



Legislation Text

File #: 2020-0298, **Version:** 1

Consider a resolution authorizing the Mayor to execute a Contract for Engineering Services with LJA Engineering, Inc. for the Round Rock West - Greenbelt Channel and Waterline Improvements Project.

The City previously entered into an Engineering Services Contract with LJA Engineering for providing a drainage assessment of the Greater Round Rock West Neighborhood Area. This area has a history of local drainage issues and flooding as identified by residents, property owners, and City staff.

Under the Greater Round Rock West (RRW) Drainage Assessment, the City previously retained LJA to analyze the neighborhood to identify and quantify local flooding and determine the level of service provided by the existing drainage infrastructure. A hydraulic 2D model was developed that identified potential flooded habitable structures and flood inundation areas outside of public right-of-way. After identifying all existing problem areas within the neighborhood, concept flood mitigation solutions were developed for the flood risk areas that were identified in the existing conditions analysis. A cost estimate was developed for each of the conceptual improvements. These estimates were used to determine the feasibility of each of the phases based on the total number of structures mitigated. The RRW greenbelt area was found to be one of the areas that has private properties with structures that would get inundated, due to an existing channel next to the properties that run along the greenbelt area. This area was selected as the area with the greatest number of mitigated structures in the conceptual improvement analysis.

An assessment to determine if any possible utility conflicts or to see if any existing utilities within the project area need to be replaced was conducted. The Utilities & Environmental Department has recommended that we replace an existing 12-inch waterline that lies within the project limits.

The scope of services for this contract includes the design of construction plans and bidding documents for the channel and waterline improvements.

Cost: \$124,636

Source of Funds: 2014 Drainage Revenue Bonds, Self-Financed Water Construction