2014 Annual Budget
Volume II

City of Boulder, Colorado

2014 Annual Budget Volume II

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City of Boulder
2014 –2019 Capital Improvement Program

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Mayor Pro Tem.....Lisa Morzel

Council Members .....Suzy Ageton

(outgoing council member)

KC Becker

(outgoing council member)

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(incoming Mayor Pro Tem)

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(incoming council member as of November 19, 2013)

Sam Weaver

(incoming council member as of November 19, 2013)

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City of Boulder Staff

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Deputy City Manager ..... Paul J. Fetherston

City Attorney ..... Tom Carr

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Director of Open Space and Mountain Parks ..... Michael Patton

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The City of Boulder's 2014-2019 Capital Improvement Program (CIP) contains information on how the city plans to invest available resources into key infrastructure and facilities between 2014 and 2019. This document contains: planned project funding summaries organized by department, project type, and fund; detail sheets for every project and program included in the plan; maps illustrating the location of projects throughout the city; and narratives describing the rationale behind project prioritization.

Document Organization

The 2014-2019 CIP has five main parts:

- Introduction
- Funding Summaries
- Special Highlights
- Department Projects
- Appendices

Introduction

The Introduction section provides an overview of the 2014-2019 CIP, describes the CIP development process, gives highlights of the CIP, and summarizes factors that influenced the projects included in the plan.

Funding Summaries

The Funding Summaries section contains analysis of how the 2014-2019 CIP allocates dollars among city departments, project types, and funds. Full financial detail can be found in the tables of this section.

Special Highlights

The Special Projects section highlights a major area of concerted effort by the city in 2014: Capital Improvement Bond. This section contains a narrative describing associated projects and other highlights.

Department Projects

The department sections each contain highlights of the department's capital projects and factors that influenced project selection. Following the narrative, the department sections contain department funding summaries, maps that identify the locations of department projects, and project sheets for each of the department's CIP projects.

Appendices

The 2014-2019 CIP contains three appendices. The first appendix contains maps of CIP projects by area of the city. The second appendix contains information on unfunded capital projects and the third contains a list of CEAP projects

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Data Limitations

The 2014-2019 CIP provides the funding plan (amount needed by year) for each CIP project. That is, the amounts analyzed in the document's summary sections and in each project sheet refer to planned budget allocations (sources) instead of expenditures (uses).

Future versions of this CIP will migrate expenditure information into all sections of the document as it becomes available in the city's financial systems.

How to Read Project Financial Data

The 2014-2019 CIP features a new layout for project information. In particular, each project's Capital Funding Plan table has a new format compared to what was used in previous CIPs. The new format of the table brings the CIP in line with formats used to convey financial information in the city's Operating Budget (Volume I, of the Annual Budget).

The Capital Funding Plan section of the project sheets now consists of three tables:

- Estimated Total Cost
- Capital Funding Plan
- Unfunded Amount

Figure 0-01 shows an example of the new tables. The *Estimated Total Cost* table shows the total estimated cost of completing the project. If a project sheet does not have a total cost, then the sheet is for an ongoing program, and the total cost field has been left blank.

For most projects in the CIP, the *Capital Funding Plan* table shows total allocated dollars to the project prior to 2014 and for each year between 2014 through 2019. However, on-going programs, because they have typically received funding for many years before 2014, do not have information about allocated funding prior to 2014. Ongoing programs generally allocate a set amount of funding per year on a continuing basis. Therefore, programs also do not have total cost information. Both blank fields focus the CIP on the coming six years of planned improvements for each on-going program, and by doing so, the CIP does not expect the on-going program to account for prior improvements or future improvements well beyond the CIP's planning horizon that ends in 2019.

The *Unfunded Amount* shows the total project cost from the *Estimated Total Cost* table less the Total Funding Plan from the *Capital Funding Plan* table. The unfunded amount for projects typically represents amounts that will be funded in years beyond the current planning horizon of the CIP.

Figure 0-01: Sample Capital Funding Plan Table

Estimated Total Cost	
Project Cost	
Planning	$900,000
Acquisition	$0
Construction	$8,231,068
Total Project Cost	**$9,131,068**

Unfunded Amount	
Unfunded Amount	
Project Cost Total	$9,131,068
Funding Total	($3,343,225)
Total Unfunded	**$5,787,843**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund	$175,600	$520,000	$540,800	$0	$674,918	$701,915	$729,992
Total Funding Plan	**$3,343,225**						

City of Boulder

INTRODUCTION

2014-2019 Capital Improvement Program

The City of Boulder's Capital Improvements Program (CIP) is a comprehensive, 6-year plan for maintaining and enhancing public infrastructure by correcting current facility deficiencies and constructing new service-delivery 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 6-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 has made significant investments to provide its current level of municipal services. The city owns and maintains 330 facilities, 1,880 acres of parkland, 44,921 acres of Open Space and Mountain Parks (OSMP), 305 centerline miles of streets, 159 centerline miles of bike facilities, 78 underpasses, three water treatment facilities, and 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. The city continues to look for ways to leverage its funding, through federal, state, and local grants and reimbursements, to maximize funding for CIP projects.

Municipal Building Construction, 1951. Photo courtesy the Carnegie Branch Library for Local History, Boulder Historical Society Collection.

The CIP development process prioritizes the city's numerous needs spread across its 16 different departments, bearing in mind the limits of each funding source, progress on ongoing CIP projects, and funding commitments made by prior CIPs. To create a citywide understanding of which projects are chosen for inclusion in the CIP, the city developed nine CIP Guiding Principles to shape capital planning decisions made throughout the CIP process. The CIP Guiding Principles also ensure individual department priorities for CIP funding are aligned with city goals. Figure 1-1 lists the CIP Guiding Principles.

The 2014-2019 CIP includes funding for $238.73 million for 135 projects. 54 projects are recommended for funding in 2014, totaling $42.4 million. Proposed 2014-2019 allocations are $20.93 million greater than 2013-2018 allocations ($217.80) presented in the 2013-2018 CIP. The recommended 2014 allocations are $8.63 million greater than approved 2013 allocations

Figure 1-1: CIP Guiding Principles

The City of Boulder develops a Capital Improvement Program (CIP) that addresses the ongoing major business needs and maintenance and repair of city assets as well as enhancements and expansion called for in the Boulder Valley Comprehensive Plan. The CIP is a strategic document that assures that the municipal organization maintains a strong bond rating, implements community values, and has fiscal integrity. The city prioritizes its investments both across and within funds based on the following guiding principles:

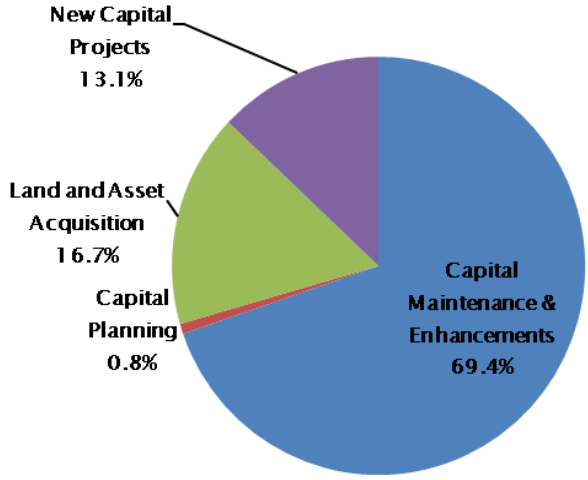
1. **Capital Improvement Programs should be consistent with and implement Council-accepted master plans and strategic plans.**
2. **Capital Improvements should achieve Community Sustainability Goals:**
    - Environmental – sustainable materials, construction practices, renewable resources, etc.
    - Social – enhancements that improve accessibility to city services and resources provided to the community
    - Economic – effective and efficient use of public funds across the community.
3. **As potential capital investments are identified, the city must demonstrate in the CIP process that there are sufficient funds to operate and maintain the project or program.**
4. **Capital Improvement Programs should provide enough capacity and flexibility in our long-term planning to be able to respond to emerging, unanticipated needs.**
5. **Capital Improvement Programs should maintain and enhance the supporting city-wide "business systems", such as information and finance systems, for the city over the long term.**
6. **Capital Improvement Programs should sustain or improve maintenance of existing assets before investing in new assets.**
7. **Capital improvements should:**
    - Meet legal mandates from federal, state, or city levels
    - Maintain or improve public safety and security
    - Leverage external investments
    - Promote community partnerships
    - Reduce operating costs and improve efficiency.
8. **Capital programming should maximize efficiency of investments demonstrated by measurable cost/benefit analyses and coordination of projects across departments within and across funds.**
9. **The Capital Improvement Program should provide sufficient reserves to allow for a sound fiscal foundation with benefits that include:**
    - A strong bond rating
    - The ability to address emergencies and natural disasters.

($33.77 million). The 2011 Capital Improvement Bond proceeds are not included in these totals because allocations for the bond occurred in 2012. The primary reasons for the increase in 2014-2019 are the additional grant-supported projects in Public Works/Stormwater and Flood Management, the transfer of Information Technology projects from the operating budget to the CIP, a one-time project at the Municipal Airport, and a rise in OSMP land acquisition funding. The one year increase in 2014 is mainly due to large flood utility projects, as well as the ongoing increase in OSMP land acquisition funding. The city regularly sets aside money in its CIP to save for future projects. This important budget practice leads to better planning by allowing the city to pay for higher dollar projects over time rather than requiring the city to find funding in a single budget year.

The city is spending the majority, over 69 percent, of its 2014 capital funds on capital maintenance and enhancement of its existing assets (See Figure 1-2). Capital enhancements involve upgrades to existing facilities, such as replacement of irrigation systems with updated technologies, materials and equipment that can be more efficient, effective and less costly to operate over time.

The CIP focuses on taking care of what the city already owns with an emphasis on making improvements to its core service areas.

Figure 1-2: 2014 Projects by Category



CIP Highlights

The city anticipates completing a significant number of Capital Projects in 2013 and 2014. These projects benefit the City of Boulder, its residents and visitors by maintaining key infrastructure and functionality, maintaining and improving the transportation network, providing greater safety, maintaining and improving recreational facilities and natural lands, and maximizing the use of technology for greater efficiency and better service delivery. A few examples of these are listed below. Additional details on 2013 accomplishments and highlights of the 2014-2019 CIP are noted in the department overviews.

[Please note that Capital Improvement Bond projects are included in this list.]

2013 Accomplishments

- Completed CAGID Garage new signage program
- Completed 28th Street Multi-Use Path from Colorado Avenue to Baseline Avenue
- Completed 15th Street Streetscape Improvements
- Completed Wonderland Creek Diagonal to Winding Trail improvements

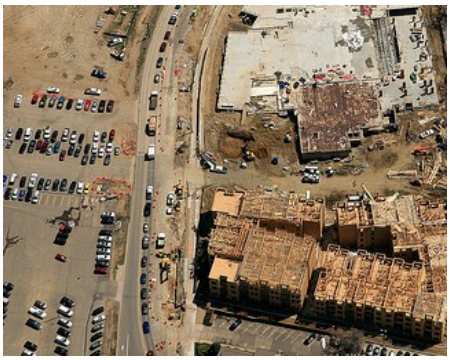
- Constructed a trailhead on the west side of SH 119 at Chapman Drive
- Completed Phase IA of Valmont City Park
- Replaced South Boulder Recreation Center gym, Pilates room, and racquetball court flooring
- Completed Valmont Butte Voluntary Clean-up Program (VCUP)
- Completed the Wastewater Treatment Facility Headworks-Digester-Ultraviolet Disinfection Improvements
- Completed procurement and began implementation of new integrated finance, human resources and payroll system
- Completed and redesigned city's website and implementation of new e-services

The rock cap completed as part of the Valmont Butte voluntary clean-up Program.

2014 Planning and Construction

- Continue Downtown/Pearl Street Mall Improvements and Amenities Replacement
- Goose Creek Restoration Project
- Installation of two bridges to connect sections of the IBM Connector Trail, and the South Boulder Creek Trail
- Flagstaff Summit recreation area refurbishment
- Park shelter improvements at Arapahoe Ridge Park and Crestview Park
- Boulder Junction Improvements including: Pearl Parkway Multi-way Boulevard - 30th east to the railroad tracks and Multi-use Path TIP Project - 30th to 47th and the Junction Place Bridge over Goose Creek
- Arapahoe Reconstruction from Folsom to 15th Street
- Preliminary design for the Betasso Water Treatment Facility project

The completed UV Disinfection Improvements at the Wastewater Treatment Facility



Aerial photo of the Pearl Parkway Multi-way Blvd under construction. Photo courtesy MKS Residential/Reylenn Construction

Challenges

Each year, as the CIP is being updated, City Council, advisory boards, and staff consider technical, environmental, and financial challenges that could potentially limit the ability of the city to fund its priority projects. Challenges being identified in the 2014-2019 CIP include the revenue constraints, construction cost inflation, operational funding, and unfunded projects.

Revenue Constraints

Revenue has slowly recovered over the past few years; however, a structural gap between needs and resources still remains. The city faces five expiring revenue sources over the next six years. The city's Utility Occupation Taxes for the General Fund and Municipal Exploration both expire in 2017, the Climate Action Plan tax and the Open Space .33 percent sales tax expire in 2018, and the Open Space .15 percent sales tax expires in 2019. If these revenues are not renewed by voters, the reduction in available resources could impact planned CIP funding in selected categories and the structural gap may grow.

Construction Cost Inflation

The *Engineering News Record* Construction Cost Index for Denver and the Colorado Department of Transportation (CDOT) Colorado Construction Cost Index indicate that construction costs are escalating at a rate of 4 percent, based on a 5-year rolling average. The 2012 change was significantly higher than the 5-year rolling average with ENR and CDOT indices increasing 8 percent and 17 percent, respectively, over 2011. A higher cost escalator will reduce the amount of work that can be done with planned revenues, in particular, over the planning horizon of the CIP.

Operational Funding

The organization continues to face the challenge of increased operating and maintenance (O&M) costs associated with new capital improvements. The current CIP strives to identify O&M cost increases associated with projects and to identify funding for this. It also identifies O&M savings produced by capital enhancements.

Unfunded Projects

The city continues to have a large number of unfunded needs. The 2014-2019 CIP includes a list of the top five unfunded projects of each department/program.

Opportunities

Similarly, there are issues that positively impact the city's capital investment performance. Opportunities identified in the 2014-2019 CIP include the Capital Investment Strategy, the CIP Peer Review Team, and the city's Comprehensive Financial Strategy.

Capital Investment Strategy

A Capital Bond initiative was passed by the City of Boulder voters in November of 2011. As a result of this, the city was able to leverage existing revenues to borrow $49 million to fund capital projects. Many of the bond funded projects are still ongoing and additional information on the projects is included in a separate section of this document.

CIP Peer Review Team

The CIP Peer Review Team (PRT) is a cross-departmental team that assists departments with the prioritization of projects, focusing on city-wide priorities rather than department specific needs. The PRT identifies possible budget and city -wide policy issues, potential project conflicts, opportunities for project coordination, and consistency with CIP Guiding Principles.

City's Comprehensive Financial Strategy

A cross-departmental team will undertake the update of the city's Comprehensive Financial Strategy. Work associated with this project will commence in summer 2013 and preliminary findings from the analysis are expected to be presented to the City Council in first quarter 2014.

The purpose of the project will be to review and update the revenue and expenditure components of the city's Comprehensive Financial Strategy to reflect current and projected economic and budgetary conditions, challenges, and issues to meet the strategic needs of the municipal corporation over the next five years. The project will involve the examination of the BRC I and BRC II implementation efforts to date. The project also will include the evaluation of many different areas affecting the city's Comprehensive Financial Strategy including the current capital needs assessments and the feasibility of a ballot initiative for the second phase of capital bonding.

The 2011 Capital Bond is approximately half way through the implementation phase.

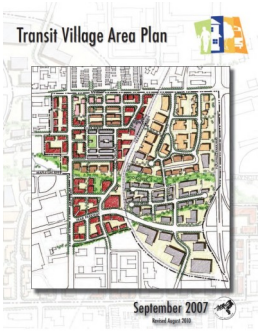
Implementation of Subcommunity & Area Plans

North Boulder Subcommunity Plan

The North Boulder Subcommunity Plan (NoBo Plan) was adopted by the city in 1995. Much of the planning area has now been developed or is approved for development, and a significant number of Capital Improvements have been made in the area. Proposed Capital Improvements in the next six years include Wonderland Creek and Fourmile Canyon Creek Flood and Greenways Improvements, Violet Park development in coordination with Greenways, and 28th Street Pedestrian Improvements from Iris to Yarmouth.

Boulder Junction

The Boulder Junction area includes the Transit Village Area Plan (TVAP), adopted by the city in 2008, which covers 160 acres. Implementation of the plan is underway, with the first two private development projects approved by the city and capital projects are currently under construction, including the Pearl Parkway Multiway Boulevard, Construction of a bridge over Goose Creek, Utility infrastructure installation, and a multi-use path along Pearl Parkway. Proposed Capital Investments in the next six years include construction of Junction Place north Pearl Parkway, a new pocket park at Junction Place and Goose Creek, and traffic signal installations.



The Transit Village Area Plan was adopted in 2007.

Gunbarrel Community Center Area Plan

The Gunbarrel Community Center Plan was adopted in 2004. The Gunbarrel Town Center redevelopment has been approved, which is a key implementation project for the plan. Several

public infrastructure improvements will be constructed by the developer in conjunction with this project. Projects include: a multi-use path along Lookout Road, a new street with on-street parking, and new sidewalks on Spine Road and 71st Street.

Downtown Boulder

The future vision for downtown Boulder was developed through the Downtown Alliance, and its final report in 1997. While significant private and public investment has occurred since that time, continual investments in the downtown are needed to continue to ensure downtown remains a primary community gathering place, business and commercial center, and tourism attraction. In the next six years, projects in Downtown include ongoing parking garage maintenance, Pearl Street Mall Irrigation system replacement, 15th Street pedestrian improvements, West Pearl Street streetscape improvements and continued street and sidewalk repair.

Civic Area Plan

The Civic Area Plan is underway, and will develop a community-powered vision for the study area and better define the area's role in the larger city. The plan is slated for approval in the fall of 2013. Several catalyst public improvement projects are proposed for funding in 2014, including renovation of the Lumber Park playground, reconstruction of the Library North Plaza and Flood Improvements to the Main Library.

Projects Recommended for CEAP

The projects that are proposed to be evaluated under Community and Environmental Assessment Process (CEAP) review are listed in Appendix B, and the individual project sheets identify if a CEAP is required. The purpose of a CEAP is defined to "assess potential impacts of conceptual project alternatives in order to inform the selection and refinement of a preferred alternative."

CEAP findings are submitted by departments to their respective advisory board for review as part of CIP 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.)

CIP Process

The annual CIP process can be divided into three parts: Planning, Project Review, and Board Review/City Council Adoption. The responsibility for coordinating the process citywide is shared by the Department of Community Planning & Sustainability and the Finance Department.

Planning

The first phase of the process identifies and prioritizes the needs of the community. This is done by applying Boulder's Sustainability Framework to ensure that the CIP aligns with and advances the wide range of goals and priorities of the City Council and community. The seven categories of the Sustainability Framework build upon the Boulder Valley Comprehensive Plan and the city's

Priority Based Budgeting (PBB) approach: two key initiatives that define long-term community goals and priorities. Both the BVCP and PBB were developed from extensive community input processes and are used to guide long-term decision making as well as the city's annual budget process.

The Sustainability Framework ensures that subcommunity and area plans and departmental master plans are aligned with the CIP. Subcommunity and area plans provide more detailed planning for land use, urban design, neighborhood revitalization, and public facility needs for a specific area of the city. Departmental master plans include details about and funding plans for future needs related to services and facilities. The master plans are used by each department during their decision making and prioritization as part of the annual budgeting and CIP processes. Figure 1-3 illustrates the relationship between the Sustainability Framework, BVCP, PBB, Subcommunity and Area Plans, Master Plans, and the CIP.

Figure 1-3: Sustainability Framework

Project Review

The second phase engages each department proposing projects for the CIP in a citywide review process. Proposed projects are reviewed by the CIP PRT. After the PRT's review of projects, the city's Executive Budget Team also reviews the project information and provides feedback to departments before departments propose projects for inclusion in the draft CIP.

Board Review and City Council Adoption

The final phase involves review by department advisory boards, the Planning Board, and City Council. Department advisory boards review their department's proposed CIP projects and make recommendations to the Planning Board and City Council.

Section 78 of the City Charter calls for the city Planning Department to prepare the annual CIP with other city departments for submittal to the City Manager. The Planning Board evaluates and makes recommendations to the City Manager and City Council on the draft CIP. The Planning Board's review of the CIP includes the relationship of projects to the policies of the BVCP, subcommunity plans, area plans and departmental master plans.

City Council reviews the draft CIP in August, and provides feedback to the City Manager prior to final budget development. City Council appropriates funds for the first year of the CIP through the budget ordinances. While Colorado state law limits appropriations to the first year of the CIP, the succeeding five years of the annual CIP are important in providing a longer term plan for setting funding priorities, scheduling projects in a logical sequence, and coordinating and targeting capital improvements for all city departments.

CIP Process Changes

The CIP document and process have undergone significant changes over the past four years to improve the selection of projects and communication of information on selected projects. The CIP Guiding Principles have been the foundation for all project selection and CIP process improvements.

Many of the changes made to the CIP have focused on improving the financial information included in the CIP document, through a partnership with the Finance Department and Department of Community Planning & Sustainability.

One of the biggest changes in the 2014-2019 CIP is the change of the city's Capital Project Definition and Project Categories. These changes (see Figure 1-4) are designed to simplify how projects are categorized in the CIP and create consistency among departments in what projects are included in the CIP. Other changes in the 2014-2019 CIP include a revised Unfunded Project section, and enhancements to how funding information is communicated on project sheets.

The city will continue to make improvements to the CIP in future years. Changes planned for the future include updates to the CIP section of the City Plans and Project Handbook, adding project expenditure and schedule information to the document, and incorporating performance

Figure 1-4: CIP Definition and Criteria

Capital Improvement Program Projects

"CIP projects are any major projects requiring the expenditure of public funds (over and above operation expenditures) for the purchase, construction, or replacement of the physical assets of the community. This broad definition includes those projects that are bondable, technology infrastructure, new or expanded physical facilities as well as the land necessary for the project."

Criteria for New Capital Project:

- Projects resulting in the construction or acquisition of a new asset.
- Construction resulting in additional square footage of an existing asset.
- Projects have a discrete start and end date.
- Projects are location specific.
- Projects are typically over $50,000 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.

Criteria for Capital Enhancement:

- Construction resulting 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 $50,000 in total project cost, but do not have to be. Information Technology projects are typically over $25,000 in total project cost.
- Projects result in a durable, long lasting asset, with a useful life of at least 15 years. Information Technology projects may be as short as 5 years.

Criteria for Capital Maintenance:

- Projects result 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 $50,000 in total project cost. Information Technology projects are typically over $25,000 in total project cost.
- Projects result in a durable, lasting physical asset, with a useful life of at least 5 years. Information Technology projects may be as short as 3 years.

Criteria for Land & Asset 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 city-wide.
- Projects or programs typically include acquisitions totaling over $50,000.

Criteria for 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 capital program.
- Projects have discrete start and end date.
- Projects are typically for studies that are over $50,000 in total cost.

City of Boulder

FUNDING SUMMARIES

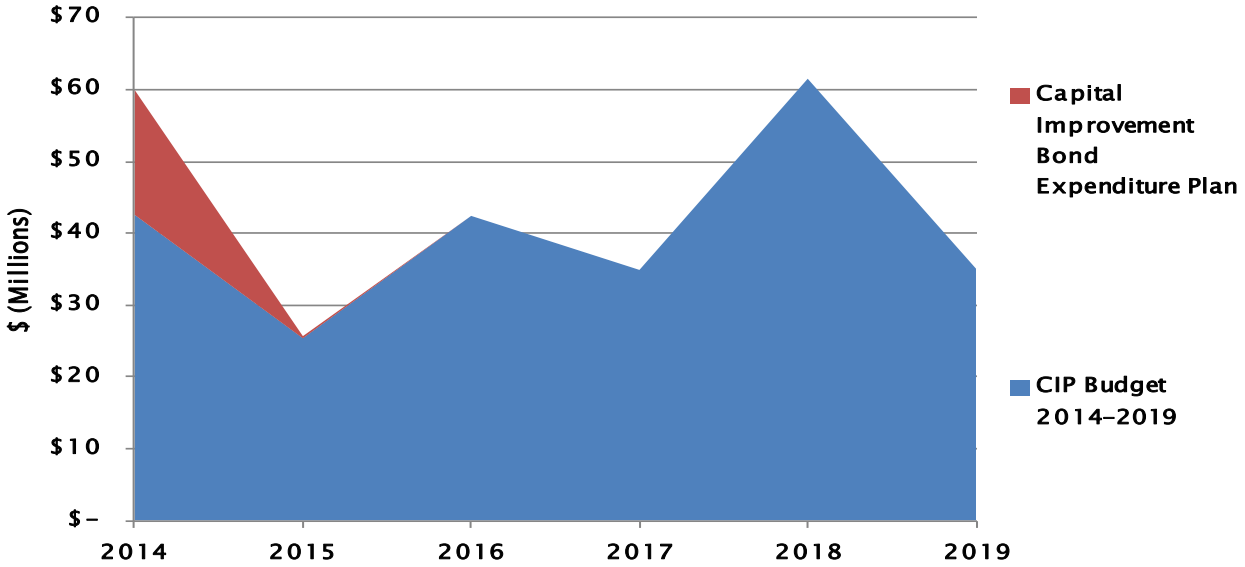
2014-2019 Capital Improvement Program

The Funding Summaries section provides full detail of the city's CIP budget needs from 2014 through 2019 by department, project type, and fund. For each of the three funding views, the following information is shown:

- Total project cost
- Planned funding allocation in each year 2014-2019 and the six-year total
- Prior funded amount
- Unfunded amount

The Funding Summaries focus on estimated budget needs (sources) for all projects. The CIP this year shows limited instances of planned or actual expenditures at a project, department, or fund level. 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. Figure 2-1 shows total CIP funding for 2014-2019. Funding varies year over year depending on specific project plans. For example, 2018 includes the Carter Lake Pipeline project which carries a significant cost.

Figure 2-1: Total Projected CIP Funding by Year[1]



Notes:

1 The Red area is the 2014-2015 portion of the 2011 Capital Improvement Bond funds. These bonds were sold and funding appropriated in 2012. The blue area is planned allocations of 2014-2019 funding for all other projects.

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. The summary information included in the introduction removes transfers to avoid double counting and to correctly express the total project funding of the CIP.

FUNDING BY DEPARTMENT

The following city departments are participating in the 2014-2019 CIP:

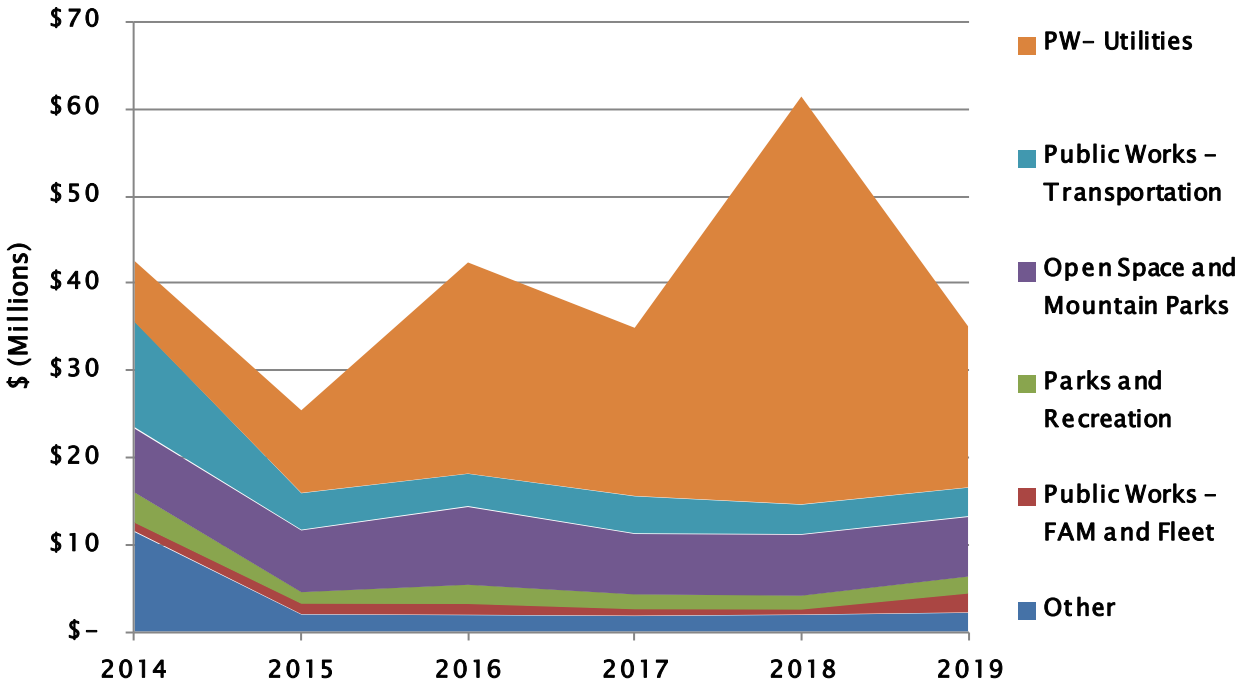
- Downtown / University Hill Management Division and Parking Services (DUHMD/PS
- Information Technology (IT)
- Open Space and Mountain Parks (OSMP)
- Parks and Recreation
- Public Works (PW) - Facilities Asset Management (FAM)
- PW-Greenways
- PW-Municipal Airport
- PW—Stormwater and Flood Management Utility
- PW-Transportation
- PW-Wastewater Utility
- PW-Water Utility

The Public Works divisions of Utilities and Transportation have the greatest allocations of resources in the 2014-2019 CIP. Major renovations to water facilities are primarily responsible for the large spikes in allocations during 2016 and 2018. Transportation also has a large allocation of CIP investment. The spike in 2014 for this department is associated with federal transportation grants.

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 throughout 2014-2018.

Figure 2-2 displays the share of total 2014-2019 CIP spending on each department.

Figure 2-2: 2014-2019 Funding by Department



Other includes DUHMD/PS, Information Technology, Public Works - Municipal Airport, and Public Works - Greenways

Table 2-1: 2014-2019 Funding Summary By Department

SUMMARY OF ALL DEPARTMENTS

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
DUHMD / Parking Services	$ 535,500	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 2,400,000	$ 50,000	$ 85,500
Information Technology	135,000	638,750	1,245,171	670,541	571,893	699,503	1,196,924	5,022,782	135,000.00	-
Open Space and Mountain Parks	6,929,486	7,353,000	7,105,300	8,955,300	6,955,300	7,005,300	6,855,300	44,229,500	1,162,486	-
Parks and Recreation	13,303,195	3,518,944	1,380,400	2,255,700	1,755,400	1,649,400	2,000,000	12,559,844	1,394,951	-
Public Works - FAM and Fleet	8,253,000	1,037,000	1,280,000	1,327,000	819,000	650,000	2,250,000	7,363,000	340,000	900,000
Public Works - Greenw ays	21,747,084	8,945,000	320,441	820,441	820,441	820,441	570,441	12,297,205	9,081,643	668,236
Public Works - Municipal Airport	1,555,555	1,555,555	-	-	-	-	-	1,555,555	-	-
Public Works - Stormw ater and Flood Management Utility	33,780,163	1,221,500	1,421,460	2,022,418	7,674,416	2,177,491	2,489,692	17,006,977	300,000	24,480,163
Public Works - Transportation	18,496,993	12,107,500	4,158,500	3,681,500	4,213,500	3,351,500	3,251,500	30,764,000	6,279,000	-
Public Works - Wastew ater Utility	20,062,527	1,794,000	3,229,136	1,244,918	2,718,819	2,804,589	4,284,365	16,075,827	886,247	7,397,922
Public Works - Water Utility	95,490,954	4,025,000	4,861,595	21,054,780	8,971,794	41,986,970	11,780,367	92,680,506	6,132,203	-
Total	**$ 220,289,457**	**$ 42,596,249**	**$ 25,402,003**	**$ 42,432,598**	**$ 34,900,563**	**$ 61,545,194**	**$ 35,078,589**	**$ 241,955,196**	**$ 25,761,530**	**$ 33,531,821**

Table 2-1: 2014-2019 Funding Summary By Department (Cont.)

DOWNTOWN AND UNIVERSITY HILL MANAGEMENT DIVISION (DUHMD) / PARKING SERVICES

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Maintenance										
Downtown 14th Street Parking Lot Improvements	$ 285,500	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 150,000	$ 50,000	$ 85,500
Downtown Parking Garage Major Maintenance	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	-	-
Downtown/Pearl St Mall Amenities Replacement	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
Subtotal	$ 535,500	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 2,400,000	$ 50,000	$ 85,500
Total	**$ 535,500**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 2,400,000**	**$ 50,000**	**$ 85,500**

INFORMATION TECHNOLOGY

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
JSI Upgrade	$ 135,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 135,000	$ -
Subtotal	$ 135,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 135,000	$ -
Capital Maintenance										
Data Backup and Disaster Recovery	$ -	$ -	$ -	$ -	$ -	$ 44,000	$ 85,000	$ 129,000	$ -	$ -
End User Device Replacement	-	458,000	458,000	458,000	458,000	458,000	458,000	2,748,000	-	-
Network Hardware Replacement	-	150,000	160,671	148,041	113,893	116,503	612,224	1,301,332	-	-
Security Administration	-	5,250	11,500	54,000	-	-	6,700	77,450	-	-
Server Admin Hardware Repalcement	-	25,500	615,000	10,500	-	81,000	35,000	767,000	-	-
Subtotal	$ -	$ 638,750	$ 1,245,171	$ 670,541	$ 571,893	$ 699,503	$ 1,196,924	$ 5,022,782	$ -	$ -
Total	**$ 135,000**	**$ 638,750**	**$ 1,245,171**	**$ 670,541**	**$ 571,893**	**$ 699,503**	**$ 1,196,924**	**$ 5,022,782**	**$ 135,000**	**$ -**

Table 2-1: 2014-2019 Funding Summary By Department (Cont.)

OPEN SPACE AND MOUNTAIN PARKS

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
OSMP - Historical Structures & Trails - Stabilization & Restoration	$ -	$ 343,000	$ 355,300	$ 355,300	$ 355,300	$ 355,300	$ 355,300	$ 2,119,500	$ 343,000	$ -
OSMP North Trail Study Area (NTSA)	600,000	50,000	50,000	100,000	200,000	100,000	50,000	550,000	50,000.00	-
OSMP West Trail Study Area (WTSA)	3,319,486	500,000	550,000	550,000	450,000	600,000	50,000	2,700,000	619,486.00	-
Visitor Infrastructure - System Wide	-	350,000	300,000	250,000	200,000	200,000	500,000	1,800,000	-	-
OSMP East Trail Study Area (ETSA)	300,000	-	-	-	50,000	50,000	200,000	300,000	-	-
Subtotal	$ 4,219,486	$ 1,243,000	$ 1,255,300	$ 1,255,300	$ 1,255,300	$ 1,305,300	$ 1,155,300	$ 7,469,500	$ 1,012,486	$ -
Capital Maintenance										
OSMP ReRoute Flagstaff Trail bt Crow n Rock and Baseline	$ 120,000	$ 120,000	$ -	$ -	$ -	$ -	$ -	$ 120,000	$ -	$ -
OSMP ReRoute Green Mountain West Ridge	60,000	60,000	-	-	-	-	-	60,000	-	-
OSMP ReRoute Saddle Rock Trail	65,000	65,000	-	-	-	-	-	65,000	-	-
OSMP ReRoute Ute and Range View Trails	65,000	65,000	-	-	-	-	-	65,000	-	-
Subtotal	$ 310,000	$ 310,000	$ -	$ -	$ -	$ -	$ -	$ 310,000	$ -	$ -
Land and Asset Acquisition										
Mineral Rights Acquisition	$ -	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 600,000	$ -	$ -
OSMP Real Estate Acquisition Program	-	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	-	-
Water Rights Acquisition	-	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	-	-
Subtotal	$ -	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 34,200,000	$ -	$ -
New Capital Project										
South Boulder Creek Instream Flow	$ 2,400,000	$ 100,000	$ 150,000	$ 2,000,000	$ -	$ -	$ -	$ 2,250,000	$ 150,000	$ -
Subtotal	$ 2,400,000	$ 100,000	$ 150,000	$ 2,000,000	$ -	$ -	$ -	$ 2,250,000	$ 150,000	$ -
Total	**$ 6,929,486**	**$ 7,353,000**	**$ 7,105,300**	**$ 8,955,300**	**$ 6,955,300**	**$ 7,005,300**	**$ 6,855,300**	**$ 44,229,500**	**$ 1,162,486**	**$ -**

Table 2-1: 2014-2019 Funding Summary By Department (Cont.)

PARKS AND RECREATION

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Civic Area Improvements - Lumber Park	$ 300,000	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ -	$ -
Flatirons Golf Course Irrigation System Replacement	1,795,263	1,200,000	-	-	-	-	-	1,200,000	595,263	-
NBRC: Interior Circulation Study/Improvements	280,000	-	280,000	-	-	-	-	280,000	-	-
Thunderbird Lake Enhancements	250,000	-	250,000	-	-	-	-	250,000	-	-
Artificial Turf Field Installation	1,500,000	-	-	500,000	500,000	500,000	-	1,500,000	-	-
Lighting Ordinance Implementation	500,000	-	-	250,000	250,000	-	-	500,000	-	-
Playground and Park Irrigation System Renovation	1,360,300	-	-	530,300	530,000	300,000	-	1,360,300	-	-
Subtotal	$ 5,985,563	$ 1,500,000	$ 530,000	$ 1,280,300	$ 1,280,000	$ 800,000	$ -	$ 5,390,300	$ 595,263	$ -
Capital Maintenance										
ADA Compliance Improvements	$ 400,000	$ 100,000	$ 100,000	$ 100,000	$ -	$ -	$ -	$ 300,000	$ 100,000	$ -
Pearl Street Mall Irrigation System Replacement	1,500,000	500,000	550,000	-	-	-	-	1,050,000	450,000	-
Pool Replastering	230,000	100,000	75,000	-	-	-	-	175,000	55,000	-
Subtotal	$ 2,130,000	$ 700,000	$ 725,000	$ 100,000	$ -	$ -	$ -	$ 1,525,000	$ 605,000	$ -
Aquatic Facility Plan	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
Subtotal	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
Land and Asset Acquisition										
Boulder Junction - Historic Train Depot Land Cost Reconciliation	$ 787,405	$ 787,405	$ -	$ -	$ -		$ -	$ 787,405	$ -	$ -
Boulder Junction Rail Plaza	1,874,000	-	-	-	-	374,000	1,500,000	1,874,000	-	-
Subtotal	$ 2,661,405	$ 787,405	$ -	$ -	$ -	$ 374,000	$ 1,500,000	$ 2,661,405	$ -	$ -
New Capital Project										
Boulder Junction Pocket Park	$ 1,926,227	$ 281,539	$ -	$ 750,000	$ 350,000	$ 350,000	$ -	$ 1,731,539	$ 194,688	$ -
Violet Park	500,000	-	-	-	-	-	500,000	500,000	-	-
Subtotal	$ 2,426,227	$ 281,539	$ -	$ 750,000	$ 350,000	$ 350,000	$ 500,000	$ 2,231,539	$ 194,688	$ -
Transfer										
Tributary Greenways Program - Lottery	$ -	$ 150,000	$ 125,400	$ 125,400	$ 125,400	$ 125,400	$ -	$ 651,600	$ -	$ -
Subtotal	$ -	$ 150,000	$ 125,400	$ 125,400	$ 125,400	$ 125,400	$ -	$ 651,600	$ -	$ -
Total	**$ 13,303,195**	**$ 3,518,944**	**$ 1,380,400**	**$ 2,255,700**	**$ 1,755,400**	**$ 1,649,400**	**$ 2,000,000**	**$ 12,559,844**	**$ 1,394,951**	**$ -**

Table 2-1: 2014-2019 Funding Summary By Department (Cont.)

PUBLIC WORKS - FACILITIES AND ASSET MANAGEMENT (FAM) / FLEET

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Main Library - Flood Protection	$ 400,000	$ 400,000	$ -	$ -	$ -	$ -	$ -	$ 400,000	$ -	$ -
North Boulder Recreation Center - Replace Solar Thermal System	350,000	-	350,000	-	-	-	-	350,000	-	-
Outdoor Lighting Compliance Improvements	200,000	-	150,000	50,000	-	-	-	200,000	-	-
Stazio Refurbish Restrooms and Concessions	160,000	-	160,000	-	-	-	-	160,000	-	-
East Boulder Community Center Renovation	1,100,000	-	-	-	-	100,000	100,000	200,000	-	900,000
Tantra Shop Renovation	300,000	-	-	-	-	-	300,000	300,000	-	-
West Senior Center Major Maintenance & Rehab	700,000	-	-	-	-	-	700,000	700,000	-	-
Subtotal	$ 3,210,000	$ 400,000	$ 660,000	$ 50,000	$ -	$ 100,000	$ 1,100,000	$ 2,310,000	$ -	$ 900,000
Capital Maintenance										
Fleet Services, Rpl Emergency Generator +	$ 400,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ 100,000	$ -
Main Library Reconstruct North Plaza	147,000	147,000	-	-	-	-	-	147,000	-	-
Miscellaneous Facility DET Projects	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	50,000	-
Miscellaneous Facility Maintenance Projects	2,495,000	340,000	370,000	415,000	380,000	400,000	400,000	2,305,000	190,000	-
Mapleton Ballfields, Renovate Concessions and Restrooms +	100,000	-	100,000	-	-	-	-	100,000	-	-
East Boulder Community Center - Replace Pool Air Handlers	500,000	-	-	500,000	-	-	-	500,000	-	-
Replaster Pools +	80,000	-	-	80,000	-	-	-	80,000	-	-
Stazio Tensile Canopy Covering Replacement	132,000	-	-	132,000	-	-	-	132,000	-	-
Martin Park Shelter Major Maintenance	169,000	-	-	-	169,000	-	-	169,000	-	-
North Boulder Park Shelter Repair	120,000	-	-	-	120,000	-	-	120,000	-	-
FlatIrons Event Center Major Repairs	600,000	-	-	-	-	-	600,000	600,000	-	-
Subtotal	$ 4,743,000	$ 587,000	$ 570,000	$ 1,227,000	$ 769,000	$ 500,000	$ 1,100,000	$ 4,753,000	$ 340,000	$ -
Capital Planning Studies										
Facility Assessments	$ 300,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Subtotal	$ 300,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Total	**$ 8,253,000**	**$ 1,037,000**	**$ 1,280,000**	**$ 1,327,000**	**$ 819,000**	**$ 650,000**	**$ 2,250,000**	**$ 7,363,000**	**$ 340,000**	**$ 900,000**

Table 2-1: 2014-2019 Funding Summary By Department (Cont.)

PUBLIC WORKS - GREENWAYS

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Wonderland Creek (28th) Kalmia to Winding Trail	$ 5,915,441	$ 4,295,000	$ 270,441	$ -	$ -	$ -	$ -	$ 4,565,441	$ 1,350,000	$ -
Fourmile Canyon Creek Upland to Violet	3,500,000	-	-	770,441	770,441	770,441	520,441	2,831,764	-	668,236
Fourmile Canyon Creek at Crestview & 19th	2,222,159	600,000	-	-	-	-	-	600,000	1,622,159	-
Wonderland Creek Foothills to 30th	10,109,484	4,000,000	-	-	-	-	-	4,000,000	6,109,484	-
Subtotal	$ 21,747,084	$ 8,895,000	$ 270,441	$ 770,441	$ 770,441	$ 770,441	$ 520,441	$ 11,997,205	$ 9,081,643	$ 668,236
Capital Maintenance										
Miscellaneous Water Quality, Restoration and Trail Improvements	$ -	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Subtotal	$ -	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Total	**$ 21,747,084**	**$ 8,945,000**	**$ 320,441**	**$ 820,441**	**$ 820,441**	**$ 820,441**	**$ 570,441**	**$ 12,297,205**	**$ 9,081,643**	**$ 668,236**

PUBLIC WORKS - MUNICIPAL AIRPORT

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Maintenance										
Rehabilitate Portion of Aircraft Parking Ramp	$ 1,555,555	$ 1,555,555	$ -	$ -	$ -	$ -	$ -	$ 1,555,555	$ -	$ -
Subtotal	$ 1,555,555	$ 1,555,555	$ -	$ -	$ -	$ -	$ -	$ 1,555,555	$ -	$ -
Total	**$ 1,555,555**	**$ 1,555,555**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,555,555**	**$ -**	**$ -**

Table 2-1: 2014-2019 Funding Summary By Department (Cont.)

PUBLIC WORKS - STORMWATER AND FLOOD MANAGEMENT UTILITY

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Stormwater Quality Improvements	$ -	$ 104,000	$ 108,160	$ 112,486	$ 116,986	$ 121,665	$ 126,532	$ 689,829	$ -	$ -
Upper Goose Creek Drainage	17,905,163	-	175,000	750,000	750,000	750,000	1,000,000	3,425,000	-	14,480,163
South Boulder Creek Flood Mitigation Phase I	15,875,000	-	-	-	5,575,000	-	-	5,575,000	300,000	10,000,000
Subtotal	$ 33,780,163	$ 104,000	$ 283,160	$ 862,486	$ 6,441,986	$ 871,665	$ 1,126,532	$ 9,689,829	$ 300,000	$ 24,480,163
Capital Maintenance										
Storm Sewer Rehabilitation	$ -	$ 260,000	$ 270,400	$ 281,216	$ 292,465	$ 304,163	$ 316,330	$ 1,724,574	$ -	$ -
Transportation Coordination	-	260,000	270,400	281,216	292,465	304,163	316,330	1,724,574	-	-
Subtotal	$ -	$ 520,000	$ 540,800	$ 562,432	$ 584,930	$ 608,326	$ 632,660	$ 3,449,148	$ -	$ -
Land and Asset Acquisition										
Preflood Property Acquisition	$ -	$ 500,000	$ 500,000	$ 500,000	$ 550,000	$ 600,000	$ 633,000	$ 3,283,000	$ -	
Subtotal	$ -	$ 500,000	$ 500,000	$ 500,000	$ 550,000	$ 600,000	$ 633,000	$ 3,283,000	$ -	$ -
Transfer										
Tributary Greenways Program - Stormwater & Flood	$ -	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 585,000	$ -	$ -
Subtotal	$ -	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 585,000	$ -	$ -
Total	**$ 33,780,163**	**$ 1,221,500**	**$ 1,421,460**	**$ 2,022,418**	**$ 7,674,416**	**$ 2,177,491**	**$ 2,489,692**	**$ 17,006,977**	**$ 300,000**	**$ 24,480,163**

Table 2-1: 2014-2019 Funding Summary By Department (Cont.)

PUBLIC WORKS - TRANSPORTATION

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
28th St (Baseline to Iris)	$ 4,673,993	$ 1,330,000	$ 1,330,000	$ 1,330,000	$ 1,330,000	$ -	$ -	$ 5,320,000	$ 2,391,000	$ -
Boulder Junction - Junction Pl Enhancements (Goose Creek to Bluff)	877,000	400,000	477,000	-	-	-	-	877,000	-	-
City Yards Frontage Site Preparation for Potential Pollard Relocation	1,225,000	1,225,000	-	-	-	-	-	1,225,000	-	-
Miscellaneous Development Coordination	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	50,000	-
Signal Maintenance and Upgrade	-	200,000	-	-	-	200,000	-	400,000	-	-
Valmont & 29th/Hazard Elimination	3,015,000	3,015,000	-	-	-	-	-	3,015,000	-	-
Subtotal	$ 9,790,993	$ 6,220,000	$ 1,857,000	$ 1,380,000	$ 1,380,000	$ 250,000	$ 50,000	$ 11,137,000	$ 2,441,000	$ -
Capital Maintenance										
Pedestrian Facilities - Repair, Replacement, ADA	$ -	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 3,774,000	$ -	$ -
Subtotal	$ -	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 3,774,000	$ -	$ -
Capital Planning Studies										
Transportation Master Plan Study	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
Subtotal	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
New Capital Project										
28th St. Bike/Pedestrian Improvements: Iris to Yarmouth	$ 2,224,000	$ 1,324,000	$ -	$ -	$ -	$ -	$ -	$ 1,324,000	$ 900,000	$ -
Baseline Underpass: Broadw ay to 28th	5,400,000	2,462,000	-	-	-	-	-	2,462,000	2,938,000	-
Bikew ay Facilities - Enhancements	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
Boulder Junction - Development Coordination	450,000	75,000	75,000	75,000	75,000	75,000	75,000	450,000	-	-
Pedestrian Facilities Enhancements-Missing Links, Crossing Treatments	-	75,000	75,000	75,000	75,000	75,000	75,000	450,000	-	-
TIP Local Match/TMP Implementation	-	800,000	1,300,000	1,300,000	1,300,000	1,800,000	1,800,000	8,300,000	-	-
Boulder Junction - Traffic Signal at Bluff Street and 30th Street	228,000	-	-	-	228,000	-	-	228,000	-	-
Boulder Junction - Traffic Signal at Junction Place and Valmont	304,000	-	-	-	304,000	-	-	304,000	-	-
TIP Local Match/TMP Implementation II	-	-	-	-	-	300,000	400,000	700,000	-	-
Subtotal	$ 8,606,000	$ 4,861,000	$ 1,575,000	$ 1,575,000	$ 2,107,000	$ 2,375,000	$ 2,475,000	$ 14,968,000	$ 3,838,000	$ -

Table 2-1: 2014-2019 Funding Summary By Department (Cont.)

PUBLIC WORKS - TRANSPORTATION (Cont.)

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Transfer										
Boulder Junction Improvements - Transfer	$ -	$ 200,000	$ -	$ -	$ -	$ -	$ -	$ 200,000	$ -	$ -
Tributary Greenw ays Program - Transportation - Transfer	-	97,500	97,500	97,500	97,500	97,500	97,500	585,000	-	-
Subtotal	$ -	$ 297,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 785,000	$ -	$ -
Total	**$ 18,496,993**	**$ 12,107,500**	**$ 4,158,500**	**$ 3,681,500**	**$ 4,213,500**	**$ 3,351,500**	**$ 3,251,500**	**$ 30,764,000**	**$ 6,279,000**	**$ -**

Table 2-1: 2014-2019 Funding Summary By Department (Cont.)

PUBLIC WORKS - WASTEWATER UTILITY

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Biosolids Processing and Dewatering	$ 150,000	$ 150,000	$ -	$ -	$ -	$ -	$ -	$ 150,000	$ -	$ -
Wastewater Treatment Facility Electrical	1,420,000	100,000	-	120,000	1,200,000	-	-	1,420,000	-	-
Wastewater Treatment Facility Instrumentation/Control	9,131,068	520,000	540,800	-	674,918	701,915	729,992	3,167,625	175,600	5,787,843
Wastewater Treatment Facility Permit Improvements - Funded	4,712,234	200,000	1,650,000	150,000	-	750,000	1,500,000	4,250,000	462,234	-
Wastewater Treatment Facility Pumps	448,413	150,000	-	150,000	-	-	-	300,000	148,413	-
Wastewater Treatment Facility Activated Sludge	710,961	-	389,376	-	58,493	-	-	447,869	-	263,092
Marshall Landfill	100,000	-	-	100,000	-	-	-	100,000	-	-
Wastewater Treatment Facility Laboratory	100,000	-	-	50,000	-	-	-	50,000	50,000	-
Goose Creek Sanitary Sewer Interceptor Rehabilitation	3,289,851	-	-	-	25,000	622,683	1,295,181	1,942,864	-	1,346,987
Subtotal	$ 20,062,527	$ 1,120,000	$ 2,580,176	$ 570,000	$ 1,958,411	$ 2,074,598	$ 3,525,173	$ 11,828,358	$ 836,247	$ 7,397,922
Capital Maintenance										
Collection System Monitoring	$ -	$ 50,000	$ -	$ -	$ 58,493	$ -	$ -	$ 108,493	$ 50,000	$ -
Sanitary Sewer Manhole Rehabilitation	-	104,000	108,160	112,486	116,986	121,665	126,532	689,829	-	-
Sanitary Sewer Rehabilitation	-	520,000	540,800	562,432	584,929	608,326	632,660	3,449,147	-	-
Subtotal	$ -	$ 674,000	$ 648,960	$ 674,918	$ 760,408	$ 729,991	$ 759,192	$ 4,247,469	$ 50,000	$ -
Total	**$ 20,062,527**	**$ 1,794,000**	**$ 3,229,136**	**$ 1,244,918**	**$ 2,718,819**	**$ 2,804,589**	**$ 4,284,365**	**$ 16,075,827**	**$ 886,247**	**$ 7,397,922**

Table 2-1: 2014-2019 Funding Summary By Department (Cont.)

PUBLIC WORKS - WATER UTILITY

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Betasso Water Treatment Facility	$ 17,720,903	$ 600,000	$ 1,049,628	$ 15,621,275	$ -	$ 350,000	$ -	$ 17,620,903	$ 100,000	$ -
Boulder Canyon Hydro	4,859,475	125,000	-	-	-	-	-	125,000	4,734,475	-
Boulder Reservoir Water Treatment Facility - Funded	246,000	82,000	-	164,000	-	-	-	246,000	-	-
Barker Dam and Reservoir	498,560	-	378,560	-	-	-	-	378,560	120,000	-
Lakewood Hydroelectric / Pressure Reducing Facility	400,000	-	100,000	-	-	-	300,000	400,000	-	-
Barker Dam Outlet	8,572,652	-	-	75,000	772,514	7,725,138	-	8,572,652	-	-
Utility Billing Computer System Replacement	1,046,700	-	-	-	1,000,000	-	-	1,000,000	46,700	-
Green Lake 2 Dam	4,835,130	-	-	-	-	432,739	4,327,391	4,760,130	75,000	-
Lakewood Dam	124,707	-	-	-	-	124,707	-	124,707	-	-
Pearl Street Hydroelectric / Pressure Reducing Facility	267,664	-	-		-	24,333	243,331	267,664	-	-
Wittemyer Ponds - Funded	573,735	-	-	-	-	100,000	473,735	573,735	-	-
Subtotal	$ 39,145,526	$ 807,000	$ 1,528,188	$ 15,860,275	$ 1,772,514	$ 8,756,917	$ 5,344,457	$ 34,069,351	$ 5,076,175	$ -
Capital Maintenance										
Barker Gravity Pipeline Repair	$ -	$ 364,000	$ 378,560	$ 667,416	$ 612,436	$ 636,933	$ 662,410	$ 3,321,755	$ -	$ -
Lakewood Pipeline	576,330	260,000	-	-	-	-	316,330	576,330	-	-
Waterline Replacement	14,486,418	2,184,000	2,271,360	2,362,214	2,456,703	2,554,971	2,657,170	14,486,418	-	-
Watershed Improvements	240,000	80,000	80,000	80,000	-	-	-	240,000	-	-
Kohler Storage Tank	1,138,362	-	103,487	1,034,875	-	-	-	1,138,362	-	-
Betasso Hydroelectric / Pressure Reducing Facility	100,000	-	-	100,000	-	-	-	100,000	-	-
Barker-Kossler Penstock Repair	116,986	-	-	-	116,986	-	-	116,986	-	-
Betasso Storage Tank	292,465	-	-	-	292,465	-	-	292,465	-	-
Sunshine Hydroelectric / Pressure Reducing Station	271,875	-	-	-	271,875	-	-	271,875	-	-
Water Transmission Facilities (Zone 2)	250,000	-	-	-	250,000	-	-	250,000	-	-
Water Transmission Facilities (Zone 1)	250,000	-	-	-	-	250,000	-	250,000	-	-
Water Transmission Facilities (Zone 3)	250,000	-	-	-	-	-	250,000	250,000	-	-
Subtotal	$ 17,972,436	$ 2,888,000	$ 2,833,407	$ 4,244,505	$ 4,000,465	$ 3,441,904	$ 3,885,910	$ 21,294,191	$ -	$ -
Capital Planning Studies										
Albion Dam - Funded	$ 80,000	$ 80,000	$ -	$ -	$ -	$ -	$ -	$ 80,000	$ -	$ -
Subtotal	$ 80,000	$ 80,000	$ -	$ -	$ -	$ -	$ -	$ 80,000	$ -	$ -

Table 2-1: 2014-2019 Funding Summary By Department (Cont.)

PUBLIC WORKS - WATER UTILITY (Cont.)

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
New Capital Project										
NCWCD Conveyance - Carter Lake Pipeline	$ 31,174,987	$ 250,000	$ 500,000	$ 850,000	$ 2,737,469	$ 25,874,690	$ -	$ 30,212,159	$ 962,828	$ -
Barker Dam Hydroelectric	4,024,805	-	-	50,000	361,346	3,613,459	-	4,024,805	-	-
Source Water Monitoring	293,200	-	-	50,000	50,000	50,000	50,000	200,000	93,200	-
Carter Lake Hydroelectric	2,800,000	-	-	-	50,000	250,000	2,500,000	2,800,000	-	-
Subtotal	$ 38,292,992	$ 250,000	$ 500,000	$ 950,000	$ 3,198,815	$ 29,788,149	$ 2,550,000	$ 37,236,964	$ 1,056,028	$ -
Total	**$ 95,490,954**	**$ 4,025,000**	**$ 4,861,595**	**$ 21,054,780**	**$ 8,971,794**	**$ 41,986,970**	**$ 11,780,367**	**$ 92,680,506**	**$ 6,132,203**	**$ -**

City of Boulder

FUNDING BY PROJECT TYPE

2014-2019 Capital Improvement Program

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
- New Capital Project

There is an additional project type of *Transfers* that is used to indicate cross departmental funding collaborations. While these transfers are included in departmental totals, they are not included when calculating the total of all planned project funding in the CIP. The five project types are defined by the following criteria:

Capital Enhancement:

- Construction resulting 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 $50,000 in total project cost, but do not have to be. Information Technology projects are typically over $25,000 in total project cost
- Projects result in a durable, long lasting asset, with a useful life of at least 15 years. Information Technology projects may be as short as 5 years.

Capital Maintenance:

- Projects result 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 $50,000 in total project cost. Information Technology projects are typically over $25,000 in total project cost.

Criteria for 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 capital program
- Projects have discrete start and end date
- Projects are typically for studies that are over $50,000 in total cost.

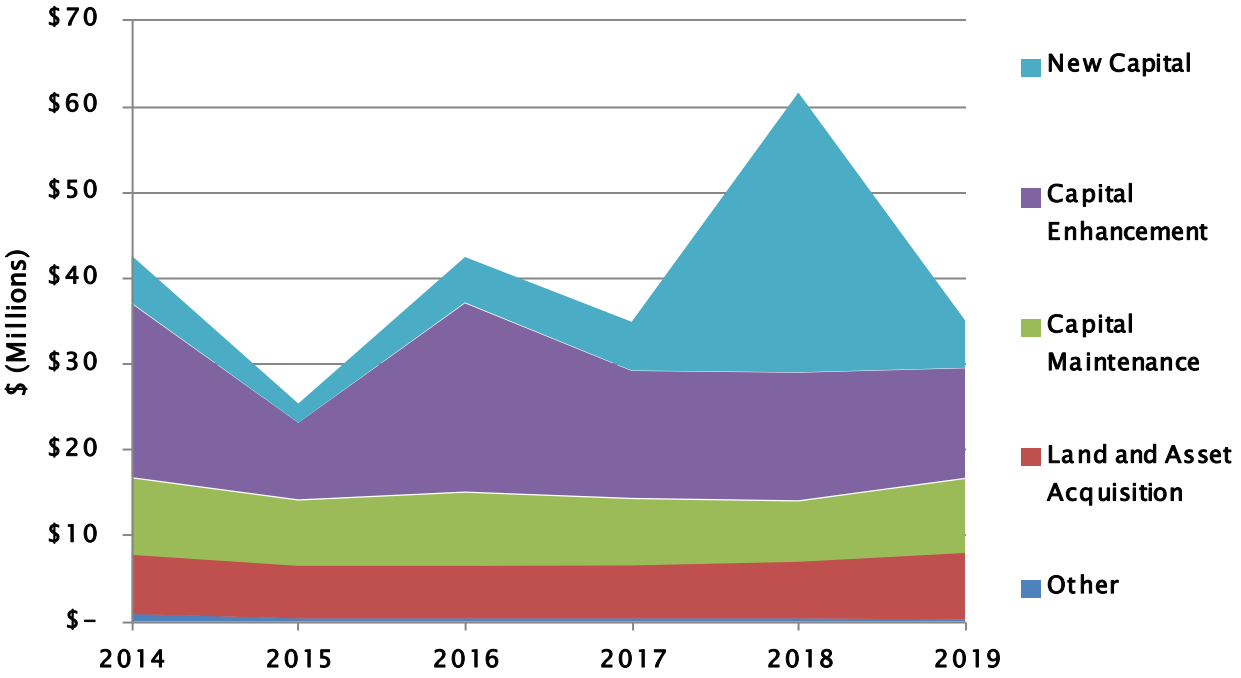
Land & Asset Acquisition:

- 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 city-wide
- Projects or programs typically include acquisitions totaling over $50,000

Criteria for New Capital Project:

- Projects resulting in the construction or acquisition of a new asset
- Construction resulting in additional square footage of an existing asset
- Projects have a discrete start and end date
- Projects are location specific
- Projects are typically over $50,000 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.

Figure 2-3: 2014-2019 Funding by Project Type



Other includes Capital Planning Studies and Transfers

Figure 2-4: 2014-2019 Funding by Project Type Excluding Utilities

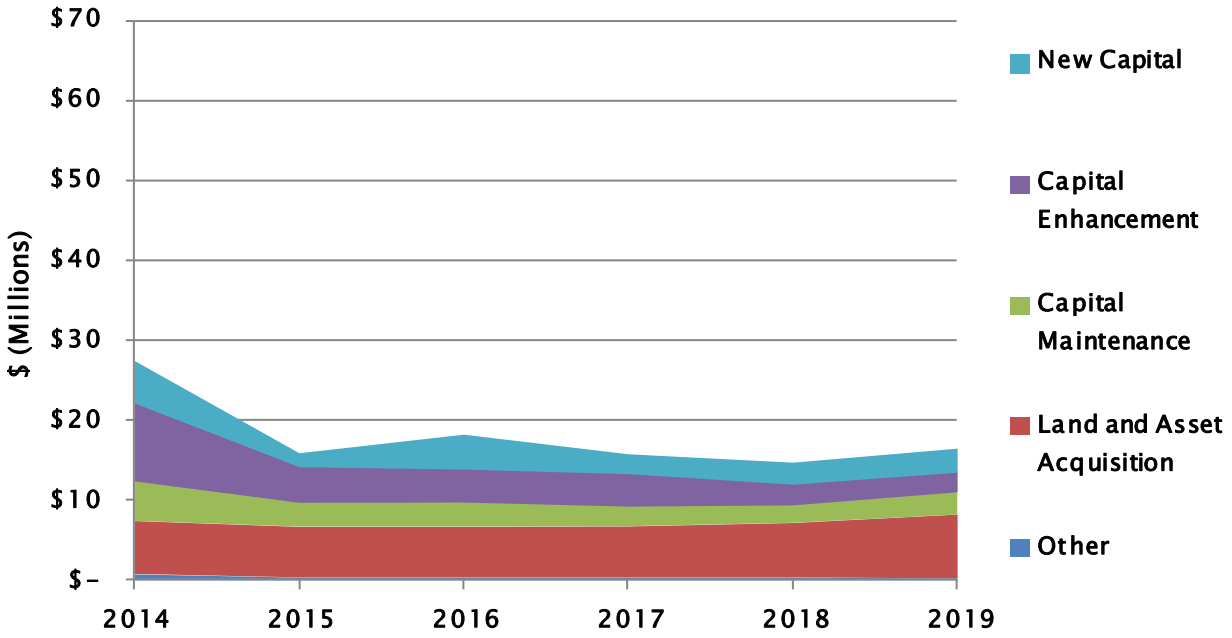


Table 2-2: 2014-2019 Funding Summary By Project Type

SUMMARY OF ALL TYPES

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement	$ 138,076,342	$ 20,289,000	$ 8,964,265	$ 22,028,802	$ 14,858,652	$ 14,928,921	$ 12,821,903	$ 93,891,543	$ 19,477,814	$ 33,446,321
Capital Maintenance	27,246,491	8,952,305	7,642,338	8,558,396	7,765,696	7,058,724	8,653,686	48,631,145	1,045,000	85,500
Capital Planning Studies	580,000	330,000	50,000	50,000	50,000	50,000	50,000	580,000	-	-
Land and Asset Acquisition	2,661,405	6,987,405	6,200,000	6,200,000	6,250,000	6,674,000	7,833,000	40,144,405	-	-
New Capital	51,725,219	5,492,539	2,225,000	5,275,000	5,655,815	32,513,149	5,525,000	56,686,503	5,238,716	-
Transfer	-	545,000	320,400	320,400	320,400	320,400	195,000	2,021,600	-	-
Total	**$ 220,289,457**	**$ 42,596,249**	**$ 25,402,003**	**$ 42,432,598**	**$ 34,900,563**	**$ 61,545,194**	**$ 35,078,589**	**$ 241,955,196**	**$ 25,761,530**	**$ 33,531,821**

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Table 2-2: 2014-2019 Funding Summary By Project Type (Cont.)

