



CITY COUNCIL MEMORANDUM

FROM: Office of the City Manager **DATE:** January 28, 2019
SUBJECT: Consider awarding Project RFB No. 19-006 to MHB Construction, Inc., for the construction of the Calloway Branch Channel Repair Project – Phase II (DR1503) in the amount of \$321,063.50 and approve associated budget revisions.
PRESENTER: Caroline Waggoner, Director of Public Works

SUMMARY:

The City Council is being asked to award a construction contract for the Calloway Branch Channel Repair Project (DR1503).

GENERAL DESCRIPTION:

On October 25, 2019, a bid opening was conducted for the Calloway Branch Channel Repair Project – Phase II. The project consists of installing structural piers to stabilize approximately 250 linear feet of earthen channel bank adjacent to the Graham Ranch subdivision.

The Calloway Branch is one of the city's major tributaries, beginning near the city's northern boundary and running over four miles south into Richland Hills. Its path is comprised of both concrete and earthen sections, and the watershed is largely developed. In 2015, staff became aware of some bank stability issues along an earthen section of Calloway Branch in the vicinity of the Graham Ranch subdivision. Half Associates was hired to design the needed bank stabilization, as well as to acquire the Army Corps of Engineers and FEMA permits needed. In 2017, a bank stabilization project was completed. The project consisted of removing the majority of the west bank of the channel behind the homes on Waggoner Ranch Road, and subsequently replacing the earthen material in lifts with reinforcing geogrid material at vertical intervals to provide the anchoring needed to prevent any future erosion problems. A small portion of the project also included drilled shafts to increase the bank strength in an area where the nearby residential structure was closest to the channel.

Several months after completion of the project, staff observed an unusual moisture condition developing near the mid-point of the project. This condition did not exist during the previous construction activity, so it was not addressed with the original project. Site investigation could not pinpoint the source of the ground water, and the saturated soils began to stress the recently installed geogrid material. The weight of the saturated soil is causing a bulge in the channel bank, and a failure within one of the back yards on



Waggoner Ranch Road. After consulting with the geotechnical engineer, it was determined that this portion of the channel bank needed structural fortification.

Notice of the city's intent to bid was advertised in local newspapers, as required by state statute, and posted on the city's website. City staff also reached out to local contractors. Because this work is specialized in nature and in such close proximity to multiple homes, the contract specifications required that an eligible contractor must have successfully completed three channel bank stabilization projects. Bid specifications were viewed on the city's website by multiple entities.

Three bids were received and are included in the table below. Following receipt of the bids, staff determined that a scope reduction could result in a lower bid price while still addressing the core issue, and the length of the pier installation was reduced. The updated bid amounts are also included below. Note that only two of the three bidders submitted second bids.

CONTRACTOR	ORIGINAL BID 10/25/2018	UPDATED BID 12/10/2018
FORT WORTH CIVIL CONTRACTORS	\$569,229.00	--
MHB CONSTRUCTION	\$442,020.35	\$321,063.50
REBCON, INC.	\$490,764.00	\$375,822.00

Additional funding in the amount of \$320,000 is needed in the Calloway Branch Channel Repair Project (DR1503) to complete this project. Staff is proposing to utilize \$320,000 in available construction funds from the Walker Branch Channel Repair Project (DR1701). Staff is currently in the consultant selection phase for DR1701 and the intent is to work out a targeted approach to repairing Walker Branch, which is anticipated to reduce construction costs making these funds available.

RECOMMENDATION:

Award Bid No. 19-006 to MHB Construction, Inc., in the amount of \$321,063.50 for construction of the Calloway Branch Channel Repair Project – Phase II and authorize the City Manager to execute such agreement and approve associated budget revisions.