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LETTER OF INTRODUCTION FOR THE FIVE YEAR CAPITAL IMPROVEMENT PROGRAM

September 15, 2020

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 2021 through 2025. The 2021 Budget allows for \$57,963,220 associated with the Capital Improvement Program. The Funding Source information in the following pages 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.

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:

- 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, building use taxes and 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,

A handwritten signature in black ink, appearing to read "David L. Corliss".

David L. Corliss
Town Manager

THIS PAGE IS A PLACE HOLDER FOR THE RESOLUTION
APPROVING THE 2021-2025 CIP

2021 - 2025 CAPITAL IMPROVEMENT PROGRAM SUMMARY - ALL FUNDS
TOTAL CIP EXPENDITURES BY FUND AND YEAR

Fund	2021	2022	2023	2024	2025	Total
General Fund	\$ 638,150	\$ 4,868,000	\$ -	\$ 738,750	\$ 775,700	\$ 7,020,600
General Long Term Planning	474,600	1,445,736	934,500	2,723,291	835,000	6,413,127
Transportation Fund	1,312,000	1,174,000	1,353,000	919,400	974,100	5,732,500
Transportation Capital Fund*	4,600,000	24,235,000	7,527,000	11,545,000	8,800,000	56,707,000
Conservation Trust Fund	3,800,000	925,000	1,000,000	-	-	5,725,000
Parks and Rec Capital Fund	-	450,000	4,500,000	500,000	2,000,000	7,450,000
Police Capital	-	300,000	-	-	-	300,000
Water Fund	12,299,344	3,550,000	8,494,000	5,955,000	6,468,000	36,766,344
Water Resource Fund	12,898,095	17,697,472	10,981,260	10,484,048	6,130,836	58,191,711
Stormwater Fund	8,264,644	1,668,725	1,023,849	2,291,243	2,017,149	15,265,610
Wastewater Fund**	9,334,979	4,442,015	5,684,465	3,527,106	4,634,943	27,623,508
Fleet Fund	3,023,807	3,297,819	3,093,156	2,350,029	2,754,288	14,519,099
Golf Fund	-	515,695	550,681	46,491	-	1,112,867
Community Center Fund	400,000	350,000	150,000	310,000	195,000	1,405,000
Total by Year	\$ 57,045,619	\$ 64,919,462	\$ 45,291,911	\$ 41,390,358	\$ 35,585,016	\$ 244,232,366

* Transportation Capital Fund CIP differs from budgeted amounts due to the planned accumulation of reserves

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	2021	2022	2023	2024	2025	Total
Sales Tax	\$ 1,038,150	\$ 1,910,000	\$ 150,000	\$ 1,048,750	\$ 970,700	\$ 5,117,600
Residential Building Use Tax	1,384,600	7,191,600	1,014,500	1,007,800	915,000	11,513,500
Road and Bridge Tax	902,000	744,000	1,273,000	839,400	894,100	4,652,500
Colorado Lottery Funds	440,000	440,000	440,000	-	-	1,320,000
Impact Fees	4,100,000	14,384,000	12,027,000	12,045,000	10,800,000	53,356,000
Metered Water Sales	6,568,000	3,550,000	5,170,000	3,455,000	4,980,000	23,723,000
System Development Fees	20,229,407	7,106,344	7,268,584	6,959,136	5,701,712	47,265,182
Water Resources Fees	8,077,572	11,857,306	7,357,444	7,024,312	4,107,660	38,424,295
Stormwater Charges	3,840,083	1,089,562	776,546	1,414,949	1,286,556	8,407,696
Wastewater Service Charges	4,082,000	3,755,000	5,611,000	3,404,000	3,175,000	20,027,000
Vehicle Repl. Contributions	2,562,328	3,010,249	2,832,352	2,157,926	2,536,169	13,099,024
Vehicle Salvage	254,277	287,570	260,804	192,103	218,119	1,212,873
Transfers from Other Funds	207,202	-	-	-	-	207,202
Transfers In (Sales Tax)	-	684,136	-	1,795,491	-	2,479,627
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	3,360,000	485,000	560,000	-	-	4,405,000
Charges for Service	-	515,695	550,681	46,491	-	1,112,867
GOCO Grant	-	2,000,000	-	-	-	2,000,000
Total by Year	\$ 57,045,619	\$ 64,919,462	\$ 45,291,911	\$ 41,390,358	\$ 35,585,016	\$ 244,232,366

2021-2025 CAPITAL IMPROVEMENT PROGRAM

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

Department / Division	Project Name	2021	2022	2023	2024	2025
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
	Administration & Customer Service Building	12,119	12,119	12,119	12,119	12,119
Water Resources Fund						
	WISE Project	4,600,000	4,600,000	4,600,000	4,600,000	4,600,000
	Chatfield Reallocation Project	120,000	120,000	120,000	120,000	120,000
	Administration & Customer Service Building	5,689	5,689	5,689	5,689	5,689
	PCWPF Expansion	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000
	Castle Rock Reservoir	-	-	-	200,000	200,000
Stormwater Fund						
	Administration & Customer Service Building	5,510	5,510	5,510	5,510	5,510
Wastewater Fund						
	Administration & Customer Service Building	6,682	6,682	6,682	6,682	6,682
Total Ongoing Operating Expenditures by Year		\$ 5,852,600	\$ 5,852,600	\$ 5,852,600	\$ 6,082,674	\$ 6,082,674

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

GENERAL FUND

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Annual Trail Improvements	\$ 638,150	\$ 4,868,000	\$ -	\$ 738,750	\$ 775,700	\$ 7,020,600
Total Expenditures by Year	\$ 638,150	\$ 4,868,000	\$ -	\$ 738,750	\$ 775,700	\$ 7,020,600

Project Funding Sources	2021	2022	2023	2024	2025	Total
Sales Tax	\$ 638,150	\$ 1,560,000	\$ -	\$ 738,750	\$ 775,700	\$ 3,712,600
Developer Contributions	-	1,308,000	-	-	-	1,308,000
GOCO Grant	-	2,000,000	-	-	-	2,000,000
Total Funding Sources by Year	\$ 638,150	\$ 4,868,000	\$ -	\$ 738,750	\$ 775,700	\$ 7,020,600

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Annual Trail Improvements

Project Number: 75-14			
Contact: Jeff Smullen, Assistant Director of Parks & Recreation		5 Year Historical Total	\$ 3,207,408
Department: Parks & Recreation Department		2021-2025 Total	<u>7,020,600</u>
Category: Parks/Trails		CIP Project Total (2016-2025):	\$ 10,228,008
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.

Improvements in 2021 will include the continued extension of the Gateway Mesa Trail, a sidewalk connection at Covy Court in the Woodlands, Trail connection to East Plum Creek Trail from the Service Center, concrete trail replacement at BNSF railroad underpass at East Plum Creek Trail, Sellars Gulch Trail Extension to Plum Creek Parkway and trail extension to the Aerial Trekking Tower at Philip S. Miller Park. In 2021 funds will be committed to trail development at Metzler Open Space and an additional mountain bike only loop at Ridgeline Open Space in partnership with COMBA (Colorado Mountain Bike Association). In addition, 2021 remaining funds will be saved and combined with 2022 and 2023 funds along with developer contributions to begin construction of the completion of the Front Range Trail through Castle Rock with grant support through a Connect Initiative Grant through Great Outdoors Colorado (GOCO) being received in 2023 at the completion of the project. In 2023 and 2024 planning includes unpaved trail development in Cobblestone Ranch / McCanta Regional Park from Terrain and Cobblestone Ranch neighborhoods.

Funding Note: GOCO funds will be received after the project is complete. The Front Range Trail extension is planned to be constructed over 2020, 2021, 2022, and 2023, with the awarded GOCO grant funds received upon project completion, scheduled in 2023. Project costs will be funded up front with developer contributions and sales tax. The sales tax portion will then be reimbursed with the GOCO grant funds.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Contracts	\$ 638,150	\$ -	\$ -	\$ 738,750	\$ 775,700	\$ 2,152,600
Construction of Front Range Trail	-	4,868,000	-	-	-	4,868,000
Total Expenditures	\$ 638,150	\$ 4,868,000	\$ -	\$ 738,750	\$ 775,700	\$ 7,020,600

Funding Sources	2021	2022	2023	2024	2025	Total
Sales Tax	\$ 638,150	\$ 1,560,000	\$ -	\$ 738,750	\$ 775,700	\$ 3,712,600
Developer Contributions	-	1,308,000	-	-	-	1,308,000
GOCO Grant	-	2,000,000	-	-	-	2,000,000
Total Funding Sources	\$ 638,150	\$ 4,868,000	\$ -	\$ 738,750	\$ 775,700	\$ 7,020,600

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

GENERAL LONG TERM PLANNING FUND

TOWN MANAGER

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Synthetic Turf Replacement	\$ 216,000	\$ 295,000	\$ 295,000	\$ 491,000	\$ 485,000	\$ 1,782,000
Network Devices	158,600	292,600	532,000	286,800	250,000	1,520,000
Server Replacement	100,000	174,000	107,500	150,000	100,000	631,500
EMS Equipment	-	684,136	-	295,491	-	979,627
Fire Department Radio Replacement	-	-	-	1,500,000	-	1,500,000
Total Expenditures by Year	\$ 474,600	\$ 1,445,736	\$ 934,500	\$ 2,723,291	\$ 835,000	\$ 6,413,127

Project Funding Sources	2021	2022	2023	2024	2025	Total
Residential Building Use Tax	\$ 474,600	\$ 761,600	\$ 934,500	\$ 927,800	\$ 835,000	\$ 3,933,500
Transfers In (Sales Tax)	-	684,136	-	1,795,491	-	2,479,627
Total Funding Sources by Year	\$ 474,600	\$ 1,445,736	\$ 934,500	\$ 2,723,291	\$ 835,000	\$ 6,413,127

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Synthetic Turf Replacement

Project Number:	78-47		
Contact:	Jeff Smullen, Assistant Director of Parks & Recreation	5 Year Historical Total	\$ 380,250
Department:	Parks & Recreation Department	2021-2025 Total	1,782,000
Category:	Parks/Trails	CIP Project Total (2016-2025):	\$ 2,162,250
Useful Life:	10 Years		

Description and Justification

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

- 2021 for Butterfield Park
- 2022 for Gemstone Park
- 2023 for Matney Park
- 2024 for Rhyolite Regional Park
- 2025 for Bison Park

Town staff is working with the Douglas County School District on possible funding assistance for Bison Park turf replacement in 2025 since it is also a school site.

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	2021	2022	2023	2024	2025	Total
Site Improvements	\$ 216,000	\$ 295,000	\$ 295,000	\$ 491,000	\$ 485,000	\$ 1,782,000
Total Expenditures	\$ 216,000	\$ 295,000	\$ 295,000	\$ 491,000	\$ 485,000	\$ 1,782,000

Funding Sources	2021	2022	2023	2024	2025	Total
Residential Building Use Tax	\$ 216,000	\$ 295,000	\$ 295,000	\$ 491,000	\$ 485,000	\$ 1,782,000
Total Funding Sources	\$ 216,000	\$ 295,000	\$ 295,000	\$ 491,000	\$ 485,000	\$ 1,782,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Network Devices

Project Number: 76-80		
Contact: Jennifer Jaeger, Chief Technology Officer	5 Year Historical Total	\$ 422,568
Department: Division of Innovation and Technology	2021-2025 Total	1,520,000
Category: Technology	CIP Project Total (2016-2025):	\$ 1,942,568
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 Golf Course). Maintaining these devices is very important for the 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 costs are expected to grow at an average annual rate of 27 percent and are budgeted below accordingly.

Expenditures	2021	2022	2023	2024	2025	Total
Network Devices	\$ 158,600	\$ 292,600	\$ 532,000	\$ 286,800	\$ 250,000	\$ 1,520,000
Total Expenditures	\$ 158,600	\$ 292,600	\$ 532,000	\$ 286,800	\$ 250,000	\$ 1,520,000

Funding Sources	2021	2022	2023	2024	2025	Total
Residential Building Use Tax	\$ 158,600	\$ 292,600	\$ 532,000	\$ 286,800	\$ 250,000	\$ 1,520,000
Total Funding Sources	\$ 158,600	\$ 292,600	\$ 532,000	\$ 286,800	\$ 250,000	\$ 1,520,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Server Replacement

Project Number:	76-83		
Contact:	Jennifer Jaeger, Chief Technology Officer	5 Year Historical Total	\$ 394,124
Department:	Division of Innovation and Technology	2021-2025 Total	631,500
Category:	Technology	CIP Project Total (2016-2025):	\$ 1,025,624
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	2021	2022	2023	2024	2025	Total
Server Replacement	\$ 100,000	\$ 174,000	\$ 107,500	\$ 150,000	\$ 100,000	\$ 631,500
Total Expenditures	\$ 100,000	\$ 174,000	\$ 107,500	\$ 150,000	\$ 100,000	\$ 631,500

Funding Sources	2021	2022	2023	2024	2025	Total
Residential Building Use Tax	\$ 100,000	\$ 174,000	\$ 107,500	\$ 150,000	\$ 100,000	\$ 631,500
Total Funding Sources	\$ 100,000	\$ 174,000	\$ 107,500	\$ 150,000	\$ 100,000	\$ 631,500

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

EMS Equipment

Project Number: 70-30			
Contact: Norris Croom, Fire Chief		5 Year Historical Total	\$ 1,836,177
Department: Fire Department		2021-2025 Total	979,627
Category: Equipment		CIP Project Total (2016-2025):	\$ 2,815,804
Useful Life: Varies			

Description and Justification

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

This aligns with Council established Strategic Priorities by ensuring outstanding public safety, it allows maintenance of our current level of service, and addresses the Community Survey need of ensuring public safety.

Annual transfers in from the General Fund are scheduled to accommodate these scheduled replacements.

Expenditures	2021	2022	2023	2024	2025	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	2021	2022	2023	2024	2025	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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Fire Department Radio Replacement

Project Number: 70-30			
Contact: Norris Croom, Fire Chief		5 Year Historical Total	\$ 1,836,177
Department: Fire Department		2021-2025 Total	1,500,000
Category: Equipment		CIP Project Total (2016-2025):	\$ 3,336,177
Useful Life: 10 Years			

Description and Justification

This project is planned to accommodate replacement of mobile and portable radios. 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, capabilities, etc. are maintained as opposed to having variations of each. These are a key component in being able to provide service and 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 to the community.

These radios (approx. 200 total) are scheduled for replacement in 2024 at an estimated cost of \$1,500,000.

Annual transfers in from the General Fund are scheduled to accommodate these scheduled replacements.

