



# **FY 20 21** | **CAPITAL IMPROVEMENT PROJECTS**

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### **What is a Capital Improvement Program?**

The City of Columbia's Capital Improvement Program (CIP) is a multi-year plan for capital investments in the City's infrastructure, facilities, and equipment. It is designed to address the challenges of supporting future infrastructure needs, while also addressing the City's current facility requirements. It includes items such as roads, bridges, sidewalks, public utilities, drainage projects, recreational facilities, building, and equipment. A CIP is important because it connects city development, comprehensive plans and financial plans. Projects within the CIP are intended to reflect the community's values and goals, and also the overall policy goals of the City Council, including existing city-wide long range plans.

Columbia's City Charter provides policy for the Manager to follow in developing a CIP:

"The City Manager shall also secure an estimate of all capital projects pending and those which it is recommended should be undertaken (a) within the budget year, and (b) within the next five (5) succeeding years. In preparing the budget, the city manager shall review and may revise the estimates, as the manager may deem necessary."

#### **Article 5. Section 35.**

The City of Columbia's master plans are the basis for the CIP. Columbia has several master plans designed to reflect the long-term needs and goals of each department. These plans are formulated to establish long term development plans that reflect Council policies. These long term plans are periodically revised and updated to reflect the City's changing needs. The CIP is meant to contain projects that fulfill these long-term needs and goals.

### *City of Columbia Master Plans*

- Community Development Department Master Plans
  - Sidewalks
  - Bicycles
  - Columbia Imagined: The Plan for How We Live and Grow
  - 2040 Long Range Transportation Plan
  - Metro Greenbelt/Trails
  - CATSO Major Roadway Plan and Transportation Improvement Plan
- Fire Master Plan
- Airport Master Plan
- Parks and Recreation Master Plan
- Transit: Long Range Plan, Para-Transit, CBD
- Sewer Master Plan
- Water and Light
  - Electrical distribution
  - Water distribution
  - Water system
- COLT (Railroad)
- Downtown Columbia Charrette Report (2010)

The CIP manual is intended as a communication device, giving the public an opportunity to view the City's proposed plans for capital investment as well as providing the necessary link for offering feedback to the City Council and the City staff.

### **How is the CIP Document organized?**

The CIP Document provides a listing, by department of all projects by timeframe and includes the name of the project, status, ward, fiscal year construction begins, the total amount appropriated, funding still needed, and any amounts that are unfunded and/or will require passage of a future ballot in order to be funded and proceed.

Projects within a department are divided into the following timeframes:

- **Annual:** These are projects where an amount of money is set aside for a particular purpose (Annual Streets for example) but a specific project has not yet been identified. As particular projects are identified, the department takes an appropriation request to Council to move the Annual funding to the specific project.
- **Current:** These are projects which have a beginning construction date of FY 2020 or earlier
- **1-2 Years:** These are projects which have a beginning construction date of FY 2021 or FY 2022
- **3-5 Years:** These are projects which have a beginning construction date of FY 2023 – FY 2025
- **6-10 Years:** These are projects which have a beginning construction date of FY 2026 – FY 2030
- **10 Plus Years:** These are projects which have a beginning construction date of FY 2031 or beyond

### **CIP Dashboard**

A CIP dashboard is available on the City's website to provide more detailed information about all of the projects in this document as well as current financial and status updates throughout the life of the project. To access the CIP dashboard:

- Go to [como.gov](http://como.gov) on the internet
- Click on the "Transparency: Data Portal" in the Quick Links section on the left of the screen
- Click on the "CIP Data Portal" link
- Click on the "Capital Projects Dashboard" link
- Click "Click to Continue" to be directed to the dashboard
- Once in the dashboard, you can filter the information by project status, department, ballot issue, beginning construction year, and/or ward
- As you click the filter options, the project list and map information will change
- To see all of the specific information about a project, click on it in the project list. The map will zoom in to show you where the project is located and the project details on the right of your screen will provide a description of the project, current update on the status of the project, ballot issue, ward and financial information about the project. This information is updated each evening from our CIP software, so you can follow the progress of the project throughout its life.

### **How is the CIP developed?**

The CIP begins as a planning document, which gives the City an opportunity to prioritize and coordinate existing and future capital project needs. It is prepared under the direction of the City Manager with the assistance of the Planning and Finance Departments. The City staff review of capital projects has proven to be almost a year-round process, with all city departments continually reexamining and prioritizing their capital needs. However, the capital financing process is most involved from January through May each year. During this period City staff is responsible for compiling project needs, reviewing cost estimates, identifying financing options and planning a program schedule. Meetings are scheduled with each department to review, add, modify and prioritize all project requests. The CIP is first reviewed by the Planning and Zoning Commission to focus on identifying projects and capital needs that were not represented, followed by City Council review to propose any changes

in project priorities. Following approval from the Council, it then becomes a financial document so the City can determine capital projects that are within its current and future fiscal capacity. A summary of the CIP process is provided below.

Schedule	Task
January	Projects are discussed within departments
February	Project priorities are discussed between departments and City administration
March	Final project requests are submitted by departments
March/April	Requests are compiled into a CIP document. Preliminary CIP is compiled and is reviewed by City Manager. Draft CIP Document is also reviewed by the Planning & Zoning Commission.
May/June	Council reviews and approves the CIP and the CIP document is made in final draft form. CIP then becomes a basis for what to include in budget.
July	Public hearing is held on the CIP. A five year CIP, with funding needs, is presented to Council with budget document and the public is given the opportunity to comment.
August	Budget hearings are held. The public has additional opportunities to comment.
September	Budget hearing incorporating final revisions and adoption of yearly CIP with approved adjustments. Revised CIP document is prepared to reflect any changes made during the budget process.

