

Meeting Date (?) 01/12/2016

Subject Matter * (?) Briar Bend Slope Stabilization
This must match rolling agenda entry

Department of Origin * WATER SERVICES

Submitted By * Jayson Barfknecht

Type of Meeting * BCD Special Regular

Classification * Public Hearing Consent Statutory Regular

Ordinance * None First Read Second Read First & Only Read

Strategic Initiative * Public Safety Service
 Economic Development Infrastructure
 Quality of Life

Agenda Item Description * Consider approving a construction contract to Fuqua Construction in the amount not to exceed \$292,100 for the Briar Bend Stabilization project.

Summary Statement *

Water Services has been working with the residents of 900 Briar Bend for about a year to resolve multiple issues. Issues include: 1) the creek is encroaching into the back yard; 2) Water Services has a sewer main that runs parallel to the creek and between the house and creek; and, 3) the house is close to the sewer main and there are large trees along the bank of the creek, which is approximately 15-feet deep and is supported by large concrete blocks.

The sewer main running through the back yard serves approximately ten (10) residents on Jane Lane and Briar Bend. Due to the unstable ground, the sewer main has broken several times. Large blocks of concrete placed in the yard to stabilize the erosion makes working in the area difficult as does the large trees, the house, and proximity of the creek.

Water Services considered several options to resolve this issue. One option was to pipe burst the existing line. However, the grade of the existing line and possible obstacles eliminated this method as an option. A second considered option was to build a lift station in the cul-de-sac of Briar Bend and lift the sewage out to Carter Creek. While a possible option, the ongoing maintenance cost of the lift station eliminated it as a viable option. A third option was to build a less expensive wall in the back yard. Several vendors visited the site and due to the proximity of the house and the sewer main, this option was eliminated. A fourth option was buying the property, tearing down the house, building a less expensive wall, and putting the lot back on the market for someone to build. This option was eliminated because the cost of the house, the wall, and the smaller piece of land on which to build a house was not feasible. The cost of the cheaper wall and buying the house was comparable to the wall that was bid.

A fifth option and the pursued option was for Water Services to bid a steel sheet pile cantilever wall, which is a 125-foot long wall with approximately 28-foot long piles bracing the creek bed. A drawing of the wall can be found in the attachments. The work includes site work, construction of the wall, providing for the private roof drains to penetrate the wall, and for site restoration. Once the wall is complete and a stable work area provided, Water Services will replace the sewer main through the back yard.

On November 24, 2015, three sealed bids were received from two vendors. During the bid process, staff allowed the submittal of an alternate design and bid for consideration and review. One vendor exercised this option and provided two (2) bids. The apparent low bidder was Fuqua Construction with a bid amount of \$292,100. The other bids received were from DCI Contracting in amounts of \$400,000 and \$511,000. The expected expense provided to the vendors was \$250,000.

Based on all of the considered factors, Water Services respectfully requests the City Council approve this contract. Water Services will use funds for miscellaneous sewer replacements to fund this project.

Staff Analysis & Recommendation *

Water Services recommends awarding the construction contract to Fuqua Construction to build the steel cantilever wall. The wall will provide a long term solution while protecting the sewer main and stabilizing the creek bed.

Options *

(In Suggested Order of Staff Preference)

1. Award the contract as bid.
2. Consider buying the house and building a less expensive wall.
3. Relocate the sewer main and leave the erosion for the residents to resolve.
4. Consider other options.

(Note: Options may require consideration at a future City Council meeting.)

Funding Source *

Wastewater Fund; Miscellaneous Sewer Replacement funds (as budgeted)

Attachments

BriarBend_Ddocumentsl.pdf

1.96MB

Please detail attachments and note attachments available for viewing in City Secretary's Office:

1. The single pdf attachment includes design drawings with a map and the bid tab.

Dept. Head Signature

JAYSON E. BALEFNECHT 2/2/15

**Deputy City Manager
Signature**

Hugh R. Walker

City Manager Signature

A handwritten signature in black ink, appearing to be "L. D.", written on a light gray rectangular background.

City Attorney Signature

Janis K. Hampton