Expenditures	2021	2022	2023	2024	2025	Total
Radio Replacement	\$ -	\$ -	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000
Total Expenditures	\$ -	\$ -	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000

Funding Sources	2021	2022	2023	2024	2025	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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

TRANSPORTATION FUND

PUBLIC WORKS DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Miscellaneous Projects & Studies	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000
Traffic Safety Improvements	300,000	100,000	100,000	100,000	100,000	700,000
Traffic Signal Program	452,000	494,000	1,023,000	589,400	644,100	3,202,500
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
Downtown Alley Improvements	330,000	350,000	-	-	-	680,000
Total Expenditures by Year	\$ 1,312,000	\$ 1,174,000	\$ 1,353,000	\$ 919,400	\$ 974,100	\$ 5,732,500

Project Funding Sources	2021	2022	2023	2024	2025	Total
Road And Bridge Tax	\$ 902,000	\$ 744,000	\$ 1,273,000	\$ 839,400	\$ 894,100	\$ 4,652,500
Residential Building Use Tax	410,000	430,000	80,000	80,000	80,000	1,080,000
Total Funding Sources by Year	\$ 1,312,000	\$ 1,174,000	\$ 1,353,000	\$ 919,400	\$ 974,100	\$ 5,732,500

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.



Completed traffic calming improvements

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Miscellaneous Projects & Studies

Project Number:	75-24		
Contact:	Brian Kelley, Engineering Manager	5 Year Historical Total	\$ 233,765
Department:	Public Works Department	2021-2025 Total	375,000
Category:	Infrastructure	CIP Project Total (2016-2025):	\$ 608,765
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 monies 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 helps to address increases in traffic and congestion, which has been identified as an area of concern in the Community Survey.

Expenditures	2021	2022	2023	2024	2025	Total
Design/Engineering/Construction	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000
Total Expenditures	\$ 75,000	\$ 375,000				

Funding Sources	2021	2022	2023	2024	2025	Total
Road and Bridge Tax	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000
Total Funding Sources	\$ 75,000	\$ 375,000				

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Traffic Safety Improvements

Project Number:	75-25				
Contact:	Ryan Germeroth, Assistant Public Works Director	5 Year Historical Total	\$	278,960	
Department:	Public Works Department	2021-2025 Total		700,000	
Category:	Infrastructure	CIP Project Total (2016-2025):	\$	978,960	
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, with \$200,000 included in 2021 for additional RRFB's. This would allow for the installation of about 5 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. This program is intended to pay for these items. 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	2021	2022	2023	2024	2025	Total
Construction	\$ 300,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 700,000
Total Expenditures	\$ 300,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 700,000

Funding Sources	2021	2022	2023	2024	2025	Total
Road and Bridge Tax	\$ 300,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 700,000
Total Funding Sources	\$ 300,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 700,000

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Traffic Signal Program

Project Number: 75-26		
Contact: Ryan Germeroth, Assistant Public Works Director	5 Year Historical Total	\$ 4,105,211
Department: Public Works Department	2021-2025 Total	3,202,500
Category: Infrastructure	CIP Project Total (2016-2025):	\$ 7,307,711
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 2021, it is expected that one new traffic signal will be needed. The location will be identified through an engineering evaluation in 2020. The projected cost for construction per intersection in 2021 is \$400,000. 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 the addition of illuminated street name signs, other infrastructure, steel signal poles, and an overall increase in construction costs and labor rates. For years 2022 through 2025, signal projects will be selected based on historical trends, professional judgment, and locations identified by engineering evaluations. A 10 percent increase in cost from one year to the next has been applied to the projected construction in 2022 through 2025. This increase is based on growth in signal construction in the past five years.

The remaining \$52,000 of the request for 2021, with 3 percent growth per year for 6 years would continue installation of advanced vehicle detection at four intersections per year as a continuing signal system upgrade project. In 2018, staff performed a proof of concept project on automated traffic signal performance measures (ATSPMs) on the Plum Creek Parkway corridor. The concept showed the use of ATSPMs in Castle Rock would be beneficial in identifying deficiencies in signal timing and operations. Utilizing 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 2019 Community Survey.

Expenditures	2021	2022	2023	2024	2025	Total
Construction/Engineering	\$ 452,000	\$ 494,000	\$ 1,023,000	\$ 589,400	\$ 644,100	\$ 3,202,500
Total Expenditures	\$ 452,000	\$ 494,000	\$ 1,023,000	\$ 589,400	\$ 644,100	\$ 3,202,500

Funding Sources	2021	2022	2023	2024	2025	Total
Road and Bridge Tax	\$ 452,000	\$ 494,000	\$ 1,023,000	\$ 589,400	\$ 644,100	\$ 3,202,500
Total Funding Sources	\$ 452,000	\$ 494,000	\$ 1,023,000	\$ 589,400	\$ 644,100	\$ 3,202,500

Operational Impact

The department currently contracts out some of the maintenance of traffic signal equipment but only on an as needed basis to supplement the in-house capabilities. In addition, electricity cost increases also exist 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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Neighborhood Traffic Calming

Project Number: 75-28			
Contact: Ryan Germeroth, Assistant Public Works Director		5 Year Historical Total	\$ 107,200
Department: Public Works Department		2021-2025 Total	125,000
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 232,200
Useful Life: Variable			

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	2021	2022	2023	2024	2025	Total
Construction/Engineering	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Total Expenditures	\$ 25,000	\$ 125,000				

Funding Sources	2021	2022	2023	2024	2025	Total
Road and Bridge Tax	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Total Funding Sources	\$ 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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Development Related Projects

Project Number: 75-32			
Contact: Brian Kelley, Engineering Manager		5 Year Historical Total	\$ 194,809
Department: Public Works Department		2021-2025 Total	250,000
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 444,809
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. The Town has recognized that opportunities exist for transportation improvements to be made in conjunction with other development activity in Town. 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	2021	2022	2023	2024	2025	Total
Engineering/Construction	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Total Expenditures	\$ 50,000	\$ 250,000				

Funding Sources	2021	2022	2023	2024	2025	Total
Road and Bridge Tax	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Total Funding Sources	\$ 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.

2021-2025 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	2021-2025 Total	400,000
Category:	Infrastructure	CIP Project Total (2016-2025):	\$ 480,000
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	2021	2022	2023	2024	2025	Total
Construction	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 400,000
Total Expenditures	\$ 80,000	\$ 400,000				

Funding Sources	2021	2022	2023	2024	2025	Total
Residential Building Use Tax	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 400,000
Total Funding Sources	\$ 80,000	\$ 400,000				

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Downtown Alley Improvements

Project Number: 78-46			
Contact: Brian Kelley, Engineering Manager		5 Year Historical Total	\$ 437,499
Department: Public Works Department		2021-2025 Total	680,000
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 1,117,499
Useful Life: 30 years			

Description and Justification

The scope of the project includes reconstruction of alley pavement infrastructure and upgrades including the addition of gutter and storm drain infrastructure improvements at six locations in the downtown area. These modifications are expected to improve drainage, safety, and access to the alleys. This infrastructure is beyond its design life, and needs to be replaced and improved. Increased maintenance is required to keep current service active, which is creating cost inefficiencies. This project is intended to address the community priority of a safe and reliable transportation system. The six alleys requiring improvement are scheduled to be constructed over the course of three years, 2020-2022. This program fulfills current needs for alleyway work.

Expenditures	2021	2022	2023	2024	2025	Total
Construction	\$ 330,000	\$ 350,000	\$ -	\$ -	\$ -	\$ 680,000
Total Expenditures	\$ 330,000	\$ 350,000	\$ -	\$ -	\$ -	\$ 680,000

Funding Sources	2021	2022	2023	2024	2025	Total
Residential Building Use Tax	\$ 330,000	\$ 350,000	\$ -	\$ -	\$ -	\$ 680,000
Total Funding Sources	\$ 330,000	\$ 350,000	\$ -	\$ -	\$ -	\$ 680,000

Operational Impact

Increased operational impacts are not anticipated as this project is a replacement. A decrease in maintenance is expected as a result of the replacement infrastructure being reset to its original condition where normal preventative maintenance activities can resume.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

TRANSPORTATION CAPITAL FUND

PUBLIC WORKS DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Plum Creek Pkwy Widening & Roundabout	\$ 500,000	\$ 6,000,000	\$ -	\$ -	\$ -	\$ 6,500,000
Crystal Valley Parkway Interchange	2,600,000	12,800,000	-	-	-	15,400,000
5th Street Widening	1,500,000	435,000	2,000,000	-	2,900,000	6,835,000
Hwy 86 & 5th St. Improvements	-	5,000,000	-	-	-	5,000,000
Ridge Road Widening	-	-	120,000	4,900,000	-	5,020,000
Wolfensberger Widening & Roundabout	-	-	2,400,000	1,100,000	4,900,000	8,400,000
Crowfoot Roundabout	-	-	2,222,000	-	-	2,222,000
Crowfoot Valley Road Widening	-	-	785,000	5,000,000	-	5,785,000
Prairie Hawk Widening	-	-	-	545,000	-	545,000
Plum Creek Widening	-	-	-	-	400,000	400,000
I-25 Plum Creek Parkway Off Ramp	-	-	-	-	600,000	600,000
Total Expenditures by Year	\$4,600,000	\$24,235,000	\$7,527,000	\$11,545,000	\$ 8,800,000	\$ 56,707,000

Project Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$4,100,000	\$13,634,000	\$7,527,000	\$11,545,000	\$ 8,800,000	\$ 45,606,000
Residential Building Use Tax	500,000	6,000,000	-	-	-	6,500,000
Federal Grant	-	3,601,000	-	-	-	3,601,000
County Contribution	-	1,000,000	-	-	-	1,000,000
Total Funding Sources by Year	\$4,600,000	\$24,235,000	\$7,527,000	\$11,545,000	\$ 8,800,000	\$ 56,707,000

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.



Capital improvements in progress

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Plum Creek Pkwy Widening & Roundabout

Project Number: 77-05

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Useful Life: 20 years

5 Year Historical Total \$ 7,118,159

2021-2025 Total 4,350,000

CIP Project Total (2016-2025): \$ 11,468,159

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 is phased into two areas, including the widening in 2020 from Gilbert Street to Eaton Street. 2022 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 2019 Community Survey.

Expenditures	2021	2022	2023	2024	2025	Total
Construction	\$ 500,000	\$ 6,000,000	\$ -	\$ -	\$ -	\$ 6,500,000
Total Expenditures	\$ 500,000	\$ 6,000,000	\$ -	\$ -	\$ -	\$ 6,500,000

Funding Sources	2021	2022	2023	2024	2025	Total
Residential Building Use Tax	\$ 500,000	\$ 6,000,000	\$ -	\$ -	\$ -	\$ 6,500,000
Total Funding Sources	\$ 500,000	\$ 6,000,000	\$ -	\$ -	\$ -	\$ 6,500,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name **Crystal Valley Parkway Interchange**

Project Number:	78-41		
Contact:	Brian Kelley, Engineering Manager	5 Year Historical Total	\$ 4,713,657
Department:	Public Works Department	2021-2025 Total	15,400,000
Category:	Infrastructure	CIP Project Total (2016-2025):	\$ 20,113,657
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	2021	2022	2023	2024	2025	Total
Construction/Design/Right of Way	\$ 2,600,000	\$12,800,000	\$ -	\$ -	\$ -	\$ 15,400,000
Total Expenditures	\$ 2,600,000	\$12,800,000	\$ -	\$ -	\$ -	\$ 15,400,000

Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ 2,600,000	\$12,800,000	\$ -	\$ -	\$ -	\$ 15,400,000
Total Funding Sources	\$ 2,600,000	\$12,800,000	\$ -	\$ -	\$ -	\$ 15,400,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

5th Street Widening

Project Number: 78-85

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Useful Life: 20 years

5 Year Historical Total \$ -

2021-2025 Total 6,835,000

CIP Project Total (2016-2025): \$ 6,835,000

Description and Justification

This project involves the widening of 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 also 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	2021	2022	2023	2024	2025	Total
Design	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
Right of Way Acquisition	-	435,000	-	-	-	435,000
Construction	-	-	2,000,000	-	2,900,000	4,900,000
Total Expenditures	\$ 1,500,000	\$ 435,000	\$ 2,000,000	\$ -	\$ 2,900,000	\$ 6,835,000

Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ 1,500,000	\$ 435,000	\$ 2,000,000	\$ -	\$ 2,900,000	\$ 6,835,000
Total Funding Sources	\$ 1,500,000	\$ 435,000	\$ 2,000,000	\$ -	\$ 2,900,000	\$ 6,835,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name **Hwy 86 & 5th St. Improvements**

Project Number:	78-69		
Contact:	Brian Kelley, Engineering Manager	5 Year Historical Total	\$ 1,539,999
Department:	Public Works Department	2021-2025 Total	5,000,000
Category:	Infrastructure	CIP Project Total (2016-2025):	\$ 6,539,999
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 assist with minimizing 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 with \$600,000 for design funding 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	2021	2022	2023	2024	2025	Total
Construction	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ 5,000,000
Total Expenditures	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ 5,000,000

Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ 399,000	\$ -	\$ -	\$ -	\$ 399,000
Federal Grant	-	3,601,000	-	-	-	3,601,000
County Contribution	-	1,000,000	-	-	-	1,000,000
Total Funding Sources	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ 5,000,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Ridge Road Widening

Project Number: 78-84			
Contact: Brian Kelley, Engineering Manager		5 Year Historical Total	\$ 1,282,999
Department: Public Works Department		2021-2025 Total	5,020,000
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 6,302,999
Useful Life: 20 years			

Description and Justification

This requested project involves the widening of 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 in 2023 and construction in 2024. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2019 Community Survey.

Expenditures	2021	2022	2023	2024	2025	Total
Right of Way Acquisition	\$ -	\$ -	\$ 120,000	\$ -	\$ -	\$ 120,000
Construction	-	-	-	4,900,000	-	4,900,000
Total Expenditures	\$ -	\$ -	\$ 120,000	\$ 4,900,000	\$ -	\$ 5,020,000

Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ -	\$ 120,000	\$ 4,900,000	\$ -	\$ 5,020,000
Total Funding Sources	\$ -	\$ -	\$ 120,000	\$ 4,900,000	\$ -	\$ 5,020,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Wolfensberger Widening & Roundabout

Project Number: 77-08

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Useful Life: 20 years

5 Year Historical Total \$ -

2021-2025 Total 8,400,000

CIP Project Total (2016-2025): \$ 8,400,000

Description and Justification

This project accommodates the design of 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	2021	2022	2023	2024	2025	Total
Design	\$ -	\$ -	\$ 2,400,000	\$ -	\$ -	\$ 2,400,000
Right of Way Acquisition	-	-	-	1,100,000	-	1,100,000
Construction	-	-	-	-	4,900,000	4,900,000
Total Expenditures	\$ -	\$ -	\$ 2,400,000	\$ 1,100,000	\$ 4,900,000	\$ 8,400,000

Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ -	\$ 2,400,000	\$ 1,100,000	\$ 4,900,000	\$ 8,400,000
Total Funding Sources	\$ -	\$ -	\$ 2,400,000	\$ 1,100,000	\$ 4,900,000	\$ 8,400,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Crowfoot Roundabout

Project Number: 78-99			
Contact: Brian Kelley, Engineering Manager		5 Year Historical Total	\$ 444,579
Department: Public Works Department		2021-2025 Total	<u>2,222,000</u>
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 2,666,579
Useful Life: 20 years			

Description and Justification

This project accommodates the construction of a roundabout at the intersection of North Crowfoot Valley Road and Sapphire Point Drive. This project will improve safety and mobility. 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. Design for this roundabout is planned to be completed in 2020.

