

AMENDMENT NO. 2
TO
AGREEMENT FOR ENGINEERING SERVICES
BY AND BETWEEN

TOWN OF LEDYARD, CONNECTICUT
AND
WESTON & SAMPSON ENGINEERS, INC.
FOR

LEDYARD CENTER SEWER (BID #2021-03)

The AGREEMENT for Ledyard Center Sewer (Bid #2021-03) made on the April 22, 2021 by and between the Town of Ledyard, Connecticut acting through its Mayor, hereinafter called the OWNER, and Weston & Sampson Engineers, Inc., with offices at 712 Brook Street, Suite 103, Rocky Hill, Connecticut, hereinafter called the ENGINEER is hereby amended in accordance with the provisions of said AGREEMENT.

The engineering services in this task amendment consists of the design of a low-pressure sewer extension from the high school to Pennywise Lane, as requested by the OWNER. This amendment is issued to incorporate the following changes:

ARTICLE 2 - SERVICES OF THE ENGINEER is hereby amended as follows:

Immediately following Article 2.09, add the following new subsections to the contract:

2.10. Wetland Delineation (Sewer to Pennywise)

1. Wetland limits will be identified and flagged for used in determining work within the upland review area areas. Based on preliminary review, there is a large freshwater wetland area adjacent to the Gallop Hill Road near the intersection of Pennywise Lane.
2. Specifically, the freshwater wetlands and watercourses will be delineated, and soil series will be identified for the limits identified above. The wetlands will be identified by Connecticut criteria. USACOE (Army Corps) criteria will be evaluated as well. "Soil Taxonomy" (USDA Handbook 436, Rev 1999), NRCS Web Soil Survey and available maps will be used. Soil borings will be dug with a soil auger to a depth of 2 to 4 feet to conduct this study.
3. A field map showing approximate wetland flag locations will be prepared. A Wetlands Report will not be prepared for this project because construction disturbances will be located within the existing paved roadway.

2.11. Soil Borings (Sewer to Pennywise)

1. None anticipated based on construction of the new low pressure sewer alongside the existing pipe alignment.

2.12. Surveying (Sewer to Pennywise)

Supplement existing planimetric from previous record drawings along Gallup Hill Road.

1. The survey will record accessible utilities and current existing feature conditions. The existing condition survey within the limits identified above will locate the following.
2. Temporary benchmarks will be set at approximately 500 feet intervals on the site and will be included on the plan.
3. Underground utilities with surficial structures (i.e., hydrants, manholes, grates, catch basins, hand holes, valve boxes, utility poles, transformers, and risers) for water, gas, sewer, drainage, electrical, telephone within the survey limits.
4. Measured inverts and pipe sizes will be recorded for storm and sanitary structures where possible.
5. Field survey presumptions regarding the scope and fee proposed herein include:
 - a. ENGINEER reserves the right to negotiate extra work fees for effort that may be required to confirm specifics about boundary, easements, rights-of-way, elevation, or sub surface utilities that may arise from the client or client's review of the initial map produced under the initial defined scope of services.
 - b. Real-time kinetic (RTK) GPS methods will be available to establish field control.
 - c. Traffic control (if necessary) to obtain invert data will be provided by the Town of Ledyard
 - d. Water, storm, and sanitary as-built mapping will be provided by OWNER.

2.13. Sewer Route Design (Sewer to Pennywise)

1. The design will extend a 5-inch HDPE low pressure sewer along Gallup Hill Road (adjacent to the existing sewer pipe) from the high school to gravity sewers on Pennywise Lane. The existing clean-out manholes will be replaced to accommodate the new pipe. Design will be incorporated onto the record drawings of the high school force main extension. Construction documents will be prepared as a change order to the multi-use pathway construction project.
2. Field Visit – Conduct a field visit to inspect the condition of the existing site features, review project area and potential utility conflicts, and prepare a photo log (as needed).
3. Existing Data – Review existing data provided by the municipality and the utilities, including street line mapping, utility locations, construction and as-built plans of the roadway and existing sewer force main.
4. Odor Control – Design an odor control system to be installed in the existing water booster pump building across from Pennywise Lane which is currently abandoned. A 120 volt power source is anticipated to be readily available within the building.
5. Preliminary Design Plans – Prepare preliminary plans to consist of:
 - a. Cover Sheet (1 sheet)
 - b. Sedimentation and Erosion Control Plan (1 sheet)
 - c. Skid-Mounted Odor Control System (1 sheet)
 - d. Plan and Profiles (2 sheets)

