
AGENDA REPORT

Meeting Date: February 17, 2022
Prepared By: Jason Greiner
Date Prepared: 2/11/22

Item Number: 3
Account Code: _____
Exhibits: _____

Subject

Consider and act upon the award of bid for the flood study at State Hwy 78/Alanis to Kimley-Horn and Associates, Inc.

Recommendation

Motion to award a contract to Kimley-Horn and Associates, Inc. in the amount of \$63,500 and further authorize the Executive Director to execute any and all necessary documents.

Discussion

As the Board will recall, the Wylie Economic Development Corporation is investigating potential infrastructure improvements to help attract light industrial development to the area. The intersection of State Hwy 78 & Alanis shows several undeveloped lots along Alanis and Muddy Creek runs from north to south through the middle of this undeveloped area.

While the area surrounding the creek is currently designated as FEMA Zone AE Floodplain, it is important to note that the WEDC owned Property is Zone A, and not in the floodplain. The purpose of the floodplain analysis will be to delineate the 100-year existing and fully developed floodplain limits, evaluate potential reclamation limits, and establish minimum finished floor elevations through the subject tract for land planning purposes. The subject reach of Muddy Creek will extend from the downstream face of Alanis Drive to the confluence with Maxwell Creek.

Kimley-Horn will request effective hydrologic and hydraulic models for Muddy Creek from the City and FEMA if necessary. Kimley-Horn assumes the models will be available, digital, and executable. Kimley-Horn assumes fully developed peak flows will not be available and modifications to the hydrologic model will be required to determine fully developed peak flows. Kimley-Horn will update the existing condition hydrologic parameters to reflect fully developed conditions based on the City land use maps to determine the 100-year fully developed peak flows. The FEMA effective flows will be used to evaluate existing condition floodplain.

Kimley-Horn will update the effective hydraulic models for Muddy Creek using the on-ground survey prepared in Task 1 and supplement with available aerial topography as needed to create a revised existing condition hydraulic model. Cross sections will be added throughout the subject reach at approximately 300-foot intervals.

Kimley-Horn will evaluate the potential for floodplain reclamation for the subject property. Kimley-Horn will create a proposed condition hydraulic model for the subject reach by modifying the revised existing model using conceptual grading. Kimley-Horn will update the proposed conceptual grading up to two times to meet City and FEMA

requirements regarding water surface elevation. Kimley-Horn will delineate the 100-year existing and fully developed floodplain for the subject reach and prepare a floodplain workmap exhibit to be submitted to the Client. This task does not include submittals to the City or FEMA.

Phase I - Cost Estimates only include Tasks 1-4 on the Professional Services Agreement. The motion does not include all of the Tasks 5-9, nor does it include the FEMA LOMR fee of \$8,000.

1. Topographic Survey - \$14,500 LS
2. Aquatics Resources Delineation - \$6,500 LS
3. Preliminary Floodplain Analysis - \$28,000 LS
4. Mass Grading Plans - \$7,500 LS

Additional expenses are included for Submittals, Permitting, Meeting Costs and Team Coordination with Kimley-Horn in the amount of \$7,000.

Upon approval, WEDC Staff will sign and return the documentation and expedite this process.