Deciding which CIP projects to move forward and determining project timing are both very important to serving the needs of the City of Columbia. During the initial stages of the annual CIP process, departments prioritize CIP project requests based on six different categories ranging from Urgent to Deferrable. Using common criteria for determining and prioritizing CIP projects is critical to formulating long-term and short-term plans that reflect the City's values and goals.

Various citizen committees may be formed and appointed by the Council to evaluate projects to be funded through proposed ballot issues. A recent example was the committee formed to assist with passage of the Transportation Sales Tax issue approved by voters in November 2005, which included a list of priority projects to be funded by this tax as part of the CIP.

### **How are projects in the CIP funded?**

The City of Columbia Finance Department evaluates the City's ability to pay for proposed capital projects. This is accomplished by reviewing past revenue and expenditure trends, as well as forecasting future revenues and expenditures for the course of the CIP period. The purpose of this process is to determine the amount of revenue, reserves, and fund balances available from existing sources to pay for capital investments to meet community needs. Following is a list of funding sources for City of Columbia CIP.

### **Capital Improvement Sales Tax**

The City of Columbia uses the Capital Improvement Sales Tax to meet capital needs for Public Safety and Transportation. This is a temporary one-quarter cent (0.250%) sales tax which was first approved in 1991 and must be approved by voters to be extended. In August, 2015 voters approved the extension of the sales tax which will expire on December 31, 2025.

### **Parks Sales Tax**

Columbia voters approved a one-quarter cent (0.250%) Parks Sales Tax in April, 2000. Half of this tax, or one-eighth cent (0.125%), is a permanent tax to support operational costs as well as limited capital projects. The remaining one-eighth cent is temporary and must be presented to the voters to be extended. This temporary portion has been used for capital projects, including construction of new parks and trails. The current one-eighth temporary tax was extended by voters in November 2015, for six years, and will expire March 30, 2022.

### **Development Charges**

When a building permit is issued for new construction, the City of Columbia assesses a fee, currently \$0.50 per square foot. Revenue from this fee is used for construction of collector and arterial streets.

### **County Revenue**

This revenue originates with Boone County's one-half cent (0.500%) sales tax for road and bridge maintenance. Boone County has agreed to share a portion of the revenue with local municipalities. The City of Columbia utilizes this funding source to improve, maintain, construct and repair city streets and roads. This County tax was renewed by voters in 2008 for a 10-year period, and expires in 2018.

### **Transportation Sales Tax Fund**

This fund accounts for the City's one-half cent (0.500%) sales tax used to fund transportation-related projects. Examples include the public mass transportation system, construction and maintenance of streets, roads, bridges and airports, to the extent of tax revenues.

### **Designated Loan Fund**

This fund includes monies set aside to provide loans to various Enterprise and Internal Service Funds.

### **Public Improvement Fund**

The Public Improvement Fund was established to account for and disburse the portion of 1% General Revenue sales tax proceeds which have been allocated for the Capital Improvement Plan. The fund receives a portion of the city sales tax and is allocated for a wide range of public improvements to the City which includes general government projects in the Capital Improvement Plan. The amount of the one cent General Fund Sales Tax allocated to capital improvements from FY 2001 to FY 2019 was 4.1%. In FY 2020, City Council approved an amendment to reallocate 2.1% of the General Sales tax back to the General Fund.

### **Bond Funds**

Utility funds (Water, Electric and Sewer) may obtain voter approval for bond issues to help finance their capital project needs.

## **General Government Capital Projects**

### **Planning**

Long term capital planning for General Government needs includes capital projects for public facilities and other community-related capital projects the City chooses to support. Examples include community-based capital projects in the City's central business area. The City has worked closely with Special Business District and other groups to provide funding for improvements to the central business area of the City. Capital contingency funds are also budgeted in this section.

### **Funding**

The City primarily uses local funding sources to meet its capital improvement needs for General Government projects. However grant funds are utilized whenever possible. The amount of the one cent General Fund Sales Tax allocated to capital improvements for FY 2021 is 2%.



## Other General Government CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Appro- priated	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Annual</b>						
1 Contingency 40138 [ID: 518]	On-going			\$53,878		
2 Downtown Special Projects 00140 [ID: 519]	On-going	1		\$376,261		
3 Pub Bldgs Major Maint Ren 00021 [ID: 514]	On-going	Citywide		\$1,157,633	\$1,910,000	
3 Projects				\$1,587,772	\$1,910,000	\$0

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>						
1 Addl Salt Storage Bldg (Mun Serv Center S) - 00632 [ID: 1831]	Proposed	TBD	2019	\$2,895,000		
2 Disabilities Commission Projects 00544 [ID: 1730]	Proposed		2013	\$2,000		
3 Enterprise Resource Group Software COFERS- 00476 [ID: 1397]	Proposed		2012	\$8,144,438		
4 Maintenance Percent for Art City Hall - N0252 [ID: 2213]	Proposed			\$40,546		
5 PBMM: Additional Building Assessments 00770 [ID: 2175]	Proposed		2020	\$100,001		
6 PBMM: Armory Building Repairs 00764 [ID: 2190]	Proposed	1	2019	\$395,000	\$20,000	
7 PBMM: Gentry Building Repairs 00767 [ID: 2193]	Proposed	1	2019	\$145,000	\$35,000	
8 PBMM: Health Department Repairs 00768 [ID: 2194]	Proposed	1	2019	\$225,000	\$20,000	
9 PBMM: Howard Building Repairs 00769 [ID: 2195]	Proposed	1	2019	\$140,000	\$5,000	
10 PBMM: Police Building Repairs 00765 [ID: 2191]	Proposed	1	2019	\$670,000	\$270,000	
11 PBMM: Daniel Boone Building Repairs 00766 [ID: 2192]	Proposed	1	2019	\$500,000	\$180,000	
12 Time in Attendance - 00775 [ID: 2212]	Proposed			\$723,611		
13 Walton Bldg Cap Improv 00587 [ID: 1846]	Proposed	1	2015	\$604,161	\$60,000	
13 Projects				\$14,584,758	\$590,000	\$0

