

Table of Contents

Five Year Capital Improvement Program (CIP)

Introduction Letter	235
Resolution Approving 2022 CIP	236
Funding Source and Fund Summary	237
Townwide Ongoing Operating Costs by Fund	238
General Fund	239
General Long Term Planning Fund	242
Transportation Fund	256
Transportation Capital Fund	266
Conservation Trust Fund	282
Parks & Recreation Capital Fund	284
Police Capital Fund	287
Water Fund	289
Water Resources Fund	298
Stormwater Fund	309
Wastewater Fund	315
Fleet Fund	324
Golf Fund	336
Community Center Fund	341
Lodging Tax Fund	345

LETTER OF INTRODUCTION FOR THE FIVE YEAR CAPITAL IMPROVEMENT PROGRAM

September 7, 2021

Honorable Mayor and Members of the Town Council,

Hereby submitted is the Five Year Capital Improvement Program (CIP) for the Town of Castle Rock, Colorado for the years 2022 through 2026. The 2022 Budget appropriates \$119,975,494 for Capital Improvement Program projects. The Funding Source information in the following pages is intended to identify the revenue that is planned to pay for the capital projects. While additional revenue is anticipated to be received each year, this information identifies only known sources of revenue at the time of development and what is necessary to fund the Capital Improvement Program.

The CIP summarizes all major capital expenditures to be made over the next five years. This budget contains a summary of revenue sources and CIP costs by fund and year in which the revenues and costs are anticipated. In order to be included in the CIP, the project must meet the following guidelines:

- Individual project costs are expected to be over \$25,000
- The resulting project has a useful life of more than one year
- The project results in the addition of a fixed asset, or extends the useful life of an existing asset or is a major software purchase
- The Town must have full ownership, or be a significant holder in a joint venture asset. For example, software that is licensed by the Town and owned by the vendor is not considered a capital asset of the Town.

During the preparation process, staff identified what would be necessary to meet existing levels of service to the community and which projects could reasonably be accomplished within each year, within the financial and staff limitations of the Town. Contractual obligations and/or needs were considered in setting the priorities.

Capital improvements are funded through a variety of sources including the use of reserves, impact fees, debt financing, grants, developer contributions, building use taxes and other operating revenues. All available current and future resources were considered when identifying funding sources for the identified capital improvements. For example, the estimated available reserve balance was calculated and shown as a funding source, as well as estimated impact fees, building use taxes, and other revenue sources. The CIP costs projected meet, but do not exceed, the limitations of those funding sources.

Sincerely,



David L. Corliss
Town Manager

RESOLUTION NO. 2021-__

A RESOLUTION APPROVING THE 2022-2026 FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM FOR THE TOWN OF CASTLE ROCK

WHEREAS, the Town Manager, in accordance with Sections 9-5 and 9-8 of the Town Charter, has prepared the 2022-2026 Five-Year Capital Improvement Program (the “Program”) for the Town of Castle Rock (the “Town”), and

WHEREAS, the Program was discussed at the September 7, 2021, Town Council meeting and considered separately at a public hearing before the Town Council on September 21, 2021 as part of the 2022 Budget; and

WHEREAS, the Town Council finds and determines that the Program includes: (i) a clear general summary of its contents; (ii) a list of all capital improvements which are proposed to be undertaken during the five fiscal years next ensuing, in order of recommended priority, with appropriate supporting information as to the necessity for the improvement; (iii) cost estimates, method of financing and recommended schedules for each such improvement; and (iv) the estimated annual cost of operating and maintaining the facilities to be constructed or acquired, and the proposed method of financing such costs.

NOW, THEREFORE BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF CASTLE ROCK AS FOLLOWS:

Section 1. Approval. The 2022-2026 Five-Year Capital Improvement Program for the Town of Castle Rock in the form attached as *Exhibit 1* is hereby approved.

PASSED, APPROVED AND ADOPTED this 7th day of December, 2021, by the Town Council of the Town of Castle Rock, Colorado, on first and final reading by a vote of ____ for and ____ against.

ATTEST:

TOWN OF CASTLE ROCK

Lisa Anderson, Town Clerk

Jason Gray, Mayor

Approved as to form:

Approved as to content:

Michael J. Hyman, Town Attorney

Trish Muller, CPA, Director of Finance

2022 - 2026 CAPITAL IMPROVEMENT PROGRAM SUMMARY - ALL FUNDS

TOTAL CIP EXPENDITURES BY FUND AND YEAR

Fund	2022	2023	2024	2025	2026	Total
General Fund	\$ 4,914,116	\$ 738,750	\$ 775,700	\$ -	\$ 814,485	\$ 7,243,051
General Long Term Planning	1,674,736	1,190,000	4,094,291	1,137,500	734,600	8,831,127
Transportation Fund	1,115,950	1,912,000	919,400	915,700	1,374,200	6,237,250
Transportation Capital Fund	42,614,800	17,933,000	13,972,210	8,449,000	8,487,840	91,456,850
Conservation Trust Fund	1,000,000	1,000,000	1,000,000	1,000,000	500,000	4,500,000
Parks and Rec Capital Fund	450,000	4,500,000	2,500,000	15,000,000	-	22,450,000
Police Capital	500,000	-	-	-	-	500,000
Water Fund	12,219,892	13,715,858	9,832,954	7,773,854	3,502,988	47,045,546
Water Resource Fund	45,624,374	17,256,450	13,856,121	10,358,763	9,812,241	96,907,949
Stormwater Fund	2,519,207	4,495,156	3,746,452	2,188,182	1,460,258	14,409,255
Wastewater Fund	2,770,379	5,468,324	6,695,583	6,596,561	3,401,339	24,932,186
Fleet Fund	3,519,440	3,279,545	2,887,295	2,791,631	3,114,447	15,592,358
Golf Fund	541,500	508,185	46,491	-	-	1,096,176
Community Center Fund	350,000	150,000	310,000	195,000	350,000	1,355,000
Lodging Tax Fund	161,100	78,100	40,700	-	25,000	304,900
Total by Year	\$ 119,975,494	\$ 72,225,368	\$ 60,677,197	\$ 56,406,191	\$ 33,577,398	\$ 342,861,648

FUNDING SOURCE SUMMARY

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.

Source	2022	2023	2024	2025	2026	Total
Sales Tax	\$ 1,956,116	\$ 888,750	\$ 1,085,700	\$ 195,000	\$ 1,164,485	\$ 5,290,051
Residential Building Use Tax	9,192,150	1,724,000	1,278,800	1,017,500	1,214,600	14,427,050
Road and Bridge Tax	751,200	1,273,000	839,400	835,700	894,200	4,593,500
Colorado Lottery Funds	166,250	166,250	1,000,000	1,000,000	500,000	2,832,500
Impact Fees	31,127,000	22,433,000	16,472,210	23,449,000	8,487,840	101,969,050
Metered Water Sales	6,236,892	7,905,858	5,816,454	6,673,854	3,022,988	29,656,046
System Development Fees	22,133,279	15,299,697	10,973,383	6,886,055	3,941,114	59,233,527
Water Resources Fees	30,634,781	11,859,709	9,563,598	7,220,847	6,590,864	65,869,800
Stormwater Charges	1,408,521	1,122,370	1,132,092	1,450,832	1,220,521	6,334,336
Wastewater Service Charges	2,720,379	4,748,154	6,645,583	4,685,772	3,401,339	22,201,227
Vehicle Repl. Contributions	2,296,696	2,996,849	2,642,700	2,554,385	2,853,895	13,344,525
Vehicle Salvage	202,747	282,696	244,595	237,246	260,552	1,227,836
Transfers from Other Funds	1,019,997	-	-	-	-	1,019,997
Transfers In (Sales Tax)	684,136	105,000	2,895,491	200,000	-	3,884,627
Developer Contributions	1,308,000	-	-	-	-	1,308,000
Federal Grant	3,601,000	-	-	-	-	3,601,000
County Contribution	1,000,000	-	-	-	-	1,000,000
Douglas County Shareback	833,750	833,750	-	-	-	1,667,500
Charges for Service	541,500	508,185	46,491	-	-	1,096,176
GOCO Grant	2,000,000	-	-	-	-	2,000,000
Lodging Tax	161,100	78,100	40,700	-	25,000	304,900
Total by Year	\$ 119,975,494	\$ 72,225,368	\$ 60,677,197	\$ 56,406,191	\$ 33,577,398	\$ 342,861,648

2022-2026 CAPITAL IMPROVEMENT PROGRAM

**TOWNWIDE
SUMMARY OF ESTIMATED ONGOING OPERATING COSTS
BY FUND ⁽¹⁾**

Department / Division	Project Name	2022	2023	2024	2025	2026
Transportation Fund						
	Traffic Signal Program	\$ 2,600	\$ 2,600	\$ 2,600	\$ 2,600	\$ 2,600
Water Fund						
	Pump & Distribution System Upgrades	-	-	-	30,074	30,074
Water Resources Fund						
	WISE Project	-	-	-	-	5,200,000
	Chatfield Reallocation Project	270,000	270,000	270,000	270,000	270,000
	PCWPF Expansion	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000
	Castle Rock Reservoir	-	-	200,000	200,000	200,000
	Cherry Creek Basin Infrastructure	120,000	120,000	120,000	120,000	120,000
Wastewater Fund						
	PCWRA Projects	270,015	73,465	73,106	75,845	75,845
Total Ongoing Operating Expenditures by Year		\$ 1,762,615	\$ 1,566,065	\$ 1,765,706	\$ 1,798,519	\$ 6,998,519

NOTE: New vehicle additions to the fleet are incorporated and paid for in each individual department. Operating costs associated with a vehicle addition on average are \$986 for repair and maintenance and \$1,200 for fuel annually

(1) Existing Capital Improvement Programs included above reflect projects with known ongoing operating costs

**2022-2026 CAPITAL IMPROVEMENT PROGRAM
GENERAL FUND**

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Annual Trail Improvements	\$ 4,868,000	\$ 738,750	\$ 775,700	\$ -	\$ 814,485	\$ 7,196,935
LIDAR Equipment	46,116	-	-	-	-	46,116
Total Expenditures by Year	\$ 4,914,116	\$ 738,750	\$ 775,700	\$ -	\$ 814,485	\$ 7,243,051

Project Funding Sources	2022	2023	2024	2025	2026	Total
Sales Tax	\$ 1,606,116	\$ 738,750	\$ 775,700	\$ -	\$ 814,485	\$ 3,935,051
Developer Contributions	1,308,000	-	-	-	-	1,308,000
GOCO Grant	2,000,000	-	-	-	-	2,000,000
Total Funding Sources by Year	\$ 4,914,116	\$ 738,750	\$ 775,700	\$ -	\$ 814,485	\$ 7,243,051

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Legacy Trail

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Annual Trail Improvements

Project Number: 75-14		
Contact: Jeff Smullen, Assistant Director of Parks & Recreation	5 Year Historical Total	\$ 4,078,007
Department: Parks & Recreation Department	2022-2026 Total	7,196,935
Category: Parks/Trails	CIP Project Total (2017-2026):	\$ 11,274,942
Type: Replacement		
Useful Life: 50 years		

Description and Justification

Annual trail improvements are funded by sales tax, a portion of which was enacted by voters to fund trail improvements throughout Castle Rock. As a result, the trails account receives an annual transfer from a portion of sales tax through the Town’s Transportation Fund in addition to outside contributions, such as grant support when available. Public Works and the Parks and Recreation Department have worked to evaluate all potential projects and create a capital plan that addresses priorities for both sidewalks and trails.

Planned projects include the construction of the Colorado Front Range Trail through Castle Rock in 2022 with sales tax, developer contributions, and grant support through a Connect Initiative Grant through Great Outdoors Colorado (GOCO). In 2023, trails will be completed from Cobblestone Ranch to Macanta Regional Park. In 2024, design will begin on the underpass to Industrial Tributary Trail from Philip S. Miller Park under the railroad to East Plum Creek Trail downtown. Additionally, the trailhead parking lot and trail connection at the Central Service Center to East Plum Creek Trail and move the existing Meadows trailhead parking lot at East Plum Creek Trail to the north side of Meadows Parkway. As well as, adding additional trail access points from the parking lot. 2026 starts the construction on the Industrial Tributary Trail and request matching grant funds for the project.

Funding Note: GOCO funds will be received after the project is complete. The Front Range Trail extension is planned to be constructed in 2022 with the awarded GOCO grant funds received upon project completion, scheduled in 2022. Project costs will be funded upfront with developer contributions and sales tax. The sales tax portion will then be reimbursed with the GOCO grant funds.

Expenditures	2022	2023	2024	2025	2026	Total
Construction Contracts	\$ -	\$ 738,750	\$ 775,700	\$ -	\$ 814,485	\$ 2,328,935
Construction of Front Range Trails	4,868,000	-	-	-	-	4,868,000
Total Expenditures	\$ 4,868,000	\$ 738,750	\$ 775,700	\$ -	\$ 814,485	\$ 7,196,935

Funding Sources	2022	2023	2024	2025	2026	Total
Sales Tax	\$ 1,560,000	\$ 738,750	\$ 775,700	\$ -	\$ 814,485	\$ 3,888,935
Developer Contributions	1,308,000	-	-	-	-	1,308,000
GOCO Grant	2,000,000	-	-	-	-	2,000,000
Total Funding Sources	\$ 4,868,000	\$ 738,750	\$ 775,700	\$ -	\$ 814,485	\$ 7,196,935

Operational Impact

Costs to maintain the addition to the trail will be minimal and can be accommodated within current budgeted resources.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

LIDAR Equipment

Project Number: 70-30
 Contact: Jack Cauley, Police Cheif
 Department: Police Department
 Category: Technology
 Type: Replacement
 Useful Life: 7 years

5 Year Historical Total	\$	123,133
2022-2026 Total		46,116
CIP Project Total (2017-2026):	\$	169,249

Description and Justification

In 2022, the Castle Rock Police Department is seeking to replace the Light Detection and Ranging (LIDAR) equipment (14 hand held devices) utilized by the Patrol Officers and the Traffic Unit Officers. One device was purchased in 2001 (21 years old by 2022), five were purchased in 2011 (11 years old by 2022), and eight devices were purchased in 2014 (8 years old by 2022). The normal operating life of these devices is five to seven years.

The Castle Rock Police Department is no longer installing permanent mounted radar devices in the patrol vehicles. The handheld LIDAR device use will be the only devices used for speed enforcement. Fourteen devices will allow for all officers working on shift to have access to a LIDAR device. The current cost for the Kustom ProLaser IV is \$3,294 per unit.

The Castle Rock Police Department is requesting \$46,116 in the 2022 year budget for the purchase.

Expenditures	2022	2023	2024	2025	2026	Total
Machinery & Equipment	\$ 46,116	\$ -	\$ -	\$ -	\$ -	\$ 46,116

Total Expenditures	\$ 46,116	\$ -	\$ -	\$ -	\$ -	\$ 46,116
---------------------------	------------------	-------------	-------------	-------------	-------------	------------------

Funding Sources	2022	2023	2024	2025	2026	Total
Sales Tax	\$ 46,116	\$ -	\$ -	\$ -	\$ -	\$ 46,116

Total Funding Sources	\$ 46,116	\$ -	\$ -	\$ -	\$ -	\$ 46,116
------------------------------	------------------	-------------	-------------	-------------	-------------	------------------

Operational Impact

No operational impact for this purchase.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

GENERAL LONG-TERM PLANNING FUND

TOWN MANAGER

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Police						
Police Depart. Tyler Tech Records Software	\$ -	\$ 120,000	\$ -	\$ -	\$ -	\$ 120,000
License Plate Readers	25,000	-	-	-	-	25,000
Police Depart. Less Lethal Launchers	50,000	50,000	50,000	-	-	150,000
Police Depart. Radio Replacement	-	-	1,100,000	-	-	1,100,000
Fire						
Emergency Medical Services Equipment	684,136	-	295,491	-	-	979,627
Unmanned Aerial Vehicle Replacement	30,000	-	-	30,000	-	60,000
Thermal Imager Cameras (TIC)	-	105,000	-	-	-	105,000
Fire Depart. Radio Replacement	-	-	1,500,000	-	-	1,500,000
Automated External Defibrillator Replac.	-	-	-	200,000	-	200,000
Parks						
Synthetic Turf Replacement/Concrete	331,000	345,000	777,000	629,000	438,000	2,520,000
Security Cameras for Parks	110,000	-	-	-	-	110,000
DoIT						
Network Devices	292,600	532,000	286,800	238,500	256,600	1,606,500
Server Replacement	152,000	38,000	85,000	40,000	40,000	355,000
Total Expenditures by Year	\$ 1,674,736	\$ 1,190,000	\$ 4,094,291	\$ 1,137,500	\$ 734,600	\$ 8,831,127

Project Funding Sources	2022	2023	2024	2025	2026	Total
Residential Bldg Use Tax	\$ 990,600	\$ 1,085,000	\$ 1,198,800	\$ 937,500	\$ 734,600	\$ 4,946,500
Transfers In (Sales Tax)	\$ 684,136	105,000	2,895,491	200,000	-	3,884,627
Total Funding Sources by Year	\$ 1,674,736	\$ 1,190,000	\$ 4,094,291	\$ 1,137,500	\$ 734,600	\$ 8,831,127

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Fire demonstration during tour

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **Police Dept. Tyler Tech Records Software**

Project Number: 70-43

Contact: Jack Cauley, Police Chief

Department: Police Department

Category: Technology

Type: Replacement

Useful Life: 10 Years

5 Year Historical Total \$ -

2022-2026 Total 120,000

CIP Project Total (2017-2026): \$ 120,000

Description and Justification

In 2023, the Castle Rock Police Department seeks to upgrade its Records Unit computer software to New World Enterprise Records. Tyler Technologies provides the current software. The upgrade will provide increased function, more efficiency, and needed advances in the processes of merging reports, sending reports, tracking changes, and providing and protecting data. The changes in technology in the Records Unit help provide increased customer service to citizens, other agencies, and internal employees. The current estimate for this upgrade is \$120,000; however, this amount may change if additional features or costs are added or updated.

The upgrade to this software program is intended to help provide the fastest and best customer service to citizens' requested copies of reports, officers and staff needing reports sent to the court, detectives using the data for investigations, and assist in all other staff with needs to utilize the records information.

Since 2016 records requests have increased from 3,451 to 6,125 in 2020. The software upgrade will help to effectively manage the increase number and maintain the required short timeframe to complete the requests.

Expenditures	2022	2023	2024	2025	2026	Total
Computer Software	\$ -	\$ 120,000	\$ -	\$ -	\$ -	\$ 120,000

Total Expenditures	\$ -	\$ 120,000	\$ -	\$ -	\$ -	\$ 120,000
---------------------------	-------------	-------------------	-------------	-------------	-------------	-------------------

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Bldg Use Tax	\$ -	\$ 120,000	\$ -	\$ -	\$ -	\$ 120,000

Total Funding Sources	\$ -	\$ 120,000	\$ -	\$ -	\$ -	\$ 120,000
------------------------------	-------------	-------------------	-------------	-------------	-------------	-------------------

Operational Impact

There is an increase in software maintenance expected, but amount at this time is unknown.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

License Plate Readers

Project Number: 70-30
 Contact: Jack Cauley, Police Chief
 Department: Police Department
 Category: Equipment
 Type: Upgrade
 Useful Life: N/A- subscription

5 Year Historical Total	\$	-
2022-2026 Total		25,000
CIP Project Total (2017-2026):	\$	25,000

Description and Justification

Flock Safety License Plate Readers (LPRs) are an effective crime fighting tool used by hundreds of police agencies across the country. Locally, agencies such as the Douglas County Sheriff's Office and Parker Police currently use LPR technology. These stationary LPRs are permanently affixed to a pole. The license plate reader scans plates and instantaneously compares each plate to a "Hot List" database of suspect license plates. If there is a match, the LPR broadcasts visual and audible alerts including a color photo of the suspect vehicle and its license plate.

During the last few years, Castle Rock has experienced an increase in the number of car thefts, thefts from cars, and retail thefts. Many of the suspects in these cases reside outside of the Castle Rock area and use stolen cars as their mode of transportation. LPRs would provide officers and investigators with an innovative tool to help solve these crimes and perhaps even prevent some of them from happening in the first place. Individuals involved in organized retail crime target retail centers. Despite best efforts to prevent these type of crimes from occurring, individuals from outside our community travel to Castle Rock to commit crimes at our retail centers and in our neighborhoods. LPRs will help officers identify stolen cars that are being driven by individuals and provide officers the necessary information to contact these individuals and take the appropriate action. Other uses include identification of wanted persons, narcotics interdiction, location of missing persons, and parking enforcement.

This request is for an additional subscription of 10 stationary LPRs at a cost of \$2,500 per unit (\$25,000).

Expenditures	2022	2023	2024	2025	2026	Total
Equipment	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000
Total Expenditures	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Bldg Use Tax	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000
Total Funding Sources	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Operational Impact

Additional annual costs \$25,000 are built into the balanced financial plan. Total costs for 50 license plate readers is \$50,000 per year funded out of the Police General Fund budget.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Police Depart. Less Lethal Launchers

Project Number: 70-30
 Contact: Jack Cauley, Police Chief
 Department: Police Department
 Category: Equipment
 Type: Replacement
 Useful Life: 10 years

5 Year Historical Total	\$	-
2022-2026 Total		150,000
CIP Project Total (2017-2026):	\$	150,000

Description and Justification

Less-lethal control options and tools are used for the express purpose of reducing the likelihood of serious injury or death during police response to resistance. This has become exceedingly important as police are managing highly complex and dynamic physical scenarios with high expectations for subject protection. The Castle Rock Police Department (CRPD) utilizes a variety of less-lethal tools to include specialty impact munitions. The 40mm launcher is one of the more effective options. The 40mm launcher provides officers the unique ability to maintain significant reactionary gaps and utilize cover. The ability to deploy from a greater distance increases safety to both officers and suspects. CRPD is currently phasing out the previously used 12GA less-lethal shotgun with the objective of the to equip each patrol vehicle with a 40MM launcher over a three-year period. The purchase of 10 launchers per year will allow us to achieve this. The new launchers present a number of advantages over existing equipment.