CAPITAL ENHANCEMENT

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
28th St (Baseline to Iris)	$ 4,673,993	$ 1,330,000	$ 1,330,000	$ 1,330,000	$ 1,330,000	$ -	$ -	$ 5,320,000	$ 2,391,000	$ -
Artificial Turf Field Installation	1,500,000	-	-	500,000	500,000	500,000	-	1,500,000	-	-
Barker Dam and Reservoir	498,560	-	378,560	-	-	-	-	378,560	120,000	-
Barker Dam Outlet	8,572,652	-	-	75,000	772,514	7,725,138	-	8,572,652	-	-
Betasso Water Treatment Facility	17,720,903	600,000	1,049,628	15,621,275	-	350,000	-	17,620,903	100,000	-
Biosolids Processing and Dewatering	150,000	150,000	-	-	-	-	-	150,000	-	-
Boulder Canyon Hydro	4,859,475	125,000	-	-	-	-	-	125,000	4,734,475	-
Boulder Junction - Junction Pl Enhancements (Goose Creek to Bluff)	877,000	400,000	477,000	-	-	-	-	877,000	-	-
Boulder Reservoir Water Treatment Facility - Funded	246,000	82,000	-	164,000	-	-	-	246,000	-	-
City Yards Frontage Site Preparation for Potential Pollard Relocation	1,225,000	1,225,000	-	-	-	-	-	1,225,000	-	-
Civic Area Improvements - Lumber Park	300,000	300,000	-	-	-	-	-	300,000	-	-
East Boulder Community Center Renovation	1,100,000	-	-	-	-	100,000	100,000	200,000	-	900,000
Flatirons Golf Course Irrigation System Replacement	1,795,263	1,200,000	-	-	-	-	-	1,200,000	595,263	-
Fourmile Canyon Creek - Upland to Violet	3,500,000	-	-	770,441	770,441	770,441	520,441	2,831,764	-	668,236
Fourmile Canyon Creek at Crestview & 19th	2,222,159	600,000	-	-	-	-	-	600,000	1,622,159	-
Green Lake 2 Dam	4,835,130	-	-	-	-	432,739	4,327,391	4,760,130	75,000	-
JSI Upgrade	135,000	-	-	-	-	-	-	-	135,000	-
Lakewood Dam	124,707	-	-	-	-	124,707	-	124,707	-	-
Lakewood Hydroelectric / Pressure Reducing Facility	400,000	-	100,000	-	-	-	300,000	400,000	-	-
Lighting Ordinance Implementation	500,000	-	-	250,000	250,000	-	-	500,000	-	-
Main Library - Flood Protection	400,000	400,000	-	-	-	-	-	400,000	-	-
Marshall Landfill	100,000	-	-	100,000	-	-	-	100,000	-	-
Miscellaneous Development Coordination	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	50,000	-
NBRC: Interior Circulation Study/Improvements	280,000	-	280,000	-	-	-	-	280,000	-	-
North Boulder Recreation Center - Replace Solar Thermal System	350,000	-	350,000	-	-	-	-	350,000	-	-
OSMP - Historical Structures & Trails - Stabilization & Restoration	-	343,000	355,300	355,300	355,300	355,300	355,300	2,119,500	343,000	-
OSMP East Trail Study Area (ETSA)	300,000	-	-	-	50,000	50,000	200,000	300,000	-	-
OSMP North Trail Study Area (NTSA)	600,000	50,000	50,000	100,000	200,000	100,000	50,000	550,000	50,000	-
OSMP West Trail Study Area (WTSA)	3,319,486	500,000	550,000	550,000	450,000	600,000	50,000	2,700,000	619,486	-
Outdoor Lighting Compliance Improvements	200,000	-	150,000	50,000	-	-	-	200,000	-	-
Pearl Street Hydroelectric / Pressure Reducing Facility	267,664	-	-		-	24,333	243,331	267,664	-	-

Table 2-2: 2014-2019 Funding Summary By Project Type (Cont.)

CAPITAL ENHANCEMENT (Cont.)

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Playground and Park Irrigation System Renovation	1,360,300	-	-	530,300	530,000	300,000	-	1,360,300	-	-
Signal Maintenance and Upgrade	-	200,000	-	-	-	200,000	-	400,000	-	-
South Boulder Creek Flood Mitigation Phase I	15,875,000	-	-	-	5,575,000	-	-	5,575,000	300,000	10,000,000
Stazio Refurbish Restrooms and Concessions	160,000	-	160,000	-	-	-	-	160,000	-	-
Stormw ater Quality Improvements	-	104,000	108,160	112,486	116,986	121,665	126,532	689,829	-	-
Tantra Shop Renovation	300,000	-	-	-	-	-	300,000	300,000	-	-
Thunderbird Lake Enhancements	250,000	-	250,000	-	-	-	-	250,000	-	-
Goose Creek Sanitary Sew er Interceptor Rehabilitation	3,289,851	-	-	-	25,000	622,683	1,295,181	1,942,864	-	1,346,987
Upper Goose Creek Drainage	17,905,163	-	175,000	750,000	750,000	750,000	1,000,000	3,425,000	-	14,480,163
Utility Billing Computer System Replacement	1,046,700	-	-	-	1,000,000	-	-	1,000,000	46,700	-
Valmont & 29th/Hazard Elimination	3,015,000	3,015,000	-	-	-	-	-	3,015,000	-	-
Visitor Infrastructure - System Wide	-	350,000	300,000	250,000	200,000	200,000	500,000	1,800,000	-	-
Wastew ater Treatment Facility Activated Sludge	710,961	-	389,376	-	58,493	-	-	447,869	-	263,092
Wastew ater Treatment Facility Electrical	1,420,000	100,000	-	120,000	1,200,000	-	-	1,420,000	-	-
Wastew ater Treatment Facility Instrumentation/Control	9,131,068	520,000	540,800	-	674,918	701,915	729,992	3,167,625	175,600	5,787,843
Wastew ater Treatment Facility Laboratory	100,000	-	-	50,000	-	-	-	50,000	50,000	-
Wastew ater Treatment Facility Permit Improvements - Funded	4,712,234	200,000	1,650,000	150,000	-	750,000	1,500,000	4,250,000	462,234	-
Wastew ater Treatment Facility Pumps	448,413	150,000	-	150,000	-	-	-	300,000	148,413	-
West Senior Center Major Maintenance & Rehab	700,000	-	-	-	-	-	700,000	700,000	-	-
Wittemyer Ponds - Funded	573,735	-	-	-	-	100,000	473,735	573,735	-	-
Wonderland Creek - Foothills to 30th Street	10,109,484	4,000,000	-	-	-	-	-	4,000,000	6,109,484	-
Wonderland Creek at 28th Street	5,915,441	4,295,000	270,441	-	-	-	-	4,565,441	1,350,000	-
Total	**$ 138,076,342**	**$ 20,289,000**	**$ 8,964,265**	**$ 22,028,802**	**$ 14,858,652**	**$ 14,928,921**	**$ 12,821,903**	**$ 93,891,543**	**$ 19,477,814**	**$ 33,446,321**

Table 2-2: 2014-2019 Funding Summary By Project Type (Cont.)

CAPITAL MAINTENANCE

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
ADA Compliance Improvements	$ 400,000	$ 100,000	$ 100,000	$ 100,000	$ -	$ -	$ -	$ 300,000	$ 100,000	$ -
Barker Gravity Pipeline Repair	-	364,000	378,560	667,416	612,436	636,933	662,410	3,321,755	-	-
Barker-Kossler Penstock Repair	116,986	-	-	-	116,986	-	-	116,986	-	-
Betasso Hydroelectric / Pressure Reducing Facility	100,000	-	-	100,000	-	-	-	100,000	-	-
Betasso Storage Tank	292,465	-	-	-	292,465	-	-	292,465	-	-
Collection System Monitoring	-	50,000	-	-	58,493	-	-	108,493	50,000	-
Data Backup and Disaster Recovery	-	-	-	-	-	44,000	85,000	129,000	-	-
Dow ntow n 14th Street Parking Lot Improvements	285,500	25,000	25,000	25,000	25,000	25,000	25,000	150,000	50,000	85,500
Dow ntow n Parking Garage Major Maintenance	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	-	-
Dow ntow n/Pearl St Mall Amenities Replacement	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
East Boulder Community Center - Replace Pool Air Handlers	500,000	-	-	500,000	-	-	-	500,000	-	-
End User Device Replacement	-	458,000	458,000	458,000	458,000	458,000	458,000	2,748,000	-	-
FlatIrons Event Center Major Repairs	600,000	-	-	-	-	-	600,000	600,000	-	-
Fleet Services, Rpl Emergency Generator +	400,000	50,000	50,000	50,000	50,000	50,000	50,000	300,000	100,000	-
Kohler Storage Tank	1,138,362	-	103,487	1,034,875	-	-	-	1,138,362	-	-
Lakew ood Pipeline	576,330	260,000	-	-	-	-	316,330	576,330	-	-
Main Library Reconstruct North Plaza	147,000	147,000	-	-	-	-	-	147,000	-	-
Mapleton Ballfields, Renovate Concessions and Restrooms +	100,000	-	100,000	-	-	-	-	100,000	-	-
Martin Park Shelter Major Maintenance	169,000	-	-	-	169,000	-	-	169,000	-	-
Miscellaneous Facility DET Projects	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	50,000	-
Miscellaneous Facility Maintenance Projects	2,495,000	340,000	370,000	415,000	380,000	400,000	400,000	2,305,000	190,000	-
Miscellaneous Water Quality, Restoration and Trail Improvements	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	-	-
Netw ork Hardw are Replacement	-	150,000	160,671	148,041	113,893	116,503	612,224	1,301,332	-	-
North Boulder Park Shelter Repair	120,000	-	-	-	120,000	-	-	120,000	-	-
OSMP ReRoute Flagstaff Trail bt Crow n Rock and Baseline	120,000	120,000	-	-	-	-	-	120,000	-	-
OSMP ReRoute Green Mountain West Ridge	60,000	60,000	-	-	-	-	-	60,000	-	-
OSMP ReRoute Saddle Rock Trail	65,000	65,000	-	-	-	-	-	65,000	-	-
OSMP ReRoute Ute and Range View Trails	65,000	65,000	-	-	-	-	-	65,000	-	-
Pearl Street Mall Irrigation System Replacement	1,500,000	500,000	550,000	-	-	-	-	1,050,000	450,000	-
Pedestrian Facilities - Repair, Replacement, ADA	-	629,000	629,000	629,000	629,000	629,000	629,000	3,774,000	-	-
Pool Replastering	230,000	100,000	75,000	-	-	-	-	175,000	55,000	-

Table 2-2: 2014-2019 Funding Summary By Project Type (Cont.)

CAPITAL MAINTENANCE (Cont.)

	Estimated Total Cost	2014 Recommended	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Rehabilitate Portion of Aircraft Parking Ramp	1,555,555	1,555,555	-	-	-	-	-	1,555,555	-	-
Replaster Pools +	80,000	-	-	80,000	-	-	-	80,000	-	-
Sanitary Sew er Manhole Rehabilitation	-	104,000	108,160	112,486	116,986	121,665	126,532	689,829	-	-
Sanitary Sew er Rehabilitation	-	520,000	540,800	562,432	584,929	608,326	632,660	3,449,147	-	-
Security Administration	-	5,250	11,500	54,000	-	-	6,700	77,450	-	-
Server Admin Hardw are Repalcement	-	25,500	615,000	10,500	-	81,000	35,000	767,000	-	-
Stazio Tensile Canopy Covering Replacement	132,000	-	-	132,000	-	-	-	132,000	-	-
Storm Sew er Rehabilitation	-	260,000	270,400	281,216	292,465	304,163	316,330	1,724,574	-	-
Sunshine Hydroelectric / Pressure Reducing Station	271,875	-	-	-	271,875	-	-	271,875	-	-
Transportation Coordination	-	260,000	270,400	281,216	292,465	304,163	316,330	1,724,574	-	-
Water Transmission Facilities (Zone 1)	250,000	-	-	-	-	250,000	-	250,000	-	-
Water Transmission Facilities (Zone 2)	250,000	-	-	-	250,000	-	-	250,000	-	-
Water Transmission Facilities (Zone 3)	250,000	-	-	-	-	-	250,000	250,000	-	-
Waterline Replacement	14,486,418	2,184,000	2,271,360	2,362,214	2,456,703	2,554,971	2,657,170	14,486,418	-	-
Watershed Improvements	240,000	80,000	80,000	80,000	-	-	-	240,000	-	-
Total	**$ 27,246,491**	**$ 8,952,305**	**$ 7,642,338**	**$ 8,558,396**	**$ 7,765,696**	**$ 7,058,724**	**$ 8,653,686**	**$ 48,631,145**	**$ 1,045,000**	**$ 85,500**

CAPITAL PLANNING STUDIES

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Albion Dam - Funded	$ 80,000	$ 80,000	$ -	$ -	$ -	$ -	$ -	$ 80,000	$ -	$ -
Aquatic Facility Plan	100,000	100,000	-	-	-	-	-	100,000	-	-
Facility Assessments	300,000	50,000	50,000	50,000	50,000	50,000	50,000	300,000	-	-
Transportation Master Plan Study	100,000	100,000	-	-	-	-	-	100,000	-	-
Total	**$ 580,000**	**$ 330,000**	**$ 50,000**	**$ 50,000**	**$ 50,000**	**$ 50,000**	**$ 50,000**	**$ 580,000**	**$ -**	**$ -**

Table 2-2: 2014-2019 Funding Summary By Project Type (Cont.)

LAND AND ASSET ACQUISITION

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Boulder Junction - Historic Train Depot Land Cost Reconciliation	$ 787,405	$ 787,405	$ -	$ -	$ -		$ -	$ 787,405	$ -	$ -
Boulder Junction Rail Plaza	1,874,000	-	-	-	-	374,000	1,500,000	1,874,000	-	-
Mineral Rights Acquisition	-	100,000	100,000	100,000	100,000	100,000	100,000	600,000	-	-
OSMP Real Estate Acquisition Program	-	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	-	-
Preflood Property Acquisition	-	500,000	500,000	500,000	550,000	600,000	633,000	3,283,000	-	
Water Rights Acquisition	-	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	-	-
Total	**$ 2,661,405**	**$ 6,987,405**	**$ 6,200,000**	**$ 6,200,000**	**$ 6,250,000**	**$ 6,674,000**	**$ 7,833,000**	**$ 40,144,405**	**$ -**	**$ -**

NEW CAPITAL

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
28th St. Bike/Pedestrian Improvements: Iris to Yarmouth	$ 2,224,000	$ 1,324,000	$ -	$ -	$ -	$ -	$ -	$ 1,324,000	$ 900,000	$ -
Barker Dam Hydroelectric	4,024,805	-	-	50,000	361,346	3,613,459	-	4,024,805	-	-
Baseline Underpass: Broadw ay to 28th	5,400,000	2,462,000	-	-	-	-	-	2,462,000	2,938,000	-
Bikew ay Facilities - Enhancements	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
Boulder Junction - Development Coordination	450,000	75,000	75,000	75,000	75,000	75,000	75,000	450,000	-	-
Boulder Junction - Traffic Signal at Bluff Street and 30th Street	228,000	-	-	-	228,000	-	-	228,000	-	-
Boulder Junction - Traffic Signal at Junction Place and Valmont	304,000	-	-	-	304,000	-	-	304,000	-	-
Boulder Junction Pocket Park	1,926,227	281,539	-	750,000	350,000	350,000	-	1,731,539	194,688	-
Carter Lake Hydroelectric	2,800,000	-	-	-	50,000	250,000	2,500,000	2,800,000	-	-
NCWCD Conveyance - Carter Lake Pipeline	31,174,987	250,000	500,000	850,000	2,737,469	25,874,690	-	30,212,159	962,828	-
Pedestrian Facilities Enhancements-Missing Links, Crossing Treatments	-	75,000	75,000	75,000	75,000	75,000	75,000	450,000	-	-
Source Water Monitoring	293,200	-	-	50,000	50,000	50,000	50,000	200,000	93,200	-
South Boulder Creek Instream Flow	2,400,000	100,000	150,000	2,000,000	-	-	-	2,250,000	150,000	-
TIP Local Match/TMP Implementation	-	800,000	1,300,000	1,300,000	1,300,000	1,800,000	1,800,000	8,300,000	-	-
TIP Local Match/TMP Implementation II	-	-	-	-	-	300,000	400,000	700,000	-	-
Violet Park	500,000	-	-	-	-	-	500,000	500,000	-	-
Total	**$ 51,725,219**	**$ 5,492,539**	**$ 2,225,000**	**$ 5,275,000**	**$ 5,655,815**	**$ 32,513,149**	**$ 5,525,000**	**$ 56,686,503**	**$ 5,238,716**	**$ -**

Table 2-2: 2014-2019 Funding Summary By Project Type (Cont.)

TRANSFER

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Boulder Junction Improvements - Transfer	$ -	$ 200,000	$ -	$ -	$ -	$ -	$ -	$ 200,000	$ -	$ -
Tributary Greenways Program - Lottery	-	150,000	125,400	125,400	125,400	125,400	-	651,600	-	-
Tributary Greenways Program - Stormwater & Flood	-	97,500	97,500	97,500	97,500	97,500	97,500	585,000	-	-
Tributary Greenways Program - Transportation - Transfer	-	97,500	97,500	97,500	97,500	97,500	97,500	585,000	-	-
Total	**$ -**	**$ 545,000**	**$ 320,400**	**$ 320,400**	**$ 320,400**	**$ 320,400**	**$ 195,000**	**$ 2,021,600**	**$ -**	**$ -**

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FUNDING BY FUND

2014-2019 Capital Improvement Program

One or more of the following 17 funds and funding sources are proposed for the CIP projects:

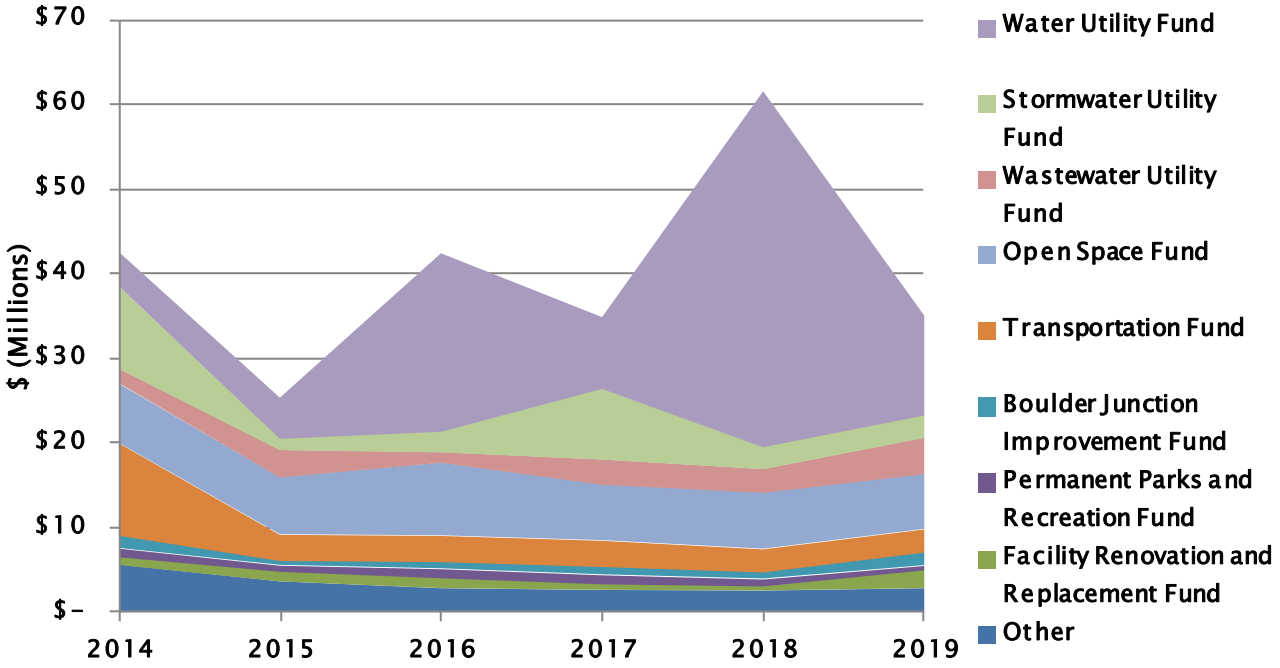
- .25 Cent Sales Tax Fund
- Airport Fund
- Boulder Junction Improvement Fund
- Capital Development Fund
- Computer Replacement Fund
- Downtown Commercial District Fund
- Facility Renovation and Replacement Fund
- General Fund
- Greenways Program
- Lottery Fund
- Open Space Fund
- Permanent Parks and Recreation Fund
- Stormwater Utility Fund
- Transportation Fund
- Transportation Development Fund
- Wastewater Utility Fund
- Water Utility Fund

Detailed descriptions of all of the city's funds are available in the introduction section of the Recommended 2013 Annual Budget - Volume 1. 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 requires 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

Similar to the department distributions described earlier in this section, the Transportation and Utility Funds are the largest contributors to the city's 2014-2019 CIP.

Figure 2-5 shows the distribution of six year funding by fund.

Figure 2-5: 2014-2019 Funding by Fund



Other includes the General Fund, .25 Cent Sales Tax Fund, Capital Development Fund, Airport Fund, Greenways Program, Downtown Commercial Fund, Transportation Development Fund, Lottery Fund, and Computer Replacement Fund

Table 2-3: 2014-2019 Funding Summary by Fund

2014 - 2019 CAPITAL IMROVEMENTS PROGRAM - BY FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
.25 Cent Sales Tax Fund	$ 750,000	$ 800,000	$ 350,000	$ 100,000	$ -	$ -	$ -	$ 1,850,000	$ 100,000	$ -
Airport Fund	1,555,555	1,555,555	-	-	-	-	-	1,555,555	-	-
Boulder Junction Improvement Fund	6,446,632	1,543,944	552,000	825,000	957,000	799,000	1,575,000	6,251,944	194,688	-
Capital Development Fund	300,000	350,000	50,000	50,000	50,000	50,000	50,000	600,000	50,000	-
Computer Replacement Fund	-	638,750	1,245,171	670,541	571,893	699,503	1,196,924	5,022,782	-	-
Dow ntow n Commercial District Fund	535,500	400,000	400,000	400,000	400,000	400,000	400,000	2,400,000	50,000	85,500
Facility Renovation and Replacement Fund	8,253,000	987,000	1,230,000	1,277,000	769,000	600,000	2,200,000	7,063,000	290,000	900,000
General Fund	135,000	-	-	-	-	-	-	-	135,000	-
Greenw ays	-	345,000	320,441	320,441	320,441	320,441	320,441	1,947,205	1,139,349	-
Lottery Fund	460,300	693,000	680,700	711,000	710,700	480,700	355,300	3,631,400	543,000	-
Open Space Fund	6,929,486	7,010,000	6,750,000	8,600,000	6,600,000	6,650,000	6,500,000	42,110,000	819,486	-
Permanent Parks and Recreation Fund	7,205,263	1,000,000	705,000	1,050,000	1,050,000	800,000	500,000	5,705,000	900,263	-
Stormw ater Utility Fund	55,777,247	9,821,500	1,421,460	2,522,418	8,424,416	2,677,491	2,739,692	27,606,977	8,242,294	25,148,399
Transportation Fund	11,964,000	10,912,500	3,086,500	3,086,500	3,086,500	2,726,500	2,726,500	25,625,000	3,838,000	-
Transportation Development Fund	4,673,993	720,000	520,000	520,000	520,000	550,000	450,000	3,280,000	2,441,000	-
Wastew ater Utility Fund	20,330,123	1,794,000	3,229,136	1,244,918	2,968,819	2,804,589	4,284,365	16,325,827	903,843	7,397,922
Water Utility Fund	94,973,358	4,025,000	4,861,595	21,054,780	8,471,794	41,986,970	11,780,367	92,180,506	6,114,607	-
Total	**$ 220,289,457**	**$ 42,596,249**	**$ 25,402,003**	**$ 42,432,598**	**$ 34,900,563**	**$ 61,545,194**	**$ 35,078,589**	**$ 243,155,196**	**$ 25,761,530**	**$ 33,531,821**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

.25 CENT SALES TAX FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Flatirons Golf Course Irrigation System Replacement	$ -	$ 600,000	$ -	$ -	$ -	$ -	$ -	$ 1,200,000	$ -	$ -
Thunderbird Lake Enhancements	$ 250,000	$ -	$ 250,000	$ -	$ -	$ -	$ -	$ 250,000	$ -	$ -
Subtotal	$ 250,000	$ 600,000	$ 250,000	$ -	$ -	$ -	$ -	$ 1,450,000	$ -	$ -
Capital Maintenance										
ADA Compliance Improvements	$ 400,000	$ 100,000	$ 100,000	$ 100,000	$ -	$ -	$ -	$ 300,000	$ 100,000	$ -
Subtotal	$ 400,000	$ 100,000	$ 100,000	$ 100,000	$ -	$ -	$ -	$ 300,000	$ 100,000	$ -
Capital Planning Studies										
Aquatic Facility Plan	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
Subtotal	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
Total	**$ 750,000**	**$ 800,000**	**$ 350,000**	**$ 100,000**	**$ -**	**$ -**	**$ -**	**$ 1,850,000**	**$ 100,000**	**$ -**

AIRPORT FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Maintenance										
Rehabilitate Portion of Aircraft Parking Ramp	$ 1,555,555	$ 1,555,555	$ -	$ -	$ -	$ -	$ -	$ 1,555,555	$ -	$ -
Subtotal	$ 1,555,555	$ 1,555,555	$ -	$ -	$ -	$ -	$ -	$ 1,555,555	$ -	$ -
Total	**$ 1,555,555**	**$ 1,555,555**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,555,555**	**$ -**	**$ -**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

BOULDER JUNCTION IMPROVEMENT FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Boulder Junction - Junction Pl Enhancements (Goose Creek to Bluff)	$ 877,000	$ 400,000	$ 477,000	$ -	$ -	$ -	$ -	$ 877,000	$ -	$ -
Subtotal	$ 877,000	$ 400,000	$ 477,000	$ -	$ -	$ -	$ -	$ 877,000	$ -	$ -
Land and Asset Acquisition										
Boulder Junction - Historic Train Depot Land Cost Reconciliation	$ 787,405	$ 787,405	$ -	$ -	$ -		$ -	$ 787,405	$ -	$ -
Boulder Junction Rail Plaza	1,874,000	-	-	-	-	374,000	1,500,000	1,874,000	-	-
Subtotal	$ 2,661,405	$ 787,405	$ -	$ -	$ -	$ 374,000	$ 1,500,000	$ 2,661,405	$ -	$ -
New Capital Project										
Boulder Junction - Development Coordination	$ 450,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 450,000	$ -	$ -
Boulder Junction Pocket Park	1,926,227	281,539	-	750,000	350,000	350,000	-	1,731,539	194,688	-
Boulder Junction - Traffic Signal at Bluff Street and 30th Street	228,000	-	-	-	228,000	-	-	228,000	-	-
Boulder Junction - Traffic Signal at Junction Place and Valmont	304,000	-	-	-	304,000	-	-	304,000	-	-
Subtotal	$ 2,908,227	$ 356,539	$ 75,000	$ 825,000	$ 957,000	$ 425,000	$ 75,000	$ 2,713,539	$ 194,688	$ -
Total	**$ 6,446,632**	**$ 1,543,944**	**$ 552,000**	**$ 825,000**	**$ 957,000**	**$ 799,000**	**$ 1,575,000**	**$ 6,251,944**	**$ 194,688**	**$ -**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

CAPITAL DEVELOPMENT FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Civic Area Improvements - Lumber Park	$ 300,000	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ -	$ -
Subtotal	$ 300,000	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ -	$ -
Capital Maintenance										
Miscellaneous Facility DET Projects	$ -	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ 50,000	$ -
Subtotal	$ -	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ 50,000	$ -
Total	**$ 300,000**	**$ 350,000**	**$ 50,000**	**$ 50,000**	**$ 50,000**	**$ 50,000**	**$ 50,000**	**$ 600,000**	**$ 50,000**	**$ -**

COMPUTER REPLACEMENT FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Maintenance										
Data Backup and Disaster Recovery	$ -	$ -	$ -	$ -	$ -	$ 44,000	$ 85,000	$ 129,000	$ -	$ -
End User Device Replacement	-	458,000	458,000	458,000	458,000	458,000	458,000	2,748,000	-	-
Network Hardware Replacement	-	150,000	160,671	148,041	113,893	116,503	612,224	1,301,332	-	-
Security Administration	-	5,250	11,500	54,000	-	-	6,700	77,450	-	-
Server Admin Hardware Repalcement	-	25,500	615,000	10,500	-	81,000	35,000	767,000	-	-
Subtotal	$ -	$ 638,750	$ 1,245,171	$ 670,541	$ 571,893	$ 699,503	$ 1,196,924	$ 5,022,782	$ -	$ -
Total	**$ -**	**$ 638,750**	**$ 1,245,171**	**$ 670,541**	**$ 571,893**	**$ 699,503**	**$ 1,196,924**	**$ 5,022,782**	**$ -**	**$ -**

DOWNTOWN COMMERCIAL DISTRICT FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Maintenance										
Downtown 14th Street Parking Lot Improvements	$ 285,500	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 150,000	$ 50,000	$ 85,500
Downtown Parking Garage Major Maintenance	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	-	-
Downtown/Pearl St Mall Amenities Replacement	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
Subtotal	$ 535,500	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 2,400,000	$ 50,000	$ 85,500
Total	**$ 535,500**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 2,400,000**	**$ 50,000**	**$ 85,500**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

FACILITY RENOVATION AND REPLACEMENT FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Main Library - Flood Protection	$ 400,000	$ 400,000	$ -	$ -	$ -	$ -	$ -	$ 400,000	$ -	$ -
North Boulder Recreation Center - Replace Solar Thermal System	350,000	-	350,000	-	-	-	-	350,000	-	-
Outdoor Lighting Compliance Improvements	200,000	-	150,000	50,000	-	-	-	200,000	-	-
Stazio Refurbish Restrooms and Concessions	160,000	-	160,000	-	-	-	-	160,000	-	-
East Boulder Community Center Renovation	1,100,000					100,000	100,000	200,000	-	900,000
Tantra Shop Renovation	300,000	-	-	-	-	-	300,000	300,000	-	-
West Senior Center Major Maintenance & Rehab	700,000	-	-	-	-	-	700,000	700,000	-	-
Subtotal	$ 3,210,000	$ 400,000	$ 660,000	$ 50,000	$ -	$ 100,000	$ 1,100,000	$ 2,310,000	$ -	$ 900,000
Capital Maintenance										
Fleet Services, Rpl Emergency Generator +	$ 400,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ 100,000	$ -
Main Library Reconstruct North Plaza	147,000	147,000	-	-	-	-	-	147,000	-	-
Miscellaneous Facility Maintenance Projects	2,495,000	340,000	370,000	415,000	380,000	400,000	400,000	2,305,000	190,000	-
Mapleton Ballfields, Renovate Concessions and Restrooms +	100,000	-	100,000	-	-	-	-	100,000	-	-
East Boulder Community Center - Replace Pool Air Handlers	500,000	-	-	500,000	-	-	-	500,000	-	-
Replaster Pools +	80,000	-	-	80,000	-	-	-	80,000	-	-
Stazio Tensile Canopy Covering Replacement	132,000	-	-	132,000	-	-	-	132,000	-	-
Martin Park Shelter Major Maintenance	169,000	-	-	-	169,000	-	-	169,000	-	-
North Boulder Park Shelter Repair	120,000	-	-	-	120,000	-	-	120,000	-	-
FlatIrons Event Center Major Repairs	600,000	-	-	-	-	-	600,000	600,000	-	-
Subtotal	$ 4,743,000	$ 537,000	$ 520,000	$ 1,177,000	$ 719,000	$ 450,000	$ 1,050,000	$ 4,453,000	$ 290,000	$ -
Capital Planning Studies										
Facility Assessments	$ 300,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Subtotal	$ 300,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Total	**$ 8,253,000**	**$ 987,000**	**$ 1,230,000**	**$ 1,277,000**	**$ 769,000**	**$ 600,000**	**$ 2,200,000**	**$ 7,063,000**	**$ 290,000**	**$ 900,000**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

GENERAL FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
JSI Upgrade	$ 135,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 135,000	$ -
Subtotal	$ 135,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 135,000	$ -
Total	**$ 135,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 135,000**	**$ -**

GREENWAYS PROGRAM

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Wonderland Creek at 28th Street	$ -	$ 295,000	$ 270,441	$ -	$ -	$ -	$ -	$ 565,441	$ -	
Fourmile Canyon Creek - Upland to Violet	-	-	-	270,441	270,441	270,441	270,441	1,081,764	-	-
Fourmile Canyon Creek at Crestview & 19th	-	-	-	-	-	-	-	-	747,633	
Wonderland Creek - Foothills to 30th Street	-	-	-	-	-	-	-	-	391,716	-
Subtotal	$ -	$ 295,000	$ 270,441	$ 270,441	$ 270,441	$ 270,441	$ 270,441	$ 1,647,205	$ 1,139,349	$ -
Capital Maintenance										
Miscellaneous Water Quality, Restoration and Trail Improvements	$ -	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Subtotal	$ -	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Total	**$ -**	**$ 345,000**	**$ 320,441**	**$ 320,441**	**$ 320,441**	**$ 320,441**	**$ 320,441**	**$ 1,947,205**	**$ 1,139,349**	**$ -**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

LOTTERY FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
OSMP - Historical Structures & Trails - Stabilization & Restoration	$ -	$ 343,000	$ 355,300	$ 355,300	$ 355,300	$ 355,300	$ 355,300	$ 2,119,500	$ 343,000	$ -
Playground and Park Irrigation System Renovation - Lottery	460,300	-	-	230,300	230,000	-	-	460,300	-	-
Subtotal	$ 460,300	$ 343,000	$ 355,300	$ 585,600	$ 585,300	$ 355,300	$ 355,300	$ 2,579,800	$ 343,000	$ -
Capital Maintenance										
Pearl Street Mall Irrigation System Replacement - Lottery	$ -	$ 200,000	$ 200,000	$ -	$ -	$ -	$ -	$ 400,000	$ 200,000	$ -
Subtotal	$ -	$ 200,000	$ 200,000	$ -	$ -	$ -	$ -	$ 400,000	$ 200,000	$ -
Transfer										
Tributary Greenways Program - Lottery	$ -	$ 150,000	$ 125,400	$ 125,400	$ 125,400	$ 125,400	$ -	$ 651,600	$ -	$ -
Subtotal	$ -	$ 150,000	$ 125,400	$ 125,400	$ 125,400	$ 125,400	$ -	$ 651,600	$ -	$ -
Total	**$ 460,300**	**$ 693,000**	**$ 680,700**	**$ 711,000**	**$ 710,700**	**$ 480,700**	**$ 355,300**	**$ 3,631,400**	**$ 543,000**	**$ -**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

OPEN SPACE FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
OSMP North Trail Study Area (NTSA)	$ 600,000	$ 50,000	$ 50,000	$ 100,000	$ 200,000	$ 100,000	$ 50,000	$ 550,000	$ 50,000	$ -
OSMP West Trail Study Area (WTSA)	3,319,486	500,000	550,000	550,000	450,000	600,000	50,000	2,700,000	619,486	-
Visitor Infrastructure - System Wide	-	350,000	300,000	250,000	200,000	200,000	500,000	1,800,000	-	-
OSMP East Trail Study Area (ETSA)	300,000	-	-	-	50,000	50,000	200,000	300,000	-	-
Subtotal	$ 4,219,486	$ 900,000	$ 900,000	$ 900,000	$ 900,000	$ 950,000	$ 800,000	$ 5,350,000	$ 669,486	$ -
Capital Maintenance										
OSMP ReRoute Flagstaff Trail bt Crow n Rock and Baseline	$ 120,000	$ 120,000	$ -	$ -	$ -	$ -	$ -	$ 120,000	$ -	$ -
OSMP ReRoute Green Mountain West Ridge	60,000	60,000	-	-	-	-	-	60,000	-	-
OSMP ReRoute Saddle Rock Trail	65,000	65,000	-	-	-	-	-	65,000	-	-
OSMP ReRoute Ute and Range View Trails	65,000	65,000	-	-	-	-	-	65,000	-	-
Subtotal	$ 310,000	$ 310,000	$ -	$ -	$ -	$ -	$ -	$ 310,000	$ -	$ -
Land and Asset Acquisition										
Mineral Rights Acquisition	$ -	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 600,000	$ -	$ -
OSMP Real Estate Acquisition Program	-	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	-	-
Water Rights Acquisition	-	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	-	-
Subtotal	$ -	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 34,200,000	$ -	$ -
New Capital Project										
South Boulder Creek Instream Flow	$ 2,400,000	$ 100,000	$ 150,000	$ 2,000,000	$ -	$ -	$ -	$ 2,250,000	$ 150,000	$ -
Subtotal	$ 2,400,000	$ 100,000	$ 150,000	$ 2,000,000	$ -	$ -	$ -	$ 2,250,000	$ 150,000	$ -
Total	**$ 6,929,486**	**$ 7,010,000**	**$ 6,750,000**	**$ 8,600,000**	**$ 6,600,000**	**$ 6,650,000**	**$ 6,500,000**	**$ 42,110,000**	**$ 819,486**	**$ -**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

PERMANENT PARKS AND RECREATION FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Flatirons Golf Course Irrigation System Replacement	$ 1,795,263	$ 600,000	$ -	$ -	$ -	$ -	$ -	$ 1,200,000	$ 595,263	$ -
NBRC: Interior Circulation Study/Improvements	280,000	-	280,000	-	-	-	-	280,000	-	-
Artificial Turf Field Installation	1,500,000	-	-	500,000	500,000	500,000	-	1,500,000	-	-
Lighting Ordinance Implementation	500,000	-	-	250,000	250,000	-	-	500,000	-	-
Playground and Park Irrigation System Renovation	900,000	-	-	300,000	300,000	300,000	-	900,000	-	-
Subtotal	$ 4,975,263	$ 600,000	$ 280,000	$ 1,050,000	$ 1,050,000	$ 800,000	$ -	$ 4,380,000	$ 595,263	$ -
Capital Maintenance										
Pearl Street Mall Irrigation System Replacement	1,500,000	300,000	350,000	-	-	-	-	650,000	250,000	-
Pool Replastering	230,000	100,000	75,000	-	-	-	-	175,000	55,000	-
Subtotal	$ 1,730,000	$ 400,000	$ 425,000	$ -	$ -	$ -	$ -	$ 825,000	$ 305,000	$ -
New Capital Project										
Violet Park	$ 500,000	$ -	$ -	$ -	$ -	$ -	$ 500,000	$ 500,000	$ -	$ -
Subtotal	$ 500,000	$ -	$ -	$ -	$ -	$ -	$ 500,000	$ 500,000	$ -	$ -
Total	**$ 7,205,263**	**$ 1,000,000**	**$ 705,000**	**$ 1,050,000**	**$ 1,050,000**	**$ 800,000**	**$ 500,000**	**$ 5,705,000**	**$ 900,263**	**$ -**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

STORMWATER AND FLOOD MANAGEMENT UTILITY FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Fourmile Canyon Creek at Crestview & 19th	$ 2,222,159	$ 600,000	$ -	$ -	$ -	$ -	$ -	$ 600,000	$ 874,526	$ -
Stormwater Quality Improvements	-	104,000	108,160	112,486	116,986	121,665	126,532	689,829	-	-
Wonderland Creek - Foothills to 30th Street	10,109,484	4,000,000	-	-	-	-	-	4,000,000	5,717,768	-
Wonderland Creek at 28th Street	5,915,441	4,000,000	-	-	-	-	-	4,000,000	1,350,000	-
Upper Goose Creek Drainage	17,905,163	-	175,000	750,000	750,000	750,000	1,000,000	3,425,000	-	14,480,163
Fourmile Canyon Creek - Upland to Violet	3,500,000	-	-	500,000	500,000	500,000	250,000	1,750,000	-	668,236
South Boulder Creek Flood Mitigation Phase I	15,875,000	-	-	-	5,575,000	-	-	5,575,000	300,000	10,000,000
Utility Billing Computer System Replacment	250,000	-	-	-	250,000	-	-	250,000	-	-
Subtotal	$ 55,777,247	$ 8,704,000	$ 283,160	$ 1,362,486	$ 7,191,986	$ 1,371,665	$ 1,376,532	$ 20,289,829	$ 8,242,294	$ 25,148,399
Capital Maintenance										
Storm Sewer Rehabilitation	$ -	$ 260,000	$ 270,400	$ 281,216	$ 292,465	$ 304,163	$ 316,330	$ 1,724,574	$ -	$ -
Transportation Coordination	-	260,000	270,400	281,216	292,465	304,163	316,330	1,724,574	-	-
Subtotal	$ -	$ 520,000	$ 540,800	$ 562,432	$ 584,930	$ 608,326	$ 632,660	$ 3,449,148	$ -	$ -
Land and Asset Acquisition										
Preflood Property Acquisition	$ -	$ 500,000	$ 500,000	$ 500,000	$ 550,000	$ 600,000	$ 633,000	$ 3,283,000	$ -	$ -
Subtotal	$ -	$ 500,000	$ 500,000	$ 500,000	$ 550,000	$ 600,000	$ 633,000	$ 3,283,000	$ -	$ -
Transfer										
Tributary Greenways Program - Stormwater & Flood	$ -	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 585,000	$ -	$ -
Subtotal	$ -	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 585,000	$ -	$ -
Total	**$ 55,777,247**	**$ 9,821,500**	**$ 1,421,460**	**$ 2,522,418**	**$ 8,424,416**	**$ 2,677,491**	**$ 2,739,692**	**$ 27,606,977**	**$ 8,242,294**	**$ 25,148,399**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

TRANSPORTATION FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
28th St (Baseline to Iris)	$ -	$ 860,000	$ 860,000	$ 860,000	$ 860,000	$ -	$ -	$ 3,440,000	$ -	$ -
City Yards Frontage Site Preparation for Potential Pollard Relocation	1,225,000	1,225,000	-	-	-	-	-	1,225,000	-	-
Valmont & 29th/Hazard Elimination	3,015,000	3,015,000	-	-	-	-	-	3,015,000	-	-
Subtotal	$ 4,240,000	$ 5,100,000	$ 860,000	$ 860,000	$ 860,000	$ -	$ -	$ 7,680,000	$ -	$ -
Capital Maintenance										
Pedestrian Facilities - Repair, Replacement, ADA	$ -	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 3,774,000	$ -	$ -
Subtotal	$ -	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 3,774,000	$ -	$ -
Capital Planning Studies										
Transportation Master Plan Study	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
Subtotal	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
New Capital Project										
28th St. Bike/Pedestrian Improvements: Iris to Yarmouth	$ 2,224,000	$ 1,324,000	$ -	$ -	$ -	$ -	$ -	$ 1,324,000	$ 900,000	$ -
Baseline Underpass: Broadway to 28th	5,400,000	2,462,000	-	-	-	-	-	2,462,000	2,938,000	-
Bikeway Facilities - Enhancements	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
Pedestrian Facilities Enhancements-Missing Links, Crossing Treatments	-	75,000	75,000	75,000	75,000	75,000	75,000	450,000	-	-
TIP Local Match/TMP Implementation	-	800,000	1,300,000	1,300,000	1,300,000	1,800,000	1,800,000	8,300,000	-	-
Subtotal	$ 7,624,000	$ 4,786,000	$ 1,500,000	$ 1,500,000	$ 1,500,000	$ 2,000,000	$ 2,000,000	$ 13,286,000	$ 3,838,000	$ -
Transfer										
Boulder Junction Improvements - Transfer	$ -	$ 200,000	$ -	$ -	$ -	$ -	$ -	$ 200,000	$ -	$ -
Tributary Greenways Program - Transportation - Transfer	-	97,500	97,500	97,500	97,500	97,500	97,500	585,000	-	-
Subtotal	$ -	$ 297,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 785,000	$ -	$ -
Total	**$ 11,964,000**	**$ 10,912,500**	**$ 3,086,500**	**$ 3,086,500**	**$ 3,086,500**	**$ 2,726,500**	**$ 2,726,500**	**$ 25,625,000**	**$ 3,838,000**	**$ -**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

TRANSPORTATION DEVELOPMENT FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
28th St (Baseline to Iris) II	$ 4,673,993	$ 470,000	$ 470,000	$ 470,000	$ 470,000	$ -	$ -	$ 1,880,000	$ 2,391,000	$ -
Miscellaneous Development Coordination	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	50,000	-
Signal Maintenance and Upgrade	-	200,000	-	-	-	200,000	-	400,000	-	-
Subtotal	$ 4,673,993	$ 720,000	$ 520,000	$ 520,000	$ 520,000	$ 250,000	$ 50,000	$ 2,580,000	$ 2,441,000	$ -
New Capital Project										
TIP Local Match/TMP Implementation II	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ 400,000	$ 700,000	$ -	$ -
Subtotal	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ 400,000	$ 700,000	$ -	$ -
Total	**$ 4,673,993**	**$ 720,000**	**$ 520,000**	**$ 520,000**	**$ 520,000**	**$ 550,000**	**$ 450,000**	**$ 3,280,000**	**$ 2,441,000**	**$ -**

WASTEWATER UTILITY FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Biosolids Processing and Dewatering	$ 150,000	$ 150,000	$ -	$ -	$ -	$ -	$ -	$ 150,000	$ -	$ -
Wastewater Treatment Facility Electrical	1,420,000	100,000	-	120,000	1,200,000	-	-	1,420,000	-	-
Wastewater Treatment Facility Instrumentation/Control	9,131,068	520,000	540,800	-	674,918	701,915	729,992	3,167,625	175,600	5,787,843
Wastewater Treatment Facility Permit Improvements - Funded	4,712,234	200,000	1,650,000	150,000	-	750,000	1,500,000	4,250,000	462,234	-
Wastewater Treatment Facility Pumps	448,413	150,000	-	150,000	-	-	-	300,000	148,413	-
Wastewater Treatment Facility Activated Sludge	710,961	-	389,376	-	58,493	-	-	447,869	-	263,092
Marshall Landfill	100,000	-	-	100,000	-	-	-	100,000	-	-
Wastewater Treatment Facility Laboratory	100,000	-	-	50,000	-	-	-	50,000	50,000	-
Goose Creek Sanitary Sewer Interceptor Rehabilitation	3,289,851	-	-	-	25,000	622,683	1,295,181	1,942,864	-	1,346,987
Utility BillingComputer System Replacement	267,596	-	-	-	250,000	-	-	250,000	17,596	-
Subtotal	$ 20,330,123	$ 1,120,000	$ 2,580,176	$ 570,000	$ 2,208,411	$ 2,074,598	$ 3,525,173	$ 12,078,358	$ 853,843	$ 7,397,922
Capital Maintenance										
Collection System Monitoring	$ -	$ 50,000	$ -	$ -	$ 58,493	$ -	$ -	$ 108,493	$ 50,000	$ -
Sanitary Sewer Manhole Rehabilitation	-	104,000	108,160	112,486	116,986	121,665	126,532	689,829	-	-
Sanitary Sewer Rehabilitation	-	520,000	540,800	562,432	584,929	608,326	632,660	3,449,147	-	-
Subtotal	$ -	$ 674,000	$ 648,960	$ 674,918	$ 760,408	$ 729,991	$ 759,192	$ 4,247,469	$ 50,000	$ -
Total	**$ 20,330,123**	**$ 1,794,000**	**$ 3,229,136**	**$ 1,244,918**	**$ 2,968,819**	**$ 2,804,589**	**$ 4,284,365**	**$ 16,325,827**	**$ 903,843**	**$ 7,397,922**

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

WATER UTILITY FUND

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Betasso Water Treatment Facility	$ 17,720,903	$ 600,000	$ 1,049,628	$ 15,621,275	$ -	$ 350,000	$ -	$ 17,620,903	$ 100,000	$ -
Boulder Canyon Hydro	4,859,475	125,000	-	-	-	-	-	125,000	4,734,475	-
Boulder Reservoir Water Treatment Facility - Funded	246,000	82,000	-	164,000	-	-	-	246,000	-	-
Barker Dam and Reservoir	498,560	-	378,560	-	-	-	-	378,560	120,000	-
Lakewood Hydroelectric / Pressure Reducing Facility	400,000	-	100,000	-	-	-	300,000	400,000	-	-
Barker Dam Outlet	8,572,652	-	-	75,000	772,514	7,725,138	-	8,572,652	-	-
Utility Billing Computer System Replacement	529,104	-	-	-	500,000	-	-	500,000	29,104	-
Green Lake 2 Dam	4,835,130	-	-	-	-	432,739	4,327,391	4,760,130	75,000	-
Lakewood Dam	124,707	-	-	-	-	124,707	-	124,707	-	-
Pearl Street Hydroelectric / Pressure Reducing Facility	267,664	-	-		-	24,333	243,331	267,664	-	-
Wittemyer Ponds - Funded	573,735	-	-	-	-	100,000	473,735	573,735	-	-
Subtotal	$ 38,627,930	$ 807,000	$ 1,528,188	$ 15,860,275	$ 1,272,514	$ 8,756,917	$ 5,344,457	$ 33,569,351	$ 5,058,579	$ -
Capital Maintenance										
Barker Gravity Pipeline Repair	$ -	$ 364,000	$ 378,560	$ 667,416	$ 612,436	$ 636,933	$ 662,410	$ 3,321,755	$ -	$ -
Lakewood Pipeline	576,330	260,000	-	-	-	-	316,330	576,330	-	-
Waterline Replacement	14,486,418	2,184,000	2,271,360	2,362,214	2,456,703	2,554,971	2,657,170	14,486,418	-	-
Watershed Improvements	240,000	80,000	80,000	80,000	-	-	-	240,000	-	-
Kohler Storage Tank	1,138,362	-	103,487	1,034,875	-	-	-	1,138,362	-	-
Betasso Hydroelectric / Pressure Reducing Facility	100,000	-	-	100,000	-	-	-	100,000	-	-
Barker-Kossler Penstock Repair	116,986	-	-	-	116,986	-	-	116,986	-	-
Betasso Storage Tank	292,465	-	-	-	292,465	-	-	292,465	-	-
Sunshine Hydroelectric / Pressure Reducing Station	271,875	-	-	-	271,875	-	-	271,875	-	-
Water Transmission Facilities (Zone 2)	250,000	-	-	-	250,000	-	-	250,000	-	-
Water Transmission Facilities (Zone 1)	250,000	-	-	-	-	250,000	-	250,000	-	-
Water Transmission Facilities (Zone 3)	250,000	-	-	-	-	-	250,000	250,000	-	-
Subtotal	$ 17,972,436	$ 2,888,000	$ 2,833,407	$ 4,244,505	$ 4,000,465	$ 3,441,904	$ 3,885,910	$ 21,294,191	$ -	$ -
Capital Planning Studies										
Albion Dam - Funded	$ 80,000	$ 80,000	$ -	$ -	$ -	$ -	$ -	$ 80,000	$ -	$ -
Subtotal	$ 80,000	$ 80,000	$ -	$ -	$ -	$ -	$ -	$ 80,000	$ -	$ -

Table 2-3: 2014-2019 Funding Summary by Fund (Cont.)

WATER UTILITY FUND (Cont.)

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
New Capital Project										
NCWCD Conveyance - Carter Lake Pipeline	$ 31,174,987	$ 250,000	$ 500,000	$ 850,000	$ 2,737,469	$ 25,874,690	$ -	$ 30,212,159	$ 962,828	$ -
Barker Dam Hydroelectric	4,024,805	-	-	50,000	361,346	3,613,459	-	4,024,805	-	-
Source Water Monitoring	293,200	-	-	50,000	50,000	50,000	50,000	200,000	93,200	-
Carter Lake Hydroelectric	2,800,000	-	-	-	50,000	250,000	2,500,000	2,800,000	-	-
Subtotal	$ 38,292,992	$ 250,000	$ 500,000	$ 950,000	$ 3,198,815	$ 29,788,149	$ 2,550,000	$ 37,236,964	$ 1,056,028	$ -
Total	**$ 94,973,358**	**$ 4,025,000**	**$ 4,861,595**	**$ 21,054,780**	**$ 8,471,794**	**$ 41,986,970**	**$ 11,780,367**	**$ 92,180,506**	**$ 6,114,607**	**$ -**

City of Boulder

SPECIAL HIGHLIGHT ON CAPITAL IMPROVEMENT BOND

2014-2019 Capital Improvement Program

Introduction

The Special Highlight on the Capital Improvement Bond section details a significant, multi-department, capital improvement effort currently underway in the City of Boulder. This section includes information on the Capital Improvement Bond issuance, projects funded by the bond, and current status of the projects. A map of the location of bond projects is available at www.bouldercolorado.gov/bondprojects.

Overview of Capital Investment Strategy and Capital Improvement Bond Implementation

In the November 2011 election, City of Boulder voters approved a measure, by a 3-to-1 margin, that would allow the city to leverage existing revenues to bond for up to $49 million to fund capital projects that address significant deficiencies and high priority infrastructure improvements throughout the community. Because the city was able to leverage existing revenues, the measure did not raise taxes.

To help determine which projects should be part of the 2011 bond package, the city manager appointed a 16-member Capital Investment Strategy stakeholder committee in May, 2011. The committee finalized its recommendations July 11, 2011, which was unanimously supported by City Council and approved by voters. The bond will pay for a list of necessary but previously unfunded projects.

The bond requires that 85 percent of the $49 million be spent in three years (by March 22, 2015). The bond also requires that the funds be used for capital improvement projects that include:

- Repairing and maintaining streets and pathways
- Repairing and replacing structurally deficient bridges and structures
- Completing missing links in the transportation system
- Repairing and renovating aging city facilities
- Replacing and modernizing core service computer software
- Modernizing basic police and fire safety facilities and equipment
- Renovating and repairing parks and recreation facilities
- Renovating portions of the main library
- Improving connections and streetscapes downtown.

Highlights at a Glance

- **26** categories containing a total of **nearly 100** individual projects:
  - **49%** in design & planning phase
  - **20%** under construction
  - **2%** nearly complete
  - **29%** completed
- **57%** of total funding spent or encumbered towards 85% goal as of May 31, 2013.

As a result, the city is implementing nearly 100 individual projects throughout the community that are funded by the bond. On Jan. 30, 2012, the city broke ground on the first bond project, a multi-use path connection along the south side of Baseline, near the University of Colorado's Williams Village complex. Throughout the next few years, there will be more construction and improvements occurring along roadways, bike paths, in city buildings and in parks. A website has been created that allows the community to track the progress of implementation of the bond projects at www.bouldercolorado.gov/bondprojects.

Background on Bond Issuance

On February 21, 2012, City Council approved Ordinance No. 7236, which authorized the City of Boulder to issue $49 million of General Fund bonds for the purpose of funding capital improvement projects. The bond sale was completed March 22, 2012 using the competitive process required by the City Charter to sell the bonds. The $49 million of bonds have a 20-year payback and 85 percent of the total of the bonds is required to be spent by March 22, 2015.

Groundbreaking of the first Capital Improvement Bond project in January 2012.

Due to market conditions at the time that the bonds were sold, the lowest conforming bid with best advantage for the city paid a "premium" to purchase the bonds. The City has received a premium on other past bond issues. A premium occurs when a purchaser is willing to pay more than the face amount of bonds, and in this case, the purchaser was willing to pay an additional $5.83 million to buy the bonds. This $5.83 million does not count against the voted par amount of $49 million debt issuance. The $5.83 million is, however, subject to the federal tax laws governing the City's issuance and does count toward the requirement that 85% of the total ($54.83 million) be spent by March 22, 2015. The premium is being held in reserve and released over time for either unanticipated expenses for current projects or completing additional projects permitted within the parameters of the bond documents.

Project Highlights and Status

There are nearly 100 individual projects that are being implemented with the bond funds. The individual projects are grouped into 26 categories which are briefly described below along with the current status of the projects as of July 2013. Details related to each project can be found at www.bouldercolorado.gov/bondprojects.

1. **Boulder Reservoir Infrastructure Improvements**: Includes improving the entry gate, roadway, parking lot, utility infrastructure, and grounds and landscape. The new Gateway Enhancement project at the main Reservoir entrance at 51st Street is complete and will provide improved traffic access, new entry buildings and an improved inspection station for Aquatic Nuisance Species (ANS). Utility upgrades are under construction and will provide improved water and sanitary sewer facilities at the reservoir.

2. **Columbia Cemetery Upgrades and Enhancements**: Includes constructing new fencing, repairing headstones and improving irrigation. A new fence has been installed along the west property boundary in keeping with the historic quality of the cemetery. The next phase of construction will include installation of a new raw-water irrigation system to improve water conservation and efficiency.

3. **Park Shelter Replacements and Improvements**: Includes maintaining existing park shelters and providing critical shade amenities within multiple parks. Shade shelters at Valmont City Park Foothills Dog Park, Eaton Park, Martin Park, and Pleasant View Fields are completed, with several additional shelters planned.

4. **Existing Park and Recreation Facility Renovations**: Includes addressing ongoing maintenance and accessibility while improving the overall safety and enjoyment of park facilities. Canyon Park, Columbine Park, Harlow Platts Park, Pineview Park and East Palo Park are completed with improvements ranging from turf and irrigation renovations, playground replacement, accessibility compliance and replacement of park amenities. Pleasant View Sports facility, Mapleton Ballfields, and Stazio ballfields all have completed parking lot and ADA compliance upgrades. Arapahoe Ridge Park and Crestview Park will begin design in 2013, with construction in 2014.

5. **South Boulder Recreation Center Floor Replacement**: Includes replacing water-damaged wooden floor at the South Boulder Recreation Center (SBRC) gym and racquetball courts. During the design and investigative stages in January 2012, low levels of mercury and lead contamination were found in the underlying floor membrane in the gym, racquetball and Pilates rooms. Although posing no immediate risks to patrons and staff, it was decided to remove the old flooring system in all three rooms. The floor has been replaced and is open for use by the community. The project will be completed in fall 2013 with the final phase of the project providing necessary ADA compliance upgrades that will allow full access to the new gym floor by all members of the community.

6. **Downtown Commercial District Improvements**: Includes public right-of-way enhancements to downtown commercial district and Pearl Street Mall. 15th Street between Arapahoe and Canyon to improve pedestrian accessibility as well as streetscape character is under construction. Streetscape improvements on Pearl Street from 11th to 8th Streets is in the final design stages. An interdepartmental city team and Convention and Visitors Bureau staff are working jointly to place an interactive kiosk for public use on the Pearl Street Mall.

7. **Main Library Renovation:** Includes three critical renovations and improvements to the Main Library: (a) new children's library to be located in the area near and including the Boulder Creek Room; (b) new teen space; and (c) improved access and browsing area for fiction, movies and music collections near the main entrance on Arapahoe Avenue. The design phase is nearly complete.

8. **Replace Financial and Human Resources Software:** A Request for Proposals (RFP) was issued in 2012. Tyler Technologies has been selected as the vendor and final contract negotiation is nearing completion. The system design and business process development is underway. Go-live date is expected in the final quarter of 2014 for Finance, and early 2015 for HR/Payroll.

9. **Major Business Software Replacement:** Includes replacing and augmenting major business software, such as asset/maintenance management, records management, website/eGov, and permit systems. The new website is completed and launched on July 17, 2013. In addition, a web-based Constituent Relationship Management (CRM) system has been implemented with the new website, called Inquire Boulder. The procurement process for the permit and licensing system replacement is underway.

10. **Facility Electrical, Plumbing, HVAC and Elevator Replacements:** Includes infrastructure replacement for overdue replacement and repair projects such as at the Public Safety Building, Municipal Building, Main Library, Dairy Center, and Fleet Services. Design and construction for these projects is underway as part of the city's Energy Performance Contract, with the exception of the elevator repairs at the Public Safety Building and Main Library which were completed by an elevator contractor.

11. **Facility Parking Lot Repair:** Includes repair and complete maintenance needs for some of the city's asphalt parking areas, including downtown facilities and fire stations. The 20 parking lots to be repaired in 2012 and 2013 include lots in the downtown campus area, the fire stations, Spruce Pool, Reynolds Library, Harbeck House, and the Dairy Center.

12. **Facility Outdoor Lighting:** Includes parking lot lights in the public lot next to the Park Central building at the corner of Broadway and Arapahoe. This funding will provide for a solar canopy, car charging, and lighting projects, which would eliminate electrical conduit runs.

13. **Facility ADA Compliance:** Includes adapting potentially up to 56 city facilities that do not meet the 2010 requirements of the Americans with Disabilities Act (ADA). This project is also being coordinated with the parking lot repair project in 2012 and 2013.

14. **New Wildland Fire Station:** Includes consolidating the operations of the Boulder Fire-Rescue Department's Wildland Fire personnel into one facility from the three facilities they currently use. Design is underway. Construction is scheduled to start in late 2013 or early 2014.

15. **Replace Substandard Bridges, Structures, Signs and Systems:** Includes the replacement of the 63rd Street Bridge, irrigation system replacement on the Foothills Parkway landscaping,

replacement of substandard signs and the replacement of signal light bulbs with LED lights. The Foothills irrigation system replacement between Colorado and US 36 has been completed. The substandard sign replacements have been completed and all of the traffic signal lighting (red, yellow and green) has been replaced with LED displays. The 63rd Street bridge project is in design.

16. **Arterial Road Reconstruction**: Arapahoe is the arterial in highest need of reconstruction, and this project will allow the worst sections of Arapahoe to be reconstructed (From Folsom to 15th Street). The project is under construction and anticipated to be complete by the fall of 2014.

17. **Road Pavement Repair**: Includes overlay and chip seal of various streets throughout the city. Approximately one-third of the funds will be spent each year to overlay approximately 50 blocks, or 5.5 miles, of roadway, in addition to the city's annual repair schedule.

18. **Road Reconstruction**: Includes reconstruction of streets that rate below 25, on the Overall Condition Index (OCI) that are mostly lower volume streets and cul-de-sacs. Approximately one-third of the funds will be spent each year to reconstruct approximately 14 blocks, or approx 1.5 miles of roadway, in addition to the city's annual reconstruction schedule.

19. **Transportation Boulder Junction Improvements**: Includes the Junction Place Bridge at Goose Creek and the Pearl Parkway Multi-Way Boulevard from 30th to BNSF Railroad tracks on the south side of Pearl. Pearl Parkway is under construction, and the Junction Place Bridge will begin construction in the fall of 2013.