<b>1-2 Years</b>						
1 DB Customer Experience Center 00798 [ID: 2263]	Proposed	1	2021	\$278,500		
1 Projects				\$278,500	\$0	\$0

<b>3-5 Years</b>						
1 Grissum Building Renovations 00659 [ID: 1821]	Proposed	1	2023	\$4,827,690	\$2,892,649	
1 Projects				\$4,827,690	\$2,892,649	\$0
<b>18 Total Projects</b>				<b>\$21,278,720</b>	<b>\$5,392,649</b>	<b>\$0</b>



## Parks and Recreation Capital Projects

### Planning

Long term capital planning in the Parks and Recreation Department takes place for two categories of capital projects; parks and trails. Staff uses master plans, the recommendations of the Parks and Recreation Commission, and public input to assist in the planning process. In addition to the large easily identifiable projects, staff has established a generic “annual needs” program which provides funding for projects that are desirable, necessary, and meet needs identified in a master plan, although a specific project may not be identified at this point in time. These annual funds are often utilized as the City’s matching funds for various state and federal grants.

The long-term capital plan is guided by the *2013 Parks, Recreation and Open Space Master Plan*. This ten-year planning document is the result of extensive public input, numerous public and focus group meetings to ascertain citizens’ recreation facility needs and the results of two city-wide surveys. Public hearings were held by both the Parks and Recreation Commission and the City Council prior to their adoption of the Master Plan in October 2013.

The long term capital plan for trails and greenbelts is derived from both the Metro Greenbelt/Trails Plan and the *2013 Parks, Recreation and Open Space Master Plan*. Public input played a key role in the development of the recommendations made in both of these planning documents. Public hearings were held by the Park and Recreation Commission, the Planning and Zoning Commission, and City Council as part of the approval process of the Metro Greenbelt/Trails Plan.

Parks and Recreation staff periodically reviews the condition of the various facilities used to provide recreation programs and services. Citizens also provide feedback on needed improvements and/or enhancements to these facilities. The capital plan for these facilities is developed using such input, as well as guidance from the *2013 Parks, Recreation and Open Space Master Plan*.

### Funding

Parks and Recreation capital projects are primarily funded with a temporary one-eighth cent park sales tax. This tax was first effective in April 2001 and was extended by voters through ballots held in 2005, 2010, and 2015. The current tax was approved by voters for a six-year extension and will expire March 31, 2022. This tax is the primary funding source for the department’s capital improvement program.

After extensive public and user group input, staff recommends to Council a list of projects from the CIP for consideration of funding by the park sales tax. These projects are tied to the ballot issue via legislation and commits the projects for completion pending renewal of the park sales tax. Projects that are currently listed in the CIP as “unfunded” are potential projects to be funded by the next park sales tax ballot issue.

Staff is continuously searching for funding opportunities through various grants and donations. Grants have also provided significant funding for the parks and trail system in Columbia.

## Parks and Recreation CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Appro- priated	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Annual</b>						
<b>Parks Projects</b>						
1 Annual Land Acq/Land Preservation 00662 [ID: 1812]	On-going	Citywide	2017	\$100,000	\$599,648	
2 Annual Park Improv - Major Maint. Programs 00056 [ID: 259]	On-going	Citywide		\$10,476	\$165,000	
3 City School Park Improv 00249 [ID: 257]	On-going	Citywide		\$390,015	\$20,000	
4 Park Roads & Parking 00242 [ID: 260]	On-going	Citywide		\$2,497,177	\$150,000	
<b>Greenbelt/Trails</b>						
5 Annual Trails 00673 [ID: 1813]	On-going	Citywide	2017	\$550,000	\$100,000	
5 Projects				\$3,547,668	\$1,034,648	\$0

