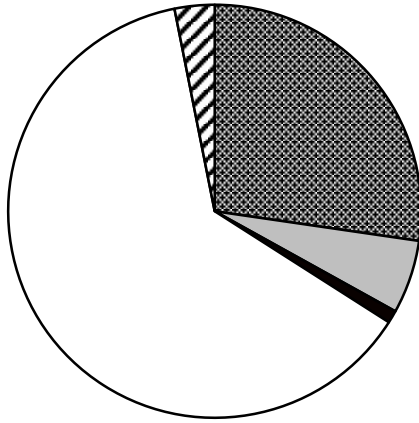


SANITARY SEWER SYSTEM

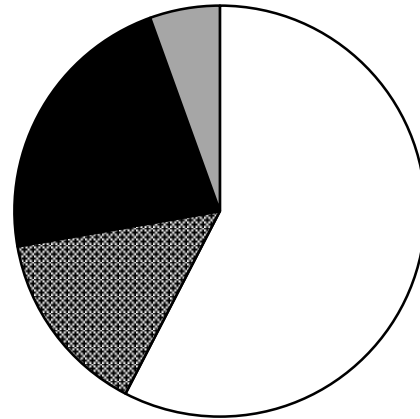
2021-2025 Capital Improvement Program

**2020-2021 Proposed
Source of Funds**



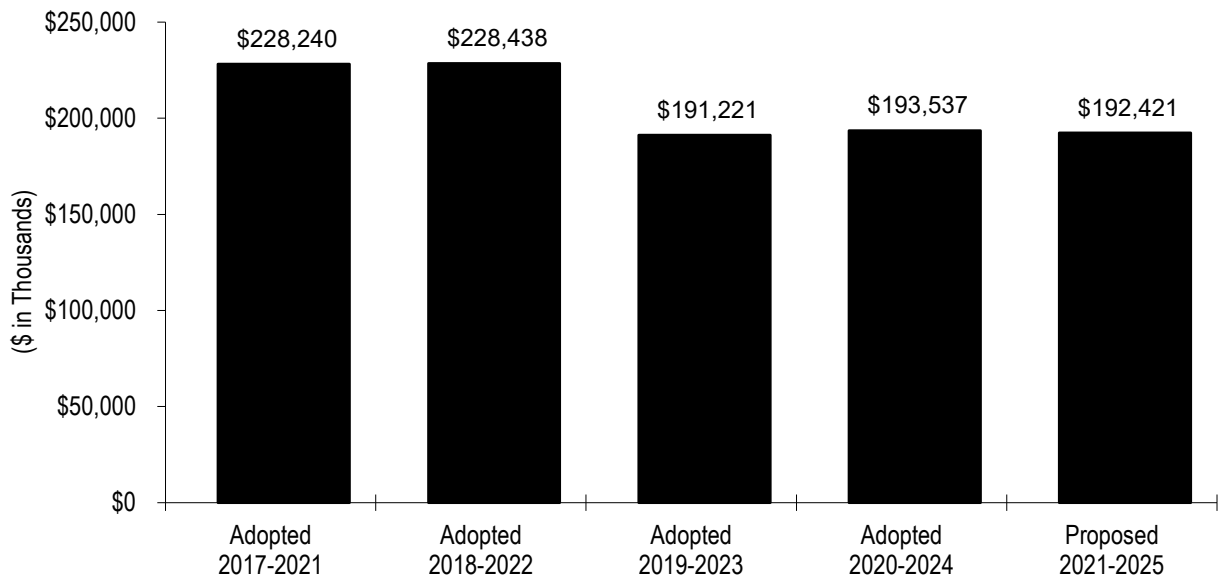
- Beginning Fund Balance
- Other Government Agencies
- Taxes, Fees and Charges
- Transfers
- Interest

**2020-2021 Proposed
Use of Funds**



- Construction
- Non-Construction
- Ending Fund Balance
- Allocations and Transfers

CIP History



Sanitary Sewer System

2021-2025 Proposed Capital Improvement Program

Overview

INTRODUCTION

The Sanitary Sewer System of the City of San José consists of approximately 2,030¹ miles of sewer mains ranging in diameter from 6 to 90 inches. The system serves the City, as well as several other jurisdictions, including West Valley Sanitation District (WVSD), City of Santa Clara, County Sanitation Districts 2-3, and Burbank Sanitation District, and conveys sewage to the San José-Santa Clara Regional Wastewater Facility (RWF). The replacement value of the system is estimated at approximately \$3.5 billion.