20. **Transportation Transit System Enhancements**: Includes two projects, the largest of which is the 14th and Walnut Street Transit Center Improvements, which is under construction. The second project provides additional money for transit stop improvements throughout the city, which is in the design phase.

21. **Transportation New Multi-Use Path Connections**: Includes constructing a multi-use path on 28th Street from Arapahoe to Goose Creek, which is in the design process. It also includes various multi-use path connections throughout the city. A connection on the south side of Baseline east and west of 30th Street and pedestrian crossing improvements at Baseline and Canyon Creek were completed in 2012.

22. **Transportation Pedestrian Enhancements**: Includes pedestrian crossing treatments, small and large missing sidewalk links and pedestrian improvements at Manhattan and S. Boulder Road. The enhancements to the pedestrian crossing at Canyon and 21st Street have been completed as well as the missing link on Gillaspie from Greenbriar to Julliard, Folsom south of Arapahoe on the east side, and on Pine Street and 27th Street.

23. **Transportation Intersection Improvements**: Includes improvements at the Foothills/Baseline intersection, the Diagonal/Foothills intersection and the South Boulder Road/Manhattan Intersection. These projects are in the design stage.

24. **Transportation Bike System Enhancements**: Includes additional bike system signage such as the designation of new on-street bike routes and installing way-finding and destination signs along existing greenways. Sign installation is on-going. The remaining money is for striping new on-street bike lanes on existing streets identified in the Transportation Master Plan, which is underway.

25. **Police Equipment**: Includes upgrading the records management system and adding more in-car video systems to the patrol fleet. The records system server upgrade is complete, and in-car and personal video systems are being purchased.

26. **Police Equipment Upgrades and Replacement**: Includes replacing the bomb squad robot, and purchasing equipment to operate a DNA Lab in Boulder in partnership with the Colorado Bureau of Investigation (CBI), and upgrading the emergency radio infrastructure. These projects are all complete.

Implementation

To ensure that the city meets the spending and timing requirements of the capital improvement bond, the city has collected spending plans for each project and closely monitors construction progress. Table 3-1 shows the annual expenditure plan for each project for 2011 through 2015.

Next Steps

Council will be updated on the capital improvement bond progress through semiannual updates as part of Information Packet items.

In addition, public updates will be announced through press releases, social media and other commemorative events as some of the key projects break ground or are completed. Information on those projects that have traffic or multi-use path impacts will be provided to the public and media through weekly "Cone Zones" reports and other outreach materials. A map of the projects and status updates are available at www.bouldercolorado.gov/bondprojects.

Future CIP documents will continue to include a section on the capital bond projects until they are completed.

For detailed project sheets on each of the bond funded projects, please see https://www-static.bouldercolorado.gov/docs/2013_Annual_Budget_Vol2-1-201305231535.pdf

Table 3-1: 2011-2015 Spend Plan

CAPITAL IMPROVEMENT BOND

	Total Amount	2011 Actual	2012 Actual	2013 Projected	2014 Projected	2015 Projected
Arterial Road Reconstruction	5,000,000	-	292,179	1,688,346	3,299,475	-
Boulder Reservoir Infrastructure Improvements	$ 3,000,000	$ -	$ 794,813	$ 2,398,274	$ 427,822	$ -
Columbia Cemetery Upgrades and Enhancements	550,000	-	87,281	328,206	341,512	-
Downtown Commercial District Improvements	2,500,000	-	79,090	900,691	1,255,336	-
Existing Park and Recreation Facility Renovations	3,700,000	-	1,605,007	1,433,316	661,677	-
Facility ADA Compliance	500,000	-	466,362	1,114,598	-	-
Facility Electrical, Plumbing, HVAC and Elevator Rep.	925,000	-	50,425	176,721	272,854	-
Facility Outdoor Lighting	50,000	-	8,610	41,390	-	-
Facility Parking Lot Repair	500,000	-	19,754	480,246	-	-
Main Library Renovations	2,450,000	-	12,480	768,020	1,669,500	-
Major Business Software Replacement	1,602,600	-	25,000	415,629	861,974	300,000
New Wildland Fire Station	1,150,000	-	20,326	551,924	1,194,750	-
Park Shelter Replacements and Improvements	1,000,000	-	355,534	286,464	358,002	-
Police Equipment	328,000	-	71,224	168,597	13,469	-
Police Equipment Upgrades and Replacement	660,000	-	369,937	450,112	-	-
Replace Financial and Human Resources Software	2,803,000	-	475,562	2,188,038	1,836,400	-
Replace Substandard Bridges, Structures, Signs & Sys.	4,500,000	-	259,170	1,399,867	1,294,218	-
Road Pavement Repair	5,000,000	-	1,568,616	2,818,416	612,969	
Road Reconstruction	2,500,000	-	525,960	1,519,674	454,366	
South Boulder Recreation Center Floor Replacement	450,000	-	205,236	65,067	-	-
Transportation Bike System Enhancements	300,000	5,120	106,235	103,646	85,000	-
Transportation Boulder Junction Improvements	5,060,000	-	855,191	2,887,588	1,717,221	-
Transportation Intersection Improvements	500,000	-	13,454	286,529	200,017	-
Transportation New Multi Use Path connections	2,000,000	5,229	354,468	1,110,981	529,322	-
Transportation Pedestrian Enhancements	850,000	5,658	285,530	308,113	250,699	-
Transportation Transit System Enhancements	600,000	-	127,041	413,635	59,325	-
Total	**$ 48,478,600**	**$ 16,007**	**$ 9,034,485**	**$ 24,304,087**	**$ 17,395,906**	**$ 300,000**

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City of Boulder

DOWNTOWN/UNIVERSITY HILL MANAGEMENT DIVISION & PARKING SERVICES

2014-2019 Capital Improvement Program

Funding Overview

Downtown and University Hill Management Division/Parking Services (DUHMD/PS) manages programs in five funds:

- Downtown Commercial District Fund – including restricted Central Area General Improvement District (CAGID) parking and tax revenues and on-street meter revenues
- University Hill Commercial District Fund – including restricted University Hill General Improvement District (UHGID) parking and tax revenues and on-street meter revenues
- Boulder Junction Access District (BJAD) Funds – Parking and Travel Demand Management (TDM) – including district tax revenues and eventually PILOT (payment in lieu of taxes) payments and parking revenues.
- General Fund – including on-street parking revenues, Neighborhood Parking Permit program revenues and parking enforcement revenues.

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects managed by DUHMD/PS. CIB funding is indicated by the following symbol:

Accomplishments and Highlights

Projects to be Completed in 2013:

- CAGID Garage Improvements: A new signage program will be completed in the five garages that includes variable messaging, new canopies and "lollipop" branding signage
- Downtown 14th Street Parking Lots: Patching and striping will be completed until enough funds for new paving accumulate
- CAGID Garage Major Maintenance: Structural repairs to T-Beams at 1400 Walnut. Spandrel repair at 1100 Walnut. Concrete lane coating and epoxy at 1400 Walnut. Additional touch up painting at all of the garages
- Downtown/Pearl Street Mall Improvements and Amenities Replacement: Replacement of all loop fencing in the 1100 block of the mall, news rack replacement, removal of all pay phone kiosks, no smoking signage fabricated and installed, light pole painting, and accumulate funds for major mall amenity replacement
- 15th St Streetscape Improvements: All work associated with the 15th St

New signage at the downtown parking garages

Streetscape project from Arapahoe to Canyon to improve pedestrian accessibility as well as streetscape character will be completed. Work included street trees, grates and guards, street furnishings and public art

- Interactive Kiosks-Pearl Street Mall: Pearl Street Mall interactive kiosk in conjunction with Parks and Recreation, Open Space, Library Arts and the Convention and Visitors Bureau was installed for public use. Additional kiosks may also be installed later in the year
- Pedestrian Enhancements at the Boulder Transit Center: Additional funds are allocated for pedestrian improvements as part of the 14th Street transit plaza.

Projects Expected for Completion in 2014:

- CAGID Garage Major Maintenance: The exterior stairs at 1100 Walnut garage will be replaced. Epoxy deck coating at 1400 Walnut, 1100 Spruce and drive lanes at 1000 Walnut garages. Additional interior painting at 1100 Spruce, 1400 Walnut and 1100 Walnut.
- Downtown 14th Street Parking Lots: Repair and replacement of the three parking lots will begin as funds accumulate.
- BJAD-Parking: During 2014, with the completion of the Depot Square Project, BJAD-Parking will begin payments for 100 spaces within the Depot Square Garage.
- Downtown/Pearl Street Mall Improvements and Amenities Replacement: Reserve funds will continue for the replacement of the pop jet fountain, begin mall bollard replacement, and refurbish the pedestrian scale lighting.

Projects Starting in 2014, but not Completed:

Bond Project – West End Streetscape Improvements: All work associated with the West End Streetscape project on Pearl from 11th to 8th will be completed. This work will enhance the pedestrian crossing around 10th Street and the pedestrian corridor. In addition, work will include signage that will help draw people off the Pearl St Mall to the West End, new street trees and irrigation.

Highlights of 2015 – 2019:

- CAGID Garage Major Maintenance: Projects to be covered include: major maintenance of the 1400 Walnut elevator; continued epoxy coatings; structural concrete repairs and interior painting at all garages
- Downtown 14th Street Parking Lots: Continued repair and replacement of the lots as funds accumulate
- Downtown/Pearl Street Mall Improvements and Amenities Replacement: Replace pop jet fountain, continue bollard replacement and replace shade structure awnings.

Relationship to Guiding Principles and Prioritization

CIP Guiding Principles:

All proposed projects in the 2014-2019 CIP are consistent with the applicable guiding principles. DUHMD/PS will be conducting an assessment prior to developing a master plan. All projects have sufficient funds for ongoing maintenance and operations. All projects in the proposed CIP go towards maintaining and improving existing assets.

The Downtown/Pearl Street Mall Improvements/Replacements support the economic sustainability of downtown Boulder by ensuring long term sustainability of our existing infrastructure and investing in the future economic and social vitality of our community center. The CAGID Garage Major Maintenance and Downtown 14th Street Parking Lot Replacement provide essential on-going major maintenance and reinvestment in the five parking facilities and three surface lots.

Prioritization:

The bond projects were all prioritized through the Capital Investment Stakeholder Committee as part of the city investment strategy. All of these projects improve and enhance the pedestrian experience in the downtown area.

DUHMD/PS has the responsibility to maintain all CAGID parking garage assets and the surface parking lots on 14th Street, in order to protect the investment and sustain functionality and safety.

The Downtown/Pearl Street Mall improvements are prioritized by necessary maintenance, replacement and repair of all amenities in the downtown area. Downtown Boulder is the center of the community and an important commercial center, economic generator and tourist attraction.

The Boulder Junction Access District parking garage was adopted through the TVAP plan in addressing the need for managed parking.

Projects Not in Master Plan:

DUHMD/Parking services does not have a master plan. Projects are included in the CIP based on stakeholder interest and necessary maintenance of capital assets.

New Projects

None

Operation and Maintenance Impacts

Garage and Lot maintenance and operations provide essential on-going major maintenance and reinvestment in the five parking facilities and three surface lots. Downtown and Pearl Street mall Improvements and Amenities replacement are intended to maintain all assets in current condition. With the maintenance and operation improvements programs in place, assets will avoid deferred maintenance. There are no additional O&M needs beyond what is included in these CIP programs.

Deferred Projects, Eliminated or Changed Projects

None.

Unfunded Projects and Emerging Needs

Greater University Hill Infrastructure Investments:

As part of the ongoing hill revitalization strategy, high priority infrastructure improvements are proposed that address demonstrated needs within the Hill Community. These include:

- Residential pedestrian scale corridor lighting – up to $5.7 million
- Gateway features between the residential and commercial areas – $500,000
- Pennsylvania Event Street Pilot – $550,000
- Commercial district street tree irrigation system – $520,000
- Commercial district interactive kiosks – $380,000.

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Table 4-1: 2014-2019 Funding Summary By Department

DOWNTOWN AND UNIVERSITY HILL MANAGEMENT DIVISION (DUHMD) / PARKING SERVICES

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Maintenance										
Downtown 14th Street Parking Lot Improvements	$ 285,500	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 150,000	$ 50,000	$ 85,500
Downtown Parking Garage Major Maintenance	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	-	-
Downtown/Pearl St Mall Amenities Replacement	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
Subtotal	$ 535,500	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 400,000	$ 2,400,000	$ 50,000	$ 85,500
Total	**$ 535,500**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 400,000**	**$ 2,400,000**	**$ 50,000**	**$ 85,500**

City of Boulder Captial Improvement Projects, 2014 - 2019

Downtown and University Hill Management Division

Project Name: Downtown 14th Street Parking Lot Improvements

Project at a Glance

Project Type:	Capital Maintenance		
Department:	DUHMD	**Subcommunity:**	Central Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	150
		CEAP Status:	

Project Description

The 14th Street parking lot improvement project is an ongoing project to maintain the 3 surface parking lots on 14th Street between Canyon and Arapahoe. These lots are not owned by CAGID, they are city property, but located within the CAGID boundaries.
The 14th Street lots are near their useful life and need repair and replacement. DUHMD/PS does not have a master plan, but identified the lack of funding to maintain the lots in the 2012 budget cycle. Facilities and Asset Management performed an inspection in 2010 for the three lots. They found that 2 of the lots require replacement due to severity of asphalt fatigue, cracks, potholes and drainage issues in over 20% of the surface. The third lot requires patching and sealing to maintain in good operating condition. Once a lot is newly paved, it will have an estimated life span of 20 years.
The CIP for this project is an annual and ongoing appropriation of $25,000 per year to establish repair and replacement savings. As the funds accumulate, the improvements to the lots will be completed on a rolling basis. Surface replacement of the two lots with the highest severity of issues will be completed first.
A capital improvement amount of approximately $285,500 is needed to complete all necessary asphalt surface repairs and replacement for the three lots. 2014 represents the 3rd year of appropriation toward the repair and improvement plan. Staff will monitor the implementation of the Civic Area Plan to ensure coordination with any redevelopment projects and responsible expenditure of funds.

Relationship to Guiding Principles

- [ ] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [x] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

no public process

Relationship with Other Departments

Parks and Recreation, FAM and DUHMD/PS have all participated in the care and maintenance of the 14th Street lots.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$0
Acquisition	$0
Construction	$285,500
Total Project Cost	**$285,500**

Unfunded Amount

Unfunded Amount

Project Cost Total	$285,500
Funding Total	($200,000)
Total Unfunded	**$85,500**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Downtown Commercial District Fund	$50,000	$25,000	$25,000	$25,000	$25,000	$25,000	$25,000
Total Funding Plan	**$200,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Downtown Commercial District Fund

Additional Annual O&M Description:

Operating costs are currently covered in the Downtown Commercial District fund.

Project Name: Downtown Parking Garage Major Maintenance

Project at a Glance

Project Type:	Capital Maintenance		
Department:	DUHMD	**Subcommunity:**	Central Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	152
		CEAP Status:	

Project Description

Funding for the 4 year, 4.5 million dollar major capital renovation and repair project funding ended in 2011. Starting in 2012, $250,000 per year was allocated as ongoing repairs/renovations to maintain the garages in good standing.
Major maintenance projects include, but, are not limited to; epoxy coating of exposed garage decks (on a 6-8 year replacement schedule, one structure a year), painting (interior and exterior), major elevator repairs, and concrete deterioration . Many of these procedures require significant funding and are part of a rotating maintenance schedule. The intent is to maintain the garages in a manner to avoid or delay significant capital outlay brought on without timely maintenance.

In 2013, repairs were made to Tbeams at 1400 Walnut, spandrel repair completed at 1100 Walnut and ethernet added for variable messaging signage installation. Interior painitng coninues at all garages. In 2014, the exterior stairs at 1100 Walnut and 1400 Walnut will be replaced, deck coating and interior painting.

This project is for an ongoing funding program. All $250,00 will be spent on rotating projects at the 5 garages each year.

Relationship to Guiding Principles

- [ ] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

no public process

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	**$250,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$250,000
Funding Total	
Total Unfunded	

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Downtown Commercial District Fund		$250,000	$250,000	$250,000	$250,000	$250,000	$250,000
Total Funding Plan							

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Downtown Commercial District Fund

Additional Annual O&M Description:

Operating costs are covered in the Downtown Commercial District Fund

Project Name: Downtown/Pearl St Mall Amenities Replacement

Project at a Glance

Project Type:	Capital Maintenance		
Department:	DUHMD	**Subcommunity:**	Central Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	151
		CEAP Status:	

Project Description

Until 2012, there was no capital replacement or future improvements plan or funding source identified for the Pearl Street Mall and downtown streetscape improvements. The Downtown/Pearl St Mall Amenities replacement plan consists of two components: 1) capital replacement budget for the existing amenities on the Pearl Street Mall (pop jet fountain, shade structure, kiosks, play areas, etc.) and existing streetscape elements within the downtown area (benches, trash receptacles, bike racks, etc.) and 2) replacement of future streetscape improvements in sub areas of the downtown.

This project is for an ongoing funding program. DUHMD/PS worked with the Parks Mall staff and FAM to develop a replacement schedule. The replacement funds are designated as amenities age and need replacement or repairs.

In 2014-2019, in addition to accumulating funds for amenities replacement, other projects will be identified as needed.

Relationship to Guiding Principles

- [ ] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [x] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

A Downtown Improvement Plan Task Force prioritized and identified improvements. Staff on the task force represent Parks and Recreation, Planning, Transportation, DUHMD/PS and Facilities Asset Management. Also included are representatives from the downtown boards and organizations: Downtown Management Division, Downtown Boulder Inc. and Downtown Boulder Business Improvement District. Additional stakeholders will be added as the project evolves. The primary foci of the task force has been twofold. First, working with Parks, GIS and FAM staff to create an inventory of existing amenity and streetscape improvements on the Pearl Street Mall and the downtown. This provides the detailed budget necessary to ensure that capital replacement funds are in place for these existing investments. The second component has been the recommendation for areas for future streetscape and infrastructure improvements.

FAM prepared a detailed replacement schedule spanning 10 years.

Relationship with Other Departments

DUHMD/PS staff is working with staff from FAM, Transportation, and Parks and Recreation to coordinate the downtown capital amenities replacement plan.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	**$0**

Unfunded Amount

Unfunded Amount

Project Cost Total	$0
Funding Total	
Total Unfunded	

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Downtown Commercial District Fund		$125,000	$125,000	$125,000	$125,000	$125,000	$125,000
Total Funding Plan							

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Downtown Commercial District Fund

Additional Annual O&M Description:

Operating costs are covered in the Downtown Commercial District Fund and the Parks and Recreation Fund.

Funding Overview

The Facilities and Asset Management (FAM) CIP is supported by the following funds.

Capital Development Fund:

The Capital Development Fund accounts for development fees to be utilized for the construction of capital improvements related to new development and growth. Funding for the Capital Development Fund is provided through the development excise tax (DET) and impact fees.

In 1987, the DET was instituted to fund capital improvements related to growth and is paid by new commercial and residential development. Beginning in 2010, excise taxes previously collected for new construction for Fire, Housing and Human Services, Library, Police and Municipal Facilities ceased and were replaced with impact fees. In addition, Parks and Recreation was added to the list of departments collecting impact fees.

Table 5-1: Capital Development Fund Balance – 2012 Year-End

Account	DET Balance	Impact Fee Balance
Library	$2,018,685	$123,656
Municipal Facilities	$1,821,015	$89,941
HHS	$738,620	$46,902
Police Department	$776,960	$96,397
Fire Department	$21,226	$112,645
Parks and Recreation	N/A	$460,498
Total	**$5,376,506**	**$930,040**

Facility Renovation & Replacement Fund:

The Facility Renovation & Replacement Fund (FR&R) accounts for major maintenance (projects >$3,000), renovation and replacement projects for FAM maintained buildings, structures and property. The majority of FR&R funding is received as a transfer from the General Fund (GF) and is used to fund projects for FAM maintained buildings and structures. The FR&R fund also receives funding from restricted and enterprise funds for specific departmental projects including remediation work. The FR&R fund is an internal service fund managed by FAM.

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects managed by FAM. CIB funding is indicated by the following symbol:

Accomplishments and Highlights

Projects to be Completed in 2013:

- Roofing Replacement Projects: Completed major roofing projects at East Boulder Community Center and the Public Safety Building
- HVAC Systems: Completed HVAC additions in all fire station bays to improve indoor air quality
- New Britain Third Floor : Completed building efficiency renovations deferred since 2009
- Carnegie Library: Completed exterior repairs which were primarily funded with State Historic funds
- Harbeck House*:* Replace roof and gutter system
- Municipal Building: Rebuild flood gates
- Municipal Building: Completed improvements to the Council Chambers, Council offices, two conference rooms and the main lobby
- Valmont Butte Voluntary Clean-Up Program (VCUP): Completed VCUP per agreement with Colorado Department of Public Health and Environment (CDPHE)
- 13th Street Plaza: Completed site investigations of the former coal gasification plant and initiated VCUP agreements with CDPHE
- Phase 3 Energy Performance Contract: Completed the installation of solar photovoltaic systems at the Municipal Service Center, Fleet Services, OSMP annexes and The Dairy Center for the Arts, and lighting upgrades at the Teahouse and BMOCA

Valmont Butte Mill Site after the completion of the Voluntary Clean-up Program

- Smart Electric Vehicle Charging Systems: Completed the installation of charging systems at various city facilities such as the North and East Recreation Centers
- South Boulder Recreation Center: Replaced gymnasium, racquetball and Pilates room floors
- Parking lots: Repaired asphalt parking lots throughout city
- Wildland Fire Facility: Designed Wildland Fire Facility project
- Main Library Renovation: Designed Main Library renovation project
- Renewable Energy Analyses: Performed assessments to evaluate renewable energy sources such as small scale wind, geothermal, biomass, and thermal storage systems on city properties

- Civic Center Plan and Municipal Space Study: Office space needs in the downtown area identified in support of the Civic Area Plan.

Projects Expected for Completion in 2014:

- Scott Carpenter Pool: Renovate locker rooms and add heating.
- Downtown Campus Facilities: Provide access improvements.

Projects Starting in 2014, but Not Completed:

- New Wildland Fire Facility: Build new Wildland Fire Facility to provide for year-round wildland fire fighting capability
- Main Library Renovation Project: Renovate Main Library children and teen areas and perform infrastructure repairs for electrical, carpeting and windows.

Highlights of 2015-2019 Projects:

- Flood Improvements: Enhance flood protection around the Main Library, New Britain and Park Central as a result of flood and structural assessments based on the 2012 updated Boulder Creek Study and the 2013 Civic Area Plan
- Outdoor Lighting Compliance Improvements: Replace outdoor fixtures with LED products to meet the city's outdoor lighting regulations
- East Boulder Community Center: Replace pool air handlers that are beyond their useful life
- North Boulder Recreation Center: Replace solar thermal system that is beyond repair
- Main Library North Plaza: Reconstruct deteriorated concrete surfaces
- Mapleton Ballfield: Renovate concessions and restrooms, upgrade electrical, lighting and HVAC systems, and renew protective coatings
- Martin Park and North Boulder Park, Park Shelter Repairs: Upgrade electrical, plumbing and renew protective coatings
- Stazio Ballfields: Renovate restrooms and concessions, replace tensile canopy covering, upgrade electrical, plumbing and HVAC systems, replace roof, renew protective coatings and provide for ADA compliance
- Fleet Services: Replace carwash roof and emergency generator
- Tantra Shop Renovation: Renovate and repair Park Operations maintenance shop
- West Senior Center Major Maintenance and Rehabilitation: Upgrade electrical, HVAC, and plumbing systems, add a fire suppression system, replace roof as required, and provide for ADA compliance
- FlatIrons Event Center Major Repairs: Repair HVAC, roof and structure
  Miscellaneous Facility Maintenance Projects: A collection of major maintenance projects under $50,000 programmed annually, such as roof evaluations, pavement repairs, HVAC upgrades and exterior protective coatings.

Relationship to Guiding Principles and Prioritization

CIP Guiding Principles:

The proposed 2014 – 2019 CIP is consistent with the CIP Guiding Principles as follows:

- All projects (except those noted below) are consistent with council accepted master plans; FAM's Master Plan was last adopted in 2005 and is currently under review
- Capital improvements are designed to achieve community sustainability goals
- Funds to operate and maintain projects have been identified
- Adequate financial capacity and flexibility is available to respond to emerging, unanticipated needs
- Projects sustain or improve maintenance of existing assets before investing in new assets
- Projects have been identified to meet legal mandates, improve public safety and reduce annual operating costs and improve efficiency
- Projects have been coordinated with other departments
- Funds supporting FAM's CIP provides sufficient reserves to allow the ability to address emergencies and natural disaster.

As projects are developed, improvements may also require building code updates, safety and security enhancements and added efficiencies to reduce energy consumption and operating costs.

Prioritization:

In accordance to the FAM Master Plan and under current fiscally constrained funding, essential facilities are maintained to industry standards and remaining facilities at standards commensurate with available funding. Energy efficiency projects, such as the work accomplished through the Energy Performance Contracts, are funded, if budget neutral or if there is less than a three year simple payback.

In addition, FAM prioritizes its projects based on the type of facility and type of work as shown below.

Table 5-2: FAM Priority Codes

Priority Code	Type of Facility	Type of Work
1	Essential[1]	Essential[2]
2	Non-Essential	Essential
3	Essential	Desirable
4	Non-Essential	Desirable[3]
5	Essential or Non-Essential	Discretionary[4]
6	Essential or Non-Essential	Deferred

[1]Essential Facility: A facility necessary to sustain the most basic core of city services such as public health and safety and/or compliance with federal or state laws particularly during an emergency event. 26 facilities are identified as "essential" in the City of Boulder such as the Municipal Building, Park Central, New Britain, Public Safety Building, Municipal Service Center, Fleet Services, Fire Stations, North Boulder Recreation Center and East Boulder Community Center.

[2]Essential Work: Work that is performed for life, health, and safety-related situations. Also includes work that is needed so that a city service can be provided.

[3]Desirable Work: Work that does not meet the essential or discretionary definition.

[4]Discretionary Work: Work that is not required but would be defined as "nice-to-have."

The following are examples of priority code projects:

- Priority 1: repair emergency generator at the Public Service Building
- Priority 2: repair emergency lighting at South Boulder Recreation Center
- Priority 3: replace lighting at Park Central
- Priority 4: replace lighting at Meadows Library
- Priority 5: paint walls at New Britain after 10 years
- Priority 6: replace carpet in staff spaces after 7 years

Projects Not in Master Plans:

- Fleet Services: The Fleet Strategic Plan is under development for 2013/2014
- Parks and Recreation: The FlatIrons Event Center Repairs and the Tantra Shop Renovation will be prioritized with other projects based upon the Parks and Recreation Master Plan and associated area development plans
- West Senior Major Maintenance and Renovation Project: Human Services is updating its master plan in 2013. That work and the Civic Center Plan may alter the scope of this project.

New Projects

- Flood Improvements: Enhance flood protection around the Main Library, New Britain and Park Central as a result of flood and structural assessments based on the 2012 updated Boulder Creek Study and the 2013 Civic Area Plan
- East Boulder Community Center: Replace pool air handlers that are beyond their useful life
- North Boulder Recreation Center: Replace solar thermal system that is beyond repair.

Deferred Projects, Eliminated or Changed Projects

- Scott Carpenter Pool, Renovate Locker Rooms: Delayed until 2014 due to possible changes to Parks and Recreation Master Plan
- East Boulder Community Center Renovation: Eliminated contributions from 2014 to 2017 – $900,000 total
- Main Library Reconstruct North Plaza: Reduced from $147,000 to $80,000
- Outdoor Lighting Compliance: Added $100,000
- Stazio Projects: Moved from 2014 to 2016
- Martin Park Shelter Major Maintenance: Moved from 2016 to 2017
- North Boulder Park Shelter Repair: Moved from 2016 to 2017
- FlatIrons Event Center Major Repairs: Moved from 2017 to 2018
- Tantra Shop Renovation: Moved from 2018 to 2019
- West Senior Center Major Maintenance and Repair: Moved from 2016 to 2019.

Unfunded Projects and Emerging Needs

- Additional ADA assessments, Accommodations and Indoor Hazards Mitigation: Only partially funded; facility assessments are indicating deficiencies in all facilities
- Parking Lot Repairs: Only partially funded with full replacement funding needed for the Municipal Service Center and Public Safety Building
- Main Library: Augment the existing 1992 wing evaporative cooling system due to insufficient cooling capacity on hotter and more humid summer days
- Energy Efficiencies and Renewables: To achieve the city's new sustainability and greenhouse gas emission reduction goals, deeper energy efficiency projects and additional renewables may be required for city facilities and operations.

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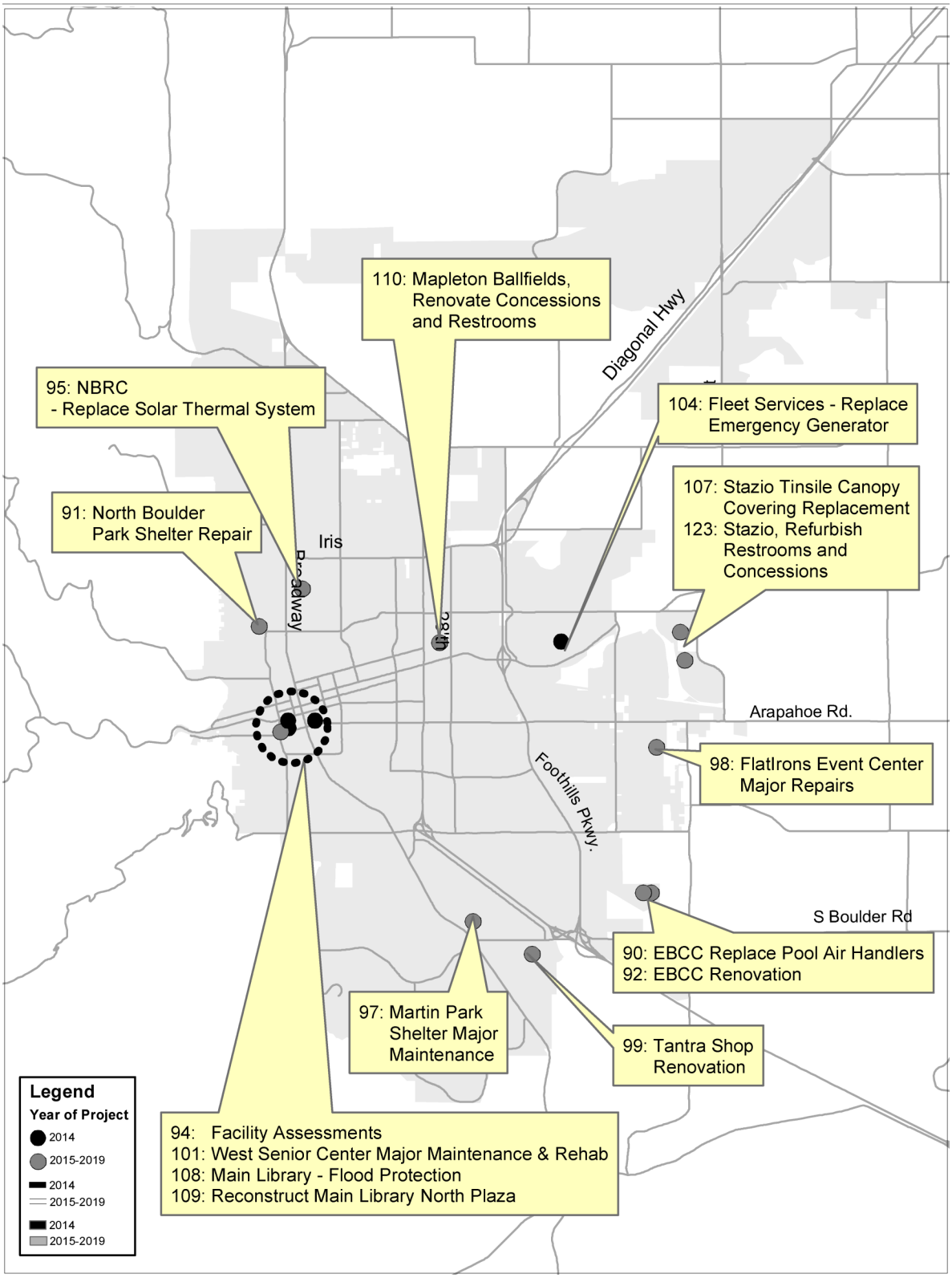
Table 5-3: 2014-2019 Funding Summary By Department

PUBLIC WORKS - FACILITIES AND ASSET MANAGEMENT (FAM) / FLEET

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Main Library - Flood Protection	$ 400,000	$ 400,000	$ -	$ -	$ -	$ -	$ -	$ 400,000	$ -	$ -
North Boulder Recreation Center - Replace Solar Thermal System	350,000	-	350,000	-	-	-	-	350,000	-	-
Outdoor Lighting Compliance Improvements	200,000	-	150,000	50,000	-	-	-	200,000	-	-
Stazio Refurbish Restrooms and Concessions	160,000	-	160,000	-	-	-	-	160,000	-	-
East Boulder Community Center Renovation	1,100,000	-	-	-	-	100,000	100,000	200,000	-	900,000
Tantra Shop Renovation	300,000	-	-	-	-	-	300,000	300,000	-	-
West Senior Center Major Maintenance & Rehab	700,000	-	-	-	-	-	700,000	700,000	-	-
Subtotal	$ 3,210,000	$ 400,000	$ 660,000	$ 50,000	$ -	$ 100,000	$ 1,100,000	$ 2,310,000	$ -	$ 900,000
Capital Maintenance										
Fleet Services, Rpl Emergency Generator +	$ 400,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ 100,000	$ -
Main Library Reconstruct North Plaza	147,000	147,000	-	-	-	-	-	147,000	-	-
Miscellaneous Facility DET Projects	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	50,000	-
Miscellaneous Facility Maintenance Projects	2,495,000	340,000	370,000	415,000	380,000	400,000	400,000	2,305,000	190,000	-
Mapleton Ballfields, Renovate Concessions and Restrooms +	100,000	-	100,000	-	-	-	-	100,000	-	-
East Boulder Community Center - Replace Pool Air Handlers	500,000	-	-	500,000	-	-	-	500,000	-	-
Replaster Pools +	80,000	-	-	80,000	-	-	-	80,000	-	-
Stazio Tensile Canopy Covering Replacement	132,000	-	-	132,000	-	-	-	132,000	-	-
Martin Park Shelter Major Maintenance	169,000	-	-	-	169,000	-	-	169,000	-	-
North Boulder Park Shelter Repair	120,000	-	-	-	120,000	-	-	120,000	-	-
FlatIrons Event Center Major Repairs	600,000	-	-	-	-	-	600,000	600,000	-	-
Subtotal	$ 4,743,000	$ 587,000	$ 570,000	$ 1,227,000	$ 769,000	$ 500,000	$ 1,100,000	$ 4,753,000	$ 340,000	$ -
Capital Planning Studies										
Facility Assessments	$ 300,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Subtotal	$ 300,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Total	**$ 8,253,000**	**$ 1,037,000**	**$ 1,280,000**	**$ 1,327,000**	**$ 819,000**	**$ 650,000**	**$ 2,250,000**	**$ 7,363,000**	**$ 340,000**	**$ 900,000**

City of Boulder Captial Improvement Projects, 2014 - 2019

PW/Facilities and Asset Management



Project Name: East Boulder Community Center - Replace Pool Air Handlers

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	East Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	90
		CEAP Status:	

Project Description

Replace existing pool air handlers that were installed in 1990, are inefficient, and beyond their useful life.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

None - permits will be applied for.

Relationship with Other Departments

FAM will continue to coordinate with Parks and Recreation in the annual prioritization of HVAC replacement projects and scheduling of facility maintenance during annual shutdowns to minimize disruption to the customers.

Change from Past CIP

New addition

Estimated Total Cost

Project Cost

Planning	$50,000
Acquisition	
Construction	$450,000
Total Project Cost	**$500,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$500,000
Funding Total	($500,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$0	$500,000	$0	$0	$0
Total Funding Plan	**$500,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $2,000 **Funding Source:** From FAM 118 O&M funding.

Additional Annual O&M Description:

For annual system maintenance

Project Name: East Boulder Community Center Renovation

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	East Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	92
		CEAP Status:	

Project Description

Both the North Boulder Recreation Center and the South Boulder Recreation Center have had major renovations approximately every 20 years to accommodate new and changed programs and also ensure building code updates to the city's highest use facilities. This project will accomplish the same at East Boulder Community Center since it's construction in 1991.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

This project will tie into the Parks and Recreation Master Plan Update being accomplished 2013.

Relationship with Other Departments

FAM will continue to coordinate with Parks and Recreation and Human Services in indentifying future renovation and replacement needs for the East Boulder Community Center along with working with Parks and Recreation on facility and program expansion needs that will be funded outside of FAM's FR&R account.

Change from Past CIP

Elminated contributions from 2013 to 2017 due to higher priority projects

Estimated Total Cost

Project Cost

Planning	$110,000
Acquisition	
Construction	$990,000
Total Project Cost	**$1,100,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,100,000
Funding Total	($200,000)
Total Unfunded	**$900,000**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0					$100,000	$100,000
Total Funding Plan	**$200,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: Facility Assessments

Project at a Glance

Project Type:	Capital Planning Studies		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	94
		CEAP Status:	

Project Description

Funding is for study and analysis. Perform visual inspections and sampling of materials in city facilities to have an inventory of any asbestos, lead based paint, and other indoor air quality concerns. Identify code and safety deficiencies in existing facilities. The inventory will provide awareness for building occupants, maintenance staff, construction personnel, and emergency responders so as not to disturb the hazard. An inventory will also identify remediation projects, as needed. Expect a multi-year program to complete the 130-plus buildings managed by FAM and repeat the process.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

None.

Relationship with Other Departments

FAM will coordinate with other departments in performing the inventory of the facilities and any subsequent remediation requirements so disruption to occupants and customers is minimized.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$300,000
Acquisition	$0
Construction	$0
Total Project Cost	**$300,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$300,000
Funding Total	($300,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$50,000	$50,000	$50,000	$50,000	$50,000	$50,000
Total Funding Plan	**$300,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

No additional O&M anticipated with this assessment.

Project Name: FlatIrons Event Center Major Repairs

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	East Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	98
		CEAP Status:	

Project Description

Repair roof, replace HVAC systems and replace windows at the FlatIrons Event Center. These systems are long overdue for replacement in this facility originally constructed in 1948. The roof has been patched several times and is beyond its predicted life for its patching. Roofs leaks in 2008 required major mold remediation. No upgrades and energy efficiencies have been accomplished in this faciity, awaiting on the future status of the FlatIrons Event Center.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Parks and Recreation Department is updating the Parks and Recreation Master Plan in 2013 which will assist in determining the future of the Event Center.

Relationship with Other Departments

FAM will continue to coordinate with Parks and Recreation in the annual prioritization of facility needs and the future role of the FlatIrons Event Center as further identified the in the Master Plan update.

Change from Past CIP

Moved from 2017

Estimated Total Cost

Project Cost

Planning	$60,000
Acquisition	
Construction	$540,000
Total Project Cost	**$600,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$600,000
Funding Total	($600,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$0	$0	$0	$0	$600,000
Total Funding Plan	**$600,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: Fleet Services, Rpl Emergency Generator +

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	East Boulder
Project Number:	501XXX	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	104
		CEAP Status:	

Project Description

Replace existing emergency back-up generator that has reached its life expectancy and is undersized with a new generator sized to accommodate the full load for fleet services. Since Fleet Services is required to support critical emergency services such for Police, Fire, Transportation and Utilities, the growing electrical needs over the past 20 years have outgrown the original generator.

This project will begin when funds are collected to start the replacement, expected construction start is 2018. Since Fleet Services is an internal service, FR&R contributions from fleet are required to fund this replacement.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

None. Project design will be reviewed during the normal permitting process.

Relationship with Other Departments

This project will be coordinated within the Public Works Department / Fleet Services to identify generator needs, costs, and any future technology and energy efficiency projects that may reduce generator needs and costs.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$5,000
Acquisition	$350,000
Construction	$45,000
Total Project Cost	**$400,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$400,000
Funding Total	($400,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$100,000	$50,000	$50,000	$50,000	$50,000	$50,000	$50,000
Total Funding Plan	**$400,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** * Fleet Services Major Maintenance

Additional Annual O&M Description:

No additional operational costs will result from completing this project.

Project Name: Main Library - Flood Protection

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	Central Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	108
		CEAP Status:	

Project Description

Based on a 2013 Flood and Structural assessment of the Main Library, additional flood proofing is required to protect the facility from a 100-year flood event. In the north portion, an 8" thick concrete flood wall would need to be constructed to above the flood protection elevation around the two courtyard areas at the east end of the building where there is presently a concrete lattice and flood doors. In the center and bridge section, mechanical cores should be protected and doors enhanced. In the south portion, there is a storefront system at the south end and one at the east end, as well as the entrance vestibule, which would need to be protected by a flood wall. In addition to the flood wall at the entrance vestibule, a flood gate would need to be installed similar to the gate at the North Wing.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [ ] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Flood protection requirements will be coordinated with the Main Library Renovation project funded by the Capital Investment Strategy bonds.

Relationship with Other Departments

This project will be coordinated with the Library and Arts Department, Utilities Flood Division and the Library Commission as the design progresses and interfaces with the bond-funded Main Library Renovation and the Civic Area catalytic projects.

Change from Past CIP

New project

Estimated Total Cost

Project Cost

Planning	$40,000
Acquisition	
Construction	$360,000
Total Project Cost	**$400,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$400,000
Funding Total	($400,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$400,000	$0	$0	$0	$0	$0
Total Funding Plan	**$400,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: Main Library Reconstruct North Plaza

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	Central Boulder
Project Number:	501XXX	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	109
		CEAP Status:	

Project Description

The Main Library Plaza, located at 1000 Canyon, will require replacement due to its age and condition to repair cracked and heaving pavements and prevent tripping hazards. This project will tie into a catalytic project for the Civic Area Plan for an outdoor seating area and also to the Library café project, both planned in 2014.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [ ] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Project design will be reviewed by the Planning Department, Parks and Recreation and Library in relationship to catalytic projects associated with the Civic Area Plan. Further design reviews will be conducted by the Board and Commissions as appropriate.

Relationship with Other Departments

This project will be coordinated with the Library and Arts Department, Utilities Flood Division and the Library Commission as the design progresses and interfaces with the bond-funded Main Library Renovation, flood improvements to the Main Library and other Civic Area catalytic projects.

Change from Past CIP

Moved from 2016 to 2014 to time with catalytic projects with the Civic Area Plan

Estimated Total Cost

Project Cost

Planning	$14,000
Acquisition	
Construction	$133,000
Total Project Cost	**$147,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$147,000
Funding Total	($147,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$147,000	$0	$0	$0	$0	$0
Total Funding Plan	**$147,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

No additional operational costs are anticipated from completing this project.

Project Name: Mapleton Ballfields, Renovate Concessions and Restrooms +

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	Central Boulder
Project Number:	501XXX	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	110
		CEAP Status:	

Project Description

This project upgrades electrical, lighting and HVAC systems to current building codes, upgrades plumbing system and fixtures for water conservation, and renews interior and exterior surface finishes.

+ Funding from other than General Fund FR&R:
Fund 118 - Parks & Rec Major Maintenance, managed by FAM

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [ ] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

None. Project design will be reviewed during the normal permitting process.

Relationship with Other Departments

FAM will continue to coordinate with Parks and Recreation in indentifying future renovation and replacement needs for the Mapleton Ballfields along with working with Parks and Recreation on facility and program expansion needs that will be funded outside of FAM's FR&R account.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$10,000
Acquisition	
Construction	$90,000
Total Project Cost	**$100,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$100,000
Funding Total	($100,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$100,000	$0	$0	$0	$0
Total Funding Plan	**$100,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

No additional operational costs will result from completing this project.

Project Name: Martin Park Shelter Major Maintenance

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	South Boulder
Project Number:	501XXX	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	97
		CEAP Status:	

Project Description

This project upgrades the plumbing systems and fixtures and renews interior and exterior surface finishes of this facility constructed in 1962. Minor cosmetic work totaling $16,000 was last done in 2007. Code upgrades for the electrical systems will also be accomplished as required with any major renovation project.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

None. Project design will be reviewed during the normal permitting process.

Relationship with Other Departments

This project will be coordinated with the Parks & Recreation Department. The P&R Round 1, Capital Investment Strategy project improves the shelter's exterior to include ADA access to the shelters, lighting upgrades, amenities (benches/tables), bear proof trash/recycling receptacles and concrete flatwork. FR&R funding not available currently to accomplish with 2013/2014 CIS project.

Change from Past CIP

Moved from 2016.

Estimated Total Cost

Project Cost

Planning	$16,000
Acquisition	
Construction	$153,000
Total Project Cost	**$169,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$169,000
Funding Total	($169,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$0	$0	$169,000	$0	$0
Total Funding Plan	**$169,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

Project Name: Miscellaneous Facility DET Projects

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	System-wide
Project Number:	511702	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

City's participation in accomplishing small projects and advance project planning, less than $50,000 each, that are done in conjunction with other new construction or expansion projects related to growth. Previous projects include: Valmont Butte engineering and environmental studies, Children, Youth and Family Services Addition, and Outfitting the University Hill Police Annex.

For discrete, on-going projects as they are identified during the funding year.

Relationship to Guiding Principles

- ☐ Consistent with Master Plans
- ☐ Achieves Community Sustainability Goals
- ☐ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☐ Provide capacity and flexibility in long term planning to respond to needs
- ☐ Sustain or improve existing assets
- ☐ Maximizes efficiency
- ☐ Provides sufficient reserves
- ☐ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Any public process will be identified in conjunction with the overall project development. Project design will be reviewed by the Planning Department. Further design reviews will be conducted by the Landmarks Board, Design Advisory Board, and/or Planning Board as appropriate.

Relationship with Other Departments

This project will be coordinated with the affected departments.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	**$0**

Unfunded Amount

Unfunded Amount

Project Cost Total	$0
Funding Total	($350,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Capital Development Fund	$50,000	$50,000	$50,000	$50,000	$50,000	$50,000	$50,000
Total Funding Plan	**$350,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

No additional operational costs will result from completing these projects.

Project Name: Miscellaneous Facility Maintenance Projects

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	System-wide
Project Number:	501452	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

This project addresses funding for on-going building replacement and miscellaneous projects costing less than $50,000 each. Facility replacement and projects costing $50,000 or more are individually listed in the CIP. Facility maintenance projects costing less than $50,000 will be managed by the Facilities & Fleet Manager. Typical projects over the past 2 years have included roof evaluations, backflow prevention, parking lot repairs, sidewalk repairs, stair repairs, structural inspections, HVAC upgrades, and exterior masonry repairs and protective coatings.

This project is for an ongoing funding program.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Any project associated with these funds will be taken through the appropriate public process and CEAP review as part of the conceptual design if needed. Project design will be reviewed by the Planning Department. Further design reviews will be conducted by the Boards and Commissions as appropriate.

Relationship with Other Departments

This project will be coordinated with the affected departments to reduce occupant and customer impacts.

Change from Past CIP

Added amount for 2019

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	**$2,495,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$2,495,000
Funding Total	($2,495,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$190,000	$340,000	$370,000	$415,000	$380,000	$400,000	$400,000
Total Funding Plan	**$2,495,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

No additional operational costs will result from completing these repair projects.

Project Name: North Boulder Park Shelter Repair

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	Central Boulder
Project Number:	501XXX	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	91
		CEAP Status:	

Project Description

This project upgrades the plumbing systems and fixtures, and renews interior and exterior surface finishes of this facility built in 1969. Minor cosmetic work totaling $19,000 was last done in 2007. Electrical code upgrades will also be accomplished as required with major renovation projects.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [ ] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

None. Project design will be reviewed during the normal permitting process.

Relationship with Other Departments

This project will be coordinated with the Parks & Recreation Department. The P&R Round 1, Capital Investment Strategy project improves the shelter's exterior to include ADA access to the shelters, lighting upgrades, amenities (benches/tables), bear proof trash/recycling receptacles and concrete flatwork. FR&R funding not available to time with CIS project.

Change from Past CIP

Moved from 2016

Estimated Total Cost

Project Cost

Planning	$12,000
Acquisition	
Construction	$108,000
Total Project Cost	**$120,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$120,000
Funding Total	($120,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$0	$0	$120,000	$0	$0
Total Funding Plan	**$120,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

No additional operating costs are anticipated.

Project Name: North Boulder Recreation Center - Replace Solar Thermal System

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	North Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	95
		CEAP Status:	

Project Description

In 2002, the North Boulder Recreation Center installed the largest solar thermal pool heating system in the nation, which helped it achieved its LEED Silver status. Overtime, the leading edge technology has had numerous leaks due to improperly designed fittings that can no longer be repaired without significant costs. The system is not currently operating. This project will replace the existing system with a more modern system that does not have the problems that the early systems have.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

None - permit will be submitted for approval.

Relationship with Other Departments

FAM will continue to coordinate with Parks and Recreation in coordinating the replacement of this system so as to minimize impacts to customers.

Change from Past CIP

New Project

Estimated Total Cost

Project Cost

Planning	$30,000
Acquisition	
Construction	$320,000
Total Project Cost	**$350,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$350,000
Funding Total	($350,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$350,000	$0	$0	$0	$0
Total Funding Plan	**$350,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $5,000 **Funding Source:** FAM 118 O&M funding

Additional Annual O&M Description:

For glycol and occassional solar thermal tube replacements.

Project Name: Outdoor Lighting Compliance Improvements

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	System-wide
Project Number:	501XXX	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

Replace outdoor lighting fixtures to comply with Boulder Revised Code 9-9-16, Outdoor Lighting ordinance. Lights must conform not later than 15 years after July 15, 2003. Projects will occur as lighting technologies, such as light emitting diodes, LEDs, become more advanced and less costly. This project is only for outdoor lighting under FAM's responsibility. Other departments, such as Parks and Recreation, are programming separate lighting projects.

In 2015, $150,000 will be spent on half of the lights not yet in compliance. In 2016, anticipate the $50,000 amount to be spent on remaining lights. This could impact all 130 facilities managed by FAM. No inventory of non-conforming lights has been completed yet.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [ ] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Any project associated with these funds will be taken through the appropriate public process and reviewed as part of the conceptual design, if needed.

Relationship with Other Departments

Work will be coordinated with affected departments in fixture selection and ensuring outdoor lighing compliance of selected fixtures.

Change from Past CIP

Added additional $100,000.

Estimated Total Cost

Project Cost

Planning	$10,000
Acquisition	
Construction	$190,000
Total Project Cost	**$200,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$200,000
Funding Total	($200,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$150,000	$50,000	$0	$0	$0
Total Funding Plan	**$200,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: ($10,000) **Funding Source:** Various department energy funds.

Additional Annual O&M Description:

Estimated annual energy savings by replacing with more energy efficent lighting.

Project Name: Replaster Pools +

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	East Boulder
Project Number:	501XXX	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

Replaster one of the recreational pools which will be determined at a future date. This 2016 project follows Parks and Recreation replastering pool projects in 2013, 2014 and 2015.

+ Funding from other than General Fund FR&R:
Fund 118, Major Maintenance, P&R-managed by FAM

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

This project location will be dependent on decision yet to be made on the Aquatics Facility Study and the Parks and Recreation pool replaster projects.

Relationship with Other Departments

This project will be coordinated with Parks and Recreation following other re-plaster work they will be funding in 2014 and 2015.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$1,000
Acquisition	
Construction	$79,000
Total Project Cost	**$80,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$80,000
Funding Total	($80,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$0	$80,000	$0	$0	$0
Total Funding Plan	**$80,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

No additional operational costs will result from completing this project.

Project Name: Stazio Refurbish Restrooms and Concessions

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	East Boulder
Project Number:	501XXX	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	123
		CEAP Status:	

Project Description

This project upgrades electrical and HVAC systems to current building codes, upgrades plumbing systems and fixtures, and renews interior and exterior surface finishes.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [ ] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

None. Project design will be reviewed during the normal permitting process.

Relationship with Other Departments

This project has been moved to 2015 to be coordinated with the Parks & Recreation Department's 2015 ADA project.

Change from Past CIP

Moved from 2014

Estimated Total Cost

Project Cost

Planning	$16,000
Acquisition	
Construction	$144,000
Total Project Cost	**$160,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$160,000
Funding Total	($160,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$160,000	$0	$0	$0	$0
Total Funding Plan	**$160,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

Project Name: Stazio Tensile Canopy Covering Replacement

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	East Boulder
Project Number:	501XXX	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	107
		CEAP Status:	

Project Description

The Stazio Tensile Canopy was inspected in 2003 by the contractor that originally installed the structure. All cables, structural components and coverings were inspected and found to be sound and fully functional. Preventive maintenance was performed on the structure. The contractor noted in their report that the covering is nearing the end of its service life and should be replaced in approximately five years (2008). The contractor prepared a cost estimate for replacement of the covering. This project was originally scheduled for 2009; the delay to 2016 is allowable by accomplishing minor repairs in 2010 versus complete replacement.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [ ] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

None. Project design will be reviewed during the normal permitting process.

Relationship with Other Departments

FAM will continue to coordinate with Parks and Recreation in assessing the tensile canopy annually to continue to lengthen its service life.

Change from Past CIP

Moved from 2014

Estimated Total Cost

Project Cost

Planning	$6,000
Acquisition	
Construction	$126,000
Total Project Cost	**$132,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$132,000
Funding Total	($132,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$0	$132,000	$0	$0	$0
Total Funding Plan	**$132,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

No additional operational costs are anticipated from completing this project.

Project Name: Tantra Shop Renovation

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	South Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	99
		CEAP Status:	

Project Description

Renovate the Tantra Park Shop for continuing use for Park Operations maintenance staff. This 3,000 square foot facility, constructed in 1984, needs repairs and renovations to major building systems. At this time, no specific scope has been identified for this project planned in 2019.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [ ] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Future of Tantra property will be part of Parks and Recreation Master Plan update in 2013.

Relationship with Other Departments

FAM will continue to coordinate with Parks and Recreation in indentifying future renovation and replacement needs for the Tantra Park Shop.

Change from Past CIP

Moved from 2018

Estimated Total Cost

Project Cost

Planning	$30,000
Acquisition	
Construction	$270,000
Total Project Cost	**$300,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$300,000
Funding Total	($300,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$0	$0	$0	$0	$300,000
Total Funding Plan	**$300,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: West Senior Center Major Maintenance & Rehab

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Facilities & Asset Management	**Subcommunity:**	Central Boulder
Project Number:	501XXX	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	101
		CEAP Status:	

Project Description

This project provides refurbishment and replacement of the facilities including HVAC, electrical, and plumbing systems. It renews all surface finishes including carpet, paint, and ceilings. Provides improvements to restrooms and adds a fire sprinkler system, which is currently lacking, to the entire facility as required by B.R.C. 10-8, Fire Prevention Code. Provides for requirements under the new 2010 ADA standards. Replaces 1995 roof sections as required.

This project is scheduled for 2019, but may change depending on the outcomes of the Civic Area Plan and the Human Services Department master plan update in 2013.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Project design will be reviewed during the normal permitting process and the master plans portions affecting this project will be approved by City Council.

Relationship with Other Departments

This project will be coordinated with HHS Department and Meals on Wheels. The kitchen was remodeled in 2006 by Meals on Wheels at a cost of approximately $400,000. This cost has been subtracted from the estimated refurbishment cost noted in the FAM Master Plan of $1,228,000, leaving an estimated cost of $828,000. Additional work is being accomplished in the Energy Performance Contracts.

Change from Past CIP

Moved from 2016.

Estimated Total Cost

Project Cost

Planning	$70,000
Acquisition	
Construction	$630,000
Total Project Cost	**$700,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$700,000
Funding Total	($700,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Facility Renovation & Replacement Fund	$0	$0	$0	$0	$0	$0	$700,000
Total Funding Plan	**$700,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

City of Boulder

GREENWAYS

2014-2019 Capital Improvement Program

Program Overview

The city of Boulder Greenways System is comprised of a series of corridors along riparian areas including Boulder Creek and its 14 tributaries, which provide an opportunity to integrate multiple objectives, including habitat protection, water quality enhancement, storm drainage and floodplain management, alternative transportation routes for pedestrians and bicyclists, and recreation and cultural resources. In order to maximize the overlap of objectives and to coordinate projects along the Greenways, identification of projects for the 2014-2019 Greenways Capital Improvement Program was done as a team effort, combining input from Flood Utilities, Transportation, Parks and Recreation, Water Quality and Environmental Services, Planning and Open Space and Mountain Parks.

The Greenways CIP follows an opportunistic approach, contributing funding toward projects that are being completed by other departments or private development in order to meet the various objectives of the Greenways Program. The Greenways CIP also looks to leverage funds with outside agencies in order to move projects forward that meet more than one objective of the Greenways Program, but may not be the highest priority when evaluating any one particular objective. Projects included in the Greenways CIP are typically called out in the Greenways Master Plan and are projects that Greenways staff can take the lead in coordinating.

Funding Overview

Greenways projects are funded from the Transportation Fund, the Stormwater and Flood Management Utility Fund, and the Lottery Fund. Annual funding distribution for the Greenways Capital Program for 2014 is as follows:

- Transportation: $97,500
- Flood Utility: $97,500
- Lottery Fund:$150,000

Starting in 2015, the Lottery contribution is expected to be reduced to $125,441, based on Greenways receiving 15% of the city's funding allocation, with a projection of total Lottery proceeds being $836,275.

Accomplishments and Highlights

Projects Completed in 2013:

- Wonderland Creek Diagonal to Winding Trail; CEAP was completed in early 2013
- Fourmile Canyon Creek Upland to Violet; CEAP is anticipated to be completed by the end of 2013.

Fourmile Canyon Creek Greenways Improvements

The Urban Drainage and Flood Control District also completes maintenance projects along the major drainageways. In 2013 this includes the construction of a sediment trap along Fourmile Canyon Creek upstream of Broadway.

Projects Expected for Completion in 2014:

- Goose Creek Restoration Project: Restoration improvements along Goose Creek between Foothills Highway and 55th Street; This project is primarily being funded through a Section 206 Restoration grant through the U.S. Army Corps of Engineers. The city's 35% funding match is being met mostly through credits from city owned real estate.

Projects Starting in 2014, but Not Completed:

- Wonderland Creek: Foothills to 30th construction
- Wonderland Creek (28th Street): Diagonal to Winding Trail
- Fourmile Canyon Creek at 19th Street.

Highlights of 2015-2019 Projects:

The focus of the 2015-2019 Greenways CIP is on flood mitigation, bicycle and pedestrian multi-use paths and underpasses, and habitat and water quality improvements along the Fourmile and Wonderland Creek corridors.

In addition to the projects along Fourmile Canyon Creek and Wonderland Creek, possible habitat restoration projects during the next few years include:

- Stream bank restoration: Boulder Creek at Eben Fine Park
- Confluence of Bear Creek and Boulder Creek at Foothills Community Hospital
- Dry Creek habitat improvements: Flatirons Golf Course
- Goose Creek: Railroad to 47th Street tree plantings
- South Boulder Creek: Minimum stream flow
- Removal of Russian Olive trees: East of 75th Street along Boulder Creek
- Fish Passage enhancement projects in association with Fishing is Fun grants.

Relationship to Guiding Principles and Prioritization

CIP Guiding Principles:

Greenways projects are identified in multiple master plans and meet the community sustainability goals. Most of the Greenways projects leverage outside or interdepartmental funding. Greenways habitat improvements seek to be sustainable and are intended to reduce the future maintenance required.

The Greenways CIP has been developed within the context of and is consistent with the Boulder Valley Comprehensive Plan (BVCP), the Transportation Master Plan (TMP), the major drainageway plans, the Comprehensive Flood and Stormwater Master Plan and the Greenways Master Plan. The Greenways Master Plan was updated in 2011 to reflect improvements that had been completed, and adopted changes that have been made in other master plans, city policies and ordinances that affect the Greenways Program since the last Master Plan update in 2001. Information from other existing master plans for seven additional tributaries was also incorporated into the Greenways Master Plan update. Future opportunities will also be coordinated with the Open Space and Mountain Park's Grassland Plan and Visitor Master Plan and Trail Study Area plans where appropriate.

Prioritization:

Transportation and flood utility projects were identified from the Transportation Master Plan, and the major drainageway plans, and intra-departmental meetings were held to determine project priorities and timing. Private development activities were also evaluated. Many of the Greenways projects shown in the CIP are being designed and constructed in coordination with major flood or transportation improvements. The Greenways funding associated with these projects focuses on habitat restoration, water quality improvements and trail connections. In addition to leveraging funding with the Transportation and Flood Utilities budgets, funding for Greenways projects is also available through the Urban Drainage and Flood Control District and Federal Transportation funds.

Projects not in Master Plans:

None.

New Projects

The 2014-2019 CIP continues to focus on Fourmile Canyon and Wonderland Creeks.

Operation and Maintenance Impacts

$105,000 is budgeted each year for Greenways operations and maintenance. $80,000 of the operating budget is dedicated to habitat maintenance. The Greenways habitat crew works closely with Parks and Open Space maintenance staff to provide on-going maintenance, as well as on collaborative projects as part of the operations budget. 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.

Deferred Projects, Eliminated or Changed Projects

- Wonderland Creek from Foothills to 30th Street: Granted Federal Transportation Improvement Program (TIP) funds in the amount of $2 million (2012-2014)
- Wonderland Creek at 28th Street: Additional TIP funding was granted in the amount of $900,000 (2013-2014).

Unfunded Projects and Emerging Needs

The Flood Utility is currently updating the flood mapping for the following creeks and tributaries: Boulder Creek, Boulder Slough, Upper Goose Creek, Twomile Creek, Skunk Creek, Bluebell Creek and King's Gulch. Once the new mapping has been approved by FEMA, a flood mitigation analysis will be completed for each of these tributaries to determine if it is economically feasible to reduce the flood risk through construction of capital improvements. These studies, along with the Transportation Master Plan update will help inform future Greenways CIP projects.

Board Action

On June 13, 2013 the Greenways Advisory Committee voted (6-0) to recommend the 2014-2019 Greenways Capital Improvements Program to the City's Planning Board and to the City Council.