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>						
<b>Parks Projects</b>						
1 2010 PST Land Acq: Neighbrhd Parks 00510 [ID: 1383]	In Service	Citywide	2013	\$502,329		
2 2010 PST Land Acq: Prks, Grnwys, Natural Ar 00486 [ID: 1382]	In Service	Citywide	2012	\$1,060,775		
3 ADA Compliance Phase II 00663 [ID: 1820]	Construction	Citywide	2017	\$154,800	\$25,000	
4 Albert-Oakland Park Improvements - 00676 [ID: 1918]	Preliminary Design	2	2017	\$303,433		
5 Albert-Oakland Park Improvements - 00737 [ID: 2141]	Construction	2	2020	\$35,000		
6 Capen/Grindstone Trailhead Improvements 00457 [ID: 280]	Final Design	6	2011	\$118,000		
7 Cosmo Rec Area: Tennis Court Resurfacing - 00735 [ID: 1824]	In Service	2	2019	\$94,000		
8 Downtown Improvements 40074 [ID: 340]	In Service	1	2009	\$117,654		
9 Fairview Park/Bonnie View: Phase II Imprvmnt 00741 [ID: 309]	Proposed	4	2020	\$125,000		
10 Flat Branch Park Expansion - 00686 [ID: 2017]	Preliminary Design	1	2020	\$772,866	\$750,000	
11 Indoor Facility Improvements - 00773 [ID: 2163]	Construction	1, 3	2020	\$26,325		
12 Kiwanis Park Improvements - 00718 [ID: 322]	Construction	4	2019	\$125,000		
13 Magnolia Falls Neighborhood Park Devlpmnt - 00720 [ID: 1819]	Construction	5	2019	\$125,000		
14 Maplewood Home Rehab 00638 [ID: 1974]	Construction	6	2016	\$176,600		
15 Memorial/Heritage Bench Replacement - 00742 [ID: 2142]	Construction	Citywide	2020	\$20,000		
16 Philips Park - Trail and Landscaping Improv.-00703 [ID: 2062]	Construction	6	2018	\$60,000		
17 South Regional Park - Gans/Philips Phase I 00518 [ID: 1176]	Construction	6	2013	\$2,663,123		
18 Southeast Regional Park Tennis Complex - 00693 [ID: 1951]	Final Design	6	2018	\$500,000		
19 Strawn Park: Phase II - 00743 [ID: 1637]	Construction	4	2020	\$200,000		
20 Worley St Park Improvement - 00744 [ID: 1633]	Bid	1	2020	\$75,000		
<b>Greenbelt/Trails</b>						
21 GNM: Clark Lane West, Hinkson Trail/Pedway 00570 [ID: 1767]	In Service	3	2018	\$1,080,631		
22 GNM: County House Trl/Pedway Phase 2 West - 00569 [ID: 1742]	Final Design	4	2017	\$47		
23 GNM: Shepard to Rollins Trail/Pedway 00572 [ID: 1766]	In Service	6	2019	\$2,493,832		
24 Hinkson Cr Trail: Stadium to East Campus - 00698 [ID: 1298]	Final Design	6	2018	\$800,000		
25 Hinkson Creek Trail: Stephens to Clark Lane -00728 [ID: 1188]	Construction	3	2019	\$950,000		
26 Perche Cr Trl Ph I: MKT to Gillespie Bridge- 00699 [ID: 427]	Preliminary Design	4, 5	2020	\$1,200,000		
26 Projects				\$13,779,414	\$775,000	\$0

### 1-2 Years

<b>Parks Projects</b>						
1 Again Street Park Improvements - 00778 [ID: 1952]	Proposed	1	2021	\$100,000		

## Parks and Recreation CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>1-2 Years</b>						
<b>Parks Projects</b>						
2 Battle Park Phase I Development - 00738 [ID: 1959]	Proposed	3	2021	\$320,000		
3 Cosmo Rec Area: Playground Replacement [ID: 2237]	Proposed	2	2022	\$45,000	\$45,000	
4 Cosmo Rec Area: Shelter Replacement [ID: 2029]	Proposed	2	2022	\$325,000	\$325,000	\$325,000
5 Gates Park Development [ID: 2028]	Proposed	5	2022	\$275,000	\$275,000	\$275,000
6 Grindstone Nature Area Improvements [ID: 2138]	Proposed	6	2022	\$200,000	\$200,000	\$200,000
7 MKT Wetlands/Forum Nature Area Restoration - 00779 [ID: 1956]	Proposed	5	2021	\$80,000		
8 Rock Bridge Park Improvements - 00781 [ID: 1657]	Proposed	5	2021	\$125,000		
9 Rock Quarry Park Improvements [ID: 308]	Proposed	6	2022	\$350,000	\$350,000	\$350,000
10 The Vineyards Lake/Park Dvlopment - 00782 [ID: 1950]	Proposed	6	2021	\$75,000		
10 Projects				\$1,895,000	\$1,195,000	\$1,150,000

<b>3-5 Years</b>						
1 Albert-Oakland Park Improvements [ID: 2229]	Proposed	2	2025	\$300,000	\$300,000	\$300,000
2 Battle Park Phase II Development [ID: 2136]	Proposed	3	2024	\$200,000	\$200,000	\$200,000
3 Cosmo Rec Area: Northeast Quarry Area [ID: 1673]	Proposed	2	2024	\$300,000	\$300,000	\$300,000
4 Cosmo Rec Area: Parks Mgmt Center Imprvmnt 00740 [ID: 457]	Proposed	2	2023	\$200,000	\$200,000	\$200,000
5 Creek Ridge Park Development [ID: 1818]	Proposed	5	2024	\$150,000	\$150,000	\$150,000
6 Douglass Park: Skate Park & Aquatic Facility [ID: 2085]	Proposed	1	2023	\$250,000	\$250,000	\$250,000
7 Field Park Improvements [ID: 2228]	Proposed	1	2025	\$125,000	\$125,000	\$125,000
8 MLK Memorial & Battle Garden Improvements [ID: 1679]	Proposed	4	2025	\$150,000	\$150,000	\$150,000
9 Nifong Park Improvements - 00780 [ID: 2238]	Proposed	6	2023	\$22,000	\$22,000	
10 Rothwell Park Improvements [ID: 1655]	Proposed	4	2023	\$150,000	\$150,000	\$150,000
11 Shepard Park Improvements [ID: 1654]	Proposed	6	2023	\$125,000	\$125,000	\$125,000
12 Smithton Park Improvements [ID: 1651]	Proposed	1	2024	\$100,000	\$100,000	\$100,000
13 Stephens Lake Park: SE Trailhead Improvements [ID: 1647]	Proposed	3	2024	\$200,000	\$200,000	\$200,000
14 Waters-Moss - Jones & White Building Renovations [ID: 1632]	Proposed	6	2023	\$175,000	\$175,000	\$175,000
15 Westwinds Park Improvements [ID: 1639]	Proposed	4	2024	\$125,000	\$125,000	\$125,000
16 Whitegate Park Development [ID: 2086]	Proposed	3	2024	\$225,000	\$225,000	\$225,000
<b>Greenbelt/Trails</b>						
17 Bear Creek Trail Renovation: Creasy to Skatepark [ID: 1098]	Proposed	2	2025	\$1,075,000	\$1,075,000	\$1,075,000
18 Chapel Hill Connector - Perche Creek Trail - 00745 [ID: 1949]	Proposed	4	2023	\$500,000	\$500,000	\$500,000
19 Cosmo Park Bear Creek Boardwalk Renovation [ID: 378]	Proposed	2	2025	\$125,000	\$125,000	\$125,000
20 Hominy Creek Trail: Trailhead Improvements [ID: 1648]	Proposed	3	2024	\$100,000	\$100,000	\$100,000
21 MKT Bridge Replacements: #2 & #10 [ID: 1816]	Proposed	4, 5	2023	\$400,000	\$400,000	\$400,000
21 Projects				\$4,997,000	\$4,997,000	\$4,975,000

