

**VASSALBORO SANITARY DISTRICT
MANHOLE REHABILITATION PROJECT
BID OPENING: JUNE 9, 2022
ADDENDUM #1 – 6/6/22**

Minutes of Pre-Bid Meeting held June 1 at Vassalboro Sanitary District

Attendance:

Richard Green, Water Quality & Compliance Services, Inc
Becky Goodrich, Treasurer, Vassalboro SD
Ray Breton, Chairman, Vassalboro SD
Al Roy, Board of Directors, Vassalboro SD
Don LeBlanc, DLVEWS, Inc.
Ed Manter, Manter Construction
Ben Piper, Pratt Construction

1. The Vassalboro Sanitary District is the owner. The district is a quasi-municipal organization separate from the Town of Vassalboro. The Engineer is Water Quality & Compliance Services, Inc.
2. Scope of the project is to rebuild the tops and raise 72 sanitary sewer manholes, most located in roadway. Frames and covers will be reused or replaced as needed. Pavement will be cut and repaved. MH's will be cleaned by vactor truck, paid by allowance.
3. Need to coordinate with Town of Vassalboro. Cemetery Street will be repaved during the project, five manholes on that street will need to be done in coordination with the paving. Director of Public Works Gene Field 923-3985.
4. Approximately half the manholes are located within State of Maine DOT roadways – Route 32, Oak Grove, South Stanley Hill Road. Contractor will need to provide adequate traffic control and meet all requirements of opening permit.
5. Other Utilities are
 - a. Kennebec Water District
 - b. East Vassalboro Water Company
 - c. Central Maine Power
 - d. Consolidated Communications/Fairpoint
 - e. Charter Communications
6. Project funding is local by the district. The project is not subject to Davis Bacon wage rates nor Buy American Law, and no bonds are required other than insurance as described in the specifications.
7. Project Time is 90 days to substantial completion, 120 days to final completion.
8. Payments will be monthly, with a 5% retainage on work performed and materials stored. 100% will be due upon substantial completion, less the value of work still to be performed.
9. Project sequencing - Cemetery Street will need to be coordinated with the Town of Vassalboro, Gene Field, Public Works Director. Main Street work is a priority for the district and should be performed as soon as possible.

Questions from meeting:

1. Will a traffic control plan need to be submitted? Yes, the plan will be submitted to the Engineer who will coordinate with MDOT. Local streets will also need the same level of traffic control or as allowed by the Town of Vassalboro.
2. What are the specifications for the new manhole frames and covers? The manhole frame and cover requirements are contained in the specifications Section 333000. A revision to this section is attached to this addendum. The covers should be constructed of gray iron and meet all the specifications. The highest quality materials and craftsmanship should be used for fabrication. The frames and covers do not need to be US made, but must meet all specifications. The original manholes installed in 1982 contained 26" diameter covers. The sewer extensions done in 2019 used 32" diameter covers. It is anticipated that some of the original 1982 frames and covers will need to be replaced. It is not expected that the 2019 frames and covers will need to be replaced. The unit price should assume the use of 26" diameter covers, 6 inches deep, meeting all the specifications of the contract documents and Maine Department of Transportation. The contractor shall furnish and install the replacement frames and covers.
3. What are the details for repaving the excavations? The detail drawing has been revised to include better detail. All work shall be done in accordance with the latest edition of MDOT's Utility Accommodation Policy.

The following revisions to the plans and specifications are attached:

1. Bid Form – The quantity of manhole frames and covers estimated to be replaced was increased to 25.
2. Section 013000 Administrative Requirements
 - a. Listed State Road Names
 - b. Added requirement to follow MDOT requirements and standards on Town Roads as well as state roads.
3. Section 333000 Manhole Rehabilitation
 - a. The final grade of the manhole was revised from ¼ inch to ¼ inch or less.
 - b. The use of concrete adjustment risers was changed to allow the risers to be used to bring surface up to 8-12" below the final grade.
4. Detail Sheet 4 of 4 was revised to show more detail on the paving repairs.