SANITARY SEWER SYSTEM PUBLIC INFRASTRUCTURE	
MILES OF SEWER MAINS	
6" TO 8" in diameter	1,580
10" TO 12" in diameter	200
OVER 12" in diameter	250
NUMBER OF MANHOLES	39,380
NUMBER OF PUMP STATIONS	17

The 2021-2025 Proposed Capital Improvement Program (CIP) provides funding of \$192.4 million, of which \$50.9 million is allocated in 2020-2021. This program is part of the Environmental and Utility Services City Service Area (CSA) and supports the following outcome: *Reliable Utility Infrastructure*.

PROGRAM PRIORITIES AND OBJECTIVES

The 2021-2025 Proposed Sanitary Sewer System CIP supports the priorities and objectives of the Environmental and Utility Services CSA by maintaining the following strategic priorities:

- Ensure adequate capacity within the system and to reduce Sanitary Sewer Overflows (SSOs);
- Support the goal of preventing SSOs by providing sufficient system capacity and maintaining system structure integrity;
- Manage system capacity, assess the system's condition, and construct sewer improvement projects;
- Improve sewer capacity in substantially built-out areas and less-developed areas to accommodate economic development; and
- Rehabilitate existing sewers with a higher priority given to those with extensive, severe deterioration.

The Sanitary Sewer System CIP is guided by several interrelated plans, and chief among them is the Envision San José 2040 General Plan (General Plan). The General Plan provides a guide for all capital improvement programs to align public infrastructure investment with San José's plans for future growth. This means that the projects included in the Sanitary Sewer System CIP ensure adequate sewer capacity and reliability to safely convey sewage city-wide, as well as within those areas designated for future development. The land uses and growth included in the General Plan were also used in the development of the Sanitary Sewer Master Plan that was completed in early 2013.

¹ Total length was updated in 2019 based on the latest GIS data to exclude sewer mains that were abandoned or owned by adjacent agencies or private developers.

Sanitary Sewer System

2021-2025 Proposed Capital Improvement Program

Overview

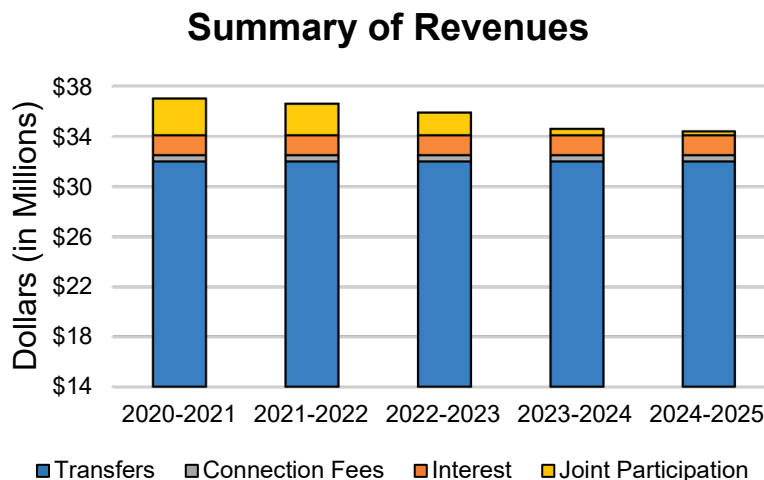
PROGRAM PRIORITIES AND OBJECTIVES

The Master Plan helped identify and address trunk sewer capacity deficiencies in the existing system and forecast additional capacity-enhancing projects required to meet future demands in the context of the General Plan.

As identified in the Status Report on Deferred Maintenance and Infrastructure Backlog accepted by City Council on February 25, 2020, the Sanitary Sewer Collection System has estimated unfunded needs of approximately \$2.4 million per year. The City will continue to evaluate staffing levels and resources and overall strategic capital improvement priorities at both the RWF and the sanitary collection system to address the remaining unfunded needs in the future.

SOURCES OF FUNDING

The 2021-2025 Proposed CIP provides funding of \$192.4 million, of which \$50.9 million is allocated in 2020-2021. Revenue for this CIP is derived from the following sources: transfers from the Sewer Service and Use Charge (SSUC) Fund, Sanitary Sewer Connection Fees, and “Joint Participation” contributions from other jurisdictions served by the Sanitary Sewer System for the use of San José sewer lines. Among these revenues, the SSUC Fund transfer continues to be the primary funding source for the program.



