



Memo

15 October 2020
To: Mayor and City Council members
Design contract forthcoming for consolidated streetscape and trail work along Shadow Creek Parkway and Clear Creek. Clay

To: Clay Pearson, City Manager
From: Darcy Gomez, Project Manager
CC: Trent Epperson, Assistant City Manager
Robert D Upton, P.E., Director of Engineering & Project
Clarence Wittwer, Director of Public Works
Skipper Jones, Assistant Director of Capital Projects
Date: October 15, 2020
Re: Shadow Creek Parkway Landscaping, Street Lighting & Sidewalks and Shadow Creek Trail Phase II – Along Clear Creek Relief Ditch & Library Trail

Purpose

This memo provides advanced notice of the proposed engineering design services contract award for the Shadow Creek Parkway Landscaping, Street Lighting & Sidewalks and Shadow Creek Trail Phase II – Along Clear Creek Relief Ditch & Library Trail projects to Gauge Engineering, LLC. The projects will improve safe vehicular travel and alternative transportation for pedestrians travelling from residential areas to commercial, entertainment and educational venues. The Parks and Recreation plan adopted by Council sets forth a philosophy to provide multi-use trails connecting residents to destinations and areas of interest. The trail would connect Shadow Creek Trail via the Clear Creek Relief Channel bridge to the Clear Creek Trail and provide a multi-use path to the future Shadow Creek Library. Both projects were submitted to the TIRZ #2 and were approved to receive funding.

Project Overview

Shadow Creek Parkway is one of the City's major thoroughfares that provides East/West movement from SH288 to FM521. Shadow Creek Parkway is utilized by Pearland residents as a major travel route and providing streetlight enhancements and continuous sidewalks/multi use paths will improve safe travel for vehicles and pedestrians. The recently developed Multi-Modal Master Plan will be utilized to assist in the development of multi-use paths along Shadow Creek Parkway. The Multi-Modal Master Plan encapsulates the Trails Master Plan and Sidewalk Gap Analysis in addressing future and existing needs for the City's trails, sidewalks, bicycle, and way finding needs.

The Shadow Creek Parkway Landscaping, Street Lighting and Sidewalks project is located in the TxDOT right of way and will require partnership with TxDOT. The project will consist of approximately 15,000 LF of 6' and 10' Sidewalks, installation of 5 pedestrian bridges, installation of street lighting (Centerpoint or City maintained), and installation of landscaping improvements along with an irrigation system. Landscaping improvements are required to meet standard City requirements for major thoroughfares. Additionally, Shadow Creek Parkway serves as a gateway between the Lower Kirby Businesses district and the expanding commercial and residential areas.

The Shadow Creek Trail Phase II – Along Clear Creek Relief Ditch & Library Trail will consist of approximately 1,600 LF of 10-foot-wide hike and bike trail along the Clear Creek Relief Channel and include a pedestrian bridge over the channel. The trail will connect the new trail along Clear Creek to the trail within the Shadow Creek Ranch development that is located along the Clear Creek Relief Channel. Additionally, a 500-foot trail will be installed to connect the SCR Library to the SCR Trail.

During the review of these projects for engineering selection, it was determined that due to the close proximity of the work that combining the projects would make the most sense. Both projects are basically the same in nature and comprise of concrete paths, landscaping and lighting. Along with the economies of scale, both from the engineering and construction costs, with one engineering firm for both projects, the City would be able to have design continuity, schedule control, and end up with one contractor for all the work.

Utilizing the City's Qualification Based Selection (QBS) process, staff selected Gauge Engineering, LLC as the most qualified firm to perform professional engineering design services for both of the projects. Gauge principals performed design work for the City while employed by former firm and are certified in the Local Government Project Procedures (LGPP) designation by the Texas Department of Transportation (TxDOT). Their understanding of TxDOT's process is vital, as much of the project will be in TxDOT's right-of-way and there will be significant coordination efforts. Gauge was recently awarded the contract for design of the Clear Creek Trail Project and the Safe Routes to School Project due to their extensive history working with TxDOT and although those projects have just started they are on schedule and working very well with the team. They have shown that they deliver projects successfully on time and within budget. Gauge selected Talley Landscaping and Charles D. Gooden Consulting Engineers as subconsultants for landscaping, waterline and bridge design. Staff is confident that Gauge Engineering, LLC will perform well on this project.

