

Capital Improvement Plan Projects
City of Olathe, Kansas

2024 thru 2028

Department Public Works
Contact Nate Baldwin
Type Maintenance
Category Bridges

Project # 3-G-010-XX

Project Name 135th Street Retaining Wall

Focus Area Infrastructure

Description

Total Project Cost: \$2,020,000

This project would replace the retaining wall along the south side of 135th Street between Brougham Drive and Arapaho Drive. The existing retaining wall is a modular block type wall, approximately 750 feet long and up to 7.5 feet tall, and is leaning forward throughout the entire length, up to 1" per foot.

Justification

In 2021, the City hired a structural engineering firm to conduct a condition assessment of the retaining wall. The wall system was found to be leaning forward throughout the entire length, up to 1" per foot. Fences and utility boxes behind the wall are also leaning towards the north. The wall, soil, fences, etc appear to be slowly rotating forward as one large mass. The wall system is expected to continue rotating forward slowly until it fails or is either repaired or replaced. Replacement vs. repair costs were evaluated, and it was determined that it would be cheaper to replace the wall rather than attempt to repair it.

Expenditures	2024	2025	2026	2027	2028	Total
Construction	1,325,000					1,325,000
Utilities	50,000					50,000
Contingency	320,000					320,000
Design	210,000					210,000
Inspection	15,000					15,000
Staff	15,000					15,000
Inflation	85,000					85,000
Total	2,020,000					2,020,000

Funding Sources	2024	2025	2026	2027	2028	Total
GO Bonds 10 yr	2,020,000					2,020,000
Total	2,020,000					2,020,000

Budget Impact/Other