

Ord No.:

Information to be included in all Legislation Modifying* a Contract:**

1. **The names, contract compliance no. & expiration date, location by City/State and status of all companies (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR) submitting a competitive bid or submitting an RFP or RFSQ.**

<u>Name</u>	<u>C.C. No./Exp. Date</u>		<u>City/State</u>	<u>Status</u>
EmNet	20-1118177	10/31/2016	South Bend, IN	MBR
Tetra Tech	95-4148514	9/30/2016	New Albany, OH	MAJ

2. **What type of bidding process was used (ITB, RFP, RFSQ, Competitive Bid).**

Requests for Proposals (RFP's) were opened on 5/8/2015

3. **List the ranking and order of all bidders.**

1. EmNet, LLC
2. Tetra Tech, Inc.

4. **Complete address, contact name, phone number, and e-mail address for the successful bidder only.**

Elena Rubchinskaya
Tel #: 574.855.1012
Email: erubchinskaya@emnet.net
EmNet, LLC
121 S. Niles Ave. Suite 22
South Bend, IN 46617

5. **A description of work performed to date as part of the contract and a full description of work to be performed during any future phasing of the contract. The planning area should also be listed as well as any street or neighborhood names.**

During the original contract the Engineer conducted a study of the existing sewer system, with the purpose of planning the implementation of a real time control (RTC) strategy. The goal of RTC 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 renewal will expand the RT-DSS developed in Modification No.1. Rainfall data and new flow monitor locations will be used to develop optimized control strategies for dewatering the OARS tunnel and operating CEPT. Historical rainfall data will be added to the RT-DSS screens and a "flight-simulator" will be developed that will allow the operators to simulate operation of the collection system during different rain events using the RT-DSS interface providing modeled recommendations.

This Contract renewal also will provide BLU-X engineering portal for long term continuous data viewing. Sensors that are integrated with SCADA will be shown in the engineering portal in an organized fashion. The engineering portal will also include a map of the location

of rain gauges, level sensors, meters' temperature sensors, and flow monitors currently integrated into the SCADA system or One-Rain system.

No future renewals are planned.

The planning area is 99 (Citywide).

6. An updated contract timeline to contract completion.

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

7. A narrative discussing the economic impact or economic advantages of the project; community outreach or input in the development of the project; and any environmental factors or advantages of the project.

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.

8. A description of any and all modifications to date including the amounts of each modification and the Contract Number associated with any modification to date. (List each modification separately.)

The original contract, PO003393 not to exceed \$741,036.22, financed a study to define the RTC implementation. The first modification of the original contract, PO003393 not to exceed \$519,832.41, financed beginning of the implementation of RTC. This Renewal 1 in amount of no to exceed \$518,273.78 is anticipated to continue the development work.

9. A full description of the work to be performed as part of the proposed contract renewal. (Indicating the work to be a logical extension of the contract is not sufficient explanation.)

This contract renewal will expand the RT-DSS developed in Modification No. Rainfall data and new flow monitor locations will be used to develop optimized control strategies for dewatering the OARS tunnel and operating CEPT. Historical rainfall data will be added to the RT-DSS screens and a "flight-simulator" will be developed that will allow the operators to simulate operation of the collection system during different rain events using the RT-DSS interface providing modeled recommendations.

This Contract renewal also will provide BLU-X engineering portal for long term continuous data viewing. Sensors that are integrated with SCADA will be shown in the engineering portal in an organized fashion. The engineering portal will also include a map of the location of rain gauges, level sensors, meters' temperature sensors, and flow monitors currently integrated into the SCADA system or One-Rain system.

10. If the contract modifications was not anticipated and explained in the original contract legislation a full explanation as to the reasons the work could not have been anticipated is required. (Changed or field conditions is not sufficient explanation. Describe in full the changed conditions that require modifications of the contract scope and amount.)

After the study was concluded, the City is was able to anticipate the scope of work and provide an estimated cost. There was a plan moving forward to implement RTC in a stepwise manner. This contract renewal was anticipated as a part of Modification 1.

11. An explanation of why the work to be performed as part of the contract modifications cannot be bid out. (Indicating the work to be a logical extension of the contract is not sufficient explanation.)

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.

12. A cost summary to include the original contract amount, the cost of each modifications to date (list each modifications separately), the cost of the modification being requested in the legislation, the estimated cost of any future known modifications and a total estimate of the contract cost.

The Renewal amount is \$ 518,273.78. It is anticipated that this contract will have an additional renewal for continued development.

Original Contract (Study, PO003393)	\$741,036.22
Modification No. 1 (Start of Implementation, PO003393)	\$519,832.41
Renewal No. 1 (Continue of Implementation, current)	\$518,273.78

13. An explanation of how the cost of the modifications was determined.

The cost was determined by negotiations between EmNet and DOSD

14. Subconsultant information

See utilization form