

Agenda Item Details

Meeting	Apr 14, 2020 - Bryan City Council Second Regular Meeting
Category	6. Statutory (Automatic Approval) Agenda - This agenda consists of items previously approved by Council action such as adoption of items that are part of an approved budget or capital improvement projects, first and only readings of ordinances, interlocal agreements, or action that is required by law or delegated to the City Manager. Items may be removed from the statutory agenda for separate consideration at the request of two Councilmembers.
Subject	G. Approval of the design services contract for the Bristol Street and Esther Boulevard Drainage Improvements Project, City Project No. 425-D2-1910, to Walker Partners for an amount not to exceed \$354,500
Type	Action (Statutory)
Preferred Date	Apr 14, 2020
Absolute Date	Apr 14, 2020
Fiscal Impact	Yes
Dollar Amount	354,500.00
Budgeted	Yes
Budget Source	Capital Reserve Fund as adopted in CIP Resolution
Goals	Quality of Life Public Safety Infrastructure

Summary:

During significant rain events, the project area (i.e., Bristol Street and Esther Boulevard area) experience high levels of streets inundated with surface runoff and a number of properties flood due to water "jumping" curbs and bypassing inlets. The overall intent of the project is to create more passable streets during flood events and reduce/eliminate ponding and jumping of water along streets and conveyance ways.

The scope of work includes, but is not limited to providing design, bidding, and construction phase services associated with:

- Replacement of existing storm sewer collection system to increase capacity all the way to Burton Creek; new storm sewers to be installed within existing street right-of-ways
- Reconstruction of concrete streets where new storm sewer will be installed
- Removal of mini-roundabout installed at Esther Boulevard and Bennett Street
- Resizing and addition of storm inlets to increase capacity to capture runoff

The design storm for the new storm sewers will be a 10-year storm with the 100-year storm being contained within the street right-of-way, which is the current City of Bryan standard for new construction. An overall map of the project area is Attachment 1; Attachment 2 shows the Project Scope graphically; and, Attachment 3 is the proposed design contract, which contains a detailed written scope of services, costs, and schedule for the design.

Walker Partners is employing a partner firm, Torres & Associates, to perform the 2-dimensional (2D) hydraulic modeling for the project that staff believes will be extremely beneficial in communicating the improvements to the residents. The limits of the modeling will focus on the project areas where storm sewer improvements are planned, however, drainage areas adjacent to the study area that drain into the study area will get modeled as part of this effort to understand the overland flow contributing to the study area. Torres & Associates efforts will cost \$57,140 representing 1.52% of the probable construction costs. The 2D modeling provides an accurate representation of surface hydraulics and is useful as a public outreach tool when illustrating pre-project conditions compared to post-project conditions. In past projects where this tool has been utilized, citizen engagement and buy in on proposed solutions have been positive.

The Engineer's Estimate of probable construction costs for this project is \$3,760,937.97 (shown in Attachment 4), which includes a \$325,000 contingency amount. Walker Partners fees are \$297,360 representing 7.91% of the estimated construction cost. The total design cost for the project team is \$354,500.00, representing 9.43% of the construction cost. The total design fee and construction estimate (that includes parts of Skrivanek Drive and Bennett Street), totals \$4,115,437.97, which exceeds the approved budget in the 5 year CIP of \$3,882,000.00. Because of this cost, City staff has looked for ways to cut scope to stay within the approved budget. The Engineer Cost Estimate includes a deductive alternate to eliminate the work proposed along Skrivanek Drive and Bennett Street. This scope was added since the project will be in close proximity to that intersection to try and capture some water that currently runs down Skrivanek Drive and causes flooding problems for residents down Skrivanek Drive. Eliminating that work is estimated at \$245,469, which brings the total cost to \$3,869,969 and within the approved budget. Approving this contract allows the design to be completed for this additional

Skrivanek Drive/Bennett Street work and bid it with this project in hopes of getting quality competitive bids and being able to award the entire scope but having an option to hopefully stay within budget. This alternate bid area is identified on Attachment 2 – Map of Project Scope.

Staff Analysis and Recommendation:

Staff recommends awarding the design services contract for the Bristol Street and Esther Boulevard Drainage Improvements project, City Project No. 425-D2-1910, in response to RFQ 20-007, to Walker Partners for an amount not to exceed \$354,500.00. This project will improve drainage conditions in this residential neighborhood by improving storm sewers, reconstructing streets providing roadway crowns to manage the surface drainage in the roadways, and minimizing future private property damage from flood events up to the 100-year event.

Options:

1. Award the design services contract.
2. Do not award the design services contract and provide direction to staff.

Attachments:

1. Overall project map
2. Project Scope Map
3. Proposed Design Contract with detailed scope, cost and schedule
4. Engineer Estimate of Construction Cost

[Attachment 1 - Location Map.pdf \(1,656 KB\)](#)

[Attachment 2 - Map of Project Scope.pdf \(1,181 KB\)](#)

[Attachment 3 - Walker Partners Design Contract Bristol Esther_WO Ins.pdf \(5,714 KB\)](#)

[Attachment 4 - Engineer Estimate with deductive alternate.pdf \(982 KB\)](#)

[04_14_20_Statutory Item 6G - Bristol Esther Design Contract.pdf \(1,342 KB\)](#)