Attachments: Bid Form, Spec Section 013000, Spec Section 333000, Detail Plan Sheet

**004100
BID FORM**

**PROJECT IDENTIFICATION: VASSALBORO SANITARY DISTRICT
 SEWER MANHOLE REHABILITATION PROJECT
 TABLE OF CONTENTS**

	Page
Article 1 – Bid Recipient	1
Article 2 – Bidder’s Acknowledgements	1
Article 3 – Bidder’s Representations.....	1
Article 4 – Bidder’s Certification	2
Article 5 – Basis of Bid.....	3
Article 6 – Time of Completion	3
Article 7 – Attachments to this Bid	3
Article 8 – Defined Terms.....	4
Article 9 – Bid Submittal.....	4

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

**Vassalboro Sanitary District
Attn: Board of Trustees
PO Box 183
275 Cemetery Street
North Vassalboro, Maine 04962**

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

<u>Addendum No.</u>	<u>Addendum, Date</u>
_____	_____
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

- E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
1	Manhole Rehabilitation	Each	72		
2	New MH Frame and Cover	Each	25		
3	Final Paving	Ton	150		
4	MH Cleaning	Allowance	1	\$29,000	\$29,000
Total of All Unit Price & Allowance Bid Items (Items 1-4)					\$

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor’s overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

Total of Unit Price Bids + Allowance = Total Bid Price \$ _____

ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

7.01 The following documents are submitted with and made a condition of this Bid:

- A. List of Proposed Subcontractors;
- B. List of Proposed Suppliers;
- C. List of Project References;
- D. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;
- E. Contractor’s License No.: [or] Evidence of Bidder’s ability to obtain a State Contractor’s License and a covenant by Bidder to obtain said license within the time for acceptance of Bids;

F. Required Bidder Qualification Statement with supporting data; and

ARTICLE 8 – DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

By:

[Signature] _____

[Printed name] _____

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

[Signature] _____

[Printed name] _____

Title: _____

Submittal Date: _____

Address for giving notices:

Telephone Number: _____

Fax Number: _____

Contact Name and e-mail address: _____

Bidder's License No.: _____

(where applicable)

SECTION 013000

ADMINISTRATIVE REQUIREMENTS

1. COORDINATION REQUIREMENTS

- A. Contractor shall coordinate all work with the Town of Vassalboro, Vassalboro Sanitary District, local property owners, utilities, Maine Department of Transportation, and any other entities that have jurisdiction within the specific project area. Coordination shall include giving required notice; scheduling; obtaining approvals, permissions, permits, easements, or other required authorizations.
- B. The Town of Vassalboro, through its Public Work Department, will be performing a pavement overlay on Cemetery Street concurrent with this project. The contractor shall prioritize coordination with the Town and its contractor to make the final manholes flush with the new pavement before the overlay is placed.
- C. The Owner has obtained Highway Opening Permits from the Maine Department of Transportation and Town of Vassalboro. The contractor shall comply with all conditions stipulated in the permits. The Contractor shall have sole responsibility for arranging deviations from these permits. All work shall comply with the latest revision of Maine DOT's Utility Accommodation Rules (17-229 CMR Chapter 210). The following roads are MDOT state Roads: Route 32, Oak Grove Road, South Stanley Hill Road.
- D. The contractor shall coordinate and comply with all requirements of the Town of Vassalboro Department of Public Works, Police, and Fire Departments. All work shall meet the minimum requirements and standards called for in the MDOT highway opening permit, including work done on Town Roads.
- E. Should the Contractor damage any utilities, the Contractor shall immediately notify the Owner of the utility and the Engineer. Any repairs or modifications to existing utilities shall be made with the approval of the utility owner and shall be inspected by the utility owner prior to backfill.
- F. The contractor shall contact Dig Safe prior to starting any excavation.

