



Legislation Details (With Text)

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Title: To authorize the Director of Public Utilities to modify an existing engineering agreement with EmNet, LLC for the Real Time Control - Sewer System Optimization project; to transfer within and expend \$519,832.41 from the Sanitary Sewer General Obligation (G.O.) Bond Fund; and to amend the 2018 Capital Improvements Budget. (\$519,832.41)

Sponsors:

Indexes:

Code sections:

Attachments: 1. Ord 3201-2018 Dax Financial Form 650009-2, 2. Ord 3201-2018 17. Director's Legislation Information Sheet (2-8-2018), 3. Ord 3201-2018 5. New Utilization Form

Date	Ver.	Action By	Action	Result
12/13/2018	1	ACTING CITY CLERK	Attest	
12/12/2018	1	MAYOR	Signed	
12/10/2018	1	COUNCIL PRESIDENT	Signed	
12/10/2018	1	Columbus City Council	Approved	Pass
12/3/2018	1	Columbus City Council	Read for the First Time	

1. BACKGROUND: This legislation authorizes the Director of Public Utilities to modify (Mod #1) an existing engineering agreement with EmNet, LLC for the Real Time Control - Sewer System Optimization, CIP 650009-100002. The goal of RTC (real time control) is to reduce overflows, plant bypasses, and DOSD operational costs. The study identified areas within the collection system that would benefit from RTC, and those that would not. Operational constraints and existing modeling was studied and used to propose the initial RTC implementation plan. This contract modification will add new sensors to the collection system, create visual displays of live data, and demonstrate the live flow conditions of the collection system. Then a RTC dashboard will be created to show the predictive flow conditions for a select portion of the sewer system. A future renewal is planned for expansion of the coverage area and the duration of the predictions. The planning area is the entire service area.

1.1 Amount of additional funds to be expended: \$519,832.41

Original Contract	\$ 741,036.22
Modification 1	\$ 519,832.41
CONTRACT TOTAL	\$1,260,868.63

1.2 Reasons additional goods/services could not be foreseen:

It was the original intent of this contract to include modifications. However, due to the complexity of City's collection system and ongoing capital improvements, the City was unable to estimate the timing of these modifications, the effort involved, and the associated cost.

After the study was concluded, the City is now able to anticipate the scope of work and provide an estimated cost. There is a plan moving forward to implement RTC in a stepwise manner. This contract will have 1 modification and 1 future renewal. Additional expansion and development is warranted after the modification and renewal,

therefore, a new RFP will be issued at that time.

1.3 Reasons other procurement processes are not used:

The current consulting firm has spent significant time and resources familiarizing themselves with the City's sewer system, hydraulic models, and operational constraints. They have put together the plan for how they will implement the RTC technologies. There would be duplication of these efforts if it were to be bid out at this time. Bidding the project again at this time, would slow the progress and delay RTC implementation.

1.4 How cost of modification was determined:

The cost was determined by negotiations between EmNet and DOSD

2. PROJECT TIMELINE: The original agreement passed council in fourth quarter 2015. NTP was issued for first quarter 2016. The first modification will occur 4th quarter 2018, followed by one renewal in 2019. It is anticipated that the work should be complete by the end of 2020.

3. CONTRACT COMPLIANCE NO.: 20-1118177 | MAJ | EXP 11/02/2020 | 001012

4. EMERGENCY DESIGNATION: Emergency designation **is not** requested.

5. ECONOMIC IMPACT: Real time control is expected to optimize operations of the City's wastewater treatment plants by maximizing sewer storage and conveyance, maximizing treatment, and reducing overflows. Reduction of overflow will have positive environmental benefits to receiving streams and public health.

6. FISCAL IMPACT: This ordinance authorizes the transfer within and the expenditure of \$519,832.41 from the Sanitary Sewer General Obligation (G.O.) Bond Fund, Fund 6109 and amends the 2018 Capital Improvements Budget to create sufficient budget authority.

To authorize the Director of Public Utilities to modify an existing engineering agreement with EmNet, LLC for the Real Time Control - Sewer System Optimization project; to transfer within and expend \$519,832.41 from the Sanitary Sewer General Obligation (G.O.) Bond Fund; and to amend the 2018 Capital Improvements Budget. (\$519,832.41)

WHEREAS, it is necessary to modify (Mod #1) an existing engineering agreement with EmNet, LLC for the Real Time Control - Sewer System Optimization, CIP 650009-100002; and

WHEREAS, the goal of RTC (real time control) is to reduce overflows, plant bypasses, and DOSD operational costs; and

WHEREAS, the original contract number, PO003393, with EmNet, LLC was authorized by Ordinance No. 2882-2015, passed by the Columbus City Council on December 14, 2015; executed by the Director on March 9, 2016, approved by the City Attorney on March 16, 2016; certified by the City Auditor March 17, 2016; and

WHEREAS, it is necessary to authorize the transfer within and the expenditure of \$519,832.41 from the Sanitary Sewer General Obligation (G.O.) Bond Fund, Fund 6109; and

WHEREAS, it is necessary to amend the 2018 Capital Improvements Budget for purposes of creating and providing sufficient budget authority for the aforementioned expenditures; 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 of Public Utilities to modify (Mod #1) an existing engineering agreement with EmNet, LLC for the Real Time Control - Sewer System Optimization project, CIP 650009-100002 for the preservation of the public health, peace, property, safety and welfare; **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 #1) an existing engineering agreement with EmNet, LLC, 121 S. Niles Ave., Suite 22, South Bend, IN 46617 for the Real Time Control - Sewer System Optimization 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 the City Auditor is hereby authorized to transfer \$519,832.41 within the Sanitary Sewer General Obligation Bond Fund 6109 per the account codes in the attachment to this ordinance.

SECTION 3. That the 2018 Capital Improvements Budget is hereby amended as follows:

Fund No. | Project No. | Project Name | Current | Revised | (Change)

6109 | 650113-100000 | Gen. Eng. Svcs. Contract | \$1,600,000 | \$1,080,168 | (-\$519,833)

6109 | 650009-100002 | Real Time Control - Sewer System Optimization | \$0 | \$519,833 | (+\$519,833)

SECTION 4. That the Director of Public Utilities is hereby authorized to expend up to \$519,832.41 for the Real Time Control - Sewer System Optimization Project per the accounting codes detailed in the attachment to this ordinance.

SECTION 5. That the said firm, EmNet, LLC, shall perform the work to the satisfaction of the Director of Public Utilities and the Administrator of the Division of Sewerage and Drainage.

SECTION 6. 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 7. That the City Auditor is authorized to establish proper project accounting numbers as appropriate.

SECTION 8. 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 9. 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 10. That this ordinance shall take effect and be in force from and after the earliest period allowed by law.