Expenditures	2022	2023	2024	2025	2026	Total
Equipment	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ 150,000
Total Expenditures	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ 150,000

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Bldg Use Tax	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ 150,000
Total Funding Sources	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ 150,000

Operational Impact

There are no ongoing operational costs.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Emergency Medical Services Equipment

Project Number:	70-30		5 Year Historical Total*	\$	-
Contact:	Norris Croom, Fire Chief				
Department:	Fire Department		2022-2026 Total		979,627
Category:	Equipment		CIP Project Total (2017-2026):		\$ 979,627
Type:	Replacement		<i>* Includes all machinery and equipment purchases</i>		
Useful Life:	7-10 years				

Description and Justification

These requested items include Emergency Medical Services equipment required to provide emergency care. The cardiac monitors have a 10 year useful life, the prams have a 7 year useful life, as do the stair chairs. The prams and stair chairs are used on medic units, while the cardiac monitors are on both medic units and engines/aerials as part of the Advanced Life Support (ALS) system.

This aligns with Council established Strategic Priorities by ensuring outstanding public safety, it allows us to maintain our current level of service, and it addresses the community survey need of ensuring public safety.

Expenditures	2022	2023	2024	2025	2026	Total
LifePak Cardiac Monitors	\$ 684,136	\$ -	\$ -	\$ -	\$ -	\$ 684,136
Powered Ambulance Prams	-	-	211,065	-	-	211,065
Powered Stair Chairs	-	-	84,426	-	-	84,426
Total Expenditures	\$ 684,136	\$ -	\$ 295,491	\$ -	\$ -	\$ 979,627

Funding Sources	2022	2023	2024	2025	2026	Total
Transfers In (Sales Tax)	\$ 684,136	\$ -	\$ 295,491	\$ -	\$ -	\$ 979,627
Total Funding Sources	\$ 684,136	\$ -	\$ 295,491	\$ -	\$ -	\$ 979,627

Operational Impact

Cost to run devices is built into the annual budget and the replacement of these devices on a regular basis will save money and maintain productivity by preventing critical failures.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Unmanned Aerial Vehicle Replacement

Project Number: 70-30

Contact: Brian Dimock, Fire Marshal

Department: Fire Department

Category: Equipment

Type: Replacement

Useful Life: 3 Years

5 Year Historical Total* \$ -

2022-2026 Total 60,000

CIP Project Total (2017-2026): \$ 1,954,018

** Includes all machinery and equipment purchases*

Description and Justification

Since 2016, the fire department has been utilizing unmanned aerial vehicles (UAV's), better known as drones, for public safety. Current UAV's have been used to fly over fires to give another perspective of how the fire is moving, and to document investigation scenes for fire and law enforcement operations. UAV's are used for documentation of construction sites and inspections and there are numerous other purposes where UAV use is beneficial. This request is to allow older UAV's to be cycled to reserve status, and maintain all UAV's for their useful life. UAV's are regulated by the Federal Aviation Administration (FAA) as are the commercial pilots that fly them.

UAV's technology changes quickly. The market is very volatile with new products getting introduced every year or sooner, as well as new requirements set forth by the FAA. As quickly as the technology comes out, the FAA attempts to interface with these improvements and impose safety requirements. Some of these may have to be implemented on the current UAV's that we have.

This aligns with Council established Strategic Priorities by ensuring outstanding public safety. Keeping our UAV's up-to-date provides the ability to use this equipment to its fullest capabilities and reduce the possibility of a firefighter getting hurt on a fire or providing the ability to search large areas in a matter of minutes versus hours for a lost or injured citizen. Although this can currently be done, the manufacturers of these UAV's are also dropping support of the outdated UAV's to keep operating costs down and providing service to the newer models. By being able to purchase newer UAV's means that we are able to continue to provide the level of service that not only affects our external customers, but our internal as well when needed.

The only alternative to this is allow all the equipment that we have purchased to become completely obsolete and discontinue use when it is no longer supported by the manufacturer. The operational impact of this request if not approved is the potential reduction of providing the level of service to not only the community, but the other Town departments that utilize this service.

Expenditures	2022	2023	2024	2025	2026	Total
UAV Replacements	\$ 30,000	\$ -	\$ -	\$ 30,000	\$ -	\$ 60,000
Total Expenditures	\$ 30,000	\$ -	\$ -	\$ 30,000	\$ -	\$ 60,000

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Bldg Use Tax	\$ 30,000	\$ -	\$ -	\$ 30,000		\$ 60,000
Total Funding Sources	\$ 30,000	\$ -	\$ -	\$ 30,000	\$ -	\$ 60,000

Operational Impact

Annual operating costs are already included in the annual budget under operating supplies.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Thermal Imager Cameras (TIC)

Project Number: 70-30		
Contact: Jim Gile, Division Chief Logistics	5 Year Historical Total*	\$ -
Department: Fire Department	2022-2026 Total	<u>105,000</u>
Category: Equipment	CIP Project Total (2017-2026):	\$ 105,000
Type: Replacement	<i>* Includes all machinery and equipment purchases</i>	
Useful Life: 10 years		

Description and Justification

Thermal Imaging Camera's (TIC's) are used by fire department personnel for many different uses. Some of these include, firefighting operations, search and rescue, gas leak detection, water flow detection and more. Currently the TIC's on each apparatus and medic unit are approaching 15 years of use. As such, they are becoming obsolete and difficult to repair. In addition the technology with the cameras has advanced, thus allowing for greater use, accuracy and reliability. Establishing a replacement fund and schedule for these will aid in the replacement of this necessary equipment.

Expenditures	2022	2023	2024	2025	2026	Total
Thermal Imager Camera's	\$ -	\$ 105,000	\$ -	\$ -	\$ -	\$ 105,000
Total Expenditures	\$ -	\$ 105,000	\$ -	\$ -	\$ -	\$ 105,000

Funding Sources	2022	2023	2024	2025	2026	Total
Transfers In (Sales Tax)	\$ -	\$ 105,000	\$ -	\$ -	\$ -	\$ 105,000
Total Funding Sources	\$ -	\$ 105,000	\$ -	\$ -	\$ -	\$ 105,000

Operational Impact

Cost to run these devices is built into the annual budget and the replacement of these devices on a regular basis will save money and maintain productivity by preventing critical failures.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Fire Depart. Radio Replacement

Project Number: 70-30
 Contact: Norris Croom, Fire Chief
 Department: Fire Department
 Category: Equipment
 Type: Replacement
 Useful Life: 10 Years

5 Year Historical Total* \$ -
 2022-2026 Total 1,500,000
CIP Project Total (2017-2026): \$ 1,500,000
** Includes all machinery and equipment purchases*

Description and Justification

This project is planned to accommodate replacement of mobile and portable radios. As technology continues to advance, the life span of the Fire Department's radios has decreased from 15 years to 10 years. In order to ensure operational stability and continuity of systems, these radios need to be replaced all at one time as opposed to a phased process. This plan ensures that items such as radio batteries, carrying cases, microphones, cabling systems, and capabilities are maintained as opposed to having variations of each.

These are a key component in being able to provide service as we have to be able to communicate with dispatch as well as other units to be able to respond to calls.

This request aligns with Council established Strategic Priorities by ensuring outstanding public safety and allows the Fire department to maintain the current level of service.

These radios (approx. 200 total) are scheduled for replacement in 2024 at an estimated cost of \$1,500,000 and will be paid for by transfers in from the general fund.

Expenditures	2022	2023	2024	2025	2026	Total
Radio Replacement	\$ -	\$ -	\$ 1,500,000	\$ -	\$ -	\$ 1,500,000
Total Expenditures	\$ -	\$ -	\$ 1,500,000	\$ -	\$ -	\$ 1,500,000

Funding Sources	2022	2023	2024	2025	2026	Total
Transfers In (Sales Tax)	\$ -	\$ -	\$ 1,500,000	\$ -	\$ -	\$ 1,500,000
Total Funding Sources	\$ -	\$ -	\$ 1,500,000	\$ -	\$ -	\$ 1,500,000

Operational Impact

Cost to run devices is built into the annual budget and the replacement of these devices on a regular basis will save money and maintain productivity by preventing critical failures.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **Automated External Defibrillator Replac.**

Project Number:	70-30		5 Year Historical Total*	\$	-
Contact:	Norris Croom, Fire Chief				
Department:	Fire Department		2022-2026 Total		200,000
Category:	Equipment		CIP Project Total (2017-2026):		\$ 200,000
Type:	Replacement		<i>* Includes all machinery and equipment purchases</i>		
Useful Life:	10 Years				

Description and Justification

These requested items include all Town Automated External Defibrillators (AED) in facilities and vehicles to provide emergency care. These have a 10 year useful life, and are part of our community AED program. While budgeted in the fire and rescue department budget, these are for all departments across the town.

This aligns with Council established Strategic Priorities by ensuring outstanding public safety, it allows us to maintain our current level of service, and it addresses the community survey need of ensuring public safety.

Expenditures	2022	2023	2024	2025	2026	Total
Automated External Defibrillators	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ 200,000
Total Expenditures	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ 200,000

Funding Sources	2022	2023	2024	2025	2026	Total
Transfers In (Sales Tax)	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ 200,000
Total Funding Sources	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ 200,000

Operational Impact

Cost to run devices is built into the annual budget and the replacement of these devices on a regular basis will save money and maintain productivity by preventing critical failures.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Synthetic Turf Replacement/Concrete

Project Number: 78-47		
Contact: Jeff Smullen, Assistant Director of Parks & Recreation	5 Year Historical Total	\$ 380,250
Department: Parks & Recreation Department	2022-2026 Total	<u>2,520,000</u>
Category: Parks/Trails	CIP Project Total (2017-2026):	\$ 2,900,250
Type: Replacement		
Useful Life: 10 Years		

Description and Justification

The Parks and Recreation Department requests funding for synthetic turf replacement at the following locations:

- 2022 for Gemstone Park and Metzler Ranch park concrete and Native Legend Trail
- 2023 for Matney Park, Meadows Trail - Prairie Hawk and Melting Snow Way
- 2024 for Rhyolite Regional Park and MAC Indoor turf and Woodlands Loop asphalt to concrete replacement
- 2025 for Bison Park
- 2026 for Phillip S. Miller Park

Town staff is working with the Douglas County School District on possible funding for Bison Park in 2025. Turf on field sites is nearing the end of the expected life and will need to be replaced in order to maintain proper safety levels, and to maintain the functional and aesthetic quality of these parks. Synthetic turf surfaces are regularly evaluated for safety and actual project timing may change based on this ongoing evaluation.

Expenditures	2022	2023	2024	2025	2026	Total
Turf Replacement	\$ 309,000	\$ 295,000	\$ 612,000	\$ 629,000	\$ 438,000	\$ 2,283,000
Concrete Replacement	22,000	50,000	165,000	-	-	237,000
Total Expenditures	\$ 331,000	\$ 345,000	\$ 777,000	\$ 629,000	\$ 438,000	\$ 2,520,000

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Bldg Use Tax	\$ 331,000	\$ 345,000	\$ 777,000	\$ 629,000	\$ 438,000	\$ 2,520,000
Total Funding Sources	\$ 331,000	\$ 345,000	\$ 777,000	\$ 629,000	\$ 438,000	\$ 2,520,000

Operational Impact

Regular replacement of turf and concrete maintains levels of service and improves the look, functionality, and safety of these locations.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Security Cameras for Parks

Project Number: 78-47

Contact: Jeff Smullen, Assistant Director of Parks & Recreation

Department: Parks & Recreation Department

Category: Parks/Trails

Type: New

Useful Life: 15 Years

5 Year Historical Total \$ -

2022-2026 Total 110,000

CIP Project Total (2017-2026): \$ 110,000

Description and Justification

This request is to install security cameras in Town Parks. The Parks and Police Department will work together to identify proper locations to ensure the safety of park users. To install cameras at 20 Town parks, \$100,000 is requested. Typical costs of each camera are between \$2,000-5,000. This will maintain and improve levels of service by providing additional monitoring and safety of parks users, provide for faster response time in the event of an emergency, and allow for more efficient prosecution of anyone committing a crime in Town parks.

Expenditures	2022	2023	2024	2025	2026	Total
Security Cameras for Parks	\$ 110,000	\$ -	\$ -	\$ -	\$ -	110,000
Total Expenditures	\$ 110,000	\$ -	\$ -	\$ -	\$ -	110,000

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Bldg Use Tax	\$ 110,000	\$ -	\$ -	\$ -	\$ -	110,000
Total Funding Sources	\$ 110,000	\$ -	\$ -	\$ -	\$ -	110,000

Operational Impact

Cost to maintain the cameras are not yet known.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Network Devices

Project Number: 76-80		
Contact: Jennifer Jaeger, Chief Technology Officer	5 Year Historical Total	\$ 368,222
Department: Division of Innovation and Technology	2022-2026 Total	<u>1,606,500</u>
Category: Technology	CIP Project Total (2017-2026):	\$ 1,974,722
Type: Replacement		
Useful Life: 5 Years		

Description and Justification

This project will replace a portion of networking and wireless devices including any that are five years or older. Network devices are an essential requirement to deliver data between computers and servers. If a network device fails, data cannot be delivered, and employee productivity is greatly reduced. These devices also provide Wi-Fi in all facilities, video upload for the in-car and body cameras for the Police Department, and connectivity to remote locations (swimming pools, Red Hawk). Maintaining these devices is very important for daily work of almost every Town employee. The Town is no longer able to buy support for some devices, and the likelihood of failure increases with age. Proactive replacement of the devices will avoid excessive downtime from an unscheduled failure while allowing staff to find and buy the best replacement option. Network devices cost are expected to grow at an average annual rate of 27 percent and are budgeted below accordingly.

Expenditures	2022	2023	2024	2025	2026	Total
Network Devices	\$ 292,600	\$ 532,000	\$ 286,800	\$ 238,500	\$ 256,600	\$ 1,606,500

Total Expenditures	\$ 292,600	\$ 532,000	\$ 286,800	\$ 238,500	\$ 256,600	\$ 1,606,500
---------------------------	-------------------	-------------------	-------------------	-------------------	-------------------	---------------------

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Bldg Use Tax	\$ 292,600	\$ 532,000	\$ 286,800	\$ 238,500	\$ 256,600	\$ 1,606,500

Total Funding Sources	\$ 292,600	\$ 532,000	\$ 286,800	\$ 238,500	\$ 256,600	\$ 1,606,500
------------------------------	-------------------	-------------------	-------------------	-------------------	-------------------	---------------------

Operational Impact

Cost to run devices is built into the annual budget and the replacement of these devices on a regular basis will save money and maintain productivity by preventing critical failures.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **Server Replacement**

Project Number: 76-83			
Contact: Jennifer Jaeger, Chief Technology Officer		5 Year Historical Total	\$ 184,968
Department: Division of Innovation and Technology		2022-2026 Total	<u>355,000</u>
Category: Technology		CIP Project Total (2017-2026):	\$ 539,968
Type: Replacement			
Useful Life: 5 Years			

Description and Justification

With 18 physical servers used by departments in Town, this project will replace a percentage of them each year to ensure critical business operations continue to run without interruption. These 18 physical servers house 200 virtual servers that contain Town data for every application. Just like desktop computers, servers age and must be replaced before a critical hardware failure causes excessive downtime. If just one of the physical servers should fail, multiple departments would be affected, resulting in loss of productivity. Five year old servers need to be replaced or the Town risks failures, which could potentially result in major outages. A regular replacement schedule will keep systems healthy and vendor support available.

Expenditures	2022	2023	2024	2025	2026	Total
Server Replacement	\$ 152,000	\$ 38,000	\$ 85,000	\$ 40,000	\$ 40,000	\$ 355,000

Total Expenditures	\$ 152,000	\$ 38,000	\$ 85,000	\$ 40,000	\$ 40,000	\$ 355,000
---------------------------	-------------------	------------------	------------------	------------------	------------------	-------------------

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Bldg Use Tax	\$ 152,000	\$ 38,000	\$ 85,000	\$ 40,000	\$ 40,000	\$ 355,000

Total Funding Sources	\$ 152,000	\$ 38,000	\$ 85,000	\$ 40,000	\$ 40,000	\$ 355,000
------------------------------	-------------------	------------------	------------------	------------------	------------------	-------------------

Operational Impact

Cost to run devices is built into the annual budget and the replacement of these devices on a regular basis will save money and maintain productivity by preventing critical failures.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

TRANSPORTATION FUND

PUBLIC WORKS DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Miscellaneous Projects & Studies	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000
Traffic Safety Improvements	100,000	100,000	100,000	100,000	100,000	500,000
Traffic Signal Program	501,200	1,023,000	589,400	585,700	644,200	3,343,500
Neighborhood Traffic Calming	25,000	25,000	25,000	25,000	25,000	125,000
Development Related Projects	50,000	50,000	50,000	50,000	50,000	250,000
ADA Ramps	80,000	80,000	80,000	80,000	80,000	400,000
Illuminated Street Name Signs	58,000	59,000	-	-	-	117,000
Park St & Wolfensberger Rd Intersection	-	500,000	-	-	-	500,000
Salt Shed Expansion	226,750	-	-	-	400,000	626,750
Total Expenditures by Year	\$ 1,115,950	\$ 1,912,000	\$ 919,400	\$ 915,700	\$ 1,374,200	\$ 6,237,250

Project Funding Sources	2022	2023	2024	2025	2026	Total
Road And Bridge Tax	\$ 751,200	\$ 1,273,000	\$ 839,400	\$ 835,700	\$ 894,200	\$ 4,593,500
Residential Building Use Tax	364,750	639,000	80,000	80,000	480,000	1,643,750
Total Funding Sources by Year	\$ 1,115,950	\$ 1,912,000	\$ 919,400	\$ 915,700	\$ 1,374,200	\$ 6,237,250

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Castle Rock Snow Plows

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Miscellaneous Projects & Studies

Project Number: 75-24							
Contact: Brian Kelley, Engineering Manager				5 Year Historical Total	\$	220,894	
Department: Public Works Department				2022-2026 Total		375,000	
Category: Infrastructure				CIP Project Total (2017-2026):	\$	595,894	
Type: New							
Useful Life: Variable							

Description and Justification

Small projects and studies are typically identified during the year that are currently unknown. Projects typically arise that were not accounted for or specifically identified in the annual budget process. The purpose of this miscellaneous projects account is to have funding available when minor unexpected road projects need to be funded and constructed. The ability to immediately implement small projects as they are identified provides for the best customer service for the public and maintains a level of service expected and provided by the Town. This project also helps to address increases in traffic and congestion, which has been identified as an area of concern in past Community Surveys.

Expenditures	2022	2023	2024	2025	2026	Total
Design/Engineering/Construction	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000
Total Expenditures	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000

Funding Sources	2022	2023	2024	2025	2026	Total
Road and Bridge Tax	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000
Total Funding Sources	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000

Operational Impact

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations budgets.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Traffic Safety Improvements

Project Number:	75-25		
Contact:	Ryan Germeroth, Assistant Public Works Director	5 Year Historical Total	\$ 668,935
Department:	Public Works Department	2022-2026 Total	<u>500,000</u>
Category:	Infrastructure	CIP Project Total (2017-2026):	\$ 1,168,935
Type:	Repair		
Useful Life:	Variable		

Description and Justification

Small traffic safety studies or projects are typically identified during the year that are currently unknown. This account has been frequently used for the installation of new rectangular rapid flash beacons (RRFB's) to enhance the safety of pedestrian crossings. As more of these RRFBs have been installed, the number of resident requests have increased. In order to keep pace with the existing demand, the fund needs about \$75,000 per year for RRFB's. This would allow for the installation of about five new locations per year. Other examples of projects include modifications to existing curb ramp to improve pedestrian safety, small enhancement at traffic signals or other small projects identified in the annual crash report assessment. These smaller projects typically need up to about \$25,000 to fund for the given year. The ability to immediately implement small projects as they are identified provides for the best customer service for the public and aids in improving safety. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the Community Survey.

Expenditures	2022	2023	2024	2025	2026	Total
Construction	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

Total Expenditures	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000
---------------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------

Funding Sources	2022	2023	2024	2025	2026	Total
Road and Bridge Tax	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

Total Funding Sources	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000
------------------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------

Operational Impact

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations budgets.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Traffic Signal Program

Project Number:	75-26		
Contact:	Ryan Germeroth, Assistant Public Works Director	5 Year Historical Total	\$ 3,334,420
Department:	Public Works Department	2022-2026 Total	3,343,500
Category:	Infrastructure	CIP Project Total (2017-2026):	\$ 6,677,920
Type:	New		
Useful Life:	15-20 Years		

Description and Justification

This program is utilized to construct new traffic signals identified through engineering evaluations, and perform signal system changes recommended in the comprehensive townwide system analysis. For 2022, it is expected that one new traffic signal will be needed. The projected cost for construction per intersection in 2022 is \$440,000. This is an average of the construction costs over the past four years with a expected continuation of a 10 percent price increase per year. In the past three years, cost per intersection has increased 16-30 percent due to other infrastructure, steel signal poles, and an overall increase in construction costs and labor rates. For years 2023 through 2026, signal projects will be selected based on trends, professional judgment, and locations identified by engineering evaluations. Two signals are anticipated in 2023, one signal 2024-2026. A 10 percent increase in cost from one year to the next has been applied to the projected construction in 2023 through 2026. This increase is based on growth in signal construction costs in past years.

\$54,000 of the request for 2022, with 3 percent growth per year for 3 years, would continue installation of advanced vehicle detection at four intersections per year on non-regional corridors, as a continuing signal system upgrade project. This is the third year of a five year project through 2024. In 2022, there is an additional \$7,200 included as a part of a Town match for a signal technology grant. Utilizing Automated Traffic Signal Performance Measures (ATSPMs) include benefits to both signal efficiency and safety. The use of ATSPMs throughout the full signal system can identify deficiencies and allow staff to address the deficiency before it negatively affects the service level and travel time of the corridor. This proactive approach will benefit the community. The intent of ATSPMs is to assure as much operational functionality in a given corridor before additional time and cost is spent on signal retiming projects or more costly capital improvement projects that add physical capacity. Both projects help address increases in traffic and congestion, identified as an area of concern in the Community Survey.