Scope of the Contract

The scope of the proposed work will include Design Phase Services, Bid Phase Services, and Construction Phase Services. The engineering design scope will be prepared in conformance with the City and TxDOT requirements. These criteria require reviews by the City and TxDOT at 30%, 60%, 90% and 95% to obtain final TxDOT approval as work will be in the TxDOT right-of-way. The PS&E (Plans, Specifications & Estimates) services include General Plan Sheets, Project Management/Specs/Agencies & Team Coordination, Quantities and Quality Assurance/ Quality Control for a Lump Sum in the amount of \$172,005.00 with \$414,307.10 for additional services (survey, geotechnical, structural, landscaping), for the Shadow Creek Parkway Landscaping, Street Lighting & Sidewalks and \$47,500.00 for the Shadow Creek Trail Phase with \$83,392.00 for additional services (survey, geotechnical, structural, landscaping bringing the Design Services total to a lump sum amount of \$717,204.00.

Bidding and Construction Phase services will be performed on an hourly not to exceed basis for a sum of \$27,320.00 for the Shadow Creek Parkway Landscaping, Street Lighting & Sidewalks and \$22,070.00 for the Shadow Creek Trail Phase II – Along Clear Creek Relief Ditch & Library Trail Construction and Bidding Phase.

The total contract value of the work for the Shadow Creek Parkway Landscaping, Street Lighting & Sidewalks project is \$613,632.10, which is approximately 8.5% of the current construction estimate for this project. The total contract value of the work for the Shadow Creek Trail Phase II – Along Clear Creek Relief Ditch & Library Trail is \$152,962.00, which is approximately 10% of the current construction estimate for this project. The total engineering fee for both projects is \$766,594.10, which is approximately 8.7% of the current construction estimate.

The project is included in the group of projects that has been approved for cost reimbursement from Pearland Tax Increment Reinvestment Zone (TIRZ) No. 2. The City will provide the funding to complete the project and submit the required documentation for reimbursement funding at the completion of the project. The project will be funded in the interim with Certificates of Obligation.

The proposal from Gauge Engineering, LLC for professional services associated with the design and construction of the Shadow Creek Parkway Landscaping, Street Lighting & Sidewalks (SCPLSS) and Shadow Creek Trail Phase II – Along Clear Creek Relief Ditch & Library Trail project is scheduled to be presented to Council for consideration on the October 26, 2020 agenda.

Budget Info

Shadow Creek Parkway Landscaping, Street Lighting & Sidewalks:

Funding Sources	Series	To Date	Future	Total Budget
General Revenue - Cash				-
Certificates of Obligation				-
Certificates of Obligation	2020B	915,000		915,000
General Obligation Bonds			6,225,000	6,225,000
General Obligation Bonds				-
W/S Revenue Bonds				-
Impact Fee - Debt				-
Other Funding Sources				-
Total Funding Sources		915,000	6,225,000	7,140,000

Expenditures	To Date	Future	Total
PER			-
Land			-
Design		613,632	613,632
Construction		5,225,000	5,225,000
Construction Management/Inspection			-
Construction Materials Testing			-
FF&E			-
Total Expenditures	-	5,838,632	5,838,632

Project Balance/Contingency	1,301,368
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Shadow Creek Trail Phase II:

Funding Sources	Series	To Date	Future	Total Budget
General Revenue - Cash				-
Certificates of Obligation	2020B	250,000		250,000
Certificates of Obligation			1,325,000	1,325,000
General Obligation Bonds				-
General Obligation Bonds				-
W/S Revenue Bonds				-
Impact Fee - Debt				-

Other Funding Sources			-
Total Funding Sources	250,000	1,325,000	1,575,000

Expenditures	To Date	Future	Total
PER			-
Land			-
Design		152,962	152,962
Construction		1,125,000	1,125,000
Construction Management/Inspection			-
Construction Materials Testing			-
FF&E			-
Total Expenditures	-	1,277,962	1,277,962

Project Balance/Contingency			297,038
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Schedule Info

	<i>Base Line</i>	<i>Current</i>
Design Start	September-20	November-20
Bid Start	January-22	
Construction Start	March-22	
Proposed Construction Completion	January-23	

Rain Days: N/A

Recommendation

Staff will recommend Council approve and award the engineering services contract to Gauge Engineering, LLC in the amount of \$613,632.10, for the Shadow Creek Parkway Landscaping, Street Lighting & Sidewalks and \$152,962.00 for the Shadow Creek Trail Phase II – Along Clear Creek Relief Ditch & Library Trail. at the October 26, 2020 Council meeting.



CITY OF PEARLAND

Shadow Creek Parkway Landscaping, Street Lighting, & Sidewalks

- Intersection
- 10-ft Trail Limits
- Ⓣ Pedestrian Bridge
- 6-ft Sidewalk Limits
- 📖 SCR Library
- SCR Trail Connection



1 inch = 1,250 feet
0 1,000 2,000
Feet

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

MAP PREPARED: OCTOBER 2010
CITY OF PEARLAND GIS DEPARTMENT