PROGRAM HIGHLIGHTS

The Sanitary Sewer System Capital Program’s expenditures are organized to show the use of funds in several categories. The following highlights the major projects in the program. For further information on the program’s individual projects, please refer to the Detail Pages.

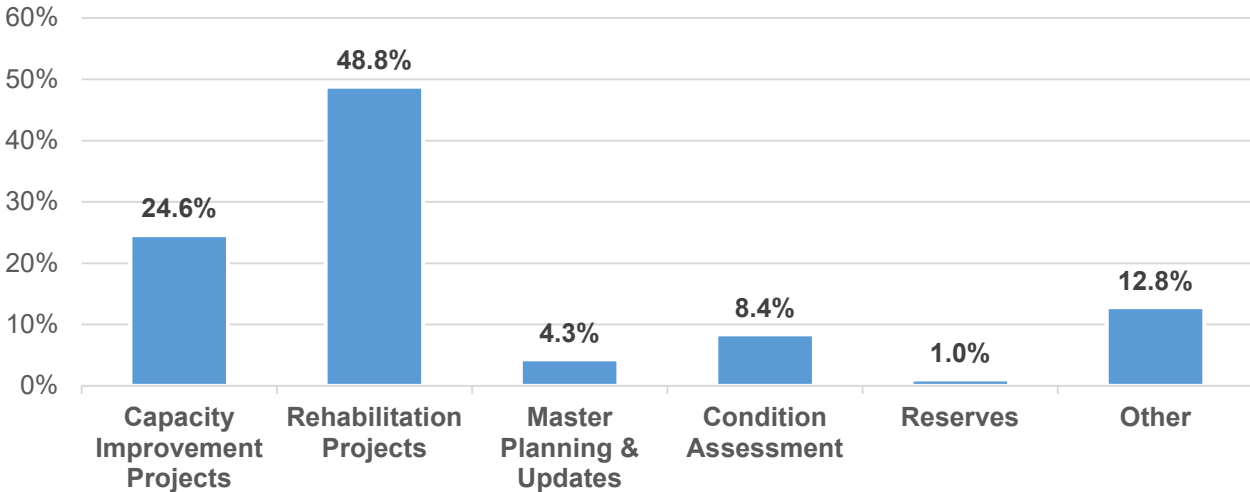
Sanitary Sewer System

2021-2025 Proposed Capital Improvement Program

Overview

PROGRAM HIGHLIGHTS

2021-2025 Sanitary Sewer System Capital Program Expenditures
\$190.8 million
(excludes Ending Fund Balance)



Capacity Improvement

Slightly less than one-quarter of the budget, or \$47 million, is programmed in this Proposed CIP to improve capacity of the Sanitary Sewer system. These capacity improvement projects include \$5.9 million for the North Interceptor System, \$12 million for site-specific projects, and \$29 million for Immediate Replacement and Diversion Projects. Projects are selected using a computerized sewer flow model (which uses the General Plan to project sewage flows in the system), City maintenance records, and flow monitoring to identify sewer capacity constraints.

Funding totaling \$5.9 million is programmed in this Proposed CIP for the North Interceptor System to manage the construction of the 60-inch Brick Interceptor, Phase VIA (\$0.4 million) and complete the design of the Fourth Major Interceptor, Phase VIIA (\$5.5 million). The North Interceptor System is a collection of very large sanitary sewer pipes with diameters ranging from 54 to 90 inches. In general, an interceptor is a large pipe serving as a primary sewage collector. Interceptors carry flows from the sub-collector sewers in the drainage basin to the point of treatment or disposal of the wastewater. The North Interceptor System Master Plan, originally drafted in 1986, was updated in 2002 and includes an assessment of the hydraulic condition of the large sewers, a determination of the level of corrosion in the pipelines, and validated capacity of the system. The final recommendations for programmed rehabilitation of existing sewer interceptors and construction of new sewer interceptors have been incorporated into the Proposed CIP and will be referred to in the preparation of subsequent CIPs. Capital improvements to the interceptor system consist of large interrelated projects that must be staged in a specified sequence for logical construction of the system.

Sanitary Sewer System

2021-2025 Proposed Capital Improvement Program

Overview

PROGRAM HIGHLIGHTS

Presently, the City has three major sewer interceptors in the North Interceptor System that originate at the intersection of Seventh and Empire Streets and continue northward to the RWF, mostly along the full length of Zanker Road. A new, multi-phased fourth major interceptor is also under construction with five of seven phases completed. When completed, the fourth major interceptor will allow one of the three older interceptors to be removed from service during dry weather periods for the purpose of routine maintenance or rehabilitation. Such flexibility is important and currently not available in all reaches of the system.