Expenditures	2022	2023	2024	2025	2026	Total
Construction/Engineering	\$ 501,200	\$ 1,023,000	\$ 589,400	\$ 585,700	\$ 644,200	\$ 3,343,500
Total Expenditures	\$ 501,200	\$ 1,023,000	\$ 589,400	\$ 585,700	\$ 644,200	\$ 3,343,500

Funding Sources	2022	2023	2024	2025	2026	Total
Road and Bridge Tax	\$ 501,200	\$ 1,023,000	\$ 589,400	\$ 585,700	\$ 644,200	\$ 3,343,500
Total Funding Sources	\$ 501,200	\$ 1,023,000	\$ 589,400	\$ 585,700	\$ 644,200	\$ 3,343,500

Operational Impact

The department currently contracts out some of the maintenance of traffic signal equipment but only on an as needed basis to supplement in-house capabilities. In addition, electricity cost increases are expected with new signal installation. The average electricity and maintenance cost per signal is \$2,600 per year and is included in electricity costs within the Transportation Fund.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Neighborhood Traffic Calming

Project Number: 75-28

Contact: Ryan Germeroth, Assistant Public Works Director

Department: Public Works Department

Category: Infrastructure

Type: Upgrade

Useful Life: Variable

5 Year Historical Total \$ 131,973

2022-2026 Total 125,000

CIP Project Total (2017-2026): \$ 256,973

Description and Justification

These projects are identified through the Town's Neighborhood Traffic Calming Program. This program encourages cars to adhere to the posted speed limit or reduce the amount of cut-through traffic on residential streets. Projects are identified through the current policy approved by Town Council and administered by staff. These projects are typically developed during the year as requested by residents and certain criteria are met. Examples include the installation of speed cushions on residential streets. This project helps to address the community priority of a safe and reliable transportation system.

Expenditures	2022	2023	2024	2025	2026	Total
Construction/Engineering	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Total Expenditures	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Funding Sources	2022	2023	2024	2025	2026	Total
Road and Bridge Tax	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Total Funding Sources	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Operational Impact

The impact to operations is minor as these projects are small in scope and fairly infrequent. Speed cushions are constructed with asphalt material that is attached to existing asphalt, which can be maintained within existing operations just as the asphalt surface below.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Development Related Projects

Project Number: 75-32						
Contact: Brian Kelley, Engineering Manager				5 Year Historical Total	\$	217,267
Department: Public Works Department				2022-2026 Total		250,000
Category: Infrastructure				CIP Project Total (2017-2026):	\$	467,267
Type: New						
Useful Life: Variable						

Description and Justification

Opportunities exist for transportation improvements to be made in conjunction with various developments. Constructing improvements in conjunction with development improvements can be done at a reduced cost with less impact to the public. Projects are identified through the development review process and constructed as needed. It is the Town's intent to construct these improvements during development at a reduced cost and to continue to provide an adequate level of service. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the Community Survey.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering/Construction	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Total Expenditures	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

Funding Sources	2022	2023	2024	2025	2026	Total
Road and Bridge Tax	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Total Funding Sources	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

Operational Impact

The operational impact of the program will depend on the specific projects constructed and will be incorporated at such time.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

ADA Ramps

Project Number:	76-78		
Contact:	Frank Castillo, Project Manager	5 Year Historical Total	\$ 80,000
Department:	Public Works Department	2022-2026 Total	400,000
Category:	Infrastructure	CIP Project Total (2017-2026):	\$ 480,000
Type:	Upgrade		
Useful Life:	Variable		

Description and Justification

Town Council approved the Americans with Disabilities Act (ADA) Prioritization Plans which identified \$80,000 per year to be allocated towards curb ramp upgrades based on priorities and available funding. A contractor will be utilized to construct these upgrades. The goal of the ADA Curb Ramps Prioritization Plan for the Town of Castle Rock is to ensure that the Town creates accessible paths of travel within the public right-of-way for people with disabilities. The ADA Prioritization Plan will be implemented with annual construction upgrades and retrofits for curb ramps for the purpose of becoming ADA compliant. This project helps to address the community priority of a safe and reliable transportation system.

Expenditures	2022	2023	2024	2025	2026	Total
Construction	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 400,000
Total Expenditures	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 400,000

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Building Use Tax	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 400,000
Total Funding Sources	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 400,000

Operational Impact

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Illuminated Street Name Signs

Project Number: 79-02			
Contact: Jacob Vargish, Transp. Planning & Traffic Engineering Mgr.	5 Year Historical Total	\$	44,335
Department: Public Works Department	2022-2026 Total		117,000
Category: Infrastructure	CIP Project Total (2017-2026):	\$	161,335
Type: New			
Useful Life: 10 years			

Description and Justification

Installation of illuminated street name signs began in 2019 at two existing signalized intersections and continues to 2023. The Town installed no signs last year due to budget deferments. The two locations for 2022 are Meadows Parkway at Highway 85, and Factory Shops Boulevard. Purchase and installation of signs costs approximately \$29,000 for a typical four way intersection.

Expenditures	2022	2023	2024	2025	2026	Total
Construction	\$ 58,000	\$ 59,000	\$ -	\$ -	\$ -	\$ 117,000
Total Expenditures	\$ 58,000	\$ 59,000	\$ -	\$ -	\$ -	\$ 117,000

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Building Use Tax	\$ 58,000	\$ 59,000	\$ -	\$ -	\$ -	\$ 117,000
Total Funding Sources	\$ 58,000	\$ 59,000	\$ -	\$ -	\$ -	\$ 117,000

Operational Impact

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations budgets.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **Park St & Wolfensberger Rd Intersection**

Project Number: 77-44	5 Year Historical Total	\$ -
Contact: Brian Kelley, Engineering Manager	2022-2026 Total	500,000
Department: Public Works Department	CIP Project Total (2017-2026):	\$ 500,000
Category: Infrastructure		
Type: Upgrade		
Useful Life: 10 years		

Description and Justification

This project accommodates turning movements at the intersection of Park Street and Wolfensberger Road in order to allow right turns from east bound Wolfensberger to south bound Park Street without interfering with north bound and left turning Park Street traffic. The timing of this project is proposed to minimize disruption to the community.

Expenditures	2022	2023	2024	2025	2026	Total
Design	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000
Construction	-	400,000	-	-	-	400,000
Total Expenditures	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Building Use Tax	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000
Total Funding Sources	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000

Operational Impact

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations budgets.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Salt Shed Expansion

Project Number: 70-20
 Contact: Daniel Lord, Divison Manager
 Department: Public Works Department
 Category: Infrastructure
 Type: New
 Useful Life: 10 years

5 Year Historical Total	\$	-
2022-2026 Total		626,750
CIP Project Total (2017-2026):	\$	626,750

Description and Justification

Funding is requested to expand the current salt/sand shed located at 675 Justice Way. The expansion will be used to stockpile the salt/sand mix used in the Snow and Ice Control Program. Additional funds are requested in the future to construct a smaller shed immediately adjacent to the existing shed to store the salt mix used downtown and in icebreaking operations. The present storage capacity of the shed has in recent years been insufficient to store all the material needed for winter plowing and ice mitigation operations, forcing the Town to purchase additional material when pricing is at the highest. Being able to stockpile sufficient material for the entire season would allow for the entire purchase to be made when pricing and demand is at its lowest. In addition to the cost savings, as the 2019-2020 season demonstrated, when demand is at its highest distributors will begin an allocation process that provides some material but not allow for entire order fulfillment because nearly all municipalities are asking for material with limited ability to supply it.

A smaller shed (96' x 50') is also requested with construction in five years as the need for the separation of the two salt piles becomes necessary. The smaller shed would be used to store the salt mix for downtown and ice mitigation. The expected capacity of this shed would accommodate 1,500 tons of salt mix and is expected to be sufficient for downtown operations and more than doubles the current capacity for ice mitigation. This is enough material to carry the Town through a season for the foreseeable future at current application rates and accommodate Town growth to roughly 1,800 lane miles.

Expenditures	2022	2023	2024	2025	2026	Total
Construction	\$ 226,750	\$ -	\$ -	\$ -	\$ 400,000	\$ 626,750
Total Expenditures	\$ 226,750	\$ -	\$ -	\$ -	\$ 400,000	\$ 626,750

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Building Use Tax	\$ 226,750	\$ -	\$ -	\$ -	\$ 400,000	\$ 626,750
Total Funding Sources	\$ 226,750	\$ -	\$ -	\$ -	\$ 400,000	\$ 626,750

Operational Impact

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations budgets.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

TRANSPORTATION CAPITAL FUND

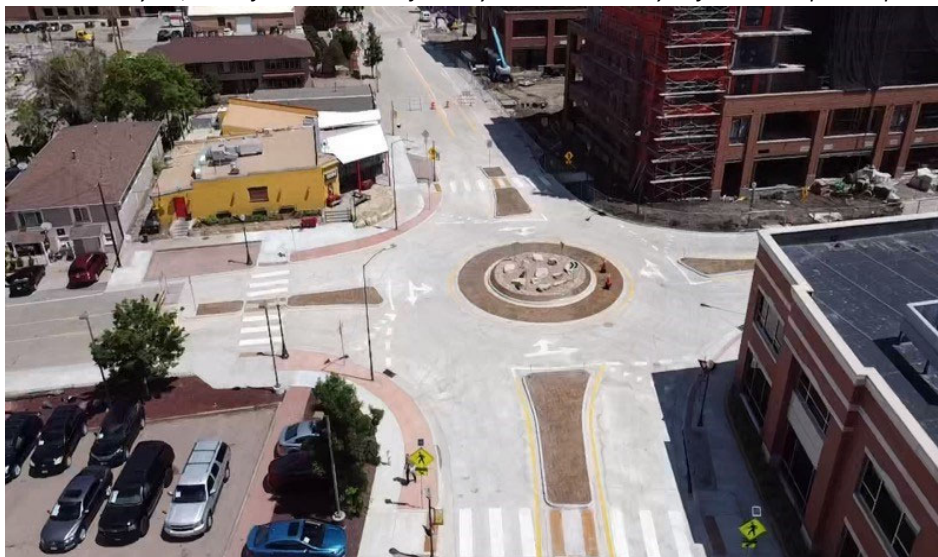
PUBLIC WORKS DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Plum Creek Pkwy Widening & Roundabout	\$ 7,836,800	\$ -	\$ -	\$ -	\$ -	\$ 7,836,800
Ridge Road Widening	5,225,000	-	-	-	-	5,225,000
Highway 86 & 5th Street Improvements	7,000,000	-	-	-	-	7,000,000
Crowfoot Valley Road Widening	2,000,000	-	-	-	-	2,000,000
Crystal Valley Parkway Interchange	13,600,000	-	-	-	-	13,600,000
5th Street Widening	453,000	15,806,000	-	-	-	16,259,000
Wolfensberger Widening & Roundabout	2,500,000	1,144,000	13,011,250	-	-	16,655,250
Plum Creek Widening	-	416,000	-	3,850,000	-	4,266,000
Prairie Hawk Widening-North	-	567,000	-	3,224,000	-	3,791,000
Prairie Hawk Widening-South	-	-	960,960	-	7,587,840	8,548,800
Perry Street Extension	-	-	-	750,000	-	750,000
Founders Parkway Study	1,500,000	-	-	-	-	1,500,000
Plum Creek/Crystal Valley Roundabout	2,500,000	-	-	-	-	2,500,000
86 Widening-Ridge to Enderud	-	-	-	-	900,000	900,000
I-25 Plum Creek Parkway Off Ramp	-	-	-	625,000	-	625,000
Total Expenditures by Year	\$42,614,800	\$17,933,000	\$13,972,210	\$ 8,449,000	\$ 8,487,840	\$ 91,456,850

Project Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$30,177,000	\$17,933,000	\$13,972,210	\$ 8,449,000	\$ 8,487,840	\$ 79,019,050
Residential Building Use Tax	7,836,800	-	-	-	-	7,836,800
Federal Grant	3,601,000	-	-	-	-	3,601,000
County Contribution	1,000,000	-	-	-	-	1,000,000
Total Funding Sources by Year	\$42,614,800	\$17,933,000	\$13,972,210	\$ 8,449,000	\$ 8,487,840	\$ 91,456,850

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



New Roundabout at Wilcox and South Completed in 2021

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Plum Creek Pkwy Widening & Roundabout

Project Number: 77-05		
Contact: Brian Kelley, Engineering Manager	5 Year Historical Total	\$ 8,330,675
Department: Public Works Department	2022-2026 Total	<u>7,836,800</u>
Category: Infrastructure	CIP Project Total (2017-2026):	\$ 16,167,475
Type: Upgrade		
Useful Life: 20 years		

Description and Justification

This project will accommodate the addition of the remaining two lanes of the master planned four-lane roadway for Plum Creek Parkway identified in the Transportation Master Plan. Construction of this project will support the continued development in the south and east areas of the Town. This project will also improve access to the I-25/Plum Creek Parkway interchange from the eastern areas of Town. In addition, this project will include bicycle and pedestrian multi-use lanes. Construction has been phased into two areas, including the widening completed in 2020 from Gilbert Street to Eaton Street. Future construction includes widening from Eaton Street to Ridge Road. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the Community Survey.

Expenditures	2022	2023	2024	2025	2026	Total
Construction	\$ 7,836,800	\$ -	\$ -	\$ -	\$ -	7,836,800
Total Expenditures	\$ 7,836,800	\$ -	\$ -	\$ -	\$ -	7,836,800

Funding Sources	2022	2023	2024	2025	2026	Total
Residential Building Use Tax	\$ 7,836,800	\$ -	\$ -	\$ -	\$ -	7,836,800
Total Funding Sources	\$ 7,836,800	\$ -	\$ -	\$ -	\$ -	7,836,800

Operational Impact

Increases to future pavement maintenance will occur with the additional lane-miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until design details are finalized or after project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Ridge Road Widening

Project Number: 78-84

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Type: Upgrade

Useful Life: 20 years

5 Year Historical Total \$ 1,255,663

2022-2026 Total 5,225,000

CIP Project Total (2017-2026): \$ 6,480,663

Description and Justification

This project request involves widening Ridge Road from the intersection of Highway 86 and Ridge Road to the intersection of Ridge Road and Plum Creek Parkway. The objective of this project is to improve congestion relief due to current and forecasted traffic volumes. Additionally, this project is located on the eastern portion of the Town which assists with the geographic distribution of projects proposed over the five-year period to minimize the density and associated impacts of multiple projects in a certain geographic area. Design for this project was completed in 2019. Funding is included for right of way acquisition and construction in 2022. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the Community Survey.

Expenditures	2022	2023	2024	2025	2026	Total
Right of Way Acquisition	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000
Construction	5,100,000	-	-	-	-	5,100,000
Total Expenditures	\$ 5,225,000	\$ -	\$ -	\$ -	\$ -	\$ 5,225,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ 5,225,000	\$ -	\$ -	\$ -	\$ -	\$ 5,225,000
Total Funding Sources	\$ 5,225,000	\$ -	\$ -	\$ -	\$ -	\$ 5,225,000

Operational Impact

Increases to future pavement maintenance will occur with the additional lane miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until design details are finalized or after project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Highway 86 & 5th Street Improvements

Project Number: 78-69		
Contact: Brian Kelley, Engineering Manager	5 Year Historical Total	\$ 1,537,011
Department: Public Works Department	2022-2026 Total	<u>7,000,000</u>
Category: Infrastructure	CIP Project Total (2017-2026):	\$ 8,537,011
Type: Upgrade		
Useful Life: 20 years		

Description and Justification

This project is requested to accommodate capacity improvements at the intersection of Highway 86 and 5th Street in order to minimize congestion due to current and forecasted traffic volumes. The timing of this project is proposed to occur with the planned widening of Ridge Road in order to minimize disruption to the community. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the Community Survey.

The Town has been awarded a federal grant of \$4.2 million for the project including \$600,000 for design funding that was used in 2020 and \$3.6 million for construction funding in 2022. In addition, Douglas County has agreed to contribute \$1 million toward the construction of the project. The remaining portion of the project costs will be the responsibility of the Town.

Expenditures	2022	2023	2024	2025	2026	Total
Construction	\$ 7,000,000	\$ -	\$ -	\$ -	\$ -	\$ 7,000,000
Total Expenditures	\$ 7,000,000	\$ -	\$ -	\$ -	\$ -	\$ 7,000,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ 2,399,000	\$ -	\$ -	\$ -	\$ -	\$ 2,399,000
Federal Grant	3,601,000	-	-	-	-	3,601,000
County Contribution	1,000,000	-	-	-	-	1,000,000
Total Funding Sources	\$ 7,000,000	\$ -	\$ -	\$ -	\$ -	\$ 7,000,000

Operational Impact

Increases to future pavement maintenance will occur with the additional lane miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until design details are finalized or after project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Crowfoot Valley Road Widening

Project Number: 78-83

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Type: Upgrade

Useful Life: 20 years

5 Year Historical Total \$ -

2022-2026 Total 2,000,000

CIP Project Total (2017-2026): \$ 2,000,000

Description and Justification

This requested project involves the widening of Crowfoot Valley Road from the intersection of Knobcone Drive to the Town boundary. The objective of this project is to improve congestion due to current and forecasted traffic volumes. The timing of the project will coincide with the Canyons South development project in Douglas County and will coordinate any required widening work with the development. The project also includes analyzing the intersection of Timber Canyon and Diamond Ridge to assess improvements for resident egress from the existing developments. Construction is currently anticipated to occur in 2022. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the Community Survey.

Expenditures	2022	2023	2024	2025	2026	Total
Construction	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000

Total Expenditures \$ 2,000,000 \$ - \$ - \$ - \$ - \$ 2,000,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000

Total Funding Sources \$ 2,000,000 \$ - \$ - \$ - \$ - \$ 2,000,000

Operational Impact

Increases to future pavement maintenance will occur with the additional lane-miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **Crystal Valley Parkway Interchange**

Project Number:	78-41		
Contact:	Brian Kelley, Engineering Manager	5 Year Historical Total	\$ 3,285,181
Department:	Public Works Department	2022-2026 Total	<u>13,600,000</u>
Category:	Infrastructure	CIP Project Total (2017-2026):	\$ 16,885,181
Type:	Upgrade		
Useful Life:	30 years		

Description and Justification

A new interchange is planned to be constructed at I-25 in the southernmost part of Town. Located approximately 2.5 miles south of the Plum Creek Parkway interchange, the new interchange will connect Crystal Valley Parkway on the east side of I-25 and Territorial Road on the west side. The current five-year effort is intended to achieve acquisition of remaining right-of-way and set aside future project funding to allow for potential funding partnerships to assist with advancing construction. Current estimates indicate that interchange construction will cost approximately \$70-80 million in today's dollars. The future interchange will provide access from south Castle Rock to the metropolitan areas of Denver and Colorado Springs. It will serve the area's expanding population and is centrally located between several existing and planned developments in south Castle Rock. The interchange will also:

- Improve safety by eliminating one at-grade railroad crossing
- Improve the local roadway network by providing a continuous east-west through route across I-25
- Provide direct access to I-25 for the growing population
- Reduce existing and future congestion at the Plum Creek Parkway interchange by re-distributing traffic to this new interchange

Expenditures	2022	2023	2024	2025	2026	Total
Construction	\$ 13,600,000	\$ -	\$ -	\$ -	\$ -	\$ 13,600,000
Total Expenditures	\$ 13,600,000	\$ -	\$ -	\$ -	\$ -	\$ 13,600,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ 13,600,000	\$ -	\$ -	\$ -	\$ -	\$ 13,600,000
Total Funding Sources	\$ 13,600,000	\$ -	\$ -	\$ -	\$ -	\$ 13,600,000

Operational Impact

Increases to future pavement maintenance will occur with the additional lane-miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

5th Street Widening

Project Number: 78-85

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Type: Upgrade

Useful Life: 20 years

5 Year Historical Total \$ 1,500,000

2022-2026 Total 16,259,000

CIP Project Total (2017-2026): \$ 17,759,000

Description and Justification

This project involves widening the eastbound lanes from the intersection of Woodlands Boulevard at Fifth Street to the intersection of Fifth Street and Ridge Road. The objective of this project is to reduce congestion due to forecasted traffic volumes which have been identified as an area of concern in the Community Survey.

Additional pedestrian improvements will be incorporated to improve safety between Woodlands Boulevard and Ridge Road. The timing of this project is proposed to occur with the intersection improvements at Fifth Street and Ridge Road in order to minimize disruption to the community.

Expenditures	2022	2023	2024	2025	2026	Total
Right of Way Acquisition	\$ 453,000	\$ -	\$ -	\$ -	\$ -	\$ 453,000
Construction	-	15,806,000	-	-	-	15,806,000
Total Expenditures	\$ 453,000	\$ 15,806,000	\$ -	\$ -	\$ -	\$ 16,259,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ 453,000	\$ 15,806,000	\$ -	\$ -	\$ -	\$ 16,259,000
Total Funding Sources	\$ 453,000	\$ 15,806,000	\$ -	\$ -	\$ -	\$ 16,259,000

Operational Impact

Increases to future pavement maintenance will occur with the additional lane miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until design details are finalized or after project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **Wolfensberger Widening & Roundabout**

Project Number: 77-08	5 Year Historical Total	\$ -
Contact: Brian Kelley, Engineering Manager	2022-2026 Total	16,655,250
Department: Public Works Department	CIP Project Total (2017-2026):	\$ 16,655,250
Category: Infrastructure		
Type: Upgrade		
Useful Life: 20 years		

Description and Justification

This project accommodates designing the remaining two lanes of the master planned four lane roadway on Wolfensberger Road from the intersection of Red Hawk Drive to the future Philip S. Miller Regional Park entrance. This widening of the roadway will support the continued development of the north/south and west areas of the Town by improving access to I-25 at Wolfensberger Road from the western areas of Town. This project will also include bicycle and pedestrian multi-use lanes. This project will also reduce congestion along Wolfensberger Road, provide needed pedestrian and bicycle connections between the downtown area and Coachline Road, and support proposed development along Wolfensberger.

This project also accommodates the construction of a roundabout at the intersection of Wolfensberger Road and Red Hawk Drive. This project will improve the capacity of the intersection in order to assist with congestion relief as well as improve safety. A roundabout is also the most efficient traffic control throughout all hours of the day, as opposed to traffic signals, which are limited in efficiency to the peak hours of a day. The improved efficiency of a roundabout leads to increased societal benefits such as decreased delay, improved safety, and decreased environmental impacts. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the Community Survey.

