



Legislation Text

File #: 17-0331, **Version:** 1

Consider and take action on a resolution authorizing a professional services agreement with ARKK Engineers for the 2017 Sanitary Sewer Rehabilitation Project - Wastewater System Evaluation (WW1201A), in an amount not to exceed \$417,967.94 (Director of Public Works)

Approval of this resolution will authorize a professional services agreement with ARKK Engineers to perform the Wastewater System Evaluation and Flow Monitoring Program as part of the 2017 Sanitary Sewer Rehabilitation Project (WW1201A).

This contract with ARKK Engineers will be the first project of a two-year program that will evaluate dry-weather and wet-weather sanitary sewer flows. This effort includes calibrated in-pipe flow monitoring at strategic locations throughout the collection system with follow-up field testing and investigation to determine which areas are contributing the highest amount of inflow and infiltration. This year's flow monitoring program will encompass the entire City and the field testing and investigation will focus on the east side of the City where the City's historically oldest sanitary sewer infrastructure exists. Phase two of the proposed evaluation will be presented to City Council for consideration of approval in FY 2018 for further field testing and investigation for the west side of the City.

A component of the City's 2017 Water and Wastewater Master Plans Update includes a Wastewater System Analysis which requires integrating updated Flow Monitoring data for the entire City's system into the wastewater collection model. This updated flow data will provide a much higher degree of accuracy to evaluate the influence of inflow and infiltration on the system to identify capacity deficiencies in the wastewater system. Projects that are required to correct capacity deficiencies will be included in the CRF Update Plan.

The information from the flow monitoring will provide data used to determine which areas to target for further field testing and investigation, which will include manhole inspections, smoke testing, dyed water flooding, and closed circuit Television Inspection. Utilizing the information, the City will be able to prioritize future areas that need to be targeted for the Annual Sanitary Sewer Rehabilitation design and construction.

ARKK Engineers was approved as one of the short-listed professional service providers for water and wastewater design services. They have been instrumental in the City's annual program of evaluating and rehabilitating the wastewater system, and have shown experience and knowledge in the methods of utility infrastructure replacement and rehabilitation.

ARKK has submitted a proposal to perform the Wastewater System Evaluation in an amount not to exceed \$417,967.94, which includes the following:

1. Wastewater Flow Monitoring
2. Wastewater Flow Monitoring - Extended Period if Necessary
3. Smoke Testing
4. Dyed water testing
5. Television Inspection
6. Data Analysis and Reporting

Funds for this Wastewater System Evaluation are included in the 2017 Sanitary Sewer Rehabilitation CIP Project (WW1201).

Attachments:

1. Data Sheet
2. Proposed Resolution
3. Exhibit A - Proposed Agreement
4. ARKK Proposal Exhibits
5. CIP Program Sheet

CONTRACT ORIGINATION: Professorial Services Agreement with ARKK Engineering for the 2017 Sanitary Sewer Rehabilitation Project reviewed and approved by City Attorney's Office

FUNDING

{ } NOT APPLICABLE

{X} Funding is available in the amount of \$417,967.94 from 2015 CO Wastewater and 2009 Revenue Bond with \$382,668.45 to be charged to project expense string WW1201A - PLAN DESIG-DESIGN-2015 CO W/WW and \$35,299.49 to be charged to WW1201A-PLAN DESIG-DESIGN- 2009 RB.

{ } Requires Budget Amendment to transfer from Account # _____ to Account # _____