Fourth Street 84-inch Interceptor Phase VI-A

Rehabilitation

Funding totaling \$93.2 million is programmed for sewer rehabilitation and replacement in other areas of the City, mostly targeted toward older neighborhoods facing structural deterioration or changes in sewage flow patterns. Rehabilitation projects are selected based on hydrogen sulfide studies that analyze pipe corrosion, condition assessment studies, video inspections, maintenance records and reports, and actual pipe failures, whether due to pipe corrosion or other physical deficiencies. This funding also is used to support the recently developed Exfiltration Abatement Program, a program implemented across a variety of ongoing repair and rehabilitation projects to assess and prioritize possible exfiltration risks. This program facilitates the search and repair of damaged sewer mains in order to prevent leakage into adjacent storm sewer mains.

Other Project Highlights

The Master Planning Program actively monitors and manages sewer system capacity needs using a computerized hydraulic model of the San José sewer system, supported by sewer flow monitoring that collects flow data at strategic locations within the system. The Master Planning Program continues to enhance the accuracy of the computerized model by incorporating land use changes and updated sewer and flow data. The Master Planning Program also supports economic development in the City by providing sewer capacity review and planning using the models.

The Sanitary Sewer Condition Assessment Program, initiated in 2009, is an ongoing program to assess the structural integrity of the collection system including pipes, force mains, manholes, junction structures, and pump stations. Data collected through visual and closed circuit television inspection and as-built information will be reviewed, analyzed, and prioritized based on a risk analysis approach using information such as pipe size, location, design flow, physical conditions, and maintenance histories. With this information, rehabilitation budgets and preventive maintenance and improvement programs can be planned and prioritized.

Sanitary Sewer System

2021-2025 Proposed Capital Improvement Program

Overview

MAJOR CHANGES FROM THE 2020-2024 ADOPTED CIP

The overall size of the Sanitary Sewer System CIP has decreased by \$1.1 million from \$193.5 million in the 2020-2024 Adopted CIP to \$192.4 million in the 2021-2025 Proposed CIP. The following table outlines the most significant changes to project budgets, including new/augmented allocations and reduced/eliminated allocations.

Project	Incr/(Decr)
Urgent Rehabilitation and Repair Projects	(\$2.0 million)
60 inch Brick Interceptor, Phase VIA and VIB	(\$1.6 million)
Miscellaneous Capacity Improvements	(\$1.5 million)
Bollinger Road – Moorpark Avenue – Williams Road Sanitary Sewer Improvements	(\$1.3 million)
Flow Monitoring Program (Master Planning)	(\$1.0 million)
Immediate Replacement and Diversion Projects	(\$800,000)
Rehabilitation of Sanitary Sewer Pump Stations	(\$700,000)
Master Planning Updates	(\$675,000)
Westmont Avenue and Harriet Avenue Sanitary Sewer Improvements	(\$516,000)
Rincon Avenue – Virginia Avenue Sanitary Sewer Improvements	(\$300,000)
Infrastructure – Sanitary Sewer Condition Assessment	\$1.0 million
Sierra Road Sanitary Sewer Improvement	\$1.3 million
McKee Avenue Sanitary Sewer Improvement	\$1.5 million
Blossom Hill Road and Leigh Avenue Sanitary Sewer Improvement	\$5.4 million

OPERATING BUDGET IMPACT

All the projects in the Proposed Sanitary Sewer System CIP rehabilitate or replace existing sewers in order to avoid possible future maintenance costs and therefore do not incur additional long-term operating and maintenance costs.

Sanitary Sewer System
2021-2025 Proposed Capital Improvement Program
Source of Funds (Combined)

	Estimated						
	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	5-Year Total
TOTAL SOURCES	120,734,232	50,920,531	47,792,531	40,255,531	35,609,531	37,144,531	192,420,531
Sewer Service and Use Charge Capital Improvement Fund (545)							
Beginning Balance	21,937,018	11,901,270	9,752,270	3,474,270	446,270	2,438,270	11,901,270 *
Reserve for Encumbrance	56,993,414						
Transfers							
Transfer from the Sewer Service and Use Charge Fund (541)	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	160,000,000
TOTAL Transfers	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	160,000,000
Revenue from Use of Money and Property							
Interest Income	1,051,000	1,519,000	1,519,000	1,519,000	1,519,000	1,519,000	7,595,000
TOTAL Revenue from Use of Money and Property	1,051,000	1,519,000	1,519,000	1,519,000	1,519,000	1,519,000	7,595,000
Revenue from Local Agencies							
Sanitary Sewer Joint Participation-	3,960,000	2,820,000	2,400,000	1,700,000	400,000	200,000	7,520,000
TOTAL Revenue from Local Agencies	3,960,000	2,820,000	2,400,000	1,700,000	400,000	200,000	7,520,000
Total Sewer Service and Use Charge Capital Improvement Fund (545)	115,941,432	48,240,270	45,671,270	38,693,270	34,365,270	36,157,270	187,016,270 *