Expenditures	2021	2022	2023	2024	2025	Total
Construction	\$ -	\$ -	\$ 2,222,000	\$ -	\$ -	\$ 2,222,000
Total Expenditures	\$ -	\$ -	\$ 2,222,000	\$ -	\$ -	\$ 2,222,000
Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ -	\$ 2,222,000	\$ -	\$ -	\$ 2,222,000
Total Funding Sources	\$ -	\$ -	\$ 2,222,000	\$ -	\$ -	\$ 2,222,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Crowfoot Valley Road Widening

Project Number:	78-83		5 Year Historical Total	\$	-
Contact:	Brian Kelley, Engineering Manager		2021-2025 Total	\$	5,785,000
Department:	Public Works Department		CIP Project Total (2016-2025):		
Category:	Infrastructure			\$	5,785,000
Useful Life:	20 years				

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 will also include 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 2024. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the Community Survey.

Expenditures	2021	2022	2023	2024	2025	Total
Design	\$ -	\$ -	\$ 785,000	\$ -	\$ -	\$ 785,000
Construction		-	-	5,000,000	-	5,000,000
Total Expenditures	\$ -	\$ -	\$ 785,000	\$ 5,000,000	\$ -	\$ 5,785,000

Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ -	\$ 785,000	\$ 5,000,000	\$ -	\$ 5,785,000
Total Funding Sources	\$ -	\$ -	\$ 785,000	\$ 5,000,000	\$ -	\$ 5,785,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Prairie Hawk Widening

Project Number: 76-29

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Useful Life: 20 years

5 Year Historical Total \$ -

2021-2025 Total 545,000

CIP Project Total (2016-2025): \$ 545,000

Description and Justification

The Town's Transportation Master Plan has identified the need to widen the existing two-lane roadway 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 the past two Community Surveys in 2017 and 2019. Funding for design is included in 2024 with construction currently planned beyond the five year planning period.

Expenditures	2021	2022	2023	2024	2025	Total
Design	\$ -	\$ -	\$ -	\$ 545,000	\$ -	\$ 545,000
Total Expenditures	\$ -	\$ -	\$ -	\$ 545,000	\$ -	\$ 545,000

Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ -	\$ -	\$ 545,000	\$ -	\$ 545,000
Total Funding Sources	\$ -	\$ -	\$ -	\$ 545,000	\$ -	\$ 545,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Plum Creek Widening

Project Number: 77-05

Contact: Brian Kelley, Engineering Manager

Department: Public Works Department

Category: Infrastructure

Useful Life: 20 years

5 Year Historical Total \$ 7,118,159

2021-2025 Total 400,000

CIP Project Total (2016-2025): \$ 7,518,159

Description and Justification

This project completes the widening of 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 2025 includes the completion of the roadway design. Construction is currently planned to occur outside the five year planning period.

Expenditures	2021	2022	2023	2024	2025	Total
Design	\$ -	\$ -	\$ -	\$ -	\$ 400,000	\$ 400,000
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ 400,000	\$ 400,000

Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ -	\$ -	\$ -	\$ 400,000	\$ 400,000
Total Funding Sources	\$ -	\$ -	\$ -	\$ -	\$ 400,000	\$ 400,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

I-25 Plum Creek Parkway Off Ramp

Project Number:	79-18		
Contact:	Brian Kelley, Engineering Manager	5 Year Historical Total	\$ -
Department:	Public Works Department	2021-2025 Total	600,000
Category:	Infrastructure	CIP Project Total (2016-2025):	\$ 600,000
Useful Life:	20 years		

Description and Justification

This project is intended to complete the 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. The work programmed for 2025 includes the completion of the design. Construction is currently planned to occur outside the five year planning period.

Expenditures	2021	2022	2023	2024	2025	Total
Design	\$ -	\$ -	\$ -	\$ -	\$ 600,000	\$ 600,000
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ 600,000	\$ 600,000

Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ -	\$ -	\$ -	\$ 600,000	\$ 600,000
Total Funding Sources	\$ -	\$ -	\$ -	\$ -	\$ 600,000	\$ 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 design details are finalized or after project completion.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

CONSERVATION TRUST FUND

PARKS & RECREATION DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Park Improvements	\$ 3,800,000	\$ 925,000	\$ 1,000,000	\$ -	\$ -	\$ 5,725,000
Total Expenditures by Year	\$ 3,800,000	\$ 925,000	\$ 1,000,000	\$ -	\$ -	\$ 5,725,000

Project Funding Sources	2021	2022	2023	2024	2025	Total
Douglas County Shareback	\$ 3,360,000	\$ 485,000	\$ 560,000	\$ -	\$ -	\$ 4,405,000
Lottery Funds	440,000	440,000	440,000	-	-	1,320,000
Total Funding Sources by Year	\$ 3,800,000	\$ 925,000	\$ 1,000,000	\$ -	\$ -	\$ 5,725,000

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.



Bison Park

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Park Improvements

Project Number: 75-18		
Contact: Jeff Smullen, Assistant Director of Parks & Recreation	5 Year Historical Total	\$ 1,400,488
Department: Parks & Recreation Department	2021-2025 Total	5,725,000
Category: Parks/Trails	CIP Project Total (2016-2025):	\$ 7,125,488
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 include 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 and receive annual funds from the Colorado Lottery Distribution to complete design work, assessment, and capital improvements as necessary for each property as identified through the annual assessment process. Planned improvements by year include:

2021
 Bison Park - utility extensions for planned restroom / cellular antennae building, improvements including irrigation upgrades, park equipment tree removal and replacement, signs, fencing site furnishings, etc., Butterfield Park - tennis and basketball court replacement, playground relocation and replacement, utility extensions for planned restroom / cellular antennae building, Mitchell Gulch Park - replace playground and construct permanent parking lot, Plum Creek playground and concrete replacement, site furniture / Plum Creek Central Park, Open Space Acquisition, and Centennial and Founders parks renovation project planning - design development

2022
 Recreation Center playground - replace sun damaged plastic components, Founders Park - pavilion and restroom improvements, concrete repair and replacement, and Centennial Park -tennis court replacement

2023
 Construct permanent restrooms at the amphitheater, utility connections and greenroom addition at Philip S. Miller Park, Castle Highlands Park - Playground and court replacement, The Meadows Pond renovation near the Grange, and Wolfensberger alternate trail for Ridgeline Open Space

Expenditures	2021	2022	2023	2024	2025	Total
Park Improvements	\$ 3,800,000	\$ 925,000	\$ 1,000,000	\$ -	\$ -	\$ 5,725,000
Total Expenditures	\$ 3,800,000	\$ 925,000	\$ 1,000,000	\$ -	\$ -	\$ 5,725,000

Funding Sources	2021	2022	2023	2024	2025	Total
Douglas County Shareback	\$ 3,360,000	\$ 485,000	\$ 560,000	\$ -	\$ -	\$ 4,405,000
Lottery Funds	440,000	440,000	440,000	-	-	1,320,000
Total Funding Sources	\$ 3,800,000	\$ 925,000	\$ 1,000,000	\$ -	\$ -	\$ 5,725,000

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

PARKS AND RECREATION CAPITAL FUND

PARKS & RECREATION DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Future Park Planning	\$ -	\$ 450,000	\$ 4,500,000	\$ -	\$ -	\$ 4,950,000
Recreation Center	-	-	-	500,000	2,000,000	2,500,000
Total Expenditures by Year	\$ -	\$ 450,000	\$ 4,500,000	\$ 500,000	\$ 2,000,000	\$ 7,450,000

Project Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ 450,000	\$ 4,500,000	\$ 500,000	\$ 2,000,000	\$ 7,450,000
Total Funding Sources by Year	\$ -	\$ 450,000	\$ 4,500,000	\$ 500,000	\$ 2,000,000	\$ 7,450,000

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.



Future site for Cobblestone Ranch Park

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Future Park Planning

Project Number: 75-21			
Contact: Jeff Smullen, Assistant Director of Parks & Recreation		5 Year Historical Total	\$ 7,077,221
Department: Parks & Recreation Department		2021-2025 Total	4,950,000
Category: Parks/Trails		CIP Project Total (2016-2025):	\$ 12,027,221
Useful Life: 50 Years			

Description and Justification

Parks and Recreation requests funding for future park planning that includes new community and neighborhood parks to maintain current levels of service with population growth. Staff completed a parks prioritization study in 2018 to determine the location of the next neighborhood park, which will be decided following the completion of Cobblestone Park.

Recent Parks:

Planning for the Cobblestone Ranch Park began in 2019 with construction taking place in 2020/2021. Current planning includes constructing a new neighborhood park every other year with the next park scheduled for 2022. Park locations are determined based on the parks prioritization study. An indoor recreation facility is currently being planned following the 2022 project and may have an outdoor park component depending on site selection. A recreation facility study will be completed prior to design.

Expenditures	2021	2022	2023	2024	2025	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	2021	2022	2023	2024	2025	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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Recreation Center

Project Number:	79-14		
Contact:	Jeff Smullen, Assistant Director of Parks & Recreation	5 Year Historical Total	\$ -
Department:	Parks & Recreation Department	2021-2025 Total	2,500,000
Category:	Building	CIP Project Total (2016-2025):	\$ 2,500,000
Useful Life:	50 Years		

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. In 2025, preconstruction services of \$2.0 million are budgeted to finalize design in order to complete a full bid ready package for development.

Expenditures	2021	2022	2023	2024	2025	Total
Design	\$ -	\$ -	\$ -	\$ 500,000	\$ 2,000,000	\$ 2,500,000
Total Expenditures	\$ -	\$ -	\$ -	\$ 500,000	\$ 2,000,000	\$ 2,500,000

Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ -	\$ -	\$ 500,000	\$ 2,000,000	\$ 2,500,000
Total Funding Sources	\$ -	\$ -	\$ -	\$ 500,000	\$ 2,000,000	\$ 2,500,000

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. It is anticipated that the facility will have to operate through user fees generated and the use of the sale tax allocation for parks and recreation.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

POLICE CAPITAL FUND

POLICE DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Police Basement Remodel	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000
Total Expenditures by Year	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000

Project Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000
Total Funding Sources by Year	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000

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.



K9 memorial in front of Police Station

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Police Basement Remodel

Project Number: 70-20			
Contact: Jack Cauley, Chief of Police		5 Year Historical Total	\$ -
Department: Police Department		2021-2025 Total	300,000
Category: Building		CIP Project Total (2016-2025):	\$ 300,000
Useful Life: 30 years			

Description and Justification

In an effort to consolidate resources and long-term storage of evidence, the Police Department entered into an agreement with the Douglas County Sheriff's Office in January 2018. This agreement stipulated that all items of evidentiary value would be transferred from the Castle Rock property evidence room to the Douglas County Sheriff's Office, Property and Evidence Facility.

The Police Department's previous property evidence area is approximately 1,700 square feet of usable office space. In an effort to re-purpose the existing room, it would be required to finish this area with drywall, carpeting, and ceiling tiles. This would also require additional electrical outlets and network connections for future office space. Various personnel would be relocated to this new office space upon completion.

Expenditures	2021	2022	2023	2024	2025	Total
Construction	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000
Total Expenditures	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000

Funding Sources	2021	2022	2023	2024	2025	Total
Impact Fees	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000
Total Funding Sources	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

WATER FUND

CASTLE ROCK WATER

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Water Supply Wells	\$ 2,725,000	\$ 225,000	\$5,725,000	\$2,725,000	\$ 2,725,000	\$ 14,125,000
Water Treatment Plant Upgrades & Equip.	150,000	150,000	150,000	150,000	255,000	855,000
Water Storage (Tank) Projects	4,500,000	50,000	50,000	50,000	425,000	5,075,000
Pump & Distribution System Upgrades	450,000	300,000	300,000	300,000	1,400,000	2,750,000
Waterline Rehab/Replacement	850,000	650,000	324,000	600,000	988,000	3,412,000
Security & SCADA System Improvements	1,513,000	1,925,000	1,720,000	1,930,000	475,000	7,563,000
General Facility Upgrades & Replacements	230,000	250,000	225,000	200,000	200,000	1,105,000
Administration & Customer Service Building	1,881,344	-	-	-	-	1,881,344
Total Expenditures by Year	\$ 12,299,344	\$ 3,550,000	\$ 8,494,000	\$ 5,955,000	\$ 6,468,000	\$ 36,766,344

Project Funding Sources	2021	2022	2023	2024	2025	Total
Metered Water Sales	\$ 6,568,000	\$ 3,550,000	\$ 5,170,000	\$ 3,455,000	\$ 4,980,000	\$ 23,723,000
System Development Fees	5,731,344	-	3,324,000	2,500,000	1,488,000	13,043,344
Total Funding Sources by Year	\$ 12,299,344	\$ 3,550,000	\$ 8,494,000	\$ 5,955,000	\$ 6,468,000	\$ 36,766,344

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.



Well drilling site

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Water Supply Wells

Project Number: Multiple		
Contact: Jeanne Stevens, Engineering Manager	5 Year Historical Total	\$ 3,806,536
Department: Castle Rock Water	2021-2025 Total	14,125,000
Category: Infrastructure	CIP Project Total (2016-2025):	\$ 17,931,536
Useful Life: 25 Years		

Description and Justification

Well replacement schedules are based on an assumed 25-year life from each well and a replacement will be drilled at the end of the 25-year period. Unused well facilities are a liability from an insurance standpoint. The Colorado Department of Public Health requires that unused wells be formally abandoned. As existing wells deteriorate, they need to be rehabilitated or replaced.

Variable Frequency Drive (VFD) motor controller replacement - This project is intended to replace VFD's which are obsolete and, place 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 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.

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

Expenditures	2021	2022	2023	2024	2025	Total
Well Equipment and Replacement	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000
VFD Replacement	125,000	125,000	125,000	125,000	125,000	625,000
Well Redrill	2,500,000	-	2,500,000	-	2,500,000	7,500,000
New Wells and Waterlines	-	-	3,000,000	2,500,000	-	5,500,000
Total Expenditures	\$ 2,725,000	\$ 225,000	\$ 5,725,000	\$ 2,725,000	\$ 2,725,000	\$ 14,125,000

Funding Sources	2021	2022	2023	2024	2025	Total
Metered Water Sales	\$ 2,725,000	\$ 225,000	\$ 2,725,000	\$ 225,000	\$ 2,725,000	\$ 8,625,000
System Development Fees	-	-	3,000,000	2,500,000	-	5,500,000
Total Funding Sources	\$ 2,725,000	\$ 225,000	\$ 5,725,000	\$ 2,725,000	\$ 2,725,000	\$ 14,125,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Water Treatment Plant Upgrades & Equip.

Project Number:	Multiple		
Contact:	Jeanne Stevens, Engineering Manager	5 Year Historical Total	\$ 461,083
Department:	Castle Rock Water	2021-2025 Total	855,000
Category:	Infrastructure	CIP Project Total (2016-2025):	\$ 1,316,083
Useful Life:	50 Years		

Description and Justification

This facility upgrades project provide for miscellaneous improvements at existing Water Treatment Plants (WTP). There are four active water treatment plants and 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 the water treatment plant. 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.