2. LIST OF CONTACTS

- A. The Contractor shall be fully responsible for coordination with the following utilities or entities during the entire contract period. This list is not guaranteed to be complete or accurate. It is the responsibility of the contractor to obtain the correct contact information if necessary.
- B. The Town of Vassalboro

Town Manager, Mary Sabins, 207-872-2826
Public Works Foreman, Eugene Field, 207-441-7261
Vassalboro Fire Department 207-649-1236 - Emergency, 911
Vassalboro Police Department, 207-557-4601 - Emergency, 911
Vassalboro Code Enforcement, Ryan Page, 207-872-2826

- C. Vassalboro Sanitary District Committee
Committee Chair, Ray Breton, 207-877-2005
Rebecca Goodrich, 207-649-3209
Lee Trahan, 207-692-2421
Alfred Roy, 207-923-3971

- D. Kennebec Water District (North Vassalboro)
Emergency Contact Number, 207-872-2763
Jared Bragdon 207-509-9263
Jefferson Longfellow 207-692-4835

- E. Maine Department of Transportation (MDOT)
Randy Rodrigue
Randy.Rodrigue@maine.gov
(207) 624-8200

- F. East Vassalboro Water Company
Donald Robbins, operator and co-owner
207-592-5998, cell
207-923-3206, landline
dhwrobbins@gmail.com

- G. Electric Utility - Central Maine Power - Customer Service 800-565-3181,
Emergencies 800-696-1000

- H. Telephone and Data – Consolidated Communications
Bryan Kenison, area manager
Office 207-642-7205, cell is 207-650-1022

- I. Charter Communications

- J. Maine State Police, Augusta, 207-624-7076 - Emergency, 911

3. PRECONSTRUCTION MEETING

A preconstruction meeting will be held between the Contractor, Engineer, Owner, and Maine Department of Environmental Protection to review the Contractor's proposed methods of complying with the requirements of the Contract Documents. Others on the list of contacts will also be invited to

attend the meeting. The engineer will arrange the meeting and notify the contractor of the date, time, and place where it will be held.

4. PROGRESS MEETINGS

Monthly progress meetings shall be held during active construction periods. In attendance shall be a person in responsible charge representing the Contractor, representative of the Owner, Engineer, and Department of Environmental Protection. Others on the list of contacts will also be invited to attend the meeting if appropriate.

END OF SECTION

SECTION 333000

MANHOLE REHABILITATION

1. MANHOLE DESCRIPTION AND LOCATION

- A. This section contains a list of all manholes intended to be rehabilitated during this project. The physical locations of each are shown on the plans.
- B. List of manholes, location, and opening diameter is on page 333000-2. 24 inch opening size were installed in 1982; 30 inch opening size were installed in 2019.

2. DESCRIPTION OF THE WORK

- A. Associated work is Traffic Control, Demolition, Excavation and Fill, Paving
- B. Manhole Rehabilitation includes:
 - 1. Cut existing roadway pavement to the minimum practicable extent
 - 2. Remove and dispose of cut pavement
 - 3. Remove old frame and covers and clean off for reuse; do not reuse metal adjustment inserts. Use wire brush to remove loose rust and deposits from frame and covers.
 - 4. Excavate and demolish old brick and mortar, or concrete donut risers, down to the solid precast manhole cone or barrel slab
 - 5. Clean and prepare precast concrete surface for synthetic grade adjusting rings. Surface should be smooth and level. If surface is imperfect, patch or repair using the specified grout. Allow to set up before installing rings.
 - 6. Install new synthetic grade adjustment rings using the minimum number of rings the required height. Install according to manufacturer's instructions and use sealant as recommended by the manufacturer. **Install to ¼ inch or less below the final pavement surface, or as shown on the plans for non-paved areas.**
 - 7. Backfill using excavated material or suitable backfill as specified. Compact in maximum 6" lifts to the specified compaction density. If paving is not done immediately, bring backfill or temporary pavement up to surface grade of existing pavement.
 - 8. Install final HMA pavement repair as specified. Final surface should match the existing pavement with no dips, rises, or bumps in the pavement.

