## 2021-2026 CAPITAL IMPROVEMENT PROGRAM



RECOMMENDED

Service Excellence for an Inspired Future.

## **Capital Improvement Program**

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### **Capital Improvement Program**

The City of Boulder's 2021-2026 Capital Improvement Program (CIP) contains information on how the city plans to invest available resources into key infrastructure and facilities between 2021 and 2026. The 2021-2026 CIP provides the funding plan (amount needed by year) for each CIP project in the document's summary sections and in each project sheet. This section contains: planned project funding summaries organized by department, project type, and fund; links to maps and detail project sheets illustrating the location of projects throughout the city; and narratives describing the rationale behind project prioritization. The 2021-2026 CIP has four main parts:

### Introduction

Provides an overview of the 2021-2026 CIP including process and highlights.

### **Funding Summaries**

Contains analysis of how the 2021-2026 CIP allocates dollars among city departments, project types, and funds.

### **Capital Project Overviews**

Contains highlights of each department's focus, operating and maintenance impacts, unfunded projects, CEAP projects, board action, 2021-2026 CIP, and a link to that department's project sheets.

### **CEAP (Community & Environmental Assessment Process)**

Contains a list of individual projects identified in the annual CIP process that will complete a CEAP.

### **Capital Improvement Program**

The funding tables (includes tables in the Funding Summaries section, as well as tables in the Capital Project Overviews section) show the six-year Estimated Total Cost for each project, which includes total approved budget for 2021, and the estimated cost for each year between 2021 through 2026.

	Esti	mated Total Cost	Д	2020 Approved	2021 Projected	Р	2022 Projected	2023 Projected	F	2024 Projected	2025 Project	
Capital Program Total	\$	18,113,400	\$	4,390,000	\$ 2,810,600	\$	1,932,800 \$	7,180,000	\$	1,500,000	\$ 30	00,000
CIP-Capital Enhancement Total	\$	550,000	\$	550,000	\$ -	\$	- \$	-	\$	÷	\$	-
						•	•		•		•	
Enterprise CRM General Fund CIP. Replacement of current CRM system, Inc or the new CRM system to our Website Redesign RFP, whice s an enterprise-level tool.			t syste		deficiencies and ha		ave CRM function	nce its release i ality native to th	neir pro		requiremen	
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Funding tables in the Capital Project Overviews section list projects by the following types:

- 1. Capital Enhancement,
- 2. Capital Maintenance,
- 3. Capital Planning Studies,
- 4. Land Acquisition, or
- 5. New Facility/Infrastructure.

	Est	mated Total Cost		2020 Approved		2021 Projected		2022 Projected		2023 Projected		2024 Projected	F	2025 Projected
Capital Program Total		18,113,400	-	4.390.000	4	2.810.600	4	1,932,800	41	7.180.000		1.500.000	¢	300.00
CIP-Capital Enhancement Total	\$	550,000		550,000	\$		\$	1,332,000	\$		\$	-	-	000,00
Enterprise CRM	\$	300,000	\$	300,000	\$		\$	-	\$		\$	-	\$	
General Fund CIP. Replacement of curre <mark>,</mark> t CRM system, for the new CRM system to our Website Redesign RFP, w s an enterprise-level tool.								have CRM functi	iona		eir p			
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exists in, and whether it is compatible with data collected in another department. Having a citywide centralized system will allow departments to integrate data from multiple sources and applications into one location. A data warehouse would improve data quality and consistency throughout the City. This initial phase of the project is funding for consulting and cloud hosting services. An increase in the CRF of \$30,000/year has already been built into the FY2020 rates for continued support of this solution.

CIP-Capital Maintenance Total		\$	10,063,400	\$	2,340,000	1,310,6	00 \$	432,800	\$	5,680,000 \$	-	\$	300,000
Data Backup and Disaster Recover,		\$	140,000	\$	- 9	5	- \$	140,0 <mark>0</mark> 0	\$	- \$	-	\$	-
The project reflects the hardware, softwa.	and support needed to	o ensur	e reliable high	spe	ed backup of file	s, databases	and app	lications stored	on t	he city's enterprise servers	and d	ata sto	rage sub-

The project reflects the hardware, softwa and support needed to ensure reliable high speed backup of files, databases and applications stored on the city's enterprise servers and data storage subsystems. Note that these systems are required not only for disaster preparedness and recovery purposes, but to meet legal records retention requirements. [This page intentionally left blank]

## INTRODUCTION

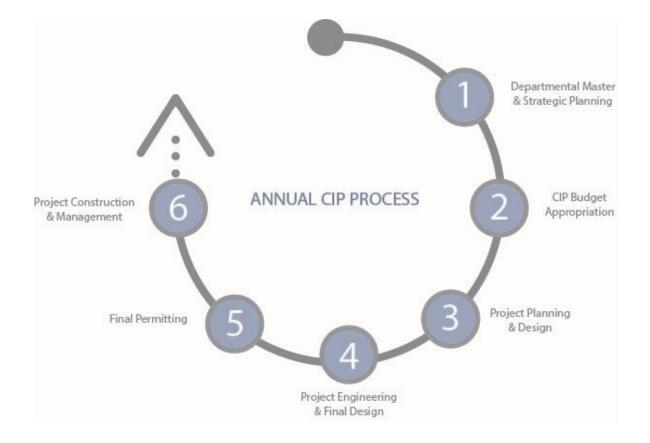
The City of Boulder's Capital Improvement Program (CIP) is a comprehensive, six-year plan for capital investment in maintaining and enhancing public infrastructure. The CIP provides a forecast of funds available for capital projects and identifies all planned capital improvement projects and their estimated costs over the six-year period. A community's CIP is a guide that lays out the framework for achieving the current and future goals related to the physical assets of the community.

Boulder invests in facilities and infrastructure and provides a high-level of municipal services. The city owns and maintains 385 buildings and structures (including three recreation centers, five library facilities, eight fire stations, and five parking structures), 1,800 acres of parkland, 71.2 acres of Open Space & Mountain Parks, 305 centerline miles of streets, 159 centerline miles of bike facilities, 80 underpasses, two water treatment facilities, one wastewater treatment facility, 11 dams, and over 800 miles of water and wastewater piping.

The city funds the construction and maintenance of these assets using a wide range of sources, including tax revenues, bond proceeds, and fees and continues to look for ways to leverage its funding, through federal, state, and local grants and reimbursements, to maximize funding for CIP projects.

The CIP development process prioritizes the city's numerous needs across multiple departments and services with attention to the limits of each funding source, progress on ongoing CIP projects, funding commitments made by prior CIPs, and ongoing work.





### How Boulder Plans for Capital Improvements

The Capital Improvement Program is one component of the city's planning and review of capital projects. These phases represent a continuous process of planning, funding, and implementation (see graphic on previous page).

Phase 1: Departmental Master or Strategic Planning

- Guided by the Boulder Valley Comprehensive Plan (BVCP) and the Sustainability + Resilience Framework, departmental master plans establish detailed policies, priorities, facility and system needs, and funding plans.
- Most master/strategic plans involve significant public participation and often result in CIP projects.
- Plans are reviewed by advisory boards/commissions and the Planning Board, and are accepted by City Council.

Phase 2: Capital Improvement Program (CIP) and Budget Appropriation

- The CIP project prioritization is guided by departmental, sub-community, and area plans.
- The CIP forecasts available funds for capital projects and identifies all planned projects and estimated costs over a six-year period.
- First year's CIP program is adopted by City Council as a counterpart to the operating budget.

Phase 3: Project Planning and Design

- Evaluates a full range of project alternatives and resulting impacts (not system-wide alternatives).
- Identifies an appropriate review process, including the Community and Environmental Assessment Process (CEAP), or a Concept Plan and Site Plan review. CEAPs are reviewed by department advisory boards/ commissions, the Planning Board, and finally, City Council.
- Includes appropriate community engagement in design alternatives.
- Identifies if a project qualifies for public art.

Phase 4: Project Engineering and Final Design

 Some projects require Technical Document Review and are reviewed internally through the Development Review Committee.

Phase 5: Final Permitting

• Some projects require building, flood, stormwater discharge, or right-of-way permits.

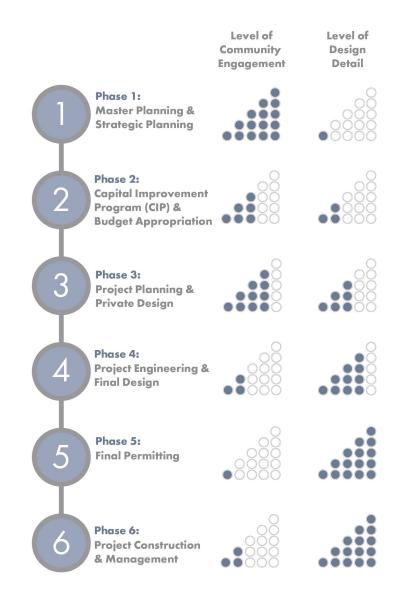
Phase 6: Project Construction and Management

- Projects requiring building, right-of-way, or wetlands permitting also require construction and postconstruction follow-up.
- Once construction is complete, the project is closed out and becomes a city asset.

### **Opportunities for Community Influence**

The graphic on this page shows the general steps in Boulder's planning process, along with the general expectations for community engagement and the level of detail in construction plans. Master plans include a robust community engagement process that ultimately results in conceptual CIP projects. These conceptual projects are then scheduled into the six-year CIP, with some design work and financing completed as they approach the budget funding cycle. Additional engagement often happens in Phase 3, especially when there are numerous alternatives to consider. Community engagement during final permitting and construction is limited to informing community members about impacts to their daily lives.

City Council, advisory boards/commissions, community members, and others have the highest amount of influence during the master planning process and in the scheduling of years two through six of the CIP.



### **Current & Upcoming Master Plans**

Several departmental master plan updates are underway (or will soon begin) and will inform future capital planning. These include:

- Flood and Stormwater Utility (2022)
- Facilities (2021)
- Police (2022)
- Parks & Recreation (2021)

### 2021-2026 Capital Improvement Program

The 2021-2026 CIP is impacted by the economic crisis caused by COVID-19. With goals of flattening the curve and protecting lives, city facility closures began March 13, 2020 and state and local stay-at-home and saferat-home orders followed. This caused a shock to many of the city's revenue sources including sales and use tax, accommodations tax, admissions tax, licenses, permits, fees and charges for services including recreation fees and parking fees. In fact, staff has seen nearly 70% or revenue sources impacted. University of Colorado economists predict the recession will last three to five years before some city revenue sources recover to pre-COVID levels.

The 2021-2026 CIP includes \$675 million. This includes discrete projects as well as categories of funding for ongoing needs (e.g. local drainage improvements, major trail maintenance).

The city is spending the majority, about 82%, of its 2021-2026 capital funds on capital maintenance and enhancement of its existing assets. The CIP focuses on taking care of what the city already owns with an emphasis on making improvements to its core service areas. Capital enhancements involve upgrades to existing facilities that may include upgraded technologies, materials, and equipment that can be more efficient, effective and less costly to operate over time.

With that revenue picture, the proposed 2021-2026 CIP has just under \$81 million recommended for 2021, and approximately \$675 million is recommended for project allocations for years 2021-2026. The 2021 proposed CIP is lower than anticipated at this time last year as several projects shifted to out years and is lower than the 2020 Approved CIP (\$85.6 million). It is important to remember that, unlike an operating budget, the capital budget may significantly fluctuate between years due to timing of projects and availability of funding. Several large 2021 capital projects include:

- Interceptor Sewer Realignment \$3.6M
- Pavement Management Program \$4.8 million
- Broadband Fiber Backbone \$12M
- Ongoing repairs to Barker Gravity Pipeline \$3.8M
- General Parks Improvements \$900K

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# **FUNDING SUMMARIES**

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### **Overview of Funding Summaries**

The Funding Summaries section provides full detail of the city's CIP budget needs from 2021 through 2026 by department, project type, and fund. For each of the three funding views, the following information is shown:

- Total project cost for 2021 through 2026
- Planned funding allocation in each year 2021-2026 and the six-year total
- Prior funded amount

The Funding Summaries focus on estimated budget needs for all projects. In practice, as projects are planned, designed, and constructed, during any given year, appropriated project sources almost always differ from project expenditures. In some circumstances, such as a large project that requires many years of accumulated funds before design or construction can commence, expenditures may significantly lag appropriations.

All tables and graphs in this section include transfers between departments. These transfers are included in the departments because they will appear in the individual department sections of the overall city budget.



### **Funding by Department**

The Public Works Utilities and Transportation divisions have the greatest allocations of resources in the 2021-2026 CIP.

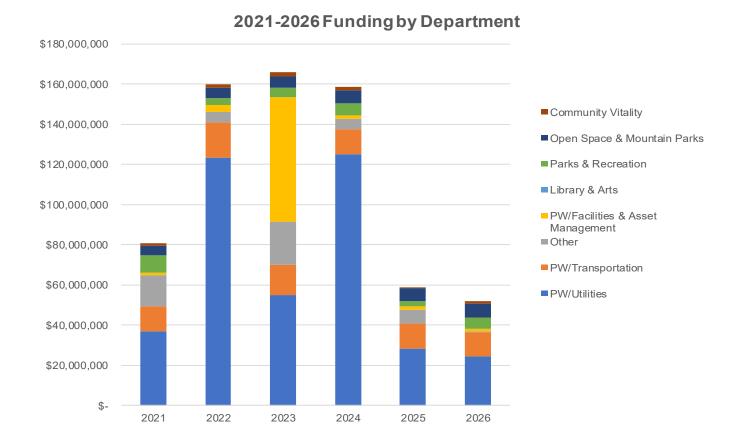
Many departments have dedicated revenue sources that keep their CIP funding relatively constant. For example, both Open Space & Mountain Parks and Parks & Recreation have dedicated revenue sources, and their CIP funding remains relatively constant.

During the renewal of the community, culture, and safety tax and the 2018 Budget process, discussions with Council highlighted that the General Fund CIP has been limited, generally to Facilities & Asset Managementrelated projects, and supplemented through voter-approved capital funding initiatives. With many unfunded capital projects residing in the General Fund, the 2018 Budget, for the first time, included \$3.65 million to begin phase one of a formal Capital Improvement Program for the General Fund.

The chart on the following page displays the share of total 2021 2026 CIP spending by each department.

The following city departments are participating in the 2021-2026 CIP:

- Citywide
- Community Vitality
- Facilities & Asset Management
- Fire-Rescue
- Innovation & Technology
- Library & Arts
- Open Space & Mountain Parks
- Parks & Recreation
- Police
- Transportation
- Utilities & Greenways



#### 2021-2026 FUNDING SUMMARY BY DEPARTMENT

	Es	timated Total		2021		2022	2023	2024	2025	2026
		Cost	Re	commended		Projected	Projected	Projected	Projected	Projected
Citywide	\$	20,440,544	\$	1,440,704	\$	4,339,440	\$ 4,886,800	\$ 4,886,800	\$ 4,886,800	\$ -
Community Vitality		8,900,000		1,240,000		1,805,000	1,975,000	1,870,000	500,000	1,510,000
Fire-Rescue		10,491,560		-		-	10,491,560	-	-	-
Innovation & Technology		23,228,400		13,860,600		682,800	5,930,000	575,000	1,855,000	325,000
Library & Arts		100,000		100,000		-	-	-	-	-
Open Space & Mountain Parks		34,818,485		4,466,705		5,139,780	5,928,000	6,178,000	6,428,000	6,678,000
Parks & Recreation		30,974,500		8,540,000		3,478,000	4,710,000	6,157,000	2,606,500	5,483,000
Police		80,000		80,000		-	-	-	-	-
PW/Facilities & Asset Management		71,373,046		1,578,841		3,178,841	61,798,841	1,578,841	1,658,841	1,578,841
PW/Stormwater & Flood Utility		139,075,927		9,285,391		14,345,078	7,272,982	96,672,471	4,806,821	6,693,185
PW/Transportation		82,353,396		12,263,869		17,638,444	15,392,000	12,433,333	12,542,250	12,083,500
PW/Wastewater Utility		117,354,642		14,694,831		55,245,894	28,923,000	5,690,918	5,860,000	6,940,000
PW/Water Utility		136,374,590		12,988,913		53,892,825	18,589,883	22,549,930	17,661,716	10,691,324
TOTAL	\$	675,565,091	\$	80,539,854	1	59,746,101	\$ 165,898,065	\$ 158,592,294	\$ 58,805,928	\$ 51,982,850

### Funding by Project Type

Each CIP project has been classified as a city investment in one of five project types: Capital Enhancement, Capital Maintenance, Capital Planning Studies, Land Acquisition, and New Facility/Infrastructure.

The five project types are defined by the following criteria:

#### 1. Capital Enhancement

- Construction results in the expansion or significant improvement of an existing facility or asset.
- Projects have a discrete start and end date.
- Projects are location specific.
- Projects are typically over \$100,000 in total project cost, but do not have to be. Innovation & Technology
  projects are typically over \$50,000 in total project cost.
- Projects result in a durable, long lasting asset, with a useful life of at least 15 years. Innovation & Technology projects may be as short as five years.
- Projects may qualify for a percent for art allocation.

#### 2. Capital Maintenance

- Project results in the repair, replacement, or renovation of an existing asset.
- Projects may or may not have a discrete start and end date.
- Projects are location specific or programs that cover a geographic area.
- Projects are typically over \$100,000 in total project cost. Innovation & Technology projects are typically over \$50,000 in total project cost.

#### **3. Capital Planning Studies**

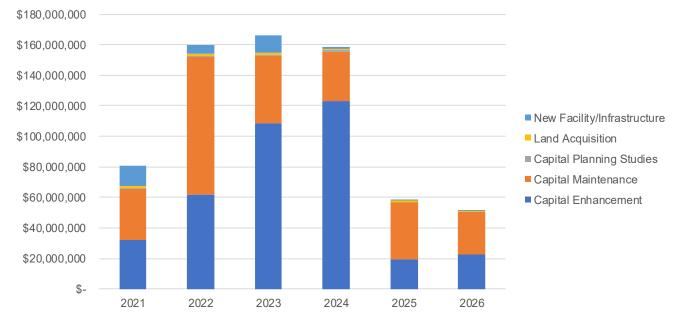
- Project results in the development of a study or plan which is intended to identify, plan, or prepare for the construction or acquisition of capital assets or a capital program.
- Projects have a discrete start and end date.
- Projects are typically for studies that are over \$100,000 in total cost.

#### 4. Land Acquisition

- Project or program results in the acquisition of real property, such as land, mineral or water rights, or permanent easements.
- Projects may have discrete start and end dates, or may be programmatic.
- Projects or programs may be location specific or citywide.
- Projects or programs typically include acquisitions totaling over \$100,000.

#### 5. New Facility/Infrastructure

- Project results in the construction or acquisition of a new asset.
- Construction results in additional square footage of an existing asset.
- Projects have a discrete start and end date.
- Projects are location specific.
- Projects are typically over \$100,000 in total project cost, but do not have to be.
- Projects result in a durable, long lasting asset, with a useful life of at least 15 years.
- Projects may qualify for a percent for art allocation.



### 2021-2026 Funding by Project Type

#### 2021-2026 FUNDING SUMMARY BY TYPE

	Es	stimated Total Cost	Re	2021 commended	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected
CIP-CAPITAL ENHANCEMENT	\$	366,996,101	\$	31,903,801	\$ 61,607,038	\$ 108,401,984	\$ 123,389,142	\$ 19,240,061	\$ 22,454,076
CIP-CAPITAL MAINTENANCE		266,413,494		33,656,064	90,851,704	44,589,048	32,105,092	37,490,351	27,721,237
CIP-CAPITAL PLANNING STUDIES		3,308,333		705,000	420,000	530,000	1,353,333	300,000	-
CIP-LAND ACQUISITION		6,140,603		1,324,989	1,352,360	1,060,474	769,727	800,516	832,537
CIP-NEW FACILITY/INFRASTRUCTUR		32,706,560		12,950,000	5,515,000	11,316,560	975,000	975,000	975,000
Total	\$	675,565,091	\$	80,539,854	\$ 159,746,101	\$ 165,898,065	\$ 158,592,294	\$ 58,805,928	\$ 51,982,850

### **Funding by Fund**

Detailed descriptions of all of the city's funds are available in the introduction section of the 2020 Approved Budget. Many of the funds exist to handle dedicated revenues that can only be used for specific types of capital projects. These restrictions provide consistency in planning for project types, but also require the city to allocate resources to a specific category of infrastructure and maintain existing priorities. The Greenways Program is not a fund as defined above, but is used within the CIP to illustrate the funding structure of the Public Works - Greenways workgroup, and to call out the CIP projects associated with the work of Greenways.

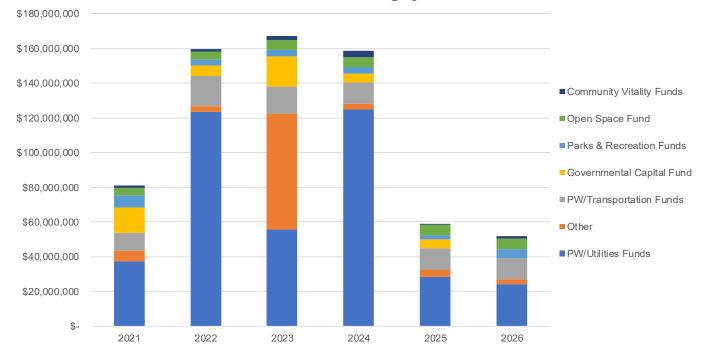
The following funds qualify for a percent for art allocation: 0.25 Cent Sales Tax Fund, Facility Renovation & Replacement Fund, Governmental Capital/General Fund, Permanent Park & Recreation Fund, Transportation Fund, and Transportation Development Fund.

Similar to the department distributions described earlier in this section, the Transportation and Utility Funds are the largest contributors to the city's 2021-2026 CIP.

The following chart shows the distribution of six-year funding by fund.

The CIP projects are funded through the following 21 sources.

- .25 Cent Sales Tax Fund (for Parks & Recreation)
- Airport Fund
- Boulder Junction GID Parking
- Capital Development Fund
- Community, Culture, & Safety Tax Fund
- Computer Replacement Fund
- Downtown Commercial District Fund
- Equipment Replacement Fund
- Facility Renovation & Replacement Fund
- Fleet Fund
- Governmental Capital Fund (tied to General Fund)
- Lottery Fund
- Open Space Fund
- Permanent Park & Recreation Fund
- Planning & Development Services Fund
- Stormwater & Flood Management Utility Fund
- Transportation Fund
- Transportation Development Fund
- University Hill Commercial District Fund
- Wastewater Utility Fund
- Water Utility Fund



2021-2026 Funding by Fund

#### 2021-2026 FUNDING SUMMARY BY FUND

	Estimated Total	2021	2022 Decision de	2023	2024 Decision de cl	2025 Director d	2026 Discissional
	Cost	Recommended	Projected	Projected	Projected	Projected	Projected
.25 Cent Sales Tax	\$ 8,037,000	\$ 2,165,000	\$ 1,750,000	\$ 1,022,000		\$ 600,000	\$ 1,500,000
Airport	333,333	-	-	-	333,333	-	-
Bldr Junction GID- Parking	2,100,000	-	-	210,000	1,890,000	-	-
Boulder Junction Capital Improvement	400,000	-	100,000	100,000	100,000	-	100,000
Capital Development	2,855,958	1,000,000	-	1,855,958	-	-	-
Community, Culture, and Safety Tax	6,225,199	2,552,000	434,000	3,239,199	-	-	-
Computer Replacement	4,745,872	1,278,072	432,800	580,000	575,000	1,555,000	325,000
Downtown Commercial District	8,350,000	1,090,000	1,705,000	1,875,000	1,770,000	500,000	1,410,000
Equipment Replacement	-	-	-	-	-	-	-
Facility Renovation & Replacement	69,380,788	1,186,583	1,578,841	61,798,841	1,578,841	1,658,841	1,578,841
General	100,000	100,000	-	-	-	-	-
Governmental Capital	45,494,205	13,597,962	6,189,440	15,633,203	4,886,800	5,186,800	-
Lottery	6,042,402	1,007,067	1,007,067	1,007,067	1,007,067	1,007,067	1,007,067
Open Space	32,250,485	4,038,705	4,711,780	5,500,000	5,750,000	6,000,000	6,250,000
Permanent Parks & Recreation	17,269,500	4,947,000	1,300,000	3,050,000	2,839,000	1,578,500	3,555,000
Planning and Development Services	19,099	19,099	-	-	-	-	-
Stormwater & Flood Management Utility	138,169,525	9,134,324	14,194,011	7,121,915	96,521,404	4,655,754	6,542,118
Transportation	70,312,492	9,790,298	11,654,444	14,542,000	11,300,000	11,742,250	11,283,500
Transportation Development	9,600,000	800,000	5,550,000	850,000	800,000	800,000	800,000
University Hill Comm District	150,000	150,000	-	-	-	-	-
Wastewater Utility	117,354,642	14,694,831	55,245,893	28,923,000	5,690,918	5,860,000	6,940,000
Water Utility	137,624,590	13,238,913	53,892,825	19,589,883	22,549,930	17,661,716	10,691,324
Tota	\$ 676,815,091	\$ 80,789,854	\$ 159,746,100	\$ 166,898,065	\$ 158,592,294	\$ 58,805,928	\$ 51,982,850

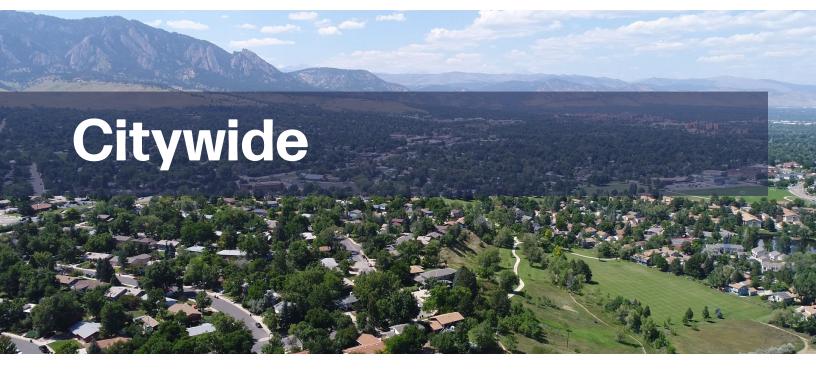
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## **DEPARTMENT OVERVIEWS**

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Library & Arts	
Open Space & Mountain Parks	51
Parks & Recreation	
Police	67
Transportation	69
Utilities & Greenways	75



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### Current Focus for Capital Planning & Projects in the 2021 Capital Budget

The goals of the General Fund CIP are to provide a sustainable funding source for essential capital needs; improve resiliency of essential services; and save the city money in the long run by not deferring necessary improvements. Many General Fund CIP projects are found within the corresponding departments. However, there are several projects in 2021 that are true citywide projects and do not have an associated department focus. Projects in 2021 include:

**Continuing payment support for Hogan Pancost** - The Hogan Pancost property is a 22.2-acre parcel in area II contiguous to South East Boulder (see image on next page). After several attempts by developers to annex and develop the property, council decided that it would be in the best interest of the community for the city to purchase the land. Having control of the property will allow for a pause to consider the most appropriate uses. It will remove the incentive to maximize the return on investment. It will also allow time to consider the effects of the South Boulder Creek flood mitigation study and guarantee that the neighboring community has a voice in what ultimately happens on the property.

Additionally, citywide projects include Nonprofit Support outlined within the 2017 community, culture, and safety tax approved by voters. Projects in 2021 include:

- Renovation of the Boulder Museum of Contemporary Art (BMoCA);
- Improve facilities at Resource Central to expand recycling and reuse efforts.

### **Operating & Maintenance Impacts**

Operating costs will be included as appropriate.

### **Unfunded Projects & Emerging Needs**

Many of the city's unfunded needs reside in the General Fund and include facility backlogs, emerging technology needs, and large, unfunded facility replacements. The goal of this funding source is to address the backlog, critical infrastructure, and technology needs while also recognizing that additional funding sources will be needed to accomplish larger, high-dollar projects such as new facilities.

### **Citywide Capital**

**CEAP** Projects

N/A

#### **Board Action**

N/A





### 2021-2026 Capital Improvement Plan

	Est	imated Total		2021	2022		2023		2024		2025		2026
		Cost	Reco	mmended	Projected		Projected		Projected		Projected	Р	rojected
Capital Program Total	\$	20,440,544	\$	1,440,704	\$ 4,339,440	\$	4,886,800	\$	4,886,800	\$	4,886,800	\$	
CIP-Capital Enhancement Total	\$	12,800,000	\$	800,000	\$ 3,000,000	\$	3,000,000	\$	3,000,000	\$	3,000,000	\$	
CCS Agreements - BMOCA	\$	500,000	\$	500,000	\$ -	\$	-	\$	-	\$	-	\$	
ocation: 1750 13th St													
CCS Agreements - Resource Central	sary for the orga \$	nization to su 300,000		s current leve 300,000	•	orovi \$		ervic \$		mun \$		\$	
BMoCA will renovate the current facility, which is necess CCS Agreements - Resource Central .ocation: 6400 Arapahoe Ave					•							\$	
CCS Agreements - Resource Central			\$		•	\$		\$		\$			
CCS Agreements - Resource Central	\$	300,000	\$			\$		\$		\$	<u> </u>		
CCS Agreements - Resource Central ocation: 6400 Arapahoe Ave Pavilion Debt Service	\$	300,000	\$ \$ puncil.	300,000		\$		\$		\$	<u> </u>	\$	_

CIP-Land Acquisition Total	\$ 1,601,760	\$ 640,704	\$ 640,704	\$ 320,352 \$	-	\$ - \$	-
Hogan Pancost Land Purchase	\$ 1,601,760	\$ 640,704	\$ 640,704	\$ 320,352 \$	-	\$ - \$	-

The Hogan Pancost property is a 22.2-acre parcel in area II contiguous to South East Boulder. After several attempts by developers to annex and develop the property, council decided that it would be in the best interest of the community for the city to purchase the land. Having control of the property will allow for a pause to consider the most appropriate uses. It will remove the incentive to maximize the return on investment. It will also allow time to consider the effects of the South Boulder Creek flood mitigation study and guarantee that the neighboring community has a voice in what ultimately happens on the property.