Expenditures	2021	2022	2023	2024	2025	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
Total Expenditures	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 255,000	\$ 855,000

Funding Sources	2021	2022	2023	2024	2025	Total
Metered Water Sales	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 255,000	\$ 855,000
Total Funding Sources	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 255,000	\$ 855,000

Operational Impact

There is no operational impact anticipated for these projects.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Water Storage (Tank) Projects

Project Number: Multiple		
Contact: Jeanne Stevens, Engineering Manager	5 Year Historical Total	\$ 62,848
Department: Castle Rock Water	2021-2025 Total	5,075,000
Category: Infrastructure	CIP Project Total (2016-2025):	\$ 5,137,848
Useful Life: 50 Years		

Description and Justification

The tank rehabilitation project includes structural and/or site modifications to existing tanks to ensure reliability and tank security as needed. This includes \$400,000 for tank rehabilitation in 2021, \$250,000 for tank 15 site improvements, \$3.85 million in 2021 for a Liberty Village storage tank, and \$375,000 for tank demolition in 2025. Ongoing tank rehabilitation costs of \$50,000 are also included.

Expenditures	2021	2022	2023	2024	2025	Total
Tank Rehabilitation	\$ 400,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 600,000
Tank 15 Wall/Slope/Fence Repair	250,000	-	-	-	-	250,000
Liberty Village Yellow Zone Tank	3,850,000	-	-	-	-	3,850,000
Tank 6B Demolition	-	-	-	-	375,000	375,000
Total Expenditures	\$ 4,500,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 425,000	\$ 5,075,000

Funding Sources	2021	2022	2023	2024	2025	Total
Metered Water Sales	\$ 650,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 425,000	\$ 1,225,000
System Development Fees	3,850,000	-	-	-	-	3,850,000
Total Funding Sources	\$ 4,500,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 425,000	\$ 5,075,000

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name Pump & Distribution System Upgrades

Project Number: Multiple			
Contact: Jeanne Stevens, Engineering Manager		5 Year Historical Total	\$ 1,096,120
Department: Castle Rock Water		2021-2025 Total	2,750,000
Category: Equipment		CIP Project Total (2016-2025):	\$ 3,846,120
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 certain zones will have to be increased by 2025 to move the water to distribution and storage.

The Milestone Pump Station project will upgrade a pressure reducing valve PRV at the Milestone Pump Station. A PRV vault would provide some redundancy to the distribution system and also improve water quality in this older part of Town. The distribution system upgrades project will accomplish future year water transmission and distribution facility upgrades. Valves, pressure reducing valves and vaults, and other accessories often require repair and/or replacement before water main pipes do. Such items must be maintained in good operable condition to ensure reliable water transmission and distribution. The Diamond Ridge Pump Station Control Valve upgrade is required to control WISE deliveries in 2021.

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

Expenditures	2021	2022	2023	2024	2025	Total
Pump Station Equipment Replacement	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Distribution System Upgrades	250,000	250,000	250,000	250,000	250,000	1,250,000
Well 9 Demolition	75,000	-	-	-	-	75,000
Diamond Ridge Pump Station	75,000	-	-	-	-	75,000
Green Zone Pumping Upgrades Phase 1	-	-	-	-	1,100,000	1,100,000
Total Expenditures	\$ 450,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 1,400,000	\$ 2,750,000

Funding Sources	2021	2022	2023	2024	2025	Total
Metered Water Sales	\$ 450,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 1,650,000
System Development Fees	-	-	-	-	1,100,000	1,100,000
Total Funding Sources	\$ 450,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 1,400,000	\$ 2,750,000

Operational Impact

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Waterline Rehab/Replacement

Project Number:	Multiple		
Contact:	Jeanne Stevens, Engineering Manager	5 Year Historical Total	\$ 1,378,878
Department:	Castle Rock Water	2021-2025 Total	3,412,000
Category:	Infrastructure	CIP Project Total (2016-2025):	\$ 4,790,878
Useful Life:	50 Years		

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.

In 2023, the Liggett Road upsize project will increase the waterline size on Liggett road and the Oakwood waterline replacement project is to replace the old waterlines in the Oakwood neighborhood in order to update older infrastructure and include stormwater in that area. Also in 2023, the 5th Street Red Zone connection is to update the connection for the Red Zone on 5th Street and is timed with Public Works road improvements.

Expenditures	2021	2022	2023	2024	2025	Total
Waterline Rehab/Replacement	\$ -	\$ -	\$ -	\$ 600,000	\$ 600,000	\$ 1,200,000
Glovers Waterline Replacement	850,000	650,000	-	-	-	1,500,000
Liggett Road Upsize	-	-	174,000	-	-	174,000
Tank 11 to Pine Canyon 20"	-	-	-	-	388,000	388,000
5th St. Red Zone Connection	-	-	150,000	-	-	150,000
Total Expenditures	\$ 850,000	\$ 650,000	\$ 324,000	\$ 600,000	\$ 988,000	\$ 3,412,000

Funding Sources	2021	2022	2023	2024	2025	Total
Metered Water Sales	\$ 850,000	\$ 650,000	\$ -	\$ 600,000	\$ 600,000	\$ 2,700,000
System Development Fees	-	-	324,000	-	388,000	712,000
Total Funding Sources	\$ 850,000	\$ 650,000	\$ 324,000	\$ 600,000	\$ 988,000	\$ 3,412,000

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name Administration & Customer Service Building

Project Number: 77-57		
Contact: Tim Friday, Assistant Director of Castle Rock Water	5 Year Historical Total	\$ 1,828,673
Department: Castle Rock Water	2021-2025 Total	1,881,344
Category: Building	CIP Project Total (2016-2025):	\$ 3,710,017
Useful Life: 50 Years		

Description and Justification

This project accommodates construction of a new Administration and Customer Service Building for Castle Rock Water. The existing Kellogg Facility will be repurposed for staff currently housed in trailers. The new building will accommodate existing and future Administration and Customer Service staff within Castle Rock Water. The Administration and Customer Service Team currently is short of space by approximately 3,000 square feet. The new facility will be designed and constructed to meet the needs of the department through buildout of the Town. A site assessment was conducted in 2013 that details existing and future conditions and identifies space needs for Castle Rock Water. The Water Fund's portion of the project will utilize reserves accumulated in prior years through system development fees and rates revenues. This project helps Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses. Construction of the Castle Rock Administration and Customer Service Building was originally requested for the 2020 budget, but due to economic conditions it was delayed to 2021.

Estimated Construction Cost
 Water Fund: \$1,881,344
 Water Resources Fund: \$842,017
 Stormwater Fund: \$862,698
 Wastewater Fund: \$788,853

Expenditures	2021	2022	2023	2024	2025	Total
Construction	\$ 1,881,344	\$ -	\$ -	\$ -	\$ -	\$ 1,881,344
Total Expenditures	\$ 1,881,344	\$ -	\$ -	\$ -	\$ -	\$ 1,881,344

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 1,881,344	\$ -	\$ -	\$ -	\$ -	\$ 1,881,344
Total Funding Sources	\$ 1,881,344	\$ -	\$ -	\$ -	\$ -	\$ 1,881,344

Operational Impact

There are general operations expenditures of approximately \$30,000 per year. The Water Fund's portion is \$12,119 per year, the Water Resources Fund's portion is \$5,689 per year, the Stormwater Fund's portion is \$5,510 per year, and the Wastewater Fund's portion is \$6,682 per year.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

WATER RESOURCES FUND

CASTLE ROCK WATER

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
WISE Project	\$ 2,300,695	\$ 9,692,472	\$ 9,731,260	\$ 1,020,048	\$ 1,308,836	\$ 24,053,311
Alternative Source of Supply Project	1,050,000	150,000	-	-	-	1,200,000
Newlin Gulch Pipeline and Pump Station	500,000	-	-	-	-	500,000
Castle Rock Reservoir System	7,530,000	6,780,000	-	4,400,000	-	18,710,000
Cherry Creek Water Rights	250,000	-	-	-	-	250,000
Administration & Customer Service Bldg	842,017	-	-	-	-	842,017
Miscellaneous Projects	425,383	-	850,000	149,000	982,000	2,406,383
Chatfield Reallocation Project	-	1,075,000	-	1,075,000	-	2,150,000
PCWPF Expansion	-	-	400,000	-	-	400,000
Parker Water & Sanitation Capacity	-	-	-	3,840,000	3,840,000	7,680,000
Total Expenditures by Year	\$12,898,095	\$17,697,472	\$10,981,260	\$10,484,048	\$6,130,836	\$ 58,191,711

Project Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 4,820,523	\$ 5,840,166	\$ 3,623,816	\$ 3,459,736	\$ 2,023,176	\$ 19,767,416
Water Resources Fees	8,077,572	11,857,306	7,357,444	7,024,312	4,107,660	38,424,295
Total Funding Sources by Year	\$12,898,095	\$17,697,472	\$10,981,260	\$10,484,048	\$6,130,836	\$ 58,191,711

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

WISE Project

Project Number: 77-72			
Contact: Matt Benak, Water Resources Manager		5 Year Historical Total	\$ 39,382,168
Department: Castle Rock Water		2021-2025 Total	24,053,311
Category: Water Rights		CIP Project Total (2016-2025):	\$ 63,435,479
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 percent 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. This project includes securing 2,000 acre-feet per year (AF/year) (Castle Rock's original subscription plus 1,000 AF of the Douglas County option) of water on average from Denver and Aurora and building 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. Funds are also included for the purchase from PWSD of additional treatment capacity in Rueter Hess Reservoir (RHR).

Expenditures	2021	2022	2023	2024	2025	Total
WISE Local Infrastructure	\$ 2,000,000	\$ 9,000,000	\$ 9,000,000	\$ -	\$ -	\$ 20,000,000
WISE Infrastructure	-	250,000	-	-	-	250,000
WISE Option Agreement	33,695	168,472	449,260	730,048	1,010,836	2,392,311
PWSD Asset Recovery Charges	267,000	274,000	282,000	290,000	298,000	1,411,000
Purchase Capacity in PWSD RHR	-	-	-	-	-	-
Total Expenditures	\$ 2,300,695	\$ 9,692,472	\$ 9,731,260	\$ 1,020,048	\$ 1,308,836	\$ 24,053,311

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 759,229	\$ 3,198,516	\$ 3,211,316	\$ 336,616	\$ 431,916	\$ 7,937,593
Water Resources Fees	1,541,466	6,493,956	6,519,944	683,432	876,920	16,115,718
Total Funding Sources	\$ 2,300,695	\$ 9,692,472	\$ 9,731,260	\$ 1,020,048	\$ 1,308,836	\$ 24,053,311

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 \$4.6 million each year once the full WISE delivery schedule begins in 2021 and beyond and are incorporated in the Water Resources Fund's operations budget.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Alternative Source of Supply Project

Project Number:	77-30		
Contact:	Matt Benak, Water Resources Manager	5 Year Historical Total	\$ 54,690,312
Department:	Castle Rock Water	2021-2025 Total	1,200,000
Category:	Water Rights	CIP Project Total (2016-2025):	\$ 55,890,312
Useful Life:	50 Years		

Description and Justification

The Alternative Source of Supply (ASOS) 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 also includes legal and engineering due diligence, construction of a well field on the Box Elder (BE) property (located in Weld County), demolishing current structures on BE property, abandoning existing wells, 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. The Town owns substantial Denver Basin groundwater supplies and a limited amount of surface water on Plum Creek. However, as the demand for water increases with the Town population, other supplies will need to be secured to meet that demand. Sustainable water supplies must be imported to the Town with a focus on proximity and feasibility in order to meet the Town goal of 75% renewable water.

Expenditures	2021	2022	2023	2024	2025	Total
ASOS Box Elder Creek Project	\$ 300,000	\$ 150,000	\$ -	\$ -	\$ -	\$ 450,000
ASOS Demolish Structures on BE Property	750,000	-	-	-	-	750,000
Total Expenditures	\$ 1,050,000	\$ 150,000	\$ -	\$ -	\$ -	\$ 1,200,000

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 346,500	\$ 49,500	\$ -	\$ -	\$ -	\$ 396,000
Water Resources Fees	703,500	100,500	-	-	-	804,000
Total Funding Sources	\$ 1,050,000	\$ 150,000	\$ -	\$ -	\$ -	\$ 1,200,000

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 future operational costs will be funded by rates.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Newlin Gulch Pipeline and Pump Station

Project Number:	78-04		
Contact:	Matt Benak, Water Resources Manager	5 Year Historical Total	\$ 3,042,125
Department:	Castle Rock Water	2021-2025 Total	500,000
Category:	Infrastructure	CIP Project Total (2016-2025):	\$ 3,542,125
Useful Life:	50 Years		

Description and Justification

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

Expenditures	2021	2022	2023	2024	2025	Total
Upgrades for Newlin Gulch Pipeline	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
Total Expenditures	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 165,000	\$ -	\$ -	\$ -	\$ -	\$ 165,000
Water Resources Fees	335,000	-	-	-	-	335,000
Total Funding Sources	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Castle Rock Reservoir System

Project Number: Multiple			
Contact: Matt Benak, Water Resources Manager		5 Year Historical Total	\$ 250,000
Department: Castle Rock Water		2021-2025 Total	18,710,000
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 18,960,000
Useful Life: 50 Years			

Description and Justification

Castle Rock reservoir number 2 project includes the construction of a new 1,130 acre-foot raw water storage reservoir on the Plum Creek Trust property in Sedalia, Colorado, followed by a 370 acre-foot expansion of the existing Castle Rock Reservoir No. 1 (CR-1) reservoir on the same property in 2024. This additional storage space will allow Castle Rock Water to store fully-reusable effluent and 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. Additionally, monies are included to perform repair and maintenance activities on Castle Rock Reservoir No. 1 in 2021 and to improve CR-1 Diversion adjacent to the Plum Creek Water Purification Facility.

Expenditures	2021	2022	2023	2024	2025	Total
Castle Rock Reservoir No. 2	\$ 6,780,000	\$ 6,780,000	\$ -	\$ -	\$ -	\$ 13,560,000
CR-1 Diversion Improvements	750,000	-	-	-	-	750,000
Castle Rock Reservoir No. 1 Expansion	-	-	-	4,400,000	-	4,400,000
Total Expenditures	\$ 7,530,000	\$ 6,780,000	\$ -	\$ 4,400,000	\$ -	\$ 18,710,000

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 2,484,900	\$ 2,237,400	\$ -	\$ 1,452,000	\$ -	\$ 6,174,300
Water Resources Fees	5,045,100	4,542,600	-	2,948,000	-	12,535,700
Total Funding Sources	\$ 7,530,000	\$ 6,780,000	\$ -	\$ 4,400,000	\$ -	\$ 18,710,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Cherry Creek Water Rights

Project Number:	Multiple	5 Year Historical Total	\$ -
Contact:	Matt Benak, Water Resources Manager	2021-2025 Total	250,000
Department:	Castle Rock Water	CIP Project Total (2016-2025):	\$ 250,000
Category:	Infrastructure		
Useful Life:	50 Years		

Description and Justification

As part of Castle Rock's goal towards 75 percent renewable water, the Town is pursuing the purchase of water rights from Arapahoe County Water and Wastewater Authority (ACWWA) as part of their participation in the Cherry Creek Project Water Authority. This purchase would give 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 water rights. Once acquired, the Town could put the water to immediate use through a partnership with the Pinery. New infrastructure would need to be built as well to pump, transmit and store the Cherry Creek water rights to realize the maximum yield.