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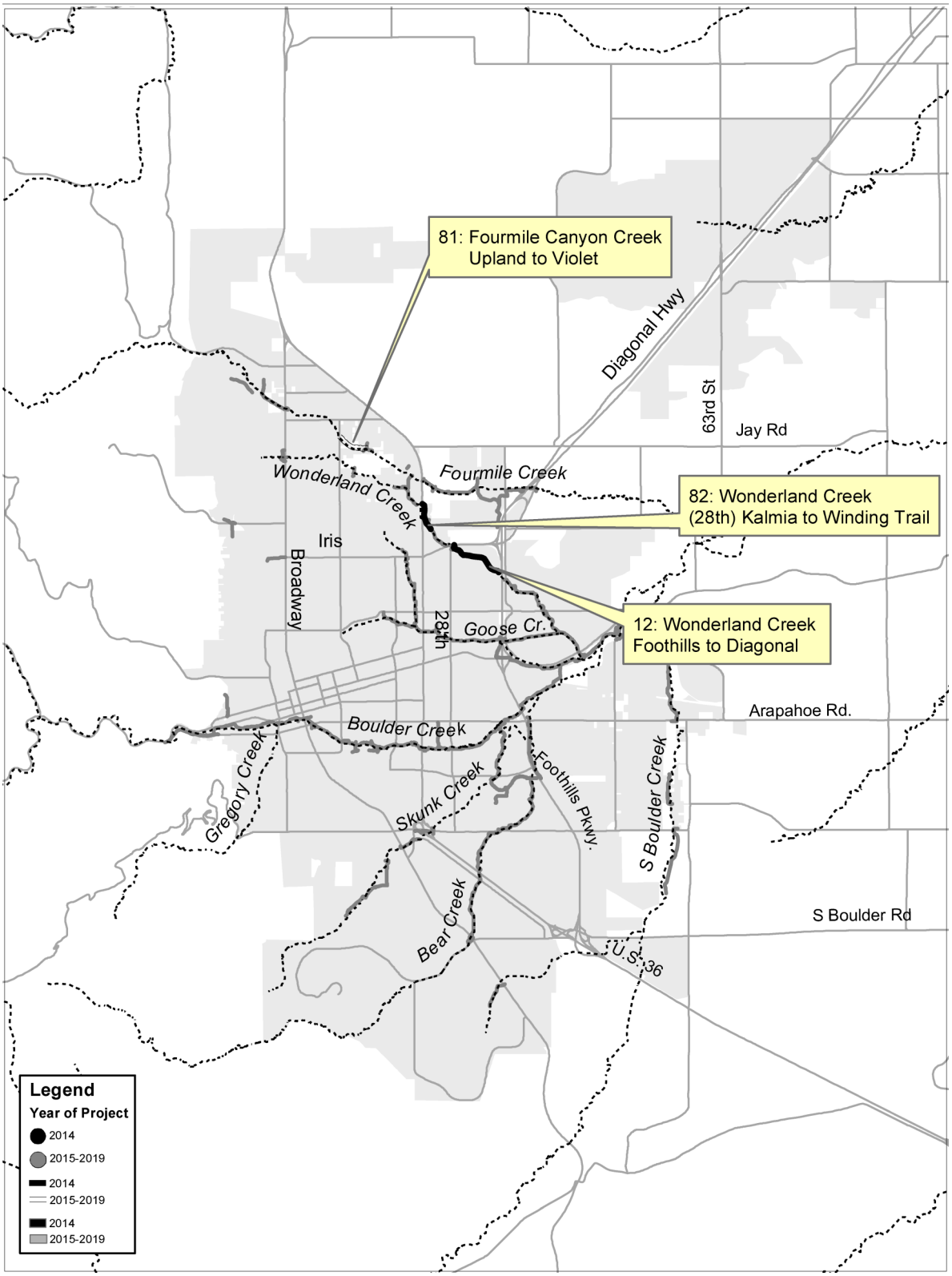
Table 6-1: 2014-2019 Funding Summary By Department

PUBLIC WORKS - GREENWAYS

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Wonderland Creek (28th) Kalmia to Winding Trail	$ 5,915,441	$ 4,295,000	$ 270,441	$ -	$ -	$ -	$ -	$ 4,565,441	$ 1,350,000	$ -
Fourmile Canyon Creek Upland to Violet	3,500,000	-	-	770,441	770,441	770,441	520,441	2,831,764	-	668,236
Fourmile Canyon Creek at Crestview & 19th	2,222,159	600,000	-	-	-	-	-	600,000	1,622,159	-
Wonderland Creek Foothills to 30th	10,109,484	4,000,000	-	-	-	-	-	4,000,000	6,109,484	-
Subtotal	$ 21,747,084	$ 8,895,000	$ 270,441	$ 770,441	$ 770,441	$ 770,441	$ 520,441	$ 11,997,205	$ 9,081,643	$ 668,236
Capital Maintenance										
Miscellaneous Water Quality, Restoration and Trail Improvements	$ -	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Subtotal	$ -	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 300,000	$ -	$ -
Total	**$ 21,747,084**	**$ 8,945,000**	**$ 320,441**	**$ 820,441**	**$ 820,441**	**$ 820,441**	**$ 570,441**	**$ 12,297,205**	**$ 9,081,643**	**$ 668,236**

City of Boulder Captial Improvement Projects, 2014 - 2019

PW/ Greenways



Project Name: Fourmile Canyon Creek at Crestview & 19th

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Stormwater and Flood Managem	**Subcommunity:**	North Boulder
Project Number:	431730	**BVCPArea:**	Area I
CEAP Required:	Yes	**Map Number:**	80
		CEAP Status:	CEAP Completed in 2012

Project Description

This project includes improvements to Fourmile Canyon Creek, flood mitigation, environmental restoration and off-street trail connections. These improvements will be done in conjunction with work being done by the Flood Utilities Division, Transportation Division and the Parks Department. The Greenways Master Plan and Transportation Master Plan and Fourmile Flood Mitigation Plan show a path connection along Fourmile Canyon Creek from 22nd Street to 19th Street. 100-year flood improvements were proposed in the Flood Mitigation Plan for 19th Street to provide access to Crest View Elementary School. The project CEAP, which was completed in 2012, includes a flood/bicycle underpass at 19th Street and a combined emergency access and multi-use path from 19th Street to Tamarack.

The project is anticipated to be completed in 2014.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The CEAP for this project was reviewed by the Greenways Advisory Committee in Feb 2012 and Council in April 2012.

Relationship with Other Departments

All work along the Greenways is coordinated through the Greenways staff group that includes representatives from the Open Space Department, Parks and Recreation Department, Planning Department and Transportation and Utilities Divisions.

Change from Past CIP

added $600,000 in 2014

Estimated Total Cost

Project Cost

Planning	$300,000
Acquisition	$200,000
Construction	$1,722,159
Total Project Cost	**$2,222,159**

Unfunded Amount

Unfunded Amount

Project Cost Total	$2,222,159
Funding Total	($2,222,159)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Stormwater & Flood Management Utility Fund	$874,526	$600,000	$0	$0	$0	$0	$0
Tributary Greenways	$747,633	$0	$0	$0	$0	$0	$0
Subtotal All Funds	$1,622,159	$600,000	$0	$0	$0	$0	$0
Total Funding Plan	**$2,222,159**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $1,000 **Funding Source:** Stormwater and Transportation maintenance

Additional Annual O&M Description:

will be covered by existing maintenance budgets

Project Name: Fourmile Canyon Creek - Upland to Violet

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Stormwater and Flood Managem	**Subcommunity:**	North Boulder
Project Number:	431729	**BVCPArea:**	Area I
CEAP Required:	Yes	**Map Number:**	16
		CEAP Status:	no

Project Description

This project includes improvements to Fourmile Canyon Creek from Upland to Violet, flood mitigation, environmental restoration and off-street trail connections. These improvements will be done in conjunction with Greenways, Transportation Division and the Parks Department. The Greenways Master Plan, Transportation Master Plan and Fourmile Flood Mitigation Plan show a path connection from Upland to Violet with flood/bicycle underpasses under Violet and Upland Avenues. The path connection will traverse Violet Park. 100-year flood improvements are proposed for the area around Crest View Elementary School. A project CEAP will be completed to determine the details of the project.

Funding from the flood budget for Fourmile Canyon Creek was reduced from what was shown in last year's CIP in 2016 and 2017, in order to fund projects along Wonderland Creek. Based on very conceptual plans, this project is estimated to cost approximately $3.5 million.

The project is anticipated to be completed in 2020.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Flood mitigation planning was completed in 2009. A CEAP will be completed for this project.

Relationship with Other Departments

All work along the Greenways is coordinated through the Greenways staff group that includes representatives from the Open Space Department, Parks and Recreation Department, Planning Department and Transportation and Utilities Divisions.

Change from Past CIP

reduced flood funding in 2016 and 2017 from $1 million to $500,000

Estimated Total Cost

Project Cost

Planning	$900,000
Acquisition	$600,000
Construction	$2,000,000
Total Project Cost	**$3,500,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$3,500,000
Funding Total	($2,831,764)
Total Unfunded	**$668,236**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Stormwater & Flood Management Utility Fund	$0	$0	$0	$500,000	$500,000	$500,000	$250,000
Tributary Greenways	$0	$0	$0	$270,441	$270,441	$270,441	$270,441
Subtotal All Funds	$0	$0	$0	$770,441	$770,441	$770,441	$520,441

Total Funding Plan **$2,831,764**

Additional Annual Operations and Maintenance

Additional Annual O&M: $2,000 **Funding Source:** Stormwater and Flood and Transportation

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Miscellaneous Water Quality, Restoration and Trail Improvements

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Greenways	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

Miscellaneous water quality, habitat resoration and trail improvements projects.

This project is for an ongoing funding program. In 2013 this funding was used to help fund a joint habitat restoration project with the U.S. Army Corps along Goose Creek between Foothills Highway and the confluence with Boulder Creek.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Projects will be coordinated with Transportation, Utilities, Parks and Open Space or the developers of a property.

Relationship with Other Departments

Projects are developed with input from the City's Transportation, Utilities, Open Space, Parks Department, Boulder County and as well as through coordination with developers.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning
Acquisition
Construction

Total Project Cost

Unfunded Amount

Unfunded Amount

Project Cost Total
Funding Total

Total Unfunded $0

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Tributary Greenways		$50,000	$50,000	$50,000	$50,000	$50,000	$50,000

Total Funding Plan

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

These projects are enhancements to existing conditions and will be maintained by the city's Greenways habitat maintenance crew and/or Parks and Open Space maintenance staff. Initial maintenance levels when the project is first constructed will be higher, but ultimatley these projects should require less maintenance than the current conditions dictate.

Project Name: Wonderland Creek at 28th Street

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Stormwater and Flood Managem	**Subcommunity:**	Crossroads
Project Number:	431012	**BVCPArea:**	Area I
CEAP Required:	Yes	**Map Number:**	82
		CEAP Status:	yes

Project Description

The Wonderland Creek Greenways Improvement Project at 28th Street involves the construction of flood mitigation improvements along Wonderland Creek from the Diagonal Highway to Winding Trail Drive, including two bicycle and pedestrian underpasses, at 28th Street and Kalmia Ave. The underpasses also serve as flood conveyance. These improvements are shown in the Greenways and Transportation Master Plans. Flood improvements, based on the Fourmile and Wonderland Flood Mitigation Plan and the Comprehensive Flood and Stormwater Master Plan, are being designed to convey the 100-year storm event.

Project funding includes $900,000 from Federal TIP ($100,000 in 2013 and $800,000 in 2014) and $275,000 from the Urban Drainage and Flood Control District.

The project is anticipated to be completed in 2016.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The CEAP was completed in early 2013.

Relationship with Other Departments

All work along the Greenways is coordinated through the Greenways staff group that includes representatives from the Open Space Department, Parks and Recreation Department, Planning Department and Transportation and Utilities Divisions.

Change from Past CIP

moved $1.5 million from 2015 to 2014 and added $450,000

Estimated Total Cost

Project Cost

Planning	$960,441
Acquisition	$200,000
Construction	$4,755,000
Total Project Cost	**$5,915,441**

Unfunded Amount

Unfunded Amount

Project Cost Total	$5,915,441
Funding Total	($5,915,441)
Total Unfunded	

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Stormwater & Flood Management Utility Fund	$1,350,000	$4,000,000	$0	$0	$0	$0	$0
Tributary Greenways	$0	$295,000	$270,441	$0	$0	$0	$0
Subtotal All Funds	$1,350,000	$4,295,000	$270,441	$0	$0	$0	$0

Total Funding Plan **$5,915,441**

Additional Annual Operations and Maintenance

Additional Annual O&M: $2,000 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

Additional Annual O&M Description:

will be covered by existing maintenance staff

Project Name: Wonderland Creek - Foothills to 30th Street

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Stormwater and Flood Managem	**Subcommunity:**	Palo Park
Project Number:	431011	**BVCPArea:**	Area I
CEAP Required:	Yes	**Map Number:**	12
		CEAP Status:	CEAP Completed

Project Description

The Wonderland Creek Greenways Improvement Project involves the construction of a multi-use path and flood mitigation improvements along Wonderland Creek from Foothills Highway to the Diagonal Highway. These improvements are shown in the Greenways and Transportation Master Plans. The path connection will include an underpass at the Burlington Northern Railroad crossing near Foothills Highway and an at-grade crossing of Iris Avenue and 34th Street. Flood improvements, based on the Fourmile and Wonderland Flood Mitigation Plan and the Comprehensive Flood and Stormwater Master Plan, are being designed to convey the 100-year storm event and will include a box culvert under Iris Avenue. No flood improvements are being made along the existing channel north of Iris Avenue, as only one commercial structure is located in the 100-year floodplain and it is elevated.

Project funding includes $2 million in Federal TIP ($1.2 million in 2014) and $1.8 million from the Urban Drainage and Flood Control District.
The project is anticipated to be completed in 2016.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Flood mitigation planning was completed in 2009. A CEAP was completed for this project.

Relationship with Other Departments

This project relates to the City's Greenways Program and Tranportation Program

Change from Past CIP

added $2.8 million in 2014

Estimated Total Cost

Project Cost

Planning	$909,484
Acquisition	$1,500,000
Construction	$7,700,000
Total Project Cost	**$10,109,484**

Unfunded Amount

Unfunded Amount

Project Cost Total	$10,109,484
Funding Total	($10,109,484)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Stormwater & Flood Management Utility Fund	$3,895,167	$4,000,000	$0	$0	$0	$0	$0
Tributary Greenways	$391,716	$0	$0	$0	$0	$0	$0
Stormwater & Flood Management Utility Fund	$1,822,601	$0	$0	$0	$0	$0	$0
Subtotal All Funds	$6,109,484	$4,000,000	$0	$0	$0	$0	$0

Total Funding Plan **$10,109,484**

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

City of Boulder

Information Technology

2014-2019 Capital Improvement Program

Funding Overview

De-Bruced property tax revenue of approximately $350K per year has been the primary, ongoing funding source for the fledgling Information Technology (IT) CIP, supplemented by limited operating transfers from departments such as IT. This has resulted in a 2013 fund balance of nearly $1.6 million dedicated primarily to the critical finance, human resources and payroll system replacement project outlined below.

Both the Computer Replacement Fund (CRF) and the Telecommunications Fund (TF) (both referred to as "internal service funds") have been used to progressively accumulate replacement reserves for existing personal computers, server equipment, network infrastructure, central telephone systems and associated operating system and database costs. This year, the capital elements of the Computer Replacement Fund (CRF) have been added to the city's CIP projects. These systems represent the critical IT capital infrastructure upon which all the major CIP projects highlighted below depend.

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects managed by IT. CIB funding (including partial funding) is indicated by the following symbol:

The new City of Boulder website

Accomplishments and Highlights

Projects Completed in 2013:

- Integrated finance, human resources and payroll system: begin implementation of the Tyler Technologies "Munis" product
- Permits, licensing and land records system: begin implementation of Land Link replacement system
- Complete redesign of the City's website and implementation of new e-services: Included in the website launch is a new Constituent Relationship Management (CRM) system allowing customers to make on-line requests for information and services, a new "open data" web page where customers can download selected digital city datasets, and a pilot archival records site where a progressive series of scanned legacy documents can be found

- Development of a document management implementation plan: plan for the expanded use of automated document management and digital imaging technologies to underserved departments and the public.

Projects Expected for Completion in 2014:

- Assessment of citywide asset and maintenance management software needs: Assessment of needs for a separate asset/maintenance management system, with an expansion of the existing Cartegraph system or procurement of new tools.

Projects Starting in 2014, but Not Completed:
None.

Highlights of 2015-2019 Projects:
A 2014 major update to the 2009-2013 IT Strategic Plan will inform 2015-2019 projects. Expected highlights of this plan are included in the "Emerging Needs" section below.

Relationship to Guiding Principles and Prioritization

CIP Guiding Principles:
The current IT Strategic Plan serves as the Master Plan for major, citywide automation initiatives over the planning horizon (mid-2009 through 2014). IT capital projects are integral to maintaining, supporting and enhancing city-wide business systems.

Prioritization:
The plan resulted in the identification of five (5) major technology investment goals with individual projects aligned with one of each, and classifies projects into the five goal areas using the city's business model approach to establish relative priorities. Below is the comprehensive list of both completed and pending projects from the Plan.

Figure 7-1: IT Strategic Plan Projects

IT Projects	Fiscally Constrained			Action			Vision		
	Essential	Desirable	Discretionary	Essential	Desirable	Discretionary	Essential	Desirable	Discretionary
1. Service Quality and Accessibility									
1.1 Develop eGovernment strategic plan		X							
1.2 Redesign the City's website				X					
1.3 Complete document management implementation				X					
2. IT Service and Decision Making Alignment									
2.1 Implement citywide IT governance	X								
2.2 Establish IT performance measures	X								
2.3 Create IT CIP fund	X								
2.4 Align IT charges with services	X								
2.5 Conduct financial management/ERP needs assessment					X				
2.6 Develop a document management implementation plan		X							
2.7 Adopt IT portfolio management						X			
2.8 Create a customer account representative position					X				
2.9 Centralize infrastructure and customer services functions	X								
2.10 Implement central IT service model enhancements				X					
3. Efficiency and Effectiveness									
3.1 Implement an integrated finance/HR system				X					
3.2 Implement citywide maintenance management automation				X					
3.3 Implement permit management				X					
4. Innovation									
4.1 Pilot a business intelligence system					X				
4.2 Create a plan for establishing a county/city GIS group		X							
5. Quality, Sustainable IT Infrastructure									
5.1 Migrate and optimize servers	X								
5.2 Complete replacing phone system with VoIP	X								
5.3 Conduct IT security audits/assessments					X				

Projects Not in Master Plans:

All IT capital projects have been identified in the IT Strategic Plan.

New Projects

None.

Operation and Maintenance Impacts

While many of the current planned IT capital projects will produce more efficient ways of providing or delivering service and even reduced ongoing costs, it is anticipated that ongoing maintenance costs for new and replaced technologies will result in a net increase to operational costs. A significant contributing factor is the net addition of automated solutions to the city's technology portfolio through new CIP and Capital Bond Initiative investments (e.g. the online Constituent Relationship Management system). Addressing this unfunded liability will be included in the

update to the IT Strategic Plan.

Deferred Projects, Eliminated or Changed Projects
None.

Unfunded Projects and Emerging Needs
Though critical short-term technology investment needs are significantly aided by the one-time funding from the recent capital bond initiative, current annual IT CIP funding allocations of roughly $350k annually will not address the funding needs associated with new, emerging software-based automation opportunities that will continually arise. In addition, current ongoing CIP funding will not address the need to accumulate reserves for future replacements and/or expansion of critical enterprise software (e.g. finance and payroll) and departmental systems (e.g. police records management, parks and recreation registration, court case management and many others).

From a broader perspective, the Computer Replacement and Telecommunication internal service funds currently used to accumulate reserves for future IT infrastructure replacement (e.g. PCs, networks, servers, telephones, etc) are based on a funding model that only accounts for the replacement of current systems. Particularly as mobile computing infrastructure (e.g. mobile devices, wireless networks, virtualized servers, associated security systems) and data storage requirements expand significantly over the next several years, we lack capital funding to address infrastructure capacity expansion needs to sustain them.

A major focus of the pending major update to the IT Strategic Plan (2015-2018) will include identification and costing of expanded automation and deferred capital replacement needs. At a basic level, it is anticipated that the updated Plan will move beyond planning for the needs of only enterprise systems (those impacting nearly all departments) by expanding to include the critical business and automation needs of individual departments – including current critical systems without future replacement funding strategies. The significant expansion of electronic services, mobile computing, system virtualization and cloud computing (all of which the City is pursuing in current CIP projects or smaller tactical projects) will also be a key theme of the new Plan.

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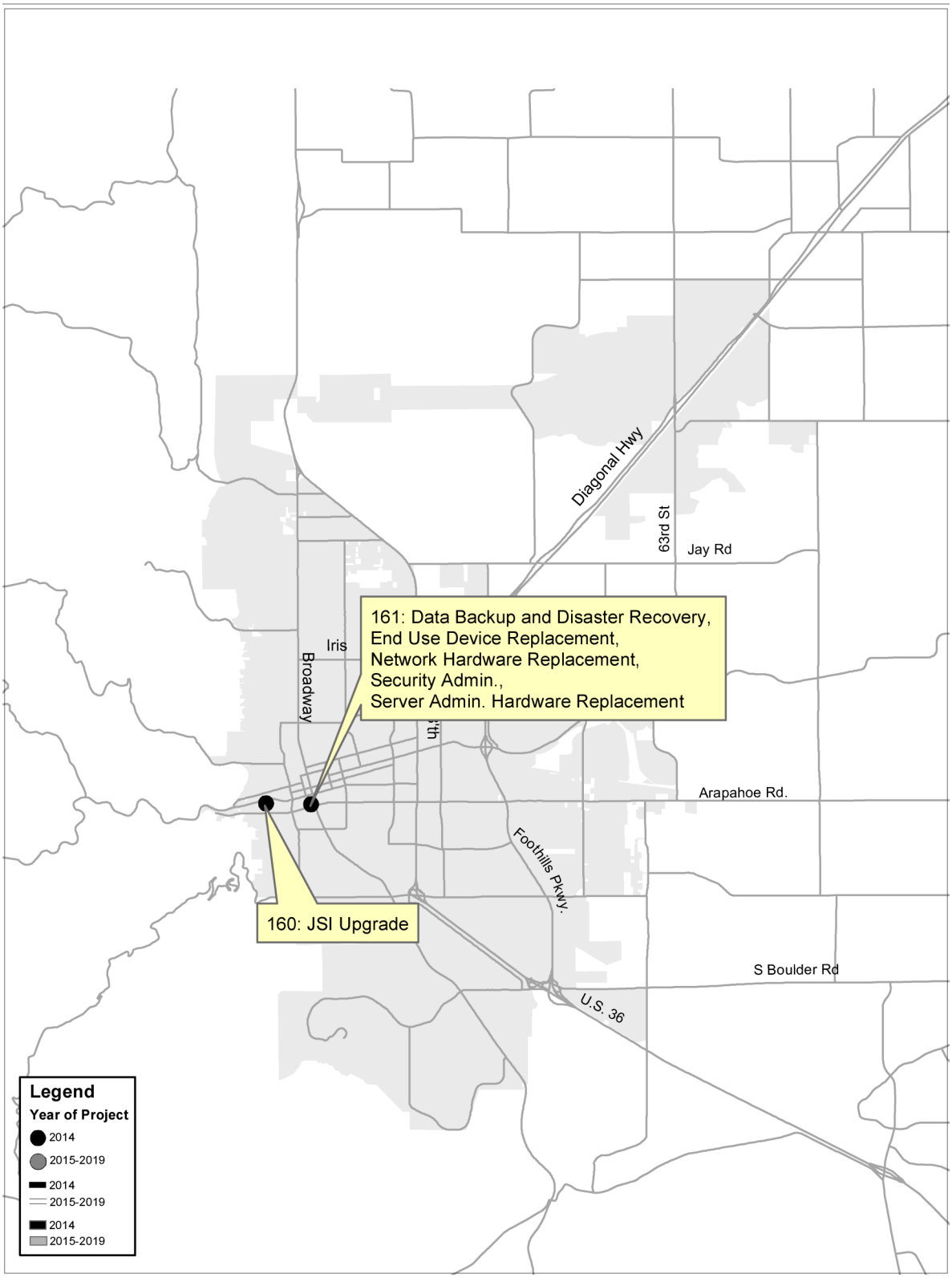
Table 7-1: 2014-2019 Funding Summary By Department

INFORMATION TECHNOLOGY

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
JSI Upgrade	$ 135,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 135,000	$ -
Subtotal	$ 135,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 135,000	$ -
Capital Maintenance										
Data Backup and Disaster Recovery	$ -	$ -	$ -	$ -	$ -	$ 44,000	$ 85,000	$ 129,000	$ -	$ -
End User Device Replacement	-	458,000	458,000	458,000	458,000	458,000	458,000	2,748,000	-	-
Network Hardware Replacement	-	150,000	160,671	148,041	113,893	116,503	612,224	1,301,332	-	-
Security Administration	-	5,250	11,500	54,000	-	-	6,700	77,450	-	-
Server Admin Hardware Repalcement	-	25,500	615,000	10,500	-	81,000	35,000	767,000	-	-
Subtotal	$ -	$ 638,750	$ 1,245,171	$ 670,541	$ 571,893	$ 699,503	$ 1,196,924	$ 5,022,782	$ -	$ -
Total	**$ 135,000**	**$ 638,750**	**$ 1,245,171**	**$ 670,541**	**$ 571,893**	**$ 699,503**	**$ 1,196,924**	**$ 5,022,782**	**$ 135,000**	**$ -**

City of Boulder Captial Improvement Projects, 2014 - 2019

Information Technology



Project Name: Data Backup and Disaster Recovery

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Information Technology	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	161
		CEAP Status:	

Project Description

The project reflects the hardware, software and support needed to ensure reliable high speed backup of files, databases and application stored on the city's enterprise servers and data storage sub-systems. Note that these systems are required not only for disaster preparedness and recovery purposes, but to meet legal records retention requirements.

No major changes are planned to this system until late 2018 / early 2019.

Please note there is also another project listed for this system which is included in the non-funded project category.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [ ] Sufficient funds to operation and maintain
- [x] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Planned changes to the system are subjected to the IT Change Control review process.

Relationship with Other Departments

City-wide Enterprise service supporting all city departments

Change from Past CIP

This is a new capital maintenance project to the CIP this year

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	**$129,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$129,000
Funding Total	($129,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Computer Replacement Fund	$0	$0	$0	$0	$0	$44,000	$85,000
Total Funding Plan	**$129,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $27,000 **Funding Source:** Computer Replacement Fund

Additional Annual O&M Description:

Operating costs for this system are reflective of the annual software maintenance fees for the backup software.

Project Name: End User Device Replacement

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Information Technology	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	161
		CEAP Status:	

Project Description

Funding for replacement of PC's, laptops, workgroup printers and scanners for the city's document management system system which are all heavily utilized by staff to meet the daily operational requirements of the city. Project includes replacement of end-user hardware on a regular basis at the end of it's useful life, independent of equipment failure or substandard performance. Pad devices are currently not included in our user device replacement cycle.

Relationship to Guiding Principles

- [ ] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [x] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Relationship with Other Departments

City-wide Enterprise service supporting all city departments

Change from Past CIP

This is a new addition to the CIP this year.

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($2,748,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Computer Replacement Fund	$0	$458,000	$458,000	$458,000	$458,000	$458,000	$458,000
Total Funding Plan	**$2,748,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** n/a

Additional Annual O&M Description:

Equipment is covered by manufactures warranty throughout lifecycle. No additional operating costs are incurred.

Project Name: JSI Upgrade

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Information Technology	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	160
		CEAP Status:	

Project Description

Migration of our court case management system (JSI's "FullCourt") to a web-based environment. The upgrade to the new environment is not covered by conventional software maintenance fees and will involve significant reengineering of the system platform.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [x] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

None Noted.

Relationship with Other Departments

This project will primarily involve the Muni Court department and the Information Technology department. If a decision is made to include the implementation of the prosecution module in this project, then the City Attorney's office will also be involved.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$0
Acquisition	$0
Construction	$135,000
Total Project Cost	**$135,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$135,000
Funding Total	($135,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
General Fund	$135,000	$0	$0	$0	$0	$0	$0
Total Funding Plan	**$135,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Existing operating budget should be sufficient to support this cost. It is not anticiapted that the upgrade alone will result in higher maintenance costs.

Additional Annual O&M Description:

There will be an annual payment to the software vendor for software support and maintenance.

Project Name: Network Hardware Replacement

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Information Technology	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	161
		CEAP Status:	

Project Description

This is an ongoing project and includes the hardware and related software used to provide and support a reliable and secure high-speed data and voice communications infrastructure to connect City computing devices to internal data repositories and computing services, while supporting connectivity to the Internet and other external data resources and services.
Project involves maintenance and end of life equipment replacement.

Most elements of the network infrastructure have a useful life of six years. This is the maximum lifecycle recommended by the equipment vendor and industry best practices. From 2014 – 2018, approximately 10% of the city's network hardware will be replaced as part of on-going system maintenance plans. In 2019, nearly 50% of the system is due for replacement resulting in significant changes to the city's overall network infrastructure at that time.

Please note there is also an unfunded element to this system of $118,000 with corresponding annual O&M of $14,500, which will be reflected in the unfunded items section of the document.

Relationship to Guiding Principles

- [ ] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [x] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Planned changes to the system are subjected to the IT Change Control review process.

Relationship with Other Departments

City-wide Enterprise service supporting all city departments.

Change from Past CIP

This is a new capital maintenance project to the CIP this year.

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	**$1,301,331**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,301,331
Funding Total	($1,301,331)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Computer Replacement Fund	$0	$150,000	$160,671	$148,041	$113,893	$116,503	$612,223
Total Funding Plan	**$1,301,331**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Computer Replacement Fund

Additional Annual O&M Description:

O&M costs related to funded portion of this project, are covered in the current budget.

Project Name: Security Administration

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Information Technology	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	161
		CEAP Status:	

Project Description

This is an ongoing program. Equipment used to provide and support network devices and software needed to ensure the city's network, server and computing infrastructure are secured against external Cyber-threats such as viruses, malware and hackers in compliance with FBI, CIP (Critical Infrastructure Protection) and PCI (Purchasing Card Industry) security standards. Project includes maintenance and end-of life-equipment replacement.

Minor replacements are planned during years 2014 and 2015, with a majority of the systems due for replacement during 2016. Planning of future enhancements will be included in the upcoming IT Strategic Plan redevelopment process.

Relationship to Guiding Principles

- ☐ Consistent with Master Plans
- ☐ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☑ Maintains and enhances City's business needs
- ☐ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☐ Provides sufficient reserves
- ☐ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

City-wide Enterprise service supporting all city departments.

Relationship with Other Departments

This is a new capital maintenance project to the CIP this year.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	**$77,450**

Unfunded Amount

Unfunded Amount

Project Cost Total	$77,450
Funding Total	($77,450)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Computer Replacement Fund	$0	$5,250	$11,500	$54,000	$0	$0	$6,700
Total Funding Plan	**$77,450**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Computer Replacement Fund

Additional Annual O&M Description:

Operating costs, including the maintenance and support contracts on the firewall hardware, are covered in the current budget.

Project Name: Server Admin Hardware Repalcement

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Information Technology	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	161
		CEAP Status:	

Project Description

This is an ongoing program. Hardware and related software necessary to provide and support the computing infrastructure that delivers critical services, including enterprise software applications (e.g. financial, payroll, permitting and licensing, electronic mail, etc.), critical departmental applications (e.g. police and fire records, court case management, recreation registration, etc.) enterprise database and data storage resources, internal/external web systems, and electronic document management repositories. Project includes maintenance and end of life equipment replacement.

Relationship to Guiding Principles

- [ ] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [x] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

City-wide Enterprise service supporting all city departments.

Relationship with Other Departments

This is a new capital maintenance project to the CIP this year.

Change from Past CIP

This is a new addition for 2014.

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	**$767,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$767,000
Funding Total	($767,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Computer Replacement Fund	$0	$25,500	$615,000	$10,500	$0	$81,000	$35,000
Total Funding Plan	**$767,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Computer Replacement Fund

Additional Annual O&M Description:

Operating costs, including the support and maintenance payments on the server operating systems and other necessary licensesare covered in the current budget.

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City of Boulder

OPEN SPACE AND MOUNTAIN PARKS

2014-2019 Capital Improvement Program

Funding Overview

Open Space and Mountain Parks' CIP projects are funded from two sources, the Open Space Fund and the Lottery Fund. Ninety two percent of Open Space Fund revenues derive from dedicated sales and use tax collections. There are three sales taxes that support the Open Space Fund: the 0.40% sales tax has no sunset; the 0.33% sales tax expires December 31, 2018; and the 0.15% sales tax expires December 31, 2019.

Open Space and Mountain Parks also expends Lottery Funds on CIP projects. The Lottery Fund derives its revenue from the Conservation Trust Fund. Lottery Funds are not restricted to OSMP.

Accomplishments and Highlights

Projects Completed in 2013:

- Land and Visitor Services
  - Anemone Loop Trail – Construct new trail on Anemone Hill and restore existing undesignated trails
  - Chautauqua Bus Pullout – Construction of a bus pullout near the Chautauqua Ranger Cottage to provide safe egress and ingress for people going to Chautauqua by bus; parking lot will be refurbish as well
  - Shadow Canyon Trail – Repair lower portion of the trail and reroute the upper section
  - Bear Canyon Trail – Repair the trail including the drivable portion
  - Upper Big Bluestem – Reroute trail out of riparian zone
  - Wittemyer – Construct new trail on perimeter of Wittemyer and restore existing undesignated trails
  - Design work on several trails – Seal Rock, Ranger, Saddle Rock, Green Mountain West Ridge, and Four Pines – in preparation for field work in 2014
  - Chapman Drive West Trailhead – Construction of trailhead on west side of SH 119 at Chapman Drive
  - Gregory Canyon Trailhead – Refurbish existing trailhead to improve accessibility and parking
  - Flagstaff Summit – Design work and grant applications for funding.

Champman Drive Switchback after repairs

- Ecological Systems
  - Flagstaff Road Sediment Control Basin, Phase 1 – This project is the first phase of a multi-phased project designed to reduce traction sand and other sediments entering and impacting resources in Long Canyon
  - Native Seed Storage Facility – A climate-controlled storage building to store native seed used in OSMP restoration projects
  - Forest Ecosystem Management Plan implementation – A number of forest thinning projects on OSMP land to restore forest health and help reduce the risk of wildfire
  - Integrated Pest Management – Manage weeds to comply with state weed laws, restore native plant communities and maintain biotic diversity on OSMP land
  - Restoration Legacy Program – Designed and implement projects to restore degraded land and improve ecosystem functioning on OSMP land
  - Wildlife and fish habitat improvement projects – Habitat fencing, amphibian and prairie dog management, and stream and pond habitat enhancement.
- Cultural Resources
  - Cultural resource interpretive signs per West Trail Study (TSA) Plan – South Mesa Trailhead cultural district and Flagstaff cultural district will feature interpretive signs to highlight areas' history.

Projects Expected for Completion in 2014:

- Land and Visitor Services
  - Reroute Seal Rock Trail
  - Reroute Ranger Trail
  - Reroute Saddle Rock Trail
  - Reroute Green Mountain West Ridge Trail
  - Reroute trails in the Four Pines area and restore many undesignated trails
  - IBM Connector Trail Bridges – Installation of two bridges to connect sections of the IBM Connector Trail
  - Community Ditch Trail underpass at SH 93 – Installation of an underpass under SH 93 at Community Ditch Trail as part of a larger CDOT project
  - Flagstaff Summit recreation area refurbishment
  - Flagstaff Trail – Reroute between Crown Rock and Baseline
  - Ute Trail – Reroute trail
  - Range View Trail – Reroute trail
  - Redrocks Area – Reroute, construct new and restore undesignated trails
  - Amphitheater Trail – Repair trail
  - Trail approaches to Flagstaff Drive – Improve to provide increased safety for visitors crossing Flagstaff Drive
  - Junction of Fern Canyon, Shadow Canyon and Mesa Trails – Redesign and refurbish
  - Long Canyon Trail – Reroute.

- Ecological Systems
    - Flagstaff Road Sediment Control Basin, Phase 2 – A sediment control basin will be designed and constructed to reduce traction sand and other sediments from entering and impacting resources in Long Canyon
    - Forest Ecosystem Management Plan implementation – Continue forest thinning projects on OSMP lands to restore forest health and help reduce the risk of wildfire
    - Integrated Pest Management – Manage weeds to comply with state weed laws, restore native plant communities and maintain biotic diversity on OSMP lands
    - Restoration Legacy Program – Design and implement additional restoration projects to restore degraded land and improve ecosystem functioning on OSMP land
    - South Boulder Creek Bridge downstream of South Boulder Road – Construct a pedestrian bridge to better manage access to the South Boulder Creek Trail and reduce impacts to the riparian area from undesignated trial use
    - South Boulder Creek Bridge upstream of South Boulder Road – Replace an existing concrete box culvert with a pedestrian bridge; the existing culvert is typically blocked by debris during spring flows in South Boulder Creek creating a hazard to OSMP maintenance staff cleaning the culvert and affecting visitors by closing the trail until flows recede
    - North Trail Study Area resource inventory and planning – Inventory resources in the North TSA and begin planning efforts to protect and enhance resources.
- Cultural Resources
    - Viele House repair/stabilization – Viele House sits within a City of Boulder Landmark district and is in danger of collapse if not repaired
    - Hartnagle House repair/stabilization – Hartnagle House and buildings were once owned by two of Boulder's most prominent early citizens, Hannah Barker and William A Davidson; the house is in need of repair.

Projects Starting in 2014, but Not Completed:

- Cultural Resources
    - Dagle Barn repair/stabilization: The Dagle Barn is one of OSMP's oldest; it needs repair and stabilization.

Highlights of 2015–2019 Projects:

- Land and Visitor Services
    - Completion of trail and trailhead projects called for in the West TSA Plan
    - Completion of the North TSA Plan
    - Implementation of the trail and trailhead projects called for in the North TSA Plan
    - Completion of the East TSA Plan

- Completion of the South Boulder Creek in stream flow improvements in conjunction with the Gross Reservoir expansion.

- Ecological Systems
  - Forest Ecosystem Management Plan implementation
  - Integrated Pest Management implementation
  - Wildlife and fish habitat improvement projects
  - Restoration Legacy Program implementation
  - Installation of additional sediment containment basins on Flagstaff Drive.

Relationship to Guiding Principles and Prioritization

CIP Guiding Principles:

All proposed projects in the 2014 – 2019 CIP are consistent with applicable guiding principles. Sufficient funds in the operating budget have been identified for ongoing maintenance and operations. Most projects in the proposed CIP go towards maintaining and improving existing assets. These projects are called out in the Visitor Master Plan, and/or the subsequent TSA Plans, the Forest Ecosystem Management Plan and the Grassland Ecosystem Management Plan. The projects add to the quality of life and visual appeal of the community that help to attract employment opportunities and sustain job retention in the Boulder Valley. Many of these projects improve the sustainability of our lands and the resources they support.

Cultural resource projects help to fulfill the city of Boulder's long term sustainability goals by upholding Boulder's Historic Preservation Ordinance (#4000 adopted 1974) which directs the city to "promote the public health, safety and welfare by protecting, enhancing, and perpetuating buildings, sites, and areas of the city reminiscent of past eras, events, and persons important in local, state, or national history or providing significant examples of architectural styles of the past…. to develop and maintain appropriate settings and environments for such buildings, sites, and areas to enhance property values, stabilize neighborhoods, promote tourist trade and interest, and foster knowledge of the city's living heritage."

Prioritization:

The over-riding factor in determining the priority of projects to work on is the direction given by City Council to implement the West TSA Plan as quickly as possible. Within the list of projects called for in the West TSA Plan, priority was given to projects that will have the most positive effect on resource protection and land sustainability within the system. Additionally, some projects were chosen due to their proximity to other large projects that are at the top of the priority list. The Open Space Board of Trustees directed that some projects be prioritized based on their smaller size and that neighborhoods were particularly interested in seeing these projects get done.

In addition, management plans establish the priority for projects.

Projects Not in Master Plans:
Establish an OSMP Facility Capital Replacement reserve to be used to fund major maintenance, upkeep and repair of facilities.

New Projects

- Establish and begin funding an OSMP Facility Capital Replacement reserve
- Hartnagle Farm house stabilization/repair – This historic house and farmstead needs repair and updating before it suffers more damage; the farm lends itself to use as a small, organic farm as that was the site's original purpose.

Operation and Maintenance Impacts

As new and rerouted trails are built along with new trailheads, the need for operations and maintenance funds increases. The impact is slight in the near term and, in fact, may decrease since older infrastructure will be replaced with new. However, as trails and trailheads age they will need maintenance just as any aging facility does. It is anticipated additional funding will be required for operation and maintenance as the OSMP infrastructure expands.

Deferred Projects, Changes and Unfunded Needs

None.

Unfunded Projects and Emerging Needs

Emerging needs occur frequently in cultural resource structures that are exposed to the elements. It is difficult to predict repairs that will be made necessary on an emergency basis, but with historic (old) structures, there will always be something to repair. Also we continue to be at risk of wildfire due to the continuing drought. While impact mitigation of wildfires is not a CIP project, a wildfire has the potential to pull funds away from planned CIP projects either by the amount of money needed to fight the fire and/or by creating higher priority projects.

Advisory Board Action

On July 11, 2013 the Open Space Board of Trustees voted (5-0) to "Approve, and recommend that the Planning Board approve an appropriation of $7,010,000 in 2014 from the Open Space Fund CIP as outlined in this memorandum and related attachments; and recommend that $343,000 be appropriated from the city's Lottery Fund CIP in 2014."

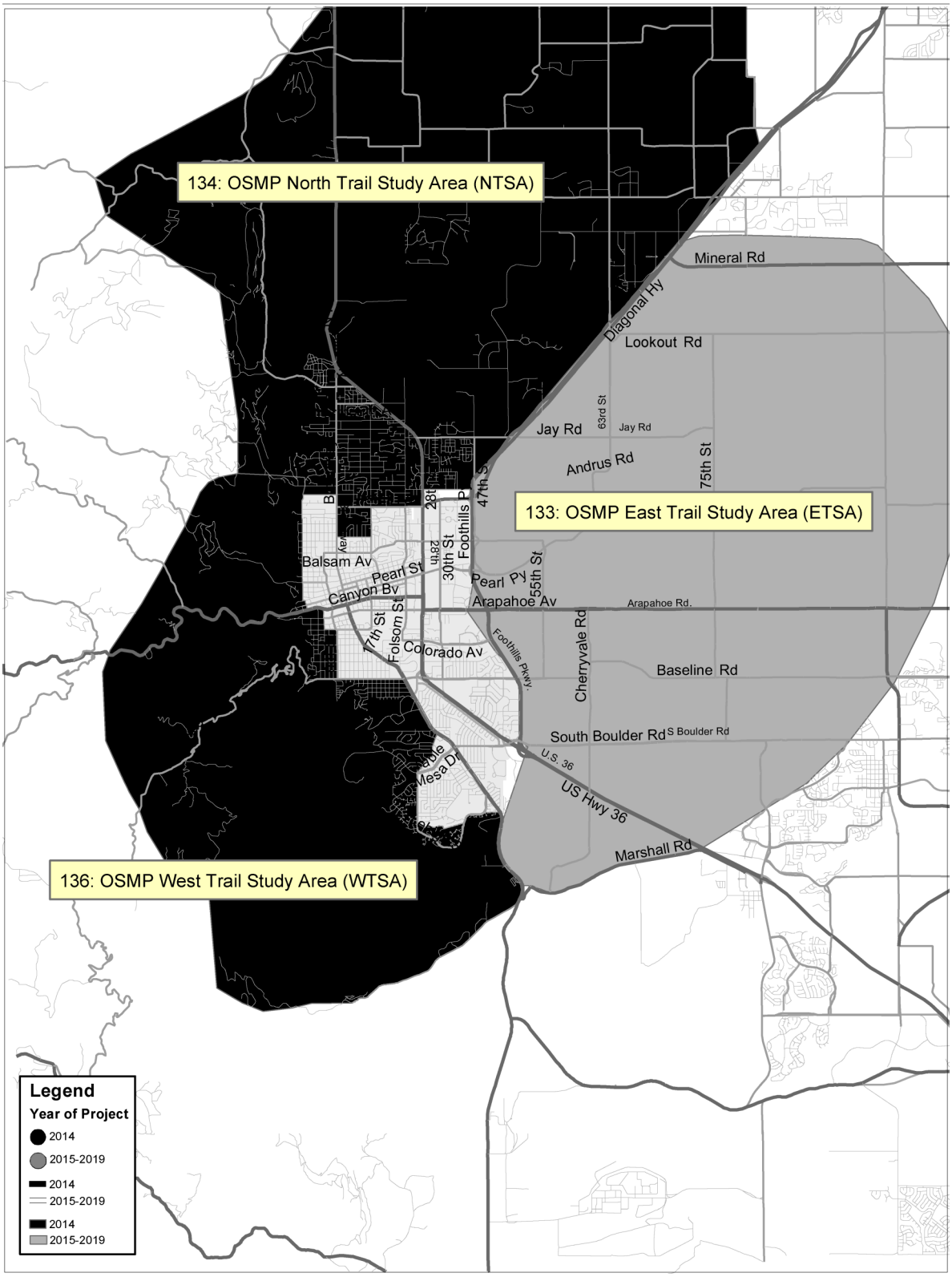
Table 8-1: 2014-2019 Funding Summary By Department

OPEN SPACE AND MOUNTAIN PARKS

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
OSMP - Historical Structures & Trails - Stabilization & Restoration	$ -	$ 343,000	$ 355,300	$ 355,300	$ 355,300	$ 355,300	$ 355,300	$ 2,119,500	$ 343,000	$ -
OSMP North Trail Study Area (NTSA)	600,000	50,000	50,000	100,000	200,000	100,000	50,000	550,000	50,000.00	-
OSMP West Trail Study Area (WTSA)	3,319,486	500,000	550,000	550,000	450,000	600,000	50,000	2,700,000	619,486.00	-
Visitor Infrastructure - System Wide	-	350,000	300,000	250,000	200,000	200,000	500,000	1,800,000	-	-
OSMP East Trail Study Area (ETSA)	300,000	-	-	-	50,000	50,000	200,000	300,000	-	-
Subtotal	$ 4,219,486	$ 1,243,000	$ 1,255,300	$ 1,255,300	$ 1,255,300	$ 1,305,300	$ 1,155,300	$ 7,469,500	$ 1,012,486	$ -
Capital Maintenance										
OSMP ReRoute Flagstaff Trail bt Crow n Rock and Baseline	$ 120,000	$ 120,000	$ -	$ -	$ -	$ -	$ -	$ 120,000	$ -	$ -
OSMP ReRoute Green Mountain West Ridge	60,000	60,000	-	-	-	-	-	60,000	-	-
OSMP ReRoute Saddle Rock Trail	65,000	65,000	-	-	-	-	-	65,000	-	-
OSMP ReRoute Ute and Range View Trails	65,000	65,000	-	-	-	-	-	65,000	-	-
Subtotal	$ 310,000	$ 310,000	$ -	$ -	$ -	$ -	$ -	$ 310,000	$ -	$ -
Land and Asset Acquisition										
Mineral Rights Acquisition	$ -	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 600,000	$ -	$ -
OSMP Real Estate Acquisition Program	-	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	-	-
Water Rights Acquisition	-	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	-	-
Subtotal	$ -	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 5,700,000	$ 34,200,000	$ -	$ -
New Capital Project										
South Boulder Creek Instream Flow	$ 2,400,000	$ 100,000	$ 150,000	$ 2,000,000	$ -	$ -	$ -	$ 2,250,000	$ 150,000	$ -
Subtotal	$ 2,400,000	$ 100,000	$ 150,000	$ 2,000,000	$ -	$ -	$ -	$ 2,250,000	$ 150,000	$ -
Total	**$ 6,929,486**	**$ 7,353,000**	**$ 7,105,300**	**$ 8,955,300**	**$ 6,955,300**	**$ 7,005,300**	**$ 6,855,300**	**$ 44,229,500**	**$ 1,162,486**	**$ -**

City of Boulder Captial Improvement Projects, 2014 - 2019

Open Space and Mountain Parks



Project Name: Mineral Rights Acquisition

Project at a Glance

Project Type:	Land and Asset Acquisition		
Department:	Open Space & Mountain Parks	**Subcommunity:**	System-wide
Project Number:	935000	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	N/A

Project Description

This on-going program provides funding to purchase underlying mineral interests from private owners or others as they become available on the real estate market. Many of these interests in minerals, gas, oil and aggregates were severed from the lands before properties were purchased by the City and could cause future management issues. Funds also provide for research, mapping and analyzing potential acquisitions. This project is for an ongoing funding program. In 2014, $100,000 will be allocated for acquisition of mineral rights. The Mineral Rights Acquisition program provides funding to purchase underlying minerals as they become available. No mineral rights have been acquired in recent years that have been purchased separate from land purchases because of unavailability on the market. Funds not expended in one year are carried over to the next. In 2013, $261,184 of unexpended mineral rights acquisition funds were carried over from 2012 to 2013. In addition, should water rights or real property become available to purchase and funds allocated for that purpose are insufficient, mineral rights acquisition funds may be utilized to make up the deficiency. The definition of a CIP project includes "the purchase of the physical assets of the community". By purchasing the rights to the mineral, the city is purchasing a physical asset.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Annual funding is approved by both the Open Space Board of Trustees and City Council.

Relationship with Other Departments

The Open Space & Mountain Parks department works cooperatively with other City Departments, primarily Parks and Recreation, Utilities and Transportation. The department also works with and promotes inter-governmental cooperation with national, state and local conservation and Open Space programs, such as Boulder County Open Space, Jefferson County Open Space, Louisville, Lafayette and Longmont, Colorado Open Space Alliance (COSA), GOCO, Colorado Department of Natural Resources, CDOW and others.

Change from Past CIP

None

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($600,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund	$0	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000
Total Funding Plan	**$600,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Open Space Fund

Additional Annual O&M Description:

Included in annual appropriations for operations

Project Name: OSMP - Historical Structures & Trails - Stabilization & Restoration

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Open Space & Mountain Parks	**Subcommunity:**	Area III
Project Number:	730000	**BVCPArea:**	Area III
CEAP Required:	Yes	**Map Number:**	0
		CEAP Status:	As appropriate

Project Description

Many historic structures and visitor infrastructure features on OSMP are in need of stabilization, reclamation, rehabilitation or replacement. Focus for 2014 will be on structures in the West Trail Study Area (WTSA). This will be the second year of a planned seven year implementation period for projects identified in the WTSA Plan. Historic site assessments and related stabilization, reclamation and rehabilitation will be conducted on historic structures on Flagstaff Summit and other areas in the WTSA area. In addition, major maintenance and restoration projects will be completed on the historic trails system that was largely constructed by the Civilian Conservation Corps (CCC) or by citizen use. Additionally, renovation of various trail heads will be undertaken. Related efforts will continue across this landscape over the planning period. This project is for an ongoing funding program. Projects worked on in 2013 included interpretive signs to highlight area's history per the West Trail Study Area Plan including the South Mesa Trailhead and Flagstaff cultural districts. Projects anticipated for 2014 and beyond include Viele House basement repair/mitigation; Hartnagle House repair/stabilization; interpretive signs for the Flagstaff Historic Cultural District; and repair/stabilize historic/cultural structures and sites as necessary.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Projects are approved by the OSBT through the public process. Projects whose scope requires a CEAP are also approved by City Council under the CEAP call-up provision. In addition, the public has input via email and public meetings in the trail study area planning process.

Relationship with Other Departments

Where appropriate OSMP coordinates with City Parks and Recreation, County transportation and CDOT concerning access issues in this area. In addition, for this project OSMP will coordinate with County Planning.

Change from Past CIP

None

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($2,462,500)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Lottery Fund	$343,000	$343,000	$355,300	$355,300	$355,300	$355,300	$355,300
Total Funding Plan	**$2,462,500**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $2,000 **Funding Source:** Open Space Fund

Additional Annual O&M Description:

Open Space & Mountain Parks allocates funds from its operating budget each year for maintenance.

Project Name: OSMP East Trail Study Area (ETSA)

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Open Space & Mountain Parks	**Subcommunity:**	Area III
Project Number:	843080	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	133
		CEAP Status:	As appropriate

Project Description

The ETSA contains approximately 10,900 acres and includes the eastern quadrant of the Boulder Valley and extends from SH 119 / Diagonal south to SH 36. It includes the Dry Creek, Whiterocks and tallgrass Prairie East sub-areas. The Plan will delineate a small number of new trails, designation and major maintenance for some undesignated trails and closure and reclamation of other undesignated trails, trail head improvements and upgraded and/or additional regulatory, way-finding and interpretive signs. The Plan will be implemented starting in 2019 with full implementation taking up to ten years. In 2014, $0 will be spent but full implementation may cost as much as $500,000.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

It has not been determined, at this time, how the ETSA Plan will be developed. In any case, there will be ample opportunity for the public to give input via email and public meetings.

Relationship with Other Departments

Where appropriate OSMP coordinates with City Parks and Recreation, County transportation and CDOT concerning access issues to this area.

Change from Past CIP

No change

Estimated Total Cost

Project Cost

Planning	$0
Acquisition	$0
Construction	$300,000
Total Project Cost	**$300,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$300,000
Funding Total	($300,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund	$0	$0	$0	$0	$50,000	$50,000	$200,000
Total Funding Plan	**$300,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $2,000 **Funding Source:** Open Space Fund

Additional Annual O&M Description:

Monitor, maintain,rehabilitate trails when needed

Project Name: OSMP North Trail Study Area (NTSA)

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Open Space & Mountain Parks	**Subcommunity:**	Area III
Project Number:	843070	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	134
		CEAP Status:	As appropriate

Project Description

The NTSA encompasses approximately 9,500 acres and includes the North Foothills area north of Lee Hill Road and the Boulder Valley Ranch area extending east to SH 119 / Diagonal. The Plan will delineate a small number of new trails, designation and major maintenance for some undesignated trails and closure and reclamation of other undesignated trails, trail head improvements and upgraded and/or additional regulatory, way-finding and interpretive signs. The Plan will be implemented starting in 2015 with full implementation taking up to ten years. In 2014, $50,000 will be spent on planning and natural resource inventory efforts for the NTSA.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

It has not been determined, at this time, how the NTSA Plan will be developed. In any case, there will be ample opportunity for the public to give input via email and public meetings.

Relationship with Other Departments

Where appropriate OSMP coordinates with City Parks and Recreation, County transportation and CDOT concerning access issues to this area.

Change from Past CIP

Decrease in funding

Estimated Total Cost

Project Cost

Planning	$0
Acquisition	$0
Construction	$600,000
Total Project Cost	**$600,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$600,000
Funding Total	($600,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund	$50,000	$50,000	$50,000	$100,000	$200,000	$100,000	$50,000
Total Funding Plan	**$600,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $2,000 **Funding Source:** Open Space Fund

Additional Annual O&M Description:

Monitor, maintain, rehabilitate trails when needed

Project Name: OSMP Real Estate Acquisition Program

Project at a Glance

Project Type:	Land and Asset Acquisition		
Department:	Open Space & Mountain Parks	**Subcommunity:**	System-wide
Project Number:	720000	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	N/A

Project Description

This project is to acquire additional acres of open space, subject to available funding, within the BVCP Area III as well as the areas in the Northern Tier and in Jefferson County as approved by the OSBT and City Council. Funding is provided from the projected restricted Open Space sales tax revenue. The project includes funding for survey, appraisal, professional fees and related acquisition and immediate management costs. This project is for an ongoing funding program. In 2014, $5,400,000 will be allocated to acquisition of real property. During 2013, the Granite/Opal and Joder/Cox properties were purchased. These acquisitions met the following open space goals: preservation of natural areas, water resources and land for passive recreation; utilization of land to prevent encroachment on floodplains; and preservation of land for its contribution to the quality of life of the community. Operating costs are budgeted in the operating budget of OSMP.

Increase in funding: On May 7, 2013 Council approved an update to OSMP's Acquisition Plan. Council gave guidance to pursue the Action Plan funding level as described in the Acquisition Plan. The Action Plan funding level requires increasing the OSMP Real Estate Acquisition Program from $3.4 million per year to $5.4 million per year.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [ ] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Specific purchases are recommended by the Open Space Board of Trustees and approved by City Council.

Relationship with Other Departments

The Open Space & Mountain Parks department works cooperatively with other City Departments, primarily Parks and Recreation, Greenways, Transportation, Utilities and Planning. The department also works with and promotes inter-governmental cooperation with national, state and local conservation and Open Space programs, such as Boulder County Open Space, Louisville, Lafayette, Superior and Longmont, Colorado Open Space Alliance (COSA), GOCO, Colorado Dept of Natural Resources, CDOW and others including the Trust for Public Lands, The Conservation Fund and The Nature Conservancy.

Change from Past CIP

Increase in funding. See Project Description.

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($32,400,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund	$0	$5,400,000	$5,400,000	$5,400,000	$5,400,000	$5,400,000	$5,400,000
Total Funding Plan	**$32,400,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Open Space Fund

Additional Annual O&M Description:

OSMP maintenance costs are primarily related to visitation and visitor infrastructure. Acquisition of land does not necessarily increase operating costs at a significant level. Immediate needs are addressed with CIP acquisition funds. These needs are identified to Council at the time the acquisition is approved. Visitor infrastructure improvements are identified in the respective TSA plan. Funding for these improvements is allocated from OSMP's visitor infrastructure CIP. Operating costs are allocated from the OSMP operating budget. Neither the VI CIP allocation nor operating budget necessitate significant increases year to year.

Project Name: OSMP ReRoute Flagstaff Trail bt Crown Rock and Baseline

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Open Space & Mountain Parks	**Subcommunity:**	Area III
Project Number:	843061	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	136
		CEAP Status:	

Project Description

The portion of Flagstaff Trail between Upper Crown Rock and the Baseline picnic area will be rerouted to the north side of Flagstaff Drive in order to eliminate two Flagstaff Drive crossings. Baseline picnic area will continue to be served with a spur from the trail. In-corridor maintenance will be done along the entire length of the trail to improve its sustainability. This reroute will improve delineation of climbing and bouldering access around Upper Crown Rock and Contact Corner by consolidating a network of undesignated trails.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The West Trail Study Area Plan had a large amount of public input during its development by the Community Collaborative Group (CCG). In addition considerable public input was taken via email and public meetings that led to its adoption.

Relationship with Other Departments

For this project OSMP will coordinate with Boulder County Transportation.

Change from Past CIP

New in 2014

Estimated Total Cost

Project Cost

Planning	$20,000
Acquisition	
Construction	$100,000
Total Project Cost	**$120,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$120,000
Funding Total	($120,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund	$0	$120,000	$0	$0	$0	$0	$0
Total Funding Plan	**$120,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: OSMP ReRoute Green Mountain West Ridge

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Open Space & Mountain Parks	**Subcommunity:**	Area III
Project Number:	843064	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	136
		CEAP Status:	

Project Description

Reroute trail so houses are not seen from the trail by transitioning to the north side of the ridge, then bring it back to the south slope of Green Mountain, terminating at the current intersection with Ranger Trail. Close and reclaim the current trail. The planning phase of this project will cost around $10,000 while actual construction will run $50,000.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The West Trail Study Area Plan had a large amount of public input during its development by the Community Collaborative Group (CCG). In addition considerable public input was taken via email and public meetings that led to its adoption.

Relationship with Other Departments

No other city departments are affected by this project.

Change from Past CIP

New in 2014

Estimated Total Cost

Project Cost

Planning	$10,000
Acquisition	$0
Construction	$50,000
Total Project Cost	**$60,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$60,000
Funding Total	($60,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund	$0	$60,000	$0	$0	$0	$0	$0
Total Funding Plan	**$60,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: OSMP ReRoute Saddle Rock Trail

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Open Space & Mountain Parks	**Subcommunity:**	Area III
Project Number:	843062	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	136
		CEAP Status:	

Project Description

The reroute will serve the following climbing access points with either a spur or switchback: bottom of Spy, top of Spy, exit of Baker's Way, start of North Arete, rescue spot A, top of the 1st and 2nd Flatiron trial and Saddle Rock View. Many undesignated trails in the area will be closed and restored.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The West Trail Study Area Plan had a large amount of public input during its development by the Community Collaborative Group (CCG). In addition considerable public input was taken via email and public meetings that led to its adoption.

Relationship with Other Departments

No other city departments are affected by this project.

Change from Past CIP

New in 2014

Estimated Total Cost

Project Cost

Planning	$10,000
Acquisition	
Construction	$55,000
Total Project Cost	**$65,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$65,000
Funding Total	($65,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund	$0	$65,000	$0	$0	$0	$0	$0
Total Funding Plan	**$65,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: OSMP ReRoute Ute and Range View Trails

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Open Space & Mountain Parks	**Subcommunity:**	Area III
Project Number:	843063	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	136
		CEAP Status:	

Project Description

A single trail will begin at Realization Point and split into the Ute and Range View trails. The segment of the Ute trail will be restored so that it meets accessibility guidelines.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The West Trail Study Area Plan had a large amount of public input during its development by the Community Collaborative Group (CCG). In addition considerable public input was taken via email and public meetings that led to its adoption.

Relationship with Other Departments

For this project OSMP will coordinate with the City's Accessibility staff.

Change from Past CIP

New in 2014

Estimated Total Cost

Project Cost

Planning	$10,000
Acquisition	
Construction	$55,000
Total Project Cost	**$65,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$65,000
Funding Total	($65,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund	$0	$65,000	$0	$0	$0	$0	$0
Total Funding Plan	**$65,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: OSMP West Trail Study Area (WTSA)

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Open Space & Mountain Parks	**Subcommunity:**	Area III
Project Number:	843060	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	136
		CEAP Status:	As appropriate

Project Description

The WTSA encompasses approximately 11,300 acres and lies west of the city limits and extends from Eldorado Springs Drive north to Lee Hill Road. The Plan for this TSA has been adopted by City Council. The adopted plan lists over 100 projects including new trails, designation and major maintenance for some undesignated trails and closure and reclamation of other undesignated trails, trail head improvements and upgraded and/or additional regulatory, way-finding and interpretive signs and restoration of both areas and trails. The implementation of the plan is scheduled to be done over a 7 year period. It was started in 2012. In 2014, $500,000 will be spent on over 10 trail and trailhead projects. Among the over ten individual tasks included in this project are: Redrocks Trail Improvements, Repair Amphitheater Trail, Rework Flagstaff Trail approaches to Flagstaff Drive, Redesign Fern Canyon, Shadow Canyon and Mesa junction and Reroute Long's Canyon.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The WTSA Plan had a large amount of public input during its development by the Community Collaborative Group (CCG). In addition considerable public input was taken via email and public meetings that led to its adoption. In addition, each major trail project will include additional opportunities for public input on that particular project.

Relationship with Other Departments

Where appropriate OSMP coordinates with City Parks and Recreation, County transportation and CDOT concerning access issues to this area.

Change from Past CIP

Increased funding

Estimated Total Cost

Project Cost

Planning	$0
Acquisition	$0
Construction	$3,319,486
Total Project Cost	**$3,319,486**

Unfunded Amount

Unfunded Amount

Project Cost Total	$3,319,486
Funding Total	($3,319,486)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund	$619,486	$500,000	$550,000	$550,000	$450,000	$600,000	$50,000
Total Funding Plan	**$3,319,486**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $2,000 **Funding Source:** Open Space Fund

Additional Annual O&M Description:

Monitor, maintain, rehabilitate trails when needed

Project Name: South Boulder Creek Instream Flow

Project at a Glance

Project Type:	New Capital Project		
Department:	Open Space & Mountain Parks	**Subcommunity:**	Area III
Project Number:	843005	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

This project implements an Intergovernmental Agreement (IGA) to establish and operate a mitigation plan to address aquatic resource impacts from an expansion of Gross Reservoir. Partners in the IGA include the City of Boulder, Denver Water and the City of Lafayette. The IGA creates a permanent 5,000 acre feet storage "environmental pool" to implement a year-round instream flow program for South Boulder Creek. In order to use the water in this "environmental pool" for instream flows, several ditch diversion structures need to be built on South Boulder Creek. These project components include the design and construction of diversion dam bypass structures to pass water down the creek and several stream gauges to administer instream flow waters. These structures are estimated to cost $400,000 with $150,000 set aside in 2013, $100,000 in 2014 and $150,000 in 2015. Denver Water is contributing approximately $4 million and Lafayette is contributing approximately $2.4 million toward the environmental pool. The project completion date is based on Denver Water's projection that it will begin construction of the expanded reservoir in 2016. This project is ongoing through 2016 at which point Gross reservoir is to be expanded and the City of Boulder's portion of the Gross Reservoir enlargement costs will be $2,000,000. Total CIP project cost for this project is $2,400,000.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

This item was heard by Boulder City Council and included public participation on January 5, 2010. Boulder City Council had a second public hearing for this project on February 16, 2010 where it approved the IGA's initiating this project.

Relationship with Other Departments

Open Space and Mountain Parks is working closely with Public Works on this. Public Works plans to line Wittemeier Ponds as its contribution to the project. Public Works will also use Colorado Big Thompson (CBT) units it has to help fill the environmental pool. Other partners for this project include Denver Water and the city of Lafayette.

