



Legislation Details (With Text)

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Title: To authorize the Director of Public Utilities to modify an existing engineering agreement with Brown and Caldwell for the Southerly Waste Water Treatment Plant Digestion Process Expansion project; to authorize an expenditure of up to \$517,420.00 from the Sanitary Sewers General Obligation (G.O.) Bond Fund; and to amend the 2019 Capital Improvement Budget. (\$517,420.00)

Sponsors:

Indexes:

Code sections:

Attachments: 1. Ord. 1883-2020 Funding Template, 2. ORD. 1883-2020 Utilization Form

Date	Ver.	Action By	Action	Result
9/24/2020	1	CITY CLERK	Attest	
9/23/2020	1	MAYOR	Signed	
9/21/2020	1	COUNCIL PRESIDENT	Signed	
9/21/2020	1	Columbus City Council	Approved	Pass
9/14/2020	1	Columbus City Council	Read for the First Time	

1. BACKGROUND: This legislation authorizes the Director of Public Utilities to modify (Mod #2) an existing engineering agreement with Brown and Caldwell for Professional Engineering Services (Design Professional, or “DP” services) for the Southerly Waste Water Treatment Plant (SWWTP) Digestion Process Expansion project, CIP# 650353-100003. This contract will provide Preliminary Design Services (Step 1), Detailed Design and Bidding Services (Step 2), and Services During Construction (Step 3) for this project. The initial phase of this contract provided Professional Engineering Services for Preliminary Design (Step 1) and Professional Engineering Services for Detailed Design and Bidding Services (Step 2).

This modification (Modification No. 2) will address acid gas treatment. This modification will evaluate acid gas treatment options and revise the original Detailed Design Memorandum from Step 1 through a technical memorandum. Once the treatment option is selected, the Engineer will begin detailed design of the acid gas treatment system and additional gas flow meters.

A future renewal will be requested for Step 3, Engineering Services During Construction, which will include technical project representation (TPR) duties, construction-phase engineering, start-up and commissioning assistance, and record documentation.

Planning Area: 99 - City wide

1.1 Amount of additional funds to be expended: **\$571,420.00**

ORIGINAL CONTRACT (Step 1 and 2, Preliminary Design & Detailed Design)

	\$2,461,829.00 (PO013284)
MODIFICATION NO. 1	\$397,198.00 (PO188228)
MODIFICATION NO. 2 (current request)	\$517,420.00
TOTAL ESTIMATED CONTRACT	\$3,376,447.00

1.2 Reasons additional goods/services could not be foreseen:

This is an unplanned modification. During the course of detailed design, it the Department of Public Utilities Regulatory Compliance Section became aware that the flow meters for each digester were providing incorrect readings due to backflow between the methane digesters and acid digesters. Because if this back feed, the exact amount of produced digester gas could not be accurately measured. In addition to the metering issue, methane digester gas was back pressuring the acid phase digesters causing seal leaks. It was determined that the best solution would be to add an additional flow meter on the methane gas system and to separate the acid gas from the methane gas and treat the acid gas separately.

1.3 Reasons other procurement processes are not used:

This contract cannot be bid out as it would take an additional 3-6 months to begin work on a compliance issue. We have notified the EPA that this project is addressing the gas system issues to mitigate any further digester gas release through the APD seals. In addition, the original contract will be performing some work on the digester gas system and this modification will allow for one outage during construction as opposed to several major outages.

1.4 How cost of modification was determined:

The cost of this modification was determined through scope and fee negotiation with the design professional.

2. **EMERGENCY DESIGNATION:** An emergency designation **is not requested** at this time.