Expenditures	2021	2022	2023	2024	2025	Total
Cherry Creek Pipeline, Alluvial Wells, etc.	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000
Total Expenditures	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 82,500	\$ -	\$ -	\$ -	\$ -	\$ 82,500
Water Resources Fees	167,500	-	-	-	-	167,500
Total Funding Sources	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Operational Impact

The operational impact of this project will be known following project completion. Costs will be budgeted in the future when better understood.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Administration & Customer Service Bldg

Project Number: 77-57			
Contact: Tim Friday, Assistant Director of Castle Rock Water		5 Year Historical Total	\$ 819,042
Department: Castle Rock Water		2021-2025 Total	842,017
Category: Building		CIP Project Total (2016-2025):	\$ 1,661,059
Useful Life: 50 Years			

Description and Justification

This project accommodates construction of a new Administration and Customer Service Building for Castle Rock Water. The existing Kellogg Facility will be repurposed for staff currently housed in trailers. The new building will accommodate existing and future Administration and Customer Service staff within Castle Rock Water. The Administration and Customer Service Team currently is short of space by approximately 3,000 square feet. The new facility will be designed and constructed to meet the needs of the department through buildout of the Town. A site assessment was conducted in 2013 that details existing and future conditions and identifies space needs for Castle Rock Water. The Water Fund's portion of the project will utilize reserves accumulated in prior years through system development fees and rates revenues. This project helps Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses. Construction of the Castle Rock Administration and Customer Service Building was originally requested for the 2020 budget, but due to economic conditions it was delayed to 2021.

Estimated Construction Cost
 Water Fund: \$1,881,344
 Water Resources Fund: \$842,017
 Stormwater Fund: \$862,698
 Wastewater Fund: \$788,853

Expenditures	2021	2022	2023	2024	2025	Total
Construction	\$ 842,017	\$ -	\$ -	\$ -	\$ -	\$ 842,017
Total Expenditures	\$ 842,017	\$ -	\$ -	\$ -	\$ -	\$ 842,017

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 842,017	\$ -	\$ -	\$ -	\$ -	\$ 842,017
Total Funding Sources	\$ 842,017	\$ -	\$ -	\$ -	\$ -	\$ 842,017

Operational Impact

There are general operations expenditures of approximately \$30,000 per year. The Water Fund's portion is \$12,119 per year, the Water Resources Fund's portion is \$5,689 per year, the Stormwater Fund's portion is \$5,510 per year, and the Wastewater Fund's portion is \$6,682 per year.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Miscellaneous Projects

Project Number: Multiple			
Contact: Matt Benak, Water Resources Manager		5 Year Historical Total	\$ 231,678
Department: Castle Rock Water		2021-2025 Total	2,406,383
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 2,638,061
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, additional stream gages and improvements to Castle Rock Water's SCADA system.

Expenditures	2021	2022	2023	2024	2025	Total
ASR Program	\$ -	\$ -	\$ 850,000	\$ -	\$ 200,000	\$ 1,050,000
Stream Gages	250,000	-	-	-	-	250,000
SCADA System Improvements	175,383	-	-	149,000	782,000	1,106,383
Total Expenditures	\$ 425,383	\$ -	\$ 850,000	\$ 149,000	\$ 982,000	\$ 2,406,383

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 140,376	\$ -	\$ 280,500	\$ 49,170	\$ 324,060	\$ 794,106
Water Resources Fees	285,007	-	569,500	99,830	657,940	1,612,277
Total Funding Sources	\$ 425,383	\$ -	\$ 850,000	\$ 149,000	\$ 982,000	\$ 2,406,383

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Chatfield Reallocation Project

Project Number: 77-29			
Contact: Matt Benak, Water Resources Manager		5 Year Historical Total	\$ 3,242,597
Department: Castle Rock Water		2021-2025 Total	2,150,000
Category: Water Rights		CIP Project Total (2016-2025):	\$ 5,392,597
Useful Life: Perpetual			

Description and Justification

This project will fund the participation and maintenance costs of the Town's reserved storage space (590 acre-feet) in the Chatfield Reservoir Reallocation Project. The Town plans to increase its participation rate to 2,000 acre-feet over the next 15 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. The future goal of the Town is to provide 75 percent renewable water supply annually to its customers and this project will be a key component to achieve that goal.

Expenditures	2021	2022	2023	2024	2025	Total
Additional Storage	\$ -	\$ 1,075,000	\$ -	\$ 1,075,000	\$ -	\$ 2,150,000
Total Expenditures	\$ -	\$ 1,075,000	\$ -	\$ 1,075,000	\$ -	\$ 2,150,000

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ -	\$ 354,750	\$ -	\$ 354,750	\$ -	\$ 709,500
Water Resources Fees	-	720,250	-	720,250	-	1,440,500
Total Funding Sources	\$ -	\$ 1,075,000	\$ -	\$ 1,075,000	\$ -	\$ 2,150,000

Operational Impact

Future operating and maintenance expenses of the reservoir are anticipated to be approximately \$120,000 a year beginning in 2021 and beyond and are incorporated in the Water Resources Fund's operations budget.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

PCWPF Expansion

Project Number:	77-75		
Contact:	Matt Benak, Water Resources Manager	5 Year Historical Total	\$ 16,360,572
Department:	Castle Rock Water	2021-2025 Total	400,000
Category:	Infrastructure	CIP Project Total (2016-2025):	\$ 16,760,572
Useful Life:	50 Years		

Description and Justification

Advanced treatment processes are necessary for the effective treatment of the Town's Plum Creek surface water supplies. The future goal of the Town is to provide 75 percent 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	2021	2022	2023	2024	2025	Total
PCWPF Expansion	\$ -	\$ -	\$ 400,000	\$ -	\$ -	\$ 400,000
Total Expenditures	\$ -	\$ -	\$ 400,000	\$ -	\$ -	\$ 400,000

Funding Sources	2021	2022	2023	2024	2025	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 2021 and beyond and are incorporated in the Water Resources Fund's operations budget.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Parker Water & Sanitation Capacity

Project Number:	Multiple		
Contact:	Matt Benak, Water Resources Manager	5 Year Historical Total	\$ 250,000
Department:	Castle Rock Water	2021-2025 Total	<u>7,680,000</u>
Category:	Infrastructure	CIP Project Total (2016-2025):	\$ 7,930,000
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 Rueter-Hess Water Purification Facility (PWSD 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	2021	2022	2023	2024	2025	Total
Capacity in PWSD RHWTF	\$ -	\$ -	\$ -	\$ 3,840,000	\$ 3,840,000	\$ 7,680,000
Total Expenditures	\$ -	\$ -	\$ -	\$ 3,840,000	\$ 3,840,000	\$ 7,680,000

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ -	\$ -	\$ -	\$ 1,267,200	\$ 1,267,200	\$ 2,534,400
Water Resources Fees	-	-	-	2,572,800	2,572,800	5,145,600
Total Funding Sources	\$ -	\$ -	\$ -	\$ 3,840,000	\$ 3,840,000	\$ 7,680,000

Operational Impact

The operational impact of this project will be known following project completion. Costs will be budgeted in the future when better understood.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

STORMWATER FUND

CASTLE ROCK WATER

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Minor Drainageway Stabilization	\$ 184,470	\$ 190,927	\$ 197,609	\$ 204,526	\$ 155,319	\$ 932,851
Stream Stabilization	7,128,092	784,000	88,005	1,411,481	1,037,333	10,448,911
Detention Pond Retrofits	59,384	61,463	63,614	65,840	68,017	318,318
Watershed Master Plan Updates	30,000	337,313	369,274	293,361	430,000	1,459,948
Administration & Customer Service Building	862,698	-	-	-	-	862,698
Corrugated Metal Pipe Rehabilitation	-	295,022	305,347	316,035	326,480	1,242,884
Total Expenditures by Year	\$ 8,264,644	\$ 1,668,725	\$ 1,023,849	\$ 2,291,243	\$ 2,017,149	\$ 15,265,610

Project Funding Sources	2021	2022	2023	2024	2025	Total
Stormwater Charges	\$ 3,840,083	\$ 1,089,562	\$ 776,546	\$ 1,414,949	\$ 1,286,556	\$ 8,407,696
System Development Fees	4,424,561	579,163	247,303	876,294	730,593	6,857,914
Total Funding Sources by Year	\$ 8,264,644	\$ 1,668,725	\$ 1,023,849	\$ 2,291,243	\$ 2,017,149	\$ 15,265,610

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.



Industrial Tributary

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Minor Drainageway Stabilization

Project Number: Multiple			
Contact: David Van Dellen, Stormwater Manager		5 Year Historical Total	\$ 334,068
Department: Castle Rock Water		2021-2025 Total	932,851
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 1,266,919
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	2021	2022	2023	2024	2025	Total
Minor Drainage Way Stab PC	\$ 100,573	\$ 104,093	\$ 107,736	\$ 111,507	\$ 84,680	\$ 508,589
Minor Drainage Way Stab CC	83,897	86,834	89,873	93,019	70,639	424,262
Total Expenditures	\$ 184,470	\$ 190,927	\$ 197,609	\$ 204,526	\$ 155,319	\$ 932,851

Funding Sources	2021	2022	2023	2024	2025	Total
Stormwater Charges	\$ 115,372	\$ 119,410	\$ 130,060	\$ 127,916	\$ 97,141	\$ 589,899
System Development Fees	69,098	71,517	67,549	76,610	58,178	342,952
Total Funding Sources	\$ 184,470	\$ 190,927	\$ 197,609	\$ 204,526	\$ 155,319	\$ 932,851

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Stream Stabilization

Project Number: Multiple			
Contact: David Van Dellen, Stormwater Manager		5 Year Historical Total	\$ 334,068
Department: Castle Rock Water		2021-2025 Total	10,448,911
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 10,782,979
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 erosion. 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. 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:

2021 - McMurdo Gulch, Village North, East Plum Creek and 6400 South Tributary

2022 - Omni Tributary

2023 - McMurdo Gulch

2024 - McMurdo Gulch, Sellars Gulch, Parkview Tributary, East Plum Creek

2025 - McMurdo Gulch, Sellars Gulch, Parkview Tributary, East Plum Creek

Expenditures	2021	2022	2023	2024	2025	Total
Total Drainage Way Stabilization PC	\$ 4,981,592	\$ 784,000	\$ -	\$ 1,295,490	\$ 953,490	\$ 8,014,572
Total Drainage Way Stabilization CC	2,146,500	-	88,005	115,991	83,843	2,434,339
Total Expenditures	\$ 7,128,092	\$ 784,000	\$ 88,005	\$ 1,411,481	\$ 1,037,333	\$ 10,448,911

Funding Sources	2021	2022	2023	2024	2025	Total
Stormwater Charges	\$ 3,635,327	\$ 399,840	\$ 44,883	\$ 719,855	\$ 529,040	\$ 5,328,945
System Development Fees	3,492,765	384,160	43,122	691,626	508,293	5,119,966
Total Funding Sources	\$ 7,128,092	\$ 784,000	\$ 88,005	\$ 1,411,481	\$ 1,037,333	\$ 10,448,911

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Detention Pond Retrofits

Project Number: 77-18			
Contact: David Van Dellen, Stormwater Manager		5 Year Historical Total	\$ 117,156
Department: Castle Rock Water		2021-2025 Total	318,318
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 435,474
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	2021	2022	2023	2024	2025	Total
Detention Ponds	\$ 59,384	\$ 61,463	\$ 63,614	\$ 65,840	\$ 68,017	\$ 318,318
Total Expenditures	\$ 59,384	\$ 61,463	\$ 63,614	\$ 65,840	\$ 68,017	\$ 318,318

Funding Sources	2021	2022	2023	2024	2025	Total
Stormwater Charges	\$ 59,384	\$ 61,463	\$ 63,614	\$ 65,840	\$ 68,017	\$ 318,318
Total Funding Sources	\$ 59,384	\$ 61,463	\$ 63,614	\$ 65,840	\$ 68,017	\$ 318,318

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Watershed Master Plan Updates

Project Number:	78-74		
Contact:	David Van Dellen, Stormwater Manager	5 Year Historical Total	\$ -
Department:	Castle Rock Water	2021-2025 Total	1,459,948
Category:	Infrastructure	CIP Project Total (2016-2025):	\$ 1,459,948
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 basis 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	2021	2022	2023	2024	2025	Total
Master Plan GIS Database Tool	\$ -	\$ 61,462	\$ -	\$ -	\$ -	\$ 61,462
Watershed MP Updates	-	245,851	339,274	263,361	400,000	1,248,486
Chase Drains Installations	30,000	30,000	30,000	30,000	30,000	150,000
Total Expenditures	\$ 30,000	\$ 337,313	\$ 369,274	\$ 293,361	\$ 430,000	\$ 1,459,948

Funding Sources	2021	2022	2023	2024	2025	Total
Stormwater Charges	\$ 30,000	\$ 213,827	\$ 232,643	\$ 185,303	\$ 265,878	\$ 927,651
System Development Fees	-	123,486	136,631	108,058	164,122	532,297
Total Funding Sources	\$ 30,000	\$ 337,313	\$ 369,274	\$ 293,361	\$ 430,000	\$ 1,459,948

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name Administration & Customer Service Building

Project Number: 77-57		
Contact: Tim Friday, Assistant Director of Castle Rock Water	5 Year Historical Total	\$ -
Department: Castle Rock Water	2021-2025 Total	862,698
Category: Building	CIP Project Total (2016-2025):	\$ 862,698
Useful Life: 50 Years		

Description and Justification

This project accommodates construction of a new Administration and Customer Service Building for Castle Rock Water. The existing Kellogg Facility will be repurposed for staff currently housed in trailers. The new building will accommodate existing and future Administration and Customer Service staff within Castle Rock Water. The Administration and Customer Service Team currently is short of space by approximately 3,000 square feet. The new facility will be designed and constructed to meet the needs of the department through buildout of the Town. A site assessment was conducted in 2013 that details existing and future conditions and identifies space needs for Castle Rock Water. The Water Fund's portion of the project will utilize reserves accumulated in prior years through system development fees and rates revenues. This project helps Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses. Construction of the Castle Rock Administration and Customer Service Building was originally requested for the 2020 budget, but due to economic conditions it was delayed to 2021.

