



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: May 5, 2025

Re: Authorizing an Agreement for Professional Engineering Services with Bartlett & West for design services relating to the replacement of the Old Plank Rd culvert structure.

Executive Summary

Authorizing the City Manager to execute a professional engineering services agreement with Bartlett & West for design services relating to the replacement of the Old Plank Rd culvert structure. The engineering design services agreement is for a not to exceed amount of \$59,663.

Discussion

Bartlett & West has been chosen through the pre-qualified professional consultants process to provide design services for the replacement of the Old Plank Rd culvert structure. The project is being funded by the Missouri Department of Transportation (MoDOT) Regional Bridge (BRO) Program for removal and construction of a culvert structure on Old Plank Road. The Missouri BRO Program provides funding for bridge replacement of structures that are structurally deficient. The program is administered through MoDOT.

The existing culvert structure was constructed in 1986 and consists of three 66" diameter corrugated metal pipes with an asphalt road above. It is located just south of the intersection of Forum Boulevard with Old Plank Road and an ephemeral stream runs through the culverts. The size of the three culverts falls under MoDOT's definition of a bridge and therefore, is eligible for the BRO funding.

The culverts are 90% rusted through on the bottom with a loss of bedding material resulting in a serious rating for the pipes condition. The rusted culverts lead to erosion of the pipe bedding; thus, reducing the integrity of the pipes and roadway surface. In addition, with three culverts next to each other, debris can accumulate on the upstream end resulting in slowing down the water flow and placing additional pressure on the pipes. The proposed improvement for the structure will include removing the three existing culverts and replacing them with a single opening arch pipe or box culvert.

The total project cost estimate is \$237,100. MoDOT will match 80.45% of the cost and the City will match 19.55% of the cost. Funding for the City's match will be by the ¼-cent Capital Improvement Program sales tax.



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Fiscal Impact

Short-Term Impact: The engineering services agreement with Bartlett & West is for a not to exceed amount of \$59,663 and will be funded by the City's ¼-cent Capital Improvement Sales Tax (19.55%) and MoDOT BRO funding (80.45%)

Long-Term Impact: Routine maintenance.

Strategic & Comprehensive Plan Impact

Strategic Plan Impacts:

Primary Impact: Reliable and Sustainable Infrastructure, Secondary Impact: Secondary, Tertiary Impact: Tertiary

Comprehensive Plan Impacts:

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

Legislative History

Date	Action
02/03/2025	B18-25 Authorizing an off-system bridge program agreement with the Missouri Highways and Transportation Commission associated with the Old Plank Road culvert structure replacement project; amending the FY 2025 Annual Budget by appropriating funds.
11/04/2024	R190-24 Authorizing application to the Missouri Department of Transportation for state funding from the Regional Bridge Program for replacement of the Old Plank Road culvert structure

Suggested Council Action

Authorize the City Manager to execute a professional engineering services agreement with Bartlett & West for design services relating to the replacement of the Old Plank Rd culvert structure.