Expenditures	2022	2023	2024	2025	2026	Total
Design	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000
Right of Way Acquisition	-	1,144,000	-	-	-	1,144,000
Construction	-	-	13,011,250	-	-	13,011,250
Total Expenditures	\$ 2,500,000	\$ 1,144,000	\$ 13,011,250	\$ -	\$ -	\$ 16,655,250

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ 2,500,000	\$ 1,144,000	\$ 13,011,250	\$ -	\$ -	\$ 16,655,250
Total Funding Sources	\$ 2,500,000	\$ 1,144,000	\$ 13,011,250	\$ -	\$ -	\$ 16,655,250

Operational Impact

Increases to future pavement maintenance will occur with the additional lane miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until design details are finalized or after project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Plum Creek Widening

Project Number: 77-05

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Type: Upgrade

Useful Life: 20 years

5 Year Historical Total \$ 8,330,675

2022-2026 Total 4,266,000

CIP Project Total (2017-2026): \$ 12,596,675

Description and Justification

This project completes widening Plum Creek Parkway from the intersection at Wolfensberger Road to the entrance at Philip S. Miller Park. This project was identified in the Town's Transportation Master Plan as needed to reduce current and future traffic congestion. The work programmed for 2023 includes the completion of the roadway design with construction planned in 2025.

Expenditures	2022	2023	2024	2025	2026	Total
Design	\$ -	\$ 416,000	\$ -	\$ -	\$ -	\$ 416,000
Construction	-	-	-	3,850,000	-	3,850,000
Total Expenditures	\$ -	\$ 416,000	\$ -	\$ 3,850,000	\$ -	\$ 4,266,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ -	\$ 416,000	\$ -	\$ 3,850,000	\$ -	\$ 4,266,000
Total Funding Sources	\$ -	\$ 416,000	\$ -	\$ 3,850,000	\$ -	\$ 4,266,000

Operational Impact

Increases to future pavement maintenance will occur with the additional lane miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until design details are finalized or after project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Prairie Hawk Widening-North

Project Number: 76-29

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Type: Upgrade

Useful Life: 20 years

5 Year Historical Total \$ -

2022-2026 Total 3,791,000

CIP Project Total (2017-2026): \$ 3,791,000

Description and Justification

The Town's Transportation Master Plan has identified the need to widen Prairie Hawk to four lanes between Wolfensberger Road on the south end to Melting Snow Drive to the north. This widening is included in the Master Plan as a project to be completed by 2030 in order to accommodate continued growth within the Town. This project objective is in line with one of the community's top priorities to address traffic congestion as identified in previous Community Surveys.

Expenditures	2022	2023	2024	2025	2026	Total
Design	\$ -	\$ 567,000	\$ -	\$ -	\$ -	\$ 567,000
Construction	-	-	-	3,224,000	-	3,224,000
Total Expenditures	\$ -	\$ 567,000	\$ -	\$ 3,224,000	\$ -	\$ 3,791,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ -	\$ 567,000	\$ -	\$ 3,224,000	\$ -	\$ 3,791,000
Total Funding Sources	\$ -	\$ 567,000	\$ -	\$ 3,224,000	\$ -	\$ 3,791,000

Operational Impact

Minor increases to pavement maintenance are anticipated, dependent on the overall net change to the roadway impervious area. This impact will not be known until design details are finalized or after project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Prairie Hawk Widening-South

Project Number: 76-29

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Type: Upgrade

Useful Life: 20 years

5 Year Historical Total \$ -

2022-2026 Total 8,548,800

CIP Project Total (2017-2026): \$ 8,548,800

Description and Justification

The Town's Transportation Master Plan has identified the need to widen Prairie Hawk Road between Wolfensberger and Plum Creek Parkway. The cross section will be a four-lane roadway. This extension project is included in the Master Plan as a project to be completed by 2030 in order to accommodate continued growth within the Town. This project objective is in line with one of the community's top priorities to address traffic congestion as identified in the previous Community Surveys.

Expenditures	2022	2023	2024	2025	2026	Total
Design	\$ -	\$ -	\$ 960,960	\$ -	\$ -	\$ 960,960
Construction	-	-	-	-	7,587,840	7,587,840
Total Expenditures	\$ -	\$ -	\$ 960,960	\$ -	\$ 7,587,840	\$ 8,548,800

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ -	\$ -	\$ 960,960	\$ -	\$ 7,587,840	\$ 8,548,800
Total Funding Sources	\$ -	\$ -	\$ 960,960	\$ -	\$ 7,587,840	\$ 8,548,800

Operational Impact

Increases to future pavement maintenance will occur with the additional lane-miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Perry Street Extension

Project Number: 79-14
 Contact: Brian Kelley, Engineering Manager
 Department: Public Works Department
 Category: Infrastructure
 Type: Upgrade
 Useful Life: 20 years

5 Year Historical Total \$ -
 2022-2026 Total 750,000
CIP Project Total (2017-2026): \$ 750,000

Description and Justification

The Town's Transportation Master Plan has identified the need to extend Perry Street from where it ends to the south of Plum Creek Parkway over to the east Frontage Road. This extension project is included in the Master Plan as a project to be completed by full build out of the Town in order to accommodate continued growth within the Town. This project objective is in line with one of the community's top priorities to address traffic congestion as identified in the recent Community Surveys.

Expenditures	2022	2023	2024	2025	2026	Total
Design	\$ -	\$ -	\$ -	\$ 750,000	\$ -	\$ 750,000
Total Expenditures	\$ -	\$ -	\$ -	\$ 750,000	\$ -	\$ 750,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ -	\$ -	\$ -	\$ 750,000	\$ -	\$ 750,000
Total Funding Sources	\$ -	\$ -	\$ -	\$ 750,000	\$ -	\$ 750,000

Operational Impact

Increases to future pavement maintenance will occur with the additional lane-miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Founders Parkway Study

Project Number: 79-15

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Type: Planning/Design

Useful Life: 20 years

5 Year Historical Total \$ -

2022-2026 Total 1,500,000

CIP Project Total (2017-2026): \$ 1,500,000

Description and Justification

The Town's Transportation Master Plan has identified the need to address expected traffic congestion on Founders Parkway. The means by which this expected congestion is mitigated could result in a new interchange on I-25 and / or improvements to Founders Parkway. A more in depth study called a Planning and Environmental Linkage study will be needed to identify the needed improvements. This project objective is in line with one of the community's top priorities to address traffic congestion as identified in the recent Community Surveys. Funding for the study is included in 2022.

Expenditures	2022	2023	2024	2025	2026	Total
Construction	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
Total Expenditures	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
Total Funding Sources	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000

Operational Impact

This study will inform future project efforts on Founders Parkway. Additional costs will be unknown until study is completed.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Plum Creek/Crystal Valley Roundabout

Project Number: 79-17	5 Year Historical Total	\$ -
Contact: Brian Kelley, Engineering Manager	2022-2026 Total	2,500,000
Department: Public Works Department	CIP Project Total (2017-2026):	\$ 2,500,000
Category: Infrastructure		
Type: Planning/Design		
Useful Life: 20 years		

Description and Justification

Town staff is evaluating the intersection at Plum Creek Boulevard and Crystal Valley Parkway for a potential future roundabout. Funding is being requested for design, right-of-way purchase, and construction of a roundabout.

Expenditures	2022	2023	2024	2025	2026	Total
Design	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000
Right of Way	100,000	-	-	-	-	100,000
Construction	2,100,000	-	-	-	-	2,100,000
Total Expenditures	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000
Total Funding Sources	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000

Operational Impact

Minor increases to pavement maintenance are anticipated, dependent on the overall net change to the roadway impervious area. This impact will not be known until design details are finalized or after project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **86 Widening-Ridge to Enderud**

Project Number:	79-01		
Contact:	Brian Kelley, Engineering Manager	5 Year Historical Total	\$ -
Department:	Public Works Department	2022-2026 Total	<u>900,000</u>
Category:	Infrastructure	CIP Project Total (2017-2026):	\$ 900,000
Type:	Upgrade		
Useful Life:	20 years		

Description and Justification

The Town's Transportation Master Plan has identified the need to widen the existing two-lane roadway on highway 86 to four lanes between Ridge Road and Enderud. This is included in the Master Plan as a project to be completed by 2030 in order to accommodate continued growth within the Town. This project objective is in line with one of the community's top priorities to address traffic congestion as identified in the recent Community Surveys. Funding for design is included in 2026 with construction currently planned beyond the five year planning period.

Expenditures	2022	2023	2024	2025	2026	Total
Design	\$ -	\$ -	\$ -	\$ -	\$ 900,000	\$ 900,000
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ 900,000	\$ 900,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ -	\$ -	\$ -	\$ -	\$ 900,000	\$ 900,000
Total Funding Sources	\$ -	\$ -	\$ -	\$ -	\$ 900,000	\$ 900,000

Operational Impact

No operational impacts expected because CDOT maintains Highway 86.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **I-25 Plum Creek Parkway Off Ramp**

Project Number: 79-18		5 Year Historical Total	\$	-
Contact: Brian Kelley, Engineering Manager		2022-2026 Total		625,000
Department: Public Works Department		CIP Project Total (2017-2026):		\$ 625,000
Category: Infrastructure				
Type: New - Upgrade				
Useful Life: 20 years				

Description and Justification

This project is intended to complete improvements at the off ramp from I-25 to Plum Creek Parkway. This project was identified in the Town's Transportation Master Plan as need to reduce current and future traffic congestion at this highway exit. Design work is planned for 2025 with construction expected to be outside the five-year planning period.

Expenditures	2022	2023	2024	2025	2026	Total
Design	\$ -	\$ -	\$ -	\$ 625,000	\$ -	\$ 625,000
Total Expenditures	\$ -	\$ -	\$ -	\$ 625,000	\$ -	\$ 625,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ -	\$ -	\$ -	\$ 625,000	\$ -	\$ 625,000
Total Funding Sources	\$ -	\$ -	\$ -	\$ 625,000	\$ -	\$ 625,000

Operational Impact

Increases to future pavement maintenance will occur with the additional lane miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until design details are finalized or after project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

CONSERVATION TRUST FUND

PARKS & RECREATION DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Park Improvements	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 500,000	\$ 4,500,000
Total Expenditures by Year	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 500,000	\$ 4,500,000

Project Funding Sources	2022	2023	2024	2025	2026	Total
Douglas County Shareback	\$ 833,750	\$ 833,750	\$ -	\$ -	\$ -	\$ 1,667,500
Lottery Funds	166,250	166,250	1,000,000	1,000,000	500,000	2,832,500
Total Funding Sources by Year	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 500,000	\$ 4,500,000

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Colorado Front Range Trail

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Park Improvements

Project Number: 75-18		5 Year Historical Total	\$ 4,374,977
Contact: Jeff Smullen, Assistant Director of Parks & Recreation		2022-2026 Total	4,500,000
Department: Parks & Recreation Department		CIP Project Total (2017-2026):	\$ 8,874,977
Category: Parks/Trails			
Type: Repair			
Useful Life: 15-20 years			

Description and Justification

The upkeep of parks and open space requires continual investment to maintain existing levels of service. Playground equipment and other park amenities deteriorate with standard wear patterns and have an average life expectancy of 15-20 years. This capital project is reserved each year for life cycle repair and replacement projects throughout Castle Rock, which includes items such as playground replacements, game court, athletic field, and pavilion improvements. This meets the Council-supported strategic plan goal of providing safe, high-quality facilities for residents through the implementation of an annual replacement program.

Staff will request Douglas County Shareback funds annually through 2023 (when the fund sunsets) and also receives annual funds from the Colorado Lottery to complete design work, assessment, and capital improvements as necessary for each property as identified through the annual assessment process.

Planned improvements are scheduled for the following parks. Amounts will be determined by design scope and location specific needs:

Recreation Center playground, Founders, Centennial, Castle Highlands, Bison, and Philip S. Miller parks including amphitheater and event space improvements.

Expenditures	2022	2023	2024	2025	2026	Total
Park Improvements	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 500,000	\$ 4,500,000

Total Expenditures	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 500,000	\$ 4,500,000
---------------------------	---------------------	---------------------	---------------------	---------------------	-------------------	---------------------

Funding Sources	2022	2023	2024	2025	2026	Total
Douglas County Shareback	\$ 833,750	\$ 833,750	\$ -	\$ -	\$ -	\$ 1,667,500
Lottery Funds	166,250	166,250	1,000,000	1,000,000	500,000	2,832,500

Total Funding Sources	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 500,000	\$ 4,500,000
------------------------------	---------------------	---------------------	---------------------	---------------------	-------------------	---------------------

Operational Impact

The operational impact of this project will not be known until project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

PARKS AND RECREATION CAPITAL FUND

PARKS & RECREATION DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Future Parks	\$ 450,000	\$ 4,500,000	\$ -	\$ -	\$ -	\$ 4,950,000
Recreation Center	-	-	2,500,000	15,000,000	-	17,500,000
Total Expenditures by Year	\$ 450,000	\$ 4,500,000	\$ 2,500,000	\$ 15,000,000	\$ -	\$ 22,450,000

Project Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ 450,000	\$ 4,500,000	\$ 2,500,000	\$ 15,000,000	\$ -	\$ 22,450,000
Total Funding Sources by Year	\$ 450,000	\$ 4,500,000	\$ 2,500,000	\$ 15,000,000	\$ -	\$ 22,450,000

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Cobblestone Ranch Stone Park Site

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Future Parks

Project Number: 75-21		
Contact: Jeff Smullen, Assistant Director of Parks & Recreation	5 Year Historical Total	\$ 7,735,373
Department: Parks & Recreation Department	2022-2026 Total	<u>4,950,000</u>
Category: Parks/Trails	CIP Project Total (2017-2026):	\$ 12,685,373
Type: New		
Useful Life: 50 years		

Description and Justification

The Parks and Recreation Department requests funding for park design and construction that includes new community and neighborhood parks to maintain current levels of service with population growth. The location of this park will be determined in the future.

Expenditures	2022	2023	2024	2025	2026	Total
Park Design	\$ 450,000	\$ -	\$ -	\$ -	\$ -	\$ 450,000
Park Construction	-	4,500,000	-	-	-	4,500,000
Total Expenditures	\$ 450,000	\$ 4,500,000	\$ -	\$ -	\$ -	\$ 4,950,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ 450,000	\$ 4,500,000	\$ -	\$ -	\$ -	\$ 4,950,000
Total Funding Sources	\$ 450,000	\$ 4,500,000	\$ -	\$ -	\$ -	\$ 4,950,000

Operational Impact

Operational costs will increase after the completion of construction of each neighborhood park. These costs will be determined and incorporated into future planning in the General Fund once design of the park site is complete. Factors affecting operating costs include size of the park site, natural v. artificial turf, water features, and other elements related to the specific park site.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Recreation Center

Project Number: 79-14

Contact: Jeff Smullen, Assistant Director of Parks & Recreation

Department: Parks & Recreation Department

Category: Building

Type: New

Useful Life: 50 years

5 Year Historical Total \$ -

2022-2026 Total 17,500,000

CIP Project Total (2017-2026): \$ 17,500,000

Description and Justification

The Parks and Recreation Capital Fund includes planning for both parks and indoor recreation facilities as a core level of service for the Town. A new indoor recreation center is planned for a 2026 opening and is needed to meet the demand created by growth. A new recreation facility is included in the Parks and Recreation approved strategic plan and master plan as it aligns with Council strategic priority of maintaining excellent parks and recreation services.

The plan for the new center has not been fully developed or publicly processed; however, the new facility may include aquatics, gymnasiums, and/or other facilities yet to be determined. In 2024, \$500,000 is identified for design development. This cost would include initial program development, site selection, preliminary studies, and public process. Also in 2024, preconstruction services of \$2.5 million are budgeted to finalize design in order to complete a full bid ready package for development. In 2025, \$15,000,000 is planned for a new recreation center in Town.

Expenditures	2022	2023	2024	2025	2026	Total
Design & Preconstruction Services	\$ -	\$ -	\$ 2,500,000	-	\$ -	\$ 2,500,000
Construction	-	-	-	15,000,000	-	15,000,000
Total Expenditures	\$ -	\$ -	\$ 2,500,000	\$ 15,000,000	\$ -	\$ 17,500,000

Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ -	\$ -	\$ 2,500,000	\$ 15,000,000	\$ -	\$ 17,500,000
Total Funding Sources	\$ -	\$ -	\$ 2,500,000	\$ 15,000,000	\$ -	\$ 17,500,000

Operational Impact

The 2019 feasibility study identified the potential revenue and operational cost of a new indoor recreation facility. The program mix for this facility must consider balancing elements with higher operational costs with revenue producing amenities to meet future cost recovery goals.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

POLICE CAPITAL FUND

POLICE DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Police Department Basement Remodel	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

Total Expenditures by Year	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
-----------------------------------	-------------------	-------------	-------------	-------------	-------------	-------------------

Project Funding Sources	2022	2023	2024	2025	2026	Total
Impact Fees	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

Total Funding Sources by Year	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
--------------------------------------	-------------------	-------------	-------------	-------------	-------------	-------------------

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Castle Rock Police Building

2022-2026 CAPITAL IMPROVEMENT PROGRAM

WATER FUND

CASTLE ROCK WATER

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Water Supply Wells	\$ 4,281,000	\$ 5,725,000	\$ 2,725,000	\$ 2,725,000	\$ 1,375,000	\$ 16,831,000
Water Treatment Plant Upgrades & Equip.	835,000	150,000	150,000	255,000	150,000	1,540,000
Water Storage (Tank) Projects	50,000	50,000	50,000	50,000	50,000	250,000
Pump & Distribution System Upgrades	50,000	50,000	1,150,000	1,150,000	50,000	2,450,000
Waterline Rehab/Replacement	3,876,163	3,990,480	1,683,000	850,000	1,465,000	11,864,643
Security & SCADA System Improvements	2,475,000	1,720,000	2,178,000	844,000	112,000	7,329,000
General Facility Upgrades & Replacements	250,000	225,000	200,000	200,000	200,000	1,075,000
Advanced Metering Infrastructure	402,729	1,805,378	1,696,954	1,699,854	100,988	5,705,903
Total Expenditures by Year	\$12,219,892	\$13,715,858	\$9,832,954	\$7,773,854	\$3,502,988	\$47,045,546

Project Funding Sources	2022	2023	2024	2025	2026	Total
Metered Water Sales	\$ 6,236,892	\$ 7,905,858	\$ 5,816,454	\$ 6,673,854	\$ 3,022,988	\$ 29,656,046
System Development Fees	5,983,000	5,810,000	4,016,500	1,100,000	480,000	17,389,500
Total Funding Sources by Year	\$12,219,892	\$13,715,858	\$9,832,954	\$7,773,854	\$3,502,988	\$47,045,546

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Advanced Treatment Building

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Water Supply Wells

Project Number: Multiple		5 Year Historical Total	\$ 10,196,607
Contact: Engineering Manager		2022-2026 Total	16,831,000
Department: Castle Rock Water		CIP Project Total (2017-2026):	\$ 27,027,607
Category: Infrastructure			
Type: Replacement			
Useful Life: 25 years			

Description and Justification

This project is intended to rehabilitate or replace existing Town of Castle Rock wells as they reach the end of their useful lives.

Variable Frequency Drive (VFD) replacement - This project is intended to replace VFD's which are obsolete and, placing new VFD and other electrical components and controls outside of the building, away from the water pipe.

Well Redrills - As existing wells deteriorate, they need to be rehabilitated or replaced. Replacement wells generally provide the same yield as a new well, but at a fraction of the cost.

New Wells and Waterlines - New deep groundwater wells and waterlines are budgeted for in 2023 and 2024 in order to keep up with water demand for the Town. The funding for this project is coming from System Development Fees due to growth in the community.

Castle Rock Water will be assuming the water treatment and distribution for the Bell Mountain (Mtn) subdivision, and assuming their assets. The existing Bell Mtn well assets are in need of redrill in order to optimize their performance and extend their life. New wells are also planned for the Bell Mtn site; the Bell Mtn Raw Water Pipeline project will transport the raw water to the water treatment plant for treatment and distribution to the community.

Expenditures	2022	2023	2024	2025	2026	Total
Well Equipment and Replacement	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 1,250,000	\$ 1,650,000
VFD Replacement	125,000	125,000	125,000	125,000	125,000	625,000
Well Redrill	-	2,500,000	-	2,500,000	-	5,000,000
New Wells and Waterlines	-	3,000,000	2,500,000	-	-	5,500,000
Bell Mtn Well Redrill	2,500,000	-	-	-	-	2,500,000
BMR Well Raw Water Pipeline	1,556,000	-	-	-	-	1,556,000
Total Expenditures	\$ 4,281,000	\$ 5,725,000	\$ 2,725,000	\$ 2,725,000	\$ 1,375,000	\$ 16,831,000

Funding Sources	2022	2023	2024	2025	2026	Total
Metered Water Sales	\$ 225,000	\$ 2,725,000	\$ 225,000	\$ 2,725,000	\$ 1,375,000	\$ 7,275,000
System Development Fees	4,056,000	3,000,000	2,500,000	-	-	9,556,000
Total Funding Sources	\$ 4,281,000	\$ 5,725,000	\$ 2,725,000	\$ 2,725,000	\$ 1,375,000	\$ 16,831,000

Operational Impact

Costs will vary for each well depending on the amount and type of rehabilitation, and the depth of the well and will be determined upon project completion and incorporated into operational budgets at that time.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Water Treatment Plant Upgrades & Equip.

Project Number: Multiple		5 Year Historical Total	\$	322,301
Contact: Engineering Manager		2022-2026 Total		1,540,000
Department: Castle Rock Water		CIP Project Total (2017-2026):		
Category: Infrastructure			\$	1,862,301
Type: Upgrade				
Useful Life: 50 years				

Description and Justification

This facility upgrade project provide for miscellaneous improvements at existing Water Treatment Plants (WTP). There are five active water treatment plants, with one dedicated for peak demand in Castle Rock. Examples of specific upgrades include pipe gallery painting, HVAC and cooling unit replacements, door repair and replacement, basin repairs, instrumentation, alarm upgrades, and safety improvements.

The equipment replacement project includes replacing existing electrical and/or mechanical equipment associated with water treatment facilities. These plants are necessary to filter deep aquifer groundwater and for purifying alluvial well water. These facilities require periodic upgrades to instrumentation, controls, and other small upgrades. Electrical and mechanical equipment needs to be replaced as equipment reaches the end of its useful life. A preventive maintenance program associated with asset management will be used to determine replacement schedules based on the type of equipment, service duty, and operating conditions. These projects help Castle Rock Water meet the priority of providing high quality and reliable water service to Town residents and businesses.

Castle Rock water will be assuming the water treatment and distribution for the Bell Mountain (Mtn) subdivision. The Bell Mtn Water Treatment Plant (WTP) chloramination project will complete upgrades at the existing treatment plant to make the Bell Mtn treated water compatible with Castle Rock treated water. The WTP pH corrosion control project will add pH adjustment capability to the existing water treatment process to optimize the corrosion control potential of the Bell Mtn treated water. This will also make the treated water more compatible with Castle Rock treated water.