* The 2021-2022 through 2024-2025 Beginning Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same fund

Sanitary Sewer System
2021-2025 Proposed Capital Improvement Program
Source of Funds (Combined)

	Estimated						
	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	5-Year Total
Sanitary Sewer Connection Fee Fund (540)							
Beginning Balance	3,177,062	1,999,262	1,440,262	881,262	563,262	306,262	1,999,262 *
Reserve for Encumbrance	937,738						
Revenue from Use of Money and Property							
Interest Income	68,000	71,000	71,000	71,000	71,000	71,000	355,000
TOTAL Revenue from Use of Money and Property	68,000	71,000	71,000	71,000	71,000	71,000	355,000
Revenue from Local Agencies							
Sanitary Sewer Joint Participation-	110,000	110,000	110,000	110,000	110,000	110,000	550,000
TOTAL Revenue from Local Agencies	110,000	110,000	110,000	110,000	110,000	110,000	550,000
Fees, Rates and Charges							
Sanitary Sewer Connection Fees	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000
TOTAL Fees, Rates and Charges	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000
Total Sanitary Sewer Connection Fee Fund (540)	4,792,800	2,680,262	2,121,262	1,562,262	1,244,262	987,262	5,404,262 *

* The 2021-2022 through 2024-2025 Beginning Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds

Sanitary Sewer System

2021-2025 Proposed Capital Improvement Program Use of Funds (Combined)

	Estimated 2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	5-Year Total
<u>Sanitary Sewer System</u>							
60 inch Brick Interceptor, Phase VIA and VIB	37,398,475	400,000					400,000
Blossom Hill Road and Leigh Avenue Sanitary Sewer Improvement		200,000	5,200,000				5,400,000
Bollinger Road - Moorpark Avenue - Williams Road Sanitary Sewer Improvements	9,371,910	205,000					205,000
Fourth Major Interceptor, Phase VIIA			500,000	5,000,000			5,500,000
Immediate Replacement and Diversion Projects	9,246,113	5,400,000	5,900,000	4,300,000	6,850,000	6,500,000	28,950,000
McKee Avenue Sanitary Sewer Improvement				1,500,000			1,500,000
Miscellaneous Capacity Improvements	1,500,000						
Rincon Avenue - Virginia Avenue Sanitary Sewer Improvements	735,329						
Sierra Road Sanitary Sewer Improvement		2,300,000	200,000				2,500,000
Technology Drive Sanitary Sewer Improvement						2,500,000	2,500,000
Trimble Road and Capewood Lane Sanitary Sewer Improvements	99,229						
Westmont Avenue and Harriet Avenue Sanitary Sewer Improvements	5,211,825						
Capacity Improvement Projects	63,562,881	8,505,000	11,800,000	10,800,000	6,850,000	9,000,000	46,955,000
Almaden Supplement Sewer Rehabilitation (North)		200,000	2,930,000				3,130,000
Cast Iron Pipe - Remove and Replace	6,657,689	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	25,000,000
Condition Assessment Sewer Repairs	10,666,646	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	30,000,000
Inflow and Infiltration Reduction	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000
Rehabilitation of Sanitary Sewer Pump Stations	1,385,178	540,000					540,000
Reinforced Concrete Pipe Rehabilitation Program	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000
Urgent Rehabilitation and Repair Projects	11,374,017	7,000,000	7,000,000	7,000,000	5,000,000	5,000,000	31,000,000

Sanitary Sewer System

2021-2025 Proposed Capital Improvement Program Use of Funds (Combined)