6. Preliminary Design Submission – Assemble and submit all the plans and estimates generated during the Preliminary Design phase.
7. Resolve Preliminary Design Comments – Attend one preliminary design review meeting to discuss comments and resolve any questions or differences of opinions that arise. Identify permit requirements and make initial contact.
8. Coordination For Property Rights – None anticipated
9. Drainage Analysis – None anticipated.
10. Public Information Meeting – None anticipated.
11. Quantity Estimate and Cost Estimate – Prepare an estimate of the quantities of all major items of construction. Develop an estimate of probable construction cost for the project based on the estimated quantities and unit prices.
12. Technical Specifications – Reuse existing technical specifications that have been incorporated into the multiuse pathway construction project. A technical specification will be prepared for the odor control system.
13. Final Design for Review – Assemble and submit the drawings, estimate, and technical specifications generated during final design.
14. Final Submission – Package and submit certified plans, estimate, and technical specifications to the for administrative review.
15. CTDOT District Coordination – None anticipated.
- 2.14. Wetland Crossing Design (Sewer to Pennywise)
 1. Project construction within wetlands not anticipated based on Town’s new pipe alignment.
- 2.15. Groton Utility Review (Sewer to Pennywise)
 1. Submit progress design plans to utilities for review. Schedule and facilitate up to three on-site or virtual utility meetings.
 2. Identify potential conflicts and proposed test pit locations, if any, to be conducted by the contractor during construction.
 3. Address detailed comments including coordination meetings with the utility, further field investigations, redesign efforts, and revisions to contract documents. This budget does not include procuring excavation services for test pits at water main & hydrant lateral crossings.
- 2.16. Permitting (Sewer to Pennywise)
 1. Prepare and submit local inland wetland permit and prepare demonstration material and present project at up to two in-person commission meetings to present the project. The proposed pipe alignment along Gallop Hill Road (under the existing paved roadway) to Pennywise will be within the upland review are of adjacent wetlands.
 2. Coordinate with CTDEEP Wildlife. Prepare and provide to CTDEEP to review endangered species within the project site. Correspondence with CTDEEP to include recommendations. This project does not appear to be located within an area of endangered species as of February 2024.
 3. Town/State Wetland Application Fees would be paid for directly by the Town.

ARTICLE 4 - TIME OF PROJECT is hereby amended as follows:

Append Article 4.1 to add the following:

The ENGINEER agrees to start the work of Task 2.10 thru 2.16 within 14 calendar days of authorization and complete the work within 120 calendar days thereafter (weather permitting). It is understood that the Town would like the contractor of the Multi-Use Pathway (MUP) to construct this low pressure sewer extension before the MUP project is completed.

ARTICLE 5 - PAYMENTS TO THE ENGINEER is hereby amended as follows:

A. Replace Table 5.1 with the following new Table 5.1:

Table 5.1			
TASK	DESCRIPTION	FEE TYPE	FEE
2.01	High School Presser Sewer Capacity	Lump Sum	\$6,700
2.02	Ledyard Town Center Planning Report	Lump Sum	\$21,000
2.03	Multi-Use Walking Path Design Change	Lump Sum	\$6,800
2.04	Geotechnical Rock Investigation	Lump Sum	\$37,100
2.05	Supplemental Survey at High School	Lump Sum	\$10,600
2.06	Investigate Route for Phase 2 Sewer	Lump Sum	\$8,800
2.07	Retaining Wall Design for Sewer Alignment	Lump Sum	\$48,300
2.08	Coordination for Property Rights	Lump Sum	\$4,400
2.09	Coordination with Utilities	Lump Sum	\$3,700
2.10	Wetland Delineation (Sewer to Pennywise)	Lump Sum	\$17,200
2.11	Soil Borings (Sewer to Pennywise)	Lump Sum	\$0
2.12	Surveying (Sewer to Pennywise)	Lump Sum	\$28,000
2.13	Sewer Route Design (Sewer to Pennywise)	Lump Sum	\$41,700
2.14	Wetland Crossing Design (Sewer to Pennywise)	Lump Sum	\$0
2.15	Groton Utility Review (Sewer to Pennywise)	Hourly	\$22,300
2.16	Permitting (Sewer to Pennywise)	Hourly	\$12,900
		TOTAL FEE:	\$ 269,500

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IN WITNESS WHEREOF, the parties hereto have executed this AMENDMENT NO. 2
this 23th day of April, 2024.

ACCEPTED FOR:

TOWN OF LEDYARD, CT

WESTON & SAMPSON ENGINEERS, INC.

By:

By:

Signature



Signature

Printed Name

Robert Tedeschi, P.E. – Associate

Printed Name

Date

4/23/2024

Date