#### Current Focus for Capital Planning and Projects in the 2021 Capital Budget

In alignment with city-wide goals and plans, Community Vitality developed a departmental strategic plan focusing on access for people, vision of place, and pursuit of vitality. During the COVID pandemic, the city's response and recovery, and within an economically constrained environment, it is critically important to adhere to community-supported plans for the purposes of prioritization and efficiency. Specific objectives within the CV Strategic Plan were helpful in guiding decisions within the development of the 2021-2026 Capital Improvement Plan (CIP):

- Invest in existing infrastructure to enhance and extend life of district-owned assets and develop a strategic asset plan for future opportunities.
- Set and achieve customer service enhancements such as, reducing in-person wait times, setting standards for responsiveness to customer issues, and further development of partnerships.
- Utilize existing programs to contribute to the city-wide Vision Zero goals; safety enhancements for pedestrians, bikes, and vehicles.
- To facilitate a diverse and dynamic economy where residents and businesses grow and succeed together through strategic partnerships (internal and external), policies, and programs.

Community Vitality manages several general improvement districts and the district-owned assets. In the Central Area General Improvement District (CAGID), Community Vitality manages five parking structures, two of which have leasable commercial property. Major 2020 projects in the parking structures included work at the Randolph Center to repair persistent water infiltration, structural improvements in the St. Julien Hotel parking structure, and completion of the staircase replacements at 1100 Spruce and 1500 Pearl buildings. The other major 2020 capital project was the replacement of most of the aging on-street parking stations. This is a necessary upgrade to aging infrastructure. This program is essential for maintaining healthy commercial areas and generates significant General Fund revenue. The project is funded through the Facilities and Asset Management Equipment Replacement Fund (ERF).

There are several impacts of the COVID-19 pandemic in terms of revenue loss and subsequent capital project reductions. Community Vitality is in a prominent role in supporting the economic recovery of the city and ensuring a successful and vibrant retail environment. This involves supporting small business grants,

affordable commercial programs, and partnership development, all which have significant operational impact. Additionally, several customer service enhancements for parking products, including the continued effort to move towards more gateless systems at all parking structures was reduced and deferred to future years due to revenue losses in our parking structures.

Other COVID impact to the CV 2021-2026 CIP included the reduction of the planned capital investment in the University Hill Commercial Area. While lighting and public landscaping will be addressed in 2020-2021, other capital investment will be delayed indefinitely until the full revenue impact, completion of the Hill Hotel project, and future parking infrastructure planning are better understood.

Finally, significant reductions are included in the 2021 CAGID capital budget. In addition to delays in software and customer service improvements, reductions in scope were necessary for several projects, including elevator repairs and other structural improvements. Also, the CAGID deck repair program and the capital improvement program for Boulder Junction was cancelled for 2021.

### 2021 Capital Projects

- Completion of the St. Julien capital improvements
- Completion of the Randolph Center improvements
- Elevator repairs at St. Julien
- Affordable Commercial capital program pilot
- 1500 Pearl exterior brick repairs
- University Hill public landscaping

### 2020 Adjustments (if applicable)

- Reduction of scope for the pay station replacement project (\$225,000)
- Reallocation of parking deck repairs to St. Julien repairs (\$400,000)
- Postponement of Pearl Street Refresh Planning (\$65,00)
- Postponement of Phase 1 Gateless Technology (\$130,000)
- Cancellation of other software enhancements (\$50,000)

### **Operating and Maintenance Impacts**

An operational impact that Community Vitality has closely monitored is the pace in which a project can be completed based on project management capacity within the department. With the addition of a project and program manager (added in 2019), departmental capacity to lead projects increased; however, the need for additional capacity to complete major projects still existed. The department retained Orion, Inc., to assist the department with project management through early 2021.

### **Unfunded Projects and Emerging Needs**

### **Unfunded Projects**

The Farnsworth Assessment (2017) identifies over \$12 million of parking structure facilities capital projects and repair and replacement suggested over a period of 10 years based on current conditions and urgency of attention. The 2021-2026 Community Vitality CIP reflects the top priorities in addressing deferred maintenance but cannot absorb the entire amount identified in the Assessment.

Additionally, planning for a future refresh of the Pearl Street Mall and surrounding area is prudent. A large project will require a community conversation and other funding sources than currently identified. The only funding included in the CIP is \$65,000 in 2021 as a shared portion of an initial internal planning effort (in conjunction with Parks and Recreation).

### **Emerging Needs**

The impact of COVID on the business community and the overall local economy will persist throughout 2021 and beyond. As a property owner and key partner with business organizations, Community Vitality will have to monitor the need for investment in district-owned spaces for affordable opportunities and other areas where city investment may be appropriate.

#### **CEAP Projects**

N/A

#### **Board Action**

The Downtown Management Commission (DMC) recommended approval of the Community Vitality 2021-2026 CIP at their July 14 meeting.

The Boulder Junction Access District Commissions (Parking & TDM) recommended approval of the Community Vitality 2021- 2026 CIP at their July 22 meeting.

The University Hill Commercial Area Management Commission (UHCAMC) will consider the Community Vitality 2021-2026 CIP at their August meeting.



### 2021-2026 Capital Improvement Plan

Community Vitality														
	Estin	nated Total Cost		2021 ommended	F	2022 Projected	Pi	2023 rojected	P	2024 rojected		2025 Projected	Р	2026 rojected
Capital Program Total	\$	8,900,000		1,240,000		1,805,000		1,975,000		1,870,000		500,000		1,510,000
CIP-Capital Enhancement Total Affordable Commercial Capital Prog	\$ \$	2,000,000 500,000		300,000 100,000		475,000 100,000		175,000 100,000		850,000 100,000		100,000 100,000		100,000
This is a likely program in 2020 with a portion of the program funder	· ·	,		,				,		,				- General
Fund transfer to CAGID. Council will define program details and s	cope of	f capital-rela	ted pro	oject work late	er in 2	2019 or early	2020.						-	
Gateless System Installation	\$	300,000			\$	300,000		-	\$		- \$	-	\$	-
In alignment with the Access and Parking Management Strategy ( <i>I</i> garages. This technology, currently utilized at the Trinity Garage,							-		tion c	of innovative	e solu	tions within th	e pari	king
The project was initially scheduled for 2020-2021 and was delayed	to 202	2 as a budg	et redu	iction measu	re. T	his will coincie	de wit	h the timing	of th	e next phas	e of A	AMPS implem	entati	on.
Budgeting for Resiliency: Helpful.														
Parking Product Software Enhancemen	\$	225,000		50,000		75,000		-	\$		- \$		\$	100,000
In alignment with the City's Goals and Values and Community Vita enhances the current suite of parking products offered by Commun phase of the AMPS implementation.						•		•		•				
The overall scope of the project was reduced as a budget savings	measu	re.												
Budgeting for Resiliency: Helpful.														
University Hill Landscaping	\$	150,000	\$	150,000	\$	-	\$	-	\$		- \$	-	\$	
UHGID is responsible for a portion of the investment in public infra	structu	re. This is a	partne	ership with Fo	oresti	ry to replace ti	rees a	and otherwis	e imp	prove the a	esthet	tics in the pub	lic rigl	nt-of-way.
Budgeting for Resilience: Amenity. Parking Garage Exterior Brick Rehab	\$	825,000	\$	-	\$	-	\$	75,000	\$	750,000	)\$	-	\$	-
This project is to address necessary rehabilitation of the brick struct that arise during assessment. Some of this work is necessary to a													struct	ural issues
Budgeting for Resiliency: Important														
CIP-Capital Maintenance Total	\$	6,835,000	-	875,000		1,330,000		1,800,000		1,020,000	\$	400,000		1,410,000
1500 Pearl Brick Repairs Assessing the brick façade on the west, south, and east elevations	\$	175,000		175,000		-	\$	- brick Bonlo	\$	the demos	- \$	- -	\$	-
removing the mortar from the bed joints and installing a soft sealar		parking suu		and removing	1005		aleu	ынск. теріа	cing	ine uamay		cks, and at an	IIIIC	iocations,
The work will focus on areas where there is potential safety issues	from lo	oose materia	ıls.											
Budgeting for Resiliency: Important														
Boulder Junction Public Improvemnts	\$	400,000	\$	-	\$	100,000	\$	100,000	\$	100,000	)\$	-	\$	100,000
Boulder Junction Parking District is responsible for the maintenanc public improvements and other related enhancements to the distric utilizing Boulder Junction Access District (Parking) funds.														
This was initially planned for 2021. Due to lost revenue, this will be	e delay	ed until 2022	2. A lo	ng-term plan	ning	effort with the	Bould	der Junction	Com	missions w	ill tak	e place in 202	0 to h	elp inform
future investment.														
future investment.	\$	400,000	\$		\$	50,000	\$	350,000	\$		- \$		\$	

Budgeting for Resiliency: Important.

### 2021-2026 Capital Improvement Plan

Community Vitality													
	Esti	mated Total	2021		2022		)23		2024		2025		2026
		Cost	Recommende		Projected		ected		ojected		rojected		rojected
Garage Deck & Structural Cap Maint The 2017 Farnsworth Facilities Assessment identified deferred ma	\$ aintena	2,000,000	\$ tressed in all of t	- \$	,		400,000	\$ ally_o	400,000	\$	400,000		400,000
repairing the concrete parking decks and underlying structure that													
investment of \$400,000 into various projects, with a focus on the c	concret	e parking de	cks and underlyir	ng stru	cture.						, ,		
The amount was reduced and reallocated in 2020 and 2021 to foc	us on s	specific proje	cts and reduce o	verall I	budget impact.								
Budgeting for Resiliency: Important.													
HVAC System Repair-Replacement	\$	340,000	\$	- \$	20,000	\$	300,000	\$	20,000	\$	-	\$	-
This project is the planning, scoping, and construction of HVAC sy approach from 2022-2025.	/stems	at Spruce ar	d Pearl garages.	This	impacts the par	king are	eas, tenan	t spac	ces, and off	ices a	and represen	ts a pl	nased
Budgeting for Resiliency: Helpful.													
Interior Tenant Space Repairs	\$	450,000	\$ 50,00	00\$	200,000	\$	50,000	\$	50,000	\$	-	\$	100,000
CAGID manages retail space for 13 tenants and approximately 16											maintenance	e withi	n the
spaces and sometimes more extensive work required if/when a ten	nant sp	pace turns ov	er. This represe	nts the	expected annu	ial amoi	unt for mo	re sig	nificant repa	airs.			
Additional consideration may be given to CAGID businesses impa	cted by	y the pandem	ic and assistance	e will b	e determined ba	ased on	n future cri	teria.					
Budgeting for Resiliency: Helpful.													
Parking Building Doors and Windows	\$	200,000		- \$	-		-		200,000		-	\$	-
This is required capital maintenance on all CAGID assets based o help with the energy efficiency of these buildings. This project is pr				t repor	t. Several doors	s and w	indows ar	e in n	eed of repla	aceme	ent and/or re	pair.	This will
Budgeting for Resiliency: Helpful.	,												
Dudgeting for Resiliency. Helpful.													
Parking Garage Elevator Replacement	\$	1,000,000			500,000		-			\$	-	\$	250,000
This project is to address continued work in updating the elevators													
2020. This project would plan, scope, and bid the next major repa scope and cost, \$310,000 in savings over three years.	air and	/or replacem	ent (at the St. Ju	ien) in	2021 and 2022	. An as	sessment	t of th	e otner gara	ages a	allowed for a	n ovei	all reduced
Budgeting for Resiliency: Important													
Parking Garage Fire Supp. Repairs	\$	350,000	\$ 100,00	0 \$	-	\$	-	\$	250,000	\$	-	\$	-
This project is to address critical repairs within parking structures t	to the f		on and sprinkler	system	ns. An assessm		eing cond	lucted	in 2020 an	d ear	ly informatio	n allov	vs for the
overall scope of the project to be reduced. Capital work is likely to	be co	mpleted in 20	21. Future work	is exp	ected in 2024.								
Budgeting for Resiliency: Important.													
ParkingGarage Staircase Replacement	\$	720,000	\$	- \$	60,000	\$	600,000	\$	-	\$	-	\$	60.000
This project will continue the work to address deferred maintenance			-		,				es at the R	TD ga	arage. This v	vork w	as delayed
from 2021 to 2022-2023 to reduce budget.													
Budgeting for Resilience: Important.													
Randolph Garage Deck Repairs	\$	700,000	\$ 200,00	00\$	-	\$	-	\$	-	\$	-	\$	500,000
CAGID is a 50% owner of the Randolph Center at 1100 Walnut. 1												ow an	d adjacent
to the parking structure. After an engineering report confirmed that	at the le	eaking is occ	urring due to poo	r seali	ng in the parking	g struct	ure, imme	diate	repairs are	neces	ssary.		
The estimated total amount of immediate repair is \$465,000.													
Through the Condo Association, additional assessment took place	e in 202	20. This prior	itized work to be	comp	leted in 2020. F	loweve	r, addition	al woi	k will be ne	cessa	ary in 2021.		
Budgeting for Resiliency: Important.													
St. Julien Ramp Repairs	\$	100,000				\$		\$	-	\$	-	\$	-
	e to the	parking stru	cture on Level B	1 remo					- infiltration	· ·	- gh the slab.	\$ The n	- najority of
St. Julien Ramp Repairs Coating leak prevention and repairs Traffic coating at the entrance	e to the	parking stru	cture on Level B	1 remo					- infiltration	· ·	gh the slab.	\$ The n	- najority of

### 2021-2026 Capital Improvement Plan

Community Vitality									
	Estim	ated Total	2021	2022		2023 202	24 202	5 2'	026
		Cost	Recommended	Projected	P	rojected Proje	cted Projec	ted Proj	jected
CIP-Capital Planning Studies Total	\$	65,000	\$ 65,000	)\$	- \$	- \$	- \$	- \$	-
Pearl Street Mall Planning	\$	65,000	\$ 65,000	) \$	- \$	- \$	- \$	- \$	-

This project is for internal planning dollars in support of a collaboration effort between Community Vitality and Parks and Recreation to plan for a future refresh of Pearl Street Mall. This represents half of the estimated amount of the planning effort. This is an initial internal step; public and stakeholder engagement will be mandatory as a part of any future funding beyond the scope of this internal planning process.

This project was postponed to 2021 as a budget reduction measure.

Budgeting for Resiliency: Important.



EAP Recuired				Subcommunity: BVCP Area: CEAP Status		
CONCERNING ST	<b>^</b> \					
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		2018	Budget	5.		
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apital improvement			\$\$50,00	proi	300	
			\$300,000	prol She	ots	



#### Current Focus for Capital Planning and Projects in the 2021 Capital Budget

In 2021, the Facilities Department will focus on three areas:(1) planning, designing, and constructing new and major renovation of building infrastructure, (2) maintaining existing infrastructure, and (3) completing the city's first-ever Facilities Master Plan and implementing an improved capital planning process for the city's building portfolio.

#### New Construction and Major Renovation of Building Infrastructure

The newly established Facilities Department is leading design and construction efforts on two new construction projects, the North Boulder Branch Library and Fire Station 3 relocation. A third major project is the redevelopment of the Alpine-Balsam site which was purchased by the city in December 2015. The first major project on the site occurred in 2018 with the renovation of the existing Brenton Building which consolidated the city's Finance Department into one building. This was followed by interior deconstruction of the Boulder Community Health (BCH) hospital and Medical Office Pavilion (Pavilion) to prepare for major renovation of the Pavilion building. The focus in 2021 will be continuing renovation of existing buildings and planning for redevelopment of the site into a centralized Western City Campus which will enable several existing city buildings, currently dispersed, to be consolidated into this one location to better serve the community. Through consolidation many efficiencies can be achieved through more effective use of physical space, reductions in deferred maintenance backlog, economy in operations and maintenance and advancements towards the city's climate commitment by creating high energy performing buildings.

#### Maintenance of Existing Infrastructure

The Facilities Department expanded the asset management program from 22 to 70 city facilities in 2020. The asset management software is used to prioritize building system replacement needs and assign a Facility Condition Index (FCI) score to each building. The Deferred Facility Maintenance Projects funding will be used on urgent or high priority system repairs or replacements in buildings with the lowest FCI score. Replacements funded with this project include HVAC systems, fire suppression/detection systems, major maintenance or replacement of roofing systems, etc.

Fire stations major maintenance will continue in 2021. The 24/7 occupancy of the city's eight fire stations and their status as essential facilities requires a higher level of maintenance. This annual CIP project is distributed among the eight Boulder fire stations to improve the quality of kitchen, dining, and living areas. The 2021 project plan is currently being developed in coordination with Boulder Fire-Rescue Department.

The Parks and Recreation (BPR) Aquatics Facility Study (AFS) identified deferred maintenance needs within existing BPR facilities. Addressing the needs identified will be a multi-year effort and East Boulder Community Center (EBCC) will be the focus for 2021 and 2022. Facilities will partner with BPR on a Natatorium Enhancement project that addresses the identified deferred maintenance and improves the user experience. In 2021, funding will be used to supplement planning and design for the EBCC Natatorium Enhancement project and in 2022 funding will go toward implementation with the Facilities portion being used to address necessary facility repairs.

Facilities will partner with BPR on the Neighborhood and Community Park Capital Maintenance project. This project provides funding for asset maintenance throughout the Neighborhood and Community Park system as well as a complete renovation of one neighborhood park annually to meet the goals outlined within the BPR Master Plan and Capital Investment Strategy. Facilities will contribute funding and collaborate with BPR on the planning, design, and implementation of a renovation for North Boulder Park in 2021 and Martin Park in 2023.

#### Facilities Master Plan Implementation

The new Facilities Master Plan (FMP) is a comprehensive assessment of all city facilities encompassing more than 70 buildings and structures (it excludes OSMP barns and ranches and park shelters). Key goals of the first Facilities Master Plan are to identify a common vision and core values across all city facilities and to measure facility health and condition against these common values. It is also to guide a strategic implementation plan and capital investment strategy for near term, within the timeframe of CIP planning and over the long term, decades. Major milestones for investment strategies align with the city's Climate Commitment Goals in both 2030 for city buildings and 2050 with community wide goals.

A key strategic initiative of the FMP is to consolidate 22 facilities that are not otherwise tied to a specific geographic location such as a fire station or recreation center. There are numerous benefits that can be achieved through consolidation such as operational and maintenance efficiencies, energy efficiency, space economy, increased staff effectiveness and more.

Many of these benefits also result in cost savings and most importantly better delivery of essential services to the community. The completion of the FMP and development of the implementation strategy as it applies to capital planning will be a focus of the Facilities Department in 2021.



### Covid-19 Impacts

The COVID-19 pandemic has resulted in fiscal and staffing constraints for the Facilities Department and nonfurloughed staff resources have been diverted to COVID Recovery. The planning and design schedule for the Alpine-Balsam redevelopment project has also been impacted. At this point, it is unclear if there will be an impact in 2021 on the overall Alpine-Balsam redevelopment timeline.

The Facilities Master Plan (FMP) adoption has been delayed due to the Covid-19 pandemic impact on the City Council schedule and some staff shifts to focus on COVID Recovery. In 2021 capital investment projects will be executed that align with City Council initiatives and maintain current building infrastructure. Strategic investment opportunities to reduce the backlog of deferred maintenance in city buildings will addressed in the FMP in 2021 with implementation on prioritized projects anticipated to proceed in 2022.

### **2021 Capital Projects**

- BCH Hospital Deconstruction
- Western City Campus Development
- New Fire Station 3. More details can be found in BF&R CIP.
- New North Boulder Library. More details can be found in BPL CIP.
- North Boulder Park Shelter Repair
- Aquatic Facilities Major Maintenance
- Fire Stations Major Maintenance
- Major Maintenance of Building Systems

### 2020 Adjustments (if applicable)

### Alpine-Balsam Hospital Deconstruction – Budget Deferral (\$1,600,000)

As part of the Alpine-Balsam Area Plan, adopted by City Council on Oct. 1, 2019, the city is deconstructing the main hospital building at the Alpine-Balsam site. The timing of deconstruction of the exterior of the main hospital should be completed concurrent with flood mitigation construction along Balsam Ave. The flood mitigation work is not anticipated to begin until 2022 at the earliest. The funding for the exterior deconstruction of the hospital has already been appropriated but it is does not need to be encumbered until 2022 to coincide with flood mitigation work. Therefore, \$1.6 million (one-time) of the hospital exterior deconstruction funding can be deferred until late 2021.

### Teahouse Entry Alterations - Budget Reduction (\$255,000)

This CIP was created mostly in response to a need for thermal protection from the elements right at the main entry doors. Adding an entry vestibule has many challenges that had not been fully identified at the time the CIP was presented. A solution to provide a simple air curtain, which will cost under \$10k can be implemented to alleviate the primary concern.

### BMoCA Electrical Upgrade - Budget Reduction (\$104,000)

This was originally planned as a 2017 CIP project to upgrade the electrical system in BMoCA. Since the CIP was approved in 2017, BMoCA has planned for an expansion of their facility and it was determined that an electrical upgrade to the facility should be completed as part of the expansion project and not independently. This project should be reassessed when BMoCA has determined what level of improvement (or none) they will be making to the facility.

### Aesthetic Improvements to City Buildings - Budget Reduction (\$150,000)

This 2020 CIP was funded to make minor aesthetic improvements in various buildings as needed. These improvements are not necessary given current budget challenges and while most administrative buildings are closed to the public and staff are teleworking.

### Municipal Building Flood Gates - Budget Reduction (\$94,000)

The manual flood gates at the Municipal building are not currently working properly; however, a solution that meets current flood regulations has not been found. The project has been further delayed so that a solution that is well coordinated with other Civic Area improvements can be implemented. This project has been delayed indefinitely until such a solution is identified.

#### **Operating and Maintenance Impacts**

The new North Boulder (NoBo) Library will be under construction in 2021. Boulder Public Libraries are currently leasing a 500 square foot storefront location and the new NoBo Library will be a 10,500 square foot high-performance building owned and maintained by the city. The estimated General Fund budget impact for the new NoBo library is \$300,000 annually. \$90,000 for O&M and Utilities and \$210,000 in FR&R contributions to fund major maintenance and repair & replacement over the life of the building.

The new Fire Station 3 and Pavilion remodel will be in the design phase in 2021 with construction expected to start in 2022. Facilities will develop the on-going funding needed for both buildings in the 2022 budget submittal.

NoBo Library and Fire Station 3 represent a net increase in total square footage and operating expenses when compared to their previous building locations. The Pavilion remodel project will allow for the consolidation of existing office buildings into a single high-performance building resulting in an overall net reduction in square footage which will lower O&M and Utility expenses for the overall city portfolio. Facilities operating expenses will increase in the short term as NoBo, Fire Station 3, and the Pavilion come online, but will start to decrease as the consolidated buildings are deconstructed, sold, or repurposed by the city. Operating expense reductions are not expected to be realized until 2026 and beyond.

O&M expenses for the remainder of the city's building portfolio are expected to remain steady as investments are made in replacing aging building infrastructure through the Deferred Facility Maintenance Projects CIP. Critical and high priority building system replacements will reduce the O&M for that specific building system, yet the balance of existing infrastructure will continue to age. The Facilities Master Plan will address the capital funding target for the city building portfolio and the impact to on-going operating and capital budgets will be clearer in 2021.

### **Unfunded Projects and Emerging Needs**

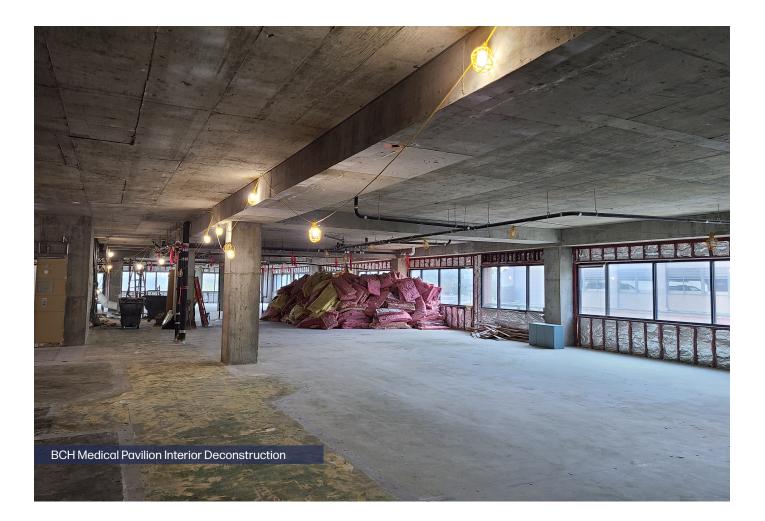
Fire Station #8, opened in 2015, and the Brenton Building, opened in 2018, have not been collecting facility renovation and replacement funding (FR&R). Best management practice recommends 2% of the facilities replacement value be collected annually to fund future renovations and replacements to maintain the value of the asset over its life cycle. Fire Station #8 has a \$6 million replacement value and the Brenton building is \$8 million. In total, \$280,000 of annual funding for future replacement needs are not being collected for these buildings.

The COVID-19 pandemic forced the closure of city administrative buildings and city staff who could work remotely were asked to do so for an extended period through 2020. As a result, the organization learned that the city can effectively telework and many staff now prefer to maintain some amount of telework permanently in their weekly schedule. Another lesson learned is that in-person engagement and collaboration is also necessary for true success and service excellence. The pandemic also brought to light the requirements for a healthy building, one that lessens the spread of infectious disease and promotes the health of individuals who occupy the spaces. These lessons will be incorporated into all new building projects moving forward and overall should result in reduction of costs per employee – both from physical space reduction as well as reduced health care expense.

The Facilities Master Plan (FMP) will be completed in 2021. The FMP will guide the city's future capital investment strategy for the building portfolio. Guidance and direction provided in the FMP could significantly change the unfunded needs in 2022.

**CEAP Projects** N/A

**Board Action** N/A



### 2021-2026 Capital Improvement Plan

Facilities & Asset Management									
	Es	timated Total Cost	2021 commended	2022 Projected	2023 Projected	2024 Projected	2025 Projected	I	2026 Projected
Capital Program Total	\$	71,373,046	\$ 1,578,841	\$ 3,178,841	\$ 61,798,841	\$ 1,578,841	\$ 1,658,841	\$	1,578,841
CIP-Capital Enhancement Total	\$	61,992,258	\$ 392,258	\$ 1,600,000	\$ 60,000,000	\$ -	\$ -	\$	-
BCH Hospital Deconstruction	\$	1,600,000	\$ -	\$ 1,600,000	\$ -	\$ -	\$ -	\$	-

On May 16, 2019 City Council voted to proceed with deconstruction of the main hospital to prepare the Alpine-Balsam site for future redevelopment. The full scope of the deconstruction project includes interior deconstruction of the main hospital and Pavilion to prepare the latter building for future renovation. The exterior of the hospital building will be deconstructed and separated from the Pavilion building and the holes in the side of Pavilion where the hospital was once connected will be temporarily patched back until full renovation of that building proceeds. The basement of the hospital building will be excavated and the whole left behind will be filled. The final phase of work necessary to complete the deconstruction project is grading of the site which is being coordinated with future flood mitigation plans so that grading as part of the deconstruction project can work towards achieving those future flood mitigation goals for the site.

The total project costs have been estimated between \$14M - \$16M for the work described above. The first ATB in 2019 appropriated \$11,850,000 to the project. This amount reflects what was available from year end balance carryover from 2018 to utilize towards this project. In the 2020 approved budget, \$3,350,000 was appropriated to bring total project appropriations up to \$16M in order to complete all phases of the hospital deconstruction.

The timing of deconstruction of the exterior of the main hospital should be completed concurrent with flood mitigation construction along Balsam Ave. The flood mitigation work is not anticipated to begin until 2022 at the earliest. The funding for the exterior deconstruction of the hospital has already been appropriated but it is does not need to be encumbered until 2022 to coincide with flood mitigation work. Therefore, \$1.6 million (one-time) of the hospital exterior deconstruction funding can be deferred from the original 2020 budget to help fill a funding gap due to the COVID-19 Pandemic.

The Capital Funding Plan below reflects needing the \$1,600,000 back in 2022 to complete the project.

This project is considered 'Essential' using the Budgeting for Resilience classification in that it could not be cut without a significant impact, or risk of impact, to the city's basic operation and functioning. The BCH Hospital building is partially deconstructed and finishing deconstruction of the exterior will enable the rest of the site to be made ready for future redevelopment. Leaving the building standing as a unoccupied cold shell poses significant health, life, and safety risks.

Western City Campus Redevelopment	\$ 60,392,258 \$	392,258 \$	- \$ 60,000,000 \$	- \$	- \$	-
The Alpine-Balsam Area Plan was adopted by Council in the fall of	f 2019. The plan included t	he intent to renovate th	e Medical Office Pavilion for city	services and redevelo	op the eastern por	tion of
the site as a new consolidated Western City Campus. In 2020, a b	oudget of \$1.7M was approp	priated to begin design	work to advance development of	the site for this purpo	ose and to prepare	e the
remainder of the site for future housing development. Early design	work included development	nt of a city-wide master	consolidation program to inform	an approach for delive	ery of city services	s now
and into the future as well as flood mitigation design and other hor	rizontal infrastructure analy	sis necessary to comple	ete the project. An additional \$39	2,258 in 2021 will brin	ig the total approp	oriations
to \$2,100,000 covering most, if not all, design work required for the	e project.					

Construction on the site is anticipated to begin in 2023 and early estimated costs for the city portion of redevelopment work are approximately \$60,000,000. This number includes renovation costs of the Pavilion building, site improvements, and escalation for a construction start in 2023. The number also includes the deconstruction cost of Park Central and New Britain buildings which will be possible once city staff and services are relocated out of those buildings and onto the Western City Campus. It may also capture flood mitigation work on site and additional horizontal infrastructure such as roads and pedestrian paths that are required by regulatory agencies to be constructed as part of the Western Campus redevelopment. Design work at this stage is conceptual, and therefore cost estimates on all aspects of the project will be further developed as the project progresses and is refined. As more details develop on various aspects of the project such as flood mitigation, these may develop in subsequent years as separate and discrete CIP projects.

Funding for the Western Campus Redevelopment project will be through bond proceeds in the General Fund. A portion of debt service for the bond will be offset from lease savings from vacating Center Green city offices.

This project is considered 'Essential' using the Budgeting for Resilience classification in that it could not be cut without a significant impact, or risk of impact, to the city's basic operation and functioning. This project enables the city to realize significant operational and cost efficiency through consolidation of multiple aging buildings into a single high performance city campus.

