



MEMORANDUM

To: Mayor and City Council

From: Ken Griffin, P.E., Director of Engineering and Public Works

Date: February 14, 2017

Reference: Design Contract for Erosion Control of Grapevine Creek in Hunterwood Park

2030: Sustainable City Government, Goal 3
Excellent and Well-maintained City Infrastructure and Facilities

General:

- This is for design only. Award of actual construction will be at a subsequent meeting.
- Design cost is \$160,568.00 and the estimated construction cost is \$800,000.
- Unlike other creeks in town, the City has the responsibly to maintain this creek because it is located in a City Owned Park.

Introduction:

This agenda item is being presented for approval to enter into a design contract with Pacheco Koch, LLC. in the amount of \$160,568.00, for the design of natural creek stabilization and a natural trail in Hunterwood Park.

Analysis:

In 2011, the Parks Department completed Phase 1 of the erosion control project, which consisted of a gabion retaining wall structure around the playground area. This project will be considered Phase 2, which is downstream of the playground. Over the years, Grapevine Creek has continued to experience channel incising and bank/slope failures. The scope of this project will provide drop structures in several locations which are used to control the grade along the creek by controlling the energy and velocities of the stream to reduce/eliminate future erosion and undercutting of the banks. Retaining walls utilizing natural erosion control materials will be built in the areas where the slope is failing. We will also add an additional trail to tie into the existing trails that meander throughout the park. This design contract will also include any necessary environmental impact assessments and permitting. Once, the design is complete, the City will bid the improvements and bring that to a subsequent Council for approval.

Legal Review:

The City's standard design contract has been reviewed by legal periodically, with changes made as requested.

Fiscal Impact:

The fiscal impact of this Agenda item is \$160,568.00 from the Drainage Utility District Fund (DUD Fund)

Recommendation:

The Engineering Department recommends approval of this contract with Pacheco Koch, LLC.