	Estimated						
	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	5-Year Total
Rehabilitation Projects	30,783,530	19,440,000	21,630,000	18,700,000	16,700,000	16,700,000	93,170,000
Sanitary Sewer - Construction	94,346,411	27,945,000	33,430,000	29,500,000	23,550,000	25,700,000	140,125,000
Citywide Emergency Preparedness - Sanitary Sewer	500,000						
Fee Administration - Sanitary Sewer	85,000	85,000	85,000	85,000	85,000	85,000	425,000
Flow Monitoring Program (Master Planning)	1,456,973	900,000	650,000	650,000	650,000	650,000	3,500,000
Infrastructure - Sanitary Sewer Condition Assessment	3,359,120	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000	16,000,000
Master Planning Updates	2,295,560	1,600,000	1,600,000	1,625,000	1,700,000	1,700,000	8,225,000
Payments to West Valley Sanitation District	10,000	10,000	10,000	10,000	10,000	10,000	50,000
Permit Review and Inspection for Outside Agencies - Sanitary Sewer	25,000	25,000	25,000	25,000	25,000	25,000	125,000
Preliminary Engineering - Sanitary Sewer	965,138	950,000	950,000	950,000	950,000	950,000	4,750,000
Program Management - Sanitary Sewer	300,000	300,000	300,000	300,000	300,000	300,000	1,500,000
Public Works Engineering Services Equipment (Materials Lab)	40,000	40,000	40,000	40,000	40,000	40,000	200,000
General Non-Construction - Sanitary Sewer	9,036,791	7,110,000	6,860,000	6,885,000	6,960,000	6,960,000	34,775,000
Sanitary Sewer - Non Construction	9,036,791	7,110,000	6,860,000	6,885,000	6,960,000	6,960,000	34,775,000
Public Art Allocation	1,162,498	94,000	140,000	168,000	115,000	88,000	605,000
Public Art Projects	1,162,498	94,000	140,000	168,000	115,000	88,000	605,000
Capital Program and Public Works Department Support Service Costs	1,899,000	2,202,000	2,618,000	2,303,000	1,848,000	1,995,000	10,966,000
Infrastructure Management System	49,000	49,000	50,000	52,000	54,000	56,000	261,000
Infrastructure Management System Software Update	4,000						
Allocations	1,952,000	2,251,000	2,668,000	2,355,000	1,902,000	2,051,000	11,227,000
City Hall Debt Service Fund	336,000	328,000	339,000	338,000	338,000	338,000	1,681,000
Transfers to Special Funds	336,000	328,000	339,000	338,000	338,000	338,000	1,681,000
Transfers Expense	336,000	328,000	339,000	338,000	338,000	338,000	1,681,000
Montague Sanitary Sewer Pump Station Reserve		2,000,000					2,000,000

Sanitary Sewer System

2021-2025 Proposed Capital Improvement Program Use of Funds (Combined)

	Estimated 2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	5-Year Total
Expense Reserves - Non Construction		2,000,000					2,000,000
Total Expenditures	106,833,701	39,728,000	43,437,000	39,246,000	32,865,000	35,137,000	190,413,000
Ending Fund Balance	13,900,531	11,192,531	4,355,531	1,009,531	2,744,531	2,007,531	2,007,531 *
TOTAL	120,734,232	50,920,531	47,792,531	40,255,531	35,609,531	37,144,531	192,420,531 *

* The 2020-2021 through 2023-2024 Ending Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer Capital Program

2021-2025 Proposed Capital Improvement Program

Detail of Ongoing Construction Projects

Cast Iron Pipe - Remove and Replace

CSA	Environmental and Utility Services	Initial Start Date	Ongoing
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing
Department	Public Works	Revised Start Date	
Location	City-wide	Revised End Date	
Council Districts	City-wide	Initial Project Budget	
Appropriation	A7472		

Description This project removes and replaces cast iron sewer pipes city-wide that are aging or corroded. It is estimated that between 38,000 to 40,000 feet of cast iron pipe will be replaced over the next five years.

Justification This project replaces and/or removes the existing aging or corroded cast iron sewer pipes with new pipes, which will improve flow, thereby reducing the frequency of maintenance activity performed by the Department of Transportation.