<b>6-10 Years</b>						
<b>Parks Projects</b>						
1 400 Meter Outdoor Track with Turf Sports Field [ID: 1919]	Proposed	TBD	2026	\$1,000,000	\$1,000,000	\$1,000,000
2 Albert-Oakland Park: Tennis/Pickleball [ID: 2137]	Proposed	2	2026	\$300,000	\$300,000	\$300,000
3 Armory Sports Center Improvements - Gym [ID: 298]	Proposed	1	2027	\$1,200,000	\$1,200,000	\$1,200,000
4 Boxer Park Development [ID: 1667]	Proposed	2	2028	\$60,000	\$60,000	\$60,000
5 Cosmo Rec Area: Football Improvements [ID: 2087]	Proposed	2	2026	\$80,000	\$80,000	\$80,000
6 Cosmo Rec Area: Park Mgmt Center: Rpl Fab Shop [ID: 1677]	Proposed	2	2027	\$400,000	\$400,000	\$400,000
7 Cosmo Rec Area: RC Track Improvements [ID: 1219]	Proposed	2	2028	\$75,000	\$75,000	\$75,000
8 Cosmo Rec Area: Skate Park Expansion [ID: 1687]	Proposed	2	2029	\$750,000	\$750,000	\$750,000
9 Cosmo Rec Area: Skate Park/Roller Hockey Lights [ID: 310]	Proposed	2	2027	\$250,000	\$250,000	\$250,000
10 Cosmo Rec Area: Soccer Field/Concession Imprv [ID: 283]	Proposed	2	2027	\$295,000	\$295,000	\$295,000

## Parks and Recreation CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>6-10 Years</b>						
<b>Parks Projects</b>						
11 Cosmo Rec Area: Tennis Court Lights & Shelter [ID: 1688]	Proposed	2	2029	\$300,000	\$300,000	\$300,000
12 Forum Nature Area Improvements [ID: 1674]	Proposed	5	2029	\$30,500	\$30,500	\$30,500
13 Gans Creek Recreation Area Improvements [ID: 1823]	Proposed	6	2026	\$280,000	\$280,000	\$280,000
14 Garth Nature Area Improvements [ID: 1670]	Proposed	2	2027	\$100,000	\$100,000	\$100,000
15 Kiwanis Park Improvements [ID: 2231]	Proposed	4	2026	\$100,000	\$100,000	\$100,000
16 Kyd Park Development [ID: 1829]	Proposed	2	2028	\$125,000	\$125,000	\$125,000
17 Lake of the Woods Recreation Area Improvements [ID: 2143]	Proposed	3	2027	\$300,000	\$300,000	\$300,000
18 Neighborhood Park Dev - Priority 1 (TBD) [ID: 1817]	Proposed	TBD	2028	\$150,000	\$150,000	\$150,000
19 Nifong Park: Covered Tractor & Implement Structure [ID: 1671]	Proposed	6	2030	\$250,000	\$250,000	\$250,000
20 Norma Sutherland Smith Park: Phase III [ID: 2132]	Proposed	3	2027	\$250,000	\$250,000	\$250,000
21 Proctor Park Improvements [ID: 327]	Proposed	2	2027	\$90,000	\$90,000	\$90,000
22 Racquetball Courts: Outdoor [ID: 1685]	Proposed	TBD	2030	\$100,000	\$100,000	\$100,000
23 Smiley Lane Park Improvements [ID: 1652]	Proposed	2	2030	\$125,000	\$125,000	\$125,000
24 Stephens Lake Park: Amphitheater Phase II Imprv [ID: 1649]	Proposed	3	2030	\$125,000	\$125,000	\$125,000
25 Stephens Lake Park: Arboretum Improvements [ID: 1642]	Proposed	3	2026	\$140,000	\$140,000	\$140,000
26 Stephens Lake Park: E. Walnut Development [ID: 313]	Proposed	3	2029	\$300,000	\$300,000	\$300,000
27 Stephens Lake Park: Playground Improvements [ID: 1643]	Proposed	3	2026	\$225,000	\$225,000	\$225,000
28 Stephens Lake Park: Spraygrounds Improvements [ID: 1644]	Proposed	3	2026	\$175,000	\$175,000	\$175,000
29 Strawn Park Improvements [ID: 2139]	Proposed	2	2026	\$150,000	\$150,000	\$150,000
30 Synthetic Turf Sports Complex [ID: 1827]	Proposed	TBD	2026	\$3,200,000	\$3,200,000	\$3,200,000
31 Twin Lakes Rec Area: Lake & Misc Park Improvements [ID: 1636]	Proposed	4	2027	\$350,000	\$350,000	\$375,000
<b>Greenbelt/Trails</b>						
32 Bear Creek Trail: Albert-Oakland Park to Lange [ID: 380]	Proposed	2	2027	\$950,000	\$950,000	\$950,000
33 Bear Creek Trail: CCRA to Blackfoot Rd. [ID: 1659]	Proposed	2	2028	\$500,000	\$500,000	\$500,000
34 Bear Creek Trail: Hard Surface Wash/Problem [ID: 447]	Proposed	2	2026	\$710,000	\$710,000	\$710,000
35 Bear Creek Trail: Lange to Fairgrounds [ID: 437]	Proposed	2, 3	2028	\$2,600,000	\$2,600,000	\$2,600,000
36 Bear Creek Trail: Proctor Dr Connection 00389 [ID: 1107]	Proposed	2	2026	\$600,000	\$600,000	\$600,000
37 COLT RR Trail Ph 1: Columbia College to Vandiver [ID: 1273]	Proposed	3	2028	\$3,000,000	\$3,000,000	\$3,000,000
38 Cosmo Park Trail-Stadium Diverging Diamond to BCT [ID: 1581]	Proposed	2	2029	\$700,000	\$700,000	\$700,000
39 Cow Branch: Providence to Auburn Hills [ID: 448]	Proposed	2	2029	\$1,820,000	\$1,820,000	\$1,820,000
40 Hinkson Creek Trail: Clark Lane to Vandiver [ID: 1961]	Proposed	3	2026	\$1,750,000	\$1,750,000	\$1,750,000
41 Hinkson Creek Trail: Vandiver pedway to Colt RR [ID: 1661]	Proposed	3	2028	\$1,300,000	\$1,300,000	\$1,300,000
42 Hominy Creek Trail: Old 63 to Green Valley [ID: 1660]	Proposed	6	2029	\$800,000	\$800,000	\$800,000
43 N Fork Grindstone Trail: Confluence to Eastport Pk [ID: 433]	Proposed	3, 6	2026	\$2,700,000	\$2,700,000	\$2,700,000
44 Perche Creek Trail Ph 3: Broadway to I-70 [ID: 1663]	Proposed	2, 4	2027	\$2,600,000	\$2,600,000	\$2,600,000
45 Perche Crk Trail Ph 2: Gillespie to Broadway [ID: 1285]	Proposed	4	2027	\$900,000	\$900,000	\$900,000
45 Projects				\$32,205,500	\$32,205,500	\$32,230,500
<b>107 Total Projects</b>				<b>\$56,424,582</b>	<b>\$40,207,148</b>	<b>\$38,355,500</b>

