

**Action Requested/Required:**

- ☐ Vote/Action Requested
☒ Discussion or Presentation Only
☐ Public Hearing
Report Date: _____
Hearing Date: _____
Voting Date: _____

Department: Community Development**Presenter(s) & Title:** Bethany Watson

City Engineer

Agenda Item Title:

Discussion on Ridge Pine Elevated Tank and Booster Pump Station Proposal for Addendum No. 1 to Task Order No. 7 from Black & Veatch in the amount of \$142,625.00.

Summary:

In May 2023, BV provided a Task Order proposal for the scope of services and cost proposal for providing preliminary engineering and design, detailed design, permitting, and construction administrative services for the Ridge Pine Elevated Tank and Booster Pump Station project. The scope of services was distributed by task and a cost proposal was developed based on the best information available at the time of the proposal development. While completing the tasks related to the detailed design, several changes were identified. The BV team has been managing these changes and trying to complete the overall task order within the original budget, however as there are additional services it is apparent that the impact of these changes in scope need to be considered to ensure adequate funds to complete the project. BV has provided the additional supplemental services that were not included in the original scope of work such as Project Administration and Management, Coordination with Landscape Architect, Updated Preliminary Design, and Updated Detailed Design.

Budget Implications:Budgeted? ☒ Yes ☐ No ☐ N/ATotal Cost of Project: \$ 142,625.00 Check if Estimated ☐Fund Source: General Fund ☐ Water & Sewer ☒ Sales Tax ☐ Other: _____**Staff Recommendations:**

Staff recommends approval of Ridge Pine Elevated Tank and Booster Pump Station Proposal for Addendum No. 1 from Black & Veatch in the amount of \$142,625.00

Reviews:Has this been reviewed by Management and Legal Counsel, if required? ☐ Yes ☐ No**Attachments:**

Ridge Pine Elevated Tank and Booster Pump Station Proposal for Addendum No. 1
Addendum 1

THIS SERVES AS A SUPPLEMENTAL AGREEMENT made as of _____, between the **City of Canton, Georgia, (OWNER)** and **Black & Veatch Corporation, (Consultant)**.

Owner and **Consultant** have previously executed a Professional Services Agreement dated December 20, 2018 and amended February 3, 2022, that defines general terms under which **Consultant** will furnish General Consulting Engineering Services and Project Engineering Services to **Owner**. **Owner** now wishes to engage **Consultant** to provide services in connection with the Project known as Task Order No. 7 Addendum 1 Supplemental Services for Ridge Pine Elevated Tank and Booster Pump Station. The Scope of Services is defined in Attachment A.

The fee for these services will be a Time and Expense Amount as outlined in Exhibit A of the Professional Services Agreement. Payments will be made monthly in accordance with the number of hours worked by the personnel of **the Consultant**. The amount will not exceed amount of One Hundred Forty Two Thousand Six Hundred Twenty Five Dollars (\$142,625.00).

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement as of the day and year first above written.

Owner:

City of Canton

Bill Grant

Mayor
Title

Signature

Attest:

Consultant:

Black & Veatch Corporation

William J. Wells
By (Typed Name)

Title

Signature

Attest:

Approved as to form

Robert M. Dyer
City of Canton
Attorney

ATTACHMENT A

PROPOSAL FOR

**TASK ORDER NO. 7:
RIDGE PINE ELEVATED
TANK AND BOOSTER
PUMP STATION
(ADDENDUM 1)**

PREPARED FOR

CANTON

City of Canton

5 NOVEMBER 2024



BLACK & VEATCH

Exhibit A Supplementary Services

Project Purpose

Under Task Order No.7, executed on June 15, 2023, Black & Veatch (BV) has been designing for the City of Canton a water system improvement project which includes:

- Demolition and removal of the existing Ridge Pine Booster Pump Station, Ground Storage Tank and Elevated Storage Tank.
- Construction of a new 1.5 million gallon (MG) elevated water storage tank at the new City park with current ground elevation approximately 1142-ft, desired TWL of 1292 ft, and low water level at approximately 1273 ft.
- 12-inch waterline connection of the proposed water tank to existing waterline located on along Marietta Highway, with an altitude valve and valve vault.
- Construction of either a new booster pump station at the base of the proposed elevated tank or upgrade the K-Mart Booster Pump Station.
- Develop a concept to connect the two separate 1292 pressure zones.