Change from Past CIP

None

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	$2,400,000
Total Project Cost	**$2,400,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$2,400,000
Funding Total	($2,400,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund	$150,000	$100,000	$150,000	$2,000,000	$0	$0	$0
Total Funding Plan	**$2,400,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

Project Name: Visitor Infrastructure - System Wide

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Open Space & Mountain Parks	**Subcommunity:**	System-wide
Project Number:	843000	**BVCPArea:**	Area III
CEAP Required:	Yes	**Map Number:**	0
		CEAP Status:	As appropriate

Project Description

This program provides funding on a system-wide basis for capital maintenance and new construction on existing trails and trail heads, new trails and trail heads, other facilities that improve the visitor experience (e.g. safe road crossings), and capital restoration of areas where visitor impacts are high. This project is for an ongoing funding program. In 2014, $350,000 will be spent on planning and capital improvements on a system-wide basis. Project categories include several trail projects costing a total of $125,000, a sediment catchment basin on Flagstaff Drive at $50,000, a Forest Ecosystem Management Plan crew for $125,000 and cultural resource improvements at $50,000.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Projects are approved by the OSBT through the public process. Projects whose scope requires a CEAP are also approved by City Council under the CEAP call-up provision. In addition, the public has input via email and public meetings in the trail study area planning process.

Relationship with Other Departments

Where appropriate OSMP coordinates with City Parks and Recreation, County transportation and CDOT concerning access issues to this area.

Change from Past CIP

Decrease in funding

Estimated Total Cost

Project Cost

Planning
Acquisition
Construction

Total Project Cost

Unfunded Amount

Unfunded Amount

Project Cost Total
Funding Total

Total Unfunded $0

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund		$350,000	$300,000	$250,000	$200,000	$200,000	$500,000
Total Funding Plan							

Additional Annual Operations and Maintenance

Additional Annual O&M: $2,000 **Funding Source:** Open Space Fund

Additional Annual O&M Description:

Monitor, maintain, rehabilitate trails when needed

Project Name: Water Rights Acquisition

Project at a Glance

Project Type:	Land and Asset Acquisition		
Department:	Open Space & Mountain Parks	**Subcommunity:**	System-wide
Project Number:	930000	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	N/A

Project Description

This on-going project provides funding to purchase additional water rights from private owners or others for use on Open Space for agricultural and environmental purposes. Program funding includes water acquisitions in the Coal Creek, South Boulder, Boulder and Lefthand Creek watersheds. Funding will also be used for professional fees, legal and engineering fees, analysis and mapping necessary to manage and protect the water rights portfolio. Because of continuing wildlife and habitat concerns, the Open Space and Mountain Parks Resource Operations staff will continue to work with other City departments to assist in enhancing in-stream flow where possible. Senior water rights can exceed $100,000 per share. Additionally, the department has annual expenditures for the attorney fees and engineering fees that are required, as noted in this project's description, to defend the department's water rights portfolio. This project is for an ongoing funding program. In 2013, $200,000 will be allocated for acquisition of water rights. The Water Rights Acquisition program provides funding to purchase additional water shares for use on Open Space for agricultural and environmental purposes, as water becomes available in the Coal Creek, South Boulder, Boulder and Lefthand Creek water sheds. However, no water rights have been purchased in the past year. For 2013, there is $387,817 available for water rights acquisition comprised of $200,000 from the 2013 CIP and $187,817 carried over from unexpended 2012 water rights CIP. The definition of a CIP project includes "the purchase of the physical assets of the community". By purchasing the water rights, the city is purchasing a physical asset.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Annual funding is approved by both the Open Space Board of Trustees and City Council.

Relationship with Other Departments

The Open Space & Mountain Parks department works cooperatively with other City Departments, primarily Parks and Recreation, Utilities and Transportation. The department also works with and promotes inter-governmental cooperation with national, state and local conservation and Open Space programs, such as Boulder County Open Space, Jefferson County Open Space, Louisville, Lafayette and Longmont, Colorado Open Space Alliance (COSA), GOCO, Colorado Department of Natural Resources, CDOW and others.

Change from Past CIP

None

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($1,200,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Open Space Fund	$0	$200,000	$200,000	$200,000	$200,000	$200,000	$200,000
Total Funding Plan	**$1,200,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Open Space Fund

Additional Annual O&M Description:

Included in annual appropriations for operations

Funding Overview

.25 Cent Sales Tax Fund

With the renewal of this tax in November 2012, the revenues from this funding source were pledged "to fund Parks and Recreational services, development, renovation and refurbishment, and parkland acquisition for passive and active recreational uses" (.25 Cent Sales Tax ballot language).

As with any sales tax, the source of this fund is volatile. It is anticipated to maintain stability, in the near term, with the potential for minimal growth given improvement in the local economy. With the upcoming retirement of the bond debt associated with the .25 sales tax, the City must clarify how it will address resource needs when these additional funds become available in 2016.

Permanent Parks and Recreation Fund

The Permanent Parks and Recreation Fund consists of a .9 mill levy of assessed valuation of all taxable property in the city, gifts and donations to the fund, and proceeds from the sale of park or recreation property or equipment. The fund also includes revenues from a portion of a development excise tax assessed on each new residential unit constructed or annexed to the city except for those units that are designated as permanently affordable. The City Charter requires that the "…Fund shall not be used for any purpose other than the acquisition of park land or the permanent improvement of park and recreation facilities." (Charter Sec 161)

Lottery Fund

The Lottery Fund derives its revenue from the Conservation Trust Fund.

Capital Development Fund

The capital development fund accounts for citywide development impact fee collections allocated to growth-related parks and recreation facility development.

Boulder Junction Improvement Fund

The Boulder Junction Improvement Fund was created in 2011 for the Boulder Junction Key Public Improvements. Funding is provided from development related revenues generated in the Boulder Junction Area that will be reinvested into key public improvements in this area.

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects managed by DUHMD/PS. CIB funding is indicated by the following symbol:

Accomplishments and Highlights

Projects to be Completed in 2013:

- Park Shelter Replacements/Improvements: Upgrades, renovations or replacement of reservation pavilions, park shelters and shade structures. In 2013 shelters were installed at Pleasant View Sports Complex, Columbine Park and Foothills Dog Park
- Columbia Cemetery Upgrades/Enhancements: Upgrades and enhancements to the cemetery including headstone replacement, fence installation, irrigation upgrades and repairs to the irrigation ditch. 2013 improvements include fence installation and preliminary irrigation enhancements, repairs to the Anderson Ditch and headstone rehabilitation
- Existing Park and Recreation Facility Renovations: Improvements will include new play equipment, irrigation renovation, turf renovation, ADA accessibility improvements, play court resurfacing, and signage and landscape restoration. In 2013 parks renovated include Pineview Park, Harlow Platts Park and North Boulder Park
- Boulder Reservoir Infrastructure Improvements: In 2013, the Gateway Enhancement project was completed at the main entrance of the Reservoir on 51st Street. Enhancement included additional vehicle capacity, Aquatic Nuisance Species inspection area, new entry buildings, enhanced landscaping and site security measures
- Urban Parks Computerized Irrigation System Replacement and Playground and Irrigation System Replacement: These renovation projects continue to address water conservation and efficiencies for park facilities throughout the city
- Valmont City Park (Phase IA): The completion of Phase 1 includes the dog park renovations, interim disc golf course, remaining bridge structures, park shelters, and landscape and irrigation improvements for this major city park development effort
- ADA Compliance Improvements: New federal regulations require that local municipalities complete a full ADA audit of all park and recreation facilities and that a portion of facilities comply with ADA requirements by 2015. The Department has finalized the transition plan and initiated compliance improvements at several parks and recreation facilities such as Scott Carpenter Park, Columbine Park, Canyon Park and East Boulder Community Center
- Mesa Memorial Pocket Park: Planning staff have continued the planning and design process of the park by engaging the neighborhood in design development and completing the site plan for the park. Additionally, multiple agencies have partnered on the project, including the PLAY Boulder Foundation, CU College of Environmental

Urban Parks Irrigation Replacement underway

Design and Growing Up Boulder, to assist in the planning, fund raising and public engagement of this unique park

- Boulder Reservoir Site/Management Plan: This project continues to address programmatic, business and operational needs, as well as identify capital improvement programming, and monitoring efforts for long-term reinvestments, designed to enhance water quality, protect natural resources and optimize recreational opportunities. Currently, the project is in the data collection and public engagement phase, to review the current conditions with the community and begin identifying indicators and monitoring practices that will inform future management actions
- P&R Master Plan Update: Throughout 2013 the departmental master plan update is continuing with final acceptance by City Council anticipated in the fall of 2013. The update to the Department's master plan will provide vision, policy and strategies for meeting the needs of the community while responding to national trends in parks and recreation
- Flatirons Golf Course Playability Improvements: Completed the course bunker renovation/playability project at Flatirons Golf Course by installing 19 new sand bunkers and 42 new tee boxes
- s Neighborhood Park: The permitting and bidding of the project will be completed in 2013 with construction beginning in summer of 2013. Full build-out of the park will be complete by 2014.

Projects Expected for Completion in 2014:

- Park Shelter Replacements/Improvements: Arapahoe Ridge Park and Crestview Park will be renovated with turf and irrigation upgrades, ADA compliance and replacement of park amenities. Public involvement in the design phase will begin in 2013 with construction complete in 2014
- Park Shelter Replacements/Improvements: A new reservation pavilion will be installed at Harlow Platts Park to serve the park users by allowing for reservations and special events
- Pool Replastering: This project will allow replastering of specific pools based on an annual prioritization schedule by staff. Additionally, new replastering products are available that provide long-term maintenance and operational efficiencies
- Urban Parks Computerized Irrigation System Replacement: These renovation projects continue to address water conservation and efficiencies for park facilities throughout the city.

Projects Starting in 2014, but Not Completed:

- Pearl Street Mall Irrigation System Replacement: The existing irrigation system for the mall is in need of complete replacement to utilize new technology to conserve water and provide maintenance efficiencies. This project includes tree replacement. The

project will be phased over three years in order to minimize the disturbance to the community and visitors to the mall

- Flatirons Golf Course Irrigation System Replacement: Replacement of irrigation systems in fairways and rough to improve water efficiencies, cost effectiveness and turf management quality. The project will begin in 2013 and last through 2015.

Highlights of 2015-2019 Projects:

- Aquatics Facility Needs Assessment: This critical project will provide actions and recommendations for the city to continue to meet the needs of the community in aquatics facilities based on an extensive research and feasibility study. This project will engage many stakeholders throughout the community in an ongoing dialogue relative to existing facilities, trends and long term needs.

Relationship to Guiding Principles and Prioritization

CIP Guiding Principles:

The proposed projects identified in the 2014-2019 CIP are consistent with the Guiding Principles and the current Parks and Recreation Master Plan. The following criteria are applied when identifying and evaluating priority capital improvement projects.

- Safety/Compliance: The department will fund projects that address important deficiencies or safety and compliance concerns. Project may focus on annual infrastructure repair and replacement and/or refurbishment of park play equipment and amenities, irrigation systems, landscape and turf upgrades and facility improvements.
- Commitment: The department will fund projects that are required by law or a ballot initiative, or are in-process of development as part of a prior development agreement and/or are required to be completed within a specific period of time
- Efficiencies: The department will consistently seek efficiency improvements in both operational and capital investments. Projects will represent important operational and/ or maintenance efficiencies resulting in improved life cycles, cost efficiencies and savings in resources, energy or water usage (e.g., Flatirons Golf Course Irrigation System Replacement, Computerized Irrigation System)
- Revenue: The department will invest in facilities and programs that generate revenues to support valued recreational opportunities in the Boulder community. Projects will enhance the department's ability to earn revenue beyond initial investment and operational costs and may include possible collaboration/ partnership opportunities, leveraging outside funding sources.

Prioritization:

A principle objective of the current Parks and Recreation Master Plan Update focuses on maintaining existing parks and recreation facilities by “taking care of what we have.” As a result, the department has prioritized CIP projects based on meeting essential safety and compliance

considerations, as well as maintaining existing facilities through ongoing annual repair and refurbishment programs and life-cycle replacement programs of park playground equipment and irrigation infrastructure systems. In most cases, projects identified in the 2014-2019 CIP are intended to improve ongoing maintenance needs. Projects such as Pearl Street Mall Irrigation System Replacement and Playground and Irrigation System Replacements strive to improve long-term operational needs and protect existing assets while reducing annual maintenance costs.

A second important objective is to improve efficiencies in operational and capital investments resulting in extending life cycles of equipment and facilities whenever possible. The proposed CIP projects contribute to improving citywide energy efficiency and water conservation efforts addressing existing parks and recreational facilities. Projects are also consistent with the community's overall greenhouse gas and carbon footprint reduction objectives. Projects such as the Aquatics Facility Needs Assessment will address department wide efficiencies aimed at improving operational practices and seeking alternative funding opportunities needed to support the department's mission.

In addition, due to new federal ADA regulations, the department is required to respond to specific mandates and timelines to audit all parks and recreational facilities and to improve identified facilities to meet new federal ADA regulations, The ADA Compliance Improvements project will continue to address the new federal mandates and ensure the department remains in compliance with access issues for parks and recreational facilities.

Projects not in Master Plans:
None.

New Projects

- Violet Neighborhood Park: Violet Park is an undeveloped neighborhood park located along Violet Avenue east of Broadway in North Boulder. The parkland was acquired several years ago to satisfy the level of service requirements for the city to meet the needs of the growing community by providing park land and amenities to the North Boulder Sub community. This project will allow funding for the initial development of the park in conjunction with the planned Fourmile Canyon Creek Greenway improvements through this reach of the creek. The Greenways Division will provide funding for the multi-use path while Parks and Recreation funding will allow for the initial phase of development of the park. The city will realize an economy of scale financially and procedurally with both projects developing concurrently.
- Civic Area Improvements: One of the top priorities for the department in refurbishments and replacement of playgrounds is the Lumber Park at the Municipal Complex. This is the small children's play area just north of the Park Central Building on the south side of Boulder Creek at Broadway. For several years, the department has intended to replace this equipment with a new play area, but has deferred the project based on the outcome of the larger planning process for the Civic Area which is

anticipated to be complete in the fall of 2013. Currently, the Civic Area Plan has identified this location as a potential opportunity to revitalize and activate the Civic Area to provide play amenities for children and families while drawing users to the park through programming and events. A proposed design for the area was provided through a design competition associated with the Civic Area Planning and the Parks and Recreation Department will build upon this design by engaging the community in the final design and construction process in 2014.

Operation and Maintenance Impacts

The department prioritizes capital projects based upon maintaining existing assets and decreasing the maintenance backlog of the department's portfolio of parks and facilities. Therefore, the majority of projects included in the department's Capital Improvement Program will decrease maintenance costs as a result of replacement of aging infrastructure and efficiencies associated with new and improved facilities and systems. All of these projects will actually reduce the O&M costs over time. However, as the department fulfills commitments relative to long-term planning needs such as the Boulder Junction Pocket Park and Violet Neighborhood Park in the future, the department will need to further prioritize and explore funding opportunities to maintain these new facilities.

Deferred Projects, Eliminated or Changed Projects

As a result of limited capital funding for the proposed 2014-2019 CIP, in 2014-2015, funding previously set aside for the Playground and Park Irrigation System Replacement will support other critical systems needs such as the Pearl Street Mall Irrigation System Replacement and the Urban Parks Computerized Irrigation System Replacement, efforts that require critical timelines for completion.

Thunderbird Lake Plant Investment Fee: Following a successful pilot project, the Department has received direction to maintain Thunderbird Lake at historic water levels with the ability to add potable water as necessary. CIP funding will allow for water quality enhancements to the lake and improvements to Burke Park that enhance the lake. Throughout 2012 and 2013, the department worked collaboratively with adjacent neighbors, BVSD Horizons School and CU Design students to develop a program of amenities for the park illustrated through a recommended concept plan. The proposed improvements will benefit the lake ecology as well as the neighborhood in providing a park that will balance ecological considerations with recreation use.

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 2013 Master Plan includes a list of priority items to complete, based on various funding levels. Staff continues to evaluate deferred maintenance needs, including park sites and recreation facility needs and will be implementing 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 for the future. With a maintenance backlog estimated at over $27 million, 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 indications of a modest economic turnaround and the passage of 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.

To mitigate the impacts of limited funding, staff is:

- Working collaboratively with Facilities and Asset Management (FAM) workgroup to prioritize funding for deferred, major and ongoing facility maintenance
- Deferring low priority improvements and new capital projects that cannot be funded operationally
- Reevaluating work plans and investing in projects that mitigate ongoing maintenance and operational expenses
- Redirecting funding or accelerating projects to achieve energy efficiencies at recreation facilities.

The department has unfunded significant deficiency and high priority projects included in the current capital investment strategy program. Key projects include:

- System-wide compliance with federal standards for the Americans with Disabilities Act
- Increased capacity and additional facilities for youth and adult sports
- Expansion and enhancement of recreation centers that accommodate increased demand for weight rooms and fitness areas
- Boulder Reservoir infrastructure upgrades to increase operational efficiencies and improve public amenities
- Park infrastructure upgrades for the Civic Area and Pearl Street Mall
- Major parking lot renovations at key sports facilities
- New park development to achieve appropriate levels of service for planned neighborhood parks such as Violet Park and Heatherwood Park
- Infrastructure associated with Valmont City Park Phase 2 development.

Advisory Board Action

On March 18, 2013 the Parks & Recreation Advisory Board voted (6-0) to approve "2014 recommended expenditures from the Permanent Parks and Recreation Fund – fund 230 and to approve the recommended 2014 to 2019 Parks and Recreation Department Capital Improvement Program (CIP)."

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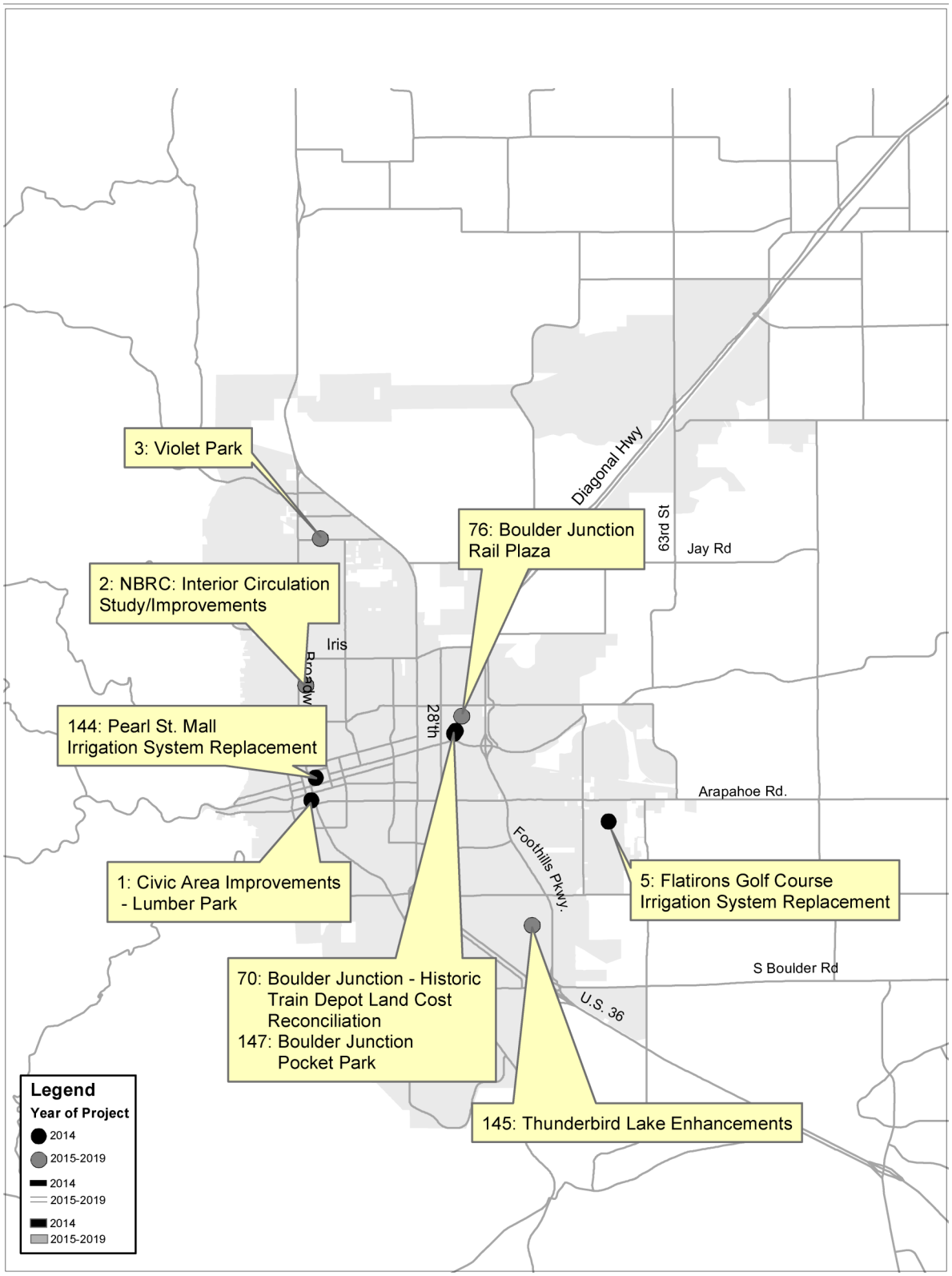
Table 9-1: 2014-2019 Funding Summary By Department

PARKS AND RECREATION

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Civic Area Improvements - Lumber Park	$ 300,000	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ -	$ -
Flatirons Golf Course Irrigation System Replacement	1,795,263	1,200,000	-	-	-	-	-	1,200,000	595,263	-
NBRC: Interior Circulation Study/Improvements	280,000	-	280,000	-	-	-	-	280,000	-	-
Thunderbird Lake Enhancements	250,000	-	250,000	-	-	-	-	250,000	-	-
Artificial Turf Field Installation	1,500,000	-	-	500,000	500,000	500,000	-	1,500,000	-	-
Lighting Ordinance Implementation	500,000	-	-	250,000	250,000	-	-	500,000	-	-
Playground and Park Irrigation System Renovation	1,360,300	-	-	530,300	530,000	300,000	-	1,360,300	-	-
Subtotal	$ 5,985,563	$ 1,500,000	$ 530,000	$ 1,280,300	$ 1,280,000	$ 800,000	$ -	$ 5,390,300	$ 595,263	$ -
Capital Maintenance										
ADA Compliance Improvements	$ 400,000	$ 100,000	$ 100,000	$ 100,000	$ -	$ -	$ -	$ 300,000	$ 100,000	$ -
Pearl Street Mall Irrigation System Replacement	1,500,000	500,000	550,000	-	-	-	-	1,050,000	450,000	-
Pool Replastering	230,000	100,000	75,000	-	-	-	-	175,000	55,000	-
Subtotal	$ 2,130,000	$ 700,000	$ 725,000	$ 100,000	$ -	$ -	$ -	$ 1,525,000	$ 605,000	$ -
Aquatic Facility Plan	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
Subtotal	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
Land and Asset Acquisition										
Boulder Junction - Historic Train Depot Land Cost Reconciliation	$ 787,405	$ 787,405	$ -	$ -	$ -		$ -	$ 787,405	$ -	$ -
Boulder Junction Rail Plaza	1,874,000	-	-	-	-	374,000	1,500,000	1,874,000	-	-
Subtotal	$ 2,661,405	$ 787,405	$ -	$ -	$ -	$ 374,000	$ 1,500,000	$ 2,661,405	$ -	$ -
New Capital Project										
Boulder Junction Pocket Park	$ 1,926,227	$ 281,539	$ -	$ 750,000	$ 350,000	$ 350,000	$ -	$ 1,731,539	$ 194,688	$ -
Violet Park	500,000	-	-	-	-	-	500,000	500,000	-	-
Subtotal	$ 2,426,227	$ 281,539	$ -	$ 750,000	$ 350,000	$ 350,000	$ 500,000	$ 2,231,539	$ 194,688	$ -
Transfer										
Tributary Greenways Program - Lottery	$ -	$ 150,000	$ 125,400	$ 125,400	$ 125,400	$ 125,400	$ -	$ 651,600	$ -	$ -
Subtotal	$ -	$ 150,000	$ 125,400	$ 125,400	$ 125,400	$ 125,400	$ -	$ 651,600	$ -	$ -
Total	**$ 13,303,195**	**$ 3,518,944**	**$ 1,380,400**	**$ 2,255,700**	**$ 1,755,400**	**$ 1,649,400**	**$ 2,000,000**	**$ 12,559,844**	**$ 1,394,951**	**$ -**

City of Boulder Captial Improvement Projects, 2014 - 2019

Parks & Recreation



Project Name: ADA Compliance Improvements

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Parks & Recreation	**Subcommunity:**	Multiple Subcommunities
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

In keeping with new Department of Justice ADA regulations, the Parks and Recreation Department was required to complete an audit of all park and recreational facilities by March 2012. The initial audit began in 2011 to assess up to 10 recreational facilities and 20 park sites and was completed in late 2012. The audit and assessment led to the development of a transition plan for the department that will prioritize the schedule for improvements for ADA compliance within parks and facilities. Upon completion of the plan, the department now has a comprehensive list, priorities and costs for the system-wide ADA improvements. Funding has then been set aside to complete required ADA improvements in order to meet new federal mandated deadlines for compliance.

In 2012, $100,000 was spent on initial ADA compliance measures. An additional total of $300,000 is allocated for FY 2014, 2015 and 2016 to complete the required improvements identified in the transition plan. In order to meet the federally mandated requirement of 33% compliance in parks and recreation facilities by 2015, the department has also programmed recently approved capital bond funding to address ADA compliance over the next three years on specific bond funded projects.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The department developed the ADA Transition Plan for parks, facilities and programs throughout 2012. In addition to internal City coordination among several departments, Parks and Recreation staff also engaged several community groups, facilitated an open house and presented information through the Parks and Recreation Advisory Board.

Relationship with Other Departments

The Parks and Recreation Department will continue to coordinate with FAM and Public Works during the implementation of the plan including monitoring and updating progress relative to other capital projects.

Change from Past CIP

Funding added in 2014

Estimated Total Cost

Project Cost

Planning	$30,000
Acquisition	$0
Construction	$370,000
Total Project Cost	**$400,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$400,000
Funding Total	($400,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Parks & Recreation .25 Cent Sales Tax Fund	$100,000	$100,000	$100,000	$100,000	$0	$0	$0
Total Funding Plan	**$400,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** .25 Cent Sales Tax

Additional Annual O&M Description:

The ADA compliance improvements have no significant impact on operating costs either positive or negative.

Project Name: Aquatic Facility Plan

Project at a Glance

Project Type:	Capital Planning Studies		
Department:	Parks & Recreation	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

Bsaed on the current Master Plan Update process for the Parks and Recreation Department, this project will assess the need for aquatic facilities in the City of Boulder by evaluating the demand, capacity and feasibility relative to aquatics within the community. Currently the Parks and Recreation Department has multiple indoor and outdoor pools. The Scott Carpenter and Spruce Pools are nearing a life-cycle age that will require an assessment to determine an appropriate course of action. The department will initiate a planning process to evaluate the need for aquatic facilities, determine the appropriate location and identify opportunities for leveraging outside funding sources, if a new aquatic facility is needed. Additionally, this study will explore community partnerships with private organizations, Boulder Valley School District and other stakeholders to adequately assess the opportunities and constraints related to aquatic facilities and use in the community.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [ ] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The planning process will include an extensive public process engaging key stakeholders, the community and allied services providers. The outreach effort will be identified in the scope of the plan.

Relationship with Other Departments

The Parks and Recreation Department will coordinate with other departments as appropriate including Public Works.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$100,000
Acquisition	$0
Construction	$0
Total Project Cost	**$100,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$100,000
Funding Total	($100,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Parks & Recreation .25 Cent Sales Tax Fund	$0	$100,000	$0	$0	$0	$0	$0
Total Funding Plan	**$100,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

This is a feasibility planning study and will not impact current operating budgets. The outcomes of the study might be distinct capital projects that will be evaluated based upon O&M costs among other criteria.

Project Name: Artificial Turf Field Installation

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Parks & Recreation	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

As an outcome of the department's current master plan process, the Parks and Recreation Department intends to assess the feasibility and costs for improving existing natural turf athletic fields and to replace existing turf fields with new synthetic turf in select park sites. The conversion of fields to artificial turf will increase the capacity of field use within the community by extending the season of use of the fields and allow more programmed uses resulting in improved revenues from field rentals and tournament play. Funding is set aside to conduct the needed feasibility studies and to design and construct priority field improvements at locatoins determined through the athletic field study.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The planning and design process will include input from park neighbors, user groups and the Parks and Recreation Advisory Board.

Relationship with Other Departments

Parks and Recreation will coordinate with Planning and Development Services, Utilities, Transportation and other departments as necessary.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$50,000
Acquisition	
Construction	$1,450,000
Total Project Cost	**$1,500,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,500,000
Funding Total	($1,500,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Permanent Parks & Recreation Fund	$0	$0	$0	$500,000	$500,000	$500,000	$0
Total Funding Plan	**$1,500,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Existing Park Operations Maintenance Funds

Additional Annual O&M Description:

O&M costs will be decreased as a result of the project. Annual maintenance includes adding new rubber to the field and sweeping as necessary.

Project Name: Boulder Junction - Historic Train Depot Land Cost Reconciliation

Project at a Glance

Project Type:	Land and Asset Acquisition		
Department:	Parks & Recreation	**Subcommunity:**	Crossroads
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	70
		CEAP Status:	

Project Description

This project was included in the list of Key Public Improvements as part of the Transit Village Area Plan (TVAP) - Implementation Plan. This project includes the reimbursement to City Housing for related portions of land acquisition costs for "non-housing" land uses associated with the Depot. Internal fund transfers to Housing would be anticipated to accomplish this from the appropriate revenue source. The acquisition is anticipated to occur in 2014.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

Relationship with Other Departments

The TVAP was a coordinated multi-department effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility/possible Transit-Oriented Development and future Northwest Rail facilities.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	$787,405
Construction	
Total Project Cost	**$787,405**

Unfunded Amount

Unfunded Amount

Project Cost Total	$787,405
Funding Total	($787,405)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Boulder Junction Improvement Fund	$0	$787,405	$0	$0	$0		$0
Total Funding Plan	**$787,405**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** TBD

Additional Annual O&M Description:

Future management and operation of Depot building/site is uncertain at this time.

Project Name: Boulder Junction Pocket Park

Project at a Glance

Project Type:	New Capital Project		
Department:	Parks & Recreation	**Subcommunity:**	Central Boulder
Project Number:		**BVCPArea:**	
CEAP Required:	No	**Map Number:**	147
		CEAP Status:	

Project Description

The Parks and Recreation Department has identified funding to address the future pocket park land acquisition and development associated with the Boulder Junction redevelopment project. This project is a long range infill redevelopment that will include civic public spaces and/or pocket parks that will require Parks and Recreation input, technical expertise and perhaps funding contributions. The proposed pocket improvement will include land acquisition for a 3/4-acre civic park, construction of Goose Creek multi-use path connection, grading and drainage improvements, hardscape pavers, retaining walls, landscape, irrigation and civic park amenities to support the park space.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The planning process will include an appropriate public process, which will be identified in the scope of the plan.

Relationship with Other Departments

The Parks and Recreation Department will coordinate with Public Works-Utilities/Transportation, Housing and Planning, and other departments, landowners and agencies as appropriate.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$60,000
Acquisition	$750,000
Construction	$1,116,227
Total Project Cost	**$1,926,227**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,926,227
Funding Total	($1,926,227)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Boulder Junction Improvement Fund	$194,688	$281,539	$0	$750,000	$350,000	$350,000	$0
Total Funding Plan	**$1,926,227**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $6,668 **Funding Source:** Not Determined

Additional Annual O&M Description:

Annual maintenance will include irrigation, mowing, trash removal, snow removal, maintenance of land

Project Name: Boulder Junction Rail Plaza

Project at a Glance

Project Type:	Land and Asset Acquisition		
Department:	Parks & Recreation	**Subcommunity:**	Crossroads
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	76
		CEAP Status:	

Project Description

This project was included in the list of Key Public Improvements as part of the Transit Village Area Plan (TVAP) - Implementation Plan. This project includes the land acquisition costs for the development of the Rail Plaza in 2019, pending coordination with private development in the location of the plaza.

Relationship to Guiding Principles

- [ ] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

Relationship with Other Departments

The TVAP was a coordinated multi-department effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility/possible Transit-Oriented Development and future Northwest Rail facilities.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	$374,000
Construction	$1,500,000
Total Project Cost	**$1,874,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,874,000
Funding Total	($1,874,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Boulder Junction Improvement Fund	$0	$0	$0	$0	$0	$374,000	$1,500,000
Total Funding Plan	**$1,874,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: Civic Area Improvements - Lumber Park

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Parks & Recreation	**Subcommunity:**	Central Boulder
Project Number:		**BVCPArea:**	
CEAP Required:	No	**Map Number:**	1
		CEAP Status:	

Project Description

One of the top priorities for refurbishments and replacement is the Lumber Park at the Municipal Complex. This is the small childrens play area just north of the Park Central Building on the south side of Boulder Creek at Broadway. For several years, the department has intended to replace this equipment with a new play area, but has waited on the outcome of the larger planning process for the Civic Area. Currently, the Civic Area Plan has identified this location as a potential opportunity to revitalize and activate the Civic Area to provide play amenities for children and families while drawing users to the park. A proposed design for the space was provided through a recent design competition and the Parks and Recreation Department will build upon this design by engaging the community in the final design and construction process.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

A thorough community engagement process has resulted from the larger Civic Area Planning process and additional community input will be realized through the specific design process of the play area.

Relationship with Other Departments

Various city departments wil be engaged including Public Works and Planning and Development Services.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	$300,000
Total Project Cost	**$300,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$300,000
Funding Total	($300,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Capital Development Fund	$0	$300,000	$0	$0	$0	$0	$0
Total Funding Plan	**$300,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $3,000 **Funding Source:** Accumulated Impact Fees

Additional Annual O&M Description:

Due to the enhancement of the area, maintenance costs will increase slightly on an annual basis to maintain the new amenities at a higher standard than the existing site.

Project Name: Flatirons Golf Course Irrigation System Replacement

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Parks & Recreation	**Subcommunity:**	Southeast Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	5
		CEAP Status:	

Project Description

The Flatirons Golf Course Master Plan was completed in 2010 and includes recommendations for capital and operational improvements. The master plan identifies capital costs and revenue streams for the Golf Course and input from the public and all city stakeholders (including Transportation, Planning and Finance) was included to ensure a common shared vision of Flatirons Golf Course. Funding will be used for the next two phases for the replacement of the irrigation systems for the fairways and roughs to improve water efficiency, cost effectiveness and turf management and quality. The department seeks to retain and/or increase current revenue streams as well as further departmental economic and environmental sustainability by enhancing the amenities at Flatirons Golf Course.
This project began in 2009 with the initial computerized system, main line and greens area irrigation system upgrades.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Public meetings were held during 2010 on potential improvements to the golf course and events center. The Parks and Recreation Advisory Board (PRAB) has been updated regularly with discussions throughout the master plan process as the strategic plan was finalized and options were evaluated. The funding for the irrigation upgrades corresponds over two fiscal years to minimize any negative impacts to playability and revenues.

Relationship with Other Departments

Parks and Recreation will coordinate with Planning, Finance, Transportation, CMO, FAM and any other identified departmental stakeholders.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$55,000
Acquisition	
Construction	$1,740,263
Total Project Cost	**$1,795,263**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,795,263
Funding Total	($1,795,263)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Permanent Parks & Recreation Fund	$595,263	$600,000	$0	$0	$0	$0	$0
Parks & Recreation .25 Cent Sales Tax Fund	$0	$600,000	$0	$0	$0	$0	$0
Subtotal All Funds	$595,263	$1,200,000	$0	$0	$0	$0	$0

Total Funding Plan **$1,795,263**

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Permanent Parks and Recreation Fund

Additional Annual O&M Description:

Proposed improvements will reduce maintenance costs by conserving irrigation water and reducing the staff time and labor to maintain the deficient existing system.

Project Name: Lighting Ordinance Implementation

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Parks & Recreation	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

Based on the departments lighting study, facilities have been identified that are not compliant with the city's lighting ordinance. Based on the study, many opportunities have been identified for energy conservation. The department will implement lighting retrofits in accordance with the city's lighting ordinance and to maximize energy efficiency. The department is accumulating funding in anticipation of replacement and retrofitting lighting fixtures. Criteria for determining the schedule for replacement will include cost, energy savings and safety. In 2016 and 2017, $500,000 will be spent on upgrades to exterior lighting throughout city parks and recreation facilities to meet local lighting ordinance requirements. This project does not include outside funding sources.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

City lighting ordinance compliance is required by 2017. No public process is anticipated. The public will be notified on a project by project basis.

Relationship with Other Departments

The department will coordinate with Planning, FAM, OEA, CAO, as needed or required.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$50,000
Acquisition	
Construction	$450,000
Total Project Cost	**$500,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$500,000
Funding Total	($500,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Permanent Parks & Recreation Fund	$0	$0	$0	$250,000	$250,000	$0	$0
Total Funding Plan	**$500,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** General Fund and .25 Cent Sales Tax Fund

Additional Annual O&M Description:

The implementation of the new fixtures will reduce energy consumption and maintenance costs as a result of the efficiency upgrades.

Project Name: NBRC: Interior Circulation Study/Improvements

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Parks & Recreation	**Subcommunity:**	North Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	2
		CEAP Status:	

Project Description

Funding for the interior space planning analysis, design and construction of improvements to the North Boulder Recreation Center is in response to community demand to improve circulation areas, weight room expansion and possible lobby concession area. These improvements are identified as program and efficiency needs to maintain facility standards. The resulting improvements will allow more flexible recreation use areas and improve pedestrian traffic flow throughout the recreation center

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

As the scope of work is further defined, the necessity of public input will be determined.

Relationship with Other Departments

Parks and Recreation staff will coordinate with FAM, Public Works/Utilities, Planning and any other identified department stakeholders as necessary.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$25,000
Acquisition	
Construction	$255,000
Total Project Cost	**$280,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$280,000
Funding Total	($280,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Permanent Parks & Recreation Fund	$0	$0	$280,000	$0	$0	$0	$0
Total Funding Plan	**$280,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

This project will improve the existing facility which will be incorporated into the existing O&M of the center.

Project Name: Pearl Street Mall Irrigation System Replacement

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Parks & Recreation	**Subcommunity:**	Central Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	144
		CEAP Status:	

Project Description

The irrigation system on the Pearl Street Mall is the original system that was installed in the 1970's and a complete renovation is needed. The new irrigation system will utilize new technology for customizing irrigation needs to specific areas and will be extremely efficient in water use resulting in water and energy savings as well as labor savings. This project meets many of the City's Sustainability goals as well as departmental goals. This project will begin in 2010 and be complete by 2015.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The department will coordinate with Pearl Street Mall merchants to schedule repair work and ample public notice will be provided.

Relationship with Other Departments

Parks and Recreation staff will coordinate with the Downtown and University Hill Management group and Public Works.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$5,000
Acquisition	$0
Construction	$1,495,000
Total Project Cost	**$1,500,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,500,000
Funding Total	($1,500,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Permanent Parks & Recreation Fund	$250,000	$300,000	$350,000	$0	$0	$0	$0
Lottery Fund	$200,000	$200,000	$200,000	$0	$0	$0	$0
Subtotal All Funds	$450,000	$500,000	$550,000	$0	$0	$0	$0

Total Funding Plan **$1,500,000**

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

The improvements to Pearl Street Mall irrigaiton will drastically reduce the annual O&M due to water savings through efficient irrigation infrastructure and reduce staff time in repairing existing infrastructure.

Project Name: Playground and Park Irrigation System Renovation

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Parks & Recreation	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

Upon completion of the 2006 master plan, the department committed to renovating playgrounds and irrigation systems. The specific playground and park irrigation system that will be renovated will be decided on an annual basis through an asset management program and communicated to the public. Projects are necessary to comply with goals and commitments identified in the department's master plan. The department evaluates and prioritizes needs based on criteria including safety and code compliance, age of the equipment, location in the city, and opportunities for efficiencies, collaboration or partnerships with other departments or the surrounding neighborhood. This project will begin with planning and design in 2016 and construction will be complete in 2018.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The department will conduct outreach to the neighborhood on the needs and design of the playground. Typically, two public meetings are conducted - an initial one to gather suggestions and a follow-up meeting to review design options. The project is posted on the department's website and regular updates are posted. A email group may also be created to update interested community members. The PRAB will be updated on a regular basis.

Relationship with Other Departments

Parks and Recreation will coordinate with Planning, Utilities, Water Conservation and Transportation as necessary.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$136,000
Acquisition	
Construction	$1,224,300
Total Project Cost	**$1,360,300**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,360,300
Funding Total	($1,360,300)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Permanent Parks & Recreation Fund	$0	$0	$0	$300,000	$300,000	$300,000	$0
Lottery Fund	$0	$0	$0	$230,300	$230,000	$0	$0
Subtotal All Funds	$0	$0	$0	$530,300	$530,000	$300,000	$0

Total Funding Plan **$1,360,300**

Additional Annual Operations and Maintenance

Additional Annual O&M: ($12,664) **Funding Source:** Lottery fund and .25 Cent Sales Tax Fund

Additional Annual O&M Description:

Improvements will result in decrease of maintenance from a water conservation and labor persepctive.

Project Name: Pool Replastering

Project at a Glance

Project Type:	Capital Maintenance		
Department:	Parks & Recreation	**Subcommunity:**	Multiple Subcommunities
Project Number:		**BVCPArea:**	
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

The Parks and Recreation Department manages and operates 11 pools within the city including indoor and outdoor leisure pools, lap pools and hot tubs. As part of ongoing maintenance and repairs to recreation facilities, the Department must prioritize and schedule the replastering of the pools in order to continue to provide safe, clean and accesible facilities for public use. The pools must be replastered every five years and the Department must schedule funds to achieve lifecycles of the plastering. This project will allow replastering of specifc pools based on an annual prioritization schedule by staff. Additionally, new replastering products are available that provide long-term maintenance and operational efficiencies. Pools are an integral component in generating reveunes for the city and allowing the Department to provide recreation programs and instruction to the community.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Ongoing facility maintenance - public process not necessary

Relationship with Other Departments

The Parks and Recreation Department will continue to coordinate with FAM in the annual prioritization of replastering projects and scheduling of facility maintenance to minimize disruption to the customers.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	$230,000
Total Project Cost	**$230,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$230,000
Funding Total	($230,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Permanent Parks & Recreation Fund	$55,000	$100,000	$75,000	$0	$0	$0	$0
Total Funding Plan	**$230,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

This project has no significant impact on O&M costs as it is repetitive maintenance on existing assets.

Project Name: Thunderbird Lake Enhancements

Project at a Glance

Project Type:	Capital Enhancement		
Department:	Parks & Recreation	**Subcommunity:**	Southeast Boulder
Project Number:		**BVCPArea:**	
CEAP Required:	No	**Map Number:**	145
		CEAP Status:	

Project Description

The Department has received direction to maintain Thunderbird Lake at historic water levels without the addition of potable water. This approach is based on consultants scientific receommendations through the pilot project that observed water levels, with acceptance by the Parks and Recreation Advisory Board and City Council. CIP funding will allow for water quality enhancements to the lake and improvements to Burke Park that enhance the lake. Throughout 2012 and 2013, the department worked collaboratively with adjacent neighbors, BVSD Horizons School and CU Design students to develop a program of amenities for the park illustrated through a recommended concept plan. The proposed improvements will benefit the lake ecology as well as the neighborhood in providing a park that will balance ecological considerations with recreation use.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

An extensive public outreach has resulted in a unique partnership team incorporating the University of Colorado, Horizons K-8 Charter School, adjacent neighbors and the Frasier Assisted Living Facility. A complete concept plan has been developed for the site that prioritizes enhancements to the park that will provide for interpretive projects and environmental education oportunites for the neighborhood and adjacent school.

Relationship with Other Departments

The Parks and Recreation Department has been working closely with staff from Public Works, Water Quality and Water Conservation to determine appropriate strategies, implementation and monitoring processes.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	$250,000
Total Project Cost	**$250,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$250,000
Funding Total	($250,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Parks & Recreation .25 Cent Sales Tax Fund	$0	$0	$250,000	$0	$0	$0	$0
Total Funding Plan	**$250,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

Proposed enhancements to the park will not significantly impact the existing O&M needs.

Project Name: Violet Park

Project at a Glance

Project Type:	New Capital Project		
Department:	Parks & Recreation	**Subcommunity:**	North Boulder
Project Number:		**BVCPArea:**	Area I
CEAP Required:	Yes	**Map Number:**	3
		CEAP Status:	

Project Description

Violet Park is an undeveloped neighborhood park located along Violet Avenue east of Broadway in North Boulder. The park was acquired several years ago to satisfy the level of service requirements for the City to meet the needs of the growing community by providing park land and amenities to North Boulder. This project will allow funding for the initial development of the park in conjunction with the planned Fourmile Canyon Creek Greenway improvements through this reach of the creek. The Greenway Project will provide funding for the multi-use path while the park funding will allow for initial phase of development of the park. By combining the projects, the City will realize an economy of scale with both projects developing concurrently. Funding for ongoing Operations and Maintenance costs has not yet been identified. It is anticipated that this will be identified prior to completion of the project in 2019.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

A formal CEAP process will be initiated in late 2013 that will engage all staff and community members located within the area of the proposed improvements.

Relationship with Other Departments

The project will engage Public Works and Planning and Development Services.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$30,000
Acquisition	
Construction	$470,000
Total Project Cost	**$500,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$500,000
Funding Total	($500,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Permanent Parks & Recreation Fund	$0	$0	$0	$0	$0	$0	$500,000
Total Funding Plan	**$500,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $2,529 **Funding Source:** Existing Parks O&M funding - .25 Cent Sales Tax Fund

Additional Annual O&M Description:

This cost is based upon the required O&M budget for the proposed development that will occur.

Funding Overview

Investment in the Transportation infrastructure is occurring through five separate funds listed below. An update to the Transportation Master Plan is underway and anticipated to be completed in 2014. The plan update will influence projects in future years Capital Improvements Programs (CIP's). Transportation also continues to implement projects funded by successful federal and state transportation grant applications. These one-time funding injections are beneficial; however, the longer term picture still needs an ongoing solution to cost escalation outpacing projected revenues. The Transportation Division is committed to timely and quality investment on CIP, Capital Bond Projects as well as federal and state grant projects. In addition, the division will add new projects identified through the Transportation Master Plan and is hopeful for the successful award of future federal transportation grants through the next Denver Regional Council of Governments (DRCOG) Transportation Improvement Program (TIP) Process that will start in late 2014.

Airport Fund

The Airport Fund accounts for the operations of the city-owned municipal airport and supports airport investment. It is supported primarily by lease revenue and entitlement funds from the Federal Aviation Administration (FAA).

Transportation Fund

The Transportation Fund accounts for construction, operation and maintenance of all major thoroughfares, local streets, bikeways, walkways and other transportation systems. The Transportation fund is primarily supported by several different sources: the .60% dedicated city sales tax, Highway Users Tax, County Road and Bridge funds, State Highway Maintenance and Landscape Funds, and Safe Accountable Flexible Efficient Transportation Equity Act - A Legacy for Users (SAFETEA-LU) federal funds.

Transportation Development Fund

The Transportation Development Fund accounts for development fees to be utilized for the construction of transportation capital improvements related to new development and growth. Funding for the Transportation Development Fund is provided primarily through the transportation excise tax (TET) revenues. The TET was instituted in the 1980s to fund transportation improvements related to growth and is paid by new commercial and residential development. In 2008, the Development Excise Tax rates and the percentage allocated to transportation were increased.

Boulder Junction Improvement Fund

The Boulder Junction Improvement Fund was created in 2011 for the Boulder Junction Key Public Improvements. Funding is provided from development related revenues generated in the Boulder Junction Area that will be reinvested into Key Public Improvements in this area. Transportation Excise and Transportation and General Fund Construction Use Taxes collected from development in the area will be used on these improvements in addition to other money budgeted in the Transportation CIP. Other department funding sources will also be used for these projects.

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects managed by Transportation. CIB funding is indicated by the following symbol:

Accomplishments and Highlights

Projects to be Completed in 2013:

- Broadway – 18th to Euclid: The Broadway/Euclid underpass and the associated paths and roadway improvements were open for use in fall of 2012 but the final landscaping was completed in 2013
- 28th Street Multi-Use Path: Colorado Avenue to Baseline Avenue
- Four-mile Multi-use Path: Safe Routes to School project from 28th Street to 26th Street
- Pearl Parkway at Junction Place: Traffic Signal
- Transit Stop: Improvements funded by CDOT FASTER funding at various locations throughout Boulder
- Foothills/Valmont: Operational Improvements
- Foothills Irrigation Replacement: US36 to Colorado Avenue
- 14th – Walnut to Canyon: Transit Center improvements
- 15th Street Canyon to Arapahoe: Streetscape improvements

14th Street Transit Center Improvements

Projects Expected for Completion in 2014:

- Pearl Parkway Multi-use Path TIP Project: North side of Pearl from 30th to 47th and Multi-way Boulevard on the north side of Pearl from 30th east to the railroad tracks
- Pearl Parkway Multi-way Boulevard: South side of Pearl from 30th east to the railroad tracks
- South Boulder Road and Manhattan Safe Routes to School project: Pedestrian improvements and a signal at the intersection
- Diagonal – 28th Street to East of 30th Street: Reconstruction and multi-modal Improvements

- 28th Street Improvements from Pearl to Valmont: including the completion of multi-use paths on both sides of 28th Street and the third bus/bike/right-turning vehicle lane
- 28th Street Multi-Use Path: The west side of 28th Street from Arapahoe to Mapleton
- Arapahoe Reconstruction: Folsom to 15th Street
- Junction Place: Bridge over Goose Creek
- 63rd Street widening: Between Arapahoe and Valmont where it has not already occurred including a structure replacement over the Leggett ditch
- Airport: Rehabilitation of Airport Parking Ramp, funded by CDOT.

Projects Starting in 2014, but not Completed:

- 28th Street Multi-Use Path: Path and On-Street Bicycle Facility Improvements from Iris to Yarmouth
- Baseline Underpass: East of Broadway and associated Multi-use Path and sidewalk Improvements.

Highlights of 2015-2019 Projects:

- 28th Street improvements: Baseline to Iris, planned to be completed by 2017
- TIP application process: Will begin in late 2014 with funding starting in 2015
- TIP local match and TMP Implementation: Consistent with Budget Guiding Principles and Priority Based Budgeting, a strategic funding line item in the CIP for allowing flexibility as the TMP Update is completed and to allow the leveraging of internal funding to apply for outside funding opportunities
- 29th/Valmont Safety Project with Federal Hazard Elimination Grant: Installation of a traffic signal and associated pedestrian improvements.

Relationship to Guiding Principles and Prioritization

CIP Guiding Principles:

The Airport Master Plan was updated in 2007, and its purpose is to assess current and future needs of the airport and provide a plan for facility and management improvements for the next 20 years. Recommended projects were identified and categorized into a Fiscally Constrained Plan, Action Plan, and a Vision Plan. Investments are focused on maintaining infrastructure and facilities. Furthermore, the Boulder Airport is one of a handful of general aviation airports in Colorado which is not supported by a general fund. The airport is supported through user fees that leverage external funding from federal and state sources for improvements and capital maintenance. In addition to flight training and recreational use, the airport provides an emergency response role and fulfills the demand of the aviation business sector such as weather research and aviation-related design and manufacturing that would move outside of Boulder without the airport.

All proposed projects in the 2014-2019 CIP are consistent with the Transportation Master Plan, last updated in 2008, and its budget guiding principles. An update to the Transportation Master Plan is currently underway. The CIP Guiding Principles share many of the same traits as the TMP Budget Guiding Principles including focusing on maintenance of the existing system, leveraging city funds with external sources and supporting community sustainability goals.

Transportation has focused increases in the operating budget to support ongoing operations and maintenance of the existing system as well as limited additions to the multimodal system. Transportation projects are very important improvements for advancing the community sustainability goals including:

- Environmental – create sustainable transportation systems that allow people travel choices and work towards lessening green house gas emissions and lowering transportation related energy consumption
- Social – Providing travel choices allows for enhanced community access for all income levels
- Economic – a safe and accessible transportation system that allows mobility and access are key to community economic vitality and the sustainable transportation system promotes tourism, and the efficient movement of goods and services are also important to economic vitality.

Each improvement is an incremental increase in the overall system that has a minor impact to the overall maintenance costs and additional funds are being added to the operating budget to cover increased maintenance expenses. All projects in the proposed CIP go towards maintaining and improving existing assets. Capital maintenance is the highest priority for funding and each project has elements of capital maintenance as existing infrastructure is removed and replaced as part of the improvements. There is flexibility in many of the on-going CIP projects. There is a project identified as TIP local match and TMP Implementation with funding from both the transportation fund and the transportation development fund to provide flexibility in adding high priority TMP projects and to use as match money when applying for grants and other leveraged funding opportunities.

Transportation projects meet legal mandates – an example is ADA requirements for transportation improvements - and state and federal requirements are followed in purchasing and contract administration for projects receiving state/federal grants. Public safety is also a key focus of all transportation projects – designs meet local, state and federal standards and some funding is specifically for hazard eliminations like the 29th/Valmont project.

Leveraging funding is prevalent in the transportation CIP and extensive outside money is acquired using the limited city transportation dollars; for example, the 2014-2019 CIP includes

approximately $7 million in leveraged projects and approximately $5.5 million (82%) of these costs are supported by external sources. Transportation also promotes community partnerships by working with other agencies such as RTD, Boulder County, CU and CDOT. Many projects are capital maintenance projects that improve maintenance needs, such as roadway reconstruction on the Diagonal from 28th to 30th Street, and maintenance efficiencies are incorporated into all of the project designs. Transportation coordinates projects with other departments including Utilities, Parks and Recreation, and OSMP, to implement improvements simultaneously to save construction and future maintenance costs. For example on a street reconstruction the maintenance and upgrade of underground utilities are coordinated with the reconstruction project. An example of this would be the Pearl Parkway North Side TIP Project, where major drainageway improvements to the Boulder Slough, waterline replacement and sanitary sewer replacement are all being integrated into the overall project. Transportation works to maintain adequate reserves and flexibility in the CIP and operating budgets to respond to emergencies and revenue fluctuations.

Prioritization:

The projects in the Transportation CIP are selected and developed to implement the TMP funding priorities, in the priority multimodal corridors, with a lens to projects that leverage external funding. The TMP prioritized a system of multimodal corridors in the city for investment in completion of the multimodal network. The term multimodal corridor has now been replaced with "complete street." The corridor not only includes the street itself but also facilities for the associated ¼ mile travel shed on either side. The top three priority corridors in order are:

- Broadway;
- 28th Street; and,
- Arapahoe Avenue.

The Transportation CIP has been developed to implement projects in these priority corridors.

Aligning with the policies of the Transportation Master Plan is an important aspect of the Transportation Budget's guiding principles. The TMP calls for developing a balanced multimodal system that offers transportation choices. In Council/Board budget processes, the following priorities and strategies have been used to develop the Transportation CIP:

- Maintain Integrity of Transportation Prioritization, in order:
    - Maintenance and Operations (Essential)
    - Multimodal System Expansion (Desirable)
    - Enhancements without system performance benefit (Discretionary)
- Achieve Sustainable Budget Over Time
- Continue Efficiency Improvements
- Maintain Leveraged Funded Projects

Boulder Junction Improvement Fund

As a part of the adopted Transit Village Area Plan (TVAP) (September 2007, Revised August 2010) and related 2007 TVAP Implementation Plan, several Key Public Improvements were identified for public funding with the following key guiding principles:

- Identify mechanisms to fairly distribute public improvement benefits and burdens among all area property owners
- Complete key connections and improvements needed ahead of new development
- The publicly-funded Key Public Improvements should benefit the City as a whole or implement the vision and goals for the TVAP area
- The proposed transportation connections in this area are consistent with the adopted TVAP Transportation Connections Plan and the TMP.

Projects Not in Master Plans:

City Yards Frontage Site: Preparation for Potential Pollard Relocation, *required by contract*.

New Projects

No new stand-alone projects have been added to the Transportation funds in the 2014-2019 CIP; however, there is funding capacity to assure safety improvements can be made at the US 36 and Violet intersection and multimodal connectivity can be provided with the CDOT wetland project in the Confluence Area.

Operation and Maintenance Impacts

The Transportation Division has been discussing system wide transportation operations and maintenance cost escalation with the Transportation Advisory Board and the City Council working towards a possible new revenue initiative in the fall of 2013 to help stabilize the funding sources for these items. Boulder is faced with the challenge of stagnant revenue and cost escalation with decreasing purchasing power to invest in its transportation system. The city is falling behind industry standards in maintenance and operations similar to the situation faced for federal and state infrastructure. Due to the increasing cost of materials, stagnating revenue and decreased purchasing power the city's ability to operate the community's transportation system is being eroded. In addition, the city cannot count on past success of obtaining federal funding for capital improvements and enhancements including capital maintenance to solve the problem. The Blue Ribbon commissions, the TAB, and two citizen task forces have recommended implementing a Transportation Maintenance Fee to address the maintenance of the city's transportation infrastructure.

While the expansion of the multimodal system (like construction of new multi-use path underpasses) has increased the maintenance needs slightly, it is a small increase compared to the needs of the overall system and most of the rise in O&M costs comes from the broader market increases in materials and labor. The limited and declining current capital and enhancement

dollars are used to leverage federal TIP dollars to pay for larger capital projects. Some projects have a primary focus of capital maintenance, such as the Diagonal reconstruction project between 28th and 30th Streets, and every capital project includes some element of capital maintenance as existing assets are removed and replaced.

Over time, the reduction in funds available for capital improvements has significantly slowed the city's capacity to expand the multimodal system. The transportation division has been adding the majority of transportation sales tax increases over the last few years into the maintenance and operations of the system. As advised by prior studies and task forces, a priority of transportation is to implement a more stable funding source than the current sales tax model for the operations and maintenance of the system, as maintenance needs of the system do not follow the economic ups and downs of sales tax revenue.

Deferred, Eliminated, or Changed Projects

Transportation Fund

- Funding for the 28th Street: Baseline to Iris improvements project was eliminated in 2018 and not funded in 2019 as project completion is anticipated in 2017
- The category for TIP Local Match was expanded to include TMP Implementation, as the TMP update is not final. Funding within this category was also increased each year from just over $700,000 per year to over $1 million per year. This line item in 2014 has the capacity to assure leveraged funded projects implement safety and multimodal improvements, at Violet and US 36 and the Confluence Area
- The TIP selection process is anticipated to occur in 2014, which will be aligned with the refined project priorities from the TMP update
- City yards frontage site preparation funding, previously reflected in 2015, was moved up to 2014 due to obligations within an option agreement with Pollard Motors.

Transportation Development Fund

- Funding for the 28th Street: Baseline to Iris improvements project was eliminated in 2018 and not shown in 2019 as project completion is anticipated in 2017
- The addition of a category and funding for TIP Local Match/TMP Implementation was added in anticipation of the outcome of TMP Implementation.

Boulder Junction Improvement Fund

The Boulder Junction Improvement Fund CIP did not experience substantive changes in specific transportation projects, however several on-going private developments and other unanticipated coordination issues continue to refine project implementation.

Unfunded Projects and Emerging Needs

Unfunded Projects:

The unfunded projects list in the Transportation Fund is informed by the Transportation Master Plan update currently in process and the already started or scheduled long-term area planning processes including the Civic Center Area Plan, the East Campus connection planning process and the planned East Arapahoe planning process to start later this year. The transportation project needs identified in the plans are currently unfunded. Also, Boulder Junction is a high priority for city leaders and the identified additional needs in this area are not currently funded beyond the high priority public improvements. Quiet zone implementation to allow for quieter railroad crossings continues to come up as a community desire and is not currently funded. An evaluation is currently underway to better understand the capital improvements needed for the city's railroad crossings to be Quiet Zone compliant. Capital maintenance funding continues to be a need as maintenance funding lags the system needs.

The 2008 TMP included four funding levels—Current Funding, Complete Streets, Action Plan, and Vision Plan. The estimated cost for reaching the Complete Streets level of enhancements and maintenance is $115.8 million beyond current funding, through 2025. This level of funding would include improved access to FasTracks facilities in various city areas, improved transit service, other high priority community connections and increased operations and maintenance funding of more than $1 million a year.

Emerging Needs:

The cost of operating and maintaining the existing system continues to rise, and takes up more of the available funding each year. This limits the funding available for capital enhancements to the system, and remains a significant unmet need. The 2011 Capital Bond and associated projects provided some relief through funding of significant deficiencies in maintenance of the system, but will not address on-going operational and maintenance needs which continue to grow.

In 2006, the Blue Ribbon Commission was created to help evaluate and recommend a sustainable financial future for the city. The Commission identified an expanding funding gap as the cost of providing city services is outpacing revenues. Potential sources of transportation funding were identified and suggested for further research. As a result, the Transportation Advisory Board prepared the Transportation Funding Report. This report suggested that the most viable revenue sources are a Transportation Maintenance Fee, Development Excise Taxes, and market based revenue opportunities such as advertising on transit shelters and other infrastructure in the public right-of-way. Increased funding for transportation could help complete the core transportation infrastructure identified in the Transportation Master Plan and also meet industry standards for maintenance and operation of the system. The Transportation Division returned to council in the 1st quarter of 2012 to continue the discussion of stabilizing long-term revenues for operations and maintenance and subsequently convened a taskforce to investigate additional transportation

finance mechanisms that council supported at the study session. Staff returned to council in late 2012 with recommendations from the taskforce and proceeded with a public outreach process which was also supported by council. In April 2013 council supported additional evaluation and consideration of a revenue source for Transportation for a possible ballot item as early as Nov 2013.

Advisory Board Action

On June 10, 2013 the Transportation Advisory Board voted (4-0) to "recommend the 2014-2019 Transportation Fund and Transportation Development Fund Capital Improvement Programs as presented."

Table 10-1: 2014-2019 Funding Summary By Department

PUBLIC WORKS - TRANSPORTATION

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
28th St (Baseline to Iris)	$ 4,673,993	$ 1,330,000	$ 1,330,000	$ 1,330,000	$ 1,330,000	$ -	$ -	$ 5,320,000	$ 2,391,000	$ -
Boulder Junction - Junction Pl Enhancements (Goose Creek to Bluff)	877,000	400,000	477,000	-	-	-	-	877,000	-	-
City Yards Frontage Site Preparation for Potential Pollard Relocation	1,225,000	1,225,000	-	-	-	-	-	1,225,000	-	-
Miscellaneous Development Coordination	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	50,000	-
Signal Maintenance and Upgrade	-	200,000	-	-	-	200,000	-	400,000	-	-
Valmont & 29th/Hazard Elimination	3,015,000	3,015,000	-	-	-	-	-	3,015,000	-	-
Subtotal	$ 9,790,993	$ 6,220,000	$ 1,857,000	$ 1,380,000	$ 1,380,000	$ 250,000	$ 50,000	$ 11,137,000	$ 2,441,000	$ -
Capital Maintenance										
Pedestrian Facilities - Repair, Replacement, ADA	$ -	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 3,774,000	$ -	$ -
Subtotal	$ -	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 629,000	$ 3,774,000	$ -	$ -
Capital Planning Studies										
Transportation Master Plan Study	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
Subtotal	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -
New Capital Project										
28th St. Bike/Pedestrian Improvements: Iris to Yarmouth	$ 2,224,000	$ 1,324,000	$ -	$ -	$ -	$ -	$ -	$ 1,324,000	$ 900,000	$ -
Baseline Underpass: Broadw ay to 28th	5,400,000	2,462,000	-	-	-	-	-	2,462,000	2,938,000	-
Bikew ay Facilities - Enhancements	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
Boulder Junction - Development Coordination	450,000	75,000	75,000	75,000	75,000	75,000	75,000	450,000	-	-
Pedestrian Facilities Enhancements-Missing Links, Crossing Treatments	-	75,000	75,000	75,000	75,000	75,000	75,000	450,000	-	-
TIP Local Match/TMP Implementation	-	800,000	1,300,000	1,300,000	1,300,000	1,800,000	1,800,000	8,300,000	-	-
Boulder Junction - Traffic Signal at Bluff Street and 30th Street	228,000	-	-	-	228,000	-	-	228,000	-	-
Boulder Junction - Traffic Signal at Junction Place and Valmont	304,000	-	-	-	304,000	-	-	304,000	-	-
TIP Local Match/TMP Implementation II	-	-	-	-	-	300,000	400,000	700,000	-	-
Subtotal	$ 8,606,000	$ 4,861,000	$ 1,575,000	$ 1,575,000	$ 2,107,000	$ 2,375,000	$ 2,475,000	$ 14,968,000	$ 3,838,000	$ -

Table 10-1: 2014-2019 Funding Summary By Department (Cont.)