Notes Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

Major Cost Changes

	FY20 EST	FY21	FY22	FY23	FY24	FY25	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	50	50	50	50	50	50	250
Design	200	200	200	200	200	200	1,000
Bid & Award	20	20	20	20	20	20	100
Construction	6,388	4,730	4,730	4,730	4,730	4,730	23,650
Total	6,658	5,000	5,000	5,000	5,000	5,000	25,000

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	6,658	5,000	5,000	5,000	5,000	5,000	25,000
Total	6,658	5,000	5,000	5,000	5,000	5,000	25,000

Annual Operating Budget Impact (000s)							
Total							

Sanitary Sewer Capital Program

2021-2025 Proposed Capital Improvement Program

Detail of Ongoing Construction Projects

Condition Assessment Sewer Repairs

CSA	Environmental and Utility Services	Initial Start Date	Ongoing
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing
Department	Public Works	Revised Start Date	
Location	City-wide	Revised End Date	
Council Districts	City-wide	Initial Project Budget	
Appropriation	A7356		

Description This allocation funds the identification and repair of damaged pipes in the sanitary sewer system, and includes multiple projects each year as they are identified. Areas in which a sanitary sewer overflow would have high consequences will be the focus of these identify-and-repair contracts.

Justification This allocation is required due to the structural deterioration of aging sewers.

Notes Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

Major Cost Changes

	FY20 EST	FY21	FY22	FY23	FY24	FY25	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	4	4	4	4	4	4	20
Design	200	200	200	200	200	200	1,000
Bid & Award	10	10	10	10	10	10	50
Construction	10,453	5,786	5,786	5,786	5,786	5,786	28,930
Total	10,667	6,000	6,000	6,000	6,000	6,000	30,000

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	10,667	6,000	6,000	6,000	6,000	6,000	30,000
Total	10,667	6,000	6,000	6,000	6,000	6,000	30,000

Annual Operating Budget Impact (000s)							
Total							

Sanitary Sewer Capital Program

2021-2025 Proposed Capital Improvement Program

Detail of Ongoing Construction Projects

Immediate Replacement and Diversion Projects

CSA	Environmental and Utility Services	Initial Start Date	Ongoing
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing
Department	Public Works	Revised Start Date	
Location	City-wide	Revised End Date	
Council Districts	City-wide	Initial Project Budget	
Appropriation	A4272		

Description This allocation funds immediate needs that arise from Department of Transportation (DOT) maintenance and response activities. DOT identifies areas that require immediate sewer replacement as part of their maintenance activities and in response to sanitary sewer overflows. If replacement of the sewer is not feasible or cost effective, sewage may be rerouted (diverted) by installing a new or supplemental sewer along a different route. If these needs are not addressed in a timely manner, additional operations and maintenance costs will be incurred, and an increased possibility of sanitary sewer overflows will result.

Justification This allocation is needed to address immediate replacement and supplemental sewer needs.

Notes Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

Major Cost Changes

	FY20 EST	FY21	FY22	FY23	FY24	FY25	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	35	35	35	35	35	35	175
Design	572	400	400	400	400	400	2,000
Bid & Award	20	20	20	20	20	20	100
Construction	8,619	4,945	5,445	3,845	6,295	5,945	26,475
Post Construction					100	100	200
Total	9,246	5,400	5,900	4,300	6,850	6,500	28,950

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	8,243	5,000	5,500	4,000	6,500	6,500	27,500
Sanitary Sewer Connection Fee Fund (540)	1,003	400	400	300	350		1,450
Total	9,246	5,400	5,900	4,300	6,850	6,500	28,950

Annual Operating Budget Impact (000s)							
Total							

Sanitary Sewer Capital Program

2021-2025 Proposed Capital Improvement Program

Detail of Ongoing Construction Projects

Urgent Rehabilitation and Repair Projects

CSA	Environmental and Utility Services	Initial Start Date	Ongoing
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing
Department	Public Works	Revised Start Date	
Location	City-wide	Revised End Date	
Council Districts	City-wide	Initial Project Budget	
Appropriation	A4271		

Description This ongoing allocation is used to investigate, prioritize, and rehabilitate neighborhood sewers that exhibit structural deterioration, root intrusion, and/or blockages. The projects will be developed to respond to the Department of Transportation's ongoing maintenance activities and sewer overflow incidents that are urgent and cannot be programmed during the annual CIP preparation process.

Justification This allocation is required due to the structural deterioration of aging sewers.