CIP-Capital Maintenance Total	\$	9,030,788	\$	1,186,583	\$	1,578,841	\$	1,798,841	\$	1,428,841	\$	1,458,841	\$	1,578,841
Aquatics Facility Repairs	\$	1,476,000	\$	100,000	\$	1,123,000	\$	253,000	\$	-	\$	-	\$	-
The Parks and Recreation (P&R) Aquatics Facility Study (AFS)	) identified	I deferred ma	ainten	ance needs with	in P	&R existing fa	aciliti	es. P&R oper	ates	11 pools with	nin th	ne city includir	ng inc	loor and
outdoor leisure pools, lap pools and hot tubs. As part of the Ad	quatics Fa	cility Study o	ngoin	g maintenance a	and r	epairs to reci	reatio	on facilities ha	ave b	een prioritize	ed sta	arting with the	thre	e indoor
facilities, 2021 funding will be used to supplement planning and	d desian f	unding for Ea	ist Bo	ulder Recreatior	ı Cei	nter (EBRC).	2022	2 fundina will	be us	sed to supple	men	t EBRC Natat	toriur	n

facilities. 2021 funding will be used to supplement planning and design funding for East Boulder Recreation Center (EBRC). 2022 funding will be used to supplement EBRC Natatorium enhancements, with the Facilities portion going to address necessary facility repairs. 2023 funding will go toward funding the remaining Aquatic Facility repairs identified in the Aquatics Feasibility Study.

This project is considered 'Helpful' using the Budgeting for Resilience classification in that it could be cut without significant or immediate impacts to the city's basic operations and functioning.

Building Perf Energy Requirements	\$	- \$	- \$	- \$	- \$	- \$	- \$	-
Perform energy assessments and retro commissioning (RCx)	to comply with	Boulder Building Pe	rformance Ordinan	ce (BPO) (Ordina	nce no. 8071). The	RCx requires im	plementing cost e	ffective
RCx measures within two years of the study. FAM will be perfected	orming the ene	rgy assessments, Re	Cx, and implement	cost-effective mea	asures on buildings	s greater than 5,0	00 square feet.	

 Deferred Facility Maint Projects
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### 2021-2026 Capital Improvement Plan

Facilities & Asset Management														
	Estir	nated Total Cost		2021 ommended		2022 Projected	P	2023 rojected	Pr	2024 rojected	P	2025 rojected	Р	2026 rojected
Fire Stations Major Maintenance	\$	900,000	\$	150,000	\$	150,000	\$	150,000	\$	150,000	\$	150,000	\$	150,000
The 24/7 occupancy of the city's eight fire stations and the status a fire stations to maintain finishes to industry standards, and upgrade 2023.														
This project is considered 'Important' using the Budgeting for Resil functioning. Fire Stations are essential but the types of projects fur upgrades to fire stations that support first responder's ability to per heater, etc. replacements) are funded through Deferred Facility Ma	nded ou form th	it of Fire Sta eir job functi	tions N ions. B	lajor Maintena uilding infrastr	ance ucti	are classified a ure system repa	as 'In	nportant'. Th	ne type	es of project	s fund	ded include i	non-ir	frastructure
Fleet - System Repairs/Replacements	\$	300,000	\$	-	\$	-	\$	220,000	\$	-	\$	80,000	\$	-
This project is considered 'Important' using the Budgeting for Resil functioning. This project will fund building infrastructure maintenant Martin Park Shelter Major Maint The P&R Round 1, Capital Investment Strategy project improved th trash/recycling receptacles and concrete flatwork. FR&R funding w surface finishes of this facility constructed in 1962. Minor cosmetic with any major renovation project. The funding for this project will b	ce requ \$ he shel vas not work to	<b>170,000</b> ter's exterior available wit otaling \$16,0	life, he \$ r to incl th 2013 000 was	alth, and safet 	sy of sess bject 200	to the shelters, t. This project u 7. Code upgrad	sitors \$ lighti pgrac es fo	<b>170,000</b> ing upgrades des the plum or the electric	\$ , ame bing a al sys	nities (bench and fixtures a stems will als	\$ nes/ta and re o be	ibles), bear r enews interio accomplishe	\$ proof or and d as	- exterior required
Martin Park in 2023. This project is considered 'Helpful' using the Budgeting for Resilier	nce cla	ssification in	that it	could be cut w	/ithc	out significant or	imm	nediate impac	cts to	the city's bas	sic op	erations and	l func	tioning.
No Boulder Park Shelter Repair	\$	120,000		120,000		-		-	\$	-	\$		\$	_
The P&R Round 1, Capital Investment Strategy project improved th trash/recycling receptacles and concrete flatwork. FR&R funding w exterior surface finishes of the facility built in 1969. Minor concrete renovation projects. The funding for this project will be combined w Park in 2021.	/as not work to	available to otaling \$19,0	time w )00 wa:	ith CIS project s last done in :	t. Th 200	nis project upgra 7. Electrical coc	ades le up	the plumbing ogrades will a	g syste Iso be	ems and fixtu e accomplish	ires a ed as	and renews i required wi	nterio th ma	r and jor
This project is considered 'Helpful' using the Budgeting for Resilier	nce cla	ssification in	that it	could be cut w	/ithc	out significant or	imm	nediate impac	cts to	the city's bas	sic op	erations and	l func	tioning.
Tantra Park Shon Renovation	\$	300 000	\$	_	\$	_	\$	300 000	\$	_	\$	_	\$	

 Tantra Park Shop Renovation
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This project is considered 'Important' using the Budgeting for Resilience classification in that it could not be cut without a significant impact, or risk of impact, to the city's basic operation and functioning. Tantra Park is the south zone Parks Operations and Maintenance team's maintenance shop. Tantra Park is assessed as 'Important' rather than 'Helpful' because of the building's role in supporting the daily operations of the team providing the maintenance of all neighborhood and community parks in the south zone.

CIP-Capital Planning Studies Total	\$ 350,000 \$	- \$	- \$	- \$	150,000 \$	200,000 \$	-
Facilities Master Plan Updates	\$ 350,000 \$	- \$	- \$	- \$	150,000 \$	200,000 \$	-

This project funds the first update to the new Facilities Master Plan (FMP) which is a comprehensive assessment of all city facilities encompassing more than 70 buildings and structures (it excludes OSMP barns and ranches and P&R shelters). Key goals of the first Facilities Master Plan were to identify a common vision and core values across all city facilities and to measure facility health and condition against these common values to guide a strategic implementation plan and capital investment strategy for near term, within the time frame of CIP planning and over the long term, decades. Major milestones for investment strategies align with the city's Climate Commitment Goals in both 2030 for city buildings and 2050 to align with community wide goals.

A key strategic initiative of the FMP is to consolidate 22 facilities that are not otherwise tied to a specific geographic location such as a fire station or recreation center. There are numerous benefits that can be achieved through consolidation such as operational and maintenance efficiencies, energy efficiency, space economy, increased staff effectiveness and more. Many of these benefits also result in cost savings and most importantly better delivery of essential services to the community.

The update to the FMP, funded by this project, will provide an update on progress towards goals identified in the original plan and define the next near term strategic investment plan based on what has been achieved, new opportunities that have arisen and other influences experienced since the first FMP was adopted.

This project is considered 'Helpful' using the Budgeting for Resilience classification in that it could be cut without significant or immediate impacts to the city's basic operations and functioning. Funding is already appropriated for the first city-wide Facilities Master Plan (FMP), anticipated to be adopted in 2021. The update to the FMP in 2024 & 2025 will provide an update on progress towards goals identified in the original plan and define the next near term strategic investment plan based on what has been achieved, new opportunities that have arisen and other influences experienced since the first FMP was adopted.

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epertment:	FIRE & RED 2104TN3CC			Subcommunity: BUCP Area:	NORTH BOULDER
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# **Fire-Rescue**

#### Current Focus for Capital Planning and Projects in the 2021 Capital Budget

Fire-Rescue updated its departmental Master Plan in early 2020 and included a number capital replacement and enhancement elements that would enable the department to achieve its Council-accepted strategic goals over the next 7-10 years under three funding scenarios: Fiscally-Constrained, Action, and Vision. At the Fiscally-Constrained level, the Master Plan called for the city to move forward with the relocation and replacement of Fire Station #3 to accomplish three objectives. Fire-Rescue made much progress in 2020 on sourcing and engaging with design and architecture firms to replace Fire Station #3. The full design and permitting process is expected to last into early 2022. Construction timelines are being planned with built-in flexibility to accommodate evolving space needs and changing financial circumstances.

Boulder Fire-Rescue's primary CIP focus for 2021 will be the design and permitting for the relocation of Fire Station 3. The project has completed conceptual design work and is now in the pre-application phase. The relocation accomplishes three primary goals. First, the station is being moved to take it out of a 100-year floodplain. Second, the new station is being re-located to an area that is better situated to respond to higher call volumes. Finally, the replacement of Station #3 will expand Fire-Rescue's system-wide facility capacity to expand into fire-based advanced life support (paramedicine) and transport as well as potentially accommodate administrative staffing space needs. The relocation and replacement of Fire Station #3 is being funded from a number of sources including dedicated dollars generated by the Community, Culture, and Safety Tax that was passed in 2017 in addition to supplemental General Fund capital funding and use of Fire-Rescue's balance of impact fees and development excise taxes in the Capital Development Fund.

In addition to facility capital projects, Fire-Rescue maintains a capital investment program to achieve the timely replacement of its rolling capital stock of eleven front-line and three reserve fire apparatus. Fire-Rescue will be incorporating the fire apparatus replacement model into the CIP to allow for increased coordination of these capital purchases with other overall city planning efforts. In 2021, Fire-Rescue will be replacing one of its fire engines that will operate out of Fire Station #2 and additional engine in 2021 that will operate out of Fire Station #3.

### **Fire-Rescue Capital**

In addition, Fire-Rescue also secured \$250,000 in one-time General Fund capital funding to complete renovations at its seven stations. These renovations resolved gender neutrality deficiencies and also provided for health and safety compliant storage and maintenance space for firefighter personal protective equipment including bunker gear and self-contained breathing apparatus.

### **2021 Capital Projects**

- Fire Station #3 Relocation
- Replacement of a Type 1 Fire Engine

### 2020 Adjustments

The station three project has been evaluated for scalability and staff is proceeding with the project in a measured way. Because the station has just completed the pre-application process, there are currently no further fiscal impacts that can be mitigated during the 2020 budget year. Apparatus replacement modeling would have called for the replacement of one engine this year, but due to budgets adjustments in 2019, this was delayed to 2021.

### **Operating and Maintenance Impacts**

Constructing a new Fire Station #3 will reduce facility maintenance and energy costs relative to the current Station #3 facility that was built in the 1960s. The new station may also include administrative office space along with community and shared meeting space that could be used by other city departments as well as community members. Additionally, the station renovations that were completed in 2020 resulted in system- wide installation of health-compliant laundry facilities which negated the need for separate third-party laundry service generating thousands of dollars in annual operational savings.

### **Unfunded Projects and Emerging Needs**

Fire-Rescue's Master Plan called for a number of capital investments for which sufficient funding has not been identified. At the Fiscally-Constrained level, the relocation and replacement of Fire Station #3 is falling short of approved funding levels. Depending upon the final design of the station, it is anticipated that a range of \$4.9 million to \$11.1 million in additional funding will be needed. At the Action-Level, Fire-Rescue's capital strategy focuses on relocating Fire Station #4 and Fire Station #2, with priority on the latter. In both cases, relocation will remedy the size and functionality deficiencies that currently exist at the outdated stations and likely involve land acquisition. No funding has been identified for either station relocation.

Fire-Rescue has also identified the potential need to better address maintenance in the near-term and repairs in the long-term at the Boulder County Regional Fire Training Center (FTC). The FTC assets for which current maintenance funding is insufficient and replacement funding does not exist include the teaching and administrative space, the fire ground's driving pad, and the burn and smoke buildings. Fire-Rescue manages the FTC under an agreement with the FTC's Board and Boulder County. The City of Boulder is set to take ownership of the facility in 2034 at which point deferred maintenance and replacement will be shouldered solely by the city. In addition to maintenance and replacement, Fire-Rescue intends to eventually pursue phase II of the FTC facility master plan which calls for expansion of the on-site classroom space and adding dormitories to accommodate increased demand. This is identified at the Vision-level within Fire-Rescue's Master Plan.

**CEAP Projects** N/A

**Board Action** N/A

### **Fire-Rescue Capital**





### 2021-2026 Capital Improvement Plan

Fire-Rescue							
	Estimated Total	2021	2022	2023	2024	2025	2026
	Cost	Recommended	Projected	Projected	Projected	Projected	Projected
Capital Program Total	\$ 10,491,560	\$ -	- <b>\$</b>	- \$ 10,491,560	\$ -	- \$	- \$ -
CIP-New Facility/Infrastructure Total	\$ 10,491,560	\$ -	\$	- \$ 10,491,560	\$ -	- \$	- \$ -
Fire Station 3 Desn & Construction	\$ 10,491,560	\$-	\$	- \$ 10,491,560	\$ -	- \$	- \$ -

Fire Station #3 is being moved north on 30th Street to a location that removes it from a 100-year floodplain, better situates it to serve growing call volumes, and allow Fire-Rescue to build a modern station that can address system-wide capital deficiencies and supports possible service enhancements into fire-based advanced life support. The station's \$12.5 million relocation was originally approved and funded out of the 2017 Community, Culture and Safety Tax with \$6.2 million in additional General Fund support. The land acquisition and recent completion of the Fire Master Plan coincided with the design phase of the project and present the city with the ability to help achieve 9 of 22 of Fire's master plan goals relating to system-wide facility capacity, expansion into ALS, and response improvement depending upon the station's approved design. Design options showing varying station size or phasing will be carried through the Site Review regulatory process currently planned to continue through 2021. The station's alternate designs lead to total construction costs ranging from \$25.5 million to \$11.7 million. Construction is being delayed until 2023 to allow time for financial conditions to improve and station design to be fully vetted and finalized.



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### Current Focus for Capital Planning and Projects in the 2021 Capital Budget

During 2019 the city continued the projects recommended by the 2018 assessment of citywide IT operations. A significant and almost immediate outcome of this work has been improved transparency into the IT needs, gaps, and opportunities in the city. This includes major gaps in IT capital funding and technical debt from legacy systems that still demand resources. The next step in IT Transformation is to enhance and streamline the IT funding model citywide which will likely have impacts on the city's IT capital management.

A number of internal and constituent facing technology projects are planned for 2021. From an infrastructure standpoint, the city is investing in upgrades to the existing network infrastructure, redundant backup of critical IT business systems to cloud hosted disaster recovery services, and implementation of a significant network capital project, a 50+ mile dark fiber broadband backbone. Early phases of this project will begin to address data connectivity for underserved members of the community. On the application side, the city is refreshing the website and implementing an enterprise Data Warehouse. These projects will continue into and beyond 2021.

While typically most of IT's projects are capital maintenance projects that involve the replacement and upgrade to existing systems and software, in the next three years, it is expected that significant departmental efforts will need to focus on transforming technical operations and capacity. This is likely to require investment in both capital and operating dollars. IT Transformation is currently underway, including a redesign of the city's technology funding.

On a strategic level, the city is currently looking at how to treat capital funding for technology projects recognizing several factors:

- A strong shift towards a cloud first technology posture;
- Shorter, more significant technology innovation, and obsolescence, cycles;
- Convergence of software and hardware;
- Rapidly increasing bandwidth consumption and connected devices; and
- Increased focus on mobile technology solutions.

### **Innovation & Technology Capital**

### **2021 Capital Projects**

- Initiation and replacement of the city's web platform and constituent relationship management system; Replacement and upgrade of Network Firewall equipment;
- Refresh and upgrade to Laserfiche, the city's document management system;
- Replacement of the Data Backup and disaster recovery system
- Replacement of the virtual server and storage system; and
- Expand the Enterprise wide Data Warehouse.

### 2020 Adjustments (if applicable)

During 2020 the Constituent Relationship Management project was put on hold due to COVID-19 constraints. The project will be moved to 2021. As a result of COVID-19 the replacement of the City's telephone infrastructure will be transitioned from a on premise VoIP system to a cloud delivered Microsoft Teams solution. It is anticipated this project will result in ongoing cost savings for the city organization.

### **Operating and Maintenance Impacts**

Many of IT's CIP assets already have established maintenance and operations funding. No significant increases are anticipated as the result of near-term projects. Additionally, while device replacement has traditionally been captured in the CIP, the operating model manages this as an ongoing operational expense, and going forward, will be captured in the department Computer Replacement Fund operational budget and no longer included in the CIP.

#### **Unfunded Projects and Emerging Needs**

Unfunded projects and emerging needs fall into three categories: system replacement, technology transformation, and market dynamics.

#### System Replacement

Based on the more than 300 applications managed across the city, total system replacement is estimated to be between \$8 million and \$18 million. The wide range is due to various factors, including opportunities for system/function consolidation, new tech market entrants/consolidation, a changing technology landscape, and increasing cost of contracted IT labor.

#### **Technology Transformation**

IT is changing more quickly than it ever has. A few examples include cybersecurity, software defined infrastructure, preeminence of cloud technologies, expanding data use and needs, and the internet of things/connected devices. The current capital funding model does not consider these factors in its approach or strategy and will need to be reworked in 2020 and onwards.

#### **Market Dynamics**

Middle market technology firms that traditionally serve local governments are being consolidated and acquired more quickly than in the past. The outcome can be that a vendor chooses to support and continue one application over others from their portfolio of similar products. The impact to the city is that a system with a planned five to seven year lifecycle may only be vendor supported two to four years, and the city must move to a new product.

**CEAP Projects** N/A

**Board Action** N/A

### **Innovation & Technology Capital**

#### 2021-2026 Capital Improvement Plan

	Est	imated Total		2021		2022		2023		2024		2025		2026
		Cost	Red	commended	Ρ	rojected	F	Projected	Pi	ojected		Projected	Ρ	rojected
Capital Program Total	\$	23,228,400	\$	13,860,600	\$	682,800	\$	5,930,000	\$	575,000	\$	1,855,000	\$	325,00
CIP-Capital Enhancement Total	\$	1,050,000	\$	550,000	\$	250,000	\$	250,000	\$	-	\$	-	\$	
Enterprise CRM	\$	300,000		300,000		-		-			\$	-	\$	
General Fund CIP. Replacement of current CRM system, Inquire enterprise-level tool. Originally approved for 2020 project has be									ted s	ince its rele	ase	in 2013. This	solu	tion is an
Enterprise Data Warehouse	\$	750,000		250,000		250,000		250,000		-	\$	-		
General Fund CIP. The siloed nature of various departments thro orm it exists in, and whether it is compatible with data collected i applications into one location. A data warehouse would improve services. An increase in the CRF of \$30,000/year has already b	n anoth data qu	ner departmer uality and con	nt. Ha sister	aving a citywio ncy throughou	le cer t the (	ntralized syste City. This initi	em v ial p	will allow depar phase of the pro	tmer	its to integra	ite d	ata from multi	ple so	ources and
CIP-Capital Maintenance Total	\$	10,178,400	\$	1,310,600	\$	432,800	\$	5,680,000	\$	575,000	\$	1,855,000	\$	325,00
Data Backup and Disaster Recovery	\$	140,000	\$	-	\$	140,000	\$	-	\$	-	\$	-	\$	
storage sub-systems. Note that these systems are required not o						•		-					¢	25,00
Jatabase Hardware Replacement	\$	540,600	\$	65,600	\$	-	\$	300,000	\$	-	\$	150,000	Ψ	
-lardware and related software necessary to provide and support eplacement.	t the co	mputing infras	struct	ure that delive	ers cri	tical database	e se	rvices. Projec	t inc	ludes maint	enar	ice and end of	life e	equipment
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 Boulder to support connectivity for future broadband and smart city efforts.

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### Current Focus for Capital Planning and Projects in the 2021 Capital Budget

Continuing to provide library destinations that welcome diversity, anchor the community, strengthen its identity, and allow staff members to provide service excellence to all community members is the purpose of the library's capital improvement program. The library in collaboration with the Facilities Department is pursuing capital projects to address library master plan goals to open a full-service branch library in North Boulder and to update public spaces at the George Reynolds Branch Library.

#### North Boulder Branch Library

The first two phases (i.e. planning and site design) of the north Boulder branch library are complete. Both phases were informed by extensive community input. The building design incorporates passive heating and cooling, solar voltaic panels, and other features to make the building net zero ready and reduce ongoing maintenance and energy costs. The facility will include space for the Boulder Reads adult literacy program, public meeting space, and a makerspace. Site design includes convenient multimodal access to community members who reside in surrounding neighborhoods and a walking path that connects directly to The Meadows manufactured home community property.

The site review process will be complete in 2020. Construction is anticipated to begin in 2021. The project is funded from community, culture, and safety (CCS) tax for capital improvements revenues, development excise tax (DET) and impact fee revenues collected for the library, a council-initiated, one-time General Fund contribution, and Library Fund reserves. The total amount of CCS tax revenues for the project is \$5 million, \$4 million are from DET and impact fee revenues, a \$700,000 one-time General Fund contribution, and a generous \$500,000 donation from the Boulder Library Foundation.

The COVID-19 pandemic impacted the project schedule, delaying start of construction by approximately two months. There are no impacts to project funding which is primarily restricted to this purpose and was allocated in 2020.

#### George Reynolds Branch Library Public Space Reconfiguration

The George Reynolds Branch is home library to many older adult patrons and families who reside in south Boulder. The facility reached 50 years old in 2018 and is overdue for interior renovation. The public spaces,

furnishings and collection floor plan have not been updated for several years and do not have the flexibility and functionality to meet the current needs and expectations of the library's patrons. The project includes reducing the height and footprint of book stacks to improve ADA access and site lines, creating more space for collaborative workspace, public computing and seating, and redesigning the children's space making it conducive to exploration and learning.

### Office of Arts & Culture Community Cultural Plan

The Office of Arts & Culture is currently implementing phase two of the Community Cultural Plan. The mission of the division is "to facilitate an alignment in the community around the community's vision for culture: Together, we will craft Boulder's social, physical, and cultural environment to include creativity as an essential ingredient for the well-being, prosperity, and joy of everyone in the community."

Eight municipal strategies are recommended in the Cultural Plan to realize this vision. In phase one, the division had a focus on foundation programs including cultural grants, programs for artists and creative professionals, and public art. For phase two, 2019 through 2021, those three strategies will be enhanced while new initiatives are launched including support for the NoBo Art District, the Creative Neighborhoods program, and new ways to support cultural venues.

In addition to accomplishments in support for cultural organizations, programs for artists, the creative workforce, and other focus areas, the primary capital component of the Community Cultural Plan is the public art program. Currently, there are 12 public art projects underway in different phases of artist selection, design, and construction. There are also two donation proposals being processed which may result in the acquisition of artworks. The major accomplishments of the past year include the pilot Creative Neighborhood murals program, the installation of temporary artworks in the Civic Area and at CU, and a series of mural installations along pedestrian and bike routes including in Martin Acres and along the Boulder Creek Path. Site-specific murals will be featured in the Main Library public restroom renovations.



### Public Art Program

The Office of Arts & Culture public art program is the primary capital component in the Community Cultural Plan. Public Art is guided by the Cultural Plan, as well as the Public Art Policy and the biennial Public Art Implementation Plan. The 2020 deployment of approximately \$200,000, generated through the CCS tax, is dedicated to public art projects within the city. Introduced to the public art policy in 2018, allocation of a percent for art funding within qualifying CIP projects will thoughtfully integrate public artworks into many CIP projects across departments. These public art allocations are captured in the department project sheets of qualifying CIP projects.

### **Creative Neighborhoods Mural Project**

The Creative Neighborhoods Mural Program is planned for a second round of artworks in 2020. The funding provides for new artwork commissions on residential properties, visible from public paths and streets, throughout Boulder. Through open calls, homeowners and professional artists will apply to participate. Selected homeowners will work with the Office of Arts & Culture to partner with regional artists from the City-approved mural artist roster. These homeowner + artist teams develop a design, share it with neighbors, and then paint the murals on homes, garages and fences that can be seen from the public right-of-way. Homeowners commit to maintaining the mural for at least five years

### 2021 Capital Projects

- Construction of the north Boulder branch library
- George Reynolds Branch Library public space reconfiguration

### 2020 Adjustments (if applicable)

The COVID-19 pandemic delayed the start of construction of the north Boulder branch library by approximately two months. The George Reynolds Branch Library public space reconfiguration, funded by the Library Fund, was postponed in 2020 due to impacts of the COVID-19 pandemic. The Main Library north building renovation feasibility study was cancelled in 2020.

### **Operating and Maintenance Impacts**

North Boulder Branch Library – In 2022, the north Boulder branch library will require approximately \$830,000 in ongoing personnel and operating funds for security, equipment maintenance, courier service, etc. This is in addition to the current annual personnel allocation for the NoBo Corner Library, as those staff members will be reassigned to the new branch library. Ongoing building maintenance and utilities costs, which are managed by the Facilities Department, are currently estimated at \$300,000, annually.

### George Reynolds Branch Library Public Space Reconfiguration

This reconfiguration project will have minimal impacts to operating and maintenance of the facility.

### Office of Arts & Culture Public Art Maintenance

General maintenance of the public art collection is the responsibility of the host department. Technical maintenance, conservation, restoration, or repair is the responsibility of the Office of Arts & Culture.

In 2018, the Office of Arts & Culture received \$30,000 of dedicated funding for maintenance of the public art assets, generated through the General Fund. This was a one-time allocation with an anticipated five-year commitment (2018 through 2022). Funds are committed to the maintenance needs of a portion of the existing collection of urban design and public art projects.

As public art projects increase in volume through the introduction of the percent for art rule, staff demands continue to be stretched. The Office of Arts & Culture has one dedicated Full Time Equivalent (FTE) employee to oversee the public art policy, commissioned projects, public art maintenance, murals and the neighborhood mural program, and donations. An additional public art FTE position is a goal of the Office of Arts & Culture.

### **Unfunded Projects and Emerging Needs**

### Library

The 2018 Boulder Public Library Master Plan identifies unfunded projects for 2022 and later, such as: opening a Gunbarrel Corner Library; conducting a renovation feasibility study of the Main Library's north building; renovation of the Main Library's north building to upgrade and/or reconfigure the Canyon Theater, expand the BLDG 61 makerspace, and make more space for community partners; and Carnegie Library for Local History restoration.

Ongoing operating fund for grounds maintenance is an emerging need for the north Boulder branch library project that will need to be addressed through a joint 2022 budget request from the library and the Parks and Recreation Department. Cost estimates for grounds maintenance are forthcoming.

As the library adds staff members to meet master plan goals there is also an emerging need for staff workspace. There may be some opportunity to reconfigure and modify current workspaces that may meet the criteria for a capital project. All city-owned library facility building systems will need to be assessed for energy sustainability in the next few years.

### Office of Arts & Culture

The city is committed to commissioning a diversity of public artworks that range in duration and media and material, from a breadth of artists. This will be accomplished through a fund mix that financially supports the flexibility needed to reach commissioning goals. Current funding includes a percent for art dedicated from capital parent projects – new capital or capital enhancement projects that qualify for public art allocation – and community, culture, and safety tax. Collectively, these two fund sources are estimated to reach about half of the annual recommended fund mix. Additionally, nearly half of the projects underway are showing a budget gap from construction cost escalation, site variables, permitting reviews, and costs which are impacting direct investment into public art.

A strategy for funding gaps in personnel, commissioning, and maintaining assets acquired through the commissioning of public art continues to be a priority as the collection grows.



### **CEAP Projects**

N/A

### **Board Action**

Staff will seek the Library Commission's advice on overall priority for new capital projects. The commission's favorable recommendation for capital project funding from the Library Fund (required by city charter) and Library Fund reserves (not required) will be sought. All public art projects receive review and ultimately approval by the Boulder Arts Commission (Arts Commission) before advancing to the City Manager for approval. Additionally, the Arts Commission reviews and ultimately approves Public Art Implementation Plan, which serves as the public art workplan

### 2021-2026 Capital Improvement Plan

Library & Arts												
	Estin	nated Total Cost	2021 commended	2022 Projected	ł	F	2023 Projected	P	2024 rojected	I	2025 Projected	2026 Projected
Capital Program Total	\$	100,000	\$ 100,000	\$	-	\$	-	\$	-	\$	-	\$
CIP-Capital Enhancement Total	\$	100,000	\$ 100,000	\$	-	\$	-	\$	-	\$	-	\$
GRB Library Public Space Reconfig	\$	100,000	\$ 100,000	\$	-	\$	-	\$	-	\$	-	\$

(Helpful) The George Reynolds Branch Library is home library to many patrons who reside in south Boulder. The facility reached 50 years in 2018. The public spaces and collection layout have not been updated for several years. The current floor plan and furnishings do not meet the needs and expectations of its users. Public spaces need reconfiguration to align with the ways the community wants to use the library.



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## **Open Space & Mountain Parks**

#### Current Focus for Capital Planning and Projects in the 2021 Capital Budget

The 2021 Open Space & Mountain Parks (OSMP) Department capital budget includes projects that are a part of the department's core mission, including capital maintenance of trailheads and trails; agricultural lands management; capital ecosystem maintenance and restoration; and strategic and resource planning. The department's 2021 capital budget is the first that fully incorporates guidance from the OSMP Master Plan that was adopted in 2019. Projects will align with the Master Plan focus areas, which serve as departmental work program priorities for 2021:

- Agriculture Today and Tomorrow Agriculture and water projects aim to improve soil health, integrate sustainable agricultural practices and resource protection, take care of existing infrastructure, and support the next generation of ranchers and farmers.
- Community Connections, Education, and Inclusion Interpretive and integrated planning projects support citywide engagement with federally recognized American Indian Tribes and indigenous peoples, foster connection with nature, and engage youth corps to encourage stewardship as a career and responsible lifestyle.
- Ecosystem Health and Resilience Ecological and restoration projects safeguard large habitat blocks and corridors, reduce undesignated trails, maintain and restore grasslands, forests, wetlands and riparian areas, control invasive species, and promote biodiversity of plants and animals.
- Responsible Recreation, Stewardship, and Enjoyment These projects maintain and improve trails and visitor infrastructure, support enjoyable passive recreation opportunities on OSMP lands, protect scenic resources, and address visitation levels and growth where appropriate.
- Financial Sustainability Capital projects across OSMP support department efforts to take care of what we have and understand total cost of system management. In 2021, OSMP will continue to invest in asset management and other systems in support of Master Plan objectives.

Like other departments, OSMP has experienced revenue shortfalls related to COVID-19 and has taken steps to steward Open Space Fund dollars during pandemic response and recovery. The 2021 CIP reflects a 25% decrease from the initial CIP created by the department. Reductions focused on phasing and rescaling

projects to ensure fiscally responsible capital maintenance and high priority projects can still occur. The revised \$4.4M CIP supported by the Open Space Fund and the Lottery Fund will deliver on department commitments and work to address maintenance backlogs on the land system. The 2021 CIP will support business needs while understanding that additional adjustments will be necessary over the coming years as the department implements the Master Plan.