## Recreation Services Capital Projects

### Planning

Long term capital planning takes place for recreation facilities. Staff uses master plans, the recommendations of the Parks and Recreation Commission, and public input to assist in the planning process.

The long-term capital plan is guided by the *2013 Comprehensive Parks, Recreation and Open Space Master Plan*. This ten-year planning document is the result of extensive public input, numerous public and focus group meetings to ascertain citizens' recreation facility needs and the results of two city-wide surveys. Public hearings were held by both the Parks and Recreation Commission and the City Council prior to their adoption of the Master Plan in October 2013.

Parks and Recreation staff periodically reviews the condition of the various facilities used to provide recreation programs and services. Citizens also provide feedback on needed improvements and/or enhancements to these facilities. The capital plan for these facilities is developed using such input, as well as guidance from the *2013 Parks, Recreation and Open Space Master Plan*.

### Funding

Parks and Recreation capital projects are primarily funded with a temporary one-eighth cent park sales tax. This tax was first effective in April 2001 and was extended by voters through ballots held in 2005, 2010, and 2015. The current tax was approved by voters for a six-year extension and will expire March 31, 2022. This tax is the primary funding source for the department's capital improvement program.

After extensive public and user group input, staff recommends to Council a list of projects from the CIP for consideration of funding by the park sales tax. These projects are tied to the ballot issue via legislation and commits the projects for completion pending renewal of the park sales tax. Projects that are currently listed in the CIP as "unfunded" are potential projects to be funded by the next park sales tax ballot issue.

Another CIP funding source is the Recreation Services User Fees (RSR). A portion of fees paid by park users are set aside to provide funding for capital projects at recreational facilities. Currently, RSR is being used to repay the City's designated loan fund for the construction of the Columbia Sports Fieldhouse. It is anticipated that based on an estimated loan payment of \$120,000 per year, this loan will be paid off in 2028. Additionally, user fees charged at the City's two golf courses and the Activity & Recreation Center (ARC) may only be used for those facilities.

Staff is continuously searching for funding opportunities through various grants and donations.