Expenditures	2022	2023	2024	2025	2026	Total
WTP Facility Upgrades	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
WTP Equipment Replacement	100,000	100,000	100,000	100,000	100,000	500,000
WTP Media Replacement	-	-	-	105,000	-	105,000
Bell Mtn WTP Chloramination	225,000	-	-	-	-	225,000
WTP pH Corrosion Control	460,000	-	-	-	-	460,000
Total Expenditures	\$ 835,000	\$ 150,000	\$ 150,000	\$ 255,000	\$ 150,000	\$ 1,540,000

Funding Sources	2022	2023	2024	2025	2026	Total
Metered Water Sales	\$ 835,000	\$ 150,000	\$ 150,000	\$ 255,000	\$ 150,000	\$ 1,540,000
Total Funding Sources	\$ 835,000	\$ 150,000	\$ 150,000	\$ 255,000	\$ 150,000	\$ 1,540,000

Operational Impact

There is no operational impact anticipated for these projects.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Water Storage (Tank) Projects

Project Number: Multiple
 Contact: Engineering Manager
 Department: Castle Rock Water
 Category: Infrastructure
 Type: Upgrade
 Useful Life: 50 years

5 Year Historical Total	\$	30,874
2022-2026 Total		250,000
CIP Project Total (2017-2026):	\$	280,874

Description and Justification

The tank rehabilitation project includes structural and/or site modifications to existing tanks to ensure reliability and tank security as needed.

Expenditures	2022	2023	2024	2025	2026	Total
Tank Rehab	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

Total Expenditures	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
---------------------------	------------------	------------------	------------------	------------------	------------------	-------------------

Funding Sources	2022	2023	2024	2025	2026	Total
Metered Water Sales	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

Total Funding Sources	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
------------------------------	------------------	------------------	------------------	------------------	------------------	-------------------

Operational Impact

Future repair and maintenance of tanks is ongoing and is included within currently budgeted maintenance and personnel costs.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Pump & Distribution System Upgrades

Project Number: Multiple		
Contact: Engineering Manager		5 Year Historical Total \$ 47,929
Department: Castle Rock Water		2022-2026 Total <u>2,450,000</u>
Category: Equipment		CIP Project Total (2017-2026): \$ 2,497,929
Type: Upgrade		
Useful Life: 25 years		

Description and Justification

The Town has nine active pump stations that are over ten years old. Pump stations are critical to providing water to customers and for moving water around Town. Although a pump station facility has an overall 50 year service life, the individual components (pumps, motors, flow meters, valves, etc.) need replacement at shorter intervals. Water Infrastructure and Supply Efficiency (WISE) deliveries are expected to increase over time as more renewable water sources are added. Modeling indicates that to accommodate and deliver WISE water around Town, future pumping capacity in the Red and Green Zones will have to be increased in 2025 to move the water to distribution and storage.

These projects help Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

Expenditures	2022	2023	2024	2025	2026	Total
Green Zone Pumping	\$ -	\$ -	\$ -	\$ 1,100,000	\$ -	\$ 1,100,000
PS Equipment Replacement	50,000	50,000	50,000	50,000	50,000	250,000
Red Zone Pumping	-	-	1,100,000	-	-	1,100,000
Total Expenditures	\$ 50,000	\$ 50,000	\$ 1,150,000	\$ 1,150,000	\$ 50,000	\$ 2,450,000

Funding Sources	2022	2023	2024	2025	2026	Total
Metered Water Sales	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
System Development Fees	-	-	1,100,000	1,100,000	-	2,200,000
Total Funding Sources	\$ 50,000	\$ 50,000	\$ 1,150,000	\$ 1,150,000	\$ 50,000	\$ 2,450,000

Operational Impact

Red Zone Pumping Upsize estimated operating costs are \$30,074 annually and is incorporated into the Water Fund Operations Budget and paid for with System Development Fees as part of the Town's growth.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Waterline Rehab/Replacement

Project Number: Multiple

Contact: Engineering Manager

Department: Castle Rock Water

Category: Infrastructure

Type: Replacement

Useful Life: 50 years

5 Year Historical Total \$ 1,135,782

2022-2026 Total 11,864,643

CIP Project Total (2017-2026): \$ 13,000,425

Description and Justification

This project is intended to rehabilitate or replace existing Town of Castle Rock waterlines as they reach the end of their useful lives. The Glovers project is a phased approach to replace aging waterline in the Glovers neighborhood. Plans include the replacement of approximately 10,500 linear feet of eight inch water mains. Glovers phase 1 was completed in 2021 and phase 2 will be constructed in 2022.

The Distribution System Upgrades projects usually include projects such as replacing or upsizing pressure reducing vaults, or replacing old valves and are meant to extend the lifetime of the asset.

The Tank 18 Blue Zone transmission line is a project identified in the 2017 Water Master Plan. The Blue Zone transmission line is required to send water up to the new 2.0 Mgal Cobblestone tank, which will be constructed in 2022. The new tank will improve distribution system and fire flow reliability for the Cobblestone neighborhood.

Expenditures	2022	2023	2024	2025	2026	Total
Waterline Rehab/Replacement	\$ -	\$ -	\$ 600,000	\$ 600,000	\$ 600,000	\$ 1,800,000
Distribution System Upgrades	250,000	250,000	250,000	250,000	250,000	1,250,000
Glovers Waterline Replacement	1,699,163	-	-	-	-	1,699,163
Prestwick Way Waterline Rehab	-	930,480	-	-	-	930,480
Liggett Rd Upsize	-	344,000	-	-	-	344,000
5th Street Red Zone Connection	-	175,000	-	-	-	175,000
Tank 18 Blue Zone Transmission	1,927,000	-	-	-	-	1,927,000
Blue Zone-Plum Creek to Frontage Rd	-	1,357,000	-	-	-	1,357,000
Tank 22 to Pine Canyon Pipe	-	-	-	-	480,000	480,000
Front St to Downtown Connection	-	-	833,000	-	-	833,000
Bell Mtn Ranch Connection	-	934,000	-	-	-	934,000
Woodlands Founders PRV	-	-	-	-	135,000	135,000
Total Expenditures	\$ 3,876,163	\$ 3,990,480	\$ 1,683,000	\$ 850,000	\$ 1,465,000	\$ 11,864,643

Funding Sources	2022	2023	2024	2025	2026	Total
Metered Water Sales	\$ 1,949,163	\$ 1,180,480	\$ 1,266,500	\$ 850,000	\$ 985,000	\$ 6,231,143
System Development Fees	1,927,000	2,810,000	416,500	-	480,000	5,633,500
Total Funding Sources	\$ 3,876,163	\$ 3,990,480	\$ 1,683,000	\$ 850,000	\$ 1,465,000	\$ 11,864,643

Operational Impact

There are no additional future operating expenditures associated with rehabilitation/replacement.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Security & SCADA System Improvements

Project Number:	Multiple		
Contact:	Tim Friday, Assistant Director of Castle Rock Water	5 Year Historical Total	\$ 40,196
Department:	Castle Rock Water	2022-2026 Total	7,329,000
Category:	Building	CIP Project Total (2017-2026):	\$ 7,369,196
Type:	Upgrade		
Useful Life:	20 years		

Description and Justification

This project is intended to accomplish miscellaneous small projects to increase facility security in accordance with the Facilities Vulnerability Assessment and Supervisory Control And Data Acquisition (SCADA) Master Plan and accomplish future year water transmission and distribution facility upgrades. Projects include electronic access control at all water facilities through installation of card readers or replacement of mechanical locks with electronic locks operated by programmable keys. Other projects include repair and replacement of fencing and installation of secure gates.

The SCADA master plan is a six year to replace all aging telemetry and system controls across the Castle Rock Water system to ensure reliability and system integrity. SCADA system capital improvements in 2022 include system-wide telemetry network upgrades and backhaul system network upgrades, various PLC (programmable logic controllers) upgrades, and network upgrades at the Ray Water Regional Water treatment center.

Expenditures	2022	2023	2024	2025	2026	Total
Security Improvements	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 35,000	\$ 135,000
SSCADA System Capital Improvements	2,450,000	1,695,000	2,153,000	819,000	77,000	7,194,000
Total Expenditures	\$ 2,475,000	\$ 1,720,000	\$ 2,178,000	\$ 844,000	\$ 112,000	\$ 7,329,000

Funding Sources	2022	2023	2024	2025	2026	Total
Metered Water Sales	\$ 2,475,000	\$ 1,720,000	\$ 2,178,000	\$ 844,000	\$ 112,000	\$ 7,329,000
Total Funding Sources	\$ 2,475,000	\$ 1,720,000	\$ 2,178,000	\$ 844,000	\$ 112,000	\$ 7,329,000

Operational Impact

There are no additional future operating expenditures associated with Security and SCADA System Improvements.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name General Facility Upgrades & Replacements

Project Number:	Multiple		
Contact:	Tim Friday, Assistant Director of Castle Rock Water	5 Year Historical Total	\$ 180,845
Department:	Castle Rock Water	2022-2026 Total	1,075,000
Category:	Equipment	CIP Project Total (2017-2026):	\$ 1,255,845
Type:	Upgrade		
Useful Life:	20 years		

Description and Justification

The general facility project is intended to upgrade an existing booster pump station, pressure reducing valves, and other water facility improvements. The facilities capital replacements project will facilitate maintaining building functionality by making needed updates and replacing portions of various facilities.

The Town operates five water treatment plants, many pump stations, PRVs, buildings, and office space. All of these facilities require maintenance and replacements of various items and equipment. Small projects to improve the functionality and/or appearance of Town facilities are necessary. These projects include drainage, landscaping, siding and roofing, and site improvements at existing pump stations. As buildings age, components will require replacement. As a formal asset management program develops, capital replacements will become well defined. This project is created to accommodate those needs. The existing access to many sites is unimproved or gravel access that requires ongoing maintenance, particularly during the winter. Snowplowing and access, in general, will be improved by paving and otherwise improving site access. These projects help Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

Expenditures	2022	2023	2024	2025	2026	Total
Facilities Paving Program	\$ 100,000	\$ 75,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 325,000
General Facility Upgrades	75,000	75,000	75,000	75,000	75,000	375,000
Facilities Capital Replacements	75,000	75,000	75,000	75,000	75,000	375,000
Total Expenditures	\$ 250,000	\$ 225,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,075,000

Funding Sources	2022	2023	2024	2025	2026	Total
Metered Water Sales	\$ 250,000	\$ 225,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,075,000
Total Funding Sources	\$ 250,000	\$ 225,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,075,000

Operational Impact

There are no additional future operating expenditures associated with rehabilitation/replacement.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

WATER RESOURCES FUND

CASTLE ROCK WATER

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
WISE Project	\$ 14,192,473	\$ 731,261	\$ 1,020,048	\$ 4,183,836	\$ 4,304,151	\$ 24,431,769
Castle Rock Reservoir System	6,780,000	440,000	4,440,000	-	-	11,660,000
Alternative Source of Supply Project	2,907,941	4,000,000	1,000,000	1,000,000	1,000,000	9,907,941
Miscellaneous Projects	425,000	850,000	-	275,000	2,550,000	4,100,000
Chatfield Reallocation Project	1,497,596	-	1,097,596	-	1,907,596	4,502,788
PCWPF Expansion	-	400,000	-	-	-	400,000
Rueter-Hess Water Purification Facility	-	-	4,050,000	4,050,000	-	8,100,000
Newlin Gulch Pipeline & Pump Station	10,000,000	-	-	-	-	10,000,000
Cherry Creek Basin Infrastructure	9,620,000	9,932,500	1,400,000	-	-	20,952,500
Advanced Metering Infrastructure	201,364	902,689	848,477	849,927	50,494	2,852,951
Total Expenditures by Year	\$45,624,374	\$ 17,256,450	\$ 13,856,121	\$ 10,358,763	\$ 9,812,241	\$ 96,907,949

Project Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ 14,989,593	\$ 5,396,741	\$ 4,292,523	\$ 3,137,916	\$ 3,221,377	\$ 31,038,149
Water Resources Fees	30,634,781	11,859,709	9,563,598	7,220,847	6,590,864	65,869,800
Total Funding Sources by Year	\$45,624,374	\$ 17,256,450	\$ 13,856,121	\$ 10,358,763	\$ 9,812,241	\$ 96,907,949

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Sedalia Pump Station

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

WISE Project

Project Number:	77-72		
Contact:	Matt Benak, Water Resources Manager	5 Year Historical Total	\$ 45,360,430
Department:	Castle Rock Water	2022-2026 Total	24,431,769
Category:	Water Rights	CIP Project Total (2017-2026):	\$ 69,792,199
Type:	Upgrade		
Useful Life:	Perpetual/50 years		

Description and Justification

The WISE (Water Infrastructure and Supply Efficiency) project is a part of the Town's Strategic goal to transition to a 75% renewable water supply for the future. As part of this strategy, sustainable water supplies must be imported to the Town with a focus on proximity and feasibility in order to help meet this goal. This project includes securing 2,000 acre-feet per year (AF/yr) (Castle Rock's original subscription plus 1,000 AF of the Douglas County Option water) of water on average from Denver and Aurora and will build infrastructure necessary to move water from the Peter Binney Water Purification Facility located near Aurora Reservoir to the Town of Castle Rock. This part of the project includes additional pipeline connections, and infrastructure expansion through Parker Water & Sanitation District's (PWSD) system.

Expenditures	2022	2023	2024	2025	2026	Total
WISE Infrastructure Local Partnership	\$ 13,000,000	\$ -	\$ -	\$ -	\$ -	\$ 13,000,000
PWSD Asset Recovery Charges	274,000	282,000	290,000	298,000	306,000	1,450,000
WISE Infrastructure Outlet at RHR	750,000	-	-	-	-	750,000
WISE Infrastructure Pipeline	-	-	-	2,875,000	2,875,000	5,750,000
WISE Option Agreement Reserve	168,473	449,261	730,048	1,010,836	1,123,151	3,481,769
Total Expenditures	\$ 14,192,473	\$ 731,261	\$ 1,020,048	\$ 4,183,836	\$ 4,304,151	\$ 24,431,769

Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ 4,683,516	\$ 241,316	\$ 336,616	\$ 1,380,666	\$ 1,420,370	\$ 8,062,484
Water Resources Fees	9,508,957	489,945	683,432	2,803,170	2,883,781	16,369,285
Total Funding Sources	\$ 14,192,473	\$ 731,261	\$ 1,020,048	\$ 4,183,836	\$ 4,304,151	\$ 24,431,769

Operational Impact

Operating costs for the WISE project will be variable based on actual annual water purchased and paid by rates and fees. Operational cost estimates are approximately \$5.2 million each year once the full WISE delivery schedule begins in 2026 and beyond and are incorporated in the Water Resources Fund's operations budget.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Castle Rock Reservoir System

Project Number:	79-15		
Contact:	Matt Benak, Water Resources Manager	5 Year Historical Total	\$ 90,094
Department:	Castle Rock Water	2022-2026 Total	<u>11,660,000</u>
Category:	Infrastructure	CIP Project Total (2017-2026):	\$ 11,750,094
Type:	Upgrade		
Useful Life:	50 years		

Description and Justification

This project includes the construction of a new 786 acre-foot raw water storage reservoir on the Plum Creek Trust property in Sedalia, Colorado, followed by a 327 acre-foot expansion of the existing Castle Rock Reservoir No. 1 reservoir on the same property in 2024. This additional storage space will allow Castle Rock Water to store fully-reusable effluent and junior water that is diverted from Plum Creek via the Plum Creek Diversion, so that the Town may use that water during the high demand season.

Expenditures	2022	2023	2024	2025	2026	Total
Castle Rock Reservoir No. 1 Expansion	\$ -	\$ 440,000	\$ 4,440,000	\$ -	\$ -	\$ 4,880,000
Castle Rock Reservoir No. 2	6,780,000	-	-	-	-	6,780,000
Total Expenditures	\$ 6,780,000	\$ 440,000	\$ 4,440,000	\$ -	\$ -	\$ 11,660,000

Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ 2,237,400	\$ 145,200	\$ 1,465,200	\$ -	\$ -	\$ 3,847,800
Water Resources Fees	4,542,600	294,800	2,974,800	-	-	7,812,200
Total Funding Sources	\$ 6,780,000	\$ 440,000	\$ 4,440,000	\$ -	\$ -	\$ 11,660,000

Operational Impact

The Castle Rock Reservoir system will need to be maintained on a regular basis for proper functionality. Operation and maintenance expenditures will increase to \$200,000 in 2024 and will be incorporated in the Water Resources Fund's operations budget.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Alternative Source of Supply Project

Project Number:	77-30, 75-46		
Contact:	Matt Benak, Water Resources Manager	5 Year Historical Total	\$ 18,534,793
Department:	Castle Rock Water	2022-2026 Total	9,907,941
Category:	Water Rights	CIP Project Total (2017-2026):	\$ 28,442,734
Type:	Upgrade		
Useful Life:	50 years		

Description and Justification

Sustainable water supplies must be imported to the Town with a focus on proximity and feasibility in order to meet the goal of 75% renewable water. This project entails importing an additional 2,500 acre-feet of renewable and fully consumable water from the South Platte River Basin, northeast of the Denver metro area. It includes the purchase of approximately 2,500 acre-feet of renewable surface water rights and all legal costs associated with enabling the water to be used in Castle Rock. It includes legal and engineering due diligence, construction of a well field on the Box Elder property (located in Weld County), demolishing current structures on Box Elder property, abandoning existing wells, developing new pumping systems, and raw water transmission pipelines. This project also includes obtaining capacity in East Cherry Creek Valley (ECCV) Water & Sanitation District's Northern Pipeline plus pump stations and treatment capacity in ECCV's water treatment plant.

Expenditures	2022	2023	2024	2025	2026	Total
Water Rights Acquisition	\$ -	\$ 2,700,000	\$ -	\$ -	\$ -	\$ 2,700,000
Box Elder Creek Project Due Diligence	600,000	300,000	-	-	-	900,000
Firm Capacity in ECCV Northern Line	1,307,941	-	-	-	-	1,307,941
Capacity in Xcel Pipeline	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
Total Expenditures	\$ 2,907,941	\$ 4,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 9,907,941

Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ 959,621	\$ 1,320,000	\$ 330,000	\$ 330,000	\$ 330,000	\$ 3,269,621
Water Resources Fees	1,948,320	2,680,000	670,000	670,000	670,000	6,638,320
Total Funding Sources	\$ 2,907,941	\$ 4,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 9,907,941

Operational Impact

Operating costs are not currently estimated as construction of infrastructure to move the water is not planned to begin until year 2030. The operational costs will be funded by rates.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Miscellaneous Projects

Project Number: Multiple		5 Year Historical Total	\$ 1,713,105
Contact: Matt Benak, Water Resources Manager		2022-2026 Total	4,100,000
Department: Castle Rock Water		CIP Project Total (2017-2026):	\$ 5,813,105
Category: Infrastructure			
Type: Upgrade			
Useful Life: 50 years			

Description and Justification

This capital improvement project addresses several needs including the construction of two additional Aquifer Storage and Recovery (ASR) wells, ASR control valve replacement, the redrill of certain Town alluvial wells, and additional stream gages to better administer certain water rights for the Town.

Expenditures	2022	2023	2024	2025	2026	Total
ASR Program	\$ 50,000	\$ 850,000	\$ -	\$ -	\$ 1,250,000	\$ 2,150,000
ASR Program Control Valve Replacement	275,000	-	-	275,000	-	550,000
Alluvial Well Redrill	-	-	-	-	1,300,000	1,300,000
Stream Gages	100,000	-	-	-	-	100,000
Total Expenditures	\$ 425,000	\$ 850,000	\$ -	\$ 275,000	\$ 2,550,000	\$ 4,100,000

Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ 140,250	\$ 280,500	\$ -	\$ 90,750	\$ 841,500	\$ 1,353,000
Water Resources Fees	284,750	569,500	-	184,250	1,708,500	2,747,000
Total Funding Sources	\$ 425,000	\$ 850,000	\$ -	\$ 275,000	\$ 2,550,000	\$ 4,100,000

Operational Impact

The new stream gauge and ASR wells will have operational impact and will be budgeted in the future following completion of projects.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Chatfield Reallocation Project

Project Number:	77-29, 78-03		
Contact:	Matt Benak, Water Resources Manager	5 Year Historical Total	\$ 2,621,012
Department:	Castle Rock Water	2022-2026 Total	4,502,788
Category:	Water Rights	CIP Project Total (2017-2026):	\$ 7,123,800
Type:	Upgrade		
Useful Life:	Perpetual		

Description and Justification

This project will fund the participation and maintenance costs of the Town's owned storage space (590 acre-feet) in the Chatfield Reservoir Reallocation Project. The Town plans to increase its ultimate storage capacity to 2,000 acre-feet over the next 13 years. This project has been identified as a critical component of the Town's Water Resources Strategic Master Plan, which includes maximizing the Town's existing supplies and finding the most efficient solutions to meet the Town's long term renewable water supply goals. Specifically, this storage space will allow enhanced management capabilities for the Town's Plum Creek water rights, including treated return flows in the Plum Creek basin, and native rights along Plum Creek and the South Platte River. This project is funded in partnership with multiple entities and managed by the Chatfield Reservoir Mitigation Company (CRMC), Castle Rock Water's portion is reflected in the numbers below. Additionally, Castle Rock will be determining how best to physically pump and transmit the stored Chatfield supplies back to the Town with the Chatfield West-Side Alternatives Project that may involve regional partnerships.

Expenditures	2022	2023	2024	2025	2026	Total
Additional Storage	\$ 1,097,596	\$ -	\$ 1,097,596	\$ -	\$ 1,097,596	\$ 3,292,788
Chatfield West-Side Alternatives Project	400,000	-	-	-	810,000	1,210,000
Total Expenditures	\$ 1,497,596	\$ -	\$ 1,097,596	\$ -	\$ 1,907,596	\$ 4,502,788

Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ 494,207	\$ -	\$ 362,207	\$ -	\$ 629,507	\$ 1,485,920
Water Resources Fees	1,003,389	-	735,389	-	1,278,089	3,016,868
Total Funding Sources	\$ 1,497,596	\$ -	\$ 1,097,596	\$ -	\$ 1,907,596	\$ 4,502,788

Operational Impact

Operating and maintenance expenses of the Town's capacity in the Chatfield Reservoir Storage Project are anticipated to be approximately \$256,000 to \$270,000 a year beginning in 2022 and beyond and are incorporated in the Water Resources Fund's operations budget.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

PCWPF Expansion

Project Number: 77-75

Contact: Matt Benak, Water Resources Manager

Department: Castle Rock Water

Category: Infrastructure

Type: Upgrade

Useful Life: 50 years

5 Year Historical Total \$ 33,801,616

2022-2026 Total 400,000

CIP Project Total (2017-2026): \$ 34,201,616

Description and Justification

Advanced treatment processes are necessary for the effective treatment of the Town's Plum Creek surface water and reuse water supplies. The future goal of the Town is to provide 75% renewable water supply annually to its customers and this project will be a key component to achieve that goal. This project includes the replacement of 2 million gallons per day of capacity of microfiltration membranes that were originally installed in 2013.