3. **CONTRACT COMPLIANCE No.:** 94-1446346 | MAJ | Exp. 8/20/2021 | Vendor #: 010815

4. **ENVIRONMENTAL IMPACT:** SWWTP Digestion Process Expansion project will increase the beneficial re-use of biosolids in the liquid land application and deep row hybrid popular (DRHP) programs by providing more anaerobically-digested Class B biosolids. The primary goal of this project is to provide sufficient expanded anaerobic digestion facilities and all necessary associated piping and pumping capacity to successfully accommodate the additional solids produced by the Chemically Enhanced Primary Treatment (CEPT) process and the additional solids loadings to the SWWTP resulting from the anticipated growth of the City of Columbus.

5. **FISCAL IMPACT:** This ordinance authorizes an expenditure of up to \$517,420.00 from the Sanitary Sewers G.O. Bond Fund 6109 and amends the 2019 Capital Improvement Budget.

To authorize the Director of Public Utilities to modify an existing engineering agreement with Brown and Caldwell for the Southerly Waste Water Treatment Plant Digestion Process Expansion project; to authorize an expenditure of up to \$517,420.00 from the Sanitary Sewers General Obligation (G.O.) Bond Fund; and to amend the 2019 Capital Improvement Budget. (\$517,420.00)

WHEREAS, the original contract number PO013284 was authorized by Ordinance No. Ord 0846-2016 passed by the Columbus City Council on May 9, 2016; and

WHEREAS, Modification #1 contract number PO188228 was authorized by Ordinance 1743-2019 passed by Columbus City Council on July 22, 2029; and

WHEREAS, this modification is for a redesign of the original SWWTP Digester Process Expansion; and

WHEREAS, it is necessary to authorize an expenditure of up to \$517,420.00 from the Sanitary Sewer General Obligation Bond Fund 6109; and

WHEREAS, it is necessary to amend the 2019 Capital Improvement Budget to align the authority with the expenditure; and

WHEREAS, it has become necessary in the usual daily operation of the Department of Public Utilities, Division of Sewerage and Drainage, to authorize the Director to modify (Mod #2) an existing engineering agreement with Brown and Caldwell for the SWWTP Digestion Process Expansion project, for the preservation of the public health, peace, property and safety; **now, therefore**

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF COLUMBUS:

SECTION 1. That the Director of Public Utilities is hereby authorized to modify (Mod #2) an existing engineering agreement with Brown and Caldwell 4700 Lakehurst Court, Columbus, Ohio 43016, for the SWWTP Digestion Process Expansion project in accordance with the terms and conditions as shown in the agreement on file in the office of the Division of Sewerage and Drainage.

SECTION 2. That a total expenditure of up to \$517,420.00 or so much thereof as may be needed, is hereby authorized per the accounting codes in the attachment to this ordinance.

SECTION 3. That the 2019 Capital Improvement Budget is amended as follows:

<u>Fund</u>	<u>CIP#</u>	<u>Project Name</u>	<u>Current Authority</u>	<u>Revised Authority</u>	<u>Net Change</u>
6109	650353-100004	SWWTP Cogeneration Facility	\$661,000	\$269,746	- \$391,254
6109	650353-100003	SWWTP Digestion Process Expansion	\$126,166	\$517,420	+\$391,254

SECTION 4. That the said engineering company, Brown and Caldwell, shall perform the work to the satisfaction of the Director of Public Utilities and the Administrator of the Division of Sewerage and Drainage.

SECTION 5. That the City Auditor is hereby authorized to transfer any unencumbered balance in the project account to the unallocated balance within the same fund upon receipt of certification by the Director of the Department administering said project that the project has been completed and the monies are no longer required for said project; except that no transfer shall be made from a project by monies from more than one source.

SECTION 6. That the City Auditor is authorized to establish proper project accounting numbers as appropriate.

SECTION 7. That the City Auditor is authorized to make any accounting changes to revise the funding source for all contracts or contract modifications associated with this ordinance.

SECTION 8. That the funds necessary to carry out the purpose of this ordinance are hereby deemed appropriated, and the City Auditor shall establish such accounting codes as necessary.

SECTION 9. That this ordinance shall take effect and be in force from and after the earliest period allowed by law.