## Recreation Service CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>						
1 ARC Facility Improvements - RS095 [ID: 2140]	Construction	1	2020	\$46,508		
2 Clary-Shy Community Park Improvements - RS089 [ID: 1825]	Construction	1	2018	\$3,003,270		
3 Hickman Pool HVAC Replacement - RS097 [ID: 2241]	In Service	1	2020	\$275,000	\$45,000	
4 LA Nickell Driving Range Improvements [ID: 2226]	Ready to Close	2	2020	\$50,000		
5 LOW Driving Range Construction RS085 [ID: 306]	In Service	3	2017	\$123,713		
6 Philips Park Improvements - RS092 [ID: 1957]	Final Design	6	2019	\$815,000		
7 Sports Field House - RS090 [ID: 1217]	In Service	6	2017	\$5,592,919		
8 Twin Lakes Recreation Area: Bathhouse Renov 00670 [ID: 1993]	Ready to Close	Citywide	2017	\$25,000		
8 Projects				\$9,931,410	\$45,000	\$0
<b>1-2 Years</b>						
1 ARC Maintenance Improvements - RS098 [ID: 2234]	Proposed	1	2021	\$102,000		
2 Cosmo Rec Area: Rainbow Softball Bat Cages - RS099 [ID: 2245]	Proposed	2	2022	\$50,000	\$50,000	
3 Cosmo Rec Area: Rainbow Softball Center RS086 [ID: 1994]	Proposed	2	2022	\$500,000	\$500,000	\$500,000
4 Cosmo Rec Area: SportsField Light Controls - RS100 [ID: 2235]	Proposed	2	2021	\$23,000		
5 LOW Golf Course: Golf Cart Building Improv RS101 [ID: 2239]	Proposed	3	2021	\$80,000		
5 Projects				\$755,000	\$550,000	\$500,000
<b>3-5 Years</b>						
1 ARC Natatorium Improvements [ID: 2134]	Proposed	1	2023	\$500,000	\$500,000	\$500,000
2 Atkins Sports Complex Improvements [ID: 2227]	Proposed	3	2025	\$250,000	\$250,000	\$250,000
3 Clary-Shy Community Park Improvements: Phase II [ID: 2030]	Proposed	1	2024	\$250,000	\$250,000	\$250,000
4 Cosmo Rec Area: Antimi Sports Complex [ID: 2133]	Proposed	2	2024	\$250,000	\$250,000	\$250,000
5 LOW Aquatic Facility Improvements [ID: 1680]	Proposed	3	2024	\$750,000	\$750,000	\$750,000
6 LOW Golf Course: Bunker and Fairway Improvements [ID: 323]	Proposed	3	2023	\$50,000	\$50,000	
7 Sports Fieldhouse - Phase II [ID: 2135]	Proposed	6	2023	\$6,000,000	\$6,000,000	\$6,000,000
7 Projects				\$8,050,000	\$8,050,000	\$8,000,000
<b>6-10 Years</b>						
1 Albert-Oakland Family Aquatic Center Improvements [ID: 428]	Proposed	2	2028	\$400,000	\$400,000	\$400,000
2 ARC Building Improvements [ID: 297]	Proposed	1	2026	\$250,000	\$250,000	\$250,000
2 Projects				\$650,000	\$650,000	\$650,000
<b>22 Total Projects</b>				<b>\$19,386,410</b>	<b>\$9,295,000</b>	<b>\$9,150,000</b>

## **Public Safety Capital Projects**

### **Planning**

Long term capital planning for Public Safety needs include capital projects for fire stations, major fire equipment and police facilities.

Columbia Fire Department utilizes a fire station location master plan and a vehicle replacement master plan to assist in identifying capital improvement projects. Projects are identified and selected using a cost-benefit analysis. Consideration in the analysis is given to, but not limited to, concerns such as response times, loss prevention, current response trends, and apparatus requirements. Staff presents cost – benefit analysis reports to Mayor and Council for policy decisions and direction. The proposed replacement schedule will allow the City to get closer to its ultimate goal of having major apparatus on a replacement schedule that includes 8 years on the front line and 4 years in reserve.

Since most of the vehicles and equipment in the Police Department are included in the annual operating budget, the primary long term capital need is for facilities. The city previously hired a consultant to do a needs assessment for the current and future police facilities. During that process, it was determined that there is a significant need for larger and improved police facilities. Facilities have been added and are also included in the 1-2 year plan.

### **Funding**

The city utilizes primarily local funding sources to meet its capital improvement needs for public safety; however grant funds are utilized whenever possible.

Sales taxes from the Capital Improvement Sales Tax make up a substantial amount of funding for public safety. In 1991, 1995, 1999, 2005 and 2015 Columbia voters extended the ¼ Cent Capital Improvement Sales Tax ballot issues that included listings of specific projects to be funded with this tax. The current tax expires in December 2025.

A limited amount of funding is provided by the allocation of the city's general sales tax to capital needs. The amount of the one cent General Fund Sales Tax allocated to capital improvements for FY 2021 is 2%.



## Public Safety CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>						
<b>Police</b>						
1 Downtown Police Building Renovation - 00609 [ID: 1807]	Ready to Close	1	2016	\$1,003,019		
2 Police Precinct/Municipal Svc Center N - 00641 [ID: 1336]	Construction	2	2018	\$10,123,891	\$500,000	
3 Records Management System 00498 [ID: 1307]	Construction	Citywide	2015	\$1,558,162		
<b>Fire</b>						
4 Fire Apparatus Equipment 00195 [ID: 490]	Construction	Citywide	2007	\$724,957		
5 Fire Station Sites 40173 [ID: 482]	Proposed	Citywide		\$2,007,000		
6 Replace 2003 Quint (14 years old) 00661 [ID: 1400]	In Service		2020	\$1,026,563		
7 Replace 2004 Quint (14 years old) (00726) [ID: 1402]	In Service		2019	\$1,000,000		
8 Training Academy Repairs - 00630 [ID: 1607]	Construction	2	2016	\$663,022		
8 Projects				\$18,106,614	\$500,000	\$0
<b>1-2 Years</b>						
1 Additional Fire Station #10 (East) - 00732 [ID: 1799]	Proposed	TBD	2022	\$2,500,000		
2 Fire Station #11 (Mun Serv Cntr S) - 00733 [ID: 475]	Proposed	5	2021	\$2,500,000		
3 Replace 2006 Quint (14 years old) - 00783 [ID: 1407]	Proposed		2021	\$1,100,000	\$1,100,000	
4 Replace 2006 Quint (15 years old) [ID: 1408]	Proposed		2022	\$1,150,000	\$1,150,000	
4 Projects				\$7,250,000	\$2,250,000	\$0
<b>3-5 Years</b>						
<b>Police</b>						
1 Police Department Property & Evidence Annex 00727 [ID: 2098]	Proposed	2	2023	\$1,519,987	\$1,500,000	\$1,500,000
<b>Fire</b>						
2 Additional Quint for new fire station #11 [ID: 2152]	Proposed		2024	\$1,200,000	\$1,200,000	
3 Replace 2009 Quint (14 years old) [ID: 1410]	Proposed		2023	\$1,200,000	\$1,200,000	
4 Replace 2009 Quint (15 years old) [ID: 1404]	Proposed		2024	\$1,250,000	\$1,250,000	
5 Replace 2009 Squad (15 years old) [ID: 1414]	Proposed		2025	\$750,000	\$750,000	
5 Projects				\$5,919,987	\$5,900,000	\$1,500,000
<b>6-10 Years</b>						
<b>Police</b>						
1 Police Headquarters Building [ID: 1192]	Proposed	1	2027	\$7,000,000	\$7,000,000	\$7,000,000
2 Police Precinct/Municipal Svc Center N: Phase 2 [ID: 2246]	Proposed	2	2027	\$3,250,000	\$3,250,000	\$3,250,000
3 Police Precinct/Substation - (Mun Serv Center S) [ID: 1727]	Proposed		2027	\$12,000,000	\$12,000,000	\$12,000,000
<b>Fire</b>						
4 Remodel Admin. & Meeting/Conf. Room [ID: 1795]	Proposed	1	2026	\$1,500,000	\$1,500,000	\$1,500,000
5 Replace 1996 Bomb Squad [ID: 1405]	Proposed		2026	\$800,000	\$800,000	\$800,000
6 Replace 1999 Foam Truck [ID: 1401]	Proposed		2026	\$600,000	\$600,000	\$600,000
7 Replace 2009 Quint (11 years old) [ID: 1406]	Proposed		2026	\$1,200,000	\$1,200,000	\$1,200,000
8 Replace 2010 Quint [ID: 1801]	Proposed		2026	\$1,153,000	\$1,153,000	\$1,153,000
9 Replace/Remodel Fire Station 4 [ID: 1403]	Proposed	3	2027	\$2,500,000	\$2,500,000	\$2,500,000
10 Replace/Remodel Fire Station 5 [ID: 1399]	Proposed	3	2027	\$2,500,000	\$2,500,000	\$2,500,000

