



City of Pflugerville

Legislation Details (With Text)

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Title: Approving a professional services supplemental agreement with Plus Six Engineering, LLC in the amount of \$88,527.19 to provide Owner's Representative Services associated with the Central Wastewater Treatment Plant Expansion Phase 2 project.

Sponsors:

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Attachments: 1. PSSA Plus 6 WWTP Expansion Ph 2, 2. WWTP Expansion Phase 2 Project Map, 3. Draft Presentation_2021-0390

Date	Ver.	Action By	Action	Result
4/27/2021	1	City Council	Approved	Pass

Approving a professional services supplemental agreement with Plus Six Engineering, LLC in the amount of \$88,527.19 to provide Owner's Representative Services associated with the Central Wastewater Treatment Plant Expansion Phase 2 project.

This Professional Services Supplemental Agreement (PSSA) #1 is to add design phase services provided by Plus Six Engineering, the Owner's Representative (OR) for Phase 2 of the Central Wastewater Treatment Plant (CWWTP) expansion. Given the significance of the Central Wastewater Treatment Plant Expansion project, an Owner's Representative is retained to assist the City with the successful delivery of the project. Plus Six Engineering serves as the City's representative and liaison between the consultants, contractor, approval agencies and other vendors throughout the project. As the Owner's Representative, in general, Plus Six Engineering has coordinated all project matters during the design phase and construction of Phase 1. The major role for Plus Six Engineering for the proposed Phase 2 Design service, as the Owner's Representative required to advocate for the City interests of quality, timely and cost sensitive design and construction while maintaining professional relationships with all parties. The Owner's Representative will be responsible for aligning the project with the City's goals and objectives and overseeing the delivery of the project at the best and lowest price in the marketplace and highest degree of functionality and quality. However, the Owner's Representative will not replace the design engineer, contractor and other consultants. The Owner's Representative will also not act with legal authority on behalf of the City.

The Owner's Representative will assist the owner and Consultant Engineer with advancing the design, bidding and construction of the expansion of the City's Wastewater Treatment Plant. The Owner's Representative will be tasked with working with a team of City staff and consultant engineers to execute the expansion project on-time and within budget. Plus Six Engineering shall maintain and demonstrate ability to advocate for the City while maintaining professional relationships with the engineers and contractors during the project.

Plus Six Engineering will assist the City in the implementation of the CWWTP project by performing the services as described, as the level of effort will vary from activity to activity and will be the responsibility of the OR to keep City apprised of Project-related activities and level of effort for all Owner Representative Support activities.

Specific work includes but is not limited to:

- Progress Design Reviews & Constructability Reviews;
- Commissioning and Startup Preplanning and Preparation;

The attached agreement includes services for only general project management activities, design reviews and commissioning and startup preplanning and preparation. The scope and fee for construction phased services will be negotiated with Plus Six Engineering, LLC prior to construction and brought forward for City Council consideration.

City staff has negotiated with Plus Six Engineering, LLC to establish a scope, schedule and fee to provide owner representative services associated with the Central Wastewater Treatment Plant Expansion Project. Given the services necessary to complete the Phase 2 project, staff finds value in the qualifications of the project team and proposed project fee. Funding for this agreement will be paid by utility bond funds.

CWWTP expansion of the facility has been developed as a phased implementation plan to allow the capital costs to be spread over several budget years and to defer construction of the solids processing facilities until such time as waste solids production from the expanded/upgraded facility requires the solids handling capacity to be increased. The plant expansion/upgrade project will be implemented in three (3) design and construction phases. Construction of Phase 1 of the CWWTP is anticipated to be substantially complete by the end of 2021 and must be fully operational before Phase 2 construction can begin. The City has already experienced wastewater flows averaging over 75% of the Phase 1 permit capacity of the plans, therefore it is recommended that Phase 2 construction begin as soon as possible.

Phase 1 (currently under construction)

- New treatment plant headworks including: influent lift station, solids screening and grit removal systems and flow splitter box
- Two (2) new Carrousel style aeration tanks designed for biological nutrient removal
- New final clarifier and mixed liquor splitter box
- New effluent filters and ultra-violet (UV) disinfection system
- New non-potable water pump station and disinfection system
- New electrical/motor control and combined laboratory/administration/electrical buildings
- Design of the interim improvements

Phase 2 (immediately following Phase 1)

- Modification of the existing Carrousel units to include new anaerobic/anoxic reactor basins to

enable biological nutrient removal through the existing carrousel units

- Rehabilitation and repair of the existing treatment units, including the carrousel units and clarifiers that will continue to be used in the expanded/upgraded treatment facility

The scope of work for Phase 2 will include final design services to bring the plant capacity to 8.5MGD and fully convert the original treatment trains to achieve biological nutrient removal (BNR), which FNI will develop the final construction documents (plans and specifications) and provide bid phase services for Phase 2 of the

Additional Special Services have also been included:

- A. Secondary Power Feed and electrical Reliability Evaluation - FNI and subconsultant will evaluate alternatives for improving power reliability at the facility, coordinating with Oncor and evaluation of up to four (4) options

Phase 3 (approximately 2027, depending on actual rate of increase in influent flow)

- New waste sludge processing facility, including new sludge thickening and dewatering equipment, and a new solids processing building
- Demolition of abandoned influent lift station and screening structure to clear space needed for the new anaerobic/anoxic basins
- Improvements to existing area lighting by replacing existing fixtures
- Addition of backup power for Biosolids Building (New generator, relocated generator from EB-4, or tie-in to existing generator)
- Addition of secondary power feed provided by Oncor resulting from "Secondary Power Feed and Electrical Reliability" evaluation.
- Other items include associated electrical, controls, and SCADA improvements; yard piping; drainage and paving improvements.

The proposed Phase 2 design phase services anticipated to be included in the CWWTP project and additional utility funds will be made available for FY21. Bid phase, Construction Phase, Start-Up and Post Construction services will be covered under a separate request presented to City Council at a future date.

Prior City Council Action

City Council approved a professional services supplemental agreement with Plus Six Engineering, LLC in the amount of \$3,120,920.00 at the October 22, 2019 City Council meeting to provide owner representative services associated with the Central Wastewater Treatment Plant Expansion Project Phase 1.

City Council approved a professional services agreement with Plus Six Engineering, LLC in the amount of \$331,665.00 at the November 27, 2018 City Council meeting to provide owner representative services associated with the Central Wastewater Treatment Plant Expansion Project Phase 1.

City Council approved the selection of Plus Six Engineering, LLC at the November 13, 2018 City

Council meeting to provide owner representative services associated with the Central Wastewater Treatment Plant Expansion Project Phase 1.

Deadline for City Council Action

Action is requested on April 27, 2021.

Funding Expected: Revenue Expenditure N/A

Budgeted Item: Yes No N/A

*This portion of the Capital Improvement Project is funded by Utility Bond funds.

Amount: \$88,527.19

1295 Form Required? Yes No

Legal Review Required: N/A Required Date Completed: 4-16-2021

Supporting documents attached:

Professional Services Supplemental Agreement

Project Exhibit

Draft Presentation

Recommended Action

Approve action to approve a professional services supplemental agreement with Plus Six Engineering, LLC in the amount of \$88,527.19 to provide Owner's Representative Services associated with the Central Wastewater Treatment Plant Expansion Phase 2 project.