Notes Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

Major Cost Changes

	FY20 EST	FY21	FY22	FY23	FY24	FY25	5 YEAR TOTAL
Expenditure Schedule (000s)							
Design	400	500	500	500	500	500	2,500
Bid & Award	40	40	40	40	40	40	200
Construction	10,924	6,450	6,450	6,450	4,450	4,450	28,250
Post Construction	10	10	10	10	10	10	50
Total	11,374	7,000	7,000	7,000	5,000	5,000	31,000

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	11,374	7,000	7,000	7,000	5,000	5,000	31,000
Total	11,374	7,000	7,000	7,000	5,000	5,000	31,000

Annual Operating Budget Impact (000s)							
Total							

Sanitary Sewer Capital Program
2021-2025 Proposed Capital Improvement Program

Detail of Ongoing Non-Construction Projects

Infrastructure - Sanitary Sewer Condition Assessment

CSA Environmental and Utility Services
CSA Outcome Reliable Utility Infrastructure
Department Public Works
Council Districts City-wide
Appropriation A6521

Description This allocation funds an ongoing condition assessment program to inspect and evaluate the condition of the existing pipelines and identify the needs for pipeline rehabilitation and/or replacement.

Notes Selected budget information is not provided due to the ongoing nature of this project.

	FY20 EST	FY21	FY22	FY23	FY24	FY25	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	3,359	3,200	3,200	3,200	3,200	3,200	16,000
Total	3,359	3,200	3,200	3,200	3,200	3,200	16,000

	FY20 EST	FY21	FY22	FY23	FY24	FY25	5 YEAR TOTAL
Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	3,359	3,200	3,200	3,200	3,200	3,200	16,000
Total	3,359	3,200	3,200	3,200	3,200	3,200	16,000

Sanitary Sewer Capital Program
2021-2025 Proposed Capital Improvement Program

Summary of Projects that Start After 2020-2021

Project Name	Fourth Major Interceptor, Phase VIIA	Initial Start Date	3rd Qtr. 2018
5-Yr CIP Budget	\$ 5,500,000	Initial End Date	2nd Qtr. 2020
Total Budget	\$ 5,500,000	Revised Start Date	3rd Qtr. 2021
Council Districts	3	Revised End Date	2nd Qtr. 2023
Description	This project will install approximately 7,200 linear feet of 66-inch reinforced concrete pipe. Completion of the Phase VIIA project will conclude capacity improvements for the Fourth Major Interceptor system between the intersections of North 5th Street and Commercial Street, and North 7th Street and Empire Street.		

Project Name	McKee Avenue Sanitary Sewer Improvement	Initial Start Date	3rd Qtr. 2022
5-Yr CIP Budget	\$ 1,500,000	Initial End Date	2nd Qtr. 2023
Total Budget	\$ 1,500,000	Revised Start Date	
Council Districts	5	Revised End Date	
Description	This project will install a weir at a manhole at the intersection of Capitol Avenue and McKee Road, and install approximately 710 linear feet of 15-inch pipe at McKee Road between Rough and Ready Road and Capitol Avenue.		

Project Name	Technology Drive Sanitary Sewer Improvement	Initial Start Date	3rd Qtr. 2021
5-Yr CIP Budget	\$ 2,500,000	Initial End Date	2nd Qtr. 2022
Total Budget	\$ 2,500,000	Revised Start Date	3rd Qtr. 2024
Council Districts	3	Revised End Date	2nd Qtr. 2025
Description	This project will upsize approximately 1,710 linear feet of 6- and 8-inch pipe with 10- and 15-inch pipe at Technology Drive from Skyport Drive to Airport Parkway.		

Sanitary Sewer Capital Program
2021-2025 Proposed Capital Improvement Program

Summary of Projects with Close-Out Costs Only in 2020-2021

Project Name	Bollinger Road - Moorpark Avenue - Williams Road Sanitary Sewer Improv	Initial Start Date	3rd Qtr. 2012
5-Yr CIP Budget	\$ 205,000	Initial End Date	2nd Qtr. 2015
Total Budget	\$ 14,010,414	Revised Start Date	
Council Districts	1	Revised End Date	4th Qtr. 2020
Description	The project includes the capacity upgrade of approximately 17,000 feet of sanitary sewer mains. The project will be completed in two phases. The first phase is at Moorpark Avenue from Lawrence Expressway to Williams Road and along Williams Road to Saratoga Avenue. The second phase is at Bollinger Road from Blaney Avenue to Lawrence Expressway.		

Sanitary Sewer Capital Program
2021-2025 Proposed Capital Improvement Program

Summary of Reserves

Project Name	Montague Sanitary Sewer Pump Station Reserve	Initial Start Date	N/A
5-Yr CIP Budget	\$ 2,000,000	Initial End Date	N/A
Total Budget	\$ 2,000,000	Revised Start Date	
Council Districts	4	Revised End Date	
Description	This reserve sets aside funding to rehabilitate and/or upgrade the pump station located on First Street and Montague Expressway. Due to real estate-related uncertainties, construction is currently delayed.		