The goal of the proposed upgrades is to provide improved storage in the 1292 pressure zone, improve system reliability and decommission and demolish obsolete infrastructure.

As part of this project, BV's original scope of services included the following professional services: project administration and management, surveying and geotechnical services, water system modeling, preliminary design, detailed design, permitting, bidding assistance, and limited construction administration services.

BV is requesting approval of various supplementary services related to the design of the project that were not anticipated in the original scope of services.

Supplementary Scope of Services

In May 2023, BV provided a Task Order proposal for the scope of services and cost proposal for providing preliminary engineering and design, detailed design, permitting, and construction administrative services for the Ridge Pine Elevated Tank and Booster Pump Station project. The scope of services was distributed by task and a cost proposal was developed based on the best information available at the time of the proposal development.

While completing the tasks related to the detailed design, several changes were identified. The BV team has been managing these changes and trying to complete the overall task order within the original budget, however as there are additional services it is apparent that the impact of these changes in scope need to be considered to ensure adequate funds to complete the project.

BV has provided the additional supplemental services that were not included in the original scope of work:

1. **Project Administration and Management:** The original scope of services assumed that the 100% design would be submitted by February 2024. Due to various supplemental work, the 100% design is now scheduled for February 2025. Some of the impact in the

schedule was due to a four month delay before surveying information was available from Gunnin Land Surveying (Gunnin) who prepared the topographic survey of the proposed South Fulton Park for the City's landscape architect, TSW. BV had to arrange for additional survey by Gunnin to obtain topography and utilities within and outside of the right of way of roadway from Marietta Highway to the existing ground storage tank on Ridge Pine Drive. The design schedule has also been impacted due to the need to coordinate with TSW, as described below.

2. **Coordination with Landscape Architect:** The original scope of services did not consider that BV would need to coordinate with the TSW, who is preparing the design of the South Canton Park. As the new elevated tank will be in the northwest corner of the southwest corner of the park, BV and TSW have had to coordinate their respective designs including the determining the available area for the elevated tank, design responsibilities for different portions of the tank site (e.g., tank site retaining wall, access driveway) site grading, stormwater drainage, fencing, yard piping and other design constraints. The coordination has needed several Teams meetings and correspondence to convey CAD drawings.
3. **Preliminary Design:** BV's original design scope was to design either a new booster pump station at the base of the proposed elevated tank or upgrade the K-Mart Booster Pump Station. BV had assumed that the new booster pump station would comprise three pumps housed separately inside a prefabricated building similar to the Laurel Canyon Booster Pump Station and the (under construction) Brown Industrial Booster Pump Station. During the preliminary design it was determined the pumps and pipework would be housed instead inside the column of the composite elevated tank. Furthermore, it was determined from modeling that the K-Mart Booster Pump Station can be decommissioned and demolished. These revised concepts required additional design that was not originally contemplated. Regarding the electrical design, it was agreed to add decorative lighting for the elevated tank.
4. **Detailed Design:** During preparation of the 70% Design, BV sought input from various elevated tank vendors to obtain their constructability reviews and feedback due to the existing site condition. One of the recommendations of one of the tank vendors was to move the tank location approximately 35 feet to the west. This change will facilitate tank construction and result in potential construction cost savings of around \$0.5 million. BV will need to revise the civil, mechanical, and electrical drawings to show not just the new location of the tank but also revisions to the yard piping and re-orientation of the pumps and pipework inside the column.