3. PRODUCTS USED

- A. Grade Adjustment Rings
 - 1 Rings shall be designed to adjust manhole frame and cover to within ¼ inch of level or sloping surfaces. The rings shall be available in multiple

thicknesses to allow the needed range of adjustment with a minimum of rings used.

2. Two products will be acceptable for use on this project. No other like, equivalent, or 'or-equal' item is permitted:
 - a. Injection Molded High Density Polyethylene Adjusting Rings as manufactured by Ladtech, Inc. The adjustment rings shall be provided new by Ladtech and meet all their specifications and warranties.

The adhesive sealant shall be Kent Seal No 2 Butyl Sealant ½" rope caulking or equal. Material must meet or exceed the requirements of Federal specifications SS-S-00210 (210A), ASTM C-990 and AASHTO M-198.

- b. Expanded Polypropylene (EPP) PRO-RING manufactured by Cretex Specialty Products, black. 5000 series meeting ASTM D3575 and ASTM D4819-13; B6D7G4L3M24S2T17W7. The rings shall be manufactured using a high compression molding process to produce a finished density of 120 g/l ((7.5 pcf). Rings shall contain tongue and groove keyways to ensure proper alignment and adhesion. Rings shall be new and supplied by manufacturer.

Adhesive Sealant used to seal between the PRO-RING adjusting rings shall be as required by the adjusting ring manufacturer and equal to Chemlink M-1 sealant. The sealant shall meet the following specifications:

ASTM C-920, Type S, Grade NS, Class 35, Uses NT, T, M, G, A and O
Federal Specification TT-S-00230-C Type II, Class A
Corps of Engineers CRD-C-541, Type II, Class A
Canadian Standards Board CAN 19, 13-M82
AAMA 802.3-08 Type II, AAMA 803.3-08 Type I and AAMA 805.2-08 Group C

3. Rings shall meet the minimum requirements of AASHTO M-306, H-25 and HS-25
 4. Adjustment rings must be rated for a minimum of 50 years of service life, and include a minimum 25 year warranty on defects or material failures.

B. Concrete Grade Adjustment Rings

If the depth to the top of the solid concrete manhole structure is greater than 12 inches below grade, one concrete grade adjustment ring may be used as the bottom course to bring it to within 8 - 12" of finish grade. Concrete rings shall

meet the requirements of ASTM C-478, fiber reinforced, minimum 4,000 psi strength concrete.

C. Cementitious Mortar and Grout

1. Patching mortar is used for patching of precast surfaces less than ½ inch thick and shall be a one component, quick set, high strength, non-shrink; polymer modified cementitious patching mortar, equivalent to Octocrete by IPA Systems. Patching mortar should be allowed an initial set before placing adjustment rings.
2. Structural Grout is used for repairs ½ thick or greater and shall be a premixed, non-metallic, high strength, non-shrink grout which meets the requirements of ASTM C-191 and C-827 as well as CRD-C-588 and C-621. When mixed to a mortar or "plastic" consistency, it shall have minimum one day and 28 day compressive strength of 6,000 and 9,000 psi, respectively. Grout shall be equal to PennGrout by IPA Systems
3. The joint between the first grade ring and top of the manhole structure shall be sealed using an adhesive/sealant as recommended by the ring manufacturer. If the top of the manhole structure is not level or is irregular, then a non-shrink repair mortar or non-shrink cementitious grout meeting the requirements above shall be used. A bed of the specified mortar or grout shall be placed on the top surface of the utility structure and then the first grade ring shall be embedded and leveled into the bed of material.