PUBLIC WORKS - TRANSPORTATION (Cont.)

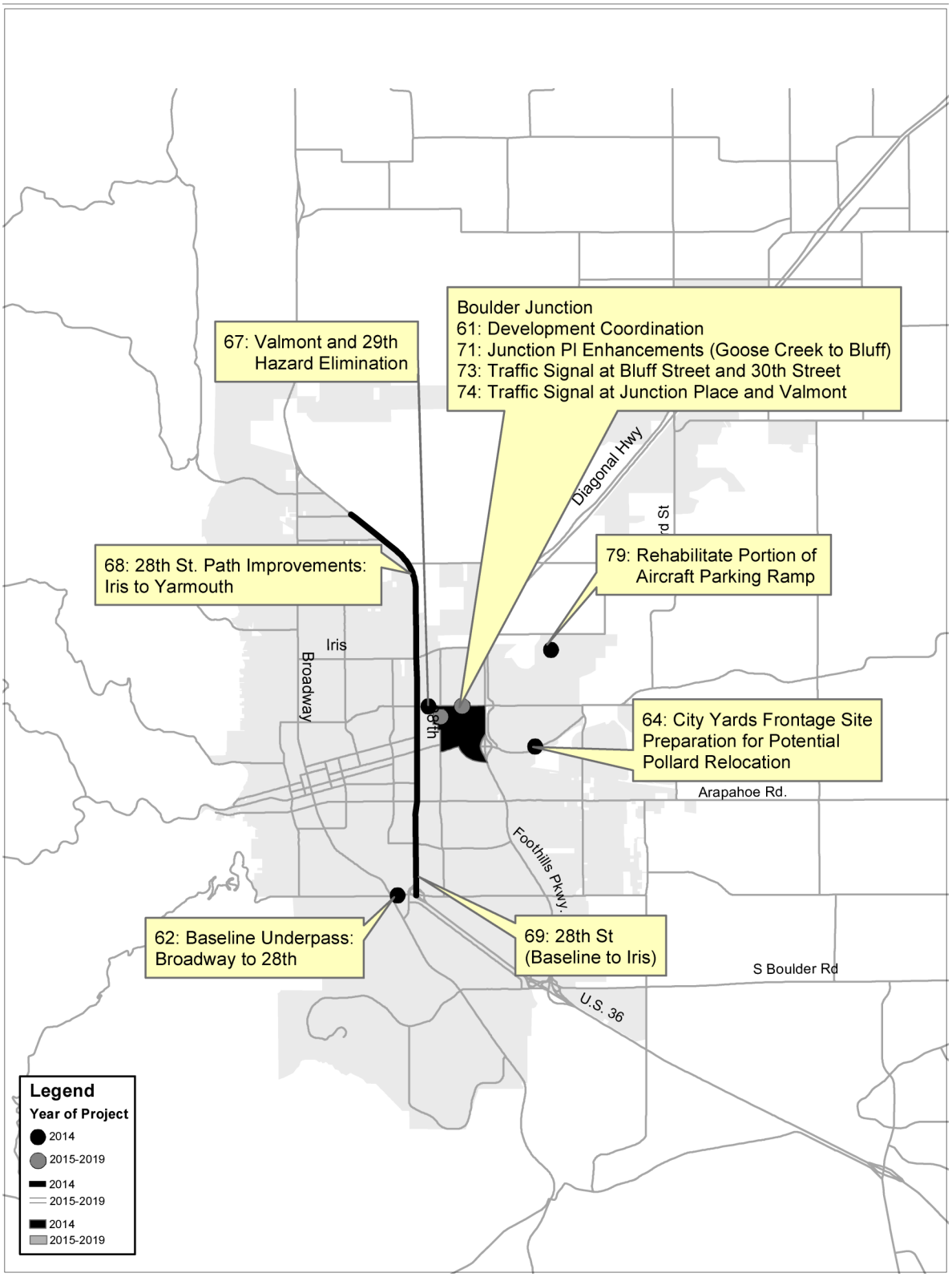
	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Transfer										
Boulder Junction Improvements - Transfer	$ -	$ 200,000	$ -	$ -	$ -	$ -	$ -	$ 200,000	$ -	$ -
Tributary Greenways Program - Transportation - Transfer	-	97,500	97,500	97,500	97,500	97,500	97,500	585,000	-	-
Subtotal	$ -	$ 297,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 785,000	$ -	$ -
Total	**$ 18,496,993**	**$ 12,107,500**	**$ 4,158,500**	**$ 3,681,500**	**$ 4,213,500**	**$ 3,351,500**	**$ 3,251,500**	**$ 30,764,000**	**$ 6,279,000**	**$ -**

PUBLIC WORKS - MUNICIPAL AIRPORT

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Maintenance										
Rehabilitate Portion of Aircraft Parking Ramp	$ 1,555,555	$ 1,555,555	$ -	$ -	$ -	$ -	$ -	$ 1,555,555	$ -	$ -
Subtotal	$ 1,555,555	$ 1,555,555	$ -	$ -	$ -	$ -	$ -	$ 1,555,555	$ -	$ -
Total	**$ 1,555,555**	**$ 1,555,555**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,555,555**	**$ -**	**$ -**

City of Boulder Captial Improvement Projects, 2014 - 2019

PW/Transportation & Municipal Airport



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Project Name: 28th St (Baseline to Iris)

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Transportation	**Subcommunity:**	Multiple Subcommunities
Project Number:	781743	**BVCPArea:**	Area I
CEAP Required:	Yes	**Map Number:**	69
		CEAP Status:	2001 - Baseline to Arapahoe / 2002 - Pearl to Iris

Project Description

The 28th Street (Baseline to Iris) funding is for the implementation of complete street elements for all modes of transportation on the 28th Street corridor between Baseline and Iris. Recommended improvements include: urban design, landscaping, and streetscape elements throughout the corridor; transit amenities including queue jumps, transit stops and site furniture; bicycle and pedestrian facilities including constructing multi-use paths; adding raised crossings at free right turn lanes; and traffic efficiency elements including adding left turn lanes at various intersections and widening the Boulder Creek Bridge.

Portions of the 28th Street corridor implementation completed to date include all of the south section from Arapahoe to Baseline. Portions of the north section completed from Pearl Street to Iris Avenue, include the intersections at Iris Ave., Pearl St. and Valmont - south to Bluff Street along with the installation of pedestrian crossings and bike/bus/right turning vehicle lanes in the vicinity of the intersections. The last 28th Street project completed was the installation of a multi-use path on the west side of 28th from Baseline to Colorado that was constructed in 2012-2013.

Implementation of a balanced multi-modal corridor, or "complete streets," transportation system is a focus area in the Transportation Master Plan and 28th Street from Iris to Arapahoe has been identified as the highest ranking transportation corridor, and 28th from Arapahoe to Baseline is the third highest ranking corridor in the city. The planning study and the CEAP for the southern section-Baseline to Arapahoe and the northern section-Pearl to Iris were completed and received City Council approval. Funding for the northern and southern sections began pre 1997 and will end in 2017 and has been combined with federal funding, the Transportation Development Fund, and Capital Bond funding. The improvements between Arapahoe and Pearl are based on the TMP and the BVRC connections plan. The project meets the sustainability goals by providing alternative travel choices that when used reduce congestion and green house gas emissions and reduces the demand for transportation related energy sources.

The next project planned in the 28th Street corridor is the "28th Street - Transit and multi-use path Improvements Project" from Pearl to Valmont beginning construction in 2013. Improvements to the multi-use path between Arapahoe and Mapleton on the west side of 28th Street will be funded with the Capital Bond - Transportation New Multi-Use Path Connections funding and these two projects will be combined. This project will be constructed with city funds only. Funding amounts from this funding source has anticipated costs that will be distributed as follows:
1. Planning: $ 125,000
2. Acquisition: $ 600,000
3. Construction: $ 1,700,000
This section of the 28th Street is anticipated to complete construction in 2014.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The CEAP for the southern section - Baseline to Arapahoe and the northern section - Pearl to Iris- have been approved by City Council. Any of the middle section improvements from Arapahoe to Pearl, will implement the Council approved BVRC Connections Plan.

Relationship with Other Departments

This project requires coordination with the Utility Division for utility upgrades, with RTD, CDOT, CU, Arts Commission, the Planning Department and the Real Estate Division and with adjacent developments.

Change from Past CIP

Money was deleted from 2018 as the project is anticipated for completion in 2017

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	**$4,673,993**

Unfunded Amount

Unfunded Amount

Project Cost Total	$4,673,993
Funding Total	($7,711,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Fund	$0	$860,000	$860,000	$860,000	$860,000	$0	$0
Transportation Development Fund	$2,391,000	$470,000	$470,000	$470,000	$470,000	$0	$0
Subtotal All Funds	$2,391,000	$1,330,000	$1,330,000	$1,330,000	$1,330,000	$0	$0

Total Funding Plan **$7,711,000**

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Transportation Fund Operating Budget

Additional Annual O&M Description:

Project may result in minimal incremental increases in on-going maintenance costs which will be programmed in the Transportation Fund budget.

Project Name: 28th St. Bike/Pedestrian Improvements: Iris to Yarmouth

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Transportation	**Subcommunity:**	North Boulder
Project Number:	781060	**BVCPArea:**	Area I
CEAP Required:	Yes	**Map Number:**	68
		CEAP Status:	Will be completed in 2013

Project Description

This project includes a 10-foot wide, bi-directional path on the west side of US 36/28th Street from Iris Avenue to Fourmile Canyon Creek, a bicycle/pedestrian bridge over Fourmile Canyon Creek, and on-street bike facility improvements from Iris to Yarmouth, including a bridge widening of the vehicular bridge over Four-mile Creek.

This project supports a primary goal of the Transportation Master Plan (TMP) for completing the City's grid-based Bike System to provide safe connections and the opportunity for bike travel throughout the city for all levels of riders. This project was identified as part of the FasTracks Local Optimization study that was incorporated into the overall TMP. The project meets the sustainability goals by providing alternative travel choices that, when used, reduce green house gas emissions and reduces the demand for transportation related energy sources.

The city received federal funding in the last DRCOG TIP cycle for the 2011 to 2014 funding years. This project includes $1,224,000 of external federal funding from the DRCOG TIP process and $1,000,000 of city funding. The city has also received federal funding for a separate project to construct an underpass at Wonderland Creek that is included in the Utility's CIP with a funding match from the flood utility. These two projects will be closely coordinated. This project design began in 2011 and is anticipated to complete construction in 2015.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

This project was submitted to TAB and Council as a Transportation Improvement Project (TIP) prior to submitting it to DRCOG for federal funding. Staff held a public meetings and will meet with adjacent property owners to acquire input for the project. A CEAP is will be completed in 2013 for this project.

Relationship with Other Departments

This project will be coordinated with Utilities for construction coordination of the two projects, utility relocations and drainage purposes, and Parks and Greenways at the Elks Park.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$524,000
Acquisition	$0
Construction	$1,700,000
Total Project Cost	**$2,224,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$2,224,000
Funding Total	($2,224,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Fund	$900,000	$1,324,000	$0	$0	$0	$0	$0
Total Funding Plan	**$2,224,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Transportation Fund Operating Budget

Additional Annual O&M Description:

Project may result in minimal incremental increases in on-going maintenance costs which will be programmed in the Transportation Fund budget.

Project Name: Baseline Underpass: Broadway to 28th

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Transportation	**Subcommunity:**	South Boulder
Project Number:	781059	**BVCPArea:**	Area I
CEAP Required:	Yes	**Map Number:**	62
		CEAP Status:	Will be completed in 2013

Project Description

This project constructs a grade separated crossing of Baseline Road east of Broadway (SH-93) and 10-foot wide, multi-directional path connections to the sidewalks at the location of the current pedestrian crossing signal, and a connection to the Skunk Creek path to the south including improving the sidewalk along Broadway adjacent to the Basemar Center. The project also constructs multi-use path and bicycle lanes on Baseline Road in the vicinity of the underpass. The project will provide 20 bicycle parking spaces (10 of the spaces covered). The underpass serves the University of Colorado on the north side and connects to retail and housing on the south side.

This project meets the Transportation Master Plan focus area and objectives of implementing a balanced multimodal-based transportation system that is usable, connected, and integrated. The underpass replaces the pedestrian signal that was installed to address an accident problem in the short term until the underpass, or long term solution, could be funded and built. The project meets sustainability goals by providing transportation alternatives, and when people use transportation alternatives to vehicles, it reduces green house gas emissions.

The city received Faster funding from CDOT for design of this project and additional CDOT funding for the resurfacing of Baseline in this area. The city also received federal funding in the last DRCOG TIP cycle for the 2011 to 2014 funding years. The outside funding total from the federal DRCOG TIP process is $4,046,000, state funding is $800,000, and the local funding match is $554,000. This project began design in 2011 and is anticipated to complete construction in 2015.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

This project was submitted to TAB and Council as a Transportation Improvement Project (TIP) prior to submitting it to DRCOG for federal funding. Staff will hold public meetings and meet with adjacent property owners to acquire input for the project. A CEAP will also be completed for this project. The project will be coordinated and designed with CU.

Relationship with Other Departments

This project will be coordinated with city and private utilities and with CU's facilities and utilities groups.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$1,440,000
Acquisition	$260,000
Construction	$3,700,000
Total Project Cost	**$5,400,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$5,400,000
Funding Total	($5,400,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Fund	$2,938,000	$2,462,000	$0	$0	$0	$0	$0
Total Funding Plan	**$5,400,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Transportation Fund Operating Budget

Additional Annual O&M Description:

Project may result in minimal incremental increases in on-going maintenance costs which will be programmed in the Transportation Fund budget.

Project Name: Bikeway Facilities - Enhancements

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Transportation	**Subcommunity:**	Multiple Subcommunities
Project Number:	781692	**BVCPArea:**	Areas I & II
CEAP Required:	No	**Map Number:**	
		CEAP Status:	

Project Description

The Bikeway facilities funding is an ongoing program for smaller bikeway facilities. The construction of bike facilities is included in almost all transportation CIP projects. This program provides additional funding for smaller bikeway projects and/or projects not specifically associated with other capital projects.

Projects constructed with this funding meet the Transportation Master Plan goal of developing an integrated multimodal transportation system. Projects will be consistent with the current TMP Bicycle System Plan and the projects are prioritized yearly. This program also allows for construction of opportunistic improvements and construction of other identified bike projects. Types of projects include providing missing links and enhanced crossings such as underpasses and overpasses, e.g., Boulder Creek/Boulder Community Hospital at 48th St. path.

In 2013, $125,000 is planned to be spent on the bridge crossing of South Boulder Creek - north of Valmont that is a portion of the southern confluence path connection. In 2014, the funds will be spent on design and construction of other sections of the confluence paths.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The Public Process for each project will vary. Some projects, depending on the complexity, may require a CEAP. A public meeting was held for the Confluence path projects as part of the CDOT wetlands mitigation in this same general area.

Relationship with Other Departments

This program is coordinated with other departments depending on the particular project. Currently projects are being coordinated with the Greenways program and the Open Space Dept. Additionally, the confluence path project will be coordinated with CDOT's US36 Wetlands Mitigation Project in this same area, the Open Space/Mountain Parks Department and Boulder County.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($750,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Fund	$0	$125,000	$125,000	$125,000	$125,000	$125,000	$125,000
Total Funding Plan	**$750,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Transportation Fund Operating Budget

Additional Annual O&M Description:

Project may result in minimal incremental increases in on-going maintenance costs which will be programmed in the Transportation Fund budget.

Project Name: Boulder Junction - Development Coordination

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Transportation	**Subcommunity:**	Crossroads
Project Number:	751001	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	61
		CEAP Status:	

Project Description

This project began in 2011, and funding is for ongoing planning and development coordination within the Phase 1 area of Boulder Junction, bounded by 30th Street, BNSF Railroad, Valmont Road and the Irrigation Ditch/Boulder Slough (south of Pearl Parkway). Over the life of this project, work includes base mapping for the Phase 1 Boulder Junction area, conceptual design and cost estimate updates for identified and unidentified possible Key Public Improvements, engineering support, Pearl electrical undergrounding costs and coordination, and coordination of various public improvements with area private development projects.

This project is necessary as part of implementation and coordination associated with the city-funded Key Public Improvements as part of the Transit Village Area Plan (TVAP) - Implementation Plan, and related private development in the Boulder Junction area. The transportation connections as part of the TVAP Connections Plan, are also included in the Transportation Master Plan, and support both plan goals of creating a fine-grained, multimodal network of transportation connections that support a pedestrian friendly environment, create safe and convenient access to transit, and support necessary connections for area redevelopment.

In 2013, project funding was spent on additional surveying, engineering review support tasks for 3100 Pearl, Depot Square and remaining Steel Yards developments, BNSF Railroad coordination support, private utility coordination and other tasks. In 2014, $75,000 is anticipated to be spent on on-going engineering and design support in coordination with private development including: coordination with 3100 Pearl, Depot Square and remaining Steel Yards developments, supporting public infrastructure project design, and BNSF Railroad coordination with multiple projects. The private development projects have uncertain schedules, making it difficult to anticipate development coordination support needs.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

Relationship with Other Departments

The TVAP was a coordinated multi-department effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility (as part of Depot Square development), possible other future Transit-Oriented Development and future Northwest Rail facilities.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	**$450,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$450,000
Funding Total	($450,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Boulder Junction Improvement Fund	$0	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000
Total Funding Plan	**$450,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** N/A

Additional Annual O&M Description:

N/A

Project Name: Boulder Junction - Junction Pl Enhancements (Goose Creek to Bluff)

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Transportation	**Subcommunity:**	Crossroads
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	71
		CEAP Status:	

Project Description

This project includes the "enhancement" of this section of Junction Place, over and above the standard "collector" classification roadway required of future adjoining private developments. The exact nature of the enhancement is still being defined, but is anticipated to include items such as: bike facilities, and possible enhancements to 1) street and sidewalk surface materials, 2) landscaping, 3) streetscape elements and other possible items.

This project was included in the list of Key Public Improvements for public funding as part of the Transit Village Area Plan (TVAP) - Implementation Plan, and is also a part of the TVAP Connections Plan and the Transportation Master Plan. This project supports both TVAP and TMP plan goals of creating a fine-grained, multimodal network of transportation connections that supports a pedestrian friendly environment, creates safe and convenient access to transit, and supports necessary connections for area redevelopment. In particular, Junction Place is viewed as a central spine to the Phase 1 Boulder Junction area, linking 32nd Street north to Pearl Parkway, and continuing north ultimately to Valmont Road.

Costs for these enhancements will be negotiated during private development reviews. Implementation is anticipated to be coordinated with reconstruction of this section of Junction Place, with some cost participation anticipated by private development and applicable "enhancement" costs paid by the City.

For funding purposes, this project is assumed to start in 2014, with construction anticipated in 2015. The timing of project design and construction is dependent on redevelopment of adjoining properties (such as remaining Steel Yards lots, Air Gas, Sutherlands, etc), future Northwest Commuter Rail implementation and other factors. The timing of private development projects is uncertain, which creates some uncertainties in this public project implementation.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

Relationship with Other Departments

The TVAP was a coordinated multi-department effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility (as part of Depot Square development), possible other future Transit-Oriented Development and future Northwest Rail facilities.

Change from Past CIP

$400,000 moved from 2015 to 2014 to align with anticipated private development.

Estimated Total Cost

Project Cost

Planning	$88,000
Acquisition	
Construction	$789,000
Total Project Cost	**$877,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$877,000
Funding Total	($877,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Boulder Junction Improvement Fund	$0	$400,000	$477,000	$0	$0	$0	$0
Total Funding Plan	**$877,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Transportation Fund Operating Budget

Additional Annual O&M Description:

Project may result in minimal incremental increases in on-going maintenance costs.

Project Name: Boulder Junction - Traffic Signal at Bluff Street and 30th Street

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Transportation	**Subcommunity:**	Crossroads
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	73
		CEAP Status:	

Project Description

This project includes fronting the design/construction cost of a new traffic signal at the intersection of Bluff Street and 30th Street.

This project was included in the list of Key Public Improvements for public funding as part of the Transit Village Area Plan (TVAP) - Implementation Plan, and is also a part of the TVAP Connections Plan and the Transportation Master Plan. This project supports both TVAP and TMP plan goals of creating a fine-grained, multimodal network of transportation connections that supports a pedestrian friendly environment, creates safe and convenient access to transit, and supports necessary connections for area redevelopment. In particular, this new traffic signal will facilitate transit and traffic movements, provide safe pedestrian crossings, and facilitate connections from surrounding neighborhoods and future redevelopment projects.

Implementation is anticipated to be coordinated with adjoining private redevelopment. Reimbursement for a portion of these City funds may be obtained from private area redevelopment.

This project is anticipated to occur in 2017, in conjunction with future private redevelopment near this intersection. The timing of private development projects is uncertain, which creates some uncertainties in this public project implementation.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [ ] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

Relationship with Other Departments

The TVAP was a coordinated multi-department effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility (as part of Depot Square development), possible other future Transit-Oriented Development and future Northwest Rail facilities.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$25,000
Acquisition	
Construction	$203,000
Total Project Cost	**$228,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$228,000
Funding Total	($228,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Boulder Junction Improvement Fund	$0	$0	$0	$0	$228,000	$0	$0
Total Funding Plan	**$228,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Transportation Fund Operating Budget

Additional Annual O&M Description:

Project may result in minimal incremental increases in on-going maintenance costs.

Project Name: Boulder Junction - Traffic Signal at Junction Place and Valmont

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Transportation	**Subcommunity:**	Crossroads
Project Number:		**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	74
		CEAP Status:	

Project Description

This project includes fronting the design/construction cost of a new traffic signal at the intersection of proposed Junction Place and Valmont Road.

This project was included in the list of Key Public Improvements for public funding as part of the Transit Village Area Plan (TVAP) - Implementation Plan, and is also a part of the TVAP Connections Plan and the Transportation Master Plan. This project supports both TVAP and TMP plan goals of creating a fine-grained, multimodal network of transportation connections that supports a pedestrian friendly environment, creates safe and convenient access to transit, and supports necessary connections for area redevelopment. In particular, this new traffic signal will facilitate transit and traffic movements, provide safe pedestrian crossings, and facilitate connections from surrounding neighborhoods and future redevelopment projects.

Implementation is anticipated to be coordinated with adjoining private redevelopment. Reimbursement for a portion of these City funds may be obtained from private area redevelopment.

This project is anticipated to occur in 2017, in conjunction with future private redevelopment near this intersection. The timing of private development projects is uncertain, which creates some uncertainties in this public project implementation.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

Relationship with Other Departments

The TVAP was a coordinated multi-department effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility (as part of Depot Square development), possible other future Transit-Oriented Development and future Northwest Rail facilities.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$25,000
Acquisition	
Construction	$279,000
Total Project Cost	**$304,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$304,000
Funding Total	($304,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Boulder Junction Improvement Fund	$0	$0	$0	$0	$304,000	$0	$0
Total Funding Plan	**$304,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Transportation Fund Operating Budget

Additional Annual O&M Description:

Project may result in minimal incremental increases in on-going maintenance costs.

Project Name: City Yards Frontage Site Preparation for Potential Pollard Relocation

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Transportation	**Subcommunity:**	East Boulder
Project Number:	781042	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	64
		CEAP Status:	

Project Description

This project provides funds to prepare the city yards property frontage along Pearl Street per the option agreement between the Pollards and the city, including site grading, prairie dog mitigation, fencing, utility relocation, and other site improvements. The specific work items are outlined in an executed agreement. Between 2007 and 2009, design and relocation of the overhead electrical power line crossing the site was completed. The timing of the remaining site preparation is dependent on the Pollard's plan to redevelop and relocate their business to the site. After getting notice from the Pollards of their plans to relocate, the city will proceed as outlined in the option agreement.

This project reflects the Transportation Department's commitment in the city's contract with the Pollards to prepare the City Maintenance Yards frontage along Pearl Parkway for Pollard business relocation if they exercise their option to purchase the Yards frontage. In addition, these site changes/improvements are in alignment with the Yards Master Plan.

Revenues associated with the future sale of Yards frontage property, including the Pollard parcels, are anticipated to fully offset these expenses. The funding for the remaining site preparation was previously planned over a two year period in 2014 and 2015. The funding in 2015 was moved to 2014 in this CIP so that the preparation of the site can all be completed in 2014, if needed, based on the timing of the Pollard's decision to exercise their option as detailed in the option agreement.

Relationship to Guiding Principles

- ✔ Consistent with Master Plans
- ✔ Achieves Community Sustainability Goals
- ✔ Sufficient funds to operation and maintain
- ✔ Maintains and enhances City's business needs
- ✔ Provide capacity and flexibility in long term planning to respond to needs
- ✔ Sustain or improve existing assets
- ✔ Maximizes efficiency
- ✔ Provides sufficient reserves
- ✔ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

None Required. Improvements will occur entirely on city Maintenance Yard site. Any prairie dog impacts will be in accordance with the city's ordinances and policies.

Relationship with Other Departments

This project will be coordinated with the Wildlife Coordinator, Utilities, Fleet, and Parks maintenance.

Change from Past CIP

Funding was consolidated from 2 years (2014 and 2015) to 1 year

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	$1,225,000
Total Project Cost	**$1,225,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,225,000
Funding Total	($1,225,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Fund	$0	$1,225,000	$0	$0	$0	$0	$0
Total Funding Plan	**$1,225,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Property will be sold to the Pollard's - no on-going operating costs after sale of property.

Project Name: Miscellaneous Development Coordination

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Transportation	**Subcommunity:**	Multiple Subcommunities
Project Number:	711004	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

This ongoing funding is intended to construct infrastructure improvements in coordination with or prompted by potential private development. Throughout the year, situations arise where infrastructure improvements required in the vicinity of a proposed development should be made at the same time as the development, and for which a developer cannot be required to construct. Improvements that are typically included are bike and pedestrian, functional efficiency, safety, system preservation, and transit system improvements. This project is growth related because it addresses needs from new development. A major goal in the Transportation Master Plan is to create an integrated, multimodal system and one that is supportive of land use patterns.

In 2014, the money will be used for issues that arise during the year that are small items required to be constructed as a result of development or to coordinate with a development project. The projects are not known at this time.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Projects generally require coordination with adjacent neighborhoods and property owners.

Relationship with Other Departments

Close coordination with the Development Review work group and the Planning Department is required.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($350,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Development Fund	$50,000	$50,000	$50,000	$50,000	$50,000	$50,000	$50,000
Total Funding Plan	**$350,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Transportation Fund Operating Budget

Additional Annual O&M Description:

Project may result in minimal incremental increases in on-going maintenance costs which will be programmed in the Transportation Fund budget.

Project Name: Pedestrian Facilities - Repair, Replacement, ADA

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Transportation	**Subcommunity:**	Multiple Subcommunities
Project Number:	781773	**BVCPArea:**	Areas I & II
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

This ongoing program allows for repair, replacement and construction of existing and new sidewalks, and construction of access ramps. Sidewalk repair priorities have been established in the Sidewalk Repair Program and yearly funding is spent accordingly. Compliance with ADA is resulting in additional expenditures for access ramps and driveway modifications.

This program meets the Transportation Master Plan goal of creating an integrated, multimodal transportation system, emphasizing the role of the pedestrian mode as the primary mode of travel as it is the beginning and end of every travel trip. The program also meets federal ADA requirements of working towards bringing sidewalks and access ramps up to the current federal standards. And, the TMP investment policies identify maintenance as the highest priority item to fund.

In 2013, $629,000 will be spent on design, survey, project management, and construction for the 2013 Annual Sidewalk Repair Program for improvements in the downtown area, with general boundaries from 9th Street to 20th Street and from Arapahoe to Spruce. In 2014 the funds will be spent to complete the downtown area and if that area is completed, the next area identified is west of Broadway between Arapahoe and Baseline.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

A neighborhood meeting is held for the identified repair area owners in advance of the work starting and individual notices are mailed out yearly to the adjacent property owners.

Relationship with Other Departments

Coordination with the Parks Department - City Forester is required adjacent to street trees. Coordination with the city Utility Division regarding water meter location is also required. The work in the downtown area will be coordinated with DUHMD and the Parks Department.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Fund		$629,000	$629,000	$629,000	$629,000	$629,000	$629,000
Total Funding Plan							

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:**

Additional Annual O&M Description:

Adjacent property owners are generally responsible for sidewalk maint. This project does reduce some need to place temporary asphalt patches on damaged sidewalks.

Project Name: Pedestrian Facilities Enhancements-Missing Links, Crossing Treatments

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Transportation	**Subcommunity:**	Multiple Subcommunities
Project Number:	781002	**BVCPArea:**	Areas I & II
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

The Pedestrian Facilities budget is an ongoing funding program that includes the installation of missing sidewalk links and pedestrian crossing/safety treatments and potentially social paths and sidewalk widening improvements. The list of identified missing sidewalk links has been prioritized for construction. Crossing treatment improvements are prioritized citywide and include median refuge islands, crosswalk lighting, flashing signs, neck-downs, signing, lighting, and/or pedestrian signals.

This program meets the Transportation Master Plan goal of creating an integrated, multimodal transportation system emphasizing the role of the pedestrian mode as the primary mode of travel as it is the beginning and end of every travel trip.

Last year the program budget went towards a portion of the construction cost for the Linden Avenue (Broadway to Wonderland) missing sidewalk and the pedestrian crossing on Spine Rd at Gunpark Dr. In 2014, the money will be spent on the next highest priority missing link, which is on Lehigh Drive from Galena south to the OSMP trailhead. It will also be spent on pedestrian crossing treatments at the next highest identified pedestrian crossing location at Spine Road and Chapparal Court.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

TAB approved the Proposed Prioritized list of Missing Sidewalk Links on May 10, 2004. TAB made a recommendation to support the use of the Pedestrian Crossing Treatment Installation Guidelines in 2005 and the document went to the City Council as information item in 2006. These guidelines were updated in 2012.

The Public Process for installing missing sidewalks links is on-going and may involve a process for one or more locations per year. Staff works with neighborhoods and adjacent property owners on individual improvements.

Relationship with Other Departments

Coordination with the Parks Department - City Forester - is required and the utilities department if there are utility conflicts.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($450,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Fund	$0	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000
Total Funding Plan	**$450,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Transportation Fund Operating Budget

Additional Annual O&M Description:

Adjacent property owners are responsible for sidewalk maintenance by code. Crossing treatments have minimal maintenance requirements.

Project Name: Signal Maintenance and Upgrade

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Transportation	**Subcommunity:**	System-wide
Project Number:	7110xx	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

The Signal Maintenance and Upgrade project is an on-going program that is used for the installation of new traffic signals and signal upgrades. Budgeting as a capital project at $200,000 every four years as opposed to budgeting one-quarter of this amount every year is consistent with the project implementation, as this is approximately the cost to signalize or upgrade one intersection.

The decision to install a new traffic signal is made on the basis of a signal warrant study, which uses data collected at the study location (peak period traffic volumes and delay, accident history) to determine if the benefits of a traffic signal at that location (potential for reduced side street delay during peak periods, increased pedestrian and cyclist access, potential for reduction in right-angle accidents) outweigh the downsides (increased main street delay, increased side street delay during off-peak periods, increased pedestrian and cyclist delay during off-peak periods, potential for increase in rear-end accidents). Some locations in Boulder that have been identified as potential future signal locations are studied periodically. Other locations are studied based on requests from the community. If there are multiple locations where new signals are desired, they are prioritized based on the magnitude of the identified benefit at each location.

Signalized intersections meet the Transportation Master Plan goals of helping to creating a fine-grained, multimodal network of transportation connections that support a bicycle and pedestrian friendly environment by providing better and safer access across busy streets at peak times.

This funding could also be used to reconstruct existing traffic signals, to provide operational benefits (such as adding double left-turns), or to address deficiencies (such as aging, corroded poles). The funding will be available in 2014 and again in 2018.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The public process associated with new traffic signal installations is determined by the location of the new signal and the availability of other alternatives to address the issues to be addressed by the signal installation.

Relationship with Other Departments

New traffic signal installations are coordinated with Xcel Energy, which provides power to operate traffic signals.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($400,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Development Fund	$0	$200,000	$0	$0	$0	$200,000	$0
Total Funding Plan	**$400,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Existing operating budgets

Additional Annual O&M Description:

If the funding is used to upgrade an existing signal the maintenance costs will remain the same or go down. If a new signal is installed the project may result in minimal incremental increases in on-going maintenance costs which will be programmed in the Transportation Fund budget.

Project Name: TIP Local Match/TMP Implementation

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Transportation	**Subcommunity:**	System-wide
Project Number:	781052	**BVCPArea:**	Areas I & II
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	As appropriate

Project Description

This ongoing funding is for the implementation of projects identified in the Transportation Master Plan that will be prioritized in the current update to the master plan. This money will also be used as local match to leverage potential federal and state funding for projects submitted in future year's DRCOG TIP submittal process (the next process starts in 2014 with funding available in 2015) or other funding match opportunities, developing conceptual plans for projects prior to submitting for possible external funding, or for smaller high priority projects identified through the TMP process. If the city succeeds in acquiring external project funds this money will become the city's funding match. And, in this case, new projects will be created in the CIP that will include the external funding and the city's match.

This budget item allows flexibility to be ready to implement high priority projects that are identified through the TMP update planned to be completed in 2014. The highest priority projects identified in the TMP that best meet the DRCOG scoring criteria are submitted to compete for federal funding. Prior to finalizing the list of projects to submit for DRCOG TIP funding, staff will work with TAB to identify the best projects and then submit the project list to council for their review prior to submitting for potential funding.

The annual funding amounts in this category have increased from last year's CIP to allow flexibility and to be ready to implement projects defined in the TMP update that will be completed in 2014. High priority projects that may be funded from this OCA prior to the DRCOG TIP project submittal process are path connections at the confluence of Boulder Creek and South Boulder Creek near Valmont and 63rd Street, and safety improvements at the intersection of 28th Street and Violet to install safety improvements where there have been two bicyclist fatalities.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Public Process, CEAP and design to be determined in relationship to specific projects.

Relationship with Other Departments

As the projects are refined necessary interdepartmental coordination will be identified.

Change from Past CIP

Amounts have been increased for flexibilty in funding match and TMP projects.

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	**$0**

Unfunded Amount

Unfunded Amount

Project Cost Total	$0
Funding Total	($9,000,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Fund	$0	$800,000	$1,300,000	$1,300,000	$1,300,000	$1,800,000	$1,800,000
Transportation Development Fund	$0	$0	$0	$0	$0	$300,000	$400,000
Subtotal All Funds	$0	$800,000	$1,300,000	$1,300,000	$1,300,000	$2,100,000	$2,200,000

Total Funding Plan **$9,000,000**

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

N/A

Project Name: Transportation Master Plan Study

Project at a Glance

Project Type:	Capital Planning Studies		
Department:	PW/ Transportation	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	
		CEAP Status:	

Project Description

Transportation Master Plan (TMP) planning study funding ($100,000) will be used in 2014 to advance the work program for the Transportation Master Plan update. Items will include continuing work on the bike and walk innovations, including additional projects for the 'Living Lab" approach with the community, as well as additional work to update the capital project planning and investment strategies for the various transit and TDM alternatives.

This project's purpose is to create the Transportation Master Plan that will guide future CIP project lists.

Relationship to Guiding Principles

- ✔ Consistent with Master Plans
- ✔ Achieves Community Sustainability Goals
- ✔ Sufficient funds to operation and maintain
- ✔ Maintains and enhances City's business needs
- ✔ Provide capacity and flexibility in long term planning to respond to needs
- ✔ Sustain or improve existing assets
- ✔ Maximizes efficiency
- ✔ Provides sufficient reserves
- ✔ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Public input will be collected as part of the TMP development

Relationship with Other Departments

The Transportation Master Plan is being coordinated with the Coummunity Planning and Sustainability Department to help to improve alignment of land-use and transportation.

Change from Past CIP

New Project

Estimated Total Cost

Project Cost

Planning	$100,000
Acquisition	
Construction	
Total Project Cost	**$100,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$100,000
Funding Total	($100,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Fund	$0	$100,000	$0	$0	$0	$0	$0
Total Funding Plan	**$100,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** N/A

Additional Annual O&M Description:

There is no operating cost associated with this project.

Project Name: Valmont & 29th/Hazard Elimination

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Transportation	**Subcommunity:**	Crossroads
Project Number:	781xxx	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	67
		CEAP Status:	

Project Description

This project consists of signalizing the intersection of 29th Street and Valmont, the addition of left turn lanes in Valmont Road, and reconstructing the adjacent bike lanes and sidewalks. Implementation of the project elements requires extending the concrete box culvert to contain the adjacent irrigation ditch on the north side of Valmont. There was a bicyclist fatality at this intersection, and it is a difficult intersection for bicyclist and pedestrians to cross. The 29th Street corridor in this area is a desirable biking and walking facility as it has lower traffic volumes, connects residential land use to local services, and is a direct and preferred connection to the Goose Creek Greenway Trail.

Signalized intersections meet the Transportation Master Plan goals of helping to creating a fine-grained, multimodal network of transportation connections that supports a bicycle and pedestrian friendly environment by breaking down crossing barriers and providing better and safer access across busy streets at peak times. The investment policies of the TMP identify safety as one of the highest priority items to fund.

The city received federal Hazard Elimination Program funding in a 2012 application to be funded fully in 2014. This project is funded in the 2015 federal funding year and is therefore available to the city in the middle of 2014. This project includes $2,713,500 of outside funding from federal HEP funds and $301,500 of city funds. The project is anticipated to complete construction in 2015.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

At least one public meeting will be held and there will be individual meetings with adjacent property owners.

Relationship with Other Departments

New traffic signal installations are coordinated with Xcel Energy, which provides power to operate traffic signals. We will also coordinate with public and private utility's for any utility impacts and the ditch company for impacts to the irrigation ditch on the north side of Valmont.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$915,000
Acquisition	$200,000
Construction	$1,900,000
Total Project Cost	**$3,015,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$3,015,000
Funding Total	($3,015,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Transportation Fund	$0	$3,015,000	$0	$0	$0	$0	$0
Total Funding Plan	**$3,015,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Existing operating budgets

Additional Annual O&M Description:

Project may result in minimal incremental increases in on-going maintenance costs compared to the overall cost to maintain the system. Additional maintenance requirements include snow plowing and street maintenance of the additional street surface for turn lanes and for on-going maintenance of the signal. Funds are being increased to the operating budgets to cover additional maintenance costs.

Project Name: Rehabilitate Portion of Aircraft Parking Ramp

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Municipal Airport	**Subcommunity:**	East Boulder
Project Number:	771xxx	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	79
		CEAP Status:	

Project Description

Rehabilitate the western third of the aircraft parking ramp in 2014, which is a surface area of approximately 17,000 square yards. The project will include repairing the subgrade, correcting drainage issues, re-paving, painting of aircraft movement lines, and installing tie-down anchor points for aircraft. This portion of asphalt is 24 years old and was only projected to last 20 years. In 2008, CDOT gave the asphalt a rating of 47 out of 100 and stated that it needed extensive rehabilitation. In addition, there is a portion of the asphalt that has become so degraded that it will no longer be safe for aircraft operations unless it's repaved.

This project will be 90% funded through the CDOT Aeronautics Division, with the remaining 10% paid for by the Airport Fund.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [ ] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [x] Maintains and enhances City's business needs
- [ ] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [ ] Maximizes efficiency
- [ ] Provides sufficient reserves
- [ ] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

This project was included in the Airport Master Plan Update process, which included open house meetings and mailings to airport neighbors, and was approved by City Council in 2007.

Relationship with Other Departments

None at this time.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$100,000
Acquisition	
Construction	$1,455,555
Total Project Cost	**$1,555,555**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,555,555
Funding Total	($1,555,555)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Airport Fund	$0	$1,555,555	$0	$0	$0	$0	$0
Total Funding Plan	**$1,555,555**						

Additional Annual Operations and Maintenance

Additional Annual O&M: ($8,000) **Funding Source:** Airport Fund

Additional Annual O&M Description:

Completing the CIP will save the airport approximately $10K a year on crack fill and seal coats. Once the ramp is re-paved, the only maintenance will be semi-annual painting of stripes and a seal-coat in approximately 5-10 years.

Funding Overview

Each of the city's three utility funds is established as a separate enterprise fund designed to finance and account for each utility's facilities and services. Funding for the Utilities Division capital improvement program is derived primarily from monthly utility fees. The 2014-2019 capital improvement program (CIP) was developed using the following proposed 2014 revenue increases from monthly utility fees:

- Water: 4%
- Wastewater: 5%
- Stormwater/Flood Management: 3%

Any revenue increases for 2014 will be reviewed by the Water Resources Advisory Board and considered by City Council. Approval of revenue increases that are different from what is listed above may impact the 2014-2019 CIP.

In addition to the monthly utility fees, significant revenue sources include Plant Investment Fees (PIFs) from new development or redevelopment and hydroelectric sales to Xcel Energy. Sales from monthly utility fees can be variable and reflect the overall growth of the service area and yearly weather fluctuations.

Other revenue sources include reimbursements from the Urban Drainage & Flood Control District (UDFCD, this is for stormwater/flood management projects), Colorado Department of Transportation (CDOT) state and federal grants, and revolving loans from the Colorado Department of Public Health and Environment (none anticipated at this time). These revenues are project specific and are highly variable depending on the external agency's funding situation and priorities. Currently, the following projects are anticipated to qualify for such revenues:

- Pre-Flood Acquisition
- Wonderland Creek
- Fourmile Canyon Creek
- South Boulder Creek

If the above mentioned funds are insufficient, projects may be funded by issuing revenue bonds with the debt service financed by general utility charges. For the years 2014-2019, it is anticipated that new bonds will be issued for the following projects:

Water:

- Betasso Water Treatment Facility Improvements ($12 million in 2016) to fund improvements to the Betasso WTP to assure compliance with federal Safe Drinking Water Act regulations
- Barker Dam Improvements ($11.3 million in 2018) to fund repairs to the outlet works and construct a new hydroelectric facility
- Carter Lake Pipeline ($27.4 million in 2018).

Wastewater:

No bonds are anticipated in the 2014-2019 planning period.

Stormwater and Flood Management:

South Boulder Creek Improvements ($4.5 million in 2017) to fund improvements designed to mitigate flood hazards in the South Boulder Creek West Valley area.

The following table summarizes the debt obligations of the utilities, the year the debt is retired and the average annual debt payment. Items shown in italics are projects that are anticipated to be funded by issuing bonds.

Table 11-1 Existing and Planned Infrastructure Financed by Debt

Utility	Projects	Year Debt is Retired	Approximate Annual Debt Payment
Water	Boulder Reservoir WTF Improvements	2016	$858,000
	Multiple Projects including Silver Lake Pipeline, Barker Purchase	2019	$2,522,000
	Lakewood Pipeline	2021	$2,066,000
	Betasso WTF Imp. (2016)	*2036*	*$1,125,000*
	Barker Dam Improvements (2018)	*2038*	*$1,046,000*
	Carter Lake Pipeline (2018)	*2038*	*$2,508,000*
Wastewater	WWTF Improvements	2025	$3,500,000
	WWTF Improvements	2030	$674,000
Storm/Flood	Multiple projects including Goose Creek Improvements	2018	$385,000
	South Boulder Creek Imp. (2017)	*2037*	*$437,000*

The water utility also pays a portion of the Northern Colorado Water Conservancy District's debt related to the Windy Gap project. This debt will be retired in 2017 and Boulder's annual debt payment is approximately $1,650,000.

In 2012, City Finance and Utility staff were successful in refunding (or 'refinancing') bonds originally issued in 2005. This will result in savings to the fund of around $80,000 per year through 2015, then over $300,000 per year through 2025. The utility continues to maintain a high credit rating through Moody's (Aa1) and Standard and Poor's (AAA). This is due to sound financial practices, one of the most important of which is maintaining sufficient reserves.

Accomplishments And Highlights

Water:

Projects to be Completed in 2013:

- Phase 1 of the Sunshine Pipeline Inspection
- Kossler Reservoir Concrete Facing Rehabilitation
- Barker Gravity Pipeline Repairs: Ongoing repairs in order of priority and availability
- Barker Dam Outlet Gate Test
- Barker Canyon Hydroelectric Modernization Xcel Coordination
- Boulder Canyon Hydroelectric Project Relicensing
- Green Lake No. 2 Assessment and Rehabilitation Study
- Replacement of approximately 20,000 feet of water main
- Mixing improvements at Devil's Thumb storage tank.

Projects Expected for Completion in 2014:

- Albion Dam Assessment and Rehabilitation Study
- Barker Gravity Pipeline Repairs: Ongoing annual repairs in order of priority and availability
- Lakewood Pipeline inspection
- Boulder Canyon hydroelectric roof and floor rehabilitation
- Initial design for the Betasso Water Treatment Facility bond project
- Ongoing water main replacement.

Projects Starting in 2014, but not Completed:

- Betasso Water Treatment Facility rehabilitation and improvement project
- Watershed improvements.

Highlights of 2015-2019 Projects:

- Annual funding for waterline replacement of $3,000,000 is proposed in order to provide for the replacement of additional waterlines located in residential streets scheduled to be reconstructed by the city's Transportation Division. Completing water

main replacement just ahead of street resurfacing results in significant savings since pavement restoration costs can be eliminated. Coordination also reduces the risk that the useful life of a newly reconstructed street will be impacted by a main break

- Annual maintenance program of the Barker Gravity Line: Prioritize pipeline repair projects based on the most critical needs, providing enough earthen cover to protect the pipeline, and anchor the pipeline in areas prone to landslides. Replacement or lining of pipe sections are options that may be used in different parts of the pipeline
- Betasso Water Treatment Facility: In 2015-2016, address issues related to aging equipment and underperforming treatment processes
- Carter Lake Pipeline: Funding for the final design is allocated in 2017 and construction funding in 2018. The pipeline is considered the best long-term solution to water quality, operational and security vulnerability issues related to drawing water directly from either the Boulder Feeder Canal or Boulder Reservoir. The pipeline would provide an opportunity to develop a new hydroelectric facility and funding for construction of this facility is allocated in 2019

Repairs to the Barker Gravity Pipeline

- Barker Dam Outlet Facilities: Funding for the final design is allocated in 2017 and construction funding allocated in 2018. The outlet facilities would provide an opportunity to develop a new hydroelectric facility and funding for construction of this facility is allocated in 2018
- The 2013-2014 assessment of rehabilitation options for Green Lake No. 2 and Albion dams will confirm the path forward on re-establishing operational levels of storage on these dams.

<u>Wastewater:</u>

Projects to be Completed in 2013:

- Rehabilitation/improvement-75th St. Wastewater Treatment Facility (WWTF): Replace the existing chlorine disinfection system with an ultraviolet (UV) disinfection system, improve the biosolids digesters, and upgrade the headworks
- IBM Lift Station Design Improvements
- WWTF Process Optimization System (PAS) Strategic Plan
- WWTF Transfer Pump Station Improvements.

Projects Expected for Completion in 2014:

- IBM Lift Station Construction Improvements
- WWTF Solids Processing Pumps Replacement.

Projects Starting in 2014, but not Competed:

- WWTF Current Permit Improvements
- WWTF Instrumentation & Controls Improvements
- WWTF Electrical Improvements.

Highlights of 2015-2019 Projects:

- Funding for the annual Sanitary Sewer Rehabilitation projects continues at of rate of $500,000 in 2014 escalating at 4% annually to over $600,000 in 2019
- In March 2011 the city received a new discharge permit for the 75th Street wastewater treatment facility (WWTF) with an effective date of May 1, 2011. The city was successful in negotiating an extended schedule which provides for compliance by December 1, 2017. This will require relatively minor modifications to the WWTF that are funded in the proposed CIP
- A comprehensive list of WWTF rehabilitation projects has been identified from the Wastewater Utility Fund Asset Management tool, and included in the 20-year CIP based on staff input, engineering studies and the asset management database. For the current 6-year CIP, funding for the rehabilitation projects has been allocated to various WWTF components as shown in the detailed CIP list.

Stormwater and Flood Management:

Projects to be Completed in 2013:

- Flood mapping updates: Skunk Creek, Bluebell Creek, King's Gulch, Upper Goose Creek, Twomile Creek and Boulder Slough. Once these mapping updates have been adopted, flood mitigation plans will be developed to evaluate feasible capital improvements for reducing the flood risk along these creeks and tributaries
- Utilities storm sewer funding for the Pearl South Multi-Way project
- Utilities storm sewer funding for the Arapahoe (15th Street to Folsom) Improvements project
- See Greenways for additional projects.

Projects Expected for Completion in 2014:

- Boulder Slough improvements: Improvements will increase the flood capacity along the north side of Pearl Street. This project is being performed in conjunction with the Transportation Division project - Pearl Parkway Multi-Use Path: 30th to Foothills
- See Greenways for additional projects.

Projects Starting in 2014, but not Completed:

- See Greenways for additional projects.

Highlights of 2015-2019 Projects:

- Major drainage-way improvements for the Upper Goose Creek drainage area in the next six years. This project will address potential flooding issues in the area bounded on the west and east by 9th Street and 19th Street respectively; and on the north and south by Balsam Avenue and North Street respectively
- See Greenways for additional projects.

Relationship To Guiding Principles And Prioritization

CIP Guiding Principles:

The proposed Utilities Division CIP is consistent with the CIP guiding principles in that 1) all projects have been identified and prioritized through Council accepted master plans 2) capital improvements are designed to achieve community sustainability goals, 3) funds to operate and maintain the project or program have been identified, 4) adequate financial capacity and flexibility is available to respond to emerging, unanticipated needs (except for the WWTF permit issue identified below, 5) the maintenance and enhancement of city-wide business systems is captured elsewhere in the CIP, 6) projects sustain or improve maintenance of existing assets before investing in new assets, 7) project have been identified to meet legal mandates, maintain public safety and security, leverage external investments, promote community partnerships, reduce operating cost and improve efficiency, 8) capital projects have been screened through a cost/ benefit analysis, 9) the CIP provides sufficient reserves to allow for a strong bond rating and the ability to address emergencies and natural disasters.

The projects identified in the 2014-2019 CIP are intended to implement these guiding principles and are consistent with the department master plans identified below.

In 2002 it was decided to develop an overarching master plan for each of the City's three utilities. More detailed plans have been developed for major functional areas. Recent master plans include recommendations for CIP projects over a 20-year time period. The project recommendations consider the prioritization listed below as well as information from the Utilities Division asset management system. This system includes replacement cost, useful life and condition rating which have been documented for each significant utility asset. This information informs the six-year CIP.

Current Utilities Division master plans include:

<u>Water:</u>

- Source Water Master Plan – 2009
- Treated Water Master Plan (TWMP) – 2011
- Water Utility Master Plan (WUMP) – 2011

Wastewater:

- Wastewater Collection System Master Plan – 2010
- Wastewater Utility Master Plan – 2010

Stormwater/ Flood Management:

- Stormwater Master Plan –2007
- Comprehensive Flood and Stormwater (CFS) Master Plan – 2004

Prioritization:

The overall program and funding priorities are reflected in the timing of projects over the six-year CIP time period. In addition to master plan recommendations, the following factors were considered in determining the overall program and funding priorities:

Water and Wastewater:

- Reliability of water and wastewater collection, delivery and treatment
- Water quality and other environmental regulations
- Worker health and safety
- Opportunity to collaborate with other city projects, such as Transportation projects
- Opportunity to collaborate with other utility providers to leverage funds or obtain federal or state grants
- Potential for operation and maintenance cost savings
- Accommodating new growth and development

Stormwater and Flood Management:

- Life safety (high hazard) mitigation
- Flood emergency response capability
- Critical facility (vulnerable population) hazard mitigation
- Property damage mitigation
- Collaboration with other Greenways Program Objectives
- Potential for operation and maintenance cost savings
- Accommodating new growth and development

Within current appropriations all projects proposed have sufficient funds for ongoing operations and maintenance, and 90% of the Water Utility and Wastewater Utility projects are focused on maintaining or improving existing assets. Other Water and Wastewater Utility projects are intended to construct facilities required to comply with new regulations. In the Stormwater and Flood Management Utility, the majority of the project funding is focused on life safety and critical facility hazard mitigation issues.

Projects Not in Master Plans:

None.

NEW PROJECTS

The following new projects have been identified in the 6-year CIP:

Water:

- Construction of Pearl Street Hydrolectric / Pressure Reducing Facility
- Zone 1 Transmission Pipe Rehabilitation
- Zone 2 Transmission Pipe Rehabilitation
- Zone 3 Transmission Pipe Rehabilitation
- Farmer's Ditch Rehabilitation/Improvements
- Carter Lake Pipeline Hydroelectric
- Source Water Monitoring

Wastewater:

None.

Stormwater/ Flood Management:

None.

Operations and Maintenance Impacts

All ongoing operations and maintenance costs and cost projections are built in to the Utilities CIP or operating budget and are covered by funding sources noted above. As Enterprise funds, the Utilities funds must cover costs through identified revenues and fees.

Deferred Projects, Eliminated or Changed Projects

Funding for several projects has been deferred beyond the current six-year CIP period or reduced during the current six-year CIP period because of revenue limitations and construction costs inflation.

Funding for the following projects have been modified from the 2013-2018 CIP:

Water:

- Wittemyer Ponds.

Wastewater:

None.

Stormwater/ Flood Management:

- South Boulder Creek Flood Mitigation funding delayed from 2015 to 2017
- Wonderland Creek Foothills to 30th Street added $2.8 million in 2014
- Wonderland Creek at 28th Street moved $1.5 million from 2015 to 2014 and added $450,000
- Fourmile Canyon Creek 19th to 22nd Streets added $600,000 in 2014
- Fourmile Canyon Creek Upland to Violet reduced funding from $1 million to $500,000 in 2016 and 2017 and added $250,000 in 2019.

It should be noted that the proposed CIP assumes funding for the replacement/rehabilitation of existing Utilities assets at a level of 75% of the predicted rate based on a recent asset management analysis. Staff believes this will be adequate and sustainable since renewal and rehabilitation techniques and approaches can be accomplished at a lower cost than complete replacement.

Staff will continue to monitor and refine the asset replacement analysis and adjust the actual replacement rate within the 60-75 percent range as part of the annual budget process. Asset replacement at 75 percent of the predicted level has been used to formulate the 2014-2019 CIP budget.

Construction Cost Inflation:
Construction cost inflation is tracked using the Engineering News Record (ENR) Cost Index for Denver and the Colorado Department of Transportation (CDOT) Colorado Construction Cost Index. The ENR index is a composite index based on costs for: 1) local portland cement, 2) local 2x4 lumber, 3) national structural steel, and 4) local union wages plus fringes for carpenters, bricklayers and iron workers. The CDOT index is a composite index based on costs for 1) unclassified excavation, 2) hot bituminous pavement 3) concrete pavement, 4) structural steel and 5) reinforcing steel. The ENR index is more reflective of equipment and building construction such as projects that occur at the treatment plants. The Colorado Construction Cost Index is more reflective of heavy civil construction such as roadway and major drainageway work. The following table presents information concerning these indices through December 2012:

Table 11-2 Changes to ENR Index and CDOT Index

	2012 Change	Running Average Yearly Change	
		5 years	10 years
ENR Construction Cost Index for Denver	7.65%	4.29%	4.71%
CDOT Colorado Construction Cost Index	16.55%	4.42%	11.44%

Based on this information it is recommended that capital improvement construction costs be escalated at a rate of 4% during the planning period.

Unfunded Projects and Emerging Needs

The proposed CIP budget should be adequate to address essential projects within the six-year planning time frame. The delays in the projects listed above are not expected to have a significant negative effect on the service level of the city's utilities systems. Therefore there are no unfunded needs identified within the 6-year CIP.

However, to continue to meet capital project needs, including the recommended asset replacement goals of 60-75% and compliance with permit regulations utility rate increases will be needed as indicated in the following table. The preliminary 2014 increases are in bold.

Table 11-3 Utility Rate Increases

	2013	**2014**	2015	2016
Water	3%	**4%**	4%	4%
Wastewater	5%	**5%**	5%	5%
Stormwater/Flood Management	3%	**3%**	3%	3%

Emerging needs have been identified as part of the recent Water Utility Master Plan. During the development of this master plan, a technical analysis was performed regarding the city's water treatment facilities and other infrastructure. The analysis indicates that this infrastructure should be adequate to meet water demand needs well into the future with little need for capacity expansion. However, a comprehensive analysis of existing assets pointed to the poor condition and aging of some mechanical and electrical equipment at the Betasso WTF. The Betasso WTF is the city's primary water treatment facility and has deteriorated during almost 50 years of continuous operation despite on-going maintenance and rehabilitation. These issues, combined with inherent deficiencies in certain treatment processes, are the reasons that large capital funding is recommended in 2015-2016.

Regulatory changes are another source of uncertainty and create emerging needs. For example, as explained in the Accomplishments and Highlights section of this memo, the city received a new discharge permit for the 75th Street WWTF in 2011 with new effluent limits. Complying with these limits will require a combination of regulatory negotiations, environmental studies and WWTF capital improvements.

Advisory Board Action

On June 17, 2013 the Water Resources Advisory Board voted (3-2) to recommend approval of the 2014-2019 CIP for the Water, Wastewater, and Flood/Stormwater Utilities including proposed rate adjustments to support 2014 revenue increases of 4% in the water utility, 5% in the wastewater utility, and 3% in the stormwater and flood control utility. Board Member Clancy voted against the motion because Wastewater issues (arsenic and nutrients) need to be better addressed in the shorter term, and Board member Squillace voted no and stated that though there are benefits to the Carter Lake pipeline, there is not yet sufficient information to assure that the benefits outweigh the substantial costs.

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Table 11-4: 2013-2018 Funding Summary By Department

PUBLIC WORKS - STORMWATER AND FLOOD MANAGEMENT UTILITY

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Stormwater Quality Improvements	$ -	$ 104,000	$ 108,160	$ 112,486	$ 116,986	$ 121,665	$ 126,532	$ 689,829	$ -	$ -
Upper Goose Creek Drainage	17,905,163	-	175,000	750,000	750,000	750,000	1,000,000	3,425,000	-	14,480,163
South Boulder Creek Flood Mitigation Phase I	15,875,000	-	-	-	5,575,000	-	-	5,575,000	300,000	10,000,000
Subtotal	$ 33,780,163	$ 104,000	$ 283,160	$ 862,486	$ 6,441,986	$ 871,665	$ 1,126,532	$ 9,689,829	$ 300,000	$ 24,480,163
Capital Maintenance										
Storm Sewer Rehabilitation	$ -	$ 260,000	$ 270,400	$ 281,216	$ 292,465	$ 304,163	$ 316,330	$ 1,724,574	$ -	$ -
Transportation Coordination	-	260,000	270,400	281,216	292,465	304,163	316,330	1,724,574	-	-
Subtotal	$ -	$ 520,000	$ 540,800	$ 562,432	$ 584,930	$ 608,326	$ 632,660	$ 3,449,148	$ -	$ -
Land and Asset Acquisition										
Preflood Property Acquisition	$ -	$ 500,000	$ 500,000	$ 500,000	$ 550,000	$ 600,000	$ 633,000	$ 3,283,000	$ -	
Subtotal	$ -	$ 500,000	$ 500,000	$ 500,000	$ 550,000	$ 600,000	$ 633,000	$ 3,283,000	$ -	$ -
Transfer										
Tributary Greenways Program - Stormwater & Flood	$ -	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 585,000	$ -	$ -
Subtotal	$ -	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 97,500	$ 585,000	$ -	$ -
Total	**$ 33,780,163**	**$ 1,221,500**	**$ 1,421,460**	**$ 2,022,418**	**$ 7,674,416**	**$ 2,177,491**	**$ 2,489,692**	**$ 17,006,977**	**$ 300,000**	**$ 24,480,163**

Table 11-2: 2013-2018 Funding Summary By Department (Cont.)

PUBLIC WORKS - WASTEWATER UTILITY

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Biosolids Processing and Dewatering	$ 150,000	$ 150,000	$ -	$ -	$ -	$ -	$ -	$ 150,000	$ -	$ -
Wastewater Treatment Facility Electrical	1,420,000	100,000	-	120,000	1,200,000	-	-	1,420,000	-	-
Wastewater Treatment Facility Instrumentation/Control	9,131,068	520,000	540,800	-	674,918	701,915	729,992	3,167,625	175,600	5,787,843
Wastewater Treatment Facility Permit Improvements - Funded	4,712,234	200,000	1,650,000	150,000	-	750,000	1,500,000	4,250,000	462,234	-
Wastewater Treatment Facility Pumps	448,413	150,000	-	150,000	-	-	-	300,000	148,413	-
Wastewater Treatment Facility Activated Sludge	710,961	-	389,376	-	58,493	-	-	447,869	-	263,092
Marshall Landfill	100,000	-	-	100,000	-	-	-	100,000	-	-
Wastewater Treatment Facility Laboratory	100,000	-	-	50,000	-	-	-	50,000	50,000	-
Goose Creek Sanitary Sewer Interceptor Rehabilitation	3,289,851	-	-	-	25,000	622,683	1,295,181	1,942,864	-	1,346,987
Subtotal	$ 20,062,527	$ 1,120,000	$ 2,580,176	$ 570,000	$ 1,958,411	$ 2,074,598	$ 3,525,173	$ 11,828,358	$ 836,247	$ 7,397,922
Capital Maintenance										
Collection System Monitoring	$ -	$ 50,000	$ -	$ -	$ 58,493	$ -	$ -	$ 108,493	$ 50,000	$ -
Sanitary Sewer Manhole Rehabilitation	-	104,000	108,160	112,486	116,986	121,665	126,532	689,829	-	-
Sanitary Sewer Rehabilitation	-	520,000	540,800	562,432	584,929	608,326	632,660	3,449,147	-	-
Subtotal	$ -	$ 674,000	$ 648,960	$ 674,918	$ 760,408	$ 729,991	$ 759,192	$ 4,247,469	$ 50,000	$ -
Total	**$ 20,062,527**	**$ 1,794,000**	**$ 3,229,136**	**$ 1,244,918**	**$ 2,718,819**	**$ 2,804,589**	**$ 4,284,365**	**$ 16,075,827**	**$ 886,247**	**$ 7,397,922**

Table 11-2: 2014-2019 Funding Summary By Department (Cont.)