Estimated Construction Cost
 Water Fund: \$1,881,344
 Water Resources Fund: \$842,017
 Stormwater Fund: \$862,698
 Wastewater Fund: \$788,853

Expenditures	2021	2022	2023	2024	2025	Total
Construction	\$ 862,698	\$ -	\$ -	\$ -	\$ -	\$ 862,698
Total Expenditures	\$ 862,698	\$ -	\$ -	\$ -	\$ -	\$ 862,698

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 862,698	\$ -	\$ -	\$ -	\$ -	\$ 862,698
Total Funding Sources	\$ 862,698	\$ -	\$ -	\$ -	\$ -	\$ 862,698

Operational Impact

There are general operations expenditures of approximately \$30,000 per year. The Water Fund's portion is \$12,119 per year, the Water Resources Fund's portion is \$5,689 per year, the Stormwater Fund's portion is \$5,510 per year, and the Wastewater Fund's portion is \$6,682 per year.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Corrugated Metal Pipe Rehabilitation

Project Number: 78-73		
Contact: David Van Dellen, Stormwater Manager	5 Year Historical Total	\$ -
Department: Castle Rock Water	2021-2025 Total	1,242,884
Category: Infrastructure	CIP Project Total (2016-2025):	\$ 1,242,884
Useful Life: 20-50 Years		

Description and Justification

This program is required to address aging stormwater infrastructure. Existing corrugated metal pipe (CMP) has an average life expectancy of 30 years. If a pipe fails, it causes corrosion and deterioration, which would result in subgrade failure in pavement above the pipe. This program will help ensure rehabilitation to existing CMP systems prior to infrastructure failure and prolong the life of the system by 20 to 50 years. 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	2021	2022	2023	2024	2025	Total
CMP Rehabilitation	\$ -	\$ 295,022	\$ 305,347	\$ 316,035	\$ 326,480	\$ 1,242,884
Total Expenditures	\$ -	\$ 295,022	\$ 305,347	\$ 316,035	\$ 326,480	\$ 1,242,884

Funding Sources	2021	2022	2023	2024	2025	Total
Stormwater Charges	\$ -	\$ 295,022	\$ 305,347	\$ 316,035	\$ 326,480	\$ 1,242,884
Total Funding Sources	\$ -	\$ 295,022	\$ 305,347	\$ 316,035	\$ 326,480	\$ 1,242,884

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

WASTEWATER FUND

CASTLE ROCK WATER

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Lift Station Upgrades	\$ 444,000	\$ 410,000	\$ 370,000	\$ 370,000	\$ 370,000	\$ 1,964,000
Sewer Line Rehabilitation	2,950,000	2,400,000	2,400,000	2,400,000	2,400,000	12,550,000
Security System Improvements	333,000	590,000	369,000	279,000	50,000	1,621,000
PCWRA Projects	2,357,051	625,015	428,465	428,106	430,845	4,269,482
Prairie Hawk Interceptor	2,012,075	417,000	-	-	934,098	3,363,173
Malibu Street Upsize	450,000	-	-	50,000	450,000	950,000
Administration & Customer Service Building	788,853	-	-	-	-	788,853
Kinner Street Bottleneck	-	-	2,117,000	-	-	2,117,000
Total Expenditures by Year	\$ 9,334,979	\$ 4,442,015	\$ 5,684,465	\$ 3,527,106	\$ 4,634,943	\$ 27,623,508

Project Funding Sources	2021	2022	2023	2024	2025	Total
Wastewater Service Charges	\$ 4,082,000	\$ 3,755,000	\$ 5,611,000	\$ 3,404,000	\$ 3,175,000	\$ 20,027,000
System Development Fees	5,252,979	687,015	73,465	123,106	1,459,943	7,596,508
Total Funding Sources by Year	\$ 9,334,979	\$ 4,442,015	\$ 5,684,465	\$ 3,527,106	\$ 4,634,943	\$ 27,623,508

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.



Manhole Replacement

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Lift Station Upgrades

Project Number: Multiple		
Contact: Jeanne Stevens, Engineering Manager	5 Year Historical Total	\$ 196,679
Department: Castle Rock Water	2021-2025 Total	<u>1,964,000</u>
Category: Equipment	CIP Project Total (2016-2025):	\$ 2,160,679
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 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 motor controller (VFD) replacement is needed at Wastewater facilities to replace VFD's which are obsolete.

Lift station improvements are needed at the Mitchell Creek Lift Station in 2021.

Lift Station paving is needed to replace pavement at the Sellars Gulch Lift Station in 2021 and the Maher Lift Station access road in

Expenditures	2021	2022	2023	2024	2025	Total
Lift Station Rehab/Replacement	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Lift Station Pump & Motor Replacement	100,000	100,000	100,000	100,000	100,000	500,000
Lift Station Mixing Improvements	32,000	-	-	-	-	32,000
WW Facility VFD Replacements	220,000	220,000	220,000	220,000	220,000	1,100,000
Lift Station Paving	42,000	40,000	-	-	-	82,000
Total Expenditures	\$ 444,000	\$ 410,000	\$ 370,000	\$ 370,000	\$ 370,000	\$ 1,964,000

Funding Sources	2021	2022	2023	2024	2025	Total
Wastewater Service Charges	\$ 444,000	\$ 410,000	\$ 370,000	\$ 370,000	\$ 370,000	\$ 1,964,000
Total Funding Sources	\$ 444,000	\$ 410,000	\$ 370,000	\$ 370,000	\$ 370,000	\$ 1,964,000

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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Sewer Line Rehabilitation

Project Number: 75-62			
Contact: Jeanne Stevens, Engineering Manager		5 Year Historical Total	\$ 801,580
Department: Castle Rock Water		2021-2025 Total	12,550,000
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 13,351,580
Useful Life: 50 Years			

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 improvements and coordinate with the Public Works Department to complete projects ahead of the Pavement Maintenance Program to minimize impacts. The rehabilitation program will address the requirements of Environmental Protection Agency's (EPA) Capacity, Management, Operation, and Maintenance (CMOM) programs.

The Woodlands Manhole rehab project will eliminate manholes that are severely corroded, reduce sewer odors along a popular trail, and improve access.

Expenditures	2021	2022	2023	2024	2025	Total
Repair	\$ 2,400,000	\$ 2,400,000	\$ 2,400,000	\$ 2,400,000	\$ 2,400,000	\$ 12,000,000
Woodland Manholes	550,000	-	-	-	-	550,000
Total Expenditures	\$ 2,950,000	\$ 2,400,000	\$ 2,400,000	\$ 2,400,000	\$ 2,400,000	\$ 12,550,000

Funding Sources	2021	2022	2023	2024	2025	Total
Wastewater Service Charges	\$ 2,950,000	\$ 2,400,000	\$ 2,400,000	\$ 2,400,000	\$ 2,400,000	\$ 12,550,000
Total Funding Sources	\$ 2,950,000	\$ 2,400,000	\$ 2,400,000	\$ 2,400,000	\$ 2,400,000	\$ 12,550,000

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Security System Improvements

Project Number:	75-36		
Contact:	Tim Friday, Assistant Director of Castle Rock Water	5 Year Historical Total	\$ 40,089
Department:	Castle Rock Water	2021-2025 Total	1,621,000
Category:	Building	CIP Project Total (2016-2025):	\$ 1,661,089
Useful Life:	20 Years		

Description and Justification

These miscellaneous projects are needed to increase security at wastewater facilities in accordance with the vulnerability assessment. The vulnerability assessment identifies security and system integrity needs that may present a risk to public health and safety. These various projects include installing or replacing electronic access control, locks, and surveillance as needed at all wastewater facilities. Security at all Town of Castle Rock facilities is important for safeguarding investments in infrastructure and ensuring employee safety. Supervisory Control and Data Acquisition (SCADA) upgrades ensure that facilities continue to be monitored and controlled remotely.

Expenditures	2021	2022	2023	2024	2025	Total
Security Improvements	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
SCADA System Improvements	308,000	565,000	344,000	254,000	25,000	1,496,000
Total Expenditures	\$ 333,000	\$ 590,000	\$ 369,000	\$ 279,000	\$ 50,000	\$ 1,621,000

Funding Sources	2021	2022	2023	2024	2025	Total
Wastewater Service Charges	\$ 333,000	\$ 590,000	\$ 369,000	\$ 279,000	\$ 50,000	\$ 1,621,000
Total Funding Sources	\$ 333,000	\$ 590,000	\$ 369,000	\$ 279,000	\$ 50,000	\$ 1,621,000

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

PCWRA Projects

Project Number: Multiple			
Contact: Jeanne Stevens, Engineering Manager		5 Year Historical Total	\$ 355,000
Department: Castle Rock Water		2021-2025 Total	4,269,482
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 4,624,482
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	2021	2022	2023	2024	2025	Total
Capital Buy-In	\$ 2,002,051	\$ 270,015	\$ 73,465	\$ 73,106	\$ 75,845	\$ 2,494,482
PCWRA Rehab/Replacement	355,000	355,000	355,000	355,000	355,000	1,775,000
Total Expenditures	\$ 2,357,051	\$ 625,015	\$ 428,465	\$ 428,106	\$ 430,845	\$ 4,269,482

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 2,002,051	\$ 270,015	\$ 73,465	\$ 73,106	\$ 75,845	\$ 2,494,482
Wastewater Service Charges	355,000	355,000	355,000	355,000	355,000	1,775,000
Total Funding Sources	\$ 2,357,051	\$ 625,015	\$ 428,465	\$ 428,106	\$ 430,845	\$ 4,269,482

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Prairie Hawk Interceptor

Project Number: 75-92

Contact: Jeanne Stevens, Engineering Manager

Department: Castle Rock Water

Category: Equipment

Useful Life: 50 Years

5 Year Historical Total \$ -

2021-2025 Total 3,363,173

CIP Project Total (2016-2025): \$ 3,363,173

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 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	2021	2022	2023	2024	2025	Total
Prairie Hawk Interceptor	-	\$ 417,000	\$ -	\$ -	\$ -	\$ 417,000
Plum Creek Interceptor	2,012,075	-	-	-	934,098	2,946,173
Total Expenditures	\$ 2,012,075	\$ 417,000	\$ -	\$ -	\$ 934,098	\$ 3,363,173

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 2,012,075	\$ 417,000	\$ -	\$ -	\$ 934,098	\$ 3,363,173
Total Funding Sources	\$ 2,012,075	\$ 417,000	\$ -	\$ -	\$ 934,098	\$ 3,363,173

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Malibu Street Upsize

Project Number: 75-20			
Contact: Jeanne Stevens, Engineering Manager		5 Year Historical Total	\$ -
Department: Castle Rock Water		2021-2025 Total	950,000
Category: Infrastructure		CIP Project Total (2016-2025):	\$ 950,000
Useful Life: 50 Years			

Description and Justification

This project replaces 1,130 linear feet of existing 15-inch clay pipe to 18 or 21-inch PVC (size to be determined) on Malibu Street in the Village North neighborhood. Timing is coordinated with a stormwater project that may require realignment of the sewer, at which time it would be upsized. Upstream development is contributing to the cost of the project through system development fees. Phase II of the project will upsized an upstream segment to accommodate future flows.

Expenditures	2021	2022	2023	2024	2025	Total
Malibu Street Upsize	\$ 450,000	\$ -	\$ -	\$ 50,000	\$ 450,000	\$ 950,000
Total Expenditures	\$ 450,000	\$ -	\$ -	\$ 50,000	\$ 450,000	\$ 950,000

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 450,000	\$ -	\$ -	\$ 50,000	\$ 450,000	\$ 950,000
Total Funding Sources	\$ 450,000	\$ -	\$ -	\$ 50,000	\$ 450,000	\$ 950,000

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name Administration & Customer Service Building

Project Number: 77-57			
Contact: Tim Friday, Assistant Director of Castle Rock Water		5 Year Historical Total	\$ 767,464
Department: Castle Rock Water		2021-2025 Total	788,853
Category: Building		CIP Project Total (2016-2025):	\$ 1,556,317
Useful Life: 50 Years			

Description and Justification

This project accommodates construction of a new Administration and Customer Service Building for Castle Rock Water. The existing Kellogg Facility will be repurposed for staff currently housed in trailers. The new building will accommodate existing and future Administration and Customer Service staff within Castle Rock Water. The Administration and Customer Service Team currently is short of space by approximately 3,000 square feet. The new facility will be designed and constructed to meet the needs of the department through buildout of the Town. A site assessment was conducted in 2013 that details existing and future conditions and identifies space needs for Castle Rock Water. The Water Fund's portion of the project will utilize reserves accumulated in prior years through system development fees and rates revenues. This project helps Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses. Construction of the Castle Rock Administration and Customer Service Building was originally requested for the 2020 budget, but due to economic conditions it was delayed to 2021.

Estimated Construction Cost
 Water Fund: \$1,881,344
 Water Resources Fund: \$842,017
 Stormwater Fund: \$862,698
 Wastewater Fund: \$788,853

Expenditures	2021	2022	2023	2024	2025	Total
Construction	\$ 788,853	\$ -	\$ -	\$ -	\$ -	\$ 788,853
Total Expenditures	\$ 788,853	\$ -	\$ -	\$ -	\$ -	\$ 788,853

Funding Sources	2021	2022	2023	2024	2025	Total
System Development Fees	\$ 788,853	\$ -	\$ -	\$ -	\$ -	\$ 788,853
Total Funding Sources	\$ 788,853	\$ -	\$ -	\$ -	\$ -	\$ 788,853

Operational Impact

There are general operations expenditures of approximately \$30,000 per year. The Water Fund's portion is \$12,119 per year, the Water Resources Fund's portion is \$5,689 per year, the Stormwater Fund's portion is \$5,510 per year, and the Wastewater Fund's portion is \$6,682 per year.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Kinner Street Bottleneck

Project Number: 75-81

Contact: Jeanne Stevens, Engineering Manager

Department: Castle Rock Water

Category: Infrastructure

Useful Life: 50 Years

5 Year Historical Total \$ -

2021-2025 Total 2,117,000

CIP Project Total (2016-2025): \$ 2,117,000

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	2021	2022	2023	2024	2025	Total
Kinner Street Bottleneck	\$ -	\$ -	\$ 2,117,000	\$ -	\$ -	\$ 2,117,000
Total Expenditures	\$ -	\$ -	\$ 2,117,000	\$ -	\$ -	\$ 2,117,000

Funding Sources	2021	2022	2023	2024	2025	Total
Wastewater Service Charges	\$ -	\$ -	\$ 2,117,000	\$ -	\$ -	\$ 2,117,000
Total Funding Sources	\$ -	\$ -	\$ 2,117,000	\$ -	\$ -	\$ 2,117,000

Operational Impact

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

FLEET SERVICES FUND

PUBLIC WORKS DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Vehicles and Equipment	\$ 3,023,807	\$ 3,297,819	\$ 3,093,156	\$ 2,350,029	\$ 2,754,288	\$ 14,519,099
Total Expenditures by Year	\$ 3,023,807	\$ 3,297,819	\$ 3,093,156	\$ 2,350,029	\$ 2,754,288	\$ 14,519,099

Project Funding Sources	2021	2022	2023	2024	2025	Total
Vehicle Replacement Contributions	\$ 2,562,328	\$ 3,010,249	\$ 2,832,352	\$ 2,157,926	\$ 2,536,169	\$ 13,099,024
Vehicle Salvage	254,277	287,570	260,804	192,103	218,119	1,212,873
Transfers from Other Funds	207,202	-	-	-	-	207,202
Total Funding Sources by Year	\$ 3,023,807	\$ 3,297,819	\$ 3,093,156	\$ 2,350,029	\$ 2,754,288	\$ 14,519,099

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.