### **2021 Capital Projects**

- Centennial Trailhead Maintenance
- Fish Passage at East Boulder Ditch
- Gebard/Greenbelt Meadows Integrated Site Project Implementation
- Gunbarrel Integrated Site Project Implementation
- Implement Tall Oatgrass Operating Plan
- Improve Ecosystem Services and Soil Health on Irrigated Lands
- Maintain Agricultural, Irrigation, and Water Management Infrastructure
- North Trail Study Area Implementation (North Foothills Sub-Area)
- Prairie Dog Management
- Restore Habitat and Ecological Functioning on Lower Boulder Creek
- Royal Arch Trail Repair
- Upper Bear Canyon Trail Reroute and Restoration





### 2020 Adjustments (if applicable)

OSMP reduced approximately \$3.4M from the 2020 budget in response to COVID-19 revenue impacts to the Open Space Fund. Department personnel expenditures were reduced by approximately \$1M as a result of the citywide hiring freeze on non-essential positions and the furlough of 38 department employees from April-June 2020. Notably, the Junior Ranger program was cancelled to prevent group gathering and use of shared vehicles and equipment during COVID-19 response and recovery. The remainder of department budget adjustments were accomplished through 25% reductions to non-personnel, 2020 capital, and 2019-2020 capital carryover projects. The department utilized its work planning system to make reductions based on criteria including maintenance condition, staffing impacts, project connection to Master Plan tiered strategies, and more. Reductions focused on rescaling and rephasing projects to still accomplish system maintenance in 2020 while adhering to physical distancing and other regulations.

### **Operating and Maintenance Impacts**

In 2021, OSMP will focus on maintaining irrigation and water infrastructure on leased land, restoring ecological functioning of riparian, floodplain, and grassland habitat, closing and restoring social trails, and addressing trail maintenance backlogs. These projects are aimed at reducing deferred maintenance and some savings are expected on operations and maintenance because of these efforts. For example, ecological restoration projects will remove sediment to allow fish passages while reducing maintenance to head gates. Increases to operations and maintenance will occur where new infrastructure is added, for example, around improved agricultural irrigation. OSMP is confident that any added O&M can be supported by existing operating budget.



### **Unfunded Projects and Emerging Needs**

Over the last year, the Open Space Board of Trustees and City Council have made recommendations around prairie dog management and soil health resulting in the off-cycle addition of two fixed-term positions and capital dollars to support these efforts. In the first quarter of 2020, the OSBT made recommendations around prairie dog management that included potential for increased funding. Due to COVID-19 work plan impacts, City Council review of the OSBT recommendations has been delayed. It is possible that after Council review or at Council direction, additional dollars will be added to the 2021 capital budget via Adjustment to Base process. Related to funding, Open Space and Mountain Parks derives most of its revenue from sales and use taxes. Over the past three years, OSMP has experienced several changes to its sales tax structure, including the sunset of a 0.11 percent sales tax increment and the sunset of the annual General Fund transfer to the Open Space Fund. Most recently, voters extended a 0.15 percent sales tax that had been set to expire in 2019, through 2039. The first-year revenue collection from this increment, estimated at \$5.3M, will support purchase of a conservation easement at Long's Gardens. Along with sales and use tax changes, OSMP anticipates revenue impacts from COVID-19 given its sales tax structure. In 2021, OSMP will continue to strategically set conservative budgets as department funding stabilizes.

Based on strategies implemented in previous and current budget cycles, OSMP feels prepared to develop a 2021 budget that reflects financial realities and upholds our commitment to stewarding the land system. OSMP has maintained contingency reserves at 20% of operating plus debt, maintained strong fund balances, repaid debt in advance of expiring tax increments, de-obligated capital carryover, and improved work planning processes to better understand capital needs. OSMP will be actively monitoring and adapting to revenue projections over the next several years.

### **CEAP Projects**

There are no CEAP projects in the OSMP CIP. All 2021 department capital projects are guided by existing plans, including the Master Plan, Agricultural Resources Management Plan, Grassland Ecosystem Management Plan, Forest Ecosystem Management Plan, and the North and West Trail Study Area Plans. In some cases, these approved plans called for sub-area plans, and several 2021 capital projects are the result of those sub-planning efforts. This includes the Gebhard and Gunbarrel Integrated Site Projects, initiation of property integration planning for the Fort Chambers/Wells site, and the North Trail Study Area Implementation (North Foothills Sub-Area).

### **Board Action**

The Open Space Board of Trustees unanimously recommended the 2021-2026 CIP on June 3, 2020 after previous review at the April 22 and May 13 business meetings.

#### 2021-2026 Capital Improvement Plan

	Est	imated Total Cost	Rec	2021 ommended		2022 ojected	F	2023 Projected	P	2024 Projected	F	2025 Projected	F	2026 Projected
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Emergent Lottery Projects	ې \$	1,712,000			φ \$		ې \$	428,000		428.000		4,411,960		4,701,980
This program captures Lottery Fund CIP dollars that support mult														
elects appropriate project sites based on criteria for Lottery Fun enovations to trails, facilities, or other infrastructure on the land s .) Anemone Trail Construction (\$223,000) - Construction of We construction in 2020 after bid and final design in 2019.	system. Proje	ects include:												
Emergent OS Projects	\$	11,598,479	\$	-	\$	-	\$	1,495,563	\$	1,844,996	\$	3,983,960	\$	4,273,960
This project is to capture multiple projects all funded through the	OS fund not	originally tied t	o a pro	ject account s	o OSN	IP can start	to ur	nderstand cap	oital s	pending on u	nanti	cipated project	cts.	
ish Passage at East Boulder Ditch	\$	250,000	\$	250,000	\$	-	\$	-	\$	-	\$	-	\$	
Helpful) OSMP will collaborate with Xcel Energy to install fish part										ject will creat	e a n	nore gently sl	oping	diversion
ructure that will be more easily navigable for native and sport fis														
will also allow sediment to be naturally transported through the gh sediment deposition at the EBD headgate. This has led to si														
abitat, including critical habitat for Prebles Meadow Jumping Mo														
HR.1) Preserve and restore important habitat blocks and corrido		,		,,		,						····· ··· ··· ··· ··· ··· ···		
ish Passage at Goodhue Ditch	\$	655,000	\$	55,000	\$	600,000	\$	-	\$	-	\$	-	\$	
Helpful) The project will create a fish passage at the Goodhue D														
quatic organisms in rivers, including disrupting spawning, fragm														
sh passage will connect five miles of aquatic habitat that is curre														
rogram, and the Colorado Parks and Wildlife Fishing is Fun pro rategy EHR.1) Preserve and restore important habitat blocks a		roject accomp	lishes k	ey objectives	of the	Ecosystem	Heal	th and Resilie	ence f	ocus area of	the N	/laster Plan, s	pecit	ically
	na comaois.													
	\$	250,000		250,000		-	\$	-	\$		\$		\$	
Helpful) Upon completion of the Integrated Site Project for Gebh	nard in 2020,	the project will	transit	ion to construe	tion. I					oject at Gebl	nard/0	Greenbelt Me	adow	
Helpful) Upon completion of the Integrated Site Project for Gebh e condition of visitor infrastructure, habitat conditions, restoration	nard in 2020, on opportuniti	the project will es, interpretat	transit	ion to construct other items f	ction. In or the a	area. Priorit	y acti	on items fron	n the	oject at Gebł plan include i	nard/0	Greenbelt Me ring fragile na	adow tural	resources
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(Helpful) This project supports implementation of the 2017 facilities assessment, which identified deferred maintenance on structures across the OSMP system. It also supports implementation of the Agricultural Resources Management Plan, which identified nine properties/sites for their potential for future agricultural operations. Each year, OSMP aims to completes at least one major renovation to an identified site, including remodeling the farmhouses to prepare them for agricultural tenancy. In 2021, project dollars will support renovations and upgrades to the Lewis House. The Lewis House is a historic structure on an OSMP agricultural property that has been vacant for many years. The rehabilitation work will make the house livable for agriculture tenants as well as reduce our facility maintenance backlog. This project accomplishes key objectives of two focus areas of the OSMP Mater Plan. Agriculture Today and Tomorrow, and Financial Sustainability. It links to multiple strategies in the Master Plan, primarily addressing ATT.1) Reduce maintenance backlog for agriculture and water infrastructure.

### 2021-2026 Capital Improvement Plan

Open Space & Mountain Parks	Eatin	nated Total		2021		2022		2023		2024		2025		
	Estin	Cost		mmended		ojected	Р	rojected		2024 ojected	Р	Projected		2026 ojected
entennial TH Outhouse Replacement	\$	70,000		70,000			\$		\$		\$		\$	Jeeteu
Helpful) This project involves replacing the existing outhouse at this	trailhead w	hich, due to	increase	ed visitation in	n recent	years, is n	iow ur	dersized an	d no lo	nger functio	ons as	s designed. It	uses a	S
co Resto and GMAP Implementation	\$	825,000	s	125,000	\$	140,000	\$	140,000	\$	140.000	\$	140.000	\$	140,0
telpful) This project will support large non-native tree removal proje nhancing native ecosystems in priority habitat areas. These project lan (GMAP) and were further heavily damaged by the 2013 flooding moval, native plantings, maintenance mowing or spraying, fencing, rategy EHR.1) Preserve and restore important habitat blocks and o	ects, contra areas are l g. Most of th , etc. The p	cted herbace argely riparia	eous we an and v s fall wit	ed spraying a vetland areas nin riparian, w	nd rem that re /etland,	oval, seedi ceived the and grassl	ng, pl lowes and s	anting, soil s t indicator ra ystems acro	tabiliza tings ir ss OSI	tion, and ot the 2010 C MP and may	her ta Grassi y inclu	land Ecosyste ude non-nativ	em Ma e spec	ring and nagemo ies
acilities Assessment Repairs	\$	2,790,000		400,000		460,000		470,000		480,000		490,000		490,0
his program supports the facilities maintenance needed to fulfill mu ondition and what is needed to maintain them including the priority of SMP in 2017 as the Facilities Assessment and has been used to pr S.4) Take care of what we have.	of each facil	ity along wit	n estima	ted maintena	nce and	d repair cos	sts bo	h immediate	and lo	ong term. TI	his inf	formation was	delive	red to
arm Site Improvements	\$	765,000		85,000		160,000		310,000		210,000		-	\$	
nportant) This project will support construction of new or significan sterns and necessary pumps, and out-building construction or mod artnagle, and ERTL properties. All four properties are included amo complishes key objectives of three focus areas of the OSMP Mast the Master Plan, primarily addressing ATT.5) Encourage diverse a	lifications to ong nine site ter Plan: Ag	support the es identified riculture Too	se opera for pote day and	ations. Eight i ntial diversifie Tomorrow, E	nfrastru ed agric cosyste	icture impro ultural oper em Health a	overne ations and Re	ent projects in the Agric esilience, an	will tak ultural d Finar	e place at th Resources ncial Sustair	ne Hu Mana	nter Kolb, Ma agement Plan	inches . This	er, project
unbarrel Hill Veg Restoration	\$	125,000	\$	75,000	\$	50,000	\$	-	\$	-	\$	-	\$	
				Trail Manag										
ssociated closure of undesignated trails. Restoration work will inclu rbs will be drill-seeded to improve native plant diversity in untrailed iorities in the Gunbarrel area. This project accomplishes key object portant habitat blocks and closures, and EHR.4) Reduce undesign	de preparat habitat bloo tives of the nated social	ion of disturi cks. Enhanc Ecosystem trails.	oed area ement a Health a	is for seeding nd protection nd Resilience	and er of high focus	osion contr -quality gra area of the	sslan Mast	addition to r d bird habita er Plan, prim	t and ir narily a	ion work as nprovemen ddressing E	sociat t of vi HR.1	sitor infrastru ) Preserve ar	cture and rest	re ore
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sociated closure of undesignated trails. Restoration work will inclue the will be drill-seeded to improve native plant diversity in untrailed iorities in the Gunbarrel area. This project accomplishes key object portant habitat blocks and closures, and EHR.4) Reduce undesign <b>prove Soil Health and Agroecology</b> mportant) This project accomplishes soil health improvement and r removal efforts. Tasks and methods include compost applications mirrier fence installation, and field irrigation infrastructure maintenand cludes soil health and carbon sequestration). This project accompli- ssilience. The project links to multiple strategies in the Master Plan <b>rigation Infra Maintenance</b> mportant) This project replaces or improves existing irrigation struct ells, and measuring devices. Where appropriate, OSMP will add tell ses, novel ecosystems have developed that are dependent on the conversations with the agriculture and water community. This project	de preparat habitat blor tives of the nated social sestoration es s, keyline plu ce. The goz ishes key o n, primarily a stures and ii lemetry infr continued ject accom	ion of disturi ks. Enhanc Ecosystem trails. 1,107,000 efforts on un wying, cover l is to restor bjectives of dddressing <i>A</i> 697,500 nfrastructure. <i>A</i> delivery of the polishes key of	s ement a Health a -leased crop ar e viable two focu (TT.2) Ir s on prior & well ma objective	is for seeding nd protection nd Resilience 182,000 agricultural p agricultural p s areas of the crease soil h 119,500 ity agricultura intained and er rights. Mai s of two focu	and er of high focus s opertie al seedi oroductie e OSMF ealth an s al lease functio intenano s areas	osion contr quality gra area of the 185,000 s and prop- ng, rotation ng, rotation no to un-lec Master Pl dd resilienc 112,000 d and unlea ning water se priorities priorities	ssland Mast erties al gra ased a ased a ased I delive are e	addition to no b bird habita er Plan, prinr 185,000 where prairi zing, invasiv gricultural p griculture To 114,000 ands, includi y infrastruc stablished c	t and ir harily a e dogs e plant ropertie day an \$ ng dive ture is to n a thr	tion work as mprovement ddressing E 185,000 have been species mus as while ent d Tomorrow 116,000 ersion struct critical to O ee-year bas	social t of vi HR.1 remo anage hancir tures, SMP i sis and	sitor infrastru ) Preserve ar 185,000 vved either by ement, hay cu g ecosystem d Ecosystem 1Ecosystem irrigation ditor irrigated prop d implemente	cture and rest a plag utting, p servic Health \$ thes, la erties. ad annu	re <b>185,(</b> ue ever orairie d es (whi and <b>118,(</b> terals, In som ually bas
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(important) This planning project supports implementation of Prane Dog Working Group recommendations, which encompass praine dog management, prane dog conservation, contract mitigation, education, and funding. At the direction of City Council, OSMP began to implement recommendations in 2020, which encompass praine dog interagement, prane dog conservation, contract mitigation, education, and funding. At the direction of City Council, OSMP began to implement recommendations in 2020, which continuation in 2021. Dollars in 2021 will support updates and revisions to the prairie dog habitat suitability model for use in plan updates, work with neighboring landowners and stakeholders to begin assessing the viability of reintroducing the black-footed ferret in the Southern Grasslands, and work to update the Grassland Ecosystem Management Plan. This project accomplishes key objectives in two focus areas of the OSMP Master Plan: Agriculture Today and Tomorrow, and Ecosystem Health and Resilience. The project links to two strategies in the MP: ATT.3) Address conflicts between agriculture and prairie dogs, and EHR.2) Update and continue implementing system plans guiding ecosystem management.

### 2021-2026 Capital Improvement Plan

Open Space & Mountain Parks	Estimate	ed Total	2021		2022		2023	20	024	2025	5	2026
	Co		Recommend		rojected		ojected		ected	Projec		Projected
S Application Support & Software lepful) The Resource Information Services group completed a strateg SMP's portion of enterprise technology investments as guided by IT. I ts within this system. OSMP will partner with other departments to puu ntours. The department will purchase updated ESRI ELA/Imagery an oject accomplishes two strategies within the Financial Sustainability for	gic operating Dollars in 202 urchase and p nd is prepare	21 will su process L ed to supp	2018. Annual cap opport ongoing c LiDar, including oort OSMP spec	oital dollars onfiguratio classificati ific action	on of the Bee on of points a items around	blemen hive As and der d web o	sset Manage rivation of pl content man	ement sy roducts i agement	vstem for ( ncluding T t as the ci	ns. Addition DSMP and Tree Canop ty develops	ally, dolla go-live o by and Ele s its new	f additional o evation website. Thi
oad and Vehicle Bridge Maintenance	\$6	640,000	\$ 90,	000 \$	110,000	\$	110,000	\$	110,000	\$ 11	10,000	\$ 110,0
ssential) This project supports inspection and maintenance of vehicle ads owned by OSMP. By addressing road maintenance, the departme ive. Both the public and staff benefit from better maintained roads and	ent accompli	ishes obj	ectives of the Fi									
oyal Arch: Trail Re-Route & Repair	<b>\$</b> 1	66,000	\$ 166,	000 \$	-	\$	-	\$	-	\$	- :	\$
nportant) This CIP will support critical repairs to the popular and heavi ctions of the trail requiring a 500-foot reroute to improve trail safety ar sulting in erosion and deteriorating steps. Total repairs are estimated e Roval Arch Trail. Intermittent trail closures are expected during cons	and sustainab I at 2,500 fee	oility. Add t of trail i	itionally, repairs n steep and rocl	are neede ky terrain.	ed to address The project v	s an un will acc	dermined re omplish the	taining w West Tr	vall on a si rail Study /	teep slope Area object	of the tra tive to re	iil that is pair and rere
<b>II Oatgrass Management</b> nportant) This project implements action items from the 2018 Tall Oat		31,250		250 \$	75,000		75,000		75,000		75,000	
nediate threat to native ecosystems, decreases overall plant and ani ds in the past 5-10 years. This project accomplishes key objectives o oports strategy EHR.1) Preserve and restore importance habitat bloc per Bear Canyon Reroute & Restore	of two focus cks and corrie	areas of	the OSMP Mast								Resilien	
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(Helpful) This project will continue department work to implement and adapt visitor management strategies guided by the 2005 Visitor Master Plan (VMP). Incorporating findings from visitor use studies and land management best practices OSMP will assess and update the types and specifications of in-use or potential visitor management practices the department may consider and deploy to manage visitor use and build a monitoring strategy to inform site-specific management decisions. OSMP will develop a tooklikt of visitor use management strategies to consider in relation to other aspects of service delivery. Through this project, specific coordination work will occur on the systemwide trailhead shuttle feasibility study and regional visitor management coordination including efforts such as the NOCO 2050 project. This project accomplishes key objectives of the Master Plan in the Responsible Recreation, Stewardship, and Enjoyment focus area. The project primarily supports the strategy RRSE.1) assess and manage increasing visitation but also works towards RRSE.4) Encourage multimodal access to trailheads and RRSE.5) Manage passive recreation activities requiring an OSMP permit. [This page intentionally left blank]



### Current Focus for Capital Planning and Projects in the 2021 Capital Budget

The comprehensive approach to the department's 2021 capital program is founded on implementing the key themes of the BPR Master Plan, primarily on taking care of existing assets that provide core services to the community while strategically enhancing key parks and facilities outlined within the department's capital investment strategy. In 2020, staff have started the five-year update to the master plan as adopted within the current CIP to refine the goals and strategies to guide the next several years. Staff have consistently prioritized funding on specific projects that meet several criteria related to safety, usage, efficiencies, and revenue generation.

Staff have identified options for reducing spending strategically as a standard practice for this fiscal environment and especially as it applies to the CIP. For both 2021 as well as the full 6-year CIP staff have performed careful analysis and projections for all funds that make up the department CIP and adjusted the spending accordingly to remain within funding projections while still maintaining a healthy fund balance for reserves. Over half of the CIP is now funded exclusively out of the Permanent Parks and Recreation fund while the remaining is funded appropriately out of the .25 Cent Sales Tax, Lottery Fund and Capital Development Fund. Staff will continue to monitor and adjust spending as necessary with new fund projections and revenue information are available related to COVID-19.

Staff have also been innovative in partnering when possible to leverage capital funding that align with many key themes identified in the BPR Master Plan, including:

- Community Health and Wellness Parks and facilities are being improved with capital maintenance and enhancements to the Flatirons Golf Course Facility, Boulder Reservoir, and many outdoor facilities such as courts, playgrounds and ballfields. The amenities are critical to the department's core services and outlined in recent plans and studies.
- Taking Care of Existing Facilities through implementation of the Asset Management Software, improvements to North Boulder Park, Boulder Reservoir South Shore, and Columbia Cemetery will extend the useful life of priority facilities and increase the condition of many assets.

- Building Community Relationships BPR continues to address the Emerald Ash Borer epidemic in Boulder and maintain as much tree canopy as possible. With help from the Tree Trust, developed by the PLAY Boulder Foundation, staff are making progress in fighting the pest and planting replacement trees through capital funding.
- Youth Activity and Engagement many youth sports facilities and play areas will be enhanced and renovated through the 2021 projects that will continue to allow the department to focus on youth and provide opportunities for children in the community.

### 2021 Capital Projects

### Flatirons Golf Course Capital Enhancements

The Flatirons Golf Course is the primary focus for BPR in 2021 and comprises \$6.9M of the overall \$9M CIP. Flatirons in the only public course in Boulder and provides a highly desired recreation amenity while also contributing to funding sources through revenue generation that are so important in helping BPR deliver the recreation programs and services to the community. The golf course has many planned enhancements to ensure playability and provide necessary visitor amenities. This project will provide design and construction of a new pro shop, clubhouse and staff office to replace the former events center that was demolished as a result of the 2013 flood. The proposed facility is not intended to replace the previous event center facility in terms of the previous functions and use such as catered events and banquets. Programming for the golf course and surrounding community needs have been analyzed to build a facility for maximized community benefit. The new facility would include basic services indoors and new outdoor spaces to take advantage of the beautiful Colorado weather and the amazing views of the flatirons from this location. The existing building, containing the pro shop and cart storage, would receive some minor renovations for a consistently pleasing experience. The new facility, including outdoor spaces, would increase the functional space by 130% while remaining safely outside of floodplains.



The design of the replacement facility will occur in 2020 and construction to begin in 2021. Throughout the past several years, the community has experienced residential and commercial growth providing opportunities to expand the services and community programs at the Flatirons Golf Course if new facilities were available. Construction of a new facility has been a priority since the necessary demolition of the event center. Proposed improvements have been carefully considered to fit the current and projected community growth while following the BPR Master Plan guidance of creating multi-use facilities that will serve a wide range of community members. The proposed facility will offer enhanced golf services with a strong focus on the customer experience and flexibility in use to accommodate a variety of programs and events of interest to golfers and non-golfers. Additionally, the facility will be designed to meet the City's Energy Conservation Code and other climate action goals for energy efficiency and environmental sustainability. The City of Boulder is projected to grow an average of 17% in population, jobs and housing over the next 25 years, and the area immediately north of the golf course has been targeted to support much of that growth as a federal Opportunity Zone. The East Arapahoe Transportation Plan has designated East Arapahoe Avenue a "complete street" to allow it to handle increasing traffic volumes through improvements that encourage non-single-occupancy vehicle use.

### Aquatics Facility Capital Enhancements

Based on recommendations of the 2015 Boulder Aquatics Feasibility Plan, this project provides implementation of priority indoor and outdoor pool enhancements for Boulder's aquatics programs. In 2021, the East Boulder Community Center leisure pool will be redesigned with community input to determine a new and improved family aquatics experience. This work will include a new multi-use leisure pool for warm water classes and instruction, a new play structure and an outdoor splash pad will be completed in 2022 in partnership with Facilities and Asset Management funding necessary facility repairs.

### Athletic Field Capital Enhancements

Based on key recommendations of the Athletic Field Study, this program will allow implementation of field repairs and enhancements including turf, field renovations and expansion to accommodate additional capacity for sports uses. Average cost for a complete renovation of an irrigation system is \$63K and which is necessary to ensure preventative maintenance of the systems. System failures can lead to field closures and loss of revenue from field use. In 2021, funding will be used to plan and design access improvements for Pleasantview Fields.

### Natural Lands Management

The department's natural lands team manages over 1,000 acres of wildlife and vegetation conservation areas to support the regions vulnerable ecosystems within urban areas. Capital funding helps support planning and implementation of critical conservation measures and management strategies on the properties. In 2021, funding will provide an opportunity to partner with other departments in developing a comprehensive restoration and management plan for Boulder Creek to balance recreation and public use with maintaining the streams ecosystem which is critical to Boulder.

### Boulder Reservoir South Shore Capital Enhancements

Continuing to implement the 2012 Master Plan and recent Concept Plan and Capital Strategy, this project will provide key improvements to the south shore recreation area and various visitor amenities to serve the region. Funding is planned to continue key enhancement priorities that are outlined each year in the recently approved Concept Plan and Capital Strategy. Projects include a variety of amenities including but not limited to signage, dock repairs, trail connections, pavilions, facility maintenance, road repair, landscaping, and parking lot repair.

#### Urban Forest Management

This project provides annual funding to continue the EAB response by allowing critical safety measures of removing identified trees throughout the city and replacing with new tree species to slow the spread of the pest and ensure safety of the public as well as expanded urban forest management practices. This project also provides treatment of trees designated for preservation and associated infrastructure improvements such as irrigation to ensure sustainability of the new trees.

### Department Master Plan Update

This project will provide funding for consultants and staff to continue a 5-year update to the department's master plan to ensure alignment of departmental programs, services and facilities to meet the needs and goals of the community. This project will include various research tools such as a recreation facilities and programs assessment, an updated community survey and outreach to all members of the community to analyze the mission and offerings of the department. A comprehensive historic and cultural plan will be completed in conjunction with this master plan update to provide for goals and recommendations to ensure the sustainability of the departments' historic and cultural assets over time.

### Neighborhood and Community Park Capital Maintenance

This project provides funding for asset maintenance throughout the system as well as a complete renovation of one neighborhood park annually to meet the goals outlined within the BPR Master Plan and Capital Investment Strategy. The renovations typically include playground replacement, irrigation renovation, forestry maintenance, ADA compliance and shelter repairs. In 2021, renovations will be focused at North Boulder Park.

### **Recreation Facility Capital Maintenance**

Based on recommendations of the 2016 Facility Strategic Plan and upcoming Recreation Needs Assessment, this program will provide annual capital funding for implementation of key facility repairs and renovations at the city's three recreation centers to ensure acceptable facility conditions and continue cost-effectively meeting the needs of health and wellness opportunities within Boulder. This project is combined with funding from the Facilities and Asset Management (FAM) Division of Public Works. In 2021, exterior security cameras will be installed at all three recreation centers to increase safety outside the centers within the parking lots and discourage illegal activity outside of normal operating hours.



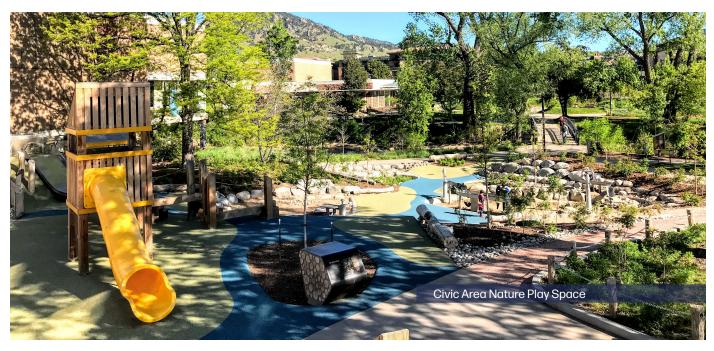
### 2020 Adjustments

Given the current uncertainty related to COVID-19, staff reprioritized the current CIP projects and considering pauses and delays on specific projects to provide the greatest flexibility and responsiveness to budget challenges that exist. Staff have reviewed prioritization criteria to determine what projects should continue and what projects should pause. The following projects were paused and delayed in 2020 to be continued in 2021:

•	Flatirons Golf Course Capital Enhancements	\$2,195,000
•	Master Plan Update	\$140,000
•	General Park Improvements	\$42,000

#### Equitable Distribution

In planning and developing the CIP, the department strives to provide equitable distribution of improvements throughout the city, both geographically and socio-economically. In planning projects and identifying needs, the department reviews all asset management information to prioritize the critical deficiencies and engages staff as well as the PRAB to understand the capital priorities that exist throughout the community. The planned six-year CIP includes a variety of projects throughout Boulder's many subcommunities and even emphasizes development of assets within areas not currently serviced as park amenities.



#### **Operating and Maintenance Impacts**

The department prioritizes capital projects based on maintaining existing assets and decreasing the maintenance backlog of the department's portfolio of parks and facilities. Therefore, most projects included in the department's Capital Improvement Program will not have an impact on maintenance costs due to replacement of aging infrastructure and efficiencies associated with new and improved facilities and systems. However, as the department fulfills commitments relative to long-term planning needs such as the increase in facilities at Scott Carpenter Park, future phases of Valmont City Park, Boulder Junction Park, or Violet Neighborhood Park, the department will need to carefully design enhancements in sensitivity to the department's O&M funding and not overburden funds with maintenance of these new facilities. Staff are also carefully planning future facilities and current renovations to include energy efficiency and opportunities for reducing short-term and long-term O&M needs. This not only reduces maintenance costs and ongoing expenses but meets the city's climate goals

by reducing emissions and achieving environmental sustainability objectives. As an example, irrigation systems are much more efficient now using digital systems, rain sensors, and other technology to not over water. Also, building systems include efficient lighting, pumps, and filters for pools and sustainable materials.

### **Unfunded Projects and Emerging Needs**

In the long-term, additional funding will need to be secured to develop any new major facilities, as well as improve service standards for maintenance operations and to fund deferred maintenance. The department's master plan includes a list of priority items to complete based on various funding levels (fiscally constrained, action and vision). The department's 2016 Capital Investment Strategy identified investments of \$104 million with available funding of only \$64 million over the next 10 years. Staff continue to evaluate deferred maintenance needs, including park sites and recreation facility needs, and have implemented an Asset Management Plan (AMP) to assist in capital planning and day-to-day operations. The current maintenance and facility improvements backlog, including major repairs and replacements, is significant. The department anticipates that this backlog will continue until funding levels reach appropriate amounts to accommodate life-cycle projections for the department's assets.

The current budget reflects an economic reality that is not predicted to shift anytime soon, and it is within this reality that the department must plan. With maintenance backlog estimated at over \$16 million on approximately \$215 million in assets, the department faces difficult trade-off decisions about how to manage and operate its facilities and provide its programs. City guidelines regarding capital improvement prioritize the maintenance of current assets over the development of new facilities, and through the master planning process, the community has indicated strong support for this concept. Even with the .25 cent sales tax renewal, the department must focus on maintaining and improving all deteriorating assets. Simultaneously, the department must respond to the community's shifting values related to new facilities by providing adequate facilities to meet those needs and by making them accessible to the entire community.

