



## AGENDA MEMORANDUM

Action Item for the City Council Meeting of October 20, 2020

**DATE:** October 13, 2020

**TO:** Peter Zanoni, City Manager

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### **Professional Services Contract**

Williams Lift Station's Force Main

### **CAPTION:**

Motion awarding a professional services contract to LNV, Inc., of Corpus Christi, Texas to prepare an Engineering Letter Report that includes an evaluation of the condition of the force main, a preliminary design, and provides repair options, recommendations, and cost estimates for the Williams Lift Station's Force Main in an amount not to exceed \$183,290.00, located in City Council Districts 4 and 5, with funding available from the FY 2021 Wastewater Capital Improvement Program Fund.

### **SUMMARY:**

This motion awards a professional services contract to LNV, Inc., to prepare an Engineering Letter Report for the Williams Lift Station's Force Main. The report prepared by LNV will include options for the force main rehabilitation, preliminary design, and a construction cost estimate. These services are necessary to provide alternatives for improvements to the Williams Lift Stations' force main.

### **BACKGROUND AND FINDINGS:**

Williams Lift Station is the largest lift station in the City of Corpus Christi, and it serves the City's future growth in the southside. The Williams Lift Station's force main was installed in 1983 and is a critical asset in the City's wastewater infrastructure system. The force main is a 36-inch ductile iron pipe which runs from Williams Lift Station to Oso Water Reclamation Plant (WRP) with a total length of 7,850 linear feet.

The force main has experienced several breaks and repairs. The pipe wall thickness has also reduced over the years, making the force main susceptible to breaks and maintenance issues. Additionally, recent inspections of the force main and air release valves showed signs of significant corrosion due to hydrogen sulfide.

Due to the progressing issues with the force main, the City is seeking professional services to evaluate the conditions and propose options on how to proceed. LNV, Inc. will provide a draft and final Engineering Letter Report outlining the replacement recommendations for the existing 36-inch wastewater force main from Williams Lift Station to the Oso WRP. The report will explore options for replacing or rehabilitating the force main, prepare a preliminary design and prepare construction cost estimates for up to three different options.

### **PROJECT TIMELINE:**

If approved by City Council in October 2020, work will begin after the issuance of notice to proceed with approximate completion in February 2021.

### **COMPETITIVE SOLICITATION PROCESS:**

This project was initiated in 2018 but was placed on hold for approximately one year while the Utilities Department evaluated alternatives. LNV, Inc., was selected for the Williams Lift Station's Force Main project in April 2018 under RFQ 2018-01. The Williams Lift Station's Force Main project was one of fifteen projects announced under the Utilities Category of the RFQ. Seven firms were evaluated and LNV, Inc., was one of the highest ranked firms in the Utilities Category. LNV has worked on City projects for twenty years and has completed many projects. Notable projects are Oso WRP Lift Station Rehabilitation, Corpus Christi Water Assessment & Optimization – Chlorine Dioxide, O.N. Stevens Water Treatment Plant High Service Building No. 3, O.N. Stevens Water Treatment Plant Wash Water System Phase 2, Resaca Lift Station Upgrades, and Citywide Lift Station Repairs.

The selection committee consisted of representatives from the Utilities Department and Engineering Services Departments. Firms were ranked based on five factors: 1) experience of the firm, 2) experience of the key personnel with specific experience with multiple Bond street programs and local utilities, 3) project approach and management plan, 4) capacity to meet the project requirements and timelines, and 5) past performance.

### **ALTERNATIVES:**

An alternative is not to award the professional services contract to LNV, Inc., which will delay the necessary replacement/rehabilitation of the Williams Lift Station's force main. The force main will require additional maintenance and could result in a wastewater main break.

### **FISCAL IMPACT:**

The fiscal impact in FY 2021 is an amount of \$183,290.00 for preliminary design phase services for Williams Lift Station's Force Main with funding available from the FY 2021 Wastewater Capital Improvement Program Fund. Based on the Engineer's recommendation a professional services design contract will be presented to Council for approval. The remaining budgeted amount in the FY 2021 CIP under design expenditures will be utilized for the professional services design contract.

**Funding Detail:**

Fund: **Wastewater (Fund 4257)**  
Mission Elem: Wastewater Collection System (042)  
Project: Williams Lift Station Force Main – Line A (Project No. 18085A)  
Please reference in fiscal year 2021 capital budget project 20085A  
Account: Professional Services (530000)  
Activity: 18085-A-4257-EXP  
Amount: \$183,290.00

**RECOMMENDATION:**

Staff recommends award of the professional services contract with LNV, Inc., in an amount of \$183,290.00 for the Williams Lift Station Force Main. The project duration is planned for five months and will provide staff with alternatives for improvements of the Williams Lift Station's force main.

**LIST OF SUPPORTING DOCUMENTS:**

Location & Vicinity Maps  
Contract