PUBLIC WORKS - WATER UTILITY

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement										
Betasso Water Treatment Facility	$ 17,720,903	$ 600,000	$ 1,049,628	$ 15,621,275	$ -	$ 350,000	$ -	$ 17,620,903	$ 100,000	$ -
Boulder Canyon Hydro	4,859,475	125,000	-	-	-	-	-	125,000	4,734,475	-
Boulder Reservoir Water Treatment Facility - Funded	246,000	82,000	-	164,000	-	-	-	246,000	-	-
Barker Dam and Reservoir	498,560	-	378,560	-	-	-	-	378,560	120,000	-
Lakewood Hydroelectric / Pressure Reducing Facility	400,000	-	100,000	-	-	-	300,000	400,000	-	-
Barker Dam Outlet	8,572,652	-	-	75,000	772,514	7,725,138	-	8,572,652	-	-
Utility Billing Computer System Replacement	1,046,700	-	-	-	1,000,000	-	-	1,000,000	46,700	-
Green Lake 2 Dam	4,835,130	-	-	-	-	432,739	4,327,391	4,760,130	75,000	-
Lakewood Dam	124,707	-	-	-	-	124,707	-	124,707	-	-
Pearl Street Hydroelectric / Pressure Reducing Facility	267,664	-	-		-	24,333	243,331	267,664	-	-
Wittemyer Ponds - Funded	573,735	-	-	-	-	100,000	473,735	573,735	-	-
Subtotal	$ 39,145,526	$ 807,000	$ 1,528,188	$ 15,860,275	$ 1,772,514	$ 8,756,917	$ 5,344,457	$ 34,069,351	$ 5,076,175	$ -
Capital Maintenance										
Barker Gravity Pipeline Repair	$ -	$ 364,000	$ 378,560	$ 667,416	$ 612,436	$ 636,933	$ 662,410	$ 3,321,755	$ -	$ -
Lakewood Pipeline	576,330	260,000	-	-	-	-	316,330	576,330	-	-
Waterline Replacement	14,486,418	2,184,000	2,271,360	2,362,214	2,456,703	2,554,971	2,657,170	14,486,418	-	-
Watershed Improvements	240,000	80,000	80,000	80,000	-	-	-	240,000	-	-
Kohler Storage Tank	1,138,362	-	103,487	1,034,875	-	-	-	1,138,362	-	-
Betasso Hydroelectric / Pressure Reducing Facility	100,000	-	-	100,000	-	-	-	100,000	-	-
Barker-Kossler Penstock Repair	116,986	-	-	-	116,986	-	-	116,986	-	-
Betasso Storage Tank	292,465	-	-	-	292,465	-	-	292,465	-	-
Sunshine Hydroelectric / Pressure Reducing Station	271,875	-	-	-	271,875	-	-	271,875	-	-
Water Transmission Facilities (Zone 2)	250,000	-	-	-	250,000	-	-	250,000	-	-
Water Transmission Facilities (Zone 1)	250,000	-	-	-	-	250,000	-	250,000	-	-
Water Transmission Facilities (Zone 3)	250,000	-	-	-	-	-	250,000	250,000	-	-
Subtotal	$ 17,972,436	$ 2,888,000	$ 2,833,407	$ 4,244,505	$ 4,000,465	$ 3,441,904	$ 3,885,910	$ 21,294,191	$ -	$ -
Capital Planning Studies										
Albion Dam - Funded	$ 80,000	$ 80,000	$ -	$ -	$ -	$ -	$ -	$ 80,000	$ -	$ -
Subtotal	$ 80,000	$ 80,000	$ -	$ -	$ -	$ -	$ -	$ 80,000	$ -	$ -

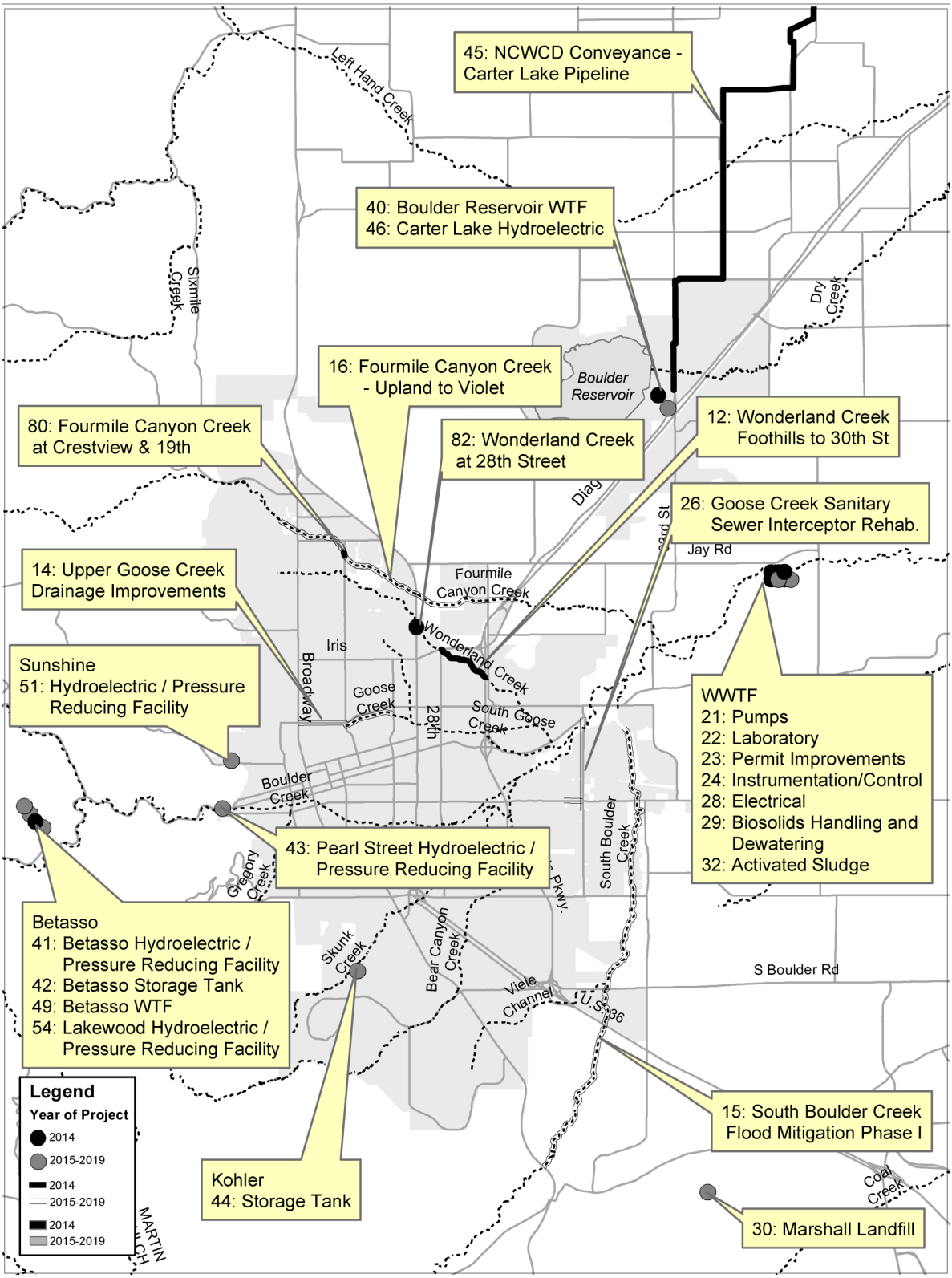
Table 11-2: 2014-2019 Funding Summary By Department (Cont.)

PUBLIC WORKS - WATER UTILITY (Cont.)

	Estimated Total Cost	2014 Approved	2015 Projected	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2014 - 2019 Total	Previously Allocated Funding	Unfunded Amount
New Capital Project										
NCWCD Conveyance - Carter Lake Pipeline	$ 31,174,987	$ 250,000	$ 500,000	$ 850,000	$ 2,737,469	$ 25,874,690	$ -	$ 30,212,159	$ 962,828	$ -
Barker Dam Hydroelectric	4,024,805	-	-	50,000	361,346	3,613,459	-	4,024,805	-	-
Source Water Monitoring	293,200	-	-	50,000	50,000	50,000	50,000	200,000	93,200	-
Carter Lake Hydroelectric	2,800,000	-	-	-	50,000	250,000	2,500,000	2,800,000	-	-
Subtotal	$ 38,292,992	$ 250,000	$ 500,000	$ 950,000	$ 3,198,815	$ 29,788,149	$ 2,550,000	$ 37,236,964	$ 1,056,028	$ -
Total	**$ 95,490,954**	**$ 4,025,000**	**$ 4,861,595**	**$ 21,054,780**	**$ 8,971,794**	**$ 41,986,970**	**$ 11,780,367**	**$ 92,680,506**	**$ 6,132,203**	**$ -**

City of Boulder Captial Improvement Projects, 2014 - 2019

PW/ Utilities (Storm, Waste, Water)



Project Name: Preflood Property Acquisition

Project at a Glance

Project Type:	Land and Asset Acquisition		
Department:	PW/ Stormwater and Flood Managem	**Subcommunity:**	System-wide
Project Number:	431622	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project provides on-going funding for the purchase of properties in areas prone to flooding especially the city's high hazard regulatory area. Properties have been identified and prioritized along each of the city's major drainageways. Property owners have been contacted regarding the city's interest. The city periodically updates its flood mapping to reflect changing conditions and improvements in flood modeling. The highest risk properties are identified for purchase, based on updated mapping for each of the drainageways.

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

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Property owners have been contacted regarding the city's interest in purchasing.

Relationship with Other Departments

This project relates to the city's Greenways Program, Transportation and Parks and Recreation.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($3,283,000)
Total Unfunded	

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Stormwater & Flood Management Utility Fund	$0	$500,000	$500,000	$500,000	$550,000	$600,000	$633,000
Total Funding Plan	**$3,283,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: South Boulder Creek Flood Mitigation Phase I

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Stormwater and Flood Managem	**Subcommunity:**	Multiple Subcommunities
Project Number:	431202	**BVCPArea:**	System-wide
CEAP Required:	Yes	**Map Number:**	15
		CEAP Status:	No

Project Description

This project is to mitigate flooding along South Boulder Creek from U.S. 36 to the confluence with Boulder Creek, based on recommendations in the Comprehensive Flood and Stormwater Master Plan. Flood mitigation alternatives have been evaluated and a draft recommendation is currently going through a public review process. Information has been presented in two open houses, twice to the Water Resources Advisory Board (WRAB) and at several stakeholder meetings. The proposed alternative includes construction of a regional flood detention facility located just south of US36, along with downstream capacity improvements. This alternative would eliminate the overtopping of US36 during a 100-year storm event and greatly reduce downstream flood risks.

It is anticipated that the project will be designed and constructed in three phases, each approximately $15 million. The recommended first phase would construct the regional flood detention facility at US36. Funding shown in the CIP is for the first phase and is intended as seed money in the hopes of securing outside grants or federal money to complete the selected alternative.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The project has been presented to the public in two open houses, twice to the Water Resources Advisory Board (WRAB) and several stakeholder meetings. Following further refinement of the recommended alternative, the city will conduct an open house, coordinate with stakeholders, and present to the WRAB and City Council. These remaining public processes are anticipated to occur in late 2013 and early 2014.

Relationship with Other Departments

Transportation, Planning, Open Space, Boulder County, University of Colorado, Boulder Valley School District

Change from Past CIP

moved from 2015 to 2017

Estimated Total Cost

Project Cost

Planning	$1,000,000
Acquisition	$4,000,000
Construction	$10,875,000
Total Project Cost	**$15,875,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$15,875,000
Funding Total	($5,875,000)
Total Unfunded	**$10,000,000**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Stormwater & Flood Management Utility Fund	$300,000	$0	$0	$0	$5,575,000	$0	$0
Total Funding Plan	**$5,875,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Storm Sewer Rehabilitation

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Stormwater and Flood Managem	**Subcommunity:**	System-wide
Project Number:	431760	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

The project provides funds for the rehabilitation of existing storm sewers. This project is for an ongoing funding program. The program is funded at $250,000 per year (2013) escalated by an inflation index for future years.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

Transportation Division

Change from Past CIP

Added 2019 funding

Estimated Total Cost

Project Cost

Planning	$0
Acquisition	$0
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Stormwater & Flood Management Utility Fund		$260,000	$270,400	$281,216	$292,465	$304,163	$316,330
Total Funding Plan							

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Stormwater Quality Improvements

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Stormwater and Flood Managem	**Subcommunity:**	System-wide
Project Number:	431775	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project will fund stormwater quality projects as identified in the Stormwater Master Plan to improve water quality in Boulder Creek and it's tributaries. This project is for an ongoing funding program. The program is funded at $100,000 per year (2013) escalated by an inflation index for future years.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

Transportation Division

Change from Past CIP

Added 2014-2019 funding

Estimated Total Cost

Project Cost

Planning
Acquisition
Construction

Total Project Cost

Unfunded Amount

Unfunded Amount

Project Cost Total
Funding Total

Total Unfunded $0

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Stormwater & Flood Management Utility Fund		$104,000	$108,160	$112,486	$116,986	$121,665	$126,532
Total Funding Plan							

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Transportation Coordination

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Stormwater and Flood Managem	**Subcommunity:**	System-wide
Project Number:	431780	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project will fund the reconstruction of existing storm sewers, the construction of new storm sewers and water quality improvements as part of on-going Transportation Division improvement projects. This project is for an ongoing funding program. The program is funded at $250,000 per year (2013) escalated by an inflation index for future years.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

Coordination with the City's Transportation Division

Change from Past CIP

Added 2019 funding

Estimated Total Cost

Project Cost

Planning	
Acquisition	$0
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Stormwater & Flood Management Utility Fund		$260,000	$270,400	$281,216	$292,465	$304,163	$316,330
Total Funding Plan							

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Upper Goose Creek Drainage

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Stormwater and Flood Managem	**Subcommunity:**	Central Boulder
Project Number:	431459	**BVCPArea:**	Area I
CEAP Required:	Yes	**Map Number:**	14
		CEAP Status:	No

Project Description

This project will fund the construction of a drainage improvements in the Upper Goose Creek drainage between 9th and 19th Streets. City staff has observed localized flooding in this area. The scope and need for this project has been confirmed by the recently completed Stormwater Master Plan.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The public process will be initiated in 2012.

Relationship with Other Departments

Coordination with the City's Transportation Division

Change from Past CIP

Added 2019 funding

Estimated Total Cost

Project Cost

Planning	$2,000,000
Acquisition	$0
Construction	$15,905,163
Total Project Cost	**$17,905,163**

Unfunded Amount

Unfunded Amount

Project Cost Total	$17,905,163
Funding Total	($3,425,000)
Total Unfunded	**$14,480,163**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Stormwater & Flood Management Utility Fund	$0	$0	$175,000	$750,000	$750,000	$750,000	$1,000,000
Total Funding Plan	**$3,425,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Biosolids Processing and Dewatering

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Wastewater Utility	**Subcommunity:**	Area III
Project Number:	421670	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	29
		CEAP Status:	NA

Project Description

This project will provide funds for rebuilding the biosolids dewatering centrifuges.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

$1,000,000 was removed from 2015 to delay the GT No.1 mechanism project

Estimated Total Cost

Project Cost

Planning	$0
Acquisition	$0
Construction	$150,000
Total Project Cost	**$150,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$150,000
Funding Total	($150,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund	$0	$150,000	$0	$0	$0	$0	$0
Total Funding Plan	**$150,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Wastewater Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Collection System Monitoring

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Wastewater Utility	**Subcommunity:**	System-wide
Project Number:	421450	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project provides funds for monitoring of the City's wastewater collection system. This will be accomplished by using temporary flow measuring devices placed in selected manholes. Funds have been allocated on a 5-year cycle in both 2012 and 2017. The 2014 funding is intended to supplement the 2012 funding carryover to 2013. This project is for an ongoing funding program.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Added 2014 funding

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($158,493)
Total Unfunded	

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund	$50,000	$50,000	$0	$0	$58,493	$0	$0
Total Funding Plan	**$158,493**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Wastewater Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Marshall Landfill

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Wastewater Utility	**Subcommunity:**	Area III
Project Number:		**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	30
		CEAP Status:	NA

Project Description

This project will fund the decommissioning of the Marshall Landfill Treatment Facility. The facility was originally constructed to eliminate groundwater contamination at the original landfill site. The money will be used for landfill cap maintenance and repair and demolition of the groundwater treatment facility.

Based on EPA approval, the groundwater collection system was shut down on Nov. 30, 2004. The treatment plant and collection system equipment will need to be preserved. In addition, there are approximately 180 sampling and monitoring wells located on the site, many of which are no longer used or necessary. Part of the shutdown process will entail sealing the unnecessary wells in place. This work would be required by the EPA as part of the Superfund site decommissioning process.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

No changes

Estimated Total Cost

Project Cost

Planning	$20,000
Acquisition	$0
Construction	$80,000
Total Project Cost	**$100,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$100,000
Funding Total	($100,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund	$0	$0	$0	$100,000	$0	$0	$0
Total Funding Plan	**$100,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Wastewater Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Sanitary Sewer Manhole Rehabilitation

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Wastewater Utility	**Subcommunity:**	System-wide
Project Number:	421454	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project provides for the rehabilitation and improvement to the existing wastewater manholes that are part of the city's sewer system. The program is funded at $100,000 per year (2013) escalated by an inflation index for future years. This project is for an ongoing funding program.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

Trasnportation Division

Change from Past CIP

Added 2019 funding

Estimated Total Cost

Project Cost

Planning
Acquisition
Construction

Total Project Cost

Unfunded Amount

Unfunded Amount

Project Cost Total
Funding Total

Total Unfunded

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund		$104,000	$108,160	$112,486	$116,986	$121,665	$126,532
Total Funding Plan							

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Wastewater Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Sanitary Sewer Rehabilitation

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Wastewater Utility	**Subcommunity:**	System-wide
Project Number:	421002	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project provides for the rehabilitation and improvement to the existing collector sewer piping of the City's wastewater collection system. The program is funded at $500,000 per year (2013) escalated by an inflation index for future years. This project is for an ongoing funding program.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

Transportation Division

Change from Past CIP

Added 2019 funding

Estimated Total Cost

Project Cost

Planning
Acquisition
Construction

Total Project Cost

Unfunded Amount

Unfunded Amount

Project Cost Total
Funding Total

Total Unfunded

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund		$520,000	$540,800	$562,432	$584,929	$608,326	$632,660
Total Funding Plan							

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Wastewater Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Goose Creek Sanitary Sewer Interceptor Rehabilitation

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Wastewater Utility	**Subcommunity:**	Central Boulder
Project Number:	421002	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	26
		CEAP Status:	

Project Description

This project will provide funds for rehabilitation of the Goose Creek Sanitary Sewer Interceptor, which was identified as a Tier 1 rehabilitation project in the 2009 Wastewater Collection System Master Plan (WWCSMP). An "interceptor" sewer refers to a large diameter pipe with very few connections, as opposed to a "collector" sewer which is a medium diameter pipe with numerous smaller diameter sanitary service pipe connections. This project will be funded between 2017 and 2020. The 2017 funding is for the design, while the 2018-2020 funding is for the construction. The "unfunded' amount reflected below simply refers to funding for the project beyond 2019.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Added 2019 funding

Estimated Total Cost

Project Cost

Planning	$300,000
Acquisition	$0
Construction	$2,989,851
Total Project Cost	**$3,289,851**

Unfunded Amount

Unfunded Amount

Project Cost Total	$3,289,851
Funding Total	($1,942,864)
Total Unfunded	**$1,346,987**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund	$0	$0	$0	$0	$25,000	$622,683	$1,295,181
Total Funding Plan	**$1,942,864**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Wastewater Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Wastewater Treatment Facility Activated Sludge

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Wastewater Utility	**Subcommunity:**	Area III
Project Number:	421357	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	32
		CEAP Status:	NA

Project Description

This project will fund the rehabilitation of part of the existing activated sludge facilities at the 75th Street WWTF. The activated sludge facilities refers to the facility's primary biological treatment process. The 2015 funding is to add flexible membrane diffusers to the SCC tanks. The 2017 funding is to provide maintenance on the three Siemens blowers which provide the air to the aeration basins.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Added 2015 funding for SCC diffusers, and 2017 funding for blowers tune-up

Estimated Total Cost

Project Cost

Planning	$70,000
Acquisition	$0
Construction	$640,961
Total Project Cost	**$710,961**

Unfunded Amount

Unfunded Amount

Project Cost Total	$710,961
Funding Total	($447,869)
Total Unfunded	**$263,092**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund	$0	$0	$389,376	$0	$58,493	$0	$0
Total Funding Plan	**$447,869**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Wastewater Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Wastewater Treatment Facility Electrical

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Wastewater Utility	**Subcommunity:**	Area III
Project Number:	421439	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	28
		CEAP Status:	NA

Project Description

This project will fund the rehabilitation of the existing electrical systems at the 75th Street WWTF. This project will include the replacement of numerous major electrical components. The 2014 funding is for the solids processing motor control centers (MCC's). The 2016 and 2017 funding is for the design and construction respectively for various MCC's, load centers and co-gen switchgear.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

2016 and 2017 funding was increased by $40,000 and $400,000 respectively

Estimated Total Cost

Project Cost

Planning	$100,000
Acquisition	$0
Construction	$1,320,000
Total Project Cost	**$1,420,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,420,000
Funding Total	($1,420,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund	$0	$100,000	$0	$120,000	$1,200,000	$0	$0
Total Funding Plan	**$1,420,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Wastewater Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Wastewater Treatment Facility Instrumentation/Control

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Wastewater Utility	**Subcommunity:**	System-wide
Project Number:	421437	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	24
		CEAP Status:	NA

Project Description

This project will fund the rehabilitation and/or replacement of instrumentation & control facilities at the 75th Street WWTF. These recommendations are based on the 2013 Process Automation System (PAS) Strategic Plan.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Added 2014-2019 funding (except 2016) per PAS study recommendations

Estimated Total Cost

Project Cost

Planning	$900,000
Acquisition	$0
Construction	$8,231,068
Total Project Cost	**$9,131,068**

Unfunded Amount

Unfunded Amount

Project Cost Total	$9,131,068
Funding Total	($3,343,225)
Total Unfunded	**$5,787,843**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund	$175,600	$520,000	$540,800	$0	$674,918	$701,915	$729,992
Total Funding Plan	**$3,343,225**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: Wastewater Treatment Facility Laboratory

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Wastewater Utility	**Subcommunity:**	Area III
Project Number:		**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	22
		CEAP Status:	

Project Description

This project will provide funds for the rehabilitation and improvement of the existing chemical/biological laboratory and the 75th St. WWTF. The funds will be used for the replacements of counters, sinks, cabinets, and other laboratory equipment.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

$50,000 funding was moved from 2015 to 2016

Estimated Total Cost

Project Cost

Planning	$10,000
Acquisition	$0
Construction	$90,000
Total Project Cost	**$100,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$100,000
Funding Total	($100,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund	$50,000	$0	$0	$50,000	$0	$0	$0
Total Funding Plan	**$100,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Wastewater Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Wastewater Treatment Facility Permit Improvements - Funded

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Wastewater Utility	**Subcommunity:**	Area III
Project Number:	421617	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	23
		CEAP Status:	NA

Project Description

This project is intended to address additional WWTF facilities required to meet new effluent regulations identified in the 2011 Colorado Discharge Permit System (CDPS) Permit. In March 2011 the city received a new discharge permit for the 75th Street wastewater treatment facility (WWTF) with an effective date of May 1, 2011. The 2014-2016 funding is to address the current permit. The 2017-2019 funding is to address planning/design needs associated with the anticipated Colorado Department of Public Health and Environment Regulation 85 permit requirements.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

All funding years were modified to refect the NCS recommendations

Estimated Total Cost

Project Cost

Planning	$3,062,234
Acquisition	$0
Construction	$1,650,000
Total Project Cost	**$4,712,234**

Unfunded Amount

Unfunded Amount

Project Cost Total	$4,712,234
Funding Total	($4,712,234)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund	$462,234	$200,000	$1,650,000	$150,000	$0	$750,000	$1,500,000
Total Funding Plan	**$4,712,234**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Wastewater Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Wastewater Treatment Facility Pumps

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Wastewater Utility	**Subcommunity:**	Area III
Project Number:	411339	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	21
		CEAP Status:	NA

Project Description

This project will fund the rehabilitation of existing pumps at the 75th Street WWTF. The 2014 funding is for the secondary pump station including the variable frequency drives (VFD's). The 2016 funding is for future pumps based on the asset management needs.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

No changes

Estimated Total Cost

Project Cost

Planning	$40,000
Acquisition	$0
Construction	$408,413
Total Project Cost	**$448,413**

Unfunded Amount

Unfunded Amount

Project Cost Total	$448,413
Funding Total	($448,413)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Wastewater Utility Fund	$148,413	$150,000	$0	$150,000	$0	$0	$0
Total Funding Plan	**$448,413**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Wastewater Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Albion Dam - Funded

Project at a Glance

Project Type:	Capital Planning Studies		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:		**BVCPArea:**	Outside Planning Area
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project will provide funds for the evaluation of alternatives for the rehabilitation of Albion Dam, located in the City's Watershed. The downstream face of Albion Dam is in poor condition and continues to degrade. Design and construction costs inflated at a 4% annual rate are currently projected in 2022- 23 with a total estimated cost of $4,477,446.

The evaluation/planning phase of the project will begin in 2014 and be completed in 2015. Upper Catchment Dams were identified in the Source Water Master Plan as requiring maintenance, structural improvements and safety system improvements in order to maintain the exixting senior city storage rights.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Yes - shifted up one year due to State Engineer's comments on d/s face leakage.

Estimated Total Cost

Project Cost

Planning	$80,000
Acquisition	
Construction	
Total Project Cost	**$80,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$80,000
Funding Total	($80,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$80,000	$0	$0	$0	$0	$0
Total Funding Plan	**$80,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Barker Dam and Reservoir

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:	411110	**BVCPArea:**	Outside Planning Area
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project will provide funds for deficiency corrections at the existing Barker Dam, including security related projects.

This project will begin in 2015. The project is anticipated to complete construction in 2016.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$60,000
Acquisition	
Construction	$438,560
Total Project Cost	**$498,560**

Unfunded Amount

Unfunded Amount

Project Cost Total	$498,560
Funding Total	($498,560)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$120,000	$0	$378,560	$0	$0	$0	$0
Total Funding Plan	**$498,560**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Barker Dam Hydroelectric

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:		**BVCPArea:**	Outside Planning Area
CEAP Required:	Yes	**Map Number:**	0
		CEAP Status:	No

Project Description

Design and construction of a new hydroelectric facility to be integrated into the Barker Dam Outlet Works Project. The anticipated capacity is 1.5 megawatts total. Alternative approaches to the project will be considered by City staff and technical consultants as part of a technical analysis to be initiated in 2016. Information regarding the alternative approaches will be provided as part of the CEAP which has not been started yet.

This project will begin in 2017. The project is anticipated to complete construction in 2019.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The CEAP will be initiated in 2016

Relationship with Other Departments

Energy Utility Office

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$411,346
Acquisition	
Construction	$3,613,459
Total Project Cost	**$4,024,805**

Unfunded Amount

Unfunded Amount

Project Cost Total	$4,024,805
Funding Total	($4,024,805)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$50,000	$361,346	$3,613,459	$0
Total Funding Plan	**$4,024,805**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $37,000 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

Operating costs will be offset by increased hydroelectric revenue.

Project Name: Barker Dam Outlet

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:	411109	**BVCPArea:**	Outside Planning Area
CEAP Required:	Yes	**Map Number:**	0
		CEAP Status:	No

Project Description

This project will provide funds for the replacement of the existing outlet works system of Barker Dam. The Barker Dam outlet facilities are over 100-years old and in need of significant rehabilitation. The current configuration of the outlet gates requires that Barker Reservoir be nearly emptied to perform a thorough inspection once every 5-10 years. Reconfiguration of the outlet facilities would potentially eliminate the need to empty the reservoir for gate inspection. As currently envisioned, the project would require construction of a vertical shaft near the north embankment, inlet tunnels and one outlet tunnel, an outlet distribution facility, a pipeline to Barker Gravity Line, and valve house. The outlet facilities would provide the opportunity to develop a hydroelectric generation facility as well. Alternative approaches to the project will be considered by City staff and technical consultants as part of a technical analysis to be initiated in 2016. Information regarding the alternative approaches will be provided as part of the CEAP.

This project will begin in 2016. The project is anticipated to complete construction in 2019.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The CEAP will be initiated in 2016.

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$847,514
Acquisition	
Construction	$7,725,138
Total Project Cost	**$8,572,652**

Unfunded Amount

Unfunded Amount

Project Cost Total	$8,572,652
Funding Total	($8,572,652)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$75,000	$772,514	$7,725,138	$0
Total Funding Plan	**$8,572,652**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Barker Gravity Pipeline Repair

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:	411106	**BVCPArea:**	Outside Planning Area
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project will provide funds for ongoing repairs to the existing Barker gravity pipeline. Barker Gravity Pipeline is a critical component of the city's source water system because it conveys the city's Barker Reservoir/Middle Boulder Creek water to Betasso Water Treatment Plant (WTP). Stored water from Barker Reservoir and direct flows from Middle Boulder Creek are used to meet approximately 35 percent of the city's annual water needs. The city has, as part of an ongoing maintenance effort, already replaced and rehabilitated segments of the 11-mile Barker Gravity Pipeline that demonstrated the most degradation in condition or highest likelihood of failure. It is recommended the City continue its annual maintenance program, prioritizing based on the most critical needs, and also consider providing enough earthen cover to protect the pipeline, and anchor the pipeline in areas prone to landslides or other damaging events. Section replacement or specific lining techniques are options that may each work well in different parts of the pipeline depending on access considerations. The city will continue to coordinate with the USFS concerning maintenance activities on federal land. The projected funds will allow for continued minor rehabilitation efforts (repair of leaks, siphons, etc, as has been done over the past several years) and an evaluation of pilot replacement/lining alternatives through 2016 with continued mainatence evry year through 2019.

In addition, the funding for this project in 2016 will also support on-going Federal permitting issues associated with the Barker Water System. A request has been made to convert the current Federal Energy Regulatory Commission(FERC) licensed project to a FERC small conduit exemption from licensing. There are significant technical and legal analysis and documentation required to support this request and to obtain a separate land use authorization (i.e. Special Use Permit) from the U.S. Forest Service for continued occupancy of federal land by the Barker Gravity Pipeline.

This project is for an ongoing funding program. In 2013, $350,000 will be spent on the project as described above and escalated in the years 2014 to 2019 to allow for continued prioritized repairs.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [ ] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	
Acquisition	
Construction	
Total Project Cost	

Unfunded Amount

Unfunded Amount

Project Cost Total	
Funding Total	($3,321,755)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$364,000	$378,560	$667,416	$612,436	$636,933	$662,410
Total Funding Plan	**$3,321,755**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Barker-Kossler Penstock Repair

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:	411107	**BVCPArea:**	Outside Planning Area
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project will provide funds for analysis and repair of the existing Barker-Kossler Penstock including the need for replacement or targeted repairs as recommended form analyses including metallurgical and corrosion experts.

This project will begin in 2017.
Costs:

1. Planning: $ 15,000
2. Land Acquisition: $ 0
3. Construction: $ 101,986

The project is anticipated to complete construction in 2017.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$16,986
Acquisition	
Construction	$100,000
Total Project Cost	**$116,986**

Unfunded Amount

Unfunded Amount

Project Cost Total	$116,986
Funding Total	($116,986)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$0	$116,986	$0	$0
Total Funding Plan	**$116,986**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Betasso Hydroelectric / Pressure Reducing Facility

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:	411974	**BVCPArea:**	Outside Planning Area
CEAP Required:	No	**Map Number:**	41
		CEAP Status:	NA

Project Description

This project will fund rehabilitations to the Betasso Hydroelectric / Pressure Reducing Facility including a required 10 year scheduled maintenance overhaul of the existing turbine-generator equipment.

This project will begin in 2016. The project is anticipated to complete construction in 2017.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$10,000
Acquisition	
Construction	$90,000
Total Project Cost	**$100,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$100,000
Funding Total	($100,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$100,000	$0	$0	$0
Total Funding Plan	**$100,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Betasso Storage Tank

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:		**BVCPArea:**	Outside Planning Area
CEAP Required:	No	**Map Number:**	42
		CEAP Status:	NA

Project Description

This project will provide funds for the rehabilitation and exterior painting of the Betasso Storage Tank. The facility is an elevated steel tank that has deteriorated due to weather and other environmental factors that primarily affect the protective paint coating. This project will begin in 2017 and is anticipated to complete construction in 2018.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$14,623
Acquisition	
Construction	$277,842
Total Project Cost	**$292,465**

Unfunded Amount

Unfunded Amount

Project Cost Total	$292,465
Funding Total	($292,465)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$0	$292,465	$0	$0
Total Funding Plan	**$292,465**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Betasso Water Treatment Facility

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:	411947	**BVCPArea:**	Outside Planning Area
CEAP Required:	No	**Map Number:**	49
		CEAP Status:	NA

Project Description

This project will provides funds for rehabilitations and improvements to the Betasso Water Treatment Facility. The Betasso is the city's primary Water Treatment Facility and has deteriorated during almost 50 years of continuous operation despite ongoing maintenance and rehabilitation. Also, pretreatment capacity limitations of the existing flocculation/sedimentation process result in residuals that comprise more water content than desired. This results in inadequate residuals dewatering capacity using the existing drying beds and lagoons. The city is currently using private contract hauling services to overcome this limitation.

Funding in 2014 will be used to fund a pre-treatment and residual study, chemical storage tanks and piping and rehabilitation of the combined influent flow meter.

Funding in 2014 and 2015 will be used for design of the major rehabilitation and improvement project.

Funding in 2016 is for the construction of the major rehabilitation and improvement project and includes:

$5,249,658 Water fund
$11,996,245 Bond Proceeds
$475,000 Bond Issuance Costs

The project is anticipated to to be completed in 2018.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Moved $600,000 from 2015 to 2014 to expedite design.

Estimated Total Cost

Project Cost

Planning	$3,624,181
Acquisition	
Construction	$14,096,722
Total Project Cost	**$17,720,903**

Unfunded Amount

Unfunded Amount

Project Cost Total	$17,720,903
Funding Total	($17,720,903)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$100,000	$600,000	$1,049,628	$15,621,275	$0	$350,000	$0
Total Funding Plan	**$17,720,903**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Boulder Canyon Hydro

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Water Utility	**Subcommunity:**	System-wide
Project Number:	411975	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	
		CEAP Status:	

Project Description

The BCH Modernization Project was completed in September 2012 and is online generating power as of June 2013. In 2014, necessary roofing and floor repairs are scheduled due to the age of the building, which were not included in the BCH Modernization Project but are required to protect the equipment and to allow for safe operation and access.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Yes - Added items for Roof and Flooring Improvements

Estimated Total Cost

Project Cost

Planning	$25,000
Acquisition	
Construction	$4,834,475
Total Project Cost	**$4,859,475**

Unfunded Amount

Unfunded Amount

Project Cost Total	$4,859,475
Funding Total	($4,859,475)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$4,734,475	$125,000	$0	$0	$0	$0	$0
Total Funding Plan	**$4,859,475**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: Boulder Reservoir Water Treatment Facility - Funded

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Water Utility	**Subcommunity:**	Gunbarrel
Project Number:	411652	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	40
		CEAP Status:	NA

Project Description

This project will provide funds for on-going maintenance and rehabilitation of the Boulder Reservoir Water Treatment Facility. Funding in 2014 and 2016 will be used to replace effluent flow meters, chemical feed and process controls, pressure and flow instruments and filter controls.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$24,600
Acquisition	$0
Construction	$221,400
Total Project Cost	**$246,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$246,000
Funding Total	($246,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$82,000	$0	$164,000	$0	$0	$0
Total Funding Plan	**$246,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Carter Lake Hydroelectric

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Water Utility	**Subcommunity:**	Gunbarrel
Project Number:		**BVCPArea:**	Area I
CEAP Required:	Yes	**Map Number:**	46
		CEAP Status:	No

Project Description

This project provides funds for the planning,design and construction of a potential new hydroelectric facility at or near the Boulder Reservoir Water Treatment Facility. The possibility of this facility would be made available by the construction of the Carter Lake Pipeline Project as the pipeline head pressure would have to be dissipated before flowing into the Water Treatment Facility. Funding allocated in the current CIP is for planning, design and construction.

This project will begin in 2017 with an Alternatives Study and the CEAP process.
Costs:

1. Planning and Design: $ 300,000 (2017 and 2018)
2. Land Acquisition: $ 0
3. Construction: $ 2,500,000 (2019 Bond)

The project is anticipated to complete construction in 2020.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The CEAP will be initiated in 2017.

Relationship with Other Departments

Energy Utility Office

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$300,000
Acquisition	
Construction	$2,500,000
Total Project Cost	**$2,800,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$2,800,000
Funding Total	($2,800,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$0	$50,000	$250,000	$2,500,000
Total Funding Plan	**$2,800,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget (needs to be confirmed)

Project Name: Green Lake 2 Dam

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:	411627	**BVCPArea:**	Outside Planning Area
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project will provide funds for the evaluation of alternatives and design of the rehabilitation of Green Lake 2 Dam, located in the City's Watershed. Green Lake 2 Dam is in need of extensive rehabilitation to allow continued storage of water. 2013 funds are for evaluation of alternatives. Funding allocated in the current CIP is for design and construction.

This project will begin in 2013 and is estimated to cost a total of $4,835,130 including construction and prior funding. The project is anticipated to complete construction in 2021.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$507,739
Acquisition	
Construction	$4,327,391
Total Project Cost	**$4,835,130**

Unfunded Amount

Unfunded Amount

Project Cost Total	$4,835,130
Funding Total	($4,835,130)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$75,000	$0	$0	$0	$0	$432,739	$4,327,391
Total Funding Plan	**$4,835,130**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Kohler Storage Tank

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	South Boulder
Project Number:	411671	**BVCPArea:**	Area I
CEAP Required:	No	**Map Number:**	44
		CEAP Status:	NA

Project Description

This project will provide funds for the design and rehabilitation of the Kohler Storage Tank roofing system and siding to seal the tank from the outside environment. This project will begin in 2015 and is anticipated to complete construction in 2016.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$103,487
Acquisition	
Construction	$1,034,875
Total Project Cost	**$1,138,362**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,138,362
Funding Total	($1,138,362)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$103,487	$1,034,875	$0	$0	$0
Total Funding Plan	**$1,138,362**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Lakewood Dam

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:	411981	**BVCPArea:**	Outside Planning Area
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project will provide funds for security improvements at Lakewood Reservoir that are required to update to the level of all city facilities subject to public access and as recommended in the Source Water Master Plan and subsequent consultant reports.

This project will begin in 2018. The project is anticipated to complete construction in 2019.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$10,000
Acquisition	
Construction	$114,707
Total Project Cost	**$124,707**

Unfunded Amount

Unfunded Amount

Project Cost Total	$124,707
Funding Total	($124,707)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$0	$0	$124,707	$0
Total Funding Plan	**$124,707**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget.

Project Name: Lakewood Hydroelectric / Pressure Reducing Facility

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Water Utility	**Subcommunity:**	Area III
Project Number:	411801	**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	54
		CEAP Status:	NA

Project Description

This project provides funds for the rehabilitation of the Lakewood Turbine Generator and Pressure Reducing Valve (PRV). The Turbine Generator is scheduled to be over-hauled in 2015 and the PRV valve will be taken offline and a major over-haul will be completed per manufactures recommendations in 2019.

This project will begin in 2015 with the Turbine Generator Over-Haul.
Costs (2015):

1. Planning: $ 10,000
2. Land Acquisition: $ 0
3. Construction: $ 90,000

The generator project is anticipated to complete construction in 2016.

PRV Valve Overhaul Costs (2019):
1. Planning: $ 30,000
2. Land Acquisition: $ 0
3. Construction: $ 270,000

The Lakewood PRV project is anticipated to complete construction in 2019.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Yes - shifted out to 2015 due to satisfactory operation.

Estimated Total Cost

Project Cost

Planning	$40,000
Acquisition	
Construction	$360,000
Total Project Cost	**$400,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$400,000
Funding Total	($400,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$100,000	$0	$0	$0	$300,000
Total Funding Plan	**$400,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

To be determined, operating costs will be offset by increased hydroelectric revenue.

Project Name: Lakewood Pipeline

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:	411780	**BVCPArea:**	Outside Planning Area
CEAP Required:	Yes	**Map Number:**	0
		CEAP Status:	Yes

Project Description

Funds have been budgeted in 2014 for re-inspection of the Lakewood Pipeline due to concerns with the original pipeline construction. Based on observations made during the 2009 inspection it is recommended that the frequency of inspections be reduced to one every five years. No funds have been budgeted for pipeline repair costs. Funds would be transferred from the Lakewood Pipeline Remediation Reserve to cover the costs.

Estimated costs are determined from intial estimate in 2008 for inspections costing $250,000 every 5 years and escalated from the year of the estimate (2008).

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$30,000
Acquisition	$0
Construction	$546,330
Total Project Cost	**$576,330**

Unfunded Amount

Unfunded Amount

Project Cost Total	$576,330
Funding Total	($576,330)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$260,000	$0	$0	$0	$0	$316,330
Total Funding Plan	**$576,330**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: NCWCD Convevance - Carter Lake Pipeline

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:	411547	**BVCPArea:**	Outside Planning Area
CEAP Required:	Yes	**Map Number:**	45
		CEAP Status:	No

Project Description

This project will provide funds for the planning, design and construction of a pipeline from Carter Lake to the Boulder Reservoir Water Treatment Facility. The Pipeline is considered the best long-term solution to water quality, operational and security vulnerability issues related to drawing water directly from either the Boulder Feeder Canal or Boulder Reservoir. The pipeline construction and alignment was approved by Boulder County under the 1041 permit process in 2012 and a significant portion of the right-of-way was acquired. Acquisition of additional easements is anticipated in 2014-2016. Information from the 1041 permit will be incorporated into the CEAP document. The Northern Colorado Water Conservancy District is the lead agency and the City of Boulder and the Left Hand Water District are project participants. The pipeline would also provide the opportunity to develop a hydroelectric generation facility. No additional O&M expenses is anticipated since the pipeline will be owned by the NCWCD and water delivery charges should not change because of the pipeline.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

A 1041 permit application for this project has ben submitted to Boulder County and it is anticipated a permit will be issued in 2012. Information from the 1041 permit will be incorporated into the CEAP.

Relationship with Other Departments

None

Change from Past CIP

Money reallocated from construction in 2018 to land acquisition in 2014-2016

Estimated Total Cost

Project Cost

Planning	$3,050,297
Acquisition	$2,250,000
Construction	$25,874,690
Total Project Cost	**$31,174,987**

Unfunded Amount

Unfunded Amount

Project Cost Total	$31,174,987
Funding Total	($31,174,987)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$962,828	$250,000	$500,000	$850,000	$2,737,469	$25,874,690	$0
Total Funding Plan	**$31,174,987**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

To Be Determined

Project Name: Pearl Street Hydroelectric / Pressure Reducing Facility

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Water Utility	**Subcommunity:**	Area III
Project Number:		**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	43
		CEAP Status:	NA

Project Description

This project provides for the installation of a hydoelectric turbine and generator at the city's Pearl Street pressure reducing facility. Currently water pressure is reduced using a pressure reducing valve which wastes the available energy in the water. This energy could be used to produce electricity and the project would add hydroelectric generation to the facility. This project will begin in 2018 and is anticipated to complete construction in 2020.

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

Energy Utility Office

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$24,333
Acquisition	
Construction	$243,331
Total Project Cost	**$267,664**

Unfunded Amount

Unfunded Amount

Project Cost Total	$267,664
Funding Total	($267,664)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0		$0	$24,333	$243,331
Total Funding Plan	**$267,664**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

To be determined, operating costs will be offset by increased hydroelectric revenue.

Project Name: Source Water Monitoring

Project at a Glance

Project Type:	New Capital Project		
Department:	PW/ Water Utility	**Subcommunity:**	System-wide
Project Number:		**BVCPArea:**	
CEAP Required:	No	**Map Number:**	
		CEAP Status:	NA

Project Description

To be consistent with the Source Water Master Plan reccomendations and new agency directives for measuring water allocations; city staff will improve flow measurement and water quality sampling systems for source water system. This project, though not previously included in the 2013-2018 CIP, began in 2013. Costs include design and construction of the various potential system improvements.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

Relationship with Other Departments

Change from Past CIP

new, as required to update flow measurement and instrumentation. Began in 2013.

Estimated Total Cost

Project Cost

Planning	$30,000
Acquisition	
Construction	$263,200
Total Project Cost	**$293,200**

Unfunded Amount

Unfunded Amount

Project Cost Total	$293,200
Funding Total	($293,200)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$93,200	$0	$0	$50,000	$50,000	$50,000	$50,000
Total Funding Plan	**$293,200**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:**

Additional Annual O&M Description:

Project Name: Sunshine Hydroelectric / Pressure Reducing Station

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	Area III
Project Number:		**BVCPArea:**	Area III
CEAP Required:	No	**Map Number:**	51
		CEAP Status:	No

Project Description

This project will provide funds for the rehabilitation of the Sunshine Hydro/PRV Station including flow meter and rehabilitation or replacement of the existing control system. This project will begin in 2017 and is anticipated to complete construction in 2018.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated

Relationship with Other Departments

None

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$27,188
Acquisition	
Construction	$244,687
Total Project Cost	**$271,875**

Unfunded Amount

Unfunded Amount

Project Cost Total	$271,875
Funding Total	($271,875)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$0	$271,875	$0	$0
Total Funding Plan	**$271,875**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Utility Billing Computer System Replacement

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Water Utility	**Subcommunity:**	System-wide
Project Number:	411453	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	

Project Description

This project is for the replacement of the existing Utility Billing Computer System. The project is expected to begin in 2017 and be completed in 2018.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☑ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

This project will be coordinated with IT and Finance.

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$104,104
Acquisition	$0
Construction	$942,596
Total Project Cost	**$1,046,700**

Unfunded Amount

Unfunded Amount

Project Cost Total	$1,046,700
Funding Total	($1,046,700)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$29,104	$0	$0	$0	$500,000	$0	$0
Stormwater & Flood Management Utility Fund	$0	$0	$0	$0	$250,000	$0	$0
Wastewater Utility Fund	$17,596	$0	$0	$0	$250,000	$0	$0
Subtotal All Funds	$46,700	$0	$0	$0	$1,000,000	$0	$0

Total Funding Plan **$1,046,700**

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Existing operating budget

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Water Transmission Facilities (Zone 1)

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	Multiple Subcommunities
Project Number:	411002	**BVCPArea:**	Areas I & II
CEAP Required:	No	**Map Number:**	
		CEAP Status:	NA

Project Description

This project provides for the rehabilitation and improvement to the Zone 1 transmission piping of the city's water system. An extensive network of transmission piping exists, some of which is over 50 years old. It is projected this piping will require replacement or other rehabilitation. In some cases deficiencies in this system have been identified due to fire flow requirements of the Insurance Services Office (ISO).

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated

Relationship with Other Departments

Transportation

Change from Past CIP

Funding added for inspection and rehabilitation of transmission lines.

Estimated Total Cost

Project Cost

Planning	$50,000
Acquisition	
Construction	$200,000
Total Project Cost	**$250,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$250,000
Funding Total	($250,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$0	$0	$250,000	$0
Total Funding Plan	**$250,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Water Transmission Facilities (Zone 2)

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	System-wide
Project Number:	411004	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	
		CEAP Status:	NA

Project Description

This project provides for the rehabilitation and improvement to the Zone 2 transmission piping of the city's water system. An extensive network of transmission piping exists, some of which is over 50 years old. It is projected this piping will require replacement or other rehabilitation.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

Transportation

Change from Past CIP

Funding added for inspection and rehabilitation of transmission lines.

Estimated Total Cost

Project Cost

Planning	$50,000
Acquisition	
Construction	$200,000
Total Project Cost	**$250,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$250,000
Funding Total	($250,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$0	$250,000	$0	$0
Total Funding Plan	**$250,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Water Transmission Facilities (Zone 3)

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	System-wide
Project Number:	411005	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	
		CEAP Status:	NA

Project Description

This project provides for the rehabilitation and improvement to the Zone 3 transmission piping of the city's water system. An extensive network of transmission piping exists, some of which is over 50 years old. It is projected this piping will require replacement or other rehabilitation. In some cases deficiencies in this system have been identified due to fire flow requirements of the Insurance Services Office (ISO).

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

Transportation

Change from Past CIP

Funding added for inspection and rehabilitation of transmission lines.

Estimated Total Cost

Project Cost

Planning	$50,000
Acquisition	
Construction	$200,000
Total Project Cost	**$250,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$250,000
Funding Total	($250,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$0	$0	$0	$250,000
Total Funding Plan	**$250,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Waterline Replacement

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	System-wide
Project Number:	411389	**BVCPArea:**	System-wide
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project provides funds for the annual reconstruction of waterlines that are part of the city's water distribution system. Many of the city's existing waterlines are corroded or otherwise deteriorated and must be replaced. The city currently experiences approximately 60-80 main breaks per year and these cause unplanned outages in water service as well as disruption to vehicle travel and damage to public and private property. Although the number of main breaks is not considered excessive, the average age of the city's distribution system is over 40 years and it is anticipated that substantial funds will be required to maintain a functioning water distribution system over time. In some cases deficiencies in this system have been identified due to fire flow requirements of the Insurance Services Office (ISO).

Funding for annual waterline replacement continues at a rate of $2,100,000 in 2012 dollars, escalated by an inflation index annually. This should be sufficient to maintain the current service level, as defined by water main breaks, over the next decade.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

Transportation Division

Change from Past CIP

Estimated Total Cost

Project Cost

Planning	$1,448,642
Acquisition	
Construction	$13,037,776
Total Project Cost	**$14,486,418**

Unfunded Amount

Unfunded Amount

Project Cost Total	$14,486,418
Funding Total	($14,486,418)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$2,184,000	$2,271,360	$2,362,214	$2,456,703	$2,554,971	$2,657,170
Total Funding Plan	**$14,486,418**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Watershed Improvements

Project at a Glance

Project Type:	Capital Maintenance		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:		**BVCPArea:**	Outside Planning Area
CEAP Required:	No	**Map Number:**	0
		CEAP Status:	NA

Project Description

This project will provide funding for miscellaneous improvements in the city's Silver Lake watershed including valve and mechanical equipment upgrades as well as monitoring system rehabilitation or replacement in response to the 2008 Source Water Waster Plan recommendations.

This project will begin in 2014 at the yearly costs per year until 2016 (i.e. 3 years), as follows:

1. Planning: $ 12,000
2. Land Acquisition: $ 0
3. Construction: $ 68,000
4. Total per year: $ 80,000

The project is anticipated to be completed in 2016 (i.e. 3 x $ 80,000 = $ 240,000).

Relationship to Guiding Principles

- [x] Consistent with Master Plans
- [x] Achieves Community Sustainability Goals
- [x] Sufficient funds to operation and maintain
- [ ] Maintains and enhances City's business needs
- [x] Provide capacity and flexibility in long term planning to respond to needs
- [x] Sustain or improve existing assets
- [x] Maximizes efficiency
- [x] Provides sufficient reserves
- [x] Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

No additional public process is anticipated.

Relationship with Other Departments

None

Change from Past CIP

Yes - Updated a yearly improvement cost of $80,000 for 3 years starting in 2014.

Estimated Total Cost

Project Cost

Planning	$36,000
Acquisition	
Construction	$204,000
Total Project Cost	**$240,000**

Unfunded Amount

Unfunded Amount

Project Cost Total	$240,000
Funding Total	($240,000)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$80,000	$80,000	$80,000	$0	$0	$0
Total Funding Plan	**$240,000**						

Additional Annual Operations and Maintenance

Additional Annual O&M: $0 **Funding Source:** Water Utility Enterprise Fund

Additional Annual O&M Description:

No increase, funded by existing operating budget

Project Name: Wittemyer Ponds - Funded

Project at a Glance

Project Type:	Capital Enhancement		
Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Project Number:		**BVCPArea:**	Outside Planning Area
CEAP Required:	Yes	**Map Number:**	0
		CEAP Status:	No

Project Description

This project provides funding for the lining of Wittemyer Ponds based on the probability that Denver Water will receive a permit for the enlargement of Gross Reservoir in the near future. Based on the Intergovernmental Agreements (IGA) between Boulder, Lafayette and Denver Water, Boulder has agreed to use its water rights to fill the Environmental Pool to the degree that Lafayette is unable to do so with its water rights. Long term, Boulder's Open Space and Mountain Parks Department (OSMP) would provide the necessary water rights and the Water Utility would provide space in a lined Wittemyer Ponds complex. However, because OSMP currently doesn't have any water rights that can readily be used for this purpose, the Water Utility would use its CBT and Windy Gap water to the extent it doesn't affect municipal water deliveries. OSMP would pay the Utilities Division for the water that is used solely for this purpose since some of the water could be leased to downstream users. Detailed plans and studies are needed to determine how this will be accomplished. Longer term, OSMP would either change the water rights associated with some of its ditch company shares, or acquire new water. Although lining of Wittemyer is not necessarily required to get the Gross program underway, it would be useful to recapture the dedicated instream flow water. Without the lined ponds, any water used for Gross will be lost and more overall water will be needed.

Funding allocated in the current CIP is for planning and design only. Construction funding ($4,737,354 unfunded in the City 2014-2019 CIP) is allocated in the Water Utility 20-year CIP in 2020 and is expected to be fully allocated in 2020 in the City 2015-2020 CIP.

This project will begin in 2018 and is anticipated to be complete in 2021.

Relationship to Guiding Principles

- ☑ Consistent with Master Plans
- ☑ Achieves Community Sustainability Goals
- ☑ Sufficient funds to operation and maintain
- ☐ Maintains and enhances City's business needs
- ☑ Provide capacity and flexibility in long term planning to respond to needs
- ☑ Sustain or improve existing assets
- ☑ Maximizes efficiency
- ☑ Provides sufficient reserves
- ☑ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

Public Process Status, Issues

The strategy for public process will be defined during next year's budget process.

Relationship with Other Departments

Open Space & Mountain Parks

Change from Past CIP

Yes - moved out to 2018 and 2019

Estimated Total Cost

Project Cost

Planning	$573,735
Acquisition	
Construction	$0
Total Project Cost	**$573,735**

Unfunded Amount

Unfunded Amount

Project Cost Total	$573,735
Funding Total	($573,735)
Total Unfunded	**$0**

Capital Funding Plan

Source	Prior to 2014	2014	2015	2016	2017	2018	2019
Water Utility Fund	$0	$0	$0	$0	$0	$100,000	$473,735
Total Funding Plan	**$573,735**						

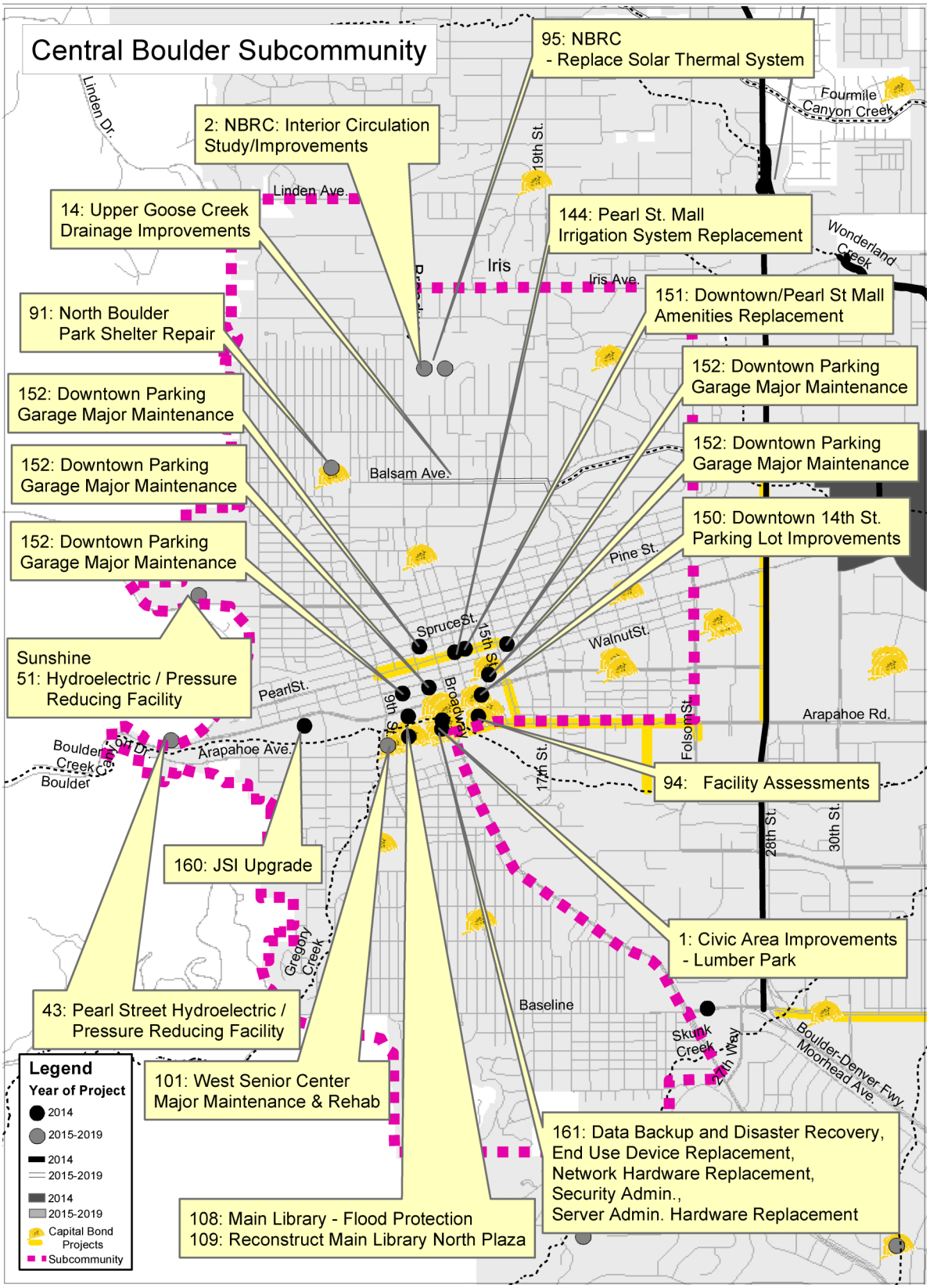
Additional Annual Operations and Maintenance

Additional Annual O&M: **Funding Source:** Water Utility Enterprise Fund

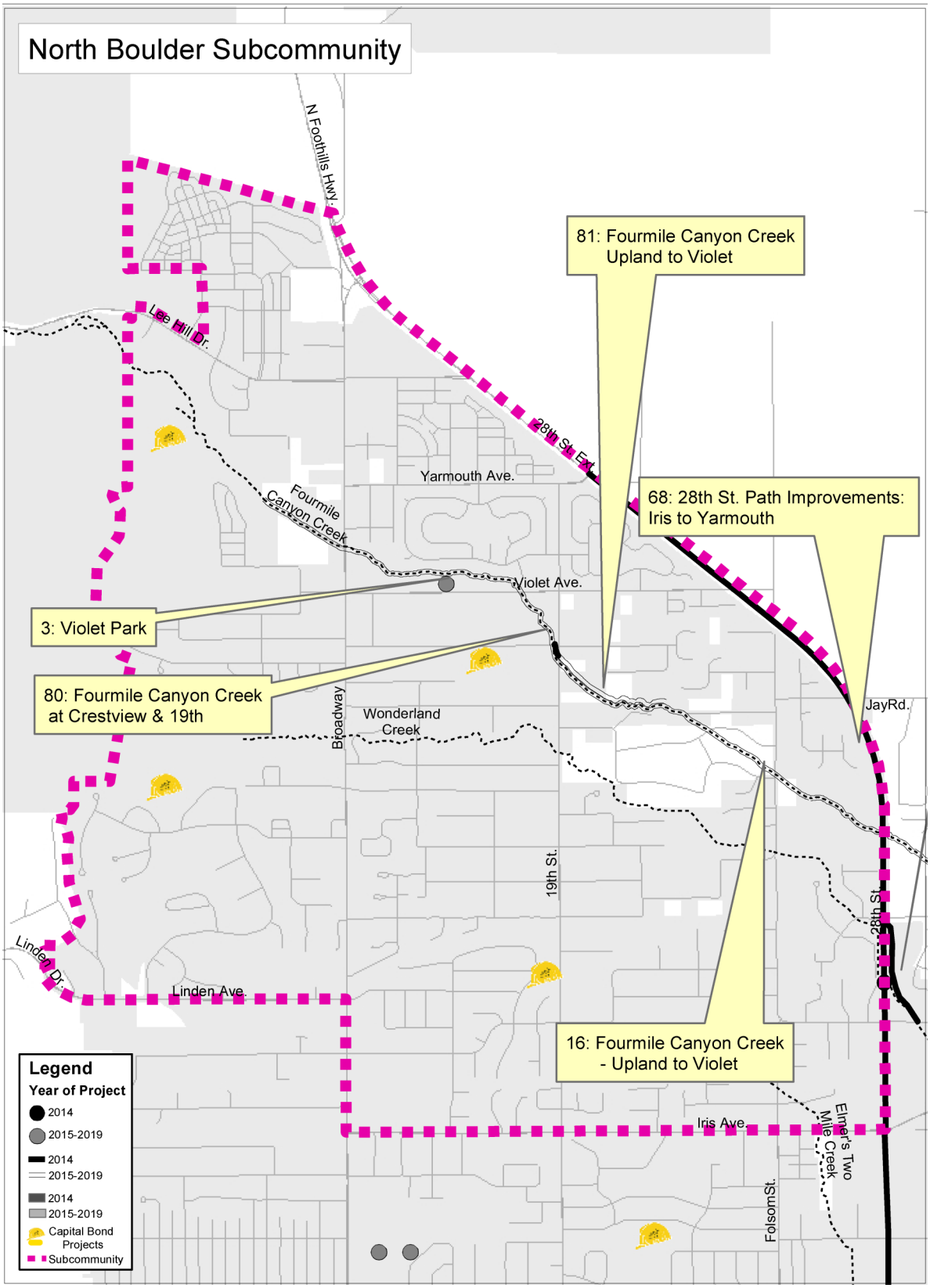
Additional Annual O&M Description:

No increase, funded by existing operating budget.