Expenditures	2022	2023	2024	2025	2026	Total
PCWPF Expansion	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ 400,000

Total Expenditures	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ 400,000
---------------------------	-------------	-------------------	-------------	-------------	-------------	-------------------

Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ -	\$ 132,000	\$ -	\$ -	\$ -	\$ 132,000
Water Resources Fees	-	268,000	-	-	-	268,000

Total Funding Sources	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ 400,000
------------------------------	-------------	-------------------	-------------	-------------	-------------	-------------------

Operational Impact

Estimated operation and maintenance costs for advanced treatment processes are estimated \$1.1 million in 2022 and beyond and are incorporated in the Water Resources Fund's operations budget.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Rueter-Hess Water Purification Facility Capacity

Project Number: 79-06	5 Year Historical Total	\$ -
Contact: Matt Benak, Water Resources Manager	2022-2026 Total	8,100,000
Department: Castle Rock Water	CIP Project Total (2017-2026):	\$ 8,100,000
Category: Infrastructure		
Type: Upgrade		
Useful Life: 50 years		

Description and Justification

This project involves purchasing 3 million gallons per day (MGD) of treatment capacity at Parker Water and Sanitation District's (PWSD's) Rueter-Hess Water Purification Facility (RHWPF) so that the Town can treat its stored water supplies from Rueter-Hess Reservoir. Eventually, Castle Rock plans to own 12 MGD of capacity in Parker's treatment plant.

Expenditures	2022	2023	2024	2025	2026	Total
Capacity in PWSD RHWTF	\$ -	\$ -	\$ 4,050,000	\$ 4,050,000	\$ -	\$ 8,100,000
Total Expenditures	\$ -	\$ -	\$ 4,050,000	\$ 4,050,000	\$ -	\$ 8,100,000

Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ -	\$ -	\$ 1,336,500	\$ 1,336,500	\$ -	\$ 2,673,000
Water Resources Fees	-	-	2,713,500	2,713,500	-	5,427,000
Total Funding Sources	\$ -	\$ -	\$ 4,050,000	\$ 4,050,000	\$ -	\$ 8,100,000

Operational Impact

Operational costs will likely be included in the treated water rate charged by PWSD to Castle Rock.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **Newlin Gulch Pipeline & Pump Station**

Project Number: 78-04	5 Year Historical Total \$ 224,321
Contact: Matt Benak, Water Resources Manager	2022-2026 Total <u>10,000,000</u>
Department: Castle Rock Water	CIP Project Total (2017-2026): \$ 10,224,321
Category: Infrastructure	
Type: New	
Useful Life: 50 Years	

Description and Justification

This project addresses permitting and construction of a new pump station, pipeline and outlet structure into Rueter-Hess Reservoir so that a portion of the Town's water rights can be transmitted for storage and, subsequently for treatment at Parker's Rueter Hess Reservoir Water Purification Facility (RHWPF). The initial project will be designed to move approximately 1,000 acre-feet of water per year.

Expenditures	2022	2023	2024	2025	2026	Total
Pump Station, Pipeline & Outlet Str.	\$ 10,000,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000
Total Expenditures	\$ 10,000,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000

Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ 3,300,000	\$ -	\$ -	\$ -	\$ -	\$ 3,300,000
Water Resources Fees	6,700,000	-	-	-	-	6,700,000
Total Funding Sources	\$ 10,000,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000

Operational Impact

The operational impact of this project will be known following project completion. These costs will primarily be related to electricity for pumping. Costs will be budgeted in the future when better understood.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **Cherry Creek Basin Infrastructure and Additional Water Rights**

Project Number:	79-17, 75-47		
Contact:	Matt Benak, Water Resources Manager	5 Year Historical Total	\$ 4,163,257
Department:	Castle Rock Water	2022-2026 Total	<u>20,952,500</u>
Category:	Infrastructure	CIP Project Total (2017-2026):	\$ 25,115,757
Type:	New		
Useful Life:	50 Years		

Description and Justification

As part of Castle Rock's goal towards 75% renewable water, the Town has become members of the Cherry Creek Project Water Authority (CCPWA). This membership gives Castle Rock access to approximately 247 acre-feet of renewable surface water annually (on average) within the Cherry Creek Basin as well as additional groundwater resources and junior water rights. The Town is seeking to put the renewable water to immediate use through a partnership with the Pinery. New infrastructure will need to be constructed to pump, transmit and store the Cherry Creek water rights to realize the maximum yield. Furthermore, additional monies are included in 2022 and 2023 for other renewable water rights opportunities that may become available in close proximity to Castle Rock.

Expenditures	2022	2023	2024	2025	2026	Total
Water Rights Acquisition	\$ 6,620,000	\$ 7,762,500	\$ -	\$ -	\$ -	\$ 14,382,500
CC Basin Infrastructure	3,000,000	2,170,000	1,400,000	-	-	6,570,000
Total Expenditures	\$ 9,620,000	\$ 9,932,500	\$ 1,400,000	\$ -	\$ -	\$ 20,952,500

Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ 3,174,600	\$ 3,277,725	\$ 462,000	\$ -	\$ -	\$ 6,914,325
Water Resources Fees	6,445,400	6,654,775	938,000	-	-	14,038,175
Total Funding Sources	\$ 9,620,000	\$ 9,932,500	\$ 1,400,000	\$ -	\$ -	\$ 20,952,500

Operational Impact

Operational and general dues for the CCPWA are included in Water Resources account number 211-4340-443.80-61 and are estimated at \$120,000 annually.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

STORMWATER FUND

CASTLE ROCK WATER

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Minor Drainageway Stabilization	\$ 190,927	\$ 282,428	\$ 204,525	\$ 155,318	\$ 155,318	\$ 988,516
Stream Stabilization	1,464,483	3,382,311	2,682,447	1,016,623	667,131	9,212,995
Detention Pond Retrofits	61,463	63,614	65,840	68,017	70,397	329,331
Watershed Master Plan Updates	507,313	461,456	477,606	621,744	229,505	2,297,624
Corrugated Metal Pipe Rehabilitation	295,021	305,347	316,034	326,480	337,907	1,580,789
Total Expenditures by Year	\$ 2,519,207	\$ 4,495,156	\$ 3,746,452	\$ 2,188,182	\$ 1,460,258	\$ 14,409,255

Project Funding Sources	2022	2023	2024	2025	2026	Total
Stormwater Charges	\$ 1,408,521	\$ 1,122,370	\$ 1,132,092	\$ 1,450,832	\$ 1,220,521	\$ 6,334,336
System Development Fees	1,110,686	3,372,786	2,614,360	737,350	239,737	8,074,919
Total Funding Sources by Year	\$ 2,519,207	\$ 4,495,156	\$ 3,746,452	\$ 2,188,182	\$ 1,460,258	\$ 14,409,255

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



East Plum Creek

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **Minor Drainageway Stabilization**

Project Number:	Multiple		
Contact:	David Van Dellen, Stormwater Manager	5 Year Historical Total	\$ 638,023
Department:	Castle Rock Water	2022-2026 Total	988,516
Category:	Infrastructure	CIP Project Total (2017-2026):	\$ 1,626,539
Type:	Repair		
Useful Life:	50 years		

Description and Justification

This project includes new infrastructure on small channel systems downstream of development to correct erosion where the existing minor drainageway system is incomplete. Minor drainageways are natural or engineered conveyance systems with an upstream drainage area less than 130 acres. If improvements are not made, these systems pose a potential public safety hazard and flood risk. These projects will provide improvements for adequate capacity based on growth and stabilization. Projects are divided between the Plum Creek Basin (PC) and the Cherry Creek Basin (CC). This project helps Castle Rock Water provide high quality water service to Town residents and businesses by managing stormwater runoff and flood risks. Funding for these improvements is split between stormwater charges and system development fees to account for existing infrastructure needs and impacts due to growth.

Expenditures	2022	2023	2024	2025	2026	Total
Minor Drainage Way Stab PC	\$ 104,093	\$ 107,737	\$ 111,507	\$ 84,679	\$ 84,679	\$ 492,695
Minor Drainage Way Stab CC	86,834	89,873	93,018	70,639	70,639	411,003
Minor Drainageway MP	-	84,818	-	-	-	84,818
Total Expenditures	\$ 190,927	\$ 282,428	\$ 204,525	\$ 155,318	\$ 155,318	\$ 988,516

Funding Sources	2022	2023	2024	2025	2026	Total
Stormwater Charges	\$ 119,410	\$ 180,389	\$ 127,915	\$ 97,140	\$ 97,140	\$ 621,994
System Development Fees	71,517	102,039	76,610	58,178	58,178	366,522
Total Funding Sources	\$ 190,927	\$ 282,428	\$ 204,525	\$ 155,318	\$ 155,318	\$ 988,516

Operational Impact

No additional operating expenditures or revenues are anticipated as a result of this project.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Stream Stabilization

Project Number: Multiple		
Contact: David Van Dellen, Stormwater Manager	5 Year Historical Total	\$ 1,744,595
Department: Castle Rock Water	2022-2026 Total	9,212,995
Category: Infrastructure	CIP Project Total (2017-2026):	\$ 10,957,590
Type: Repair		
Useful Life: 50 years		

Description and Justification

This project includes stream channel stabilization throughout Castle Rock. Tributaries are part of the major drainageway networks that include watersheds with an upstream area greater than 130 acres, also known as the 100-year floodplain. These projects were identified in the 2017 Stormwater Master Plan as a scheduled activity. Stream improvements generally include natural or engineered segments of vegetated stream between engineered hard points that reduce channel slope and erosive velocities. Improvements also ensure adequate flood capacity in the channel to reduce flood potential for adjacent properties. Improvements to the natural drainageway are required to mitigate development impacts that accelerate erosion and pose a potential public safety hazard if left unattended over time. This project will restore a sustainable channel system for water quality and flood control. The improvements will reduce channel erosion and protect adjacent property from loss during flooding. Projects are divided between the Plum Creek Basin (PC) and the Cherry Creek Basin (CC). This project helps Castle Rock Water provide high quality water service to Town residents and businesses by managing stormwater runoff and flood risks. Funding for these improvements is split between stormwater charges and system development fees to account for existing infrastructure needs and impacts due to growth. Stream Stabilization projects are listed below by year:

- 2022** - Omni Tributary, McMurdo Gulch
- 2023** - McMurdo Gulch, Gamble Ridge
- 2024** - McMurdo Gulch, Sellars Gulch, East Plum Creek
- 2025** - Parkview Tributary, East Plum Creek
- 2026** - Parkview Tributary

Expenditures	2022	2023	2024	2025	2026	Total
Total Drainage Way Stabilization PC	\$ 784,000	\$ 1,460,004	\$ 807,447	\$ 1,016,623	\$ 667,131	\$ 4,735,205
Total Drainage Way Stabilization CC	680,483	1,922,307	1,875,000	-	-	4,477,790
Total Expenditures	\$ 1,464,483	\$ 3,382,311	\$ 2,682,447	\$ 1,016,623	\$ 667,131	\$ 9,212,995

Funding Sources	2022	2023	2024	2025	2026	Total
Stormwater Charges	\$ 548,800	\$ 215,968	\$ 252,755	\$ 501,573	\$ 485,572	\$ 2,004,668
System Development Fees	915,683	3,166,343	2,429,692	515,050	181,559	7,208,327
Total Funding Sources	\$ 1,464,483	\$ 3,382,311	\$ 2,682,447	\$ 1,016,623	\$ 667,131	\$ 9,212,995

Operational Impact

No additional operating expenditures or revenues are anticipated as a result of this project.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **Detention Pond Retrofits**

Project Number: 77-18	5 Year Historical Total \$ 1,002,079
Contact: David Van Dellen, Stormwater Manager	
Department: Castle Rock Water	2022-2026 Total <u>329,331</u>
Category: Infrastructure	CIP Project Total (2017-2026): \$ 1,331,410
Type: Upgrade	
Useful Life: 50 years	

Description and Justification

This project includes regional detention pond retrofits to facilities that demonstrate an excessive operation and maintenance burden on the program. Generally, older water quality and detention facilities require upgrades to the outflow structure and other pond features to improve runoff circulation through the facility and reduce clogging potential. Ponds are evaluated on an ongoing basis and projects are identified as needed. This project helps Castle Rock Water provide high quality water service to Town residents and businesses by managing stormwater runoff and flood risks. Funding for this project is from monthly service charges to address existing infrastructure needs.

Expenditures	2022	2023	2024	2025	2026	Total
Detention Ponds	\$ 61,463	\$ 63,614	\$ 65,840	\$ 68,017	\$ 70,397	\$ 329,331
Total Expenditures	\$ 61,463	\$ 63,614	\$ 65,840	\$ 68,017	\$ 70,397	\$ 329,331

Funding Sources	2022	2023	2024	2025	2026	Total
Stormwater Charges	\$ 61,463	\$ 63,614	\$ 65,840	\$ 68,017	\$ 70,397	\$ 329,331
Total Funding Sources	\$ 61,463	\$ 63,614	\$ 65,840	\$ 68,017	\$ 70,397	\$ 329,331

Operational Impact

No additional operating expenditures or revenues are anticipated as a result of this project.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name Watershed Master Plan Updates

Project Number: 78-74		
Contact: David Van Dellen, Stormwater Manager	5 Year Historical Total	\$ 435,264
Department: Castle Rock Water	2022-2026 Total	2,297,624
Category: Infrastructure	CIP Project Total (2017-2026):	\$ 2,732,888
Type: Upgrade		
Useful Life: Perpetual		

Description and Justification

The Stormwater Capital Program includes updating 19 Major Drainageway Master Plans (MP) covering over 71 miles of floodplain system. Periodic updates to these plans are required to account for changes in watershed hydrology, stream stability assessment, and capital plan prioritization. It is estimated that approximately four plans will be updated annually over a five year period beginning in 2022. A master plan GIS database tool is needed to support modeling efforts, track capital completion status, and facilitate coordination with other stakeholder projects. This project helps Castle Rock Water provide high quality water service to Town residents and businesses by managing stormwater runoff and flood risks. Funding for chase drain installations is allocated to assist with excessive dry weather water over sidewalks in residential subdivisions. Chase drain installations are on a request bases and authorized following a monitoring period per the chase drain policy. Funds are allocated between rates and fees based on impacts estimated from existing development and growth.

Expenditures	2022	2023	2024	2025	2026	Total
Master Plan GIS Database Tool	\$ 61,462	\$ -	\$ -	\$ -	\$ -	\$ 61,462
Watershed MP Updates	245,851	254,456	263,361	400,000	-	1,163,668
Groundwater Infrastrucutre	200,000	207,000	214,245	221,744	229,505	1,072,494
Total Expenditures	\$ 507,313	\$ 461,456	\$ 477,606	\$ 621,744	\$ 229,505	\$ 2,297,624

Funding Sources	2022	2023	2024	2025	2026	Total
Stormwater Charges	\$ 383,827	\$ 357,052	\$ 369,548	\$ 457,622	\$ 229,505	\$ 1,797,554
System Development Fees	123,486	104,404	108,058	164,122	-	500,070
Total Funding Sources	\$ 507,313	\$ 461,456	\$ 477,606	\$ 621,744	\$ 229,505	\$ 2,297,624

Operational Impact

No additional operating expenditures or revenues are anticipated as a result of this project.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

WASTEWATER FUND

CASTLE ROCK WATER

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Lift Station Upgrades	\$ 410,000	\$ 420,000	\$ 370,000	\$ 370,000	\$ 370,000	\$ 1,940,000
Sewer Line Rehabilitation	1,400,000	2,450,000	2,400,000	2,600,000	2,400,000	11,250,000
Security System Improvements	39,000	372,000	229,000	310,000	25,000	975,000
PCWRA Projects	670,015	553,465	553,106	555,845	555,845	2,888,276
Prairie Hawk/Plum Creek Interceptors	-	-	50,000	1,910,789	-	1,960,789
Malibu Street Upsize	50,000	720,170	-	-	-	770,170
Kinner Street Bottleneck	-	50,000	2,245,000	-	-	2,295,000
Advanced Metering Infrastructure	201,364	902,689	848,477	849,927	50,494	2,852,951
Total Expenditures by Year	\$ 2,770,379	\$ 5,468,324	\$ 6,695,583	\$ 6,596,561	\$ 3,401,339	\$ 24,932,186

Project Funding Sources	2022	2023	2024	2025	2026	Total
Wastewater Service Charges	\$ 2,720,379	\$ 4,748,154	\$ 6,645,583	\$ 4,685,772	\$ 3,401,339	\$ 22,201,227
System Development Fees	50,000	720,170	50,000	1,910,789	-	2,730,959
Total Funding Sources by Year	\$ 2,770,379	\$ 5,468,324	\$ 6,695,583	\$ 6,596,561	\$ 3,401,339	\$ 24,932,186

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



PCWRA Facility

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Lift Station Upgrades

Project Number: Multiple		5 Year Historical Total	\$	416,934
Contact: Engineering Manager		2022-2026 Total		1,940,000
Department: Castle Rock Water		CIP Project Total (2017-2026): \$ 2,356,934		
Category: Equipment				
Type: Upgrade				
Useful Life: 20 years				

Description and Justification

The Lift Station Upgrades project is intended to accommodate multiple improvements to the Town's lift stations. The purpose of the pump and motor replacement project is to plan for the capital replacement of pumps and/or motors at wastewater lift stations. The lift stations transport wastewater over high points in the wastewater collection system to the Plum Creek Wastewater Reclamation Authority for treatment. Pump and motor replacements are identified annually or on an emergency basis.

Pumps and motors at wastewater lift stations have a finite service life and replacement must be planned on an ongoing basis. Employee safety and year round access to the lift station are accommodated through paving projects, since lift stations are typically checked multiple times per week. These projects address the community need of providing a safe and reliable wastewater collection system.

Variable Frequency Drive (VFD) replacement is needed at Wastewater facilities to replace VFD's which are obsolete.

Lift Station paving is needed to replace pavement at the Maher Lift Station access road in 2022.

Expenditures	2022	2023	2024	2025	2026	Total
Lift Station Rehab/Replacement	\$ 50,000	\$ 100,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000
Lift Station Pump and Motor Replacemen	100,000	100,000	100,000	100,000	100,000	500,000
WW Facility VFD Replacement	220,000	220,000	220,000	220,000	220,000	1,100,000
Maher Lift Station Access Road Paving	40,000	-	-	-	-	40,000
Total Expenditures	\$ 410,000	\$ 420,000	\$ 370,000	\$ 370,000	\$ 370,000	\$ 1,940,000

Funding Sources	2022	2023	2024	2025	2026	Total
Wastewater Service Charges	\$ 410,000	\$ 420,000	\$ 370,000	\$ 370,000	\$ 370,000	\$ 1,940,000
Total Funding Sources	\$ 410,000	\$ 420,000	\$ 370,000	\$ 370,000	\$ 370,000	\$ 1,940,000

Operational Impact

Improvements and replacements to equipment typically result in reduced maintenance costs, which are unknown until project implementation and will be incorporated at that time.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Sewer Line Rehabilitation

Project Number: 75-62
 Contact: Engineering Manager
 Department: Castle Rock Water
 Category: Infrastructure
 Type: Repair
 Useful Life: 50 years

5 Year Historical Total \$ 3,276,163
 2022-2026 Total 11,250,000
CIP Project Total (2017-2026): \$ 14,526,163

Description and Justification

This project is intended to rehabilitate or replace existing sewer lines due to age or failing infrastructure. This is an ongoing program and areas of focus are identified annually. The Engineering Division will work with the Operations Division to identify areas that need sewer improvements and coordinate with the Public Works Department to complete projects ahead of the Pavement Maintenance Program to minimize the impact of Townwide roadwork. The sewer rehabilitation program will address the requirements of Environmental Protection Agency's (EPA) Capacity, Management, Operation, and Maintenance (CMOM) programs.

Expenditures	2022	2023	2024	2025	2026	Total
Sewer Line Rehab/Replacement	\$ 1,400,000	\$ 2,000,000	\$ 2,400,000	\$ 1,500,000	\$ 2,400,000	\$ 9,700,000
Glovers Sewer Laterals	-	-	-	1,100,000	-	1,100,000
Prestwick Sewer Laterals	-	450,000	-	-	-	450,000
Total Expenditures	\$ 1,400,000	\$ 2,450,000	\$ 2,400,000	\$ 2,600,000	\$ 2,400,000	\$ 11,250,000

Funding Sources	2022	2023	2024	2025	2026	Total
Wastewater Service Charges	\$ 1,400,000	\$ 2,450,000	\$ 2,400,000	\$ 2,600,000	\$ 2,400,000	\$ 11,250,000
Total Funding Sources	\$ 1,400,000	\$ 2,450,000	\$ 2,400,000	\$ 2,600,000	\$ 2,400,000	\$ 11,250,000

Operational Impact

No additional operating expenditures or revenues are anticipated as a result of this project.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

PCWRA Projects

Project Number: Multiple		5 Year Historical Total	\$ 12,089,028
Contact: Engineering Manager		2022-2026 Total	2,888,276
Department: Castle Rock Water		CIP Project Total (2017-2026):	\$ 14,977,304
Category: Infrastructure			
Type: Replacement			
Useful Life: 50 years			

Description and Justification

The Town of Castle Rock does not perform wastewater treatment. The Plum Creek Water Reclamation Authority (PCWRA) is a regional reclamation facility that serves the Town of Castle Rock, Castle Pines, and Castle Pines North. The capital buy-in project accommodates the Town of Castle Rock's significant share of PCWRA debt which includes two Colorado Water Resources and Power Development Authority (2001 and 2002) loans and Clean Water Revenue Bonds Series 2005 for capacity expansion and treatment. This project also provides funding for capital repair and replacement including replacement of pumps, motors, blowers, and general facilities maintenance.