Summary of 2021 Vehicle Additions

Department	Make & Model	Estimated Cost	Justification
Fire/Development Services	Ford F-250	\$ 45,000	The Fire Department requests one additional vehicle related to the addition of one Fire Plans Examiner position.
Public Works	Ford F-150	33,000	The Public Works Department requests one additional vehicle related to an additional Construction Manager position.
Castle Rock Water	Ford F-150	33,000	Castle Rock Water requests the addition of one vehicle related to an additional Water Distribution Supervisor position.
Castle Rock Water/DoIT	Ford F-150	33,000	Castle Rock Water and DoIT requests the addition of one vehicle related to an additional Network and Systems Engineer position.
Castle Rock Water	Ford F-250	63,202	Castle Rock Water requests the addition of one vehicle related to an additional Electrician position.
Total		\$ 207,202	

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Vehicles and Equipment

Project Number: 70-40		
Contact: Paul Colell, Fleet Manager	5 Year Historical Total	\$ 14,291,599
Department: Public Works Department	2021-2025 Total	14,519,099
Category: Vehicles	CIP Project Total (2016-2025):	\$ 28,810,698
Useful Life: 4-15 years		

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 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 3 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, 3 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	2021	2022	2023	2024	2025	Total
Vehicles & Equipment	\$ 3,023,807	\$ 3,297,819	\$ 3,093,156	\$ 2,350,029	\$ 2,754,288	\$ 14,519,099
Total Expenditures	\$ 3,023,807	\$ 3,297,819	\$ 3,093,156	\$ 2,350,029	\$ 2,754,288	\$ 14,519,099

Funding Sources	2021	2022	2023	2024	2025	Total
Vehicle Replacement Contributions	\$ 2,562,328	\$ 3,010,249	\$ 2,832,352	\$ 2,157,926	\$ 2,536,169	\$ 13,099,024
Vehicle Salvage	254,277	287,570	260,804	192,103	218,119	1,212,873
Transfers from Other Funds	207,202	-	-	-	-	207,202
Total Funding Sources	\$ 3,023,807	\$ 3,297,819	\$ 3,093,156	\$ 2,350,029	\$ 2,754,288	\$ 14,519,099

Operational Impact

Increases in operational expenditures, including gasoline and maintenance for 2021 are primarily related to vehicle additions, and are estimated to be approximately \$12,000. Additional amounts are included for operational needs in the department budgets in which contributions occur from.

2021 Schedule of Vehicle & Equipment Purchase			
Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
DoIT Department			
SUV, General Purpose, Light Duty	Ford Escape Hybrid	\$ 3,000	\$ 32,131
Total DoIT Department	1	\$ 3,000	\$ 32,131
Facilities Department			
Trucks, Medium Duty	Ford F-350 SD	4,575	49,009
Vans < 10K GVWR Passanger/Cargo	Ford E250	3,613	38,698
Vans < 10K GVWR Passanger/Cargo	Ford E250	3,613	38,698
Total Facilities Department	3	\$ 11,801	\$ 126,405
Police Department			
SUV, Police Patrol	Ford Utility AWD	5,580	59,774
SUV, Police Patrol	Ford Utility AWD	5,750	61,595
SUV, Police Patrol	Ford Utility AWD	5,750	61,595
SUV, Police Patrol	Ford Utility AWD	5,750	61,595
SUV, Police Patrol	Ford Utility AWD	5,750	61,595
SUV, Police Patrol	Ford Utility AWD	5,750	61,595
Total Police Department	6	\$ 34,330	\$ 367,749
Fire Department			
Fire Response, Brush Trucks, Hazmat	Dodge Ram 5500	18,509	198,274
Fire Response, Brush Trucks, Hazmat	Dodge Ram 5500	18,509	198,274
Fire, Response, Ambulance	Dodge Ram 4500	19,500	212,945
SUV, Public Safety, Police, Fire	Ford Expedition	5,184	55,529
SUV, Public Safety, Police, Fire	Ford Expedition	5,184	55,529
Trucks, Light Duty	Ford F-150 SSV	5,184	55,529
Total Fire Department	6	\$ 72,070	\$ 776,080
Development Services Department			
SUV, General Purpose, Light Duty	Ford Escape XLS	2,725	\$ 29,191
Vehicle Additions; Trucks, Med Duty	Ford F-250	-	45,000
Total Development Services Department	2	\$ 2,725	\$ 74,191

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

2021 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 L90D	\$ 24,895	\$ 266,681
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	19,350	207,282
Trucks, Medium Duty	Ford F-350 SD	5,212	55,832
Trucks, Medium Duty	Ford F-350 SD	5,845	62,613
Trucks, Medium Duty	Ford F-350 SD	5,845	62,613
Trailers Medium, Light	Dun-Rite 2LT7M	873	9,352
Trailers Medium, Light	Ray-Tech Mini Combo	3,995	42,795
Vehicle Additions; Trucks, Light Duty	Ford F-150	-	33,000
Total Transportation Fund	8	\$ 66,015	\$ 740,168
Parks & Recreation Department			
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat 5600	5,835	63,111
Equipment, Off-Road, Loaders, Tractors, Graders	Kromer Field Comander	2,502	26,801
Trucks, Medium Duty	Ford F-350 SD	3,700	39,635
Total Parks & Recreation Department	3	\$ 12,037	\$ 129,547
Community Center Fund			
Vans < 10K Passenger/Cargo	Ford E-350 SD	3,485	37,332
Vans < 10K Passenger/Cargo	Ford E-350 SD	3,485	37,332
Total Community Center Fund	2	\$ 6,970	\$ 74,664
Castle Rock Water Department			
Equipment, Off-Road, Loaders, Tractors, Graders	Octane FY25	2,750	29,459
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	10,825	115,963
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 5600I	24,074	257,897
Trucks, Light Duty	Ford F-150 SSV	3,790	40,599
Trucks, Light Duty	Ford F-150 SSV	3,890	41,680
Vehicle Additions; Trucks, Medium Duty	Ford F-150	-	33,000
Vehicle Additions; Trucks, Medium Duty	Ford F-150	-	33,000
Vehicle Additions; Trucks, Medium Duty	Ford F-250	-	63,202
Total Castle Rock Water Department	8	\$ 45,329	\$ 614,800
Total - All Departments		\$ 254,277	\$ 2,935,735
3% Contingency			88,072
2021 Vehicle & Equipment Replacement Total	39	\$ 254,277	\$ 3,023,807

* 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			
Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Police Department			
Sedan, Patrol	Ford Utility AWD	\$ 5,750	\$ 63,751
Sedan, Patrol	Ford Utility AWD	5,950	65,969
Sedan General Purpose	Ford Utility AWD	4,679	51,871
SUV, Police Patrol	Ford Utility AWD	5,750	63,751
SUV, Police Patrol	Ford Utility AWD	5,950	65,969
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,679	51,871
Sedan, Patrol	Ford Utility AWD	5,750	63,751
Sedan, Patrol	Ford Utility AWD	5,750	63,751
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,679	51,871
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,679	51,871
SUV, Public Safety, Police, Fire	Ford Utility AWD	5,750	63,751
SUV, Police Patrol	Ford Utility AWD	5,750	63,751
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,679	51,871
Total Police Department	13	\$ 69,795	\$ 773,799
Fire Department			
Fire, Response, Ambulance	Ford F450	19,500	222,527
Fire, Response, Ambulance	Ford F450	19,500	222,527
SUV, Public Safety, Police, Fire, Batt Chief	Ford Expedition EL	7,250	80,382
SUV, Public Safety, Police, Fire, Batt Chief	Ford Expedition EL	6,532	72,482
Trailers Medium, Light	Bauer TCOM-25	12,402	137,498
Trucks, Light Duty	Ford F-150 SSV	5,184	57,473
Total Fire Department	6	\$ 70,368	\$ 792,889
Development Services Department			
SUV, General Purpose, Light Duty	Jeep Liberty	2,725	30,213
Total Development Services Department	1	\$ 2,725	\$ 30,213
Transportation Fund			
Heavy Equipment, Off-Road, Loaders, Tractors, Graders	John Deere 4720	6,400	70,952
Sweepers	Elgin NP Pelican	21,775	241,423
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	19,350	214,537
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7500	21,855	242,310
Trucks, Light Duty	Ford F-150	3,425	37,974
Trucks, Light Duty	Ford F-150	3,000	33,262
Trailers Heavy	Trail-Eze PDLX20TC30	5,452	60,442
Trailers Medium, Light	Big Tex 30SA	194	2,178
Total Transportation Fund	8	\$ 81,451	\$ 903,078

* 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 *
Parks & Recreation Department			
Equipment, Off-Road, Light duty, Mowers, Carts, Skid Steers, Plows	Scag Tiger Cat STC61V	\$ 980	\$ 10,865
Equipment, Off-Road, Light duty, Mowers, Carts, Skid Steers, Plows	John Deere HPX 4x4	1,075	11,919
Trailers Medium, Light	Vermeer BC1400XL	4,855	54,612
Total Parks & Recreation Department	3	\$ 6,910	\$ 77,396
Community Center Fund			
Vans < 10K GVWR Passenger/Cargo	Ford E-350 SD	3,485	38,639
Total Community Center Fund	1	\$ 3,485	\$ 38,639
Castle Rock Water Department			
Equipment, Off-Road, Loaders, Tractors, Graders	Wachs 77-000-36	7,513	83,292
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Caterpillar 930H	20,250	224,515
SUV, General Purpose, Light Duty	Jeep Liberty	3,205	35,537
SUV, General Purpose, Light Duty	Chevrolet Equinox	2,452	27,186
Trailers Medium, Light	Cornell 3HC-RP-EM16	8,375	92,855
Trucks, Light Duty	Ford F-150	3,059	33,917
Trucks, Light Duty	Ford F-150	3,034	33,640
Trucks, Medium Duty	Ford F-350 SD	4,699	52,093
Trailers Medium, Light	Big Tex 14X83	249	2,717
Total Castle Rock Water Department	9	\$ 52,836	\$ 585,752
Total - All Departments		\$ 287,570	\$ 3,201,766
3% Contingency			96,053
2022 Vehicle & Equipment Replacement Total	41	\$ 287,570	\$ 3,297,819

* 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	\$ 4,675	\$ 53,647
Total Facilities Department		1 \$ 4,675	\$ 53,647
Police Department			
SUV, Police Patrol	Ford Utility AWD	5,750	65,983
SUV, Police Patrol	Ford Utility AWD	5,750	65,983
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,679	53,687
SUV, Police Patrol	Ford Utility AWD	5,750	65,983
SUV, Police Patrol	Ford Utility AWD	5,750	65,983
SUV, Police Patrol	Ford Utility AWD	5,750	65,983
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,679	53,687
SUV, Police Patrol	Ford Utility AWD	5,750	65,983
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,679	53,687
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,679	53,687
Equipment, Off-Road, Loaders, Tractors, Graders	Polaris Ranger 800	2,101	24,113
Total Police Department		11 \$ 55,316	\$ 634,759
Fire Department			
Fire, Response, Ambulance	Ford F450	19,500	232,541
SUV, Public Safety, Police, Fire	Ford Expedition	5,184	59,484
Trucks, Medium Duty	Chevrolet Silverado 3500	5,184	59,484
Total Fire Department		3 \$ 29,867	\$ 351,509
Development Services			
SUV, General Purpose, Light Duty	Ford Escape SE	2,635	30,237
SUV, General Purpose, Light Duty	Chevrolet Equinox	2,635	30,237
SUV, General Purpose, Light Duty	Ford Escape SE	2,635	30,237
SUV, General Purpose, Light Duty	Ford Escape SE	2,635	30,237
SUV, General Purpose, Light Duty	Ford Escape SE	2,635	30,237
SUV, General Purpose, Light Duty	Ford Escape SE	2,635	30,237
Total Development Services Fund		6 \$ 15,810	\$ 181,422

* 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 (Continued)			
Department and Vehicle Use	Vehicle Make/Model	Estimated Salvage Value	Estimated Cost *
Transportation Fund			
Equipment, Off-Road, Loaders, Tractors, Graders	Miller Bobcat 250NT	\$ 567	\$ 6,508
Equipment, Off-Road, Loaders, Tractors, Graders	Sullair 260DPQ	2,523	28,947
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Caterpillar 143H	35,565	408,117
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Bobcat S570	4,125	47,335
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	19,350	222,046
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	19,350	222,046
Trucks, Light Duty	Ford F-150	2,750	31,557
Trucks, Light Duty	Ford F-150 SSV	2,885	33,106
Trucks, Medium Duty	Ford F-350 SD	5,845	67,073
Trucks, Medium Duty	Ford F-350 SD	5,845	67,073
Trucks, Medium Duty	Ford F-250 SD	3,985	45,729
Trucks, Medium Duty	Ford F-350 SD	5,445	62,483
Total Transportation Fund		12 \$ 108,235	\$ 1,242,020
Parks & Recreation Department			
Equipment, Off-Road, Light duty, Mowers, Carts, Skid Steers, Plows	Toro 4300-D	6,292	72,207
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat 5600	5,835	68,261
Equipment, Off-Road, Loaders, Tractors, Graders	Kubota RTV400CI-H	925	10,615
Equipment, Off-Road, Loaders, Tractors, Graders	Kubota RTV400CI-H	925	10,615
Trucks, Light Duty	Ford F-150	2,950	33,852
Trucks, Light Duty	Ford F-150	2,950	33,852
Trailers Medium, Light	Haulmark DLX Transport	901	10,535
Total Parks & Recreation Department		7 \$ 20,778	\$ 239,937
Castle Rock Water Department			
SUV, General Purpose, Light Duty	Ford Explorer	3,601	41,320
Trailers Medium, Light	Wacker LTC 4L	1,131	12,996
Trucks, Light Duty	Ford F-150	2,600	29,837
Trucks, Light Duty	Ford F-150	2,875	32,991
Trucks, Medium Duty	Chevrolet C-5500	9,550	109,588
Trucks, Medium Duty	Ford F-350 SD	6,175	70,860
Trailers Medium, Light	DW S1A	190	2,178
Total Castle Rock Water Department		7 \$ 26,122	\$ 299,770
Total - All Departments		\$ 260,804	\$ 3,003,064
3% Contingency			90,092
2023 Vehicle & Equipment Replacement Total		47 \$ 260,804	\$ 3,093,156

* 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	\$ 3,925	\$ 46,617
Total Facilities Department	1	\$ 3,925	\$ 46,617
Police Department			
SUV, Police Patrol	Ford Utility AWD	5,750	68,292
SUV, Police Patrol	Ford Utility AWD	5,750	68,292
SUV, Police Patrol	Ford Utility AWD	6,250	74,230
SUV, Police Patrol	Ford Utility AWD	5,750	68,292
SUV, Police Patrol	Ford Utility AWD	5,750	68,292
SUV, Police Patrol	Ford Utility AWD	5,750	68,292
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,679	55,566
SUV, Public Safety, Police, Fire	Ford Utility AWD	4,679	55,566
SUV, Public Safety, Police, Fire	Ford Escape	2,650	31,474
Total Police Department	9	\$ 47,008	\$ 558,296
Fire Department			
SUV, Public Safety, Police, Fire	Ford Utility Interceptor	4,500	53,446
SUV, Public Safety, Police, Fire	Ford Utility Interceptor	3,200	38,006
SUV, Public Safety, Police, Fire	Ford Utility Interceptor	3,200	38,006
Trailers Medium, Light	Atlas Inclosed Van	593	7,045
Total Fire Department	4	\$ 11,493	\$ 136,503
Development Services			
Trucks, Light Duty	Ford F-150	2,725	32,364
Trucks, Light Duty	Ford F-150	2,725	32,364
Trucks, Light Duty	Ford F-150	2,725	32,364
Trucks, Light Duty	Ford F-150	2,725	32,364
Total Development Services Fund	4	\$ 10,900	\$ 129,456
Transportation Fund			
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Volvo BL70B	9,313	110,603
Trucks, Light Duty	Ford F-150 SSV	2,885	34,265
Sweepers	Schwarze A7000	23,975	284,748
Trailers Medium, Light	Haulmark TS7X16D2	798	9,481
Total Transportation Fund	4	\$ 36,971	\$ 439,097

