

Project Number: SW017
Project Title: Storm Sewer Lining Program
Department Name: DPW - Operations

Asset Type: Stormwater Management
CIP Status: Recurring
Project Category: Capital Maintenance

Budget Year: 2019
Category Code: A
Sector: Various

Project Purpose:

This is a sustainable asset project that provides for the cleaning and lining of the City's stormwater infrastructure.

Project Narrative:

As storm sewers age, deterioration occurs and causes structural defects, which leads to pipe failure and the need for replacement. Some city sewers are more than 80 years old and the lining process can add up to 75 years to life of the sewer while being less invasive and expensive than excavating and replacing the pipe. The City has approximately 10,000 - 12,000 linear feet of storm sewer pipe planned for 2019, depending on the size of pipe that range from 8 inches to 36 inches in diameter. The City has re-lined approximately 200,000 linear feet since the projects inception in FY04, which has lead to a reduction in localized flooding and related complaints. The City televises the storm lines prior to lining to allow DPW to more accurately and efficiently schedule storm sewer lining activities and repair pipes through CIP Project SW001 in preparation for the lining process.

External Funding Sources Available:

None

Projected Timetable:

2019 - Grids 113, 114, 128, 129 (West Highlands)

Impact on Operating Budget:

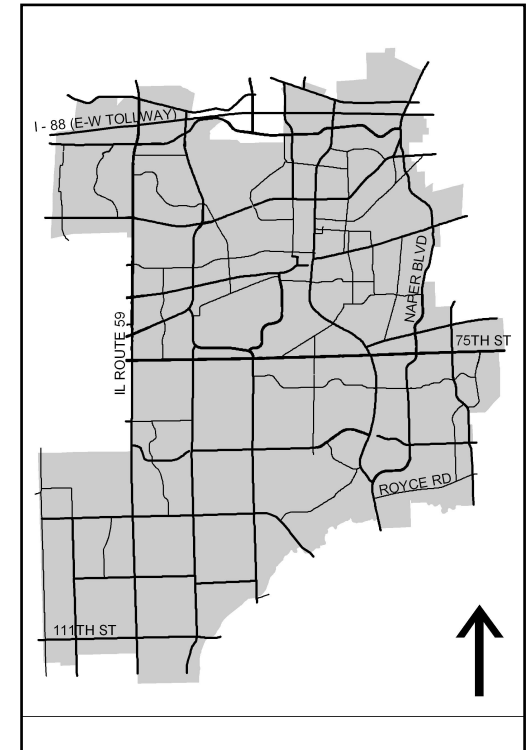
Project can reduce emergency maintenance costs and allow employees to maintain sewer through routine flushing and inspecting.

Funding Source Summary

Funding Source	2019	2020	2021	2022	2023	Total Source
Unfunded Capital	600,000	612,000	624,240	636,725	649,459	3,122,424
Totals	600,000	612,000	624,240	636,725	649,459	3,122,424

Project Cost Summary

Expense Category	2018 Budget	2019	2020	2021	2022	2023	Total CIP
Construction	600,000	600,000	612,000	624,240	636,725	649,459	3,122,424
Totals	600,000	600,000	612,000	624,240	636,725	649,459	3,122,424



Project Number:	SW037	Asset Type:	Stormwater Management	Budget Year:	2019
Project Title:	Corrugated Metal Pipes (CMP) Repair & Replacement Program	CIP Status:	New	Category Code:	A
Department Name:	DPW - Operations	Project Category:	Capital Maintenance	Sector:	

Project Purpose:

This is a multiyear program that will identify and prioritize all the CMP within the City in order to replace or repair them.

Project Narrative:

This project seeks to determine the condition and solutions to maintaining all the City's CMP pipe within its stormwater infrastructure. There are twelve & a half miles of existing CMPs at 778 different locations, averaging over 30 years old and ranging from 10 to 60 inches in diameter. With CIP funds being limited, having a 10 year maintenance plan for repairs and replacements enables the City to budget these costs annually, minimizing emergency repairs and high replacement costs. In CY2018, an engineering firm located and did a quick assessment of these pipes due to a high amount of sink holes reported around the City. The findings show that the vast majority of them need replacement or repair and have been the main causes of sinkholes in our Right of Ways and near detention areas. In CY2019, all the CMPs will be evaluated and prioritized for restoration. High priorities will be fixed and a more detailed plan will be developed for repair over a ten year period.

External Funding Sources Available:

Projected Timetable:

2019 - DPW will utilize the data previously collected by the City for each location and verify the information. Engineering consultant will inspect each location and rate them. A detailed plan will be put together to repair/replace the rest of the CMPs over a ten year period.
2020-2019 - Repair and Replacement of CMPs per the plan developed.

Impact on Operating Budget:

Funding Source Summary

Funding Source	2019	2020	2021	2022	2023	Total Source
Unfunded Capital	180,000	183,600	187,272	191,017	194,838	936,727
Totals	180,000	183,600	187,272	191,017	194,838	936,727

Project Cost Summary

Expense Category	2018 Budget	2019	2020	2021	2022	2023	Total CIP
Construction	0	150,000	153,000	156,060	159,181	162,365	780,606
Professional Services	0	30,000	30,600	31,212	31,836	32,473	156,121
Totals	0	180,000	183,600	187,272	191,017	194,838	936,727