D. Manhole Frames and Covers

Frames and covers shall match the size and quality of those being replaced and shall be clearly marked "SEWER." Materials shall be Gray Iron (ASTM A48 CL35B). Frames and covers shall be heavy duty with a load rating of up to 40,000 lbs. Castings shall be at least Class 30 conforming to the ASTM Standard Specification for Gray Iron Castings, Designation A48. Castings shall comply and exceed AASHTO H-20/HS-20S specifications and are proof load tested for 40,000 lbs as per AASHTO M-306 specifications. Manhole covers shall have two lift holes 180 degrees apart and shall be matched to the frames with machined surfaces. Manholes shall be equal to Frame

4. LIST OF MANHOLES

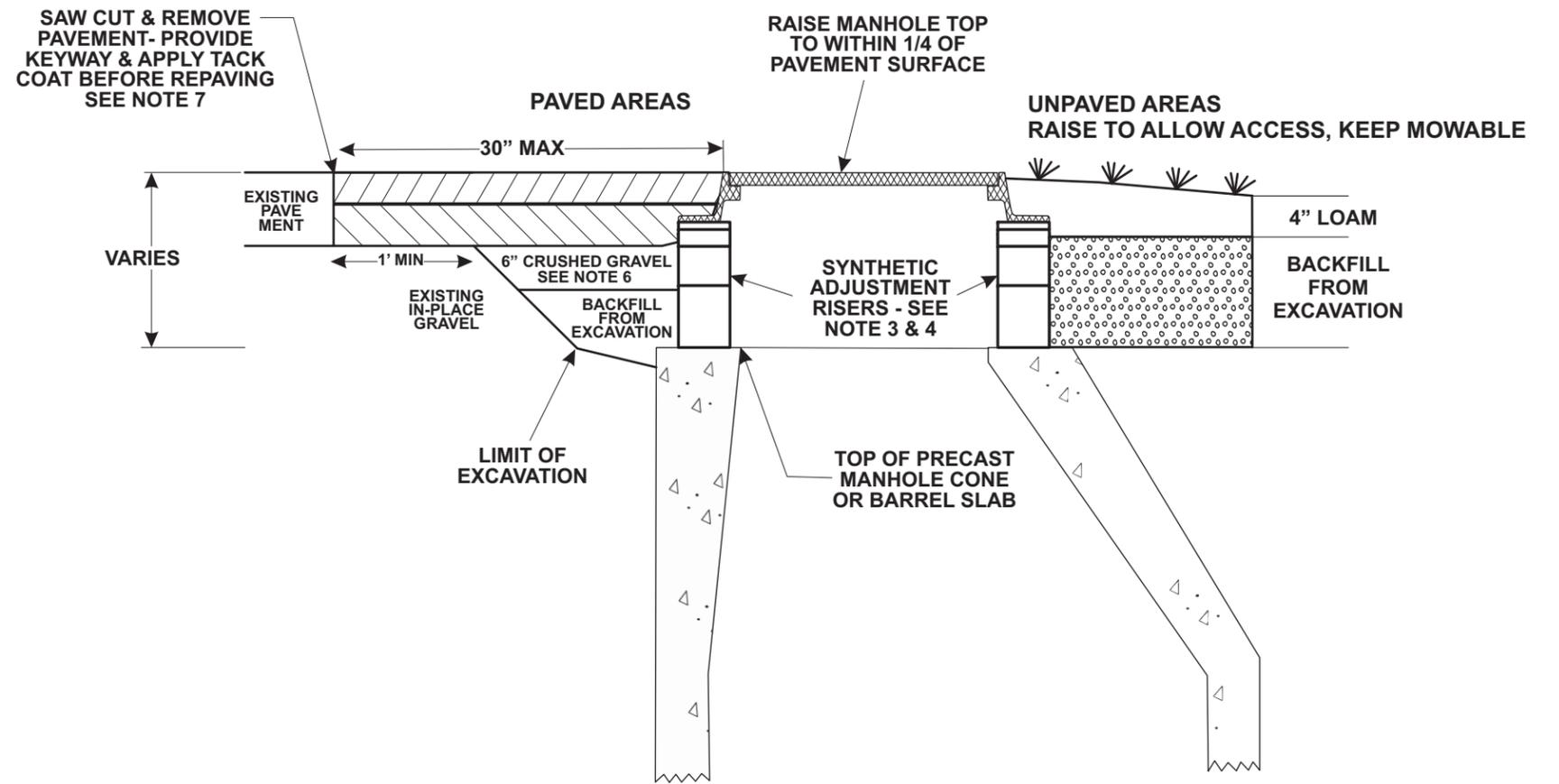
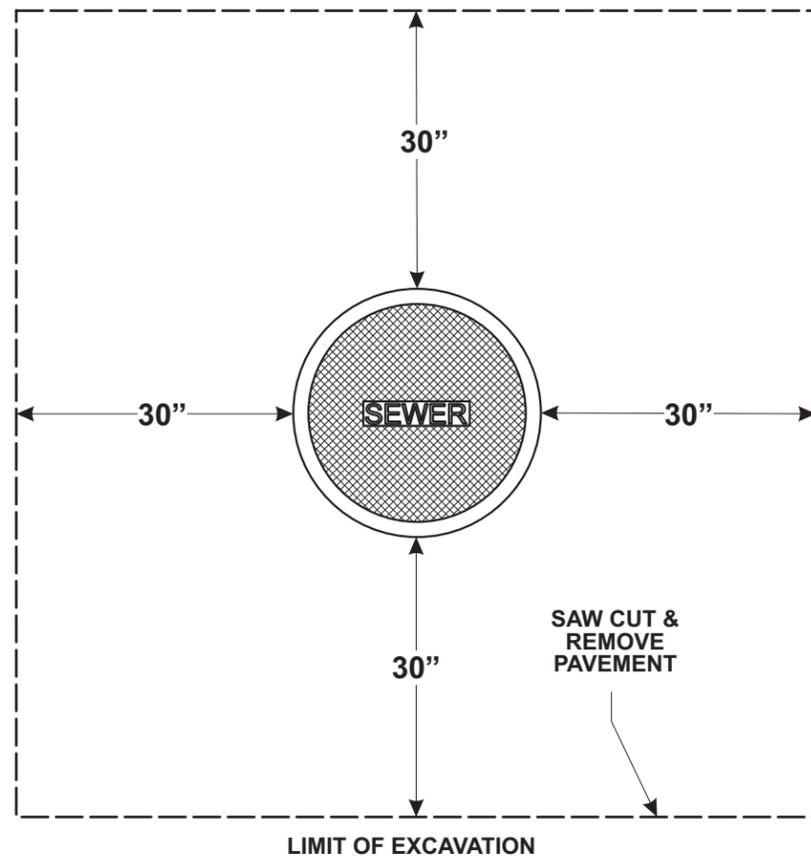
Manhole Rehabilitation Project