### Key Unfunded Projects Include:

- Boulder Reservoir South Shore enhancements to accommodate increased use and visitation as well as basic amenities to support the regional destination as outlined in the Boulder Reservoir Master Plan and currently evaluated through the Concept Plan and Capital Strategy.
- The Recreation Facility Strategic Plan projected a total of \$4.5 million in deferred maintenance and an additional \$3 million over the next ten years in the three recreation centers. This funding need will also be refined and updated with the upcoming master plan related to the Recreation Facilities Needs Assessment.
- The city's pools and recreation centers represent the largest contributors of natural-gas-related greenhouse gas emissions within the entire city operations. Transitioning these facilities to electric solutions will be critical for the city to achieve its 2030 80% greenhouse gas reduction goal. While technology solutions are emerging, but have mixed results for public pools, retrofitting an existing facility represents a cost premium that has not currently been factored into the CIP projects. Staff will need to research and determine the best solution and cost relative to achieving a balanced approach to the city's various goals.
- Increased capacity and additional facilities for youth and adult sports fields.
- Expansion and enhancement of recreation centers and aquatics facilities that accommodate increased demand for lap swimming, fitness equipment and multi-use classroom space that could be expanded.

### To mitigate the impacts of limited funding, staff is:

- Working collaboratively with Facilities & Asset Management (FAM) to prioritize funding for deferred, major and ongoing facility maintenance.
- Deferring low-priority improvements and new capital projects that cannot be funded operationally.
- Completing projects to achieve energy efficiencies at recreation facilities; and
- Developing long-term partnerships and non-traditional funding sources to support desired new facilities and enhancements to existing facilities.

### **CEAP Projects**

N/A

#### **Board Action**

The Parks & Recreation Board (PRAB) unanimously approved the following two resolutions in support of the BPR 2021-2026 CIP at the June 22, 2020 meeting: a motion to approve the 2021 recommended expenditures from the Permanent Parks & Recreation Fund and a motion to approve the Draft 2021-2026 Parks & Recreation Department Capital Improvement Program. Based on updated revenue assumptions, the department shifted funding in out years from the original proposal reviewed on June 22, 2020. The PRAB approved two revised resolutions in support of the BPR 2021-2026 CIP at the August 24, 2020 meeting: a motion to approve the 2021 recommended expenditures from the Permanent Parks & Recreation Fund and a motion to approve the Draft 2021-2026 Parks & Recreation Department Capital Improvement Parks & Recreation Fund and a motion to approve the Draft 2021-2026 Parks & Recreation Department Capital Improvement Program.

#### 2021-2026 Capital Improvement Plan

Parks & Recreation														
	Est	imated Total		2021		2022		2023		2024		2025		2026
		Cost	F	Recommended		Projected		Projected		Projected		Projected		Projected
Capital Program Total		30,974,500		8,540,000		3,478,000		4,710,000		6,157,000		2,606,500		5,483,000
CIP-Capital Enhancement Total	\$	17,768,000	\$	6,610,000	\$	1,638,000	\$	1,790,000	\$	3,630,000	\$	100,000	\$	4,000,000
Aquatic Facility Enhancements	\$	2,858,000	\$	120,000	\$	1,638,000	\$	-	\$	-	\$	100,000	\$	1,000,000
Based on recommendations of the 2015 Boulder Aquatics Feasibil	ity Pl	an, this projec	t pro	ovides implementa	atio	n of priority ind	loor	and outdoor p	ool	enhancement	s fo	r Boulder's aqu	latic	s programs.
In 2020, funding will provide the final touches to the new Scott Car	pente	er pool with inf	rast	tructure and equip	mer	nt to operate th	he fa	acility. In 2021	I, th	e East Boulde	r Co	ommunity Cent	er le	isure pool
will be redesigned with community input to determine a new and in	nprov	ed family aqua	atics	s experience. This	s wo	ork will include	a n	ew multi-use le	eisu	ire pool for wa	۳N	water classes a	nd i	nstruction, a
new kids play structure and an outdoor splash pad will be complete	ed in	2022 in partne	ersh	ip with Facilities a	nd /	Asset Manage	mer	nt funding nece	essa	ary facility repa	irs.	Finally, in 202	5, fu	nding is
provided to partner with City Transportation to begin the design of	the 3	0th street imp	rove	ements along Scot	tt Ca	arpenter park f	to re	emain in comp	lian	ce with necess	ary	infrastructure	requ	ired through
the city's regulatory planning and development review process for	Scott	Carpenter Po	ol e	nhancements. Th	ne c	onstruction of	the	30th street im	prov	vements is ant	icip	ated to be app	roxir	nately \$1M
and is required to be complete by 2026. This project is categorized	l as "	helpful".												

 Capital Infrastructure Enhancements
 \$ 2,580,000
 \$ 2,580,000
 \$ - \$
 \$ 1,000,000
 \$ 1,000,000
 \$ - \$
 \$ - \$

 This project will provide capital funding to implement enhancements at parks and facilities throughout the system. Currently undeveloped park sites such as Violet Park in north Boulder and Eaton Park in Gunbarrel have planned amenities that need to be implemented to meet service levels of surrounding neighborhoods. Other properties have seen a dramatic shift in land use adjacent to the park and warranting a redevelopment option to serve more residents such as Mapleton Ballfields. Additionally, this project will provide implementation of planned amenities at developed park sites that haven't been constructed such as restrooms, ballfields, additional sport courts and play areas. The Recreation Facility Needs Assessment completed in 2021 will also outline future priorities that will be funded through this project that will enhance the existing recreation facilities. In 2021, funding is identified to support the redevelopment of the Flatirons Golf Course facility to meet the needs of the community. The new facility will result in an increase of square footage and capital development funds are being used to adverse the growth related as helpful.

East Mapleton Ballfield Enhancement	\$ 2,100,000	\$ - \$	-	\$	210,000	\$	1,890,000	\$	- \$	-
As a result of the implementation of the Boulder Junction area alo recreation amnenities such as playgrounds, dog parks, open lawn										
residential area as development occurs. This project will result in										
by the underpass along Goose Creek.A community planning proje other sports complexes as included in the department's Athletic Fi			riori	ties fo	r constructi	on.	Any reduction	in ba	allfields will be replaced at	

 Flations Golf Course Enhancement
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### 2021-2026 Capital Improvement Plan

Valmont City Park - Phase 2	\$	3,240,000		-	\$	-	\$	-	\$	240,000	-	-	\$	3,000,000
This project provides for the development of the next major														
garden space, a splash pad, skate elements, an event pavili	on and addit	tional parking	j. Fina	al plans will be co	ompl	leted in 2023 t	o de	termine amer	nities f	or developn	nent	as well as ava	ailabl	e funding.
Final design and permitting will occur in 2024 with constructi	on to comm	ence in 2026	. This	project also allo	ws f	or increased p	bark	service to the	surro	unding area	s of	east Boulder a	as we	ell as the
entire Boulder community. This project is categorized as hel	pful.													
CID Conital Maintenance Total	*	42 000 500	¢	4 720 000	¢	4 940 000	¢	2 020 000	¢	2 527 000	¢	2 500 500	¢	4 492 000
CIP-Capital Maintenance Total	\$	13,006,500		1,730,000	\$	1,840,000	\$	_,,	\$	2,527,000	\$	2,506,500	\$	1,483,000
Athletic Field Improvements	\$	176,000	· ·	50,000			\$	63,000	· ·	-	<b>•</b>	63,000	· ·	-
Based on key recommendations of the Athletic Field Study,														
accommodate additional capacity for sports uses. Average														
System failures can lead to field closures and loss of revenu	e from field	use. In 2021,	fundi	ng will be used t	to de	esign parking l	ot ex	kpansion impr	ovem	ents for Plea	asan	tview Fields.	This p	project is
categorized as "helpful".														
Boulder Reservoir South Shore	\$	2,676,500	\$	200,000	\$	-	\$	1,300,000	\$	355,000	\$	721,500	\$	100,000
Continuing to implement the 2012 Master Plan and recent C	oncept Plan	and Capital	Strate	egy, this project v	will p	provide key im	prov	ements to the	south	shore recre	eatio	n area and va	arious	visitor
amenities to serve the region. Funding is planned through 2	2026 to conti	nue key enha	ancem	nent priorities that	at ar	e outlined eac	h ye	ar in the recei	ntly ap	proved Con	cept	Plan and Ca	pital :	Strategy.
Projects include a variety of amenities including but not limite	ed to signag	e, dock repai	irs, tra	il connections, p	bavili	ions, facility m	ainte	enance, road i	repair,	, landscapin	g, ar	nd parking lot	repai	r. This
project is categorized as helpful.														
Columbia Cemetery Capital Maintenan	\$	168,000	\$	-	\$	40,000	\$	32,000	\$	32,000	\$	32,000	\$	32,000
The cemetery is a designated landmark and requires ongoin	a maintenar	nce to meet t	he pre	eservation requir	eme	ents associate	d wit	h all the infras	structu	ure ranging f	rom	headstones.	mark	ers.
prnamental fencing and grounds maintenance. This project	will provide	necessary fu	, nding	to complete pro	jects	s as well as loo	cal n	natch for lever	aging	state grant	fund	ls. This proje	ct is o	ategorized
as a helpful project.	•	,	0						0 0	Ũ				0
Parks & Recreation														
	E-4	mated Total		2021		2022		2023		2024		2025		2026
	ESTI	mated 10tal		2021		2022		2023		2024		2020		2020

Recommended Projected Projected Projected Projected Projected **General Park Improvements** \$ 5,481,000 \$ 900,000 \$ 1,000,000 \$ 900,000 \$ 640,000 \$ 1,190,000 \$ 851.000 This project provides funding for asset maintenance throughout the system as well as a complete renovation of one neighborhood park annually to meet the goals outlined within the BPR Master Plan and Capital Investment Strategy. The renovations typically include playground replacement, irrigation renovation, forestry maintenance, ADA compliance and shelter repairs. The current list of parks within the CIP include: 2021 -North Boulder Park

Cost

2022 - East Boulder Community Park

2023 - Martin Park

2024 - Parkside Park

2025 - Shanahan Ridge Park

2026 - Elmer's Two-Mile Park This project is categorized as important.

50,000 \$ 75,000 \$ Natural Lands Management 675,000 \$ 50,000 \$ 500,000 \$ \$ The department's natural lands team manages over 1,000 acres of wildlife and vegetation conservation areas to support the regions vulnerable ecosystems within urban areas. Capital funding

helps support planning and implementation of critical conservation measures and management strategies on the properties. In 2021, funding will provide an opportunity to partner with other department's in developing a comprehensive restoration and management plan for Boulder Creek to balance recreation and public use with maintaining the streams ecosystem which is critical to Boulder. In 2022, funding will allow for the replacement of a trail bridge at Coot Lake Natural Area that is in disrepair and in danger of failure if not replaced within the next year. In 2023, funding will allow the department to complete and inventory and prioritization of the department's populations of prairie dogs across the system to better manage the colonies aligned with the department's goals. In 2024, funding will allow the department to begin relocation of the prairie dogs at Valmont Park to allow for the next

phase of planned improvements. This project is categorized as "Important".

**Recreation Facility Capital Maint** \$ 1,030,000 \$ 30,000 \$ 500,000 \$ - \$ 500,000 \$ Based on recommendations of the 2016 Facility Strategic Plan and upcoming Recreation Needs Assessment, this program will provide annual capital funding for implementation of key facility repairs and renovations at the city's three recreation centers to ensure acceptable facility conditions and continue cost-effectively meeting the needs of health and wellness opportunities within Boulder. This project is combined with funding from the Facilities and Asset Management (FAM) Division of Public Works. In 2021, exterior security cameras will be installed at all three recreation centers to increase safety outside the centers within the parking lots and discourage illegal activity outside of normal operating hours. In 2022, facility maintenance will be focused on the East

Boulder Community Center in conjunction with the planned improvements to the leisure pool. This project is categorized as helpful.

Urban Forest Management \$ 2,800,000 \$ 500,000 \$ 250,000 \$ 550,000 \$ 500,000 \$ 500,000 \$ 500,000 Trees are important assets to the community and provide many benefits to Boulder. In September 2013, Forestry staff discovered an Emerald Ash Borer (EAB) infestation within the city. The subsequent delimitation survey showed that EAB was well established within a corridor in central Boulder. Over the next 15 years, EAB management, including tree removal, tree replacement, wood disposal and pesticide treatments will have a significant direct budgetary impact to the city and private residents. The loss of tree canopy will have considerable economic, social, and environmental impacts for decades. In September of 2015, an Information Item detailing the Emerald Ash Borer management plan was presented to City Council.

As a result of the recent discovery of the Emerald Ash Borer (EAB), a response plan has been developed to slow the spread of the pest and maintain a safe community from the potential hazards

CIP-Capital Planning Studies Total	\$ 200,000 \$	200,000 \$	- \$	- \$	- \$	- \$	-
Master Plan Update	\$ 200,000 \$	200,000 \$	- \$	- \$	- \$	- \$	-

This project will provide funding for consultants and staff to complete a 5-year update to the department's master plan to ensure alignment of departmental programs, services and facilities to meet the needs and goals of the community. This project will include various research tools such as a recreation facilities and programs assessment, an updated community survey and outreach to all members of the community to analyze the mission and offerings of the department. A comprehensive historic and cultural plan will be completed in conjunction with this master plan update to provide for goals and recommendations to ensure the sustainability of the departments' historic and cultural assets over time. This project is categorized as important.

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### Current Focus for Capital Planning and Projects in the 2021 Capital Budget

The 2021 capital needs for the Police Department focus on replacement of high-dollar equipment as opposed to rolling stock as in the past few years. The following project is brought forward:

Bomb Squad Suit Replacement: The Boulder Police Department Bomb Team provides regional response to all of Boulder County and City of Longmont and responds to over 100 calls per year. Approximately 6% require the use of the bomb suit. The bomb squad suits are unfunded and will have an estimated replacement cost of \$40,000 each. The suits were last replaced around 2008-2010 and the life expectancy of a typical suit is five years. The department needs two suits immediately and two more in the near future. One of our previous suits was purchased for us by the University of Colorado Environmental hazardous material division as compensation for all the money the bomb team saves them by disposing of their explosive laboratory chemicals. We may be able to investigate the possibility of them funding a third or fourth suit. Becasue the suits are expired by at least double the recommended useful life, this is a critical need for the Police Department.

#### **2021 Capital Projects**

Bomb Squad Suit Replacement

#### 2021 Project Delays and Cuts

Since the Bomb Squad Suits are currently 10 to 12 years old which is over twice the typical life expectancy, if the suits are not replaced, they could pose a critical life-threatening safety failure to bomb response staff.

#### 2020 Adjustments (if applicable)

Although no 2020 capital projects have been adjusted due to COVID-19, our 2019 project, Incident Command Vehicle, which was not yet started, has been deferred in 2020 and may once again be deferred in 2021, depending on required budget reductions.

#### **Operating and Maintenance Impacts**

The only operating impact is the ongoing replacement amounts needed for future bomb suit replacement \$16,800 annually.

### **Police Capital**

### **Unfunded Projects and Emerging Needs**

In the future, BPD will incorporate new initiatives into the planning and budget processes as city resources allow. Examples include: upgrading technology to improve response times and increase efficiency; and expanding the Public Safety Building to better accommodate staffing and technology needs.

- Public Safety Building 1st Floor Tile Replacement: The tile floor on the first floor of the Public Safety Building is over 30 years old, dated-looking and is showing much wear and tear. Not only is the floor showing wear, some of the tiles are cracked while some are coming up and need to be replaced. Replacing the first-floor tiles will require less ongoing maintenance and give the first floor a consistent and more updated look.
- Public Safety Building Expansion and Renovation. Construct a 25,000 square-foot expansion for Police functions, along with associated renovations to the existing facility. The renovation would focus on net zero, generating its required energy from an on-site solar system. This will provide many opportunities to leverage financial incentives such as rebates, production incentives for the solar system, or even tax credits (captured by a partner with tax liability and passed through to the city). These financial incentives can cover as much as 50% of the incremental cost that is required to go above the minimum energy code requirements. Estimated cost \$25 million to \$30 million.
- Bomb Robots. The current bomb robots were purchased in 2012. The current replacement fund has approximately \$100,000 towards the replacement. The actual costs for replacement will fall between \$400,000 and \$635,000. This is an underfunded project.

The Police Department has no short or long-term emerging capital needs related to COVID-19 and related revenue loses.

**CEAP Projects** N/A

**Board Action** N/A

### 2021-2026 Capital Improvement Plan

Police													
	Estin	nated Total Cost	2021 Recommen	ded	2022 Projected		2023 Projected		2024 Projected	I	2025 Projected		2026 Projected
Capital Program Total	\$	80,000	\$ 80	,000 \$	\$	-	\$	-	\$	-	\$	-	\$
CIP-Capital Enhancement Total	\$	80,000	\$ 80	,000 \$	5	-	\$	-	\$	-	\$	-	\$
PD Bomb Squad Suits	\$	80,000	\$ 80	,000 \$	5	-	\$	-	\$	-	\$	-	\$

BFCR Category: Essential. The Boulder Police Department Bomb Team provides regional response to all of Boulder County and City of Longmont and responds to over 100 calls per year. Approximately 6% require the use of the bomb suit. The bomb squad suits are unfunded and will have an estimated replacement cost of \$40,000 each. The suits were last replaced around 2008-2010 and the life expectancy of a typical suit is five years. The department needs two suits immediately and two more in the near future. One of our previous suits was purchased for us by the University of Colorado Environmental hazardous material division as compensation for all the money the bomb team saves them by disposing of their explosive laboratory chemicals. We may be able to investigate the possibility of them funding a 3rd or 4th suit. Because the suits are expired by at least double the recommended useful life, this a critical need for the Police Department.



### Current Focus for Capital Planning and Projects in the 2021 Capital Budget

The projects that have been included in the Transportation Capital Improvement Program were selected and developed to implement Transportation Master Plan (TMP) investment policies and principles identified under Initiative 10 of the 2019 TMP Update "Funding the Transportation System". The key investment principles include the following:

- Maintain and operate the existing, valuable multi-modal system, including investments in safety
- As additions are made to the system, address ongoing operation and maintenance needs
- Continue to advance innovations in the design, construction, operation, and maintenance of the system
- Strategically enhance the Complete Street network, prioritizing projects that have maximum impact improving safety, mobility, and efficiency
- Advance corridor studies integrating the city's Sustainability Framework and resiliency strategy
- Leverage external funds extending the ability of local dollars to implement city goals. Continuously strive for efficiency and effectiveness in how work is accomplished Assure budget decisions are sustainable over time
- Keep in mind the goal of identifying long-term, sustainable funding that is tied to vehicle use

The 2019 TMP Update also identified the need to prioritize investment in the existing transportation system to preserve existing infrastructure as well as safety. An key area of focus within the TMP is the new Low-Stress Walk/ Bike Network, which consists of vertically separated infrastructure, buffered infrastructure and neighborhood green streets. As the Low-Stress Walk/Bike Network and other key TMP initiatives are consistent with the 2019 TMP, the goal of each CIP project and program is to improve safety for all users of the transportation system, including pedestrians, cyclists, transit users, and vehicles. Each of these components are a focus within the individual CIP projects as well as multi-modal CIP programs. One example of this in the program portion of the CIP includes the Neighborhood Speed Management Program (NSMP), which was a renewed focus area beginning in 2017, and continues as part of the 2021-2026 portfolio.

### **Transportation Capital**

Additionally, CIP line items that were created in the 2020 CIP will carry forward in the 2021-2026 program which include capital funding for implementation of the Low-Stress Walk/Bike network (aka neighborhood greenstreets), intersection and crossing safety improvements as part of Vision Zero, and transit infrastructure improvements in fulfillment of the Renewed Vision for Transit.

The COVID-19 pandemic has significantly impacted the Capital Improvement Program for Transportation. Because the Transportation Fund is largely sales tax dependent, the fund is expected to see a 20% or greater reduction for 2020 and 2021. Staffing and budget reductions combined have notably limited the ability of projects and programs to be funded, managed and implemented. Several transportation projects have external grant funding, and staff are working with these partners to obtain scheduling extensions to allow city budgets and staffing to stretch out to match the demands of each project. Annual major capital maintenance programs have also been reduced for 2021 in response to reduced funding.

### 2021 Capital Projects

- Intersection Safety Projects
- HSIP/VZ Traffic Signal Reconstruction
- Pavement Management Program
- Downtown Boulder Transit Station Improvements
- Arapahoe Multi-Use Path/Transit Enhancements
- Mesa Elementary SRTS
- Major Capital Reconstruction
- Traffic Signal Broadband Fiber
- Sidewalk Maintenance
- CMPI Ped Crossing Treatments
- 47<sup>TH</sup>/BNSF Sidewalk Crossing

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### 2020 Adjustments

In response to the reduction on Transportation Fund Revenue due to the COVID-19 pandemic, a number of projects and programs have been adjusted. The following are of projects

- Postponed 6th / 9th Bridge Deck Repairs
- Delayed one NSMP Complex Project
- Deferred Low Stress Walk/Bike Project
- Delay Deficient Street Light Replacement
- Reduced Multi-Use Path Maintenance Projects

### **Operating and Maintenance Impacts**

Each of the projects included in the current Transportation CIP will improve operational and/or maintenance conditions and needs. For example, the HSIP/VZ Traffic Signal Reconstruction project will improve operations, safety and reduce maintenance demands on staff because the infrastructure and technology will be new. Also, the Pavement Management Program repaves miles of city streets each year, which reduces the need to fill potholes by city maintenance crews. Major portions of CIP expenditures are focused on preservation of the system, which reduces costly total replacements of facilities and extends infrastructure service life at optimal timing intervals

### **Transportation Capital**

### **Unfunded Projects and Emerging Needs**

The Transportation division has a number of unfunded projects identified in the Transportation Master Plan (TMP). These projects range from reconstructing existing underpasses and bridges, reconstructing aging streets, completing missing links of sidewalks and multi-use paths. Transportation has historically used an opportunistic approach to fund major rehabilitation, reconstruction, and enhancement projects by taking advantage of external grant funding opportunities. Transportation will continue to use an asset management/ prioritization approach to taking on capital projects. This includes optimizing investments in the system in a manner that is fiscally prudent and consistent with the TMP.

Transportation funding is limited and highly dependent on sales tax. Sales tax revenue accounted for 80 percent of the \$32.8 million local transportation budget (not including federal funds) in 2018. Transportation's dedicated sales tax revenue is not keeping up with inflation, resulting in declining purchasing power. Even with 78 percent of our expenditures going to essential operations and maintenance, we are still deferring maintenance, which is more costly over time. Outside of local funding, the city is facing increased competition for regional, state and federal funding. A needs assessment evaluated all areas of transportation's essential services in the community, including capital maintenance and the Capital Improvement Program (CIP). This assessment identified \$20.8 million in one-time capital expenditures.

### *Key Unfunded Projects Include:*

- Large portions of the Low/Stress Walk and Bike Network
- A number of segments from the 30th Street and Colorado Avenue Corridor Complete Street Plan.
- The East Arapahoe Transportation Plan has identified key improvements for investment that should be prioritized in coming years.
- Canyon Boulevard Complete Streets investments currently have no identified funding.



### **Transportation Capital**

#### **CEAP Projects**

Downtown Boulder Transit Station Improvements: This project will expand the number of bays along Canyon Boulevard and 14th Street and adjacent to the Downtown Boulder Transit Station. This project is in fulfillment of the Renewed Vision for Transit goals and is funded in part by federal grant funds.

Arapahoe Multi-Use Path/Transit Enhancements: This project will upgrade existing and missing sidewalk sections to a multi-use along Arapahoe between Foothills and Cherryvale. It will also enhance existing transit stops and access along the corridor. This project is consistent with the Transportation Master Plan and the East Arapahoe Transportation Plan goals and is funded in part by federal grant funds.

#### **Board Action**

The Transportation Advisory Board (TAB) recommended approval of the draft 2021-2026 Capital Improvement Program on July 13, 2020.

### 2021-2026 Capital Improvement Plan

	Est	imated Total Cost		2021 commended	Р	2022 rojected	I	2023 Projected		2024 Projected		2025 Projected	2026	Projected
apital Program Total	¢	82,353,396	¢	12,263,869	~	47 629 444	¢	15,392,000	¢	12,433,333	*	12,542,250	¢	12,083,50
P-Capital Enhancement Total	5 \$	58,248,063		9,383,869	-	9,718,444	_		् \$	8,870,000	_	9,291,250		8,822,50
7TH/BNSF Sidewalk	ş	636,250			φ \$		پ \$	12,102,000			چ \$	508,750		0,022,50
rroject includes pedestrian improvements tesilience Classification: Important	Ŷ	000,200	•		•		•	121,000	•		•	000,100	•	
rapahoe Multi-Use Path/Transit Enh		1,900,000		288,000		,		1,325,000		-	\$		\$	
his project will upgrade existing and missing sidewalk section his project is consistent with the Transportation Master Plan tesilience Classification: Important											isur	ig transit stops	and access	along the corrido
owntown Boulder Transit Station Im	\$	982,000	\$	226,969	\$	-	\$	755,031	\$	-	\$	-	\$	
his project will expand the number of transit bays along Cany oals and is funded in part by federal grant funds.	yon Boule	vard and 14th	Stree	t and adjacent	to the	e Downtown	Bou	Ilder Transit S	statio	on. This proje	ct is	in fulfillment c	fRenewed	Vision for Transit
Resilience Classification: Important														
MPI Crossing Treatments	\$	291,000	\$	291,000	\$	-	\$		\$	-	\$	-	\$	
esilience Classification: Essential														
ourmile Canyon Creek CCS Construction of a multi-use path underpass at 19th Street and Ilementary School for pedestrians and bicyclists. It also provi	des impro	ved vehicular	g Four acces	s on 19 th Str	Creek. reet, v		t rep							
Courmile Canyon Creek CCS Construction of a multi-use path underpass at 19th Street and lementary School for pedestrians and bicyclists. It also provi ood improvements. This project is categorized as "Essential"	l path conr des impro	nections along	g Fourn acces r Resil	mile Canyon C is on 19 th Str	Creek. reet, w ork.	This project	t repl merg		rout		ajor		Capital tax f	unding is for non-
ourmile Canyon Creek CCS construction of a multi-use path underpass at 19th Street and lementary School for pedestrians and bicyclists. It also provi ood improvements. This project is categorized as "Essential" ireenways Program Transportation his project will provide Transportation's contribution to the ov ith funding from the Transportation and Utilities Fund. This p	I path conr des improv ' using the s verall gree	nections along ved vehicular Budgeting fo 682,500 nways progra	g Fourn acces r Resil <b>\$</b> m. Fu	mile Canyon C is on 19 th Str ience framewo <b>97,500</b> inding will be o	Creek. reet, w ork. \$	This project which is an e 97,500	t repl merg	gency access 97,500	rout	ie, during a m 195,000	ajor \$	storm event. 97,500	Capital tax f \$	unding is for non- 97,50
Fourmile Canyon Creek CCS Construction of a multi-use path underpass at 19th Street and Elementary School for pedestrians and bicyclists. It also provi iood improvements. This project is categorized as "Essential" Greenways Program Transportation This project will provide Transportation's contribution to the ow vith funding from the Transportation and Utilities Fund. This p ttps://bouldercolorado.gov/water/greenways-program	I path conr des improv ' using the s verall gree	nections along ved vehicular Budgeting fo 682,500 nways progra	g Fourn acces r Resil <b>\$</b> m. Fu	mile Canyon C is on 19 th Str ience framewo <b>97,500</b> inding will be o	Creek. reet, w ork. \$	This project which is an e 97,500	t repl merg	gency access 97,500	rout	ie, during a m 195,000	ajor \$	storm event. 97,500	Capital tax f \$	unding is for non- 97,50
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burmile Canyon Creek CCS onstruction of a multi-use path underpass at 19th Street and lementary School for pedestrians and bicyclists. It also provi sood improvements. This project is categorized as "Essential" reenways Program Transportation his project will provide Transportation's contribution to the ov th funding from the Transportation and Utilities Fund. This p tps://bouldercolorado.gov/water/greenways-program esilience Classification: Important SIP/VZ Baseline/Canyon provement to existing Baseline and Canyon Creek pedestri esilience Classification: Essential	I path conr des improv using the verall gree project is fo \$	ections along ved vehicular Budgeting fo 682,500 mways progra or an ongoing 192,243	s r Resil m. Fu fundin \$ n Visio	mile Canyon C is on 19 th Str ience framewo <b>97,500</b> inding will be o ig program.	sppport	This project vhich is an e <b>97,500</b> tunistic and p	t repl merç \$ priori	97,500 itized with the	s s	te, during a m 195,000 er funding in t	ajor \$ he (	97,500 Greenways CIF	S \$ C. These fun	unding is for non- 97,50
Courmile Canyon Creek CCS Construction of a multi-use path underpass at 19th Street and Clementary School for pedestrians and bicyclists. It also provio ood improvements. This project is categorized as "Essential" Freenways Program Transportation This project will provide Transportation's contribution to the ow with funding from the Transportation and Utilities Fund. This p Https://bouldercolorado.gov/water/greenways-program tesilience Classification: Important HSIP/VZ Baseline/Canyon mprovement to existing Baseline and Canyon Creek pedestri Resilience Classification: Essential HSIP/VZ Traffic Signal Reconstructi Project:Traffic Signal Reconstruction projects to facilitate goal	I path conr des impro- using the s verall gree roject is for an crossin \$	ections along ved vehicular Budgeting fo 682,500 nways progra or an ongoing 192,243 g to align with 1,024,670	s r Resil m. Fu fundin \$ v Visio	mile Canyon C is on 19 th Str ience framewo <b>97,500</b> inding will be o ing program.	Creek. eet, w ork. \$ opport \$	This project           97,500           uunistic and p           17,477           102,467	t repl merç \$ poriori	97,500 itized with the 174,766 922,203	rout \$ othe \$	e, during a m	ajor \$ he ( \$	storm event. 97,500 Greenways CIF	\$ ?. These fun \$	unding is for non- 97,50
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### **Transportation Capital**