* 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 *
Parks & Recreation Department			
Trucks, Light Duty	Ford F-150	\$ 2,950	\$ 35,037
Trucks, Medium Duty	Ford F-250 SD	3,875	46,023
Equipment, Off-Road, Mowers, Carts, Skid Steers, Plows	Z-Master 5000	1,200	14,252
Equipment, Off-Road, Mowers, Carts, Skid Steers, Plows	Z-Master 5000	1,200	14,252
Equipment, Off-Road, Mowers, Carts, Skid Steers, Plows	Kohler Pro-EFI	980	11,639
Total Parks & Recreation Department	5	\$ 10,205	\$ 121,203
Golf Department			
Trucks, Light Duty	Chevrolet Colorado	2,600	30,881
Total Golf Department	1	\$ 2,600	\$ 30,881
Castle Rock Water Department			
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat S570	3,617	42,961
Equipment, Off-Road, Loaders, Tractors, Graders	Vermeer S800TX	2,872	34,108
Sedan General Purpose	Chevrolet Impala LS	2,551	30,316
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7500	41,500	492,890
Trucks, Light Duty	Ford F-150 SSV	3,500	41,569
Trucks, Light Duty	Ford F-150	2,715	32,246
Trucks, Light Duty	Ford F-150	2,600	30,881
Trucks, Light Duty	Ford F-150 SSV	3,206	38,071
Trucks, Light Duty	Ford F-150	3,275	38,897
Trucks, Light Duty	Ford F-150 SSV	3,165	37,590
Total Castle Rock Water Department	10	\$ 69,001	\$ 819,529
Total - All Departments		192,103	2,281,582
3% Contingency			68,447
2024 Vehicle & Equipment Replacement Total	38	\$ 192,103	\$ 2,350,029

* 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, Light Duty	Ford F-150	\$ 3,125	\$ 38,414
Trucks, Medium Duty	Ford F-350 SD	4,575	56,238
Trailers Medium Light	Bil-Jax ET5000	1,100	13,516
Total Facilities Department	3	\$ 8,800	\$ 108,168
Police Department			
SUV, Police Patrol	Ford Utility AWD	5,951	70,682
SUV, Police Patrol	Ford Utility AWD	6,158	73,141
SUV, Public Safety, Police, Fire	Ford Expedition XLT	5,750	70,682
SUV, Police Patrol	Ford Utility AWD	5,951	70,682
SUV, Police Patrol	Ford Utility AWD	5,951	70,682
SUV, Police Patrol	Ford Utility AWD	5,750	70,682
Trucks, Light Duty	Ford F-150 SSV	5,750	70,682
SUV, Police Patrol	Ford Utility AWD	5,750	70,682
Trailers Medium Light	Wells Cargo RF6101	406	4,845
SUV, Police Patrol	Ford Utility AWD	5,990	71,143
Total Police Department	10	\$ 53,407	\$ 643,903
Fire Department			
Fire, Response, Ambulance	Dodge Ram 4500	20,379	253,941
Trucks, Medium Duty	GMC Sierra 2500HD	6,200	76,214
Equipment, Off-Road, Loaders, Tractors, Graders	John Deere 855D Gator	2,245	27,597
Total Fire Department	3	\$ 28,824	\$ 357,752
Development Services Department			
SUV, General Purpose, Light Duty	Ford Escape SE	2,635	32,391
SUV, General Purpose, Light Duty	Ford Escape SE	2,635	32,391
Total Development Services Department	2	\$ 5,270	\$ 64,782

* 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 *
Transportation Fund			
Equipment, Off-Road, Loaders, Tractors, Graders	Caterpillar CB334D	\$ 9,775	\$ 120,160
SUV, General Purpose, Light Duty	Ford Escape	2,485	30,547
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	19,350	237,861
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400	19,350	237,861
Total Transportation Fund		4 \$ 50,960	\$ 626,429
Fleet Fund			
Sedan General Purpose	Ford Fusion-Hybrid	2,645	32,514
Total Fleet Fund		1 \$ 2,645	\$ 32,514
Parks & Recreation Department			
Equipment, Off-Road, Light Duty, Mowers, Carts, Skid Steers, Plows	Advance Exterra	4,400	54,086
Equipment, Off-Road, Loaders, Tractors, Graders	Honda TRX500	1,207	14,843
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat 5600	5,535	70,035
Equipment, Off-Road, Loaders, Tractors, Graders	Vermeer CTX100	4,100	50,399
Trucks Light Duty	Ford F-150	3,465	42,594
Trucks Medium Duty	Ford F-250 SD	3,875	47,634
Trucks Medium Duty	Ford F-350 SD	5,300	65,151
Trucks Medium Duty	Ford F-250 SD	4,785	58,820
Trucks Medium Duty	Ford F-250 SD	4,785	58,820
Equipment, Off-Road, Light Duty, Mowers, Carts, Skid Steers, Plows	Z-Master 5000	1,220	14,997
Total Parks & Recreation Department		10 \$ 38,672	\$ 477,379
Castle Rock Water Department			
Trucks, Light Duty	Ford F-150 CC	2,852	35,065
Trucks, Light Duty	Ford F-150	3,307	40,651
Trucks, Light Duty	Ford F-150	2,775	34,112
Trucks, Light Duty	Chevrolet Colorado	2,600	31,962
Trucks, Light Duty	Ford F-150	3,200	39,336
Trucks, Light Duty	Ford F-150	3,500	43,024
Trucks, Medium Duty	Ford F-250 SD	3,900	47,941
Trucks, Medium Duty	Ford F-250 SD	3,900	47,941
Trucks, Medium Duty	Ford F-150	3,400	41,795
Trailers Medium Light	Carry-On 5X8G	107	1,312
Total Castle Rock Water Department		10 \$ 29,541	\$ 363,139
Total - All Departments		\$ 218,119	\$ 2,674,066
3% Contingency			80,222
2025 Vehicle & Equipment Replacement Total		43 \$ 218,119	\$ 2,754,288

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

2021-2025 CAPITAL IMPROVEMENT PROGRAM

GOLF FUND

PARKS & RECREATION DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Red Hawk Ridge Maintenance Equipment	\$ -	\$ 515,695	\$ 112,496	\$ -	\$ -	\$ 628,191
Red Hawk Ridge Golf Carts	-	-	438,185	-	-	438,185
Clubhouse Upgrades	-	-	-	46,491	-	46,491
Total Expenditures by Year	\$ -	\$ 515,695	\$ 550,681	\$ 46,491	\$ -	\$ 1,112,867

Project Funding Sources	2021	2022	2023	2024	2025	Total
Charges For Service	\$ -	\$ 515,695	\$ 550,681	\$ 46,491	\$ -	\$ 1,112,867
Total Funding Sources by Year	\$ -	\$ 515,695	\$ 550,681	\$ 46,491	\$ -	\$ 1,112,867

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.



Hole #13 at Red Hawk Golf Course

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Red Hawk Ridge Maintenance Equipment

Project Number: 70-30			
Contact: Bob Persichetti, Head Golf Professional		5 Year Historical Total	\$ 153,483
Department: Golf		2021-2025 Total	628,191
Category: Equipment		CIP Project Total (2016-2025):	\$ 781,674
Useful Life: 5-10 Years			

Description and Justification

The typical lifespan for golf course maintenance equipment used on a regular basis is approximately five years. Some less frequently used equipment can last more than 10 years. Since golf course conditions are typically the most important factor for most golfers, having reliable equipment that produces a quality product is critical for the long-term health of the Golf Course Fund. Having reliable maintenance equipment also allows staff to provide a consistent product with minimal risk of failure and/or catastrophic turf damage. Staff will continue to perform necessary preventative maintenance to extend the life of the equipment as long as possible/feasible and will adjust replacement schedules accordingly.

2022 - Mowers that are planned for replacement in 2022 are budgeted as a lease/purchase. Payments are planned to occur over a five-year period and will result in the golf course owning the equipment upon completion of the payment period. Irrigation system updates are planned to be purchased in 2022. Amounts and potential financing needs will be evaluated in the future as maintenance equipment nears the end of its useful life.

2023 - Carryall utility tractors are planned to be purchased in 2023.

Expenditures	2021	2022	2023	2024	2025	Total
Equipment	\$ -	\$ 515,695	\$ 112,496	\$ -	\$ -	\$ 628,191
Total Expenditures	\$ -	\$ 515,695	\$ 112,496	\$ -	\$ -	\$ 628,191

Funding Sources	2021	2022	2023	2024	2025	Total
Charges for Service	\$ -	\$ 515,695	\$ 112,496	\$ -	\$ -	\$ 628,191
Total Funding Sources	\$ -	\$ 515,695	\$ 112,496	\$ -	\$ -	\$ 628,191

Operational Impact

No additional operational impact is expected as ongoing equipment maintenance is in the current budget.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Red Hawk Ridge Golf Carts

Project Number:	70-30			
Contact:	Bob Persichetti, Head Golf Professional	5 Year Historical Total	\$	724,377
Department:	Golf	2021-2025 Total		438,185
Category:	Equipment	CIP Project Total (2016-2025):	\$	1,162,562
Useful Life:	4 years			

Description and Justification

The existing cart fleet at Red Hawk Ridge is in its first year of service of the four year lease. In time the fleet will show signs of wear and tear due to ongoing demands. 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	2021	2022	2023	2024	2025	Total
Equipment	\$ -	\$ -	\$ 438,185	\$ -	\$ -	\$ 438,185
Total Expenditures	\$ -	\$ -	\$ 438,185	\$ -	\$ -	\$ 438,185

Funding Sources	2021	2022	2023	2024	2025	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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Clubhouse Upgrades

Project Number: 70-20			
Contact: Bob Persichetti, Head Golf Professional		5 Year Historical Total	\$ 150,775
Department: Golf		2021-2025 Total	46,491
Category: Equipment		CIP Project Total (2016-2025):	\$ 197,266
Useful Life: 10+ Years			

Description and Justification

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

Expenditures	2021	2022	2023	2024	2025	Total
Restaurant Furniture/Equipment	\$ -	\$ -	\$ -	\$ 46,491	\$ -	\$ 46,491
Total Expenditures	\$ -	\$ -	\$ -	\$ 46,491	\$ -	\$ 46,491

Funding Sources	2021	2022	2023	2024	2025	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.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

COMMUNITY CENTER FUND

PARKS & RECREATION DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2021	2022	2023	2024	2025	Total
Fitness Equipment Replacement	\$ 175,000	\$ 350,000	\$ -	\$ -	\$ 80,000	\$ 605,000
Parking Lot Improvement	225,000	-	-	-	-	225,000
Recreation Center HVAC	-	-	150,000	310,000	-	460,000
Miller Activity Complex Boiler	-	-	-	-	115,000	115,000
Total Expenditures by Year	\$ 400,000	\$ 350,000	\$ 150,000	\$ 310,000	\$ 195,000	\$ 1,405,000

Project Funding Sources	2021	2022	2023	2024	2025	Total
Sales Tax	\$ 400,000	\$ 350,000	\$ 150,000	\$ 310,000	\$ 195,000	\$ 1,405,000
Total Funding Sources by Year	\$ 400,000	\$ 350,000	\$ 150,000	\$ 310,000	\$ 195,000	\$ 1,405,000

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.



Millhouse at Philip S. Miller Park

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Parking Lot Improvement

Project Number: 70-10

Contact: Mike Kilman, Recreation Manager

Department: Parks & Recreation Department

Category: Building

Useful Life: 5 - 10 Years

5 Year Historical Total \$ -

2021-2025 Total 225,000

CIP Project Total (2016-2025): \$ 225,000

Description and Justification

The parking lot located at the Castle Rock Recreation Center requires regular upkeep. Continual repair of parking lot surfaces ensures a better experience for users and reduces the possibility of significant failures in the parking lot in the future. Planned expenditures accommodate an overlay process and replacement as needed. This item was originally requested for the 2020 budget, but due to economic conditions it was delayed to 2021.

Expenditures	2021	2022	2023	2024	2025	Total
Recreation Center Parking Lot	\$ 225,000	\$ -	\$ -	\$ -	\$ -	\$ 225,000
Total Expenditures	\$ 225,000	\$ -	\$ -	\$ -	\$ -	\$ 225,000

Funding Sources	2021	2022	2023	2024	2025	Total
Sales Tax	\$ 225,000	\$ -	\$ -	\$ -	\$ -	\$ 225,000
Total Funding Sources	\$ 225,000	\$ -	\$ -	\$ -	\$ -	\$ 225,000

Operational Impact

No additional revenues or expenditures are anticipated as a result of this project. Long term savings may be realized by undergoing this proactive repair to parking lots, but amounts are not quantifiable at this time.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Recreation Center HVAC

Project Number: 70-30

Contact: Mike Kilman, Recreation Manager

Department: Parks & Recreation Department

Category: Equipment

Useful Life: 20 Years

5 Year Historical Total \$ 1,579,278

2021-2025 Total 460,000

CIP Project Total (2016-2025): \$ 2,039,278

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.

Expenditures	2021	2022	2023	2024	2025	Total
Recreation Center RTU HVAC units	\$ -	\$ -	\$ -	\$ 160,000	\$ -	\$ 160,000
Recreation Lap Pool DHU	-	-	100,000	150,000	-	250,000
Recreation MUA unit	-	-	50,000	-	-	50,000
Total Expenditures	\$ -	\$ -	\$ 150,000	\$ 310,000	\$ -	\$ 460,000

Funding Sources	2021	2022	2023	2024	2025	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 budget requests.

2021-2025 CAPITAL IMPROVEMENT PROGRAM

Project Name

Miller Activity Complex Boiler

Project Number: 70-30

Contact: Mike Kilman, Recreation Manager

Department: Parks & Recreation Department

Category: Equipment

Useful Life: 20 Years

5 Year Historical Total \$ 1,579,278

2021-2025 Total 115,000

CIP Project Total (2016-2025): \$ 1,694,278

Description and Justification

All pool facilities 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 would force the pool to be closed for over a month and result in revenue losses over \$40,000. The new backup boiler will allow the pool to continue to operate while maintenance and repairs are being done on the main boiler.

Expenditures	2021	2022	2023	2024	2025	Total
MAC Backup Boiler	\$ -	\$ -	\$ -	\$ -	\$ 115,000	\$ 115,000
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ 115,000	\$ 115,000

Funding Sources	2021	2022	2023	2024	2025	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.