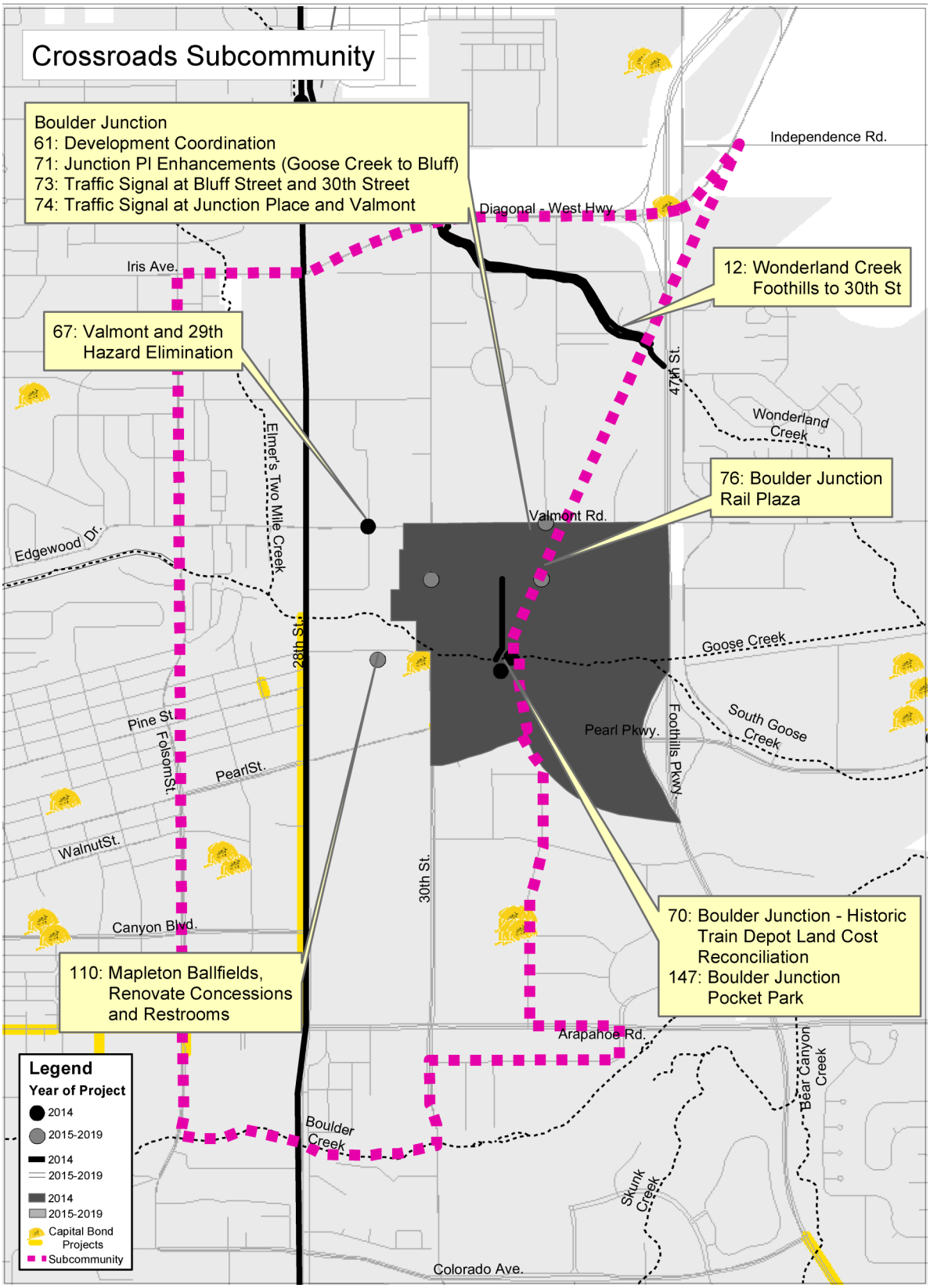
City of Boulder Captial Improvement Projects, 2014 - 2019



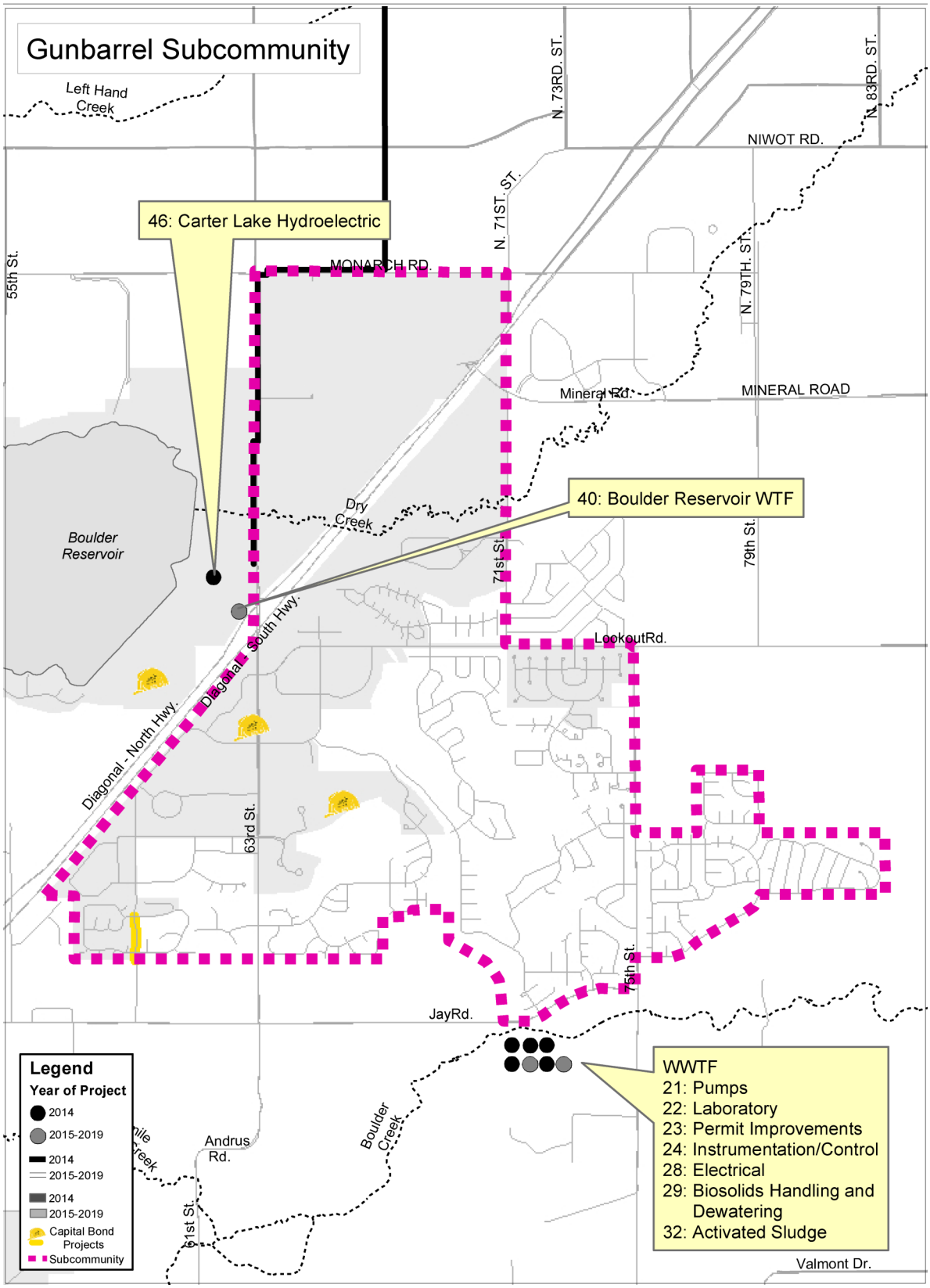
City of Boulder Captial Improvement Projects, 2014 - 2019



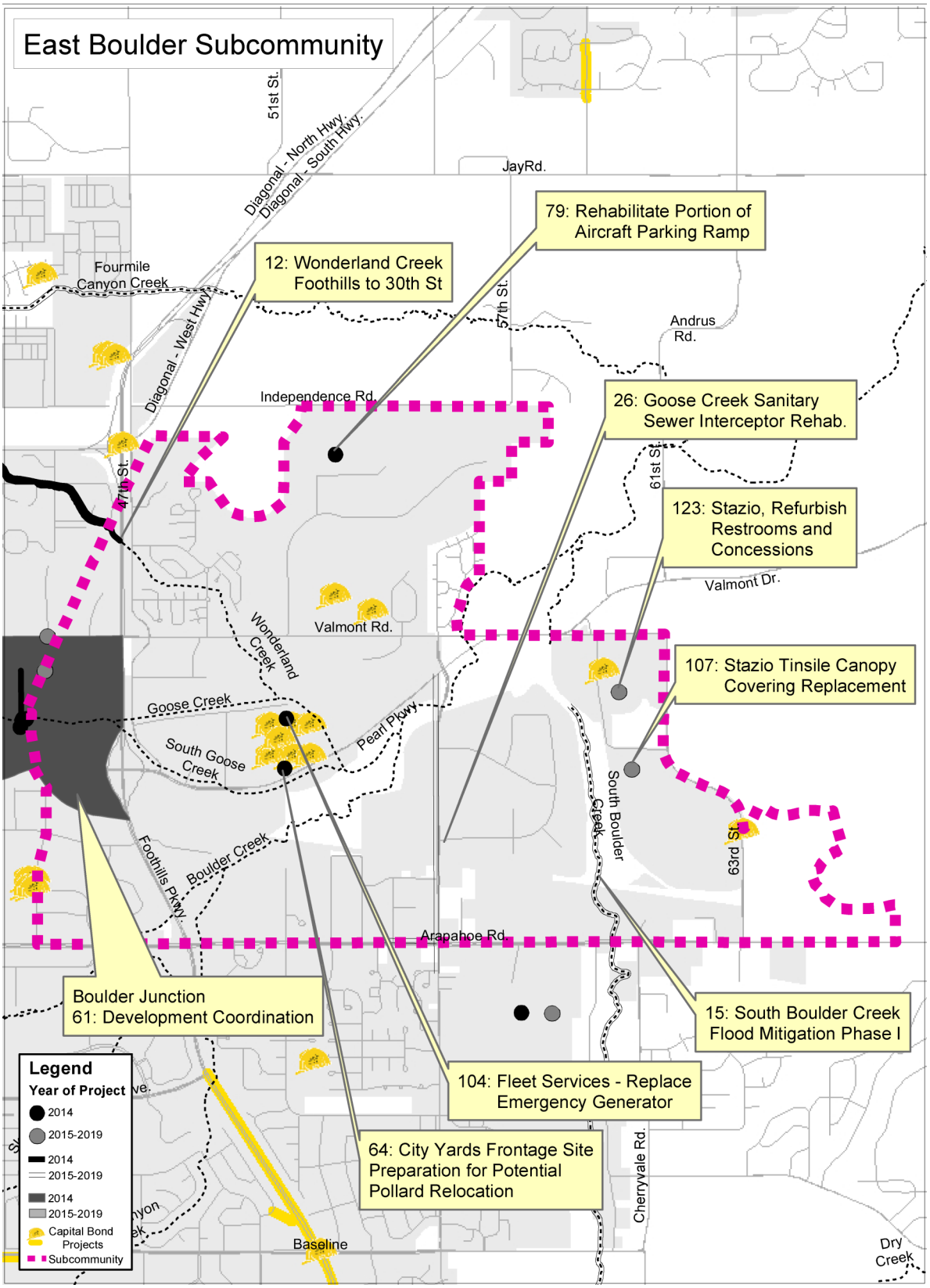
City of Boulder Captial Improvement Projects, 2014 - 2019



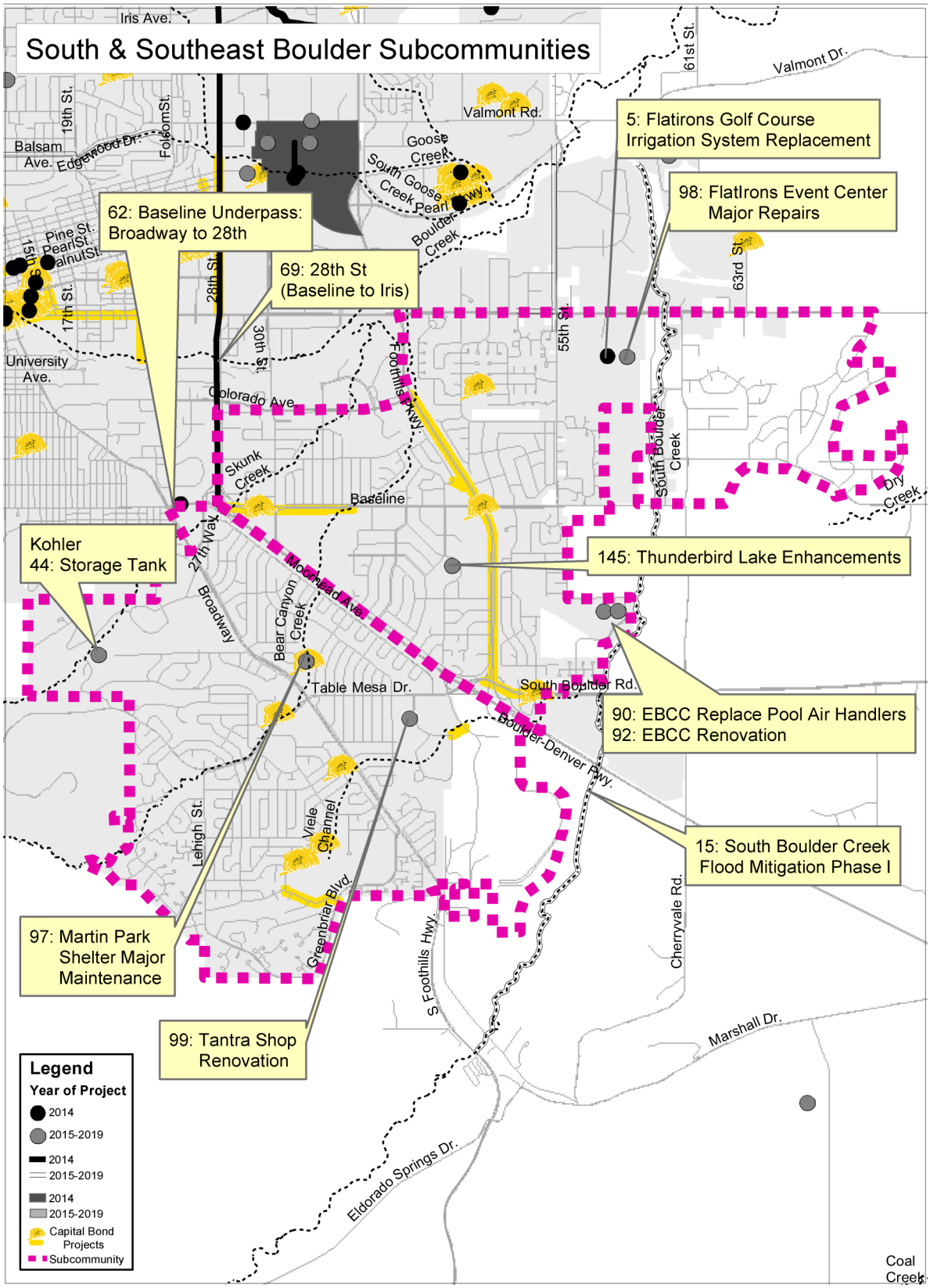
City of Boulder Captial Improvement Projects, 2014 - 2019



City of Boulder Captial Improvement Projects, 2014 - 2019



City of Boulder Captial Improvement Projects, 2014 - 2019



City of Boulder

Appendix B, UNFUNDED PROJECTS

2014 – 2019 Capital Improvement Program

The provision of adequate urban facilities and services to support the community's quality of life is a core tenet of the Boulder Valley Comprehensive Plan. The Capital Improvement Program is a major tool for coordinating and targeting public capital expenditures within changing budget constraints. The goal is to maintain and, in some cases, enhance service levels and standards over time, with new growth paying a fair share of the costs.

Historical Funding Patterns in Boulder

The city has a rich history of investing in the community and its quality of life. Prior to the 2000s, the community consistently invested significant resources in capital facilities. Funding was provided through a combination of ballot measures for specific facilities and land purchases, federal funds, and discretionary revenues. Examples of investments include:

- Buying park lands and open space
- Providing and upgrading public facilities such as libraries, recreation centers and sports fields
- Building places for community business and services such as the municipal campus buildings, and operations centers, for example, the "Yards"
- Building multimodal community connections such as the Greenways system, bikeways, and intersection improvements
- Investing to create special places like the Pearl Street Mall and Chautauqua area.
- Today, community members and visitors continue to benefit from these many facilities and lands on a regular basis.

The 2000s, by contrast, were often economically difficult at local, regional, national, and even global levels. The cost of delivering services and taking care of our infrastructure has increased dramatically. Global demand has resulted in energy and construction costs far outpacing the consumer price index. While there has been some relief in material costs recently, there is no sign that there will be a return to historic prices. At the same time, there have been two economic declines, increased regional competition, and cultural change in shopping habits impacting the revenue side of the equation. The city's revenue in absolute dollars has not returned to where it was in 2000. Furthermore, the purchasing power of current funding is significantly less than 2000.

Planning Efforts to Increase Capital Funding

At a City Council Study Session on Feb. 22, 2011, Council discussed and considered developing a new capital investment strategy for the city based on:

- A desire to revive the historic level of capital investment in the community.
- Difficulties experienced during the 2000s that have resulted in the city's constrained capacity for ongoing capital investment
- Capital investments that address critical deficiencies first and high-priority enhancements second
- Importance of assuring that any new assets or facilities have adequate new allocations of operating and maintenance funding
- Methods and options for funding such capital investment needs through existing revenues and potentially new revenues
- Lessons learned from other Colorado communities
- Stakeholder processes and timelines that would support developing packages for the voters, including new revenues and bonding.

In order to create this new capital investment strategy, City Council generally asked for staff to develop a work plan and stakeholder process for Council approval. The work plan, stakeholder process and timeline were endorsed by Council at its April 5, 2011 meeting. Council endorsed developing a capital investment strategy with existing revenues and asking voters in November 2011 for bonding authority based on those existing revenues. Council also was open to asking the voters for bonding authority in November 2012, with an additional ballot item asking for increased revenues by increasing taxes and/or fees. The Capital Investment Strategy committee was appointed by the City Manager to make recommendations on the Capital Investment project. The committee had two phases, "Round 1" was the 2011 bond package, and "Round 2" was the consideration of a 2012 bond package.

Round 1

Ballot Issue 2A, approved by the voters on Nov. 1, 2011, represents "Round 1" of the citywide Capital Investment Strategy: a 2011 bond package that does not raise taxes and funds a balance of significant deficiencies (defined as improvements or corrections that improve health and safety, maintain industry standards, and/or address legal/ballot requirements) to address maintenance and renovation of existing facilities as well as high priority facility enhancements.

To help determine which projects should have been part of the 2011 bond package, the City Manager appointed a 16-member Capital Investment Strategy stakeholder Committee in May 2011. The committee finalized its Round 1 recommendations in July 2011. The committee recommended a $49 million bond package, which was unanimously supported by City Council, and approved by voters in the November 2011 election. The bond is paying for a list of necessary but previously unfunded projects like roadway repair and reconstruction, park infrastructure

improvements, critical software updates, police equipment replacement, installation of missing links in the bike and pedestrian network, and more. For full details see the Capital Improvement Bond section earlier in this document.

The bond requires that 85 percent of the $49 million be spent in three years. On Jan. 30, 2012, the city broke ground on the first bond project, a multi-use path project along the south side of Baseline, near the University of Colorado's Williams Village complex. Throughout the next few years, there will be more construction and improvements occurring along roadways, bike paths, in city buildings and in parks. A website has been created that will allow the community to track the progress of implementation of the bond projects at www.bouldercolorado.gov/bondprojects.

Round 2

Round 2 of the Capital Investment Strategy project involved considering a bond package for a potential future ballot that would raise new revenues with an emphasis to invest in high priority new or expanded community facilities, including ongoing operation and maintenance costs, and fund other significant deficiencies not addressed in the 2011 initiative.

Staff began working with the Capital Investment Strategy Committee (CISC) on Round 2 in July 2011 and held a final committee meeting on Feb. 6, 2012.

The purpose of Round 2 of the Capital Investment Strategy was to:
"Develop a bond package for possible consideration in 2012 that raises new revenues to invest in capital projects that 'make Boulder *Boulder*' and includes ongoing operating & maintenance to support those projects."

The CISC felt that in order for voters to approve a second round of capital improvements, which would require a tax increase, the projects would need to be significant and inspiring, with a broad community benefit.

On Jan. 19, the CISC delivered a letter to City Council with Round 2 recommendations about:

- Timing (why 2012 is not the time to move forward on a Round 2 ballot initiative)
- Guiding principles for selecting Round 2 projects
- Top 10 projects to be considered for further study and refinement, potentially on the 2012 work plan and through master plan updates.

One of the key reasons that the CISC recommended against moving forward with a 2012 bond initiative is that many of its highest priority projects have not yet been fully evaluated or planned, and the projects' feasibility, scope and costs are currently unknown (or are only roughly estimated or described at this time). Additionally, public opinion polling conducted by Talmey-Drake Research indicates a lack of sufficient support for a 2012 bond initiative that would raise taxes for new initiatives (see www.bouldercolorado.gov/cis under "Background" for details).

Master Plans

One of the most logical places to further prioritize other unfunded capital needs on the list is through the city's departmental master plans, since City Council acceptance of master plans provides direction on city priorities for capital improvements. Master plans include the following key elements:

- Evaluation of program and facility needs in relation to adopted level of service standards
- Prioritization of services, projects or programs
- Three funding plans—fiscally constrained, action, and vision.

Departmental master plans include funding plans at three levels.: 1) Fiscally Constrained Plan – a prioritized service plan within existing budget targets; 2) Action Plan –the next step of service expansion or restoration that should be taken when funding is available either within current revenue sources or if new sources become available; and 3) Vision Plan – the complete set of services and facilities desired by the community and aligned with values and policies, with alternative proposals to fund them.

Seven master plan updates or development processes are either underway or will be started in 2013. These include:

- Transportation Master Plan
- Parks and Recreation Master Plan
- Police Master Plan
- Facilities and Asset Management (FAM) Master Plan
- Visitor Master Plan
- Human Services Master Plan.

Therefore, many of the unfunded projects will be considered and prioritized through master plan update processes this year. While the planning processes will vary for each master plan, most will include public outreach and all will be considered by one or more boards and presented to City Council for final acceptance. High priority unfunded capital projects will be identified in these fiscally constrained, action or vision plan of its respective master plans.

Prioritization

One of the lessons learned from the CISC process is that it would be helpful if Action Plan funding scenarios within master plans included a list of projects in order of priority. This action would provide guidance about the desired next set of strategic capital investments for each department, if additional funding becomes available.

Based on this, for the 2014-2019 CIP planning process, departments submitted a prioritized set of the top five unfunded projects, based on the current departmental master/strategic plan and

city needs. Project sheets for those projects are included in this appendix. These projects are not a comprehensive list of the unfunded capital needs of the city, but only a limited subset of high-priority projects with no current identified funding source, to illustrate some of the key unfunded CIP needs of the city.

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
13th Plaza Remediation and Reconstruction		

Department:	PW/ Facilities & Asset Management	**Subcommunity:**	Central Boulder
Funding Source:	Facility Renovation & Replacement Fund	**BVCPArea:**	Area I
Category:	Significant Deficiency		
Status:	Major Planning Needed		
CEAP Required:	No	**CEAP Completed:**	

Project Description:

Perform remediation from contamination remaining from a former coal gasification plant at the 13th Street Plaza and parking lot. Work would be part of a planned Voluntary Clean-Up Program being submitted to the State of Colorado in August/September 2013 with a planned construction start of December 2013 and completion by May 2014. Negotiations for cost recovery from other responsible parties is on-going.

Rationale/Impact:

Public Process Status, Issues:

The Voluntary Clean-Up Program process has a public process administered by the State of Colorado. The reconstruction portion will reviewed by Planning and other boards and commissions.

Relationship with Other Departments:

The reconstruction portion of this project is being coordinated with Planning in relation to the Civic Area Plan, Parking Services, Parks and Recreation and Transportation.

Est Total Cost	Annual On-going Operating Costs
$0	$0

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Albion Dam - Unfunded		

Department:	PW/ Water Utility	Subcommunity:	Outside Planning Area
Funding Source:	Water Utility Fund	BVCPArea:	Outside Planning Area
Category:	Low-Priority Action Plan		
Status:	Major Planning Needed		
CEAP Required:	No	CEAP Completed:	NA

Project Description:

This project will provide funds for the evaluation of alternatives for the rehabilitation of Albion Dam, located in the City's Watershed. The downstream face of Albion Dam is in poor condition and continues to degrade. Design and construction costs inflated at a 4% annual rate are currently projected in 2022- 23 with a total estimated cost of $4,477,446.

The evaluation/planning phase of the project will begin in 2014 and be completed in 2015. Upper Catchment Dams were identified in the Source Water Master Plan as requiring maintenance, structural improvements and safety system improvements in order to maintain the exixting senior city storage rights.

Rationale/Impact:

Public Process Status, Issues:

No additional public process is anticipated.

Relationship with Other Departments:

None

Est Total Cost	Annual On-going Operating Costs
$4,396,326	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Boulder Civic Area Park Improvements		

Department:	Parks & Recreation	Subcommunity:	Central Boulder
Funding Source:		BVCPArea:	Area I
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

This project will provide enhancements and improvements to park areas within the Boulder's Civic Area as identified within the Civic Area Plan. The Civic Area meets several key themes of the Boulder Parks and Recreation Master Plan and the implementation of the Civic Area Plan allows the department to meet critical goals for the department. The projects will range in scale and complexity while consistently meeting the guiding principles and implementation strategies identified through the Civic Area planning process. Most projects will address critical deficiencies by enhancing and replacing current park amenities such as park lighting standards, wayfinding and interpretive opportunities, enhancement of site furnishings, replacement of turf areas and improving site saftey and security. More complex projects will include the development of passive recreation areas through paving, landscaping, outdoor art installation and activation areas that accommodate increased programming and events within the park areas.

Rationale/Impact:

Public Process Status, Issues:

Each phase of implementation will build upon the extensive public outreach that has occurred throughout the Civic Area planning process by engaging stakeholders and the community in all phases of planning, design, partnership and volunteerism.

Relationship with Other Departments:

All applicable city departments will be involved in the planning, design and construction of the improvements within the Civic Area.

Est Total Cost	Annual On-going Operating Costs
$2,500,000	

Description:	Currently the department spends approximately $18,000 per acre for operations and maintenance in the Civic Area. Further enhancement to the park areas could potentially increase the O&M slightly due to enhanced amenities requiring additoinal maintenance.
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Boulder Junction - Transportation Connections - Phase 2		

Department:	PW/ Transportation	Subcommunity:	Crossroads
Funding Source:	Transportation Fund	BVCPArea:	Area I
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

This project would include the next phase of the unfunded transportation connections that are a part of the Transit Village Area Plan (TVAP) Transportation Connections Plan. Possible projects could include the following:

1. Junction Pl Bridge @ Boulder Slough- project would construct a new bridge crossing providing for ultimate grade-separated pedestrian/bicycle underpass connection of path at Junction Place. Est total cost $3.0M.

2. Junction Pl Roadway (Boulder Slough to 32nd St/Prairie Ave)- project would extend Junction Place south of Boulder Slough, providing a new north-south, collector street linking existing commercial, retail and industrial property from the south to the new signalized intersection at Pearl Parkway/Junction Place. Would complete a key multi-modal connection providing pedestrian, bicycle and vehicular facility in a "fine-grain grid pattern" per TVAP goals. This connection would require significant ROW acquisition, unless completed in conjunction with a private development. Est total cost $2.0M.

3. Boulder Slough Multi-use Path (30th St to 3100 Pearl)- project would complete a missing multi-use path link between the 3100 Pearl Apartments (under construction), and the existing 30th Street Underpass at the Boulder Slough. This connection would require significant easement acquisition. Est total cost $0.5M.

4. Boulder Slough Underpasses at BNSF Railroad and at Pearl Parkway- project would complete grade separated crossings connecting multi-use paths south of Pearl, with existing and proposed multi-use paths north of Pearl, and direct linkages to the Goose Creek Path system. The underpass at BNSF would also provide a significant Utilities Flood Control benefit, by removing properties anticipated to be identified in the Boulder Creek floodplain as part of a recent re-mapping project. Est total cost $5.5M.

5. North Goose Area Multi-use Path Connections- this project would construct planned multi-use path connections along the west side of the BNSF Railroad, from Goose Creek to Valmont. Would require easement vacations by BNSF, and new easement acquisitions. Would also require some BNSF spur track re-alignment for southerly segment. Could be split in separate segments such as Goose to Bluff, and Bluff to Valmont. Est total cost $1.2M.

Rationale/Impact:

Public Process Status, Issues:

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

Relationship with Other Departments:

The TVAP was a coordinated multi-department effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility (as part of Depot Square development), possible other future Transit-Oriented Development and future Northwest Rail facilities.

Est Total Cost	Annual On-going Operating Costs
$12,200,000	

Description:	Project may result in minimal incremental increases in on-going maintenance costs.
Source of Funding:	Transportation and Utilties Funds Operating Budget

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Boulder Reservoir Water Treatment Facility - Unfunded	411652	

Department:	PW/ Water Utility	Subcommunity:	Gunbarrel
Funding Source:	Water Utility Fund	BVCPArea:	Area I
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	NA

Project Description:

This project will provide funds for on-going maintenance and rehabilitation of the Boulder Reservoir Water Treatment Facility. Improvements include pre-oxidation, filter valves and actuators, washwater recovery tank expansion, stie pavement, polymer feed system and emergency power.

Rationale/Impact:

Public Process Status, Issues:

No additional public process is anticipated.

Relationship with Other Departments:

None

Est Total Cost	Annual On-going Operating Costs
$4,651,865	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Carnegie Library Exterior Masonry Repairs		

Department:	PW/ Facilities & Asset Management	Subcommunity:	Central Boulder
Funding Source:	Facility Renovation & Replacement Fund	BVCPArea:	
Category:	Low-Priority Action Plan		
Status:	Minimal Planning Needed		
CEAP Required:	No	CEAP Completed:	

Project Description:

Repair the medium and lower priority exterior masonry repairs for the historic Carnegie Library. The high priority masonry repairs at the Carnegie Library were completed in 2012 along with improved ADA accessibility, in cooperation with the State Historical Society

Rationale/Impact:

Public Process Status, Issues:

Repairs will be coordinated with the State Historical Society and the Landmarks Board.

Relationship with Other Departments:

Work will be coordinated with the Library and Arts Department to ensure disruptions to customer services are minimized.

Est Total Cost	Annual On-going Operating Costs
$0	$0

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
City-wide radio infrastructure		

Department:	Police	Subcommunity:	
Funding Source:		BVCPArea:	System-wide
Category:	Significant Deficiency		
Status:	Major Planning Needed		
CEAP Required:	No	CEAP Completed:	

Project Description:

Over the next 5 years, much of the city's radio infrastrucrture will need to be replaced either because of age, or because of new unfunded narrow-banding mandates from the Federal Communciations Commission (FCC).

Rationale/Impact:

Public Process Status, Issues:

None started.

Relationship with Other Departments:

Includes all city departments who use this infrastructure.

Est Total Cost	Annual On-going Operating Costs
$1,500,000	$150,000

Description:	Rent, utilities, and repairs.
Source of Funding:	Currently being paid out of Police Department Budget.

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Civic Center Plan Transportation Projects Implementation		

Department:	PW/ Transportation	Subcommunity:	Central Boulder
Funding Source:	Transportation Fund	BVCPArea:	Area I
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

The Civic Center Planning process is underway and it is anticipated that an outcome of the planning process will be various projects including new and improved transportation connections to provide for transportation options to and through the civic center area. At this time, there is not funding programmed for these improvements. As these projects are still being defined, the scope and cost are unknown so a general place holder is estimated at $15 Million.

Rationale/Impact:

Public Process Status, Issues:

Relationship with Other Departments:

Est Total Cost	Annual On-going Operating Costs
$0	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Data Backup and Disaster Recovery Upgrades		

Department:	Information Technology	Subcommunity:	
Funding Source:		BVCPArea:	
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

This project is a companion to the Data Backup and Disaster Recovery project reflected as a funded capital maintenance project. The element reflected here relate to the unfunded needs for this system on the horizon. As the data storage demands of the city organization continue to go - we need to purchase additional capacity to support that demand. Specifically - it is anticipated that in 2015 and again in 2017 we will need to buy additional capacity on our backup software system.

In 2019, when the system is replaced it is likely that a much higher capacity storage system will be needed to support the data needs of the city. This is anticipated due to the rapidly expanding data needs including projected enhancements to accommodate data growth due to extended file retention and storage of larger multimedia files (photo, video and audio). While the capital maintenance project has funding for the replacement of a similar system in the 2018/2019 timeframe - significantly increase capacity is not funded.

Rationale/Impact:

Public Process Status, Issues:

Relationship with Other Departments:

Est Total Cost	Annual On-going Operating Costs
$125,000	$6,000

Description:	2015 increased annual software maintenace of 3,000 2016 increased annual software maintenace of an additional 3,000
Source of Funding:	Currently Unfunded

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
East Arapahoe Planning Implementation		

Department:	PW/ Transportation	Subcommunity:	East Boulder
Funding Source:	Transportation Fund	BVCPArea:	
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

There are two planning efforts underway or planned along Arapahoe - east of 28th Street.

The East Campus Connections Project, began in 2012, is a joint University of Colorado & City of Boulder project, as part of the City's Transportation Master Plan update to advance the "complete streets" focus area. The primary project goal is to integrate connections
from CU & City transportation Master Plans and identify new and important connections needed due to the imminent and future expansion of CU's East Campus. The east campus area is a focus for CU redevelopment that has already started and will be more so in the future including classrooms so access to this area from the other parts of campus and campus housing is very important. The connections that come out of this planning process are currently unfunded. The connections are being defined and therefore the scope and costs are unknown so a place holder of $5 Mil is estimated at this time.

The second planning process that is planned to start in 2013 is along east Arapahoe. During the June 2012 work plan update, Council indicated a desire to conduct a planning effort in 2013 in the east Arapahoe Avenue area, surrounding the Boulder Community Hospital (BCH) Foothills Campus. BCH has indicated that over the next several years, the acute care functions (including emergency room) of the hospital will relocate to the Foothills campus from the Broadway campus. The Foothills Hospital addition to accommodate this growth is currently under construction. As a result, the city anticipates the relocation of medical and support services offices to the area; however, land zoned for medical offices in the area is limited. The East Arapahoe Area effort could be narrowly focused on the area surrounding the hospital or expanded to encompass a wider geographic area and range of issues.

For the broader planning effort, staff will begin fact finding, scoping of issues, and analysis of the geographic area along and around east Arapahoe Avenue. This will also explore the overlap and issues with other projects listed above. During the third or fourth quarter of 2013, depending on resources necessary to successfully complete the Civic Area planning effort and next steps, staff anticipates initiating the project based on scope and work plan direction.

It is anticipated that a list of transportation connections and improvements will come out of this planning process that are unfunded. The scope and costs are not yet known so a place holder is being added of $10 Mil

Rationale/Impact:

Public Process Status, Issues:

Relationship with Other Departments:

Est Total Cost	Annual On-going Operating Costs
$0	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Fire Facilities - Station 3/ Administration / Storage		

Department:	Fire	**Subcommunity:**	Crossroads
Funding Source:	Round 2 - 2012 CIP Bond Project	**BVCPArea:**	Area I
Category:			
Status:			
CEAP Required:	No	**CEAP Completed:**	

Project Description:

Relocate Fire Station #3 out of the 100 year floodplain, and combine and co-locate the new Fire Station #3 and Fire Administration Offices and construct storage for fire vehicles and equipment into one new facility.

Relocate Fire Administration Offices out of Public Safety Building- Fire administration offices currently occupy 3,737 square feet in the Public Safety building. A space analysis identified the space need of at least 10,000 square feet. This project would provide a facility to efficiently store reserve fire apparatus and stockpile of emergency supplies on existing land adjacent to Fire Station #7.

The projected building cost for this project is $7.0 million plus estimated land cost between $2,500,000 and $8,900,000 for this project.

Rationale/Impact:

Relocate Fire Station 3 out of 100 year flood plain - Fire stations are considered 'Critical City Infrastructure'. This 47 year old building is located in the 100 year flood plain of Boulder Creek. It is too small to accommodate today's needs. Because it is in the 100-year flood plain and high hazard/convenyance zones, any renovations would trigger flood protection requirements which would be cost-prohibitive and would make the facility unuseable for emergency response for an extended period fo time. Not having a fire station for the fire station 3 area would cause increased emergency response times within the Fire Station 3 response district. The Boulder Valley Comprehensive Plan, fire service standards call for the first emergency response unit to arrive at the scene of an emergency within 6 minutes 90% of the time. This is our busiest station responding to over 2,500 calls in 2010. Having it out of service for an extended period of time would compromise our ability to provide timely service in this part of the City.

This project has been identified as a need by the Fire Department for many years. It was also noted in the June 1, 2011 "Operation and Management Assessment of the Boulder Fire-Rescue Department Report" as an "immediate action item which requires special prioritization". The "Operations and Assessment Report" also noted that a relocated Fire Station 3 would be an opportunity to also co-locate the Fire Department Administration offices on the same site. This project is listed as a separate project in the CIP.

The co-location of the Fire Administration offices with Fire Station 3 provides an opportunity for efficiency in acquiring only one parcel of land rather than two. There is no space in the existing offices at the Public Safety Building for expansion. Vacating the area in the Public Safety building will help the Police Department with their space needs. This project has been identified as a need by the Fire Department for many years. It was also noted in the June 1, 2011 "Operation and Management Assessment of the Boulder Fire-Rescue Department Report". That report suggested this project along with the relocation of Fire Station #3 out of the flood plain could be a good opportunity to increase communications between fire administration and operations personnel. Co-locating the two could for overall cost efficiency using the same property.

For the storage facility, the Fire Department maintains and uses three reserve fire trucks. The trucks are used when a front line truck is out of service for maintenance. They are also used during major emergencies and staffed with overtime fire fighters. Two of the three reserve trucks are stored in fire stations in the city alongside the front line trucks. One is stored in a barn at 51st Street and Jay Road outside of the city because there is no room at any of the other fire stations. Reserves are used regularly and in emergencies so it is important that they be readily accessible.

Given the space constraints in fire stations, supplies like booms and absorbent for use with responses to hazardous materials incidents are limited to what can be carried on the HazMat vehicle. Once expended on an incident new supplies must be ordered and delivered before the Fire Department is completely prepared to handle another emergency. This same situation is true for fire hose, personal protective equipment and other expendable materials.

City of Boulder Capital Improvements Program
Unfunded Project Status Report

A dry heated storage space in the city and close to a fire station could help ease the space crunch and allow the department a quicker turnaround time when supplies are used on an emergency.

Another program the Fire Department is exploring as a result of a recommendation in the June 1, 2011 "Operation and Management Assessment of the Boulder Fire-Rescue", is the use of smaller, lower emission vehicles for response to medical emergencies rather than a large fire truck. This greenhouse gas reducing imitative would require space in select fire stations where the smaller vehicles could be parked. This storage building would also free up that needed space.

Public Process Status, Issues:

There has been no public process on any of the listed projects.
Finding suitable and affordable land is an issue for the combined Fire Station #3 and Administration facility.

For the storage facility, there is city owned property immediately east of Fire Station 7, 1380 55th Street, that could be a viable site for this building. Otherwise finding a suitable and affordable property would be an issue.

Relationship with Other Departments:

OSMP RealEstate - to identify and acquire property
Finance - project funding
Planning - project approval, zoning, permits
FAM - project management, on-going maintenance

Est Total Cost	Annual On-going Operating Costs
$0	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Major Roadway and Structure Reconstruction		

Department:	PW/ Transportation	Subcommunity:	
Funding Source:	Transportation Fund	BVCPArea:	
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

An area that is unfunded is the reconstruction of major streets in Boulder. Reconstruction is required at the end of the pavement life but it is also an opportunity to correct significant issues like severe cross slope. It is also a chance to re-evaluate the street to potentially repurpose the public right-of-way working towards "complete streets" that accommodate all modes of travel. Street reconstructions are very costly and can not be incorporated into the current annual repair budgets. The next streets that could be evalutated for funding for significant repairs and reconfiguration include portions of Colorado Avenue, 30th Street, Broadway, Table Mesa, Folsom, and Greenbriar. The next highest need for reconstruction would cost approximately $5 Mil.

Another capital maintenance need is the replacement of the SH157 Bike/Pedestrian Overpass Replacement with Underpasses that were originally constructed by CDOT but do not meet ADA requirements and are not very inviting for bicyclists and pedestrians creating a significant barrier across SH!57. They are also a significant maintenance liability. Underpasses could be shorter and the ramps more gradual to help with this barrier. The replacement of both underpasses is estimated at $8 Mil.

Rationale/Impact:

Public Process Status, Issues:

Relationship with Other Departments:

Est Total Cost	Annual On-going Operating Costs
$0	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Move Critical Facilities out of the High Hazard and 100-year Flood Zone		

Department:	PW/ Facilities & Asset Management	**Subcommunity:**	Multiple Subcommunities
Funding Source:		**BVCPArea:**	
Category:			
Status:	Major Planning Needed		
CEAP Required:	No	**CEAP Completed:**	

Project Description:

Critical city functions and city facilities are located in the high hazard or 100-year flood zones and should not be located in these areas due to the need to maintain these vital city functions immediately following a flood event. These facilities include Fire Station #3, the New Britain Building and the Park Central Building.

Rationale/Impact:

Public Process Status, Issues:

The Civic Area Plan and the Fire Master Plan has identified these needs for relocating critical functions out of the high hazard and 100-year flood zones.

Relationship with Other Departments:

Identifying a suitable location and funding strategy for replacing these faciltiies will be coordinated through many city departments, including Fire, Planning, Public Works, and Finance.

Est Total Cost	Annual On-going Operating Costs
$0	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Neighboorhood Park Development		

Department:	Parks & Recreation	Subcommunity:	Multiple Subcommunities
Funding Source:		BVCPArea:	System-wide
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

The Parks and Recreation Master Plan includes a priority in the Action Level funding plan for developing new neighborhood parks to achieve the desired park level of service within certain subcommunities of Boulder. This project includes planning, design and development for new neighborhood parks that are determined based on critical growth areas, levels of service requirements and unmet needs within the community. New Parks may include: Violet Park, Heatherwood Park, Gunbarrel Area Park (land acquisition and development), Ann Armstrong Park and Sinton Park. The City owns approximately 38 acres of undeveloped park land that is proposed for neighborhood parks.

Rationale/Impact:

Public Process Status, Issues:

Each neighborhood park planning process involves extensive engagement with the neighborhood and all stakeholders through design workshops, needs assessments and partnership opportunities for leveraging funding and volunteerism.

Relationship with Other Departments:

All city departments will be engaged throughout the planning and development process of a neighborhood park.

Est Total Cost	Annual On-going Operating Costs
$2,000,000	$12,500

Description:	Labor, materials and utilities associated with typical neighborhood park amenities such as playgrounds, turf areas, shelters, site furnishings and pathways.
Source of Funding:	Undetermined

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Network Hardware Upgrades and Enhancements		

Department:	Information Technology	**Subcommunity:**	System-wide
Funding Source:		**BVCPArea:**	System-wide
Category:			
Status:			
CEAP Required:	No	**CEAP Completed:**	

Project Description:

This project reflects the unfunded needs of the Network Hardware system. Over the next serveral years the following needs are anticipated:

2014 Switch for redundant internet connection ($10,000)
2014/2105 additional Wireless Access Points to continue network buildout ($10,000)
2015 Redundant WAP controller ($38,000)
2015 Netscaler Appliance Hardware ($35,000)
2015 Project Planning ($25,000)

Rationale/Impact:

Public Process Status, Issues:

Relationship with Other Departments:

City-wide Enterprise service supporting all city departments.

Est Total Cost	Annual On-going Operating Costs
$118,000	$14,500

Description:	If a redundant internet connection is established, then approximately 13,000 / year for internet service. Support over 6 year life for Redundant WAP controller - $6,500.
Source of Funding:	Unfunded

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Police Records Management System		

Department:	Police	Subcommunity:	
Funding Source:		BVCPArea:	
Category:	High-Priority Action Plan		
Status:	Major Planning Needed		
CEAP Required:	No	CEAP Completed:	

Project Description:

Rationale/Impact:

Public Process Status, Issues:

None started.

Relationship with Other Departments:

Police Department provides appropriate reports to various city departments including Municiapl Court, CAO and City Manager.

Est Total Cost	Annual On-going Operating Costs
$850,000	$100,000

Description:	Maintenace Agreement.
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Quiet Zone Implementation at Railroad Crossings		

Department:	PW/ Transportation	Subcommunity:	
Funding Source:	Transportation Fund	BVCPArea:	
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

In response to noise concerns expressed by existing Boulder residents as well as new mixed-use, transit-oriented development opportunities adjacent to the existing Burlington Northern Santa Fe (BNSF) railroad corridor, the City of Boulder is currently working with the BNSF Railway Company (BNSF), Colorado Public Utilities Commission (PUC), Federal Railroad Administration (FRA) and other agency partners such as Boulder County and the Colorado Department of Transportation to develop a plan for railroad Quiet Zones.

Based on the initial studies, the cost estimate for implementing quiet zones at the 10 railroad crossings within and near the City of Boulder, including several crossings located in Boulder County, is approximately $8 million. These cost estimates are very preliminary, and unable to be refined until additional consultation with BNSF, PUC and FRA.

Rationale/Impact:

Public Process Status, Issues:

Relationship with Other Departments:

Coordination with Planning Department in supporting adjoining land use changes as part of the Transit Village Area Plan (TVAP) for crossing at Pearl Parkway and Valmont Road, and existing land use desires at remaining locations in the City.

Est Total Cost	Annual On-going Operating Costs
$8,000,000	

Description:	Implementation of these treatments could result in unknown additional yearly maintenance cost assessement assigned by BNSF Railroad to the City of Boulder, for items such as: additional exist gates, other additional infrastructure over and above a standard at-grade railroad crossing.
Source of Funding:	Transportation Fund Operating Budget

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Recreation and Community Center Enhancements		

Department:	Parks & Recreation	Subcommunity:	System-wide
Funding Source:		BVCPArea:	Area I
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

The Boulder Parks and Recreation Master Plan outlines various improvements and enhancements to all recreation facilities and centers within the three funding priorities. Enhancements to recreation centers allow the department to meet critical goals relative to the community health and wellness and ensure facilities are maintained at an appropriate standard according to the department's asset management program. Proposed projects will provide facility upgrades and operational efficiencies to fitness areas, aquatic areas and sports facilities. Enhancement projects may include: pool renovations, fitness and program area expansions, new concession areas, weight room renovations and increased multi-purpose rooms. Cost of enhancements will range from $500,000 to $14,000,000 and can be phased based upon available funding.

Rationale/Impact:

Public Process Status, Issues:

All enhancement projects will be presented to the community and facility users to determine prioritization and preference based on feasibility analysis.

Relationship with Other Departments:

All improvements will engage multiple city departments throughout the planning and development.

Est Total Cost	Annual On-going Operating Costs
$14,000,000	

Description:	Any increase in O&M costs will be minimal due to the expansion and able to be absorbed into the existing center's operating budgets.
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Repair Municipal Service Center Parking Lots		

Department:	PW/ Facilities & Asset Management	**Subcommunity:**	East Boulder
Funding Source:	Facility Renovation & Replacement Fund	**BVCPArea:**	Area I
Category:	Low-Priority Action Plan		
Status:	Minimal Planning Needed		
CEAP Required:	No	**CEAP Completed:**	

Project Description:

Repair badly deteriorated parking lot and pavement areas at the Municipal Service Center (MSC). A pavement survey conducted in 2010 identified numerous areas in the MSC lot as needing complete replacement or repair. The pavement is over 20 years old and has required numerous potholes filled, but the subbase layers of the pavement require a complete re-build of many areas.

Rationale/Impact:

Public Process Status, Issues:

None.

Relationship with Other Departments:

Work will be coordinated with users of Fleet Services, Transportation and Utiliities to minimize disruptions to users of the MSC.

Est Total Cost	Annual On-going Operating Costs
$0	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Repair Public Safety Building Parking Lot		

Department:	PW/ Facilities & Asset Management	Subcommunity:	Central Boulder
Funding Source:	Facility Renovation & Replacement Fund	BVCPArea:	
Category:	Low-Priority Action Plan		
Status:	Minimal Planning Needed		
CEAP Required:	No	CEAP Completed:	

Project Description:

Repair badly deteriorated parking lot and pavement areas at the Public Safety Building (PSB). A pavement survey conducted in 2010 identified numerous areas in the PSB lot as needing complete replacement or repair. Some temporary patching work was completed in 2010; however, those patches are not holding due to the need to replace the subbase layers of the pavement.

Rationale/Impact:

Public Process Status, Issues:

None.

Relationship with Other Departments:

Project will be coordinated with the Police and Fire Department to minimize use of the parking lot.

Est Total Cost	Annual On-going Operating Costs
$0	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Reservoir Recreation Enhancements		

Department:	Parks & Recreation	Subcommunity:	Outside Planning Area
Funding Source:		BVCPArea:	Area II
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

Improvements and enhancements to the Boulder Reservoir remain a priority for the department and have been high priority in the Boulder Reservoir Master Plan as well as the Boulder Parks and Recreation Master Plan. The recent Capital Improvement Bond funding allowed for critical upgrades to be implemented and several more priorities still exist. Projects will continue to address infrastructure deficiencies on the South Shore through the design, remodel and/or replacement of existing structures (administrative, marina and maintenance buildings), demolition of existing security bldg, and a new boat and camp equipment storage structure facility. Other improvements may include upgraded ADA compliant playground areas, outdoor performance venue and beach areas, wayfinding and signage replacements; wildlife management (prairie dog) areas, feeder canal trail, West shore trail system, fencing and North shore/Coot Lake improvements. Cost of improvements will range from $250,000 to $5,000,000 depending upon the scope and available funding.

Rationale/Impact:

Public Process Status, Issues:

The community and users of the Reservoir will be engaged in the planning and development of all projects as necessary.

Relationship with Other Departments:

Multiple departments and agencies share responsibilites at the Reservoir and will be engaged throughout the implementation of enhancement projects.

Est Total Cost	Annual On-going Operating Costs
$5,000,000	

Description:	Enhancement projects will not result in a decrease in maintenance cost due to the O&M that is spent annually due to the deterioriating and aging infrastructure.
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
South Boulder Creek Flood Mitigation Phase II	431202	

Department:	PW/ Stormwater and Flood Management Utility	**Subcommunity:**	Multiple Subcommunities
Funding Source:	Stormwater & Flood Management Utility Fund	**BVCPArea:**	System-wide
Category:			
Status:			
CEAP Required:	Yes	**CEAP Completed:**	No

Project Description:

This project would be the second phase of flood mitigation improvements along South Boulder Creek.

The overall project is to mitigate flooding along South Boulder Creek from U.S. 36 to the confluence with Boulder Creek, based on recommendations in the Comprehensive Flood and Stormwater Master Plan. Flood mitigation alternatives have been evaluated and a draft recommendation is currently going through a public review process. Information has been presented in two open houses, twice to the Water Resources Advisory Board (WRAB) and at several stakeholder meetings. The proposed alternative includes construction of a regional flood detention facility located just south of US36, along with downstream capacity improvements. This alternative would eliminate the overtopping of US36 during a 100-year storm event and greatly reduce downstream flood risks.

It is anticipated that the project will be designed and constructed in three phases, each approximately $15 million. The recommended first phase would construct the regional flood detention facility at US36. Funding shown in the CIP is for the first phase and is intended as seed money in the hopes of securing outside grants or federal money to complete the selected alternative. Additional phases are, as of yet, unfunded.

Rationale/Impact:

Public Process Status, Issues:

The project has been presented to the public in two open houses, twice to the Water Resources Advisory Board (WRAB) and several stakeholder meetings. Following further refinement of the recommended alternative, the city will conduct an open house, coordinate with stakeholders, and present to the WRAB and City Council. These remaining public processes are anticipated to occur in late 2013 and early 2014.

Relationship with Other Departments:

Transportation, Planning, Open Space, Boulder County, University of Colorado, Boulder Valley School District

Est Total Cost	Annual On-going Operating Costs
$15,000,000	$0

Description:	No increase, funded by existing operating budget
Source of Funding:	Stormwater and Flood Management Utility Enterprise Fund

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
System Admin Hardware Upgrade and Enhancements		

Department:	Information Technology	Subcommunity:	
Funding Source:	Computer Replacement Fund	BVCPArea:	
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

It is anticipated that the major system replacement scheduled for 2015/2016 will require additional capacity to meet the city's growing system capacity requirements.

2015 - Purchase 2 additional servers for the virtual server farm ($15,000)
2015 - Purchase additional capacity for the Network Storage Environment ($50,000)
2015 - Planning and consulting costs ($40,000)

Rationale/Impact:

Public Process Status, Issues:

Relationship with Other Departments:

Est Total Cost	Annual On-going Operating Costs
$105,000	

Description:	additional operating costs are expected to be minimal due to the utilization of site licenses for the operating system. Hardware support costs are included in the estimated hardware purchase price since they are acquired with the hardware.
Source of Funding:	Unfunded

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
University Hill Commercial Area Pennsylvania Event Street Pilot		

Department:	DUHMD	**Subcommunity:**	Central Boulder
Funding Source:		**BVCPArea:**	Area I
Category:			
Status:			
CEAP Required:	No	**CEAP Completed:**	

Project Description:

Due to its small size and constrained location, the University Hill commercial district lacks public plazas, parks or similar areas for community gatherings and events. A section of Pennsylvania Avenue is proposed to be redesigned and retrofitted to become a multi-purpose event street that would accommodate festivals, special events and community gatherings. The Pennsylvania Event Street would be a pilot project that could incorporate many shared street concepts but be tailored to facilitate closure and production of events, such as special lighting, infrastructure for tenting and access to electricity, and could be used as a model for other commercial districts. During other times, it would continue to function as a transportation corridor and provide parking but could emphasize biking and pedestrians. The area has been used successfully for numerous special events (Hill 2K, Hill Flea, Snacks and Jazz).

Rationale/Impact:

The Pennsylvania Event Street project meets several of the guiding principles including meeting the emerging needs of public event spaces on the hill, supports the Economic and Social Community Sustainability Goals and improves existing assets.

Public Process Status, Issues:

The revitalization of the Hill has been a City Council for several years. The Hill Ownership Group and the University Hill Commercial Area Management Commission are both committed to creating more diversified offerings on the hill.

Relationship with Other Departments:

The project design and implementation would be coordinated with the Transportation, Community Planning and Sustainability and the Parks Department.

Est Total Cost	Annual On-going Operating Costs
$550,000	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
University Hill Commercial Area Street Tree Irrigation System		

Department:	DUHMD	Subcommunity:	Central Boulder
Funding Source:		BVCPArea:	Area I
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

The project is to install an irrigation system for all the street trees within the University Hill Commercial Area.

Rationale/Impact:

The Street Tree Irrigation project would protect and enhance the existing investment of street trees in the commercial district, would in turn support the Economic and Environmental Community Sustainability Goals and create efficiencies in maintenance and operations.

Public Process Status, Issues:

The revitalization of the Hill has been a City Council Priority for several years. Street trees are a key element of the streetscape in the hill commercial district and have been a priority of the University Hill Commercial Area Management Commission. Healthy, flourishing street trees are essential to the esthetics within the business district.

Relationship with Other Departments:

The Parks Department would be a partner in the design and installation of this project.

Est Total Cost	Annual On-going Operating Costs
$520,000	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
University Hill Commercial District Interactive Kiosks		

Department:	DUHMD	Subcommunity:	Central Boulder
Funding Source:		BVCPArea:	Area I
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

The Hill commercial district is located at an important interface between CU and the Boulder community. Interactive information kiosks are proposed to be located along Broadway at the College and Pennsylvania Avenue intersections. The kiosks would have dual purpose – to act as event posting locations (similar to those on the Pearl Street Mall) as well as provide an interactive touch screen for community and CU events and area attractions and businesses. The kiosks would provide information relative to commercial businesses, direction to parking, event information, and more.

Rationale/Impact:

The interactive kiosks support the Economic and Social Community Sustainability Goals by enhancing access to information about community events and area businesses

Public Process Status, Issues:

Revitalization of the Hill has been a City Council priority for several years. The Hill Ownership Group of community stakeholders (CU administration and students, permanent residents, property and business owners, and city staff) and the University Hill Commercial Area Management Commission are committed to building bridges between competing interests and creating a positive hill community that expresses the hill's vibrancy and creativity.

Relationship with Other Departments:

DUHMD/PS would coordinate with the Transportation Department and Community Planning and Sustainability. Also, CU would be contacted about their involvement as well as the Boulder Convention and Visitors' Bureau and the CU Alumni Association.

Est Total Cost	Annual On-going Operating Costs
$380,000	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
University Hill Commercial/Residential Gateway Features		

Department:	DUHMD	**Subcommunity:**	Central Boulder
Funding Source:		**BVCPArea:**	Area I
Category:			
Status:			
CEAP Required:	No	**CEAP Completed:**	

Project Description:

The University Hill commercial district is a small area located between two large neighbors – the main campus of the University of Colorado and the hill residential area. The Hill Gateway project would focus along 12th Street on the three primary pedestrian corridors between the University and the residential neighborhood – College, Pennsylvania and Pleasant. The goal would be for the gateways to alert passersby to the transition between the character of the residential neighborhood and that of the commercial district and the campus. Through thoughtful public art and streetscape design, the project would celebrate the special character of the University Hill neighborhood and communicate the distinct qualities of different components of the hill. The project would be integrated with the Pennsylvania Event Street project.

Rationale/Impact:

The hill gateway features contribute to the Social Community Sustainability Goal and improve existing assets.

Public Process Status, Issues:

Revitalization of the Hill has been a City Council priority for several years. The Hill Ownership Group of community stakeholders (CU administration and students, permanent residents, property and business owners, and city staff) and the University Hill Commercial Area Management Commission are committed to building bridges between competing interests and creating a positive hill community that expresses vibrancy

Relationship with Other Departments:

The project team would involve the Transportation and Library Arts Departments, the CU/City Liaison and representatives from the University and Hill residential neighborhood.

Est Total Cost	Annual On-going Operating Costs
$500,000	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
University Hill Pedestrian Scale Corridor Lighting in the Univ Hill High De		

Department:	DUHMD	Subcommunity:	Central Boulder
Funding Source:		BVCPArea:	Area I
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	

Project Description:

The project proposes adding pedestrian scale lighting to primary pedestrian corridors within the hill's high density residential area to increase safety. Potential corridors include: 12th Street – Pleasant to Aurora; College Avenue, Pennsylvania Avenue and Pleasant Street, - 9th to 12th. A thorough study and extensive community input would be required to establish a final design. Pedestrian scale lighting already exists within the boundaries of the commercial district. Cost estimate is $1.8 to $5 million. The costs are dependent on the quality of light fixture and frequency of spacing.

Rationale/Impact:

Pedestrian scale lighting on the hill supports the social Community Sustainability Goal by enhancing public safety and meets an emerging need articulated by the hill neighborhood.

Public Process Status, Issues:

Relationship with Other Departments:

The Transportation Department would be the lead working with Community Planning and Sustainability, DUHMD/PS and the CU/City Liaison. CU would also be involved.

Est Total Cost	Annual On-going Operating Costs
$5,700,000	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Valmont City Park Phase 2 Development		

Department:	Parks & Recreation	**Subcommunity:**	East Boulder
Funding Source:		**BVCPArea:**	Area I
Category:	High-Priority Action Plan		
Status:	Major Planning Needed		
CEAP Required:	No	**CEAP Completed:**	

Project Description:

Phase 2 of Valmont City Park will include the design and development of the area south of Valmont Road. The development may include a new sports field complex with multi-use athletic fields, baseball/softball fields, lighted play courts and potentially utilizing artificial turf. A permanent 18-hole disc golf course could be developed in the northwest portion of the site as well as improvements to existing multi-use pathways with proposed connections to other park trails. A Universally Accessible Play Area has been proposed in conjunction with an adventure play area using enhanced landscaping with efficient, water-conserving irrigation. The existing poultry barn north of Valmont Road will be considered for remodeling for multi-use events. Additional park amenities may include picnic areas, parking areas, potential skate area and an outdoor performance area. The development will incorporate sustainable construction and infrastructure with prairie dog relocation, stormwater management and efficient water conservation.

Rationale/Impact:

Public Process Status, Issues:

In 2013 the Parks and Recreation Department will initiate a robust community engagement process that will build upon the current concept plan for Valmont City Park by reviewing the current trends and needs within the community relative to the current amenities planned for future development of the park.

Relationship with Other Departments:

Parks and Recreation will coordinate with all applicable City deparments throughout the planning and development process.

Est Total Cost	Annual On-going Operating Costs
$25,000,000	$400,000

Description:	Upon completion of all proposed amenities the total maintenance will include annual utilities, labor and preventative maintenance associated with all proposed amenities.
Source of Funding:	Undetermined

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Wastewater Treatment Facility Permit Improvements - Unfunded	421617	0

Department:	PW/ Wastewater Utility	Subcommunity:	Area III
Funding Source:	Wastewater Utility Fund	BVCPArea:	Area III
Category:			
Status:			
CEAP Required:	No	CEAP Completed:	NA

Project Description:

This project is identified for construction needed to address the anticipated Colorado Department of Public Health and Environment Regulation 85 permit requirements.

Rationale/Impact:

Public Process Status, Issues:

Relationship with Other Departments:

None

Est Total Cost	Annual On-going Operating Costs
$18,500,000	

Description:	
Source of Funding:	

City of Boulder Capital Improvements Program
Unfunded Project Status Report

Project Name:	Project Number:	Map Number:
Wittemyer Ponds - Unfunded		

Department:	PW/ Water Utility	**Subcommunity:**	Outside Planning Area
Funding Source:	Water Utility Fund	**BVCPArea:**	Outside Planning Area
Category:	Low-Priority Action Plan		
Status:	Major Planning Needed		
CEAP Required:	Yes	**CEAP Completed:**	No

Project Description:

This project provides funding for the lining of Wittemyer Ponds based on the probability that Denver Water will receive a permit for the enlargement of Gross Reservoir in the near future. Based on the Intergovernmental Agreements (IGA) between Boulder, Lafayette and Denver Water, Boulder has agreed to use its water rights to fill the Environmental Pool to the degree that Lafayette is unable to do so with its water rights. Long term, Boulder's Open Space and Mountain Parks Department (OSMP) would provide the necessary water rights and the Water Utility would provide space in a lined Wittemyer Ponds complex. However, because OSMP currently doesn't have any water rights that can readily be used for this purpose, the Water Utility would use its CBT and Windy Gap water to the extent it doesn't affect municipal water deliveries. OSMP would pay the Utilities Division for the water that is used solely for this purpose since some of the water could be leased to downstream users. Detailed plans and studies are needed to determine how this will be accomplished. Longer term, OSMP would either change the water rights associated with some of its ditch company shares, or acquire new water. Although lining of Wittemyer is not necessarily required to get the Gross program underway, it would be useful to recapture the dedicated instream flow water. Without the lined ponds, any water used for Gross will be lost and more overall water will be needed.

Funding allocated in the current CIP is for planning and design only. Construction funding (unfunded in the City 2014-2019 CIP) is allocated in the Water Utility 20-year CIP in 2020 and is expected to be fully allocated in 2020 in the City 2015-2020 CIP.

This project will begin in 2018
Costs:

1. Planning and Design: $ 573,735
2. Land Acquisition: $ 0
3. Construction: $ 4,737,354 (2020)

The project is anticipated to complete construction in 2021.

Rationale/Impact:

Public Process Status, Issues:

The strategy for public process will be defined during next year's budget process.

Relationship with Other Departments:

Open Space & Mountain Parks

Est Total Cost	Annual On-going Operating Costs
$4,737,354	

Description:	
Source of Funding:	

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Appendix C, CEAP PROJECTS

The City of Boulder assesses potential impacts of conceptual project alternatives in order to inform the selection and refinement of a preferred alternative. The evaluation of these alternatives is known as a Community and Environmental Assessment Process or CEAP.

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.

All CEAPs include an analysis of the project and alternatives, including how the project will further implement the BVCP, master plan goals, or subcommunity or area plans. The alternatives are then analyzed through a checklist of impacts to: natural areas or features, riparian areas/floodplains, wetlands, geology & soils, water quality, air quality, resource conservation, cultural/historic resources, visual quality, safety, physiological well-being, urban services, special populations, and the economy.

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.

The 2007 Handbook provides that a project should be evaluated through a CEAP if it meets any of the following criteria:

- A project or a potential alternative could have a significant impact on an environmental, social, or cultural resource and the project would benefit from a CEAP;
- The project is anticipated to generate enough neighborhood or community input to require a public hearing or board review;
- There is more than one possible conceptual alternative that will require staff or community input in the selection; or
- The project requires alternatives analysis as part of internal or external permitting and review processes at the local, county (1041), state, or federal level (NEPA).

An internal city CEAP should be performed prior to submitting for a local permit or to the external

agency. Annually, the list of Capital Projects is reviewed by the internal city CEAP review group, and the group discusses projects that may need a CEAP. Projects that require Concept and Site Plan Review do not go through the CEAP and are not reviewed by the CEAP Review Group.

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.

The following capital improvement projects proposed for funding in the 2014-2019 CIP are recommended to complete a Community and Environmental Assessment Process (CEAP).

Open Space & Mountain Parks Department

- Historical Structures and Trails – Stabilization & Restoration * (Page 135)
- Visitor Infrastructure – System Wide * (Page 145)

Parks & Recreation Department

- Violet Park (Page 172, In conjunction with Greenways Fourmile Canyon Creek improvements)

Transportation Division

- 28th Street (Baseline to Iris) (CEAP completed 2001) (Page 186)
- 28th St. Path Improvements: Iris to Yarmouth (Page 187)
- Baseline Underpass: Broadway to 28th (Page 188)

Utilities Division/Greenways

- Barker Dam Hydroelectric & Dam Outlet (Page 238 and 239)
- Fourmile Canyon Creek at Crestview & 19th Street (Completed in 2012, Page 108)
- Fourmile Canyon Creek Upland to Violet (Page 109)
- NCWCD Carter Lake Pipeline & Hydroelectric (Page 248)
- South Boulder Creek Flood Mitigation Improvements (Page 220)
- Upper Goose Creek Drainage Improvements (Page 224)
- Witemeyer Ponds* (Page 264)
- Wonderland Creek – Kalmia to Winding Trail (Page 111, CEAP Completed in 2013)

*As the scope of work is defined the necessity of a CEAP or other public review will be determined.