



Department Source: City Utilities - Sewer/Stormwater

To: City Council

From: City Manager & Staff

Council Meeting Date: February 5, 2024

Re: Authorizing the acquisition of easements for the proposed construction of stormwater improvements on Calvert Drive, Sylvan Lane and Vandiver Drive, and proposed construction of sanitary sewer improvements on Calvert Drive.

## Executive Summary

Staff has prepared for Council consideration an ordinance authorizing the acquisition of easements necessary for the stormwater improvements on Calvert Drive, Sylvan Lane and Vandiver Drive, and proposed construction of sanitary sewer improvements on Calvert Drive, as shown on the attached Project Graphic. At the October 16, 2023 public hearing, Council authorized staff to proceed with the project and finalize the design.

## Discussion

Calvert Drive Stormwater and Sanitary Sewer Improvement Project will consist of constructing stormwater infrastructure improvements on Vandiver Drive and Sylvan Lane, a regional detention basin at Calvert Drive, and relocating the sanitary sewer at Calvert Drive.

This project will require the acquisition of Nine (9) permanent drainage easements, one (1) temporary access easement, eleven (11) temporary construction easements, and four (4) permanent sanitary sewer easements from twelve (12) parcels/property owners. See individual project graphics of the proposed easements to be acquired.

The proposed stormwater improvements include 2,080 feet of new stormwater conveyance, ten (10) inlets and six (6) stormwater structures. The proposed sanitary sewer improvements include approximately 490 feet of new sewer pipe and three (3) new sanitary sewer structures. Refer to the Stormwater Project Graphic and Sewer Project Graphic.

Vandiver Drive has limited street inlet capacity and undersized stormwater pipes, causing frequent street flooding. Currently, the storm inlet system at Vandiver manages less than the 5-year rainfall runoff event, whereas the pipe can manage up to a 10-year rainfall runoff event. Vandiver Drive is classified as a major arterial road, and it is vital to keep the road well drained. Additionally, the City's corrugated metal stormwater pipes (CMP) drain underneath the building at 2510 Vandiver Drive. CMP is prone to rusting, deterioration, and causing sinkholes when it fails. Therefore, relocation and upgrading the storm system is proposed to reduce flooding and eliminate future storm system maintenance from under the building.

The proposed stormwater system will drain into a new regional detention basin, providing water quality treatment and flood detention for approximately 35 acres of drainage area in the Hinkson Creek watershed.



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Construction plans are 90% complete, with construction expected in 2025. The cost estimate for the stormwater project is \$3,400,000. Financing for this project will be through Storm Water Utility funds. The resolution estimate for the sanitary sewer project is \$255,000, which will be paid from Sewer Utility funds. The Calvert Drive stormwater project has been approved by Missouri Department of Natural Resources (MDNR) for \$2,219,928.20 in reimbursable American Rescue Plan Act (ARPA) funds. A partial award of \$42,154.00, with \$33,301.66 being grant, was agreed to with MDNR at the December 18, 2023 Council meeting. The remaining grant will be awarded after the construction has been bid through Purchasing.

## Fiscal Impact

Short-Term Impact: The cost estimate for the Calvert Drive Stormwater Improvement Project is \$3,400,000. The cost estimate for the Calvert Drive Sewer improvements project is \$255,000. Long-Term Impact: Increased annual costs to the Stormwater Utility for maintaining the detention basin. Work can be accomplished with current staffing and operations budget.

## Strategic & Comprehensive Plan Impact

### Strategic Plan Impacts:

Primary Impact: Reliable and Sustainable Infrastructure, Secondary Impact: Not Applicable, Tertiary Impact: Not Applicable

### Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Environmental Management, Tertiary Impact: Land Use & Growth Management

## Legislative History

Date	Action
12/18/2023	B302-23 Ordinance: Accepting a partial award of grants funds from the Missouri Department of Natural Resources for the Calvert Drive stormwater detention project; authorizing a financial assistance agreement; amending the FY 2024 Annual Budget by appropriating funds.
10/16/2023	PH36-23 Public Hearing: construction of stormwater improvements on Calvert Drive, Sylvan Lane and Vandiver Drive, and proposed construction of sanitary sewer improvements on Calvert Drive.
09/05/2023	R2-23 Setting a public hearing: Proposed construction of stormwater improvements on Calvert Drive, Sylvan Lane and Vandiver Drive, and proposed construction of sanitary sewer improvements on Calvert Drive.
04/17/2023	R61-23 Resolution: Authorizing an agreement for professional engineering services with Thouvenot, Wade & Moerchen, Inc. for



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02/15/2023	topographic and boundary surveys for the Calvert Drive storm water improvement project. Interested Parties Meeting
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Suggested Council Action

Approval of the ordinance.