### 2021-2026 Capital Improvement Plan

This program will provide funding toward implementation of the low Resilience Classification: Important Mesa Elementary Safe Routes to Scho		425,000	Ψ	50,000	\$ 75,00	0\$	75,000	\$	75,000	\$	75,000	\$	75,000
Masa Elementary Safe Doutes to Scho	v-stres:	s walk/bike r	networ	k including Nei	ghborhood Gre	en Str	eets.		·		÷		
	\$	342.000	¢	342.000	\$	- \$		\$	_	\$		\$	
This project will improve walking and biking routes to Mesa Element project is funded in part by Safe Routes to School grant funds.									and construc	-	- a pathway ne		k elementary. This
Resilience Classification: Essential													
Misc Development Coordination	\$	300,000	\$	50,000	\$ 50,00	0\$	50,000	\$	50,000	\$	50,000	\$	50,000
This ongoing funding is intended to construct infrastructure improv improvements required in the vicinity of a proposed development s typically included are bike and pedestrian, functional efficiency, sa development. A major goal in the Transportation Master Plan is to In the near term, the money will be used for issues that arise durin are not known at this time.	should fety, sy o create	be made at t /stem preser e an integrate	the sar vation ed mul	me time as the , and transit sy ltimodal system	development, stem improven and one that	and for nents. s supp	which a deve This project is portive of land	eloper s grow use p	cannot be r /th related b atterns.	equir ecau:	ed to constru se it address	ct. Improver es needs froi	nents that are n new
Resilience Classification: Essential													
Transportation													
	Estir	nated Total		2021	2022 Drojectod		2023 Drainated	-	2024	_	2025	2026	Projected
Neighborhood Speed Management Progr	\$	Cost 1,600,000	Rec \$	ommended 250.000	Projected \$ 250,00		Projected 275,000	91 \$	rojected 275,000	<u>Р</u>	275,000	\$	275,000
NSMP is a resident-initiated process with neighbors applying to the neighborhoods each year to identify the best speed management s and enforcement are effective tools to address speeding. Some ne	strateg	y for each lo	cation	. For some neig	ghborhoods, eo	lucatio	n						
Pavement Management Program The City of Boulder's budget priorities for transportation funding ar		29,500,000	<u> </u>	4,775,000			4,850,000		4,900,000		5,000,000		5,125,000
The Pedestrian Facilities budget is an ongoing funding program that			allatior		ewalk links an	d pede		g/safe		ts and		social paths a	
The Pedestrian Facilities budget is an ongoing funding program the widening improvements. The list of identified missing sidewalk link crosswalk lighting, flashing signs, neck-downs, signing, lighting an This program meets the Transportation Master Plan goal of creatin beginning and end of every travel trip.	at inclu ks has d/or pe	ides the inst been prioriti destrian sig	allatior zed for nals.	n of missing sic r construction.	ewalk links an Crossing treat	d pede nent ir	strian crossin nprovements	g/safe are pr	ty treatment ioritized city	ts and wide	d potentially s and include	social paths a median refug	and sidewalk e islands,
The Pedestrian Facilities budget is an ongoing funding program the widening improvements. The list of identified missing sidewalk link crosswalk lighting, flashing signs, neck-downs, signing, lighting an This program meets the Transportation Master Plan goal of creatir beginning and end of every travel trip. Resilience Classification: Essential	at inclu ks has d/or pe	ides the inst been prioriti destrian sig	allatior zed for nals. ultimor	n of missing sic r construction.	ewalk links an Crossing treat	d pede ment ir hasizi	strian crossin nprovements	g/safe are pr the pe	ty treatment ioritized city	ts and wide ode as	d potentially s and include	social paths a median refug mode of trav	and sidewalk e islands, vel as it is the
The Pedestrian Facilities budget is an ongoing funding program the widening improvements. The list of identified missing sidewalk link rorsswalk lighting, flashing signs, neck-downs, signing, lighting am This program meets the Transportation Master Plan goal of creatin beginning and end of every travel trip. Resilience Classification: Essential <b>Renewed Transit Vision - Capital El</b> This program will provide capital maintenance and upgrades to tra	at inclu ks has d/or pe ng an ir <b>\$</b>	ides the inst been prioriti destrian sig ntegrated, m 210,000	allatior zed for nals. ultimoo <b>\$</b>	n of missing sic r construction. dal transportati	ewalk links and Crossing treat on system emp \$ 25,00	d pede ment ir hasizi	strian crossing nprovements ng the role of	g/safe are pr the pe	ity treatment ioritized city	ts and wide ode as	d potentially s and include s the primary	social paths a median refug mode of trav	and sidewalk e islands, vel as it is the
The Pedestrian Facilities budget is an ongoing funding program the widening improvements. The list of identified missing sidewalk link crosswalk lighting, flashing signs, neck-downs, signing, lighting an This program meets the Transportation Master Plan goal of creatin beginning and end of every travel trip. Resilience Classification: Essential <b>Renewed Transit Vision - Capital El</b> This program will provide capital maintenance and upgrades to tra Resilience Classification: Important	at inclu ks has d/or pe ng an ir <b>\$</b>	ides the inst been prioriti destrian sig ntegrated, m 210,000	allatior zed for nals. ultimod <b>\$</b> the cit	n of missing sic r construction. dal transportati	ewalk links an Crossing treat on system emp \$ 25,00 n network.	d pede ment ir hasizi 0 \$	strian crossing nprovements ng the role of	g/safe are pr the pe \$	ty treatmeni ioritized city edestrian mo 50,000	ts and wide ode as	d potentially s and include i s the primary <b>50,000</b>	social paths a median refug mode of trav	and sidewalk e islands, vel as it is the
The Pedestrian Facilities budget is an ongoing funding program the widening improvements. The list of identified missing sidewalk link rorsswalk lighting, flashing signs, neck-downs, signing, lighting am This program meets the Transportation Master Plan goal of creatin beginning and end of every travel trip. Resilience Classification: Essential <b>Renewed Transit Vision - Capital El</b> This program will provide capital maintenance and upgrades to tra Resilience Classification: Important <b>Fable Mesa Multi-Modal Improvements</b> This project will upgrade the existing sidewalk along Table Mesa/S between the Park and Ride and transit stop on each side of US36.	at inclu ks has d/or pe ng an ir \$ nsit fac \$ South B	ides the inst been prioriti; idestrian sign tegrated, m 210,000 cilities within 5,500,000 coulder Road	allatior zed for nals. ultimoo \$ the cit \$ I bridge	n of missing sic r construction. dal transportati - ty transportatio - e over US-36.	ewalk links and Crossing treat on system emp \$ 25,00 n network. \$ 2,500,00 The sidewalk to	d pede ment ir hasizi 0 \$ 0 \$ vill be	strian crossin nprovements ng the role of 35,000 3,000,000 updated to a r	g/safe are pr the pe \$ \$ multi-u	ty treatment ioritized city edestrian mo 50,000 - 	s and wide ode as \$ \$ pedes	d potentially s and include s the primary 50,000 strians and c	social paths a median refug mode of trav \$	Ind sidewalk e islands, vel as it is the 50,000
The Pedestrian Facilities budget is an ongoing funding program the videning improvements. The list of identified missing sidewalk linh rosswalk lighting, flashing signs, neck-downs, signing, lighting and his program meets the Transportation Master Plan goal of creating eginning and end of every travel trip. Resilience Classification: Essential Renewed Transit Vision - Capital El This program will provide capital maintenance and upgrades to tra Resilience Classification: Important Table Mesa Multi-Modal Improvements This project will upgrade the existing sidewalk along Table Mesa/S between the Park and Ride and transit stop on each side of US36. Resilience Classification: Important TIP Local Match/TMP Implementation	at inclu ks has d/or pe ng an ir \$ nsit fac \$ South B . This p \$	Ides the inst been prioriti destrian sign tegrated, m 210,000 Silities within 5,500,000 ioulder Roac project is con 10,923,520	allatior zed for nals. ultimod \$ the cit \$ I bridgensister \$	n of missing sic r construction. dal transportati ty transportatio e over US-36. tt with Transpo 758,520	ewalk links and Crossing treat on system emp <u>\$ 25,00</u> n network. <u>\$ 2,500,00</u> The sidewalk n tration Master I <b>\$ 915,00</b>	d pede ment ir hasizi hasizi 0 \$ 0 \$ vill be Plan go 0 \$	strian crossin nprovements ng the role of 35,000 3,000,000 updated to a r bals and is fur 350,000	g/safe are pr the pe \$ s nulti-u nded in \$	ty treatment ioritized city adestrian mo 50,000 ise path for n part by fec 3,000,000	s and wide ode a: \$ pede: leral §	d potentially s and include n s the primary 50,000 strians and c grant funds. 2,900,000	social paths a median refug mode of trav \$ yolist to impr \$	Ind sidewalk e islands, vel as it is the 50,000 ove mobility 3,000,000
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Ped Facs Enh Missing Links Crossing         The Pedestrian Facilities budget is an ongoing funding program the widening improvements. The list of identified missing sidewalk link rosswalk lighting, flashing signs, neck-downs, signing, lighting an This program meets the Transportation Master Plan goal of creatine beginning and end of every travel trip.         Resilience Classification: Essential         Renewed Transit Vision - Capital El         This program will provide capital maintenance and upgrades to transportation of a service cassification: Important         Table Mesa Multi-Modal Improvements         This project will upgrade the existing sidewalk along Table Mesa/S between the Park and Ride and transit stop on each side of US36. Resilience Classification: Important         TIP Local Match/TMP Implementation         This budget item allows flexibility to be ready to implement high pri best meet the DRCOG scoring criteria are submitted to compete fa and then submit the project list to council for their review prior to st Resilience Classification: Important	at inclu ss has d/or pe g an ir \$ nsit fac \$ South B N This p \$ nent pr ding for geated ir ority p por feder ubmittii	Ides the inst been prioriti idestrian signite grated, m 210,000 illities within 5,500,000 ioulder Roac project is con 10,923,520 ojects identi project subu h priority project subu h priority priorit	allatior zed for nals. ultimod the cit the cit sister fied in mitted piects i are ide Prior t ial fun \$	n of missing sic r construction. dal transportatio ty transportatio e over US-36. t with Transpot the Transpot the Transpot the transpot the duftified through of finalizing the ding. 100,000	ewalk links and Crossing treat on system emp <u>\$ 25,00</u> n network. <u>\$ 2,500,00</u> The sidewalk of tation Master I <u>\$ 915,00</u> tion Master I <u>\$ 915,00</u> tion Master I DRCOG TIP gh the TMP pro- rmal funding at the TMP updal list of projects <b>\$</b>	d pede nent ir hasizi 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	strian crossin nprovements ng the role of 35,000 updated to a r bals and is fur 350,000 will be prioriti al process or If the city suc city's match. was complete mit for DRCOO	g/safe are pr the pe \$ \$ multi-u nded in 2zed in zed in 2zed in 2zed in 2zed in 2zed in 2zed in 2zed in 2zed in 2zed in 2 x zed in 2 x z y	ty treatment ioritized city adestrian mo 50,000 ise path for n part by fec 3,000,000 the current funding mat is in acquiring 019. The hi funding, sta 200,000	s and wide ode at s pedet leral s upda cch op g exte ighes ff will	potentially s     and include i     s the primary     50,000     frians and c     grant funds.     2,900,000     te to the max     portunities, c     ernal project i     t priority proje	social paths a median refug mode of trav s s yclist to impr ster plan. Th developing co funds, this m ects identifier &B to identifier	Ind sidewalk e islands, vel as it is the 50,000 bove mobility 3,000,000 is money will also ponceptual plans for poney will become d in the TMP that
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The Major Capital Reconstruction project provides funding to repair existing transportation assets that are close to or at the end of their useful life. Repairs could be for roadway, bikeway, pedestrian or transit capital assets. This funding is primarily focused on improving the health of minor structures and bridges. This funding will provide the ability to complete the capital repairs that are not eligible for grant funding or to be used as leveraged funds for this type of project as opportunities arise.

## **Transportation Capital**

### 2021-2026 Capital Improvement Plan

The City of Boulder's budget priorities for transportation funding a Transportation Division is charged with providing major maintenar		2,495,000	φ	350,000	\$ 425,	000 \$	425,000	)\$	425,000	\$	435,000	\$	435,000
ransportation Division is charged with providing major maintenar													
nd re-decking pedestrian overpasses. esilience Classification: Essential	nce to I	he off-street	multi-ı	use path netwo	ork. This bud	get ad	dresses activiti	es sı	ıch as replacir	g pane	els of concre	ete, flood pro	ofing underpasses
Ped Facilities Repair, Replace, ADA	\$	3,756,000	\$	579,000	\$ 629.	000 \$	629,000	\$	629,000	\$	640,000	\$	650,00
This ongoing program allows for repair, replacement and construct					1		,		,				,
Program and yearly funding is spent accordingly. Compliance wit This program meets the Transportation Master Plan (TMP) goal o he beginning and end of every travel trip. The program also mee nvestment policies identify maintenance as the highest priority ite Resilience Classification: Essential	f creati ts fede	ing an integra eral ADA requ	ated, n	nultimodal tran	sportation sy	stem, e	emphasizing th	e role	e of the pedes				
Transportation													
•	Esti	imated Total		2021	2022		2023		2024		2025	2026	Projected
	_	Cost		commended	Projecte		Projected		Projected		ojected		
Rehab Runway & Eastern Taxiway Project includes subgrade stabilization, re-paving and re-painting	\$	-	Ŧ		\$	- \$		- \$		\$	-		
the only runway for powered aircraft and essential for operations a Master Plan CIP schedule. The project is funded 93% by federal		ate grant pro	ceeds.										
Sidewalk Maintenance	\$	1,506,000		251,000	,	000 \$	,		251,000		251,000		251,00
The City of Boulder's budget priorities for transportation funding a condition. The Sidewalk Maintenance budget funds the Miscellane sidewalks adjacent to their property, with no out of pocket maximu Resilience Classification: Essential	eous S	idewalk Repa	air Pro	gram which s									
Signal Maintenance & Upgrade The Signal Maintenance and Upgrade project is an on-going prog	\$ ram th	400,000 at is used for		- stallation of ne		000 \$ als and	,		- Budgeting as a	\$ capital	- I project at \$	<b>\$</b> \$400,000 ev	ery four years as
opposed to budgeting one-quarter of this amount every year is consistent with the project implementation, as this is intersection.	appro	ximately the	cost to	o signalize or u	pgrade one								
The Decision to Install a new tradic stonal is made on the basis of		ai warrant sti	ıdv wl	hich uses data	collected at t	the stu	dv						
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TIP Local Match TMP Implementation	\$	4,200,000	\$	750,000	\$	600,000	\$	600,000	\$	750,000	\$	750,000	)\$	750,000
This ongoing funding is for the implementation of projects identifie	d in th	e Transporta	tion M	laster Plan (TN	ЛP)	that will be pr	ioritiz	ed in the curr	rent	update to the	Mast	er Plan. Tl	nis mone	y will also be used as
local match to leverage potential federal and														
state funding for project submitted in future years' Denver Regiona	al Cou	ncil Of Gover	nmen	ts (DRCOG) T	rans	sportation								
Improvement Program (TIP) submittal process (the next process s	starts in	n 2018 with f	unding	available for	2019	9/2020) or oth	er							
funding match opportunities, developing conceptual plans for proje	ects pr	ior to submitt	ing fo	r possible exte	ernal	I funding or for								
smaller high priority projects identified through the TMP process. I	f the c	ty succeeds	in acq	uiring externa	l pro	ject funds, this	S							
money will become the city's funding match. And, in this case, new	<i>w</i> proje	cts will be cr	eated	in the CIP that	t will	l include the					lat a Direct			
external funding and the city's match										100 E	~	EVERATE CONTRACTOR STRUCTUR 6 RESOLIC BUT THROOS BUT		
										E.07				ompleted is 2010



# **Utilities & Greenways**

#### Current Focus for Capital Planning and Projects in the 2021 Capital Budget

#### Water Utility

The capital improvements focus for the Water Utility continues to be on rehabilitation and replacement of existing assets and addresses a combination of source water and treated water needs. The source water needs will include several large capital projects like the Barker Gravity Line rehabilitation. The Barker Supply system represents one of two major water supply pipelines to the Betasso Water Treatment facility. This project involves the rehabilitation of approximately 12 miles of raw water pipeline between Barker Reservoir and Kossler Reservoir and is estimated to be completed over a 12-year period. Additional source water projects include Albion Dam, and the Barker Dam Outlets works.

The capital improvements focus for the treated water system includes water treatment plant (WTP) needs as well as water distribution system needs. Both the Boulder Reservoir and Betasso treatment plants have major asset management related rehabilitation project needs. The Boulder Reservoir Water Treatment Plant has a large capital rehabilitation project identified in the six-year CIP called the 63<sup>rd</sup> Street Electrical Upgrades and High Service Pump Station Replacement project. This project includes the replacement of medium voltage electrical components that are at the end of their useful life. The project also includes the replacement of the facility's six high service pumps which pump treated water from the plant into the city's water distribution system. The Betasso Water Treatment Plant recently underwent major upgrades the past two years to address aging facilities, but additional investment is still required. The six-year CIP includes four major projects to address aging infrastructure and lack of critical treatment process redundancy. These projects will address the disinfection system, the corrosion control system, the backwash system, and the raw water supply system to the facility. These four process components will likely be combined into two large capital projects.

The water distribution system needs include the ongoing small diameter water line rehabilitation program which involves the replacement of approximately four miles of pipe (1% of the system) annually. This program is funded at approximately \$3.5 million per year. In 2020, Utilities staff began a comprehensive evaluation of the water transmission system which is comprised of the system's larger pipes. This analysis will provide information on the 65 miles of the system's larger diameter pipes and will include recommendations for future rehabilitation projects.

#### Wastewater Utility

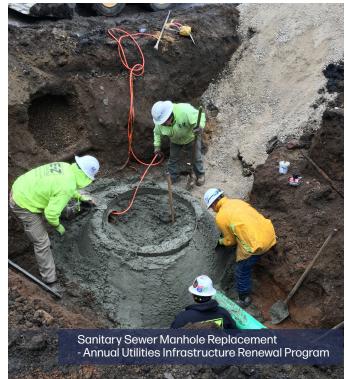
The capital improvements focus for the Wastewater Utility continues to be on rehabilitation and replacement of existing assets as well as meeting current regulatory requirements. The Wastewater Utility priorities address a combination of wastewater collection system needs as well as capital projects at the Water Resource Recovery Facility (WRRF).

The 2017 Wastewater Collection System Master Plan (WWCSMP) identified four high priority (Tier 1) projects that were recommended to address larger diameter sewers with hydraulic limitations. Three of the four projects have funding identified in the six-year CIP. The largest of these projects is the realignment of the city's main interceptor sewer between 63rd Street and the WRRF. The Interceptor sewer project, which is estimated at \$45-\$50 million, has cash funding of \$10 million and has been identified for a revenue bond in 2022 for an additional \$35-\$40 million. Other high priority WWCSMP projects include the Goose Creek Trunk sewer project and the Baseline & Foothills Trunk sewer project.

The largest WRRF capital project identified in the six-year CIP involves a nutrient removal project to address effluent phosphorus regulations that are expected to be part of the upcoming CDPHE permit to meet Regulation 85. Other projects include the Process Automation System (PAS) Phase II instrumentation and controls project and a new secondary digester cover. It is anticipated that Utilities will bond approximately \$20-\$25 million in 2023 for the projects' construction phase.

The focus for the wastewater collection system will continue on the current sewer rehabilitation program with the goal of rehabilitating or replacing all vitrified clay pipe (VCP) sewers as well as addressing the system's hydraulic limitations identified in the 2017 Wastewater Collection System Master Plan (WWCSMP). The rehabilitation effort is in its fifth year of an ongoing program with a projected 20-year duration. The rehabilitation program utilizes a trenchless technology approach to line the sewers before they collapse. Those sewer pipe sections which cannot be lined are replaced by conventional construction through the open cut program.





### Stormwater & Flood Management Utility

The capital improvements focus for the Stormwater and Flood Management Utility will address a combination of flood mitigation projects as well as storm sewer improvement projects.

Major flood mitigation projects identified in the six-year CIP include Gregory Canyon Creek, Fourmile Canyon Creek, and South Boulder Creek. The Gregory Canyon Creek Improvements project will include two phases with the first in design this year. Gregory Canyon Creek Phase I construction funding is identified in the six-year CIP in 2022 at approximately \$8 million. This project, which will provide drainageway improvements to convey the 10-year storm event. This phase will provide improvements between Arapahoe Avenue and Pennsylvania Avenue. The project's second phase is identified outside the 6-yr CIP.

The Fourmile Canyon Creek project will involve improvements at various locations between Broadway Avenue and 19th Street, Utilities staff is coordinating with Transportation staff on the design and construction funding for these projects.

The South Boulder Creek Phase I flood mitigation improvements are identified in the six-year CIP in 2024 at an estimated cost of \$66 - \$96 million. This project will involve the construction of a detention facility on the south side of Hwy US 36 to prevent flood waters overtopping the highway and will provide the protection of approximately 1,900 structures located downstream. The South Boulder Creek Mitigation Plan was completed in 2015. It is anticipated that City Council will provide direction to city staff on the level of flood protection at the June 16, 2020 meeting. Funding has been identified for the project's preliminary and final design phases in the 6-yr CIP.

Flood mitigation plans are anticipated to be completed in 2020 for Upper Goose Creek, Twomile Creek, Skunk Creek, King's Gulch, and Bluebell Creek. These plans will help identify future flood mitigation projects.

Capital improvements for the stormwater collection system will focus on expansion of the system into underserved areas and capacity improvements to address hydraulic limitations identified in the 2017 Stormwater Master Plan (SMP). Specific projects will include an expansion of storm sewer system in the vicinity of Pearl Street from 17th Street to 21st Street. The six-year CIP includes approximately \$4 million in 2021 for this project. Another high priority project involves drainageway improvements and the expansion of the storm sewer system in the upper Goose Creek basin. Open channel improvements have been identified for the reach between 19th Street and Folsom Avenue for an existing section of unimproved channel located behind the homes along Edgewood Avenue. The 2017 SMP identified the Upper Goose Creek basin as the highest Tier 1 priority. This project would involve construction of new storm sewers and the upsizing of existing storm sewers located between 4th Street and 19th Street. The open channel and storm sewer components will be combined into a single project to address localized flooding in the area. The Upper Goose Creek Storm and flood project is funded in 2024 at \$25 million.

Rates	2020	2021	2022	2023
Water	7%	8%	8%	6%
Wastewater	5%	5%	5%	5%
Stormwater/Flood Management	7%	12%	12%	12%

### Recommended Utility Rates for 2021

Single-Family Residential Monthly Bill Impact

	Monthly Bill 2020 Rates	Monthly Bill 2021 Rates	Monthly Difference
Water	\$41.72	\$45.05	\$3.33
Wastewater	\$37.45	\$39.32	\$1.87
Stormwater	\$17.54	\$19.64	\$2.10
Total	\$96.71	\$104.01	\$7.30

#### Greenways

The primary focus of the 2021-2026 Greenways CIP is on flood mitigation, bicycle and pedestrian multi-use paths, and habitat and water quality improvements along Gregory Canyon, Skunk, Twomile Canyon, and Goose Creeks in anticipation of future major drainageway improvements along these corridors. For more information about the timing and details of these projects, please see the Utilities -Stormwater/Flood web page: https://bouldercolorado.gov/flood/the-creeks-of-boulder-co.

A secondary focus for the 2021-2026 Greenways CIP is for habitat restoration and streambank stabilization projects along the Greenways corridors. Many streambank areas are degraded, eroding, and in need of restoration. The loss of ash trees, due to Emerald Ash Borer (EAB), has exacerbated this situation. Restoring the degraded streambanks also improves water quality, helps restore the urban tree canopy and supports pollinators and other native species. Funding is also being allocated in 2022 for an update to the Greenways Master Plan, last updated in 2011.

#### **2021 Capital Projects**

#### Water Utility

- Barker Gravity Line Rehabilitation
- Barker Dam Outlet Works Rehabilitation
- Albion Dam Rehabilitation
- 63<sup>rd</sup> Street Electrical Upgrades & High Service Pump Station Replacement
- Betasso Disinfection & Corrosion Control Improvements
- Betasso Supply & Backwash System Improvements
- Large Meter & Vault Replacement project

#### Wastewater Utility

- Interceptor Sewer Realignment Project
- Goose Creek Trunk Sewer Project
- Baseline & Foothills Trunk Sewer Project
- Sanitary Sewer Annual Lining program
- Water Resource Recovery Facility (WRRF) Phosphorus Project
- Process Automation System (PAS) Phase II project
- Digester Cover Replacement

#### Stormwater & Flood Management Utility

- Gregory Canyon Creek Phase I Improvements
- Fourmile Canyon Creek Improvements (Broadway, 19th Street)
- South Boulder Creek Phase I Improvements
- Stormwater Drainage Improvements

### 2020 Adjustments (if applicable)

Due to unknowns related to the impact that the COVID-19 pandemic will have on Utility finances, the following 2020 projects have been put on hold as revenues will continue to be monitored.

- Barker Dam and Reservoir \$100,000
- Boulder Canyon Hydro Penstock Repair \$673,012
- Maxwell Hydro/Pressure-Reducing Facility \$185,000
- Meter Replacement Program \$230,000
- Silver Lake Dam \$200,000
- Source Systems Condition Assessment \$350,000
- Water Resource Recover Facility (WRRF) Digester Cover Replacement Design \$200,000
- WRRF Nutrient Compliance Study \$250,000
- WRRF Primary Clarifier Phase 1 Rehab \$115,000

### **Operating and Maintenance Impacts**

The Utilities CIP identifies numerous projects and programs over a moving six-year period. The CIP projects and programs typically have a minimum estimated cost of \$50,000. There are typically corresponding operational and maintenance (O&M) costs associated with new infrastructure, however, many of projects also result in a reduced maintenance burden that can offset the increased maintenance of other projects. An example of this is the sanitary sewer condition assessment program, which includes the cleaning and TV inspection of the entire sewer system. This annual program has been completed by private contractors for the last four years but will be completed by city maintenance staff beginning in 2020. Greenways habitat maintenance is routinely coordinated with Parks and Open Space maintenance staff. Major drainageway improvements are maintained by the flood maintenance staff and multi-use paths and underpasses are maintained by either Transportation or Parks maintenance, depending upon jurisdiction.

### Unfunded Projects and Emerging Needs

The city's Water, Wastewater, and Stormwater & Flood Management Utilities are enterprise funds that are funded by the rate payers who are provided city services. Enterprise funds are specifically dedicated to those services and cannot be used for other city needs. This is a different funding mechanism than the General Fund, which relies on city sales and use taxes, to fund other city departments. For this reason, Utilities may utilize a slightly different approach in explaining "unfunded projects and emerging needs". Utilities staff prioritize all capital project needs in the various funds through the master plan process and other more detailed evaluations. Projects are scheduled in the CIP based on their level of priority and can be postponed several years to minimize rate increases in a given year. Large capital projects that are funded through revenue bonds may require larger rate increases to cover the bond's debt service. All the projects in the Utilities six-year CIPs are funded if the projected future rate increases are enacted.

There are many factors currently impacting the health and condition of the Greenways system, such as tree loss due to Emerald Ash Borer, pollinator and native species decline, spread of noxious weeds, contamination from pesticide use, and soil erosion. Significant environmental changes are taking place due to climate change compounding these factors and impacting natural ecosystems. Staff believe a collaborative approach across the city and community is needed to better face these challenges. The Greenways Program will continue to partner on projects funded through other departments and incorporating the objectives of the Greenways Program.

#### **CEAP Projects**

The Interceptor Sewer Realignment project is the type of project that would typically require the completion of a CEAP. Since the interceptor sewer is located in Boulder County, it has triggered the Boulder County 1041 process. The 1041 process requires a comprehensive analysis very similar to the CEAP. These requirements include an extensive alternatives analysis, environmental surveys including T&E species, wetlands, and impacts to floodplains to address the project's benefits evaluated through the lens of environmental, social, and economic impacts. The city's sanitary sewer is a 50-yr old unlined concrete pipe that is at the end of its useful life. The pipe is failing from internal corrosion, is hydraulically insufficient, and was exposed during the 2013 and 2015 flood events when Boulder Creek overflowed its banks and caused significant erosion across the interceptor sewer alignment. This project will involve the construction of approximately 2.5 miles of new large diameter pipe, and the rehabilitation of existing sections of pipe. The project's primary goals will address structural stability, increased capacity, and alignment vulnerability.

#### **Board Action**

The preliminary 2021 Utilities budget and the 2021-2026 CIP was presented to the WRAB on May 18, 2020 and also at their June 15, 2020 meeting. A third WRAB meeting to discuss the CIP was held on July 20, 2020 where the WRAB voted 4-0 to recommend the CIP and rates. The following language was included in the motion:

The Water Resources Advisory Board recommends approval of the 2021-2026 CIP for the Water, Wastewater, and Flood & Stormwater Management Utilities including proposed rate adjustments to support 2021 revenue increases of 8% in the Water Utility, 5% in the Wastewater Utility, and 12% in the Stormwater & Flood Management Utility, for an overall rate increase of 7.5% or \$7.30 per month for average single family residential. WRAB recognizes the seriousness of recommending a double-digit increase for the Stormwater & Flood Utility in a time of great economic pain and uncertainty, but also recognizes that the initiatives supported by this Utility go directly to protecting the health and safety of our residents and cannot be compromised. WRAB also encourages Council to focus on the dollar amount increases, rather than the associated percent increases. In making this recommendation, it is important to WRAB that Utilities continues to expand the customer assistance program.

The Greenways Advisory Committee meeting is scheduled for August 18<sup>th</sup> to review the 2021-2026 Greenways Program CIP and provide a recommendation to City Council.



#### 2021-2026 Capital Improvement Plan

Water Utility									
	Esti	mated Total Cost	-	2021 mmended	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected
Capital Program Total	\$ 1	38,984,590	\$	13,398,913	\$ 54,102,825	\$ 19,749,883	\$ 22,709,930	\$ 18,071,716	\$ 10,951,324
CIP-Capital Enhancement Total	\$	43,602,240	\$	3,500,000	\$ 28,750,000	\$ 1,052,476	\$ 9,899,764	\$ 250,000	\$ 150,000
63rd WTF Campus Electrical & HSPS	\$	20,300,000	\$	2,000,000	\$ 18,300,000	\$ -	\$ -	\$ -	\$ -

The City owns and operates two potable water treatment facilities that supply water to customers. These are the Betasso Water Treatment Facility (BWTF) rated at 40 million gallons per day (mgd) and the 63rd Water Treatment Facility (63rd WTF) rated at 16 mgd. Initial construction of the 63rdWTF took place in 1969 to provide critical backup supply during times when BWTF is offline for repairs or emergencies. In addition, the facility is required for use of critical water rights from the western slope. Since the 63rdWTF construction, various expansion and improvement projects have been constructed to maintain service and the ability to meet more stringent regulations. Overall, the facility has provided high-level service to City water customers but is aging and needs repairs. The focus of this project is twofold: 1) replacing major power supply and electrical components on the campus and to improve their reliability and redundancy and 2) Repair and replacement (R&R) of the largest power consuming treatment process on campus called the high service pump station (HSPS). The HSPS was built in 1969 and is the sole source of supply to the distribution system from the 63rd WTF. Minor repairs have been implemented over time, but the station is now at its end of useful life. The project also contemplates converting the existing power supply of the station to a lower voltage that is less hazardous and more easily maintained.