Exhibit B

Estimated Labor Hours and Associated Fee

The following estimate of labor and fee based on billing rates is responsive to the Supplemental Services presented above. The Scope of Services and Associated Fee table shown below are authorized upon execution of this task order. If additional effort is requested, B&V will notify the City and will not proceed without written authorization (email or letter) by the City Representative.



Ridge Pine Elevated Tank and Booster Pump Station (Supplementary Services)

City of Canton

Project Task/Level of Effort Table

Task Description		Senior Project Manager	Chief Engineer	Principal Engineer	Senior Engineer	Project Engineer	Staff Engineer	Senior Designer	Engineering Technician	Project Control Manager	Senior Accountant	Accountant	Administrative Assistant	Total	Total Subs	Total Task
		Hours	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
#	Billing Rate	\$305	\$335	\$235	\$210	\$145	\$130	\$115	\$100	\$165	\$125	\$120	\$105			
1.0	Project Administration and Management	50								14	26	14	18	122		\$24,380
2.0	Coordination with Landscape Architect	5			25	39								69		\$12,430
3.0	Preliminary Design	5	5		41	99	17							167		\$28,375
4.0	Detailed Design	14	10	30	82	186	26		42					390	\$11,000	\$77,440
	Project Total	74	15	30	148	324	43	0	42	14	26	14	18	748	\$11,000	\$142,625

Exhibit C**Project Milestones**

The updated Project Milestones are presented in the table below. All activities are complete except for construction that is anticipated to commence next month.

ID	Task Name	Duration (Calendar Days)	Start	Finish
1	Preliminary Design	287	Tuesday, August 1, 2023	Tuesday, May 14, 2024
2	Kick-off Meeting	0	Tuesday, August 1, 2023	Tuesday, August 1, 2023
3	Hydraulic Modeling Tech Memo	38	Monday, August 7, 2023	Thursday, September 14, 2023
4	Site & Utility Survey	22	Tuesday, January 2, 2024	Wednesday, January 24, 2024
5	Geotechnical Report	14	Monday, January 29, 2024	Monday, February 12, 2024
6	Design Development Report	91	Tuesday, February 13, 2024	Tuesday, May 14, 2024
7	Detailed Design	218	Thursday, May 16, 2024	Friday, December 20, 2024
8	Completion of 70% Design	88	Thursday, May 16, 2024	Monday, August 12, 2024
9	70% QC Review	4	Thursday, August 15, 2024	Monday, August 19, 2024
10	Incorporation of 70% QC Comments	4	Thursday, August 22, 2024	Monday, August 26, 2024
11	Owner Review of 70% Design	4	Thursday, August 29, 2024	Monday, September 2, 2024
12	Completion of 100%	81	Thursday, September 5, 2024	Monday, November 25, 2024
13	100% QC Review	8	Thursday, November 28, 2024	Friday, December 6, 2024
14	Incorporation of 100% QC Comments	4	Monday, December 9, 2024	Friday, December 13, 2024
15	Owner Review of 100% Design	4	Monday, December 16, 2024	Friday, December 20, 2024
16	Permitting	21	Monday, January 6, 2025	Monday, January 27, 2025
17	Prepare Permit Applications	7	Monday, January 6, 2025	Monday, January 13, 2025
18	Land Disturbance Permitting	14	Monday, January 13, 2025	Monday, January 27, 2025
19	Utility Permitting (GUPS)	14	Monday, January 13, 2025	Monday, January 27, 2025
20	Construction	610	Saturday, February 1, 2025	Sunday, October 4, 2026
21	Advertise for Construction	33	Saturday, February 1, 2025	Thursday, March 6, 2025
22	Receive Bids	1	Thursday, March 6, 2025	Friday, March 7, 2025
23	Award Project	4	Monday, March 10, 2025	Friday, March 14, 2025
24	Construction NTP	24	Friday, March 14, 2025	Monday, April 7, 2025
25	Construction	545	Monday, April 7, 2025	Sunday, October 4, 2026