MH Name	Street	Year Installed
1	Main	1982
2	Main	1982
3	Main	1982
4	Main	1982
5	Main	1982
1E	Main	1982
2E	Main	1982
3E	Main	1982
4E	Main	1982
5E	Main	1982
6E	Main	1982
7E	Main	1982
9E	S Stanley	1982
10E	R/W(S. Stanley)	1982
1N	Main	1982
2N	Main	1982
3N	Main	1982
4N	Main	1982
5N	Main	1982
6N	Main	1982
7N	Main	1982
8N	Main	1982
9N	Maple	1982
10N	Maple	1982
11N	Maple	1982
12N	Maple	1982
13N	Willow	1982
14N	Willow	1982
15N	Willow	1982
16N	Oak Grove	1982
17N	Cemetery	1982
18N	Cemetery	1982
19N	Cemetery	1982
20N	Cemetery	1982
21N	Cemetery	1982
22N	Main	1982

Vassalboro Sanitary District Vassalboro, ME

MH Name	Street	Year Installed
23N	Main	1982
24N	Main	1982
25N	Main	1982
26N	Main	1982
27N	Main	1982
28N	Main	1982
29N	Main	1982
30N	Horsehoe	1982
31N	Horsehoe	1982
32N	Priest Hill	1982
33N	Priest Hill	1982
34N	Preble Hill	1982
35N	Lang	1982
36N	Lang	1982
37N	Preble Hill	1982
37X	Preble Hill	1982
38N	Preble Hill	1982
39N	Oak Grove	1982
40N	Oak Grove	1982
41N	Canal	1982
42N	St Brigett	1982
47n	N Main PS	1982
51N	Oak Grove	1982
52N	Oak Grove	1982
53N	Oak Grove	1982
54N	Main	1982
55N	Main	2019
56N	Main	2019
57N	Main	2019
58N	Main	2019
59N	Main	2019
60N	Main	2019
61N	Main	2019
62N	Main	2019
63N	Main	2019
64N	Main	2019

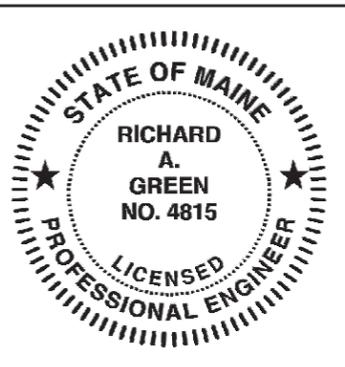
END OF SECTION



NOTES

1. COVER PRECAST MANHOLE OPENINGS TO PREVENT MATERIAL FROM ENTERING MANHOLE DURING CONSTRUCTION.
2. SAW CUT PAVEMENT , REMOVE FRAME AND COVER, AND EXCAVATE TO THE LIMITS SHOWN DOWN TO THE TOP OF THE PRECAST CONE OR BARREL SLAB.
3. PREPARE SURFACE AND INSTALL RISERS ACCORDING TO MANUFACTURER'S INSTRUCTIONS. USE LARGEST SIZES POSSIBLE TO MINIMIZE THE NUMBER OF RISERS IN THE STACK. USE BEVELED RISER RINGS WHERE NEEDED TO MATCH PAVEMENT. CONCRETE RING MAY BE USED FOR FIRST COURSE TO BRING TO WITHIN 12" OF GROUND SURFACE.
4. REINSTALL FRAME AND COVER NO MORE THAN 1/4" BELOW PAVEMENT SURFACE.
5. IN UNPAVED AREAS, INSTALL FRAME AND COVER 1" ABOVE FINAL GRADE, OR AS DIRECTED BY ENGINEER, GRADE TO DRAIN AWAY FROM MANHOLE.
6. BACKFILL AS SHOWN, COMPACT IN NO MORE THAN 6" LIFTS. USE 6" MDOT 703.06 TYPE 3 GRAVEL.
7. REPAVE EXCAVATION, MATCH EXISTING PAVEMENT, MAXIMUM PAVEMENT DEPTH OF 7". USE MINIMUM OF 2 LAYERS PAVEMENT. USE MDOT 403.208 (12.5MM NOMINAL MAXIMUM SIZE) HMA.
8. IN UNPAVED AREAS LOAM, SEED, AND MULCH.
9. WRAP EXTERIOR OF MANHOLE RISERS WITH 4 LAYERS OF 6 MIL POLY-WRAP.

WASTEWATER MANHOLE REHABILITATION PROJECT
CONSTRUCTION DETAILS
NO SCALE



VASSALBORO SANITARY DISTRICT

MAY, 2022

WATER QUALITY AND COMPLIANCE SERVICES, INC



SHEET 4 OF 4