Barker Dam Outlet	\$	10,752,240	\$	- \$		- \$	977,476	\$	9,774,764	\$	- \$	-
This project is categorized as Essential using the Budgeting for Re	esilien	ce framework	.This	project will provide fu	Inds for the I	rehabil	itation/replac	eme	nt of the exis	ting o	outlet works system of Bark	ker
Dam. The Barker Dam outlet facilities are over 100-years old and	in ne	ed of significa	nt rel	habilitation. The curre	nt configurat	tion of	the outlet ga	tes re	equires that	Barke	er Reservoir be nearly emp	otied
to perform a thorough inspection once every 5-10 years. Reconfigu	uratio	n of the outlet	facili	ities would potentially	eliminate the	e need	to empty the	e rese	ervoir for gat	e ins	pection. As currently	
envisioned, the project would require construction of a vertical sha	ft nea	r the north en	nbanl	kment, inlet tunnels ar	nd one outle	t tunne	el, an outlet d	istrib	ution facility	a pip	peline to Barker Gravity Lin	ne,
and valve house. The outlet facilities would provide the opportunit	y to d	evelop a hydr	oelec	ctric generation facility	as well. Inf	ormati	on regarding	the a	alternative a	proa	aches will be provided as pa	art of
the Community & Environmental Assessment Process (CEAP).												

BWTF Disinfection & Corrosion	\$ 11,600,000	\$	1,150,000	\$	10,450,000	\$	- \$	- \$	- \$	-
The City owns and operates two potable water treatment facilities	s that supply water to	o custo	omers. The vast	majo	rity of water is	s suppli	ed to the City via the	Betasso Water .	Treatment Facility	
(BWTF). Initial construction of the BWTF took place in 1964. Since	ce then various expa	ansion	and improvement	nt pro	jects have be	een con	structed to maintain s	ervice and the a	ability to meet more	
stringent regulations. Most recently items of highest priority were	repaired in the 2016	6 capit	al improvements	proje	ect. The next	phase of	of priority repair and r	eplacement (R&	R) focuses on two	main
items: 1) Disinfection capacity and 2) the lime and carbon dioxide	e chemical feeds sys	stems	used for corrosio	n coi	ntrol. Because	e these	two aspects of the tre	atment process	interact and work	
together they are being addressed in a single combined project.										

Currently regulatory driven disinfection occurs in two tanks known as clearwells. Clearwell #1 is baffled and performs most of the disinfection. Clearwell #2 is not baffled and therefore has limited capacity. Major repairs are required for Clearwell #1 in the next 5 years to repair corroded structural members and replace its interior and exterior coatings. This project focuses on baffling Clearwell #2 or adding disinfection capacity. This will help meet anticipated regulations, will add redundancy to allow for timely repairs to Clearwell #1, and provides needed system reliability improvements to meet level of service goals now through buildout. The project will also address priority repair and replacement (R&R) for the lime and carbon dioxide chemical feeds systems. These critical systems are used for conditioning treated water to prevent corrosion of pipes in the distribution system and to control of lead and copper levels for regulatory compliance.

Green Lake 2 Dam	\$	350,000	\$	- \$	- \$	75,000	\$	25,000	\$	250,000	\$-
This project is categorized as Essential using the Budgeting for R	esilienc	e framework	.This	project will provide funds for	or the evaluatio	on of alterna	tives	and design	of the	e rehabilitation	of Green Lake
2 Dam. Green Lake 2 Dam needs extensive rehabilitation to allow	/ continu	ed full stora	age of	f water.							

Lakewood Hydroelectric/PRV	\$	200,000	\$	50,000 \$	- \$	- \$	- \$	- \$	150,000
This project is categorized as Essential using the Budgeting for F	Resilience	e framework	.The	e Lakewood Hydroelectric	station is located or	the raw water tra	nsmission system n	ear Betasso	Water
Treatment Facility. This project provides ongoing enhancements	of hydro-	electric equ	lipm	ent at this location as syste	ems age or need to	be replaced.			

A generator overhaul was completed in 2016 and a pressure reducing valve refurbishment is planned for 2019/2020.

Wittemyer Ponds	\$	400,000	\$	300,000	\$	-	\$	-	\$	100,000	\$	-	\$	-
This project is categorized as Essential using the Budgeting for	Resilier	ce framework	Witter	myer Ponds con	sists	s of multiple re	eser	voirs planned	for p	otential use to	o fa	cilitate city wate	er e	kchanges.
Alternatives for improving the ponds to reservoirs will be consid	lered for	final impleme	ntation	ı. İ										-
		00 400 050	•	0 000 040	•	04 000 005	•	47 507 407	•	40.050.400	•	47 044 740	•	40 544 004
CIP-Capital Maintenance Total	\$	92,422,350	\$	9,388,913	\$	24,992,825	\$	17,537,407	\$	12,650,166	\$	17,311,716	\$	10,541,324
Albion Dam	\$	10,853,761	\$	986,706	\$	9,867,055	\$	-	\$	-	\$	-	\$	-
										let works. In 2	2017	', a rehabilitatio	on a	ternative
study was issued. This project will fund the dam liner, crest and		repair as rec	ommer	nded in the Sour	ce \	Water Master	Plar	n, MWH, 2008	•					
tudy was issued. This project will fund the dam liner, crest and Barker Gravity Pipeline Repair	l spillway \$	repair as rec 27,351,114	ommer \$	nded in the Sour 3,782,672	rce \ \$	Water Master	, Plar \$	4,640,332	\$	4,815,945	\$	3,972,156	\$	4,121,042
study was issued. This project will fund the dam liner, crest and Barker Gravity Pipeline Repair This project is categorized as Essential using the Budgeting for	l spillway \$ Resilier	v repair as rec 27,351,114 nee framework	ommer <b>\$</b> This p	nded in the Sour 3,782,672 project will provid	rce \ \$ de fu	Water Master 6,018,967 unds for ongoi	Plar \$ ng r	<b>4,640,332</b> epairs to the E	<b>\$</b> Bark	<b>4,815,945</b> er Gravity Pip	\$ eline	<b>3,972,156</b> e. A rehabilitati	\$ ion s	<b>4,121,042</b> egment was
This project is categorized as Essential using the Budgeting for study was issued. This project will fund the dam liner, crest and <b>Barker Gravity Pipeline Repair</b> This project is categorized as Essential using the Budgeting for placed in 2016 and the results updated the 12-year rehabilitatio year.	l spillway \$ Resilier	v repair as rec 27,351,114 nce framework	ommer <b>\$</b> This p	nded in the Sour 3,782,672 project will provid	rce \ \$ de fu	Water Master 6,018,967 unds for ongoi	Plar \$ ng r	<b>4,640,332</b> epairs to the E	<b>\$</b> Bark	<b>4,815,945</b> er Gravity Pip	\$ eline	<b>3,972,156</b> e. A rehabilitati	\$ ion s	<b>4,121,042</b> egment was

The BCH Penstock is a pressure pipeline that delivers water from Kossler Reservoir to Boulder Canyon Hydro. This project is categorized as Essential using the Budgeting for Resilience framework. This project will provide funds for analysis and targeted repairs for areas discovered in the inspection in 2019. An analysis will be performed on approximate remaining operational life including recommendations from metallurgical and corrosion experts. The rehabilitation project is scheduled for 12 years at approximately 850 feet per year.

Boulder Canyon Hydro	\$	250,000 \$	- \$	- \$	250,000 \$	- \$	- \$	-
Boulder Canyon Hydroelectric - Maintenance and Inspection of	the install	ed replacement uni	t (commercial operation sta	arted in 2013	<ol><li>and control system</li></ol>	is.This project is ca	ategorized as Esse	ential
sectors the expectation of an Destiliance of feature stands								

using the Budgeting for Resilience framework.

### 2021-2026 Capital Improvement Plan

	Esti	mated Total Cost	202 <sup>.</sup> Recomm		2022 Projected	1	2023 Projected	Ρ	2024 rojected		2025 ojected		026 jected
Distribution Waterline Replacement	\$	12,600,000	\$	-	\$ 4,200,00	0\$	-	\$	4,200,000	\$	-	\$ 4	,200,00
The City of Boulder Public Works (PW) Department is dedicated and maintaining municipal infrastructure, managing public inves system is engineered, built, operated, and maintained according heir useful life. Timely replacement of old piping helps limit the and cost efficiency of utility services. As of 2020 the City's progr of this program is demonstrated by the reduction of water main comprehensive approach that considers overall utility reliability is operations staff, regulations, available budget and revenues, tin will target pipeline replacement in 4th Avenue from Mapleton to	stments, a g to indus number a ram repla breaks fro and redur ning of otl	and protectin try best pract and frequence ces about fo om historic le adancy, impr ner PW proje	g health and s tices. One ke y of pipe brea ur to five mile evels of >100 ovements rec	safety (PW ey compone aks in the s es of pipe p breaks per quired to se	Mission State ent is ongoing system and the er year, which r year to current erve the City C	ment). replace risks t is app nt level omprel	The utilities of ement of treat they impart or roximately a ls of <40 brea hensive Plan,	divisio ed wa publ 100-yr ks pe City (	n helps mee ater pipes in ic health, the replacemen r year. Proje Council prior	t this g the sys e envirc t frequ cts are ities, sa	oal by ensu atem that an onment, cus ency. Overa prioritized t afety of the	ring our e at the tomer s all, the s through public a	utility end of ervice success a and
Hydro Facilities Rehab Program	\$	387,983	\$	58,493	\$ 60.83	3\$	63.266	\$	65,797	\$	68.428	\$	71,16
This project is categorized as Essential using the Budgeting for	Resilienc		-				nor items/repa	airs/up			d in specific	CIP bu	
nstream Flow Structures and Gaging	\$	40,000	\$	10,000	\$ 10,00	0\$	10,000	\$	10,000	\$	_	\$	
This project is categorized as Essential using the Budgeting for low measurement along the reach. The stream gage will be use	Resilienc	e framework	.Boulder will i	install a str	eam gauge or	Bould	ler Creek dow	nstrea	am of the Ru				prove
Kohler Tank Yard Piping Replacement		1,000,000		-		- \$			1,000,000		-		
re flow demands. The Kohler site is especially important for wa riginal construction various improvement projects have been c R&R) at the Kohler site focuses on yard piping replacement. Th	ompleted	to maintain	service and th	he ability to	meet more st								
<b>Cossler Dam</b> This project is categorized as Essential using the Budgeting for	\$	2,750,000	<u> </u>	100,000	,,.		300,000		100,000		750,000		
Cossier Reservoir miet Structure in 2017. Both the miet Structu	re and the	e Outlet Stru	cture will requ		abilitation/repl	acemei			and is preser	itly sch		2025. G	ate
Cossler Reservoir Inlet Structure in 2017. Both the Inlet Structure analysis 2021 and replacement in 2022/2023. <b>_akewood Pipeline</b> This project provides funding for periodic inspection and maintee	\$	384,864	\$			- \$	nt within 10 ye		and is presen 384,864		eduled for 2	2025. G	ate
analysis 2021 and replacement in 2022/2023. .akewood Pipeline This project provides funding for periodic inspection and mainte	\$ enance on	384,864 the Lakewo	\$ od Pipeline.	uire full reh	\$	- \$	nt within 10 ye	s	·	\$	eduled for 2	\$	ate
nalysis 2021 and replacement in 2022/2023. akewood Pipeline his project provides funding for periodic inspection and mainte arge Meter Improvements Phase 1 Potable water customers are billed for their water use based a r verall provide reliable service to Citly customers and Utility Billi e replaced via in-house crews to streamline schedule and save perations and maintenance, and space required for modern m ) Broadway & Pennsylvania (CU Large Meter) ) Grandview & 19th (CU Large Meter) ) Folsom Field 4-inch Meter/Vault	\$ enance on \$ network o ing. Howe e costs. H	384,864 the Lakewo 1,360,000 f nearly 30,0 ver, many co lowever, son	\$ od Pipeline. \$ 00 water mete phorts of meteone of the meteone	uire full reh	\$ 1,360,00 s in the system he end of pred ated in vaults t	- \$ 0 \$ are te icted lin hat nee	nt within 10 ye - ested by the C fespan and re ed to be repla	ears a \$ tity in tequire	384,864 accordance replacemen	\$ \$ with AV	eduled for 2 - - WWA best p majority of t	\$ \$ practices hese m	s and eters ca
nalysis 2021 and replacement in 2022/2023. Akewood Pipeline This project provides funding for periodic inspection and mainter Arge Meter Improvements Phase 1 Potable water customers are billed for their water use based a r verall provide reliable service to City customers and Utility Billi te replaced via in-house crews to streamline schedule and save perations and maintenance, and space required for modern m ) Broadway & Pennsylvania (CU Large Meter) ) Grandview & 19th (CU Large Meter) ) Folsom Field 4-inch Meter/Vault ) Justice center 6th and Canyon 4-inch Meter/Vault	\$ enance on \$ network o ing. Howe e costs. H	384,864 the Lakewo 1,360,000 f nearly 30,0 ver, many co lowever, son	\$ od Pipeline. \$ 00 water met horts of mete ne of the mete vaults are con	uire full reh	\$ 1,360,000 s in the system he end of pred ated in vaults t with this proje	- \$ 0 \$ are te icted lin hat nee	nt within 10 ye - ested by the C fespan and re ed to be repla	ears a \$ tity in tequire	384,864 accordance replacemen	\$ \$ with AV	eduled for 2 - - WWA best p majority of t	\$ \$ practices hese m	s and eters ca
nalysis 2021 and replacement in 2022/2023. .akewood Pipeline	\$ matwork o ing. Howe e costs. F leeter equip \$ metwork o ing. Howe	384,864 the Lakewo 1,360,000 f nearly 30,0 ver, many ca bowever, son boment. Four 425,000 f nearly 30,0	\$ od Pipeline. \$ 00 water mete vaults are con \$ 00 water mete	Lers. Meters ers are loc ntemplated 425,000 ters. Meters	\$ 1,360,00 s in the system he end of pred ated in vaults I with this projection s in the system	- \$ o s are te icted lif hat nee ect pha	nt within 10 ye 	s s ity in a cced d s ity in a	384,864 accordance replacemen lue to issues accordance	\$ with AV t. The r related \$ with AV	eduled for 2 - - - - - - - - - - - - - - - -	\$ sorractices hese m fe acces \$ orractices	s and eters ca ss for
nalysis 2021 and replacement in 2022/2023. akewood Pipeline his project provides funding for periodic inspection and mainte arge Meter Improvements Phase 1 Totable water customers are billed for their water use based ar verall provide reliable service to City customers and Utility Billi e replaced via in-house crews to streamline schedule and save perations and maintenance, and space required for modern m ) Broadway & Pennsylvania (CU Large Meter) ) Grandview & 19th (CU Large Meter) ) Folsom Field 4-inch Meter/Vault ) Justice center 6th and Canyon 4-inch Meter/Vault Netter Replacement Program Totable water customers are billed for their water use based a riverall provide reliable service to City customers and Utility Billi e replaced via in-house crews to streamline schedule and save silver Lake Hydroelectric/PRV	\$ enance on \$ metwork o ing. Howe e costs. \$	384,864 the Lakewo 1,360,000 f nearly 30,0 ver, many cc lowever, son oment. Four 425,000 f nearly 30,0 ver, many cc 250,000	\$ od Pipeline. \$ 00 water mete her of the mete vaults are con \$ 00 water mete horts of mete \$	ters. Meters ers are at ti ers are at ti ers are at ti	\$ 1,360,000 s in the system he end of pred ated in vaults t I with this project s in the system he end of pred \$	- \$ 0 \$ are te icted lif hat new ct pha - \$ are te icted lif - \$	nt within 10 ye 	s s ity in : equire acced d ity in . quire s	384,864 accordance replacemen lue to issues accordance replacemen	\$ with AV t. The end with AV t. The final states of the st	eduled for 2 WWA best p majority of t d to age, sa WWA best p majority of t	\$ practice: hese m fe accer \$ practice: hese m \$	s and eters ca ss for s and eters ca
Inalysis 2021 and replacement in 2022/2023. Indexempoint in 2022/2023. In the provides funding for periodic inspection and mainter In the provide reverse funding for periodic inspection and mainter Interplaced via in-house crews to streamline schedule and save perations and maintenance, and space required for modern m ) Broadway & Pennsylvania (CU Large Meter) ) Grandview & 19th (CU Large Meter) ) Grandview & 19th (CU Large Meter) ) Joustice center 6th and Canyon 4-inch Meter/Vault Potable water customers are billed for their water use based a r werall provide reliable service to City customers and Utility Billi le replaced via in-house crews to streamline schedule and save <b>Silver Lake Hydroelectric/PRV</b> The Silver Lake Hydroelectric station is located on the raw wate	\$ enance on \$ metwork o ing. Howe e costs. \$	384,864 the Lakewo 1,360,000 f nearly 30,0 ver, many cc lowever, son oment. Four 425,000 f nearly 30,0 ver, many cc 250,000	\$ od Pipeline. \$ 00 water mete her of the mete vaults are con \$ 00 water mete horts of mete \$	ters. Meters ers are at ti ers are at ti ers are at ti	\$ 1,360,000 s in the system he end of pred ated in vaults t I with this project s in the system he end of pred \$	- \$ 0 \$ are te icted lif hat new ct pha - \$ are te icted lif - \$	nt within 10 ye 	s s ity in : equire acced d ity in . quire s	384,864 accordance replacemen lue to issues accordance replacemen	\$ with AV t. The end with AV t. The final states of the st	eduled for 2 WWA best p majority of t d to age, sa WWA best p majority of t	\$ practice: hese m fe accer \$ practice: hese m \$	s and eters ca ss for s and eters ca
nalysis 2021 and replacement in 2022/2023. akewood Pipeline his project provides funding for periodic inspection and mainte arge Meter Improvements Phase 1 Potable water customers are billed for their water use based ar verall provide reliable service to City customers and Utility Billi e replaced via in-house crews to streamline schedule and save perations and maintenance, and space required for modern m ) Broadway & Pennsylvania (CU Large Meter) ) Grandview & 19th (CU Large Meter) ) Folsom Field 4-inch Meter/Vault ) Justice center 6th and Canyon 4-inch Meter/Vault Neter Replacement Program Potable water customers are billed for their water use based a r verall provide reliable service to City customers and Utility Billi e replaced via in-house crews to streamline schedule and save silver Lake Hydroelectric/PRV he Silver Lake Hydroelectric station is located on the raw wate his location as systems age or need to be replaced. skyscraper Dam	\$ metwork o ing. Howe e costs. Heter equip s metwork o ing. Howe e costs. \$ er transmit	384,864 the Lakewo 1,360,000 f nearly 30,0 ver, many cc lowever, son poment. Four 425,000 f nearly 30,0 ver, many cc 250,000 ssion system 171,071	\$ 00 water metro bhorts of meter vaults are con \$ 00 water metro bhorts of metero \$ n near the Lak \$	Liers. Meters ers are at ti ers are locanter ntemplated ters. Meters ers are at ti sers are at ti complated ters. Meters ers are at ti kewood Re 171,071	\$ 1,360,000 s in the system he end of pred ated in vaults I l with this proje \$ s in the system he end of pred \$ servoir. This p \$	- \$ or the incred line in the incred line in the incred line incred the incred line incredit the	nt within 10 ye 	<pre>s s fity in : equire equire s fing e s s</pre>	384,864 accordance replacemen lue to issues accordance replacemen nhancement	\$ with AV t. The r related \$ with AV t. The r \$ s of hy \$	WWA best p majority of t d to age, sa WWA best p dro-electric	\$ vracticee hese m fe acce practicee hese m \$ equipm \$	s and eters ca ss for s and eters ca
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Source Water Rehabilitation Program \$ 1,163,947 \$ 175,479 \$ 182,498 \$ 189,798 \$ 197,390 \$ 205,285 \$ 213,497 This project is categorized as Essential using the Budgeting for Resilience framework. Funding for capital maintenance for the critical source water facilities, hydroelectric, pressure reducing, and reversible pump-generator system components not identified as individual capital projects.

#### 2021-2026 Capital Improvement Plan

Transmission System R&R Program       \$ 21,500,000 \$       1,500,000 \$       - \$ 10,000,000 \$       - \$ 10,000,000 \$         The City owns, operates, and maintains an extensive, 65-mile potable water transmission system (i.e., pipes greater than 12-inches in diameter). This system has a replacement value of \$350 toout 20 percent of the value of the treated water system overall. The transmission system is of high importance because it supplies the vast majority of water to the system and has limited value of sixed segments for repairs and/or emergency response. Historically, the City water transmission replacement program has been very limited as this portion the system has been relatively unctioning with few pipe breaks. Overall, the transmission pipe system has provided acceptable service to City customers but is at a point where reinvestment is needed to address aging frastructure and to prevent and minimize pipe breaks and/or emergency scenarios. Furthermore, over the past 10-20 years City water demands have "grown into" the capacity of the system reviously could be used for redundancy. A formal Water Transmission Study is ongoing at this time recognizing the transmission system is aging and in need of a prioritized plane for reinvest.         reated Water Misc. R&R       \$ 2,100,000 \$       350,000 \$		Estimated Total Cost	2021 Recommended	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected
The City corres, generates, and maintains an extensive, 65-mile petable water transmission system (16, pippes greater than 12-nches in diarrang). This system has a replacement value of \$25000000000000000000000000000000000000			Recommended	Tiojeeteu	Tiojeoleu	Tojecteu	Tojecteu	Tojeoteu
bould operative of the value of the treated water system overall. The transmission system is of high importance because it supplies the varies indigety of water to the system aske netablocky incline mystem has been real water or the system aske netablocky incline mystem has been real water or the system aske netablocky incline mystem has been real water or the system aske netablocky incline mystem has been real water or the system aske netablocky incline mystem has been real water or the system aske netablocky incline mystem has been real water or the system aske netablocky incline mystem has been real water or the system aske netablocky incline mystem has been real water or the system aske netablocky incline mystem has been real water or the system and the substance of the system and character been real mystem and the system and the		1 / /	1	-		-	. , ,	-
he City of Boukier owns and operates a comptex treated water utility system valued at approximately \$1 7 billion. Overail, these facilities provide high-level service to City water customers, it unpose of this project is to repair or replace miscellaneous capital assets or components within the treated water system as needed throughout the year. This project primarily involves select and purchase of equipment part bytical City purchasing policies.  Itility Billing Computer System is aging and needs updates. This project will upgrade the system.  Inter Mains In-House R&Program  S 2.400,000 \$ 400,000	bout 20 percent of the value of the treated water system overall. isolate segments for repairs and/or emergency response. Histo inctioning with few pipe breaks. Overall, the transmission pipe s frastructure and to prevent and minimize pipe breaks and/or em reviously could be used for redundancy. A formal Water Transm he study is evaluating various key components of the transmissi	. The transmission sy prically, the City wate ystem has provided a nergency scenarios. F nission Study is ongoi ion system to maintai	vstem is of high importan r transmission replacen acceptable service to Ci Furthermore, over the p ing at this time recogniz in high-quality service a	nce because it so nent program has ty customers but ast 10-20 years ( ing the transmiss nd flexibility for c	upplies the vast m s been very limited t is at a point when City water demand sion system is agir operations, mainter	ajority of water to as this portion t e reinvestment is s have "grown ir ng and in need o	o the system and h he system has bee s needed to addres nto" the capacity of f a prioritized plan	as limited valvi in relatively hig is aging the system that for reinvestmer
aricus components of the system read ongoing repairs and miscellaneous other improvements to address aging infrastructure, equipment obsolessence, and safereilable operations. The project this organic repairs and miscellaneous capital assets or components within the treated water system as needed throughout the year. This project primarily involves select of purchase of aquipment per typical Clip purchasing policies. This project will upgrade the system. The project primarily involves select to existing Ulifly Billing Computer System is aging and needs updates. This project will upgrade the system. The oscillary Euclider Fubic Works (PW) Department is decicated to maintaining and microving the quality of life in Bouider by planning for future needs, promoting any encourse of the system and the future select of the system and the future system and the future select of the system and the system and the system and the future select of the system and t		, , , , , , , , , , , , , , , , , , , ,		. ,	. ,	. ,	. ,	
the existing Utility Billing Computer System is aging and needs updates. This project will upgrade the system.           Atter Mains In-House R&R Program         5         2.400.000         \$         400.000         \$	arious components of the system need ongoing repairs and mise urpose of this project is to repair or replace miscellaneous capita	cellaneous other imp	rovements to address a	iging infrastructu	re, equipment obs	olescence, and	safe/reliable operat	ions. The
tater Mains In-House R&R Program       \$ 2,400,000 \$ 400					\$-	\$ -	\$ -	\$
be City of Builder Public Works ( <sup>TMV</sup> ) Department is dedicated to maintaining and improving the quality of the in Boulder by planning for future needs, promoting environmental quality, build of maintaining municipal infrastructure, managing public investments, and protecting health and safety (PW Mission Statement). The utilities division helps meet this goal by ensuring our ult stem is angineered, built, pertaded, and maintaining and important and frequency to pipe breaks in the system maint and the risks they impant on public health, the environment, customers are und to diat plicinev, as ol 2020 the City program replaces about four to live miles of pipe per year, which is approximately a 100% replacement frequency. This project focul division helps meet frequency. This project focul division, available budget and revenues, timing with other City department projects, and pavement management projects. <b>Interspecific of actegorized as Essential using the Budgeting for Resilience framework. General Watershed improvements for critical as recommended in the 2009 Source Water Master Plan. To global division plan the active plan the source water storage and delivery system. Fund augmentation needs will be easessed at the environment of a plan term of the division helps meet and the relaxed term provements to facilitate continued reliable operation of the watershed source water storage and delivery system. Fund augmentation needs will be assessed at the environment of the watershed source water storage and delivery system. Fund augmentation needs will be easessed at the environment of the pump valves (2019/2020) which includes: disassembly, inspection, repair and</b>	-		will upgrade the system					
di maintaining municipal infrastructure, managing public investments, and protecting health and safety (PM Mission Statement). The utilities division helps meet this goal by ensuing our util signe is engineered, built, percented, and maintained according to industry best practices. One key component is ongoing replacement of treated water present the system that are at the en- eri useful life. Timely replacement of old piping helps limit the number and frequency of pipe breaks in the system and the risks they impart on public health, the environment, customer serv do cost efficiency of utility services. As of 2020 the City's program replaces about four to five mise of pipe prevar, which is approximately at 100-yr replacement frequency. This project to the components of these efforts most effectively performed by in-house City crews. Projects are prioritized through a comprehensive approach that considers overall utility reliability and dundancy, improvements required to serve the City dopartment projects. <b>Harshed Improvements 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 3 1 2 3 3 3 3 3 3 3 3 3 3</b>	ater Mains In-House R&R Program	\$ 2,400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,0
State       State <th< td=""><td>d cost efficiency of utility services. As of 2020 the City's progra the components of these efforts most effectively performed by dundancy, improvements required to serve the City Compreher</td><td>m replaces about fou in-house City crews. nsive Plan, City Coun</td><td>r to five miles of pipe p Projects are prioritized ncil priorities, safety of th</td><td>er year, which is through a comp</td><td>approximately a 1 rehensive approac</td><td>00-yr replaceme h that considers</td><td>nt frequency. This overall utility relial</td><td>project focuse pility and</td></th<>	d cost efficiency of utility services. As of 2020 the City's progra the components of these efforts most effectively performed by dundancy, improvements required to serve the City Compreher	m replaces about fou in-house City crews. nsive Plan, City Coun	r to five miles of pipe p Projects are prioritized ncil priorities, safety of th	er year, which is through a comp	approximately a 1 rehensive approac	00-yr replaceme h that considers	nt frequency. This overall utility relial	project focuse pility and
Solution in the state of the second state o	Vatershed Improvements his project is categorized as Essential using the Budgeting for R roject funds ongoing improvements to facilitate continued reliabl	\$ 120,000 Resilience framework.	\$ 30,000 General Watershed imp	provements for c	ritical as recomme	nded in the 2009	9 Source Water Ma	
his project is categorized as Essential using the Budgeting for Resilience framework. The Kohler facility is a treated water pressure reducing and hydroelectric facility located below Betasso V reatment Facility. This project is an update to the complete overhaul of the pump valves (2019/2020) which includes: disassembly, inspection, repair and reassembly. <b>taxwell Hydro/PRV Facility \$ 150,000 \$ 100,000 \$ - \$ - \$ - \$ - \$ 50,000 \$</b> his project is categorized as Essential using the Budgeting for Resilience framework. The Maxwell facility is a treated water pressure reducing and hydroelectric facility located below Betasso valer Treatment Facility. This project is to completely replace the pump control valve. <b>trunshine Hydroelectric/PRV Facility \$ 150,000 \$ - \$ 150,000 \$ - \$ - \$ - \$ - \$</b> he Sunshine facility is a treated water pressure reducing and hydroelectric facility located below Betasso Water Treatment Facility. This project will inspect and rebuild the turbine. <b>treated Water Hydro Study \$ 250,000 \$ 250,000 \$ - \$ - \$ - \$ - \$ - \$ - \$</b> his project is categorized as Essential using the Budgeting for Resilience framework. The City's potable water system includes two (2) mountain-to-town hydroelectric stations, two (2) in-town ydroelectric facilities, two (2) "reverse pump stations" integrated with the two in-town hydroelectric stations. There is one (1) stand-alone pressure reducing valve rate between the City's three pressure zones in a cost-efficient and safe manner. These facilities have provided acceptable service to City customers but have required ongoing and consiste investment to address aging infrastructure, surge mitigation, or operational issues related to pressure management. Many components of the system are now at a critical point there if or there by otentially large investments are needed to continue reliable service and to meet City level of service goals now through buildout. The purpose of this study is to confirm the most cos fficient options for all treated water hydroele	Vatershed Improvements his project is categorized as Essential using the Budgeting for R roject funds ongoing improvements to facilitate continued reliabl 019.	\$ 120,000 Resilience framework. le operation of the wa	\$ 30,000 General Watershed imp atershed source water s	torage and delive	ritical as recomme ery system. Fund a	nded in the 2009 augmentation ne	9 Source Water Ma eds will be assesse	ed at the end o
'ater Treatment Facility. This project is to completely replace the pump control valve.         unshine Hydroelectric/PRV Facility       \$ 150,000 \$       \$ 150,000 \$       \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	atershed Improvements nis project is categorized as Essential using the Budgeting for R oject funds ongoing improvements to facilitate continued reliabl 119. IP - CAPITAL PLANNING STUDIES ohler Hydro/PRV Facility	\$ 120,000 Resilience framework. le operation of the wa \$ 1,600,000 \$ 50,000	\$ 30,000 General Watershed imp tershed source water s \$ 350,000 \$	brovements for c torage and delive \$ 150,000 \$ -	ritical as recomme ery system. Fund a \$ 1,000,000 \$ -	nded in the 2009 augmentation ne \$	9 Source Water Ma eds will be assesse \$ 100,000 \$ 50,000	ed at the end o \$ \$
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his project is categorized as Essential using the Budgeting for Resilience framework. The City's potable water system includes two (2) mountain-to-town hydroelectric stations, two (2) in-town droelectric facilities, two (2) "reverse pump stations" integrated with the two in-town hydroelectric stations, and three (3) pump stations. There is one (1) stand-alone pressure reducing valve (RV) station and each of the hydroelectric and system pump stations are equipped with co-located PRVs as well. These facilities serve the primary purpose of controlling pressure and transi ater between the City's three pressure zones in a cost-efficient and safe manner. These facilities have provided acceptable service to City customers but have required ongoing and consiste investment to address aging infrastructure, surge mitigation, or operational issues related to pressure management. Many components of the system are now at a critical point in their life cy hereby potentially large investments are needed to confirm the ervice and to meet City level of service goals now through buildout. The purpose of this study is to confirm the most cost ficient options for all treated water hydroelectric stations and their adjacent pressure controlling infrastructure. The project includes conceptual-level design for the preferred alternative for ye	atershed Improvements         nis project is categorized as Essential using the Budgeting for R         oject funds ongoing improvements to facilitate continued reliable         19.         IP - CAPITAL PLANNING STUDIES         ohler Hydro/PRV Facility         nis project is categorized as Essential using the Budgeting for R         reatment Facility. This project is an update to the complete over         axwell Hydro/PRV Facility         nis project is categorized as Essential using the Budgeting for R         rater Treatment Facility. This project is to completely replace the         unshine Hydroolectric/PRV Facility	\$ 120,000 Resilience framework, te operation of the war \$ 1,600,000 \$ 50,000 Resilience framework, thaul of the pump value \$ 150,000 Resilience framework, e pump control value, \$ 150,000	\$     30,000       General Watershed impatershed source waters       \$     350,000       \$     350,000       \$     -       The Kohler facility is a tree (2019/2020) which is       \$     100,000       The Maxwell facility is a	provements for c torage and delive <b>150,000</b> <b>150,000</b> <b>150,000</b> <b>150,000</b>	ritical as recomme ery system. Fund a \$ 1,000,000 \$ - ssure reducing an mbly, inspection, \$ - ressure reducing a \$ -	nded in the 2009 augmentation ne \$ - \$ - d hydroelectric f repair and reass \$ - ind hydroelectric \$ -	9 Source Water Ma eds will be assesse \$ 100,000 \$ 50,000 acility located below embly. \$ 50,000 facility located below \$ 50,000	ed at the end o \$ w Betasso Wat \$ ow Betasso \$
ydroelectric facilities, two (2) "reverse pump stations" integrated with the two in-town hydroelectric stations, and three (3) pump stations. There is one (1) stand-alone pressure reducing valve PRV) station and each of the hydroelectric and system pump stations are equipped with co-located PRVs as well. These facilities serve the primary purpose of controlling pressure and transi ater between the City's three pressure zones in a cost-efficient and safe manner. These facilities have provided acceptable service to City customers but have required ongoing and consiste investment to address aging infrastructure, surge mitigation, or operational issues related to pressure management. Many components of the system are now at a critical point in their life cy hereby potentially large investments are needed to continue reliable service and to meet City level of service goals now through buildout. The purpose of this study is to confirm the most cost fficient options for all treated water hydroelectric stations and their adjacent pressure controlling infrastructure. The project includes conceptual-level design for the preferred alternative for ya	/atershed Improvements         his project is categorized as Essential using the Budgeting for R         roject funds ongoing improvements to facilitate continued reliable         019.         IP - CAPITAL PLANNING STUDIES         ohler Hydro/PRV Facility         his project is categorized as Essential using the Budgeting for R         reatment Facility. This project is an update to the complete over         axwell Hydro/PRV Facility         his project is categorized as Essential using the Budgeting for R         axwell Hydro/PRV Facility         his project is categorized as Essential using the Budgeting for R         axwell Hydro/PRV Facility         his project is categorized as Essential using the Budgeting for R         axwell Hydro/PRV Facility	\$ 120,000 Resilience framework, te operation of the war \$ 1,600,000 \$ 50,000 Resilience framework, thaul of the pump value \$ 150,000 Resilience framework, e pump control value, \$ 150,000	\$     30,000       General Watershed impatershed source waters       \$     350,000       \$     350,000       \$     -       The Kohler facility is a tree (2019/2020) which is       \$     100,000       The Maxwell facility is a	provements for c torage and delive <b>150,000</b> <b>150,000</b> <b>150,000</b> <b>150,000</b>	ritical as recomme ery system. Fund a \$ 1,000,000 \$ - ssure reducing an mbly, inspection, \$ - ressure reducing a \$ -	nded in the 2009 augmentation ne \$ - \$ - d hydroelectric f repair and reass \$ - ind hydroelectric \$ -	9 Source Water Ma eds will be assesse \$ 100,000 \$ 50,000 acility located below embly. \$ 50,000 facility located below \$ 50,000	ed at the end of \$ \$ # Betasso Wa \$ ow Betasso \$
	atershed Improvements is project is categorized as Essential using the Budgeting for R oject funds ongoing improvements to facilitate continued reliabl 19. P - CAPITAL PLANNING STUDIES ohler Hydro/PRV Facility is project is categorized as Essential using the Budgeting for R eatment Facility. This project is an update to the complete over axwell Hydro/PRV Facility his project is categorized as Essential using the Budgeting for R ater Treatment Facility. This project is to completely replace the unshine Hydroelectric/PRV Facility he Sunshine facility is a treated water pressure reducing and hy	\$     120,000 Resilience framework. te operation of the wa     \$     1,600,000     \$     50,000 Resilience framework. thaul of the pump value     \$     150,000 Resilience framework. e pump control value.     \$     150,000 rdroelectric facility loc	\$     30,000       General Watershed impattershed source water s       \$     350,000       \$     350,000       \$	orovements for c torage and delive	ritical as recomme ery system. Fund a \$ 1,000,000 \$ - ssure reducing an embly, inspection, \$ - ressure reducing a \$ - acility. This project	nded in the 2009 augmentation ne \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Source Water Ma eds will be assessed \$ 100,000 \$ 50,000 acility located below embly. \$ 50,000 facility located below embly. \$ 50,000 facility located below rebuild the turbine	ed at the end of \$ w Betasso Wa \$ ow Betasso \$
/ater System Master Plan & COS \$ 1,000,000 \$ - \$ - \$ 1,000,000 \$ - \$ - \$	Vatershed Improvements         his project is categorized as Essential using the Budgeting for R         roject funds ongoing improvements to facilitate continued reliabl         019.         HP - CAPITAL PLANNING STUDIES         Sohler Hydro/PRV Facility         his project is categorized as Essential using the Budgeting for R         reatment Facility. This project is an update to the complete over         laxwell Hydro/PRV Facility         his project is categorized as Essential using the Budgeting for R         vater Treatment Facility. This project is to completely replace the         unshine Hydroelectric/PRV Facility         his project is categorized as Essential using the Budgeting for R         vater Treatment Facility is a treated water pressure reducing and hy         Project is categorized as Essential using the Budgeting for R         his project is categorized as Essential using the Budgeting for R         value Experiment as Essential using the Budgeting for R         his project is categorized as Essential using the Budgeting for R         value Experiment facilities, two (2) "reverse pump stations" integrated PRV) station and each of the hydroelectric and system pump stater between the City's three pressure zones in a cost-efficient 2         Provestment to address aging infrastructure, surge mitigation, or hereby potentially large investments are needed to continue relificient options for all treated water hydroelectric stations and the	\$ 120,000 Resilience framework. te operation of the wa     \$ 1,600,000     \$ 50,000 Resilience framework. thaul of the pump val-     \$ 150,000 Resilience framework. te pump control valve.     \$ 150,000 Resilience framework. the pump control valve.     \$ 150,000 Resilience framework.     \$	\$     30,000       General Watershed impatershed source water s       \$     350,000       \$     350,000       \$     100,000       The Kohler facility is a tves (2019/2020) which is       \$     100,000       The Maxwell facility is a stated below Betasso Water s       \$     250,000       The City's potable water hydroelectric stations, a state provisited to pressure mananeet City level of service	rovements for c torage and delive 150,000 150,	ritical as recomme ery system. Fund a \$ 1,000,000 \$ - ssure reducing an embly, inspection, \$ - ressure reducing a embly, inspection, \$ - acility. This project \$ - s two (2) mountair p stations. There ities serve the prin service to City cust aph buildout. The p	nded in the 2009 augmentation ne \$	Source Water Ma eds will be assessed S 100,000 S 50,000 acility located below embly. S 50,000 facility located below embly. S 50,000 facility located below embly. S	s w Betasso Wa s w Betasso Wa s ow Betasso s c (2) in-town fucing valve e and transferr and consistent their life cycle

