



17-820

TITLE: Consider/Discuss/Act on a Resolution Authorizing the City Manager to Execute a Contract and All Necessary Supplemental Agreements with Freese and Nichols, Inc., to Conduct a Drainage Study of the Stover Creek Watershed

COUNCIL GOAL: Enhance the Quality of Life in McKinney
Operational Excellence

MEETING DATE: August 15, 2017

DEPARTMENT: Development Services / Engineering

CONTACT: Kyle Odom, CFM, Environmental Engineering Manager
Michael Hebert, PE, CFM, Assistant Director of Engineering

RECOMMENDED CITY COUNCIL ACTION:

- Approval of Resolution.

ITEM SUMMARY:

- This Resolution authorizes the City Manager to execute a contract in the amount of \$343,000, and all necessary supplemental agreements thereto, with Freese and Nichols, Inc., to conduct a drainage study of the Stover Creek watershed for an amount not to exceed \$380,000.

BACKGROUND INFORMATION:

- This watershed is being studied as part of the City's Healthy Creeks and Lakes Program.
- In 2013, the City Council appointed a focus group of residents, developers, and engineers to propose changes to the Stormwater Management Ordinance. In 2014, changes were made easing the requirements for land development along creeks and streams. In 2015, the Storm Drainage Utility System fee was increased in part to address creek erosion issues and in part to fund studies such as this.
- The Stover Creek Watershed covers over eight square miles of property in the northwest sector of McKinney. This watershed is located north of U.S. 380 and

west of Lake Forest Drive. Stover Creek and its tributaries account for over 24 miles of streams in McKinney. This watershed was selected for study because it is anticipated to experience rapid growth in coming years.

- The goals of this study are to (1) delineate the existing conditions and fully developed floodplains on Stover Creek and its tributaries, (2) determine what, if any, future improvements are needed at roadway crossings in the watershed to protect against flooding, (3) determine what areas within the watershed are likely to experience increased erosion as this part of McKinney is developed in the future, and (4) present alternatives to address flooding and erosion concerns.
- The study, including all electronic modeling files, will be made available to property owners and land developers. This study will facilitate development in this part of McKinney while better protecting against flooding and erosion hazards.
- Freese and Nichols, Inc., was selected to conduct this watershed study and has submitted an acceptable scope and fee for this work.
- At a City Council meeting on March 3, 2015, Freese and Nichols, Inc., was one of six firms deemed qualified for this type of work based on their response to 15-03RFQ for Miscellaneous Drainage and Floodplain Management Services. Freese and Nichols was selected for this particular project based on their experience with similar projects.

FINANCIAL SUMMARY:

- This Resolution authorizes a contract for \$343,000 and all necessary supplemental agreements with Freese and Nichols, Inc., for an amount not to exceed \$380,000. Funding is available in the CIP in project number DR1645.

BOARD OR COMMISSION RECOMMENDATION:

- N/A

SUPPORTING MATERIALS:

[Resolution](#)

[Location Map](#)