Expenditures	2022	2023	2024	2025	2026	Total
Capital Buy-In	\$ 270,015	\$ 73,465	\$ 73,106	\$ 75,845	\$ 75,845	\$ 568,276
PCWRA Rehab/Replacement	400,000	480,000	480,000	480,000	480,000	2,320,000
Total Expenditures	\$ 670,015	\$ 553,465	\$ 553,106	\$ 555,845	\$ 555,845	\$ 2,888,276

Funding Sources	2022	2023	2024	2025	2026	Total
Wastewater Service Charges	\$ 670,015	\$ 553,465	\$ 553,106	\$ 555,845	\$ 555,845	\$ 2,888,276
Total Funding Sources	\$ 670,015	\$ 553,465	\$ 553,106	\$ 555,845	\$ 555,845	\$ 2,888,276

Operational Impact

Operating expenditures for PCWRA are included in the capital buy-in payments displayed above.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Prairie Hawk/Plum Creek Interceptors

Project Number: 75-92, 77-64
 Contact: Engineering Manager
 Department: Castle Rock Water
 Category: Equipment
 Type: Upgrade
 Useful Life: 50 years

5 Year Historical Total \$ 101,624
 2022-2026 Total 1,960,789
CIP Project Total (2017-2026): \$ 2,062,413

Description and Justification

This project will provide for the need to upsize the sewer system along Prairie Hawk Drive. The original sewer line (interceptor) must be upsized to 18 or 21 inches along Prairie Hawk Drive south of Wolfensberger to meet future wastewater flows generated by growth in the Town. This interceptor would serve the proposed development at Miller's Landing, Castle Meadows, and Dawson Trails, and could potentially be delayed based on the pace of development in the area. Plum Creek Interceptor requires upsizing in areas to accommodate future development.

Expenditures	2022	2023	2024	2025	2026	Total
Prarie Hawk Interceptor	\$ -	\$ -	\$ 50,000	\$ 649,079	\$ -	\$ 699,079
Plum Creek Interceptor North Upsize	-	-	-	1,071,437	-	1,071,437
Plum Creek Interceptor Old WWTP Upsize	-	-	-	190,273	-	190,273
Total Expenditures	\$ -	\$ -	\$ 50,000	\$ 1,910,789	\$ -	\$ 1,960,789

Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ -	\$ -	\$ 50,000	\$ 1,910,789	\$ -	\$ 1,960,789
Total Funding Sources	\$ -	\$ -	\$ 50,000	\$ 1,910,789	\$ -	\$ 1,960,789

Operational Impact

No additional operating expenditures or revenues are anticipated as a result of this project.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Malibu Street Upsize

Project Number: 79-08
 Contact: Engineering Manager
 Department: Castle Rock Water
 Category: Infrastructure
 Type: Upgrade
 Useful Life: 50 years

5 Year Historical Total \$ 447,264
 2022-2026 Total 770,170
CIP Project Total (2017-2026): \$ 1,217,434

Description and Justification

The Malibu Street Upsize Phase 2 project replaces 1,300 linear feet of existing 12 and 15-inch clay pipe to 18 or 21-inch PVC from the intersection of Prairie Hawk and Wolfensberger, to the Phase 1 sewer in Park Street in the Village North neighborhood. Upstream development is contributing to the cost of the project through system development fees. Phase II of the project will upsize an upstream segment to accommodate future flows and includes a bored installation under the railroad.

Expenditures	2022	2023	2024	2025	2026	Total
Malibu Street Upsize Phase 2	\$ 50,000	\$ 720,170	\$ -	\$ -	\$ -	\$ 770,170

Total Expenditures \$ 50,000 \$ 720,170 \$ - \$ - \$ - \$ 770,170

Funding Sources	2022	2023	2024	2025	2026	Total
System Development Fees	\$ 50,000	\$ 720,170	\$ -	\$ -	\$ -	\$ 770,170

Total Funding Sources \$ 50,000 \$ 720,170 \$ - \$ - \$ - \$ 770,170

Operational Impact

No additional operating expenditures or revenues are anticipated as a result of this project.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Kinner Street Bottleneck

Project Number: 75-81
 Contact: Engineering Manager
 Department: Castle Rock Water
 Category: Infrastructure
 Type: Upgrade
 Useful Life: 50 years

5 Year Historical Total \$ -
 2022-2026 Total 2,295,000
CIP Project Total (2017-2026): \$ 2,295,000

Description and Justification

This project is to upsize nearly 3,000 linear feet of existing 18 and 21-inch sanitary sewer mains to 21 and 24-inch on Kinner Street. This project involves a broad crossing of I-25, East Plum Creek, and Wolfensberger Road. Hydraulic modeling does not indicate capacity issues at this time. However, increasing density downtown and in Lanterns, Crystal Valley Ranch could have an impact. The sewer main may need rehabilitation instead of full replacement.

Expenditures	2022	2023	2024	2025	2026	Total
Kinner Street Bottleneck	\$ -	\$ 50,000	\$ 2,245,000	\$ -	\$ -	\$ 2,295,000
Total Expenditures	\$ -	\$ 50,000	\$ 2,245,000	\$ -	\$ -	\$ 2,295,000

Funding Sources	2022	2023	2024	2025	2026	Total
Wastewater Service Charges	\$ -	\$ 50,000	\$ 2,245,000	\$ -	\$ -	\$ 2,295,000
Total Funding Sources	\$ -	\$ 50,000	\$ 2,245,000	\$ -	\$ -	\$ 2,295,000

Operational Impact

No additional operating expenditures or revenues are anticipated as a result of this project.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

FLEET SERVICES FUND

PUBLIC WORKS DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Vehicles and Equipment	\$3,519,440	\$3,279,545	\$2,887,295	\$2,791,631	\$3,114,447	\$15,592,358
Total Expenditures by Year	\$3,519,440	\$3,279,545	\$2,887,295	\$2,791,631	\$3,114,447	\$15,592,358

Project Funding Sources	2022	2023	2024	2025	2026	Total
Vehicle Replacement Contributions	\$2,296,696	\$2,996,849	\$2,642,700	\$2,554,385	\$2,853,895	\$13,344,525
Vehicle Salvage	202,747	282,696	244,595	237,246	260,552	1,227,836
Transfers from Other Funds	1,019,997	-	-	-	-	1,019,997
Total Funding Sources by Year	\$3,519,440	\$3,279,545	\$2,887,295	\$2,791,631	\$3,114,447	\$15,592,358

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program. On the new few pages, the bolded vehicles are the new additions.

Summary of 2022 Vehicle Additions

Department	Make & Model	Estimated Cost	Justification
Police	Ford Utility	\$ 65,000	The Police Department requests one additional vehicle related to the addition of one community action team (CAT) officer.
Police	Ford Utility	65,000	The Police Department requests one additional vehicle related to the addition of one community action team (CAT) sergeant.
Police	Ford Utility	65,000	The Police Department requests one additional vehicle related to the addition of one community partnership unit (CPU) officer.
Police	Ford Utility	65,000	The Police Department requests one additional vehicle related to the addition of one community partnership unit (CPU) officer.
Fire and Rescue	Ford Escape	100,000	The Fire Department requests one additional vehicle related to the addition of one Shift Training Officer.
Public Works	Asphalt Truck	218,630	The Public Works Department requests an asphalt truck to maintain levels of service for the roadway maintenance program.
Fleet	Ford Escape-Electric	45,000	Fleet is requesting the addition of one electric vehicle to use in the pool.
Castle Rock Water	Ford F-150 SSV	43,000	Castle Rock Water requests one additional vehicle related to the addition of one Meter Technician.
Castle Rock Water	Wheeled Excavator	350,000	Castle Rock Water requests a wheeled excavator to maintain levels of service for infrastructure.
Total		\$1,016,630	

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Vehicles and Equipment

Project Number: 70-40

Contact: Paul Colell, Fleet Manager

Department: Public Works Department

Category: Vehicles

Useful Life: 4-15 years

5 Year Historical Total \$ 12,532,520

2022-2026 Total 15,592,358

CIP Project Total (2017-2026): \$ 28,124,878

Description and Justification

The vehicle replacement program is funded through departmental contributions made to the Fleet Fund, which is an internal service fund intended for replacement and maintenance of Town vehicles and equipment. Departments that operate vehicles and equipment enrolled in the vehicle replacement program budget vehicle replacement contributions annually for the purpose of replacing existing units. The units in the following pages include vehicles scheduled for replacement. However, vehicles and equipment lives may be extended or replaced earlier if necessary. The inflation rate assumed for future vehicle purchases varies by vehicle type, with an average of about three percent. In accordance with the Town's vehicle replacement policy, unit age, usage, and historical maintenance costs are used to determine the replacement timing of vehicles and equipment in the program. The Town uses the best practice method recommended by the American Public Works Association. Other factors include type of use, operating weather conditions, and operating terrain. Once a vehicle has met the replacement criteria, there is a thorough review process by Fleet management, the operating department, and the Fleet Advisory Committee to determine if the vehicle should be replaced, retained for limited use, or to extend the vehicles life cycle. Because vehicles may be equipped with different equipment based upon their usage, the cost for similar vehicles will vary. Additionally, three percent of the total anticipated vehicle purchase amount is budgeted in order to accommodate unforeseen variances in vehicle purchase amounts.

The following pages detail the requested replacements and additions to the Town's fleet by department.

Expenditures	2022	2023	2024	2025	2026	Total
Vehicles & Equipment	\$ 3,519,440	\$ 3,279,545	\$ 2,887,295	\$ 2,791,631	\$ 3,114,447	\$ 15,592,358
Total Expenditures	\$ 3,519,440	\$ 3,279,545	\$ 2,887,295	\$ 2,791,631	\$ 3,114,447	\$ 15,592,358

Funding Sources	2022	2023	2024	2025	2026	Total
Vehicle Replacement Contributions	\$ 2,296,696	\$ 2,996,849	\$ 2,642,700	\$ 2,554,385	\$ 2,853,895	\$ 13,344,525
Vehicle Salvage	202,747	282,696	244,595	237,246	260,552	1,227,836
Transfers from Other Funds	1,019,997	-	-	-	-	1,019,997
Total Funding Sources	\$ 3,519,440	\$ 3,279,545	\$ 2,887,295	\$ 2,791,631	\$ 3,114,447	\$ 15,592,358

Operational Impact

Increases in operational expenditures, including gasoline and maintenance for 2022 are primarily related to vehicle additions, and are estimated to be approximately \$12,000. Additional amounts are included for operational needs.

2022 Schedule of Vehicle & Equipment Purchase

Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Facilities Department			
Trucks, Medium Duty	Ford F-350 SD	\$ 5,999	\$ 49,988
Vans < 10K GVWR Passenger/Cargo	Ford E250	4,385	36,540
Vans < 10K GVWR Passenger/Cargo	Ford E250	3,526	29,382
Total Facilities Department	3	\$ 13,910	\$ 115,910
Police Department			
SUV, Police Patrol	Ford Utility AWD	6,366	63,183
SUV, Police Patrol	Ford Utility AWD	6,859	68,070
SUV, Police Patrol	Ford Utility AWD	6,900	68,478
SUV, Police Patrol	Ford Utility AWD	6,800	67,483
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,849	53,442
SUV, Police Patrol	Ford Utility AWD	-	65,000
SUV, Police Patrol	Ford Utility AWD	-	65,000
SUV, Police Patrol	Ford Utility AWD	-	65,000
SUV, Police Patrol	Ford Utility AWD	-	65,000
Total Police Department	9	\$ 31,774	\$ 580,655
Fire Department			
Trailers Medium, Light	Bauer TCOM-25	10,800	152,025
Fire, Response, Ambulance	Ford F450	22,637	224,664
Trucks, Light Duty	Ford F-150 SSV	4,166	45,921
SUV, Public Safety, Police, Fire	Ford Escape	-	100,000
Total Fire Department	4	\$ 37,603	\$ 522,609
Development Services Department			
SUV, General Purpose, Light Duty	Jeep Liberty	2,171	25,662
SUV, General Purpose, Light Duty	Chevrolet Equinox	2,628	31,060
Total Development Services Department	2	\$ 4,799	\$ 56,722

* Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2022 Schedule of Vehicle & Equipment Purchase (Continued)

Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Transportation Fund			
Sweepers	Elgin NP Pelican	\$ 19,371	\$ 237,097
Equipment, Off-Road, Loaders, Tractors, Graders	Sullair 260DPQ	2,365	27,953
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	14,994	183,528
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	19,176	234,710
Trailers Heavy	Trail-Eze PDLX20TC30	3,177	61,242
Trailers Medium, Light	Big Tex 30SA	119	1,999
Trailers Medium, Light	Safe-Stop	2,590	36,461
Trucks, Light Duty	Ford F-150	3,334	38,048
Trucks Heavy Duty, Snow Removal, Construction Dumps	Asphalt Patch Truck	-	221,997
Total Transportation Fund	9	\$ 65,126	\$ 1,043,035
Fleet Fund			
SUV, General Purpose, Light Duty	Ford Escape-Electric	-	45,000
	1	\$ -	\$ 45,000
Parks & Recreation Department			
Trucks, Medium Duty	Ford F-350 SD	3,168	41,588
Equipment, Off-Road, Light duty, Mowers, Carts, Skid Steers, Plows	Scag Tiger Cat STC61V	1,001	10,284
Total Parks & Recreation Department	2	\$ 4,169	\$ 51,872
Castle Rock Water Department			
SUV, General Purpose, Light Duty	Jeep Liberty	2,634	35,810
Equipment, Off-Road, Loaders, Tractors, Graders	Wachs 77-000-36	7,569	92,639
Trucks, Light Duty	Ford F-150	2,885	34,103
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	9,127	133,039
Trucks, Light Duty	Ford F-150	2,862	33,825
SUV, General Purpose, Light Duty	Chevrolet Equinox	2,583	29,484
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Caterpillar 930H	17,706	249,230
Trucks, Medium Duty	Ford F-150 SSV	-	43,000
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Cat M316	-	350,000
Total Castle Rock Water Department	9	\$ 45,366	\$ 1,001,129
Total - All Departments		\$ 202,747	\$ 3,416,932
3% Contingency			102,508
2022 Vehicle & Equipment Replacement Total	38	\$ 202,747	\$ 3,519,440

* Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2023 Schedule of Vehicle & Equipment Purchase

Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Facilities Department			
Trucks, Medium Duty	Ford F-350 SD	\$ 4,407	\$ 53,943
Total Facilities Department		1 \$ 4,407	\$ 53,943
Police Department			
SUV, Police Patrol	Ford Utility AWD	8,785	73,206
SUV, Public Safety, Police, Fire	Ford Utility AWD	6,070	50,583
SUV, Police Patrol	Ford Utility AWD	8,183	68,192
SUV, Public Safety, Police, Fire	Ford Utility AWD	6,078	50,651
SUV, Police Patrol	Ford Utility AWD	8,180	68,166
SUV, Public Safety, Police, Fire	Ford Utility AWD	6,110	50,916
SUV, Police Patrol	Ford Utility AWD	8,180	68,166
SUV, Police Patrol	Ford Utility AWD	8,802	73,349
SUV, Public Safety, Police, Fire	Ford Utility AWD	6,502	54,182
SUV, Public Safety, Police, Fire	Ford Utility AWD	6,503	54,188
SUV, Public Safety, Police, Fire	Ford Utility AWD	6,100	50,833
SUV, Public Safety, Police, Fire	Ford Utility AWD	6,016	50,136
Total Police Department		12 \$ 85,509	\$ 712,568
Fire Department			
Fire, Response, Ambulance	Ford F-450	22,919	235,552
Trucks, Medium Duty	Chevrolet Silverado 3500	5,216	61,646
SUV, Public Safety, Police, Fire	Ford Expedition	7,300	83,325
SUV, Public Safety, Police, Fire	Ford Expedition	5,187	57,174
Total Fire Department		4 \$ 40,622	\$ 437,697
Development Services Department			
SUV, General Purpose, Light Duty	Ford Escape SE	2,839	33,559
SUV, General Purpose, Light Duty	Ford Escape SE	2,756	32,575
SUV, General Purpose, Light Duty	Ford Escape SE	2,280	32,681
SUV, General Purpose, Light Duty	Ford Escape SE	2,765	32,587
SUV, General Purpose, Light Duty	Ford Escape SE	2,757	33,548
SUV, General Purpose, Light Duty	Ford Escape SE	2,838	31,060
Total Development Services Department		6 \$ 16,235	\$ 196,010

* Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2023 Schedule of Vehicle & Equipment Purchase

Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Transportation Fund			
Heavy Equipment, Off-Road, Loaders, Tractors, Graders	John Deere 4720	\$ 5,272	\$ 71,659
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Caterpillar 143H	23,430	392,787
Equipment, Off-Road, Loaders, Tractors, Graders	Miller Bobcat 250NT	392	6,579
Trucks, Light Duty	Ford F-150	2,918	34,492
Trucks, Light Duty	Ford F-150 SSV	3,489	41,237
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	14,994	190,056
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	14,994	190,056
Trucks, Medium Duty	Ford F-350 SD	5,040	59,573
Trucks, Medium Duty	Ford F-350 SD	5,213	61,617
Trucks, Medium Duty	Ford F-250 SD	3,766	42,980
Trucks, Medium Duty	Ford F-350 SD	5,721	63,057
Total Transportation Fund	11	\$ 85,229	\$ 1,154,093
Parks & Recreation Department			
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat 5600	6,481	71,429
Equipment, Off-Road, Light duty, Mowers, Carts, Skid Steers, Plows	John Deere HPX 4x4	1,155	12,726
Trucks, Light Duty	Ford F-150	2,469	29,180
Trucks, Light Duty	Ford F-150	2,587	30,577
Equipment, Off-Road, Loaders, Tractors, Graders	Kubota RTV400CI-H	953	11,264
Equipment, Off-Road, Loaders, Tractors, Graders	Kubota RTV400CI-H	927	10,956
Equipment, Off-Road, Light duty, Mowers, Carts, Skid Steers, Plows	Toro 4300-D	6,195	65,939
Total Parks & Recreation Department	7	\$ 20,767	\$ 232,071
Community Center Fund			
Vans < 10K GVWR Passenger/Cargo	Ford E-350 SD	2,495	35,114
Vans < 10K GVWR Passenger/Cargo	Ford E-350 SD	2,484	34,961
Total Community Center Fund	2	\$ 4,979	\$ 70,076
Castle Rock Water Department			
Trucks, Medium Duty	Chevrolet C-5500	7,399	124,046
Trucks, Light Duty	Ford F-150	2,506	29,616
Trailers Medium, Light	Wacker LTC 4L	857	14,364
SUV, General Purpose, Light Duty	Ford Explorer	3,766	41,502
Trucks, Light Duty	Ford F-150	3,303	36,408
Trucks, Medium Duty	Ford F-350 SD	7,117	81,630
Total Castle Rock Water Department	6	\$ 24,948	\$ 327,566
Total - All Departments		\$ 282,696	\$ 3,184,024
3% Contingency			95,521
2023 Vehicle & Equipment Replacement Total	49	\$ 282,696	\$ 3,279,545

* Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2024 Schedule of Vehicle & Equipment Purchase

Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Facilities Department			
Trucks, Medium Duty	Ford F-250 SD	\$ 3,866	\$ 45,690
Total Facilities Department	1	\$ 3,866	\$ 45,690
Police Department			
SUV, Police Patrol	Ford Utility AWD	7,352	72,961
SUV, Police Patrol	Ford Utility AWD	6,475	76,531
SUV, Police Patrol	Ford Utility AWD	7,483	74,265
SUV, Police Patrol	Ford Utility AWD	7,351	72,957
SUV, Police Patrol	Ford Utility AWD	6,486	76,659
SUV, Public Safety, Police, Fire	Ford Utility AWD	7,376	75,810
SUV, Public Safety, Police, Fire	Ford Utility AWD	6,302	69,454
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,978	54,867
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,966	54,735
SUV, Public Safety, Police, Fire	Fore Escape SE	2,762	30,446
SUV, Police Patrol	Ford Utility AWD	7,294	72,390
Total Police Department	11	\$ 68,825	\$ 731,075
Fire Department			
Fire, Response, Ambulance	Ford F-450	23,464	241,156
SUV, Public Safety, Police, Fire	Ford Explorer	3,567	39,317
SUV, Public Safety, Police, Fire	Ford Explorer	3,567	39,317
SUV, Public Safety, Police, Fire	Ford Utility Interceptor	4,603	50,734
Total Fire Department	4	\$ 35,201	\$ 370,523
Development Services			
Trucks, Light Duty	Ford F-150	2,655	31,379
Trucks, Light Duty	Ford F-150	2,813	33,251
Trucks, Light Duty	Ford F-150	2,555	30,200
Trucks, Light Duty	Ford F-150	2,768	32,714
Total Development Services Fund	4	\$ 10,791	\$ 127,545

* Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2024 Schedule of Vehicle & Equipment Purchase (Continued)

Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Transportation Fund			
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Volvo BL70B	\$ 9,634	\$ 122,111
Sweepers	Schwarze A7000	25,288	298,895
Medium Duty Equipment, Sweepers	Freightliner	31,255	344,482
Trucks, Light Duty	Ford F-150 SSV	3,334	38,048
Total Transportation Fund	4	\$ 69,511	\$ 803,536
Parks & Recreation Department			
Trucks, Medium Duty	Ford F-250 SD	3,732	44,116
Equipment, Off-Road, Mowers, Carts, Skid Steers, Plows	Z-Master 5000	1,411	14,002
Equipment, Off-Road, Mowers, Carts, Skid Steers, Plows	Kohler Pro-EFI	1,154	11,457
Equipment, Off-Road, Mowers, Carts, Skid Steers, Plows	Z-Master 5000	1,411	14,002
Trailers Medium, Light	Vermeer BC1400XL	3,462	61,611
Trucks, Light Duty	Ford F-150	3,155	36,190
Total Parks & Recreation Department	6	\$ 14,325	\$ 181,377
Golf Department			
Trucks, Light Duty	Chevrolet Colorado	2,360	33,215
Total Golf Department	1	\$ 2,360	\$ 33,215
Community Center Fund			
Vans < 10K GVWR Passenger/Cargo	Ford E-350 SD	2,697	37,969
Total Community Center Department	1	\$ 2,697	\$ 37,969
Castle Rock Water Department			
Trucks, Light Duty	Ford F-150	3,470	41,019
Trailers Medium, Light	Cornell 3HC-RP-EM16	5,940	110,587
Sedan General Purpose	Chevrolet Impala LS	2,265	28,716
Trucks, Light Duty	Ford F-150 SSV	2,684	31,722
Equipment, Off-Road, Loaders, Tractors, Graders	Vermeer S800TX	4,341	47,841
Trucks, Light Duty	Ford F-150 SSV	3,239	38,280
Trucks, Light Duty	Ford F-150 SSV	3,681	40,568
Equipment, Off-Road, Loaders, Tractors, Graders	Vermeer S800TX	2,902	34,296
Trucks, Medium Duty	Ford F-350 SD	4,588	56,160
Trucks, Light Duty	Ford F-150	3,909	43,081
Total Castle Rock Water Department	10	\$ 37,019	\$ 472,269
Total - All Departments		\$ 244,595	\$ 2,803,199
3% Contingency			84,096
2024 Vehicle & Equipment Replacement Total	42	\$ 244,595	\$ 2,887,295

* Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2025 Schedule of Vehicle & Equipment Purchase

Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Facilities Department			
Trucks, Medium Duty	Ford F-150	\$ 4,633	\$ 54,763
Trucks, Light Duty	Ford F-350 SD	3,239	41,053
Total Facilities Department	2	\$ 7,872	\$ 95,816
Police Department			
SUV, Police Patrol	Ford Utility AWD	7,306	72,507
SUV, Police Patrol	Ford Utility AWD	7,923	78,631
Trucks, Light Duty	Ford F-150 SSV	5,336	63,065
SUV, Police Patrol	Ford Utility AWD	7,237	71,827
SUV, Police Patrol	Ford Utility AWD	7,389	78,637
SUV, Public Safety, Police, Fire	Ford Expedition	6,745	71,789
SUV, Public Safety, Police, Fire	Ford Utility AWD	6,806	69,948
Equipment, Off-Road, Loaders, Tractors, Graders	Polaris Ranger 800	2,051	26,001
Total Police Department	8	\$ 50,793	\$ 532,405
Fire Department			
Trucks, Light Duty	Ford F-150	5,895	64,973
Trucks, Medium Duty	GMC Sierra 2500HD	7,169	79,019
Fire Response, Brush Trucks, Hazmat	Dodge Ram 5500	26,189	259,912
Equipment, Off-Road, Loaders, Tractors, Graders	John Deere 855D Gator	2,576	30,451
Total Fire Department	4	\$ 41,829	\$ 434,354
Development Services			
SUV, General Purpose, Light Duty	Ford Escape SE	2,494	29,483
SUV, General Purpose, Light Duty	Ford Escape SE	2,817	33,297
Total Development Services Fund	2	\$ 5,311	\$ 62,780
Transportation Fund			
Equipment, Off-Road, Loaders, Tractors, Graders	Caterpillar CB334D	5,592	111,645
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	18,252	231,352
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	18,254	231,380
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Bobcat S570	3,694	46,821
Total Transportation Fund	4	\$ 45,792	\$ 621,198

* Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2025 Schedule of Vehicle & Equipment Purchase (Continued)

Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Fleet Fund			
SUV, General Purpose, Light Duty	Ford Escape	\$ 2,843	\$ 33,605
Sedan General Purpose	Ford Fusion-Hybrid	2,811	33,223
Total Fleet Department	2	\$ 5,654	\$ 66,828
Parks & Recreation Department			
Trucks Medium Duty	Ford F-350 SD	5,273	64,545
Equipment, Off-Road, Light Duty, Mowers, Carts, Skid Steers, Plows	Advance Exterra	4,427	56,118
Equipment, Off-Road, Loaders, Tractors, Graders	Honda TRX500	1,299	15,351
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat 5600	5,687	67,219
Trucks, Light Duty	Ford F-150	3,540	41,839
Trucks, Medium Duty	Ford F-250 SD	3,747	41,302
Trucks, Medium Duty	Ford F-250 SD	5,517	60,812
Trucks, Medium Duty	Ford F-250 SD	5,517	60,802
Trailers Medium, Light	Vermeer BC1400XL	4,856	51,686
Equipment, Off-Road, Mowers, Carts, Skid Steers, Plows	Z-Master 5000	1,457	14,456
Total Parks & Recreation Department	10	\$ 41,320	\$ 474,130
Golf Department			
Trucks, Light Duty	Chevrolet Colorado	3,706	30,881
Total Golf Department	1	\$ 3,706	\$ 30,881
Castle Rock Water Department			
Specialized Equipment, Other Small Equipment	Bobcat 250NT	392	7,056
Trucks, Light Duty	Ford F-150	3,833	42,245
Trucks, Light Duty	Ford F-150	4,235	46,682
Trucks, Light Duty	Ford F-150	4,609	50,799
Trucks, Medium Duty	Ford F-250	3,301	39,010
Trucks, Light Duty	Ford F-150	4,056	44,701
Trucks, Light Duty	Ford F-150	3,968	43,739
Trucks, Light Duty	Ford F-150	2,897	33,063
Trucks, Light Duty	Chevrolet Colorado	3,101	34,182
Trucks, Medium Duty	Ford F-250	4,577	50,451
Total Castle Rock Water Department	10	\$ 34,969	\$ 391,927
Total - All Departments		\$ 237,246	\$ 2,710,321
3% Contingency			81,310
2025 Vehicle & Equipment Replacement Total	43	\$ 237,246	\$ 2,791,631

* Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2026 Schedule of Vehicle & Equipment Purchase

Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Police Department			
SUV, Police Patrol	Ford Utility Interceptor	\$ 7,440	\$ 73,838
SUV, Police Patrol	Ford Utility Interceptor	7,396	73,397
SUV, Police Patrol	Ford Utility Interceptor	7,440	73,838
SUV, Police Patrol	Ford Utility Interceptor	7,440	73,838
SUV, Police Patrol	Ford Utility Interceptor	7,254	74,553
SUV, Police Patrol	Ford Utility Interceptor	7,440	73,838
SUV, Police Patrol	Ford Utility Interceptor	7,440	73,838
SUV, Police Patrol	Ford Utility Interceptor	7,440	73,838
SUV, Public Safety, Police, Fire	Ford Utility AWD	6,100	67,237
SUV, Police Patrol	Ford Utility Interceptor	7,440	73,838
SUV, Police Patrol	Ford Utility Interceptor	7,440	73,838
Trucks, Light Duty	Ford Ranger	4,922	50,584
Total Police Department	12	\$ 85,192	\$ 856,479
Fire Department			
Trucks Medium Duty	Ford F-350	6,868	81,173
Trucks Medium Duty	Ford F-350	9,395	111,048
Total Fire Department	2	\$ 16,263	\$ 192,220
Development Services Department			
Trucks, Light Duty	Ford F-150	2,897	34,239
Trucks, Light Duty	Ford F-150	3,120	36,878
Trucks, Light Duty	Ford F-150	3,142	37,137
Total Development Services Department	3	\$ 9,159	\$ 108,254
Transportation Fund			
Heavy Equipment, Loader, Grader, Backhoe, Tractor	Caterpillar-930G	16,176	271,177
Specialized Equipment, Other Small Equipment	Target Pro66-36	2,113	35,420
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	18,231	231,084
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	18,250	231,325
Trucks, Medium Duty	Ford F-350 SD	7,011	77,274
Trucks Light Duty	Ford F-150	3,421	40,440
Trucks Light Duty	Ford F-150	3,353	36,957
Total Transportation Fund	7	\$ 68,555	\$ 923,678

* Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2026 Schedule of Vehicle & Equipment Purchase (Continued)

Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Parks & Recreation Department			
Equipment, Off-Road, Loaders, Tractors, Graders	Sullair 200H-DPQ	\$ 2,282	\$ 28,924
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat S570	4,446	52,549
Equipment, Off-Road, Light duty, Mowers, Carts, Skid Steers, Plows	Toro 4300-D	8,235	87,642
Trucks Light Duty	Ford F-150	4,177	49,365
Trucks, Light Duty	Chevrolet Colorado	3,314	39,170
Trucks, Light Duty	Chevrolet Colorado	4,012	44,220
Trucks, Light Duty	Chevrolet Colorado	3,293	36,293
Total Parks & Recreation Department	7	\$ 29,759	\$ 338,163
Castle Rock Water Department			
Trucks Light Duty	Ford F-150	2,682	33,994
Trucks, Medium Duty	International Terrastar	8,573	108,660
Trucks Light Duty	Ford F-150	2,655	33,652
Trucks Light Duty	Ford F-150	3,723	44,000
SUV, General Purpose, Light Duty	Toyota Rav4 Hybrid	3,248	35,801
Trucks Light Duty	Ford F-150	2,897	34,239
Trucks Light Duty	Ford F-150	3,312	39,148
Trucks Light Duty	Ford F-150	2,897	34,239
Trucks Light Duty	Ford F-150	3,421	40,433
Trucks, Medium Duty	Ford F-350 SD	4,836	53,299
Trucks, Medium Duty	Ford F-350 SD	5,453	60,105
Trucks, Medium Duty	Ford F-350 SD	7,927	87,372
Total Castle Rock Water Department	12	\$ 51,624	\$ 604,941
Total - All Departments		\$ 260,552	\$ 3,023,735
3% Contingency			90,712
2026 Vehicle & Equipment Replacement Total	43	\$ 260,552	\$ 3,114,447

* Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Red Hawk Ridge Golf Carts

Project Number: 70-30

Contact: Brian Erickson, Head Golf Professional

Department: Golf

Category: Equipment

Type: New

Useful Life: Four years

5 Year Historical Total \$ 300,148

2022-2026 Total 438,185

CIP Project Total (2017-2026): \$ 738,333

Description and Justification

The existing cart fleet at Red Hawk Ridge is in its third year of service of the four year lease. In time the fleet will show signs of wear and tear due to ongoing demands and usage. In order to maintain high product quality and service levels, it is imperative that the golf cart fleet also maintains the same high standard that golfers have come to expect from Red Hawk Ridge. Golf carts are leased for four years, a new leased fleet was delivered in the spring of 2019 and will need to be replaced in the spring of 2023. More accurate cost projections and replacement specifics will be established in 2022.

Expenditures	2022	2023	2024	2025	2026	Total
Equipment	\$ -	\$ 438,185	\$ -	\$ -	\$ -	\$ 438,185
Total Expenditures	\$ -	\$ 438,185	\$ -	\$ -	\$ -	\$ 438,185

Funding Sources	2022	2023	2024	2025	2026	Total
Charges for Service	\$ -	\$ 438,185	\$ -	\$ -	\$ -	\$ 438,185
Total Funding Sources	\$ -	\$ 438,185	\$ -	\$ -	\$ -	\$ 438,185

Operational Impact

No operational impact is expected outside of current budget.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Clubhouse Upgrades

Project Number: 70-20

Contact: Brian Erickson, Head Golf Professional

Department: Golf

Category: Equipment

Type: Replacement

Useful Life: 10+ years

5 Year Historical Total \$ 95,997

2022-2026 Total 46,491

CIP Project Total (2017-2026): \$ 142,488

Description and Justification

The golf pro shop has not been updated since its construction in 2001 and is dated and lacks some functionality. In order to capitalize on sales opportunities and to provide a better experience to the golfers the Clubhouse dining room furniture is scheduled to be replaced in 2024, as well as an addition to the chargrill/Kitchen in the Clubhouse.

Expenditures	2022	2023	2024	2025	2026	Total
Clubhouse dining room Furniture/kitchen	\$ -	\$ -	\$ 46,491	\$ -	\$ -	\$ 46,491
Total Expenditures	\$ -	\$ -	\$ 46,491	\$ -	\$ -	\$ 46,491

Funding Sources	2022	2023	2024	2025	2026	Total
Charges for Service	\$ -	\$ -	\$ 46,491	\$ -	\$ -	\$ 46,491
Total Funding Sources	\$ -	\$ -	\$ 46,491	\$ -	\$ -	\$ 46,491

Operational Impact

No additional revenues or expenditures are anticipated as a result of this project.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

New Practice Putting Green

Project Number: 70-20

Contact: Brian Erickson, Head Golf Professional

Department: Golf

Category: Infrastructure

Type: New

Useful Life: 10 Years

5 Year Historical Total \$ -

2022-2026 Total 70,000

CIP Project Total (2017-2026): \$ 70,000

Description and Justification

The new practice putting green will be constructed in 2023. This new addition will be about 7,000 square feet. The current practice putting green at Red Hawk Golf Course has 4 holes total. With the new practice putting green addition, there will be a total of 14 holes. This will allow for more flexibility during tournaments and junior camps while still serving golfers.

Red Hawk has received feedback that there is a need for additional practice putting space. Adding this new putting green will enhance the golfing experience for future guests.

Expenditures	2022	2023	2024	2025	2026	Total
Putting Green	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ 70,000
Total Expenditures	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ 70,000

Funding Sources	2022	2023	2024	2025	2026	Total
Charges for Service	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ 70,000
Total Funding Sources	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ 70,000

Operational Impact

No additional revenues are anticipated as a result of this project.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

COMMUNITY CENTER FUND

PARKS & RECREATION DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Fitness Equipment Replacement	\$ 350,000	\$ -	\$ -	\$ 80,000	\$ 350,000	\$ 780,000
Recreation Center HVAC	-	150,000	310,000	-	-	460,000
Miller Activity Complex Boiler	-	-	-	115,000	-	115,000
Total Expenditures by Year	\$ 350,000	\$ 150,000	\$ 310,000	\$ 195,000	\$ 350,000	\$ 1,355,000

Project Funding Sources	2022	2023	2024	2025	2026	Total
Sales Tax	\$ 350,000	\$ 150,000	\$ 310,000	\$ 195,000	\$ 350,000	\$ 1,355,000
Total Funding Sources by Year	\$ 350,000	\$ 150,000	\$ 310,000	\$ 195,000	\$ 350,000	\$ 1,355,000

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Equipment at Recreation Center

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name **Fitness Equipment Replacement**

Project Number:	70-30		5 Year Historical Total	\$	-
Contact:	Mike Kilman, Recreation Manager		2022-2026 Total		780,000
Department:	Parks & Recreation Department		CIP Project Total (2017-2026):		
Category:	Equipment			\$	780,000
Type:	Replacement				
Useful Life:	3 years				

Description and Justification

The exercise machines were last purchased in 2013 and are scheduled to be replaced in 2022 along with Cardio and spin equipment, which is when they reach their end of functional lifespan resulting in increased down time for repair and maintenance. In order to provide a safe and functional workout experience, the Parks and Recreation department has begun an eight year purchasing cycle to avoid increased costs for labor to maintain aging equipment and prevent increased time equipment is out of order. This has allowed the Town to increase its purchasing power by trading in aging equipment before it has completely depreciated. Free weights are scheduled to be replaced in 2025 as they are reaching their end of functional lifespan as well.

In 2022, the cardio equipment will be three years old and industry standards recommend replacement every three years. Equipment replacement is necessary in order to maintain safety, functionality, and expected levels of services for Recreation Center users.

Expenditures	2022	2023	2024	2025	2026	Total
Cardio and Spin Equipment Replacement	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000	\$ 700,000
Free Weight/Circuit	-	-	-	80,000	-	80,000
Total Expenditures	\$ 350,000	\$ -	\$ -	\$ 80,000	\$ 350,000	\$ 780,000

Funding Sources	2022	2023	2024	2025	2026	Total
Sales Tax	\$ 350,000	\$ -	\$ -	\$ 80,000	\$ 350,000	\$ 780,000
Total Funding Sources	\$ 350,000	\$ -	\$ -	\$ 80,000	\$ 350,000	\$ 780,000

Operational Impact

No future expenditures are anticipated as a result of this project. By keeping the amenities in good working condition and updating when necessary, these general improvements contribute to the overall facility and may attract additional patronage.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Recreation Center HVAC

Project Number: 70-30
 Contact: Mike Kilman, Recreation Manager
 Department: Parks & Recreation Department
 Category: Equipment
 Type: Replacement
 Useful Life: 20 years

5 Year Historical Total \$ -
 2022-2026 Total 460,000
CIP Project Total (2017-2026): \$ 460,000

Description and Justification

The roof top unit (RTU) HVAC units on the Recreation Center will be nearing the end of their functional lives by 2024, which can result in increased downtime and emergency maintenance. In order to maintain quality for facility users, the Recreation Center's weight room and Panorama Hall HVAC are scheduled to be replaced in 2024. Additionally, the Dehumidification unit (DHU) and Make Up Air Unit (MUA) will also need replacing in 2023 to maintain air quality for facility users.

Expenditures	2022	2023	2024	2025	2026	Total
Recreation Lap Pool DHU	\$ -	\$ 100,000	\$ 150,000	\$ -	\$ -	\$ 250,000
Recreation MUA unit	-	50,000	-	-	-	50,000
Recreation Center RTU HVAC units	-	-	160,000	-	-	160,000
Total Expenditures	\$ -	\$ 150,000	\$ 310,000	\$ -	\$ -	\$ 460,000

Funding Sources	2022	2023	2024	2025	2026	Total
Sales Tax	\$ -	\$ 150,000	\$ 310,000	\$ -	\$ -	\$ 460,000
Total Funding Sources	\$ -	\$ 150,000	\$ 310,000	\$ -	\$ -	\$ 460,000

Operational Impact

Replacing this unit with a newer, more energy efficient unit is expected to reduce costs for both maintenance and operations. Any savings will be determined after the new unit is in service and will be reflected in future year budgets.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Miller Activity Complex Boiler

Project Number: 70-30

Contact: Mike Kilman, Recreation Manager

Department: Parks & Recreation Department

Category: Equipment

Type: Replacement

Useful Life: 20 years

5 Year Historical Total \$ -

2022-2026 Total 115,000

CIP Project Total (2017-2026): \$ 115,000

Description and Justification

All pool facilities, except the leisure pool at the Miller Activity Complex (MAC) within the Town of Castle Rock have a backup boiler to maintain a high level of customer service, as well as extend the life of the main boiler. The leisure pool at the Miller Activity Complex (MAC) only has one boiler. If the boiler at the MAC was to fail and be offline it could force the pool to be close and result in possible revenue losses. The new backup boiler would allow the pool to continue to operate while maintenance and repairs are being done on the main boiler.

Expenditures	2022	2023	2024	2025	2026	Total
MAC Backup Boiler	\$ -	\$ -	\$ -	\$ 115,000	\$ -	\$ 115,000

Total Expenditures \$ - \$ - \$ - \$ 115,000 \$ - \$ 115,000

Funding Sources	2022	2023	2024	2025	2026	Total
Sales Tax	\$ -	\$ -	\$ -	\$ 115,000	\$ -	\$ 115,000

Total Funding Sources \$ - \$ - \$ - \$ 115,000 \$ - \$ 115,000

Operational Impact

Replacing this unit with a newer, more energy efficient unit is expected to reduce costs for both maintenance and operations. Any savings will be determined after the new unit is in service and will be reflected in future budget requests.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

PARKS AND RECREATION LODGING TAX FUND

PARKS & RECREATION DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2022	2023	2024	2025	2026	Total
Park Upgrades	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
LED Light Upgrades at Town Parks	111,100	78,100	40,700	-	25,000	254,900
Total Expenditures by Year	\$ 161,100	\$ 78,100	\$ 40,700	\$ -	\$ 25,000	\$ 304,900

Project Funding Sources	2022	2023	2024	2025	2026	Total
Lodging Tax	\$ 161,100	\$ 78,100	\$ 40,700	\$ -	\$ 25,000	\$ 304,900
Total Funding Sources by Year	\$ 161,100	\$ 78,100	\$ 40,700	\$ -	\$ 25,000	\$ 304,900

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Festival Park

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

Park Upgrades

Project Number: 70-10	5 Year Historical Total	\$ -
Contact: Jeff Smullen, Assistant Director of Parks & Recreation	2022-2026 Total	\$ 50,000
Department: Parks & Recreation Department	CIP Project Total (2017-2026):	\$ 50,000
Category: Parks/Trails		
Type: Upgrade		
Useful Life: 20 Years		

Description and Justification

Parks and Recreation requests funding for upgrades at Festival Park on the innovative water filtration system while increasing square footage/seating to have a better end user experience. This would be incorporated by installing a grate system. The grates would be heel high safe while allowing water to filter down into the system and ultimately into Sellars Gulch as originally designed.

Expenditures	2022	2023	2024	2025	2026	Total
Site Improvements	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Total Expenditures	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	2022	2023	2024	2025	2026	Total
Lodging Tax	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Total Funding Sources	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Operational Impact

The operational impact of this project will not be known until project completion.

2022-2026 CAPITAL IMPROVEMENT PROGRAM

Project Name

LED Light Upgrades at Town Parks

Project Number: 70-30		5 Year Historical Total	\$	-
Contact: Jeff Smullen, Assistant Director of Parks & Recreation		2022-2026 Total		254,900
Department: Parks & Recreation Department		CIP Project Total (2017-2026):	\$	254,900
Category: Parks/Trails				
Type: Upgrade				
Useful Life: 15 Years				

Description and Justification

The Parks and Recreation Department’s Environmental and Sustainability Policy and Program has identified waste and energy reduction by improving the efficiency of existing lighting by retrofitting outdoor and indoor lighting with energy-efficient LED bulbs and require all new lighting to be energy efficient. Utilize LED lights in all fixtures in new park construction. Retrofit or replace incandescent bulbs and/or CFL lights with LED lights during renovation projects for older parks. With this policy, LED lighting upgrades will be phased in at Town parks over the next 5-years. An LED light bulb typically uses up to 90% less energy than regular incandescent or halogen light bulbs and lasts far longer. Switching entirely to LED lights will save on energy costs, reduce electricity consumption, and reduce carbon emissions.

Expenditures	2022	2023	2024	2025	2026	Total
LED Light Upgrades	\$ 111,100	\$ 78,100	\$ 40,700	\$ -	\$ 25,000	\$ 254,900
Total Expenditures	\$ 111,100	\$ 78,100	\$ 40,700	\$ -	\$ 25,000	\$ 254,900

Funding Sources	2022	2023	2024	2025	2026	Total
Lodging Tax	\$ 111,100	\$ 78,100	\$ 40,700	\$ -	\$ 25,000	\$ 254,900
Total Funding Sources	\$ 111,100	\$ 78,100	\$ 40,700	\$ -	\$ 25,000	\$ 254,900

Operational Impact

Replacing with existing lights with LED bulbs will result in electric utility savings. The full savings from this project will vary by location and is unknown at this time.