prioritize projects within the Capital Improvement Program (capital projects), identify and

plan utility improvements needed now and through buildout of the Boulder Valley Comprehensive Plan, and document implications for utility rates. As part of this planning process, the UE team periodically executes holistic, long-range master plans to catalogue infrastructure and funding needs anticipated in the water system (source water to customer meters) now and through buildout. The City's current master plan dates back to 2011 and an update is necessary. The purpose of this project is to update the master plan for the water fund as a hole (both source water and treated water systems) and to integrate a Cost of Service study (COS) to confirm appropriate revenue and rate needs near- and long-term as required for financial sustainability of the utility.

### 2021-2026 Capital Improvement Plan

	Esti	nated Total Cost	Rec	2021 commended	Ρ	2022 rojected	Ρ	2023 rojected	Pr	2024 ojected	Ρ	2025 rojected	Р	2026 rojected
CIP-New Facility/Infrastructure Total	\$	1,360,000	\$	160,000	\$	210,000	\$	160,000	\$	160,000	\$	410,000	\$	260,000
					•		*		\$		¢		\$	100,000
Barker Dam Hydroelectric	\$ Resilienc	150,000 e framework	\$ Analys.	- sis and develop	Ŧ	50,000 pelectric pote	· ·	- f preferred a	Ŧ	- mmended i	•		<b>T</b>	,
Barker Dam Hydroelectric This project is categorized as Essential using the Budgeting for MWH, 2008/2009. Carter Lake Hydroelectric	Resilienc	e framework 250,000	.Analys	sis and develop -	hydro \$	pelectric pote	ntial i \$	f preferred a	s reco	ommended i	n the :	Source Wate 250,000	er Ma \$	ster Plan,
Barker Dam Hydroelectric         This project is categorized as Essential using the Budgeting for         MWH, 2008/2009.         Carter Lake Hydroelectric         Analyze potential for hydroelectric facility on the city's portion of         Resilience framework.	Resilienc	e framework 250,000	.Analys	sis and develop -	hydro \$	pelectric pote	ntial i \$	f preferred a	s reco	ommended i	n the :	Source Wate 250,000	er Ma \$	ster Plan,

	Est	imated Total Cost		2021 ecommended		2022 Projected		2023 Projected	I	2024 Projected		2025 Projected		2026 Projected
Capital Program Total	\$	117,354,642	\$	14,694,831	\$	55,245,893	\$	28,923,000	\$	5,690,918	\$	5,860,000	\$	6,940,000
CIP-Capital Enhancement Total	\$	28,723,918	\$	2,550,000	\$	2,090,000	\$	22,523,000	\$	230,918	\$	250,000	\$	1,080,000
ower Goose Creek Trunk Sewer Repl	\$	4,300,000	\$	1,000,000	\$	-	\$	3,300,000	\$	-	\$	-	\$	
One of four Tier One (highest priority) projects identified in the 201 tructurally deteriorated sections of trunk sewer and improve the a							Goo	ose Creek Tru	nk S	ewer Replace	eme	nt Project will a	addr	ess
leter Replacement Program	\$	315,000	\$	75,000	\$	240,000	\$	-	\$	-	\$	-	\$	
This project is for replacing aging water meters that are used for c and of their useful life at $15 - 20$ years old. This project provides fu epaired or replaced as needed. The small meter (less than 2 incl	unding	g for a large m	neter	(greater than 2	nch)	replacement	on a	an ongoing bas	sis.	These meters				
Nater Resource Recovery Pumps	\$	375,000		75,000		150,000		-	\$	-	\$	150,000		
The existing pumps at the Boulder Water Resource Recovery Fac be funded each cycle.	ility re	quire rehabilit	ation	. This project wi	l fur	nd the upgrade	of	those pumps o	n a	recurring bas	s. T	he highest prie	ority	assets will
WRRF Activated Sludge	s	230,918	\$	-	\$	-	\$	-	\$	230,918	\$	-	ŝ	
/RRF Instrumentation/Control his project will fund the rehabilitation and/or replacement of instru 013 Process Automation System (PAS) Strategic Plan. The PAS			ol (1&0		e Bo	ulder Water R		urce Recovery		cility. These re			\$ are b	1,000,00 ased on th
VRRF Permit Improvements	\$	1,780,000	\$	-	\$	1,700,000	\$	-	\$	-	\$	-	\$	80,00
The Boulder Water Resource Recovery Facility requires improvem colorado Discharge Permit System (CDPS) Permit. This project a VRRF Permit Improvements - Proj. Bo	ddres \$	ses necessar 19,223,000	y imp \$	rovements to re	mov \$	e phosphorus. -	\$	19,223,000	\$	-	\$	- -	\$	
The Boulder Water Resource Recovery Facility requires improvem Colorado Discharge Permit System (CDPS) Permit. This project a								ation to improv	e ef	fluent quality,	as i	identified by th	e St	ate of
CIP-Capital Maintenance Total	\$	88,630,724	\$	12,144,831	\$	53,155,893	\$	6,400,000	\$	5,460,000	\$	5,610,000	\$	5,860,00
Collection System Monitoring	\$	900,000		150,000		150,000		150,000		150,000		150,000		150,00
his project provides funds for monitoring of the City's wastewater	colle	ction system.	Flow	monitoring infor	ms d	apital project	desi	ign and provid	es u	seful informat	ion	about the impa	act c	f rainfall
ondition Assessment Program	\$	5,540,000	\$	730,000	\$	890,000	\$	920,000	\$	960,000	\$	1,000,000	\$	1,040,00
he Wastewater Utility Condition Assessment Program is intended pproximately 370 miles of sanitary sewer pipe in the collection sy			oing	comprehensive	clear	ning and asses	sm	ent of the city's	s sa	nitary sewer o	olle	ction system. 1	Ther	e are
nterceptor Sewer Realignment	\$	48,075,000	\$	3,600,000	\$	44,475,000	\$	-	\$	-	\$	-	\$	
The City's existing main sanitary interceptor sewer is at the end of the 2013 flood and 2015 rainstorm. This project is for the re-align structural stability, increased capacity and decreased flood vulnera	its us ment	eful life and is of the intercep	s hyd otor s	aulically insuffic ewer and rehab	ient. litati	The intercept on of the exist	or is ing	interceptor sev	ver a	and will aim to	sat	tisfy three prim	ary	goals:

Project estimate increased from \$30M to \$48M based on preliminary design and 1041 process.

#### 2021-2026 Capital Improvement Plan

Inverted Siphon Replacement	\$	3,800,000	\$	300,000	\$	3,500,000	\$	- \$	- \$	- \$	-
Of the 370 miles of sanitary sewer in the city's wastewater collect	tion sys	stem, there ex	xists	only one inverted	siph	on. This feat	ure c	onveys wastewater flow	from the major	ity of Gunbarrel un	derneath
Boulder Creek on the property of the Boulder Water Resource R	ecover	y Facility.									

The existing ductile iron siphon was installed in 1976. The 2019 wastewater condition assessment program identified two issues: internal pipe corrosion and the inability to effectively clean and maintain the pipe.

This project will replace the inverted siphon and will allow for future integration of flows that are currently conveyed over Boulder Creek via an elevated pipeline from east Gunbarrel.

Sanitary Sewer Manhole Rehab	\$	1,740,000	\$	260,000	\$	270,000 \$	5 280,0	0 \$		300,000	\$	310,000	\$	320,000
This project provides for the rehabilitation and improvement to the	existi	ng wastewate	er mar	nholes that are p	oart c	of the city's waste	ewater colle	tion s	yster	n. The pro	ogram	n is funded at	\$200	,000 per
year (2018) escalated by an inflation index for future years.														

The asset condition assessment shows the need for increased funding to meet system needs. Escalation in program funds begins in 2021.

	Est	imated Total Cost		2021 commended		2022 Projected		2023 Projected		2024 Projected		2025 Projected	Р	2026 ojected
Sanitary Sewer Rehabilitation	\$	22,300,000	\$	3,400,000	\$	3,500,000	\$	3,600,000	\$	3,800,000	\$	3,900,000	\$	4,100,000
his project provides for the rehabilitation and improv er year (2014) escalated at 4% annually in order to educe infiltration of groundwater, and reduce ongoin	rehabilitate the enti	re system in a												
Itility Billing Computer System	\$	62,500	\$	62,500	\$	-	\$	-	\$	-	\$	-	\$	
he existing Utility Billing Computer System is outdat	eu anu neeus upua	iteu. This proj	Ject w	in update the sy	SIEI									
VRRF Digester Cleaning	\$	142,331	\$	142,331	\$	-	\$	-	\$	-	\$	-	\$	
he Boulder Water Resource Recovery Facility has a secondary was cleaned in 2014.	a primary and seco	ndary digeste	r. This	s project is to pr	ovid	le cleaning on a	a 10	)-year cycle. T	he	last time the p	rima	ary was cleaned	d was	; 2012, an
VRRF Digester Complex	\$	3,250,000	\$	3,250,000	\$	-	\$	-	\$	-	\$	-	\$	
his project is to replace the Water Resource Recove nd limiting its ability to handle gas and interrupting w			oating	cover. The cov	er h	as tipped and	faile	ed on several o	cca	asions in recent	t ye	ears taking the s	syste	m offline
VRRF Primary Clarifiers	\$	770,893	\$	-	\$	70,893	\$	700,000	\$	-	\$	-	\$	
The Water Resource Recovery Facility's primary clari leadworks and before the aeration basins (biological nechanisms, drives, walkway bridges, and effluent w	process). The mid	l-term rehabil												e
VRRF Rehabilitation	\$	1,500,000	<u> </u>	250,000		250,000	<u> </u>	250,000		250,000	· ·	250,000	· ·	250,00
he Wastewater Utility Asset Management Planning maller projects.	Tool identified miso	ellaneous rel	nabilit	ation projects no	ot id	lentified in mas	ter j	plan document	S.	This funding co	bulc	be for one pro	ject o	or several
VRRF Secondary Clarifiers	\$	550.000	\$	-	\$	50.000	\$	500.000	\$	-	\$	_	\$	

 WRRF Secondary Clarifiers
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### 2021-2026 Capital Improvement Plan

apital Program Total P-Capital Enhancement Total 17 MP -Wonderland Creek 1 Stm Sew te storm sewer system in Broadway between Fourmile Canyon C fficient level of service. Dudder Creek Flood Mitigation te Boulder Creek Restoration Plan was accepted by City Council ast Pearl te storm sewer system in Downtown Boulder along Pearl Street f ovide a sufficient level of service. Durmile Misc Flood Mitigation tis project provides funding to add an additional culvert at Broadw ainage in future years. This project is categorized as "Essential" tereenways Program - Flood fund tis funding will provide Utilities contributions to the overall Greenw mm the Transportation Fund. This project is for an ongoing fundin teps://bouldercolorado.gov/water/greenways-program tereenways Program-Lottery Fund te funding will provide Lottery funds contributions to the overall greenways terenways Program-Lottery Fund te funding will provide Lottery funds contributions to the overall greenways terenways Program-Lottery Fund	\$ \$ Creek \$ il in Fe \$ from 1 \$ stway in from 1 \$ \$ wways ng pro \$ greenv	684,285 abruary 2016 3,862,873 16th Street to 427,965 1 conjunction the Budgetin 585,000 Program. Fur gram. This pr 906,402	Re S S S and (C S and in S 21st S with t g for S nding roject S	dentified variou 3,862,873 Street requires he Broadway r Resilience fran 97,500 will be prioritiz is categorized 151,067	\$ impro \$ impro \$ s imp \$ econ new(c \$ ed w as "l	provements. Thi provements al rovements. Th struction proje ork. 97,500 ith other fundi important" usin	\$ \$ is pro \$ long \$ ect. If \$ ng in ng th	Boulder Cree aster plan pr t will be used 97,500 the Greenw	\$ \$ s the \$ s the \$ ojec \$ 1 for \$ ays	e storm sewer 	\$ \$ syste \$ ough \$ storn \$ mitig	em in this are - - This project - m sewer syste 202,775 ation efforts a 97,500 will be combin	\$ \$ a to p \$ will p \$ em in \$ along \$ ned w \$	684,28 rovide func this area to 225,190 the 97,500
P-Capital Enhancement Total IT MP -Wonderland Creek 1 Stm Sew Te storm sewer system in Broadway between Fourmile Canyon C fficient level of service. Dulder Creek Flood Mitigation The Boulder Creek Restoration Plan was accepted by City Council ast Pearl Te storm sewer system in Downtown Boulder along Pearl Street f bovide a sufficient level of service. Durmile Misc Flood Mitigation This project provides funding to add an additional culvert at Broadw ainage in future years. This project is categorized as "Essential" Teenways Program - Flood fund This project is for an ongoing fundin the: The Transportation Fund. This project is for an ongoing fundin the: The Transportation Fund. This project is for an ongoing fundin the: The Transportation Fund. This project is for an ongoing fundin the: The Transportation Fund. This project is for an ongoing fundin the: The Transportation Fund the Transportation Fund. This project is for an ongoing fundin the: The Transportation Fund the Transportation Fund the Transportation Fund. This project is for an ongoing fundin the: The Transportation Fund the Transportation Fund the transportation Fund. This project is for an ongoing fundin the: The Transportation Fund the Transportation Fund the transport funde the transport for the overall Greenways Program-Lottery Fund The funding will provide Lottery funds contributions to the overall greenways Program for the the transport funde the total sector funde to the overall greenways Program for the total sector funde to the overall greenways Program for the total sector funde to the total sector funde to the total sector funde for the total sector for the total sector funde for the total sector for total sector for the t	\$ Creek il in Fe from 1 \$ ways in y using \$ ways greenv	122,166,042 386,896 and Wonderl 684,285 abbruary 2016 3,862,873 16th Street to 427,965 n conjunction the Budgetin 585,000 Program. Fur gram. This pr 906,402	\$ and C  \$ and in  \$ 21st \$ with t g for \$ ding oject \$	6,682,674 386,896 Creek requires dentified variou 3,862,873 Street requires - he Broadway r Resilience fran 97,500 will be prioritiz is categorized 151,067	\$ improvements imp	11,704,853	\$ is pro long \$ he m \$ ect. If s in ng in ng th	4,529,548  oject expands  Boulder Crea  aster plan pr  t will be used 97,500 the Greenw	\$ s the \$ ek at \$ ojec \$ l for \$ ays	93,812,500 	\$ syste syste sough \$ storn \$ mitig	1,836,851 	\$ s will p \$ \$ will p \$ \$ alalong \$ ned w	3,599,61 provide a 684,28 rovide func- this area t 225,19 the 97,50 ith funding
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no://boulderealarada.gov/watar/groopwaya.program		his project is f		•	•		onuz				5 010	enways or .	THC.	se iunus v
tps://bouldercolorado.gov/water/greenways-program														
regory Creek Flood Mitigation	\$	9,225,219	\$	-	\$	8,224,574	\$	-	\$	-	\$	-	\$	1,000,64
flood mitigation plan for Gregory Canyon Creek was approved by crease the conveyance capacity of the channel to carry a 10-year													fculv	erts to
tps://bouldercolorado.gov/flood/gregory-canyon-creek-flood-mitig	gation	-study												
ocal Drainage Improvements	\$	6,546,407	\$	986,949	\$	1,026,427	\$	1,067,484	\$	1,110,183	\$	1,154,591	\$	1,200,77
is capital project provides funds to improve local drainage proble ended to address system deficiencies highlighted through custor												nded by this p	orogra	m is
outh Boulder Crk Flood Mitigation	\$	72,000,000	\$	1,000,000	\$	2,000,000	\$	3.000.000	\$	66.000.000	\$	-	\$	
is project is to mitigate flooding in the West Valley from South Be						n the 2015 So	uth							
bulder Creek Flood Mitigation Plan. This project eliminates overto his project is the initial phase and includes construction of a regio											be u	sed to fund c	onstr	uction.
	•		•		•		•				•		•	
ormwater Quality Improvements his program will fund stormwater quality projects as identified in the butaries. This funding can be used for multiple efforts such as inf			ster F		ormw		ngine	213,497 ering staff to		222,037 prove water qu		230,918 in Boulder Cr	· ·	240,18 and its
	masur		nano	e, installation a	inu p	ianning studie	5.							
oper Goose Creek		26,231,713			\$	-				26,231,713			\$	
ere is extensive localized flooding in the upper Goose Creek bas nstruct storm sewer improvements in the upper basin.	asin. T	his project wo	ould e	nlarge the cha	nnel	to provide inc	reas	ed capacity b	oetw	een 19th Stre	et an	d Folsom Str	eet in	order to
P-Capital Maintenance Total	\$	12,371,043	\$	1,918,432	\$	1,928,569	\$	2,003,312		2,090,244	\$	2,169,454	\$	2,261,03
ainageway Maintenance/Enhancement	\$	3,580,000		540,000		560,000		580,000		610,000		630,000		660,00
ne Drainageway Maintenance/Enhancement fund is intended to p diment removal efforts as well as large scale vegetation removal rformed by qualified private contractors. This project is categoriz	al alon	g the drainag	eway	s including effo	orts re	elating to the o	city's	Emerald Asl						
orm Sewer Rehabilitation	\$	4,364,272	¢	657,966	¢	684,285	¢	711,656	¢	740,122	¢	769,727	¢	800,5 <sup>,</sup>

#### 2021-2026 Capital Improvement Plan

	Est	imated Total Cost	-	2021 commended	I	2022 Projected	Р	2023 rojected	F	2024 Projected		2025 Projected	Р	2026 rojected
Transportation Coordination	\$	4,364,272	\$	657,966	\$	684,285	\$	711,656	\$	740,122	\$	769,727	\$	800,516
mprovement projects. This project is for an ongoing fu	unding program.											•		
	unding program. \$	62,500	\$	62,500	\$	-	\$	-	\$	-	\$	_	\$	
improvement projects. This project is for an ongoing fu Utility Billing Computer System This project is for the future upgrade of the Utility Billing	\$	. ,	\$	62,500	\$	-	\$	-	\$	-	\$	-	\$	
Utility Billing Computer System	\$	. ,		62,500 684,285		711,656		740,122	•	769,727	·	800,516		832,537

This project provides on-going funding for the purchase of properties from willing sellers in areas prone to flooding especially the city's high hazard regulatory area. The city periodically updates its flood mapping to reflect changing conditions and improvements in flood modeling. The highest risk properties are identified and prioritized for purchase, based on updated mapping for each of the drainageways. This project is categorized as "Important" using the Budgeting for Resilience framework.

The project is for an ongoing funding program. Funding has been escalated to reflect inflation.

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		Revisi 2018 Budget - Current Year	Bodget	proi	ect	2024
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				ChO		
				510	-	

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Project planning and design for major capital projects takes a project outlined in a master plan and provides more detailed assessment to determine location, function, and design alternatives and preferred approaches. The process for review and approval of individual projects is identified in the annual CIP and budget approval process. At this time, various processes may be identified for a specific project.

- Concept Plan and Site Review: Concept Plans and Site Plans are reviewed by the interdepartmental staff Development Review Committee, departmental Advisory Boards, Planning Board, and City Council (call-up option).
- Community and Environmental Assessment Process (CEAP): The CEAP provides a framework for balanced and thoughtful consideration of environmental and social issues in the preliminary planning and design of capital projects. It also provides a forum for public discussion of broad level project issues relative to master plans and overall community goals. It is a tool to aid in the development and refinement of project design and impact mitigation options.
- Project-Specific Community Process and Design: Many projects are not required to go through concept and site review and would not benefit from a CEAP process. These typically have a projectspecific design and public process to efficiently and appropriately identify community needs, concerns, and preferences. Many projects have been assessed through facility studies, area or facility planning processes, mitigation plans, or other studies. The processes are collaborative with multiple city and/or county departments.





#### **Projects Recommended for a CEAP**

The Appendix to Title 2 of the Boulder Revised Code instructs that major capital improvement projects should be handled in accordance with the City Plans and Projects Handbook, dated November 2007. As such, a list of projects identified to undergo a CEAP is provided with the annual capital budget.

CEAP reviews are prepared when projects are in the site location and facility design phase. The primary purpose of the CEAP is to encourage the consideration of potential social and environmental impacts in planning and decision-making and, ultimately, to arrive at actions that achieve the objectives of the project with the fewest impacts. The intent of the CEAP is to make project planning more efficient by considering issues in advance of implementation.

CEAP findings are submitted by departments to their respective advisory board for review as part of CIP project approval. For those departments that do not have an advisory board, the Planning Board is responsible for reviewing CEAP findings as part of project approval. Council has the opportunity to call up projects for their review and approval. For those departments that do not have an advisory board, Planning Board is responsible for reviewing CEAP findings as part of project approval. The following capital improvement projects included in the 2020-2025 CIP were recommended to complete a Community and Environmental Assessment Process (CEAP).

#### Transportation

**Downtown Boulder Transit Station Improvements:** This project will expand the number of bays along Canyon Boulevard and 14th Street, adjacent to the Downtown Boulder Transit Station. This project is in fulfillment of the Renewed Vision for Transit goals and is funded in part by federal grant funds.

Arapahoe Multi-Use Path/Transit Enhancements: This project will upgrade existing and missing sidewalk sections to multi-use along Arapahoe between Foothills and Cherryvale. It will also enhance existing transit stops and access along the corridor. This project is consistent with the Transportation Master Plan and the East Arapahoe Transportation Plan goals and is funded in part by federal grant funds.

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