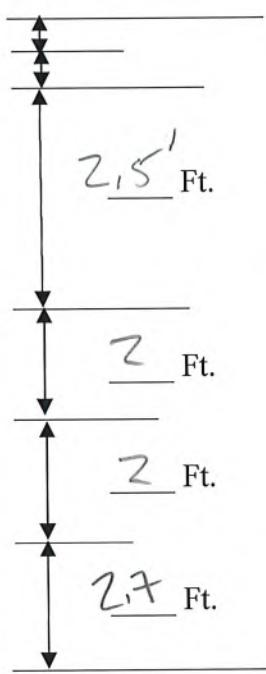
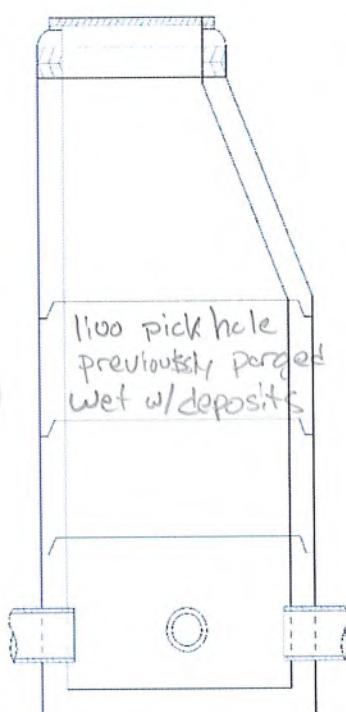
SMH INSPECTION REPORT

Location: X-Country Rail trail ID No. 1507

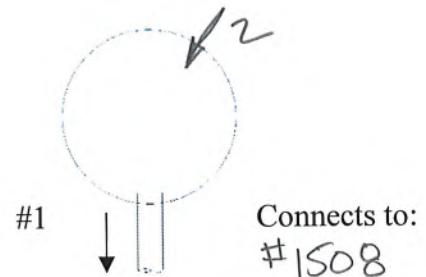
Dia. 4 Ft. Material: Pre-Cast By: DTR CSM

Clear Opening: 30" In. Corbel: 0 In. Frame 6" In. Potential: N/A S.F.

Notes: Surcharged to top of Invert shelf



Rim to Inv. Depth	Clock Position	Size/ Material	Flow Depth
1. <u>116</u> Ft.	<u>6</u>	<u>15"</u>	<u>Full Pipe</u>
2. <u> </u> Ft.	<u>1</u>	<u>15"</u>	<u> </u>
3. <u> </u> Ft.	<u> </u>	<u> </u>	<u> </u>
4. <u> </u> Ft.	<u> </u>	<u> </u>	<u> </u>
5. <u> </u> Ft.	<u> </u>	<u> </u>	<u> </u>



Infiltration: None observed Est. GPM 50,01 Location: Walls H₂S pH

Observations	Material	Condition Rating	Notes
Frame/Cover:		<u>1</u>	<u>Botted New</u>
Corbel:		<u>N/A</u>	
Cone/Slab Top		<u>2</u>	
Walls		<u>3</u>	<u>all Joints previously perged</u>
Invert/Shelf		<u>N/A</u>	<u>Not visible</u>

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

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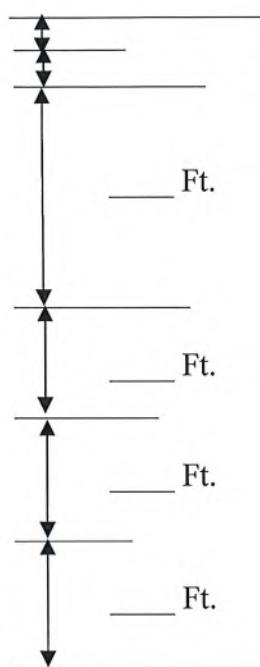
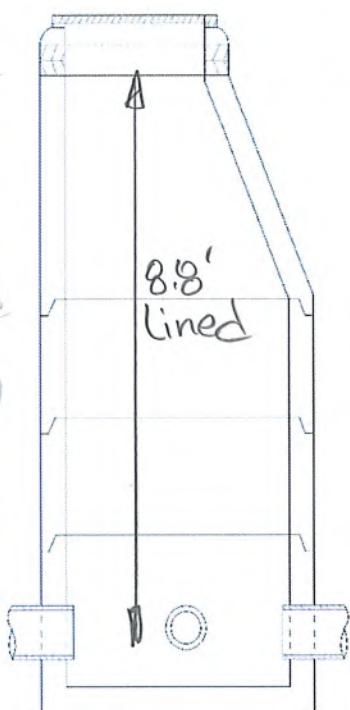
SMH INSPECTION REPORT

Location: X-country Rail trail ID No. 1508 1509

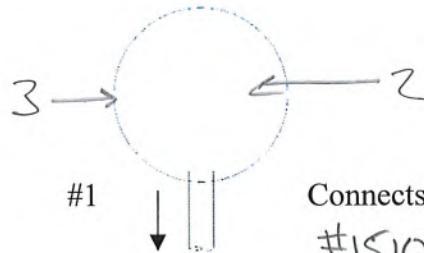
Dia. 4' Ft. Material: lined Pre-cast By: DTR Csm Date: 5/12/17

Clear Opening: 30 In. Corbel: 25" In. Frame 6" In. Inflow Area Potential: N/A S.F.

Notes: _____



Rim to Inv. Depth	Clock Position	Size/ Material	Flow Depth
1. <u>137</u> Ft.	<u>6</u>	<u>15"</u>	<u>1/3 pipe</u>
2. <u>135</u> Ft.	<u>3</u>	<u>15"</u>	_____
3. <u>129"</u> Ft.	<u>9</u>	<u>8"</u>	<u>1/2" +</u>
4. _____ Ft.	_____	_____	_____
5. _____ Ft.	_____	_____	_____



Connects to:
#1510

Infiltration: None observed Est. GPM _____ Location: _____ H₂S _____ pH _____

Observations	Material	Condition Rating	Notes
Frame/Cover:		2	Frame is cracked.
Corbel:		2	lined, peeling away
Cone/Slab Top		2	roots through liner at corbel joint
Walls		2	Previously lined
Invert/Shelf		2	Previously lined.

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
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