



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: September 7, 2021

Re: Authorizing an Agreement for Professional Engineering Services with Bartlett & West, Inc. for Design Services Related to the Rehabilitation of the Green Valley Drive Bridge.

Executive Summary

Staff is requesting Council authorize the City Manager to execute a professional engineering services agreement with Bartlett & West, Inc. for design services related to the rehabilitation of the Green Valley Drive bridge, which carries Green Valley Drive over the Hominy Creek.

Discussion

The Missouri Department of Transportation (MoDOT) performs regular inspections of all City own bridges. In 2021, MoDOT inspectors determined the Green Valley Drive Bridge over the Hominy Creek, which was constructed in 1935, is in need of structural repairs. MoDOT requested the weight limit for the bridge be reduced to three (3) tons due to corrosion of fracture critical members. Signs have been erected to load restrict the bridge to three (3) tons. The current three (3) ton rating does not allow for school buses, fire trucks, trash or recycling trucks, snow plows or any other vehicles over three tons to cross the bridge.

Due to the lack of redundancy in the design of the bridge, which makes the structural members fracture critical, MoDOT states the bridge could be forced to close to all traffic in less than 2 years, unless structural repairs are made. Bartlett & West, Inc. has performed a preliminary assessment, and while additional analysis is needed, believes the bridge can be improved without replacing the entire structure.

This professional engineering services agreement would allow Bartlett & West, Inc. to design the repair for the current bridge, anticipated to consist of replacement of the floor beams, which would remove the current weight limit restriction and allow the bridge to remain open to traffic. Some load restriction may still be necessary, and that will be determined during the design phase; additional information will be provided at a later date.

Fiscal Impact

Short-Term Impact: The agreement with Bartlett & West, Inc. is for a not to exceed amount of \$32,120 and will be funded by quarter-cent Capital Improvement Program sales tax.

Long-Term Impact: Unknown costs associated with repairs, to be determined at a later date, anticipated to be less than \$150,000.



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Strategic & Comprehensive Plan Impact

Strategic Plan Impacts:

Primary Impact: Reliable Infrastructure, Secondary Impact: Safe Neighborhoods, Tertiary Impact: Tertiary

Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Mobility, Connectivity, and Accessibility, Tertiary Impact: Tertiary

Legislative History

Date	Action
7/6/2021	B229-21 Amending the FY 2021 Annual Budget by appropriating funds for Public Works Department capital improvement projects.

Suggested Council Action

Authorize the City Manager to execute the professional engineering services agreement with Bartlett & West, Inc. for design services related to the rehabilitation of the Green Valley Drive bridge.