Public Safety CIP Projects

Project Name		Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
6-10 Years							
Fire							
11	Replace/Remodel Fire Station 6 [ID: 1409]	Proposed	4	2027	\$3,000,000	\$3,000,000	\$3,000,000
11 Projects					\$35,503,000	\$35,503,000	\$35,503,000
28 Total Projects					\$66,779,601	\$44,153,000	\$37,003,000

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## Streets and Sidewalks Capital Projects

### Planning

Long term capital planning for transportation needs takes place for three categories of capital projects: streets, sidewalks and major maintenance. City staff, primarily in the Public Works and Community Development Departments, work with a number of committees to develop comprehensive plans for the City's long-term capital transportation plan. In addition, staff has identified "annual needs" to provide funding for projects that are desirable or necessary to complete because they meet needs identified in a master plan, but the specific project may not be identified at this point in time.

The long term capital plan for streets is determined through the CATSO Major Roadway Plan and the 2040 Long Range Transportation Plan. This plan is used to identify the major roadway classifications in the Columbia metro area. Recommended changes to the plan go through a Policy committee, Technical committee and a public hearing process before being approved. Individual projects are identified from anticipated development patterns, current development and annexations. Smaller street projects are identified from problems with congestion, safety, and bringing older streets up to today's standards.

These projects start with an Interested Parties meeting that include adjacent property owners, businesses, home owners associations and the like; followed by a Public Hearing before the City Council about the details of the project; an ordinance to acquire easements; and a bid call ordinance also brought before Council.

The long term capital plan for sidewalks are determined by the 2040 Long Range Transportation Plan, Sidewalk Master Plan, Bicycle Master Plan and the report on Walkable Columbia. Individual projects are identified from discussions with the Bicycle/Pedestrian Commission, neighborhoods, homeowners association, citizens, and by the City Council. The public involvement process follows the same process as mentioned in the street portion above.

### Funding

The city utilizes a variety of funding sources to meet its capital improvement needs for transportation. They include transportation sales tax, county road rebate Tax, ¼ cent capital improvement sales tax, development charges, developer contributions, tax bills and various federal and state grants.

Sales taxes, in the form of the transportation sales tax and ¼ cent capital improvement sales tax, make up a substantial amount of funding for the transportation capital plan. The transportation sales tax is a ½ cent permanent sales tax used for street construction and maintenance needs as well as subsidies and capital needs for the airport and bus system. The 1/4 cent capital improvement sales tax is a temporary tax which is used to fund streets, sidewalks and public safety needs. A list of projects is presented to voters for their approval of the extension of the tax. In August, 2015 voters approved the extension of the sales tax which will expire in December, 2025.

GetAbout Columbia: In 2006, Columbia, Missouri was selected as one of four communities in the nation to participate in the Federal Highway Administration's Non-Motorized Transportation Pilot program. Columbia's designation as a pilot city came with \$22.4 million in federal funds to help build infrastructure and establish national standards for public awareness and willingness to use active modes of transportation. Facilities constructed include sidewalks, bicycle lanes and routes, intersection improvements, and multi-use paths and trails, that provide connectivity with transit stations, schools, residences, businesses, recreation areas, and other community activity centers.

In 2012, the Federal Highway Administration extended the highway bill to include an additional \$5.9 million to each of the four pilot communities. These funds are being used for additional projects, as well as for new initiatives, to increase bicycle parking and improve signage on trails.

## Public Works Streets and Sidewalks CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Appro- priated	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Annual</b>						
<b>Streets</b>						
1 Annual City/County/State Projects - 40161 [ID: 9]	On-going	Citywide		\$416,342	\$2,400,000	
2 Annual Street Landscaping - 40163 [ID: 13]	On-going	Citywide		\$311,952	\$687,500	
3 Annual Street Reconst (Complete Street) - 00647 [ID: 1899]	On-going			\$240,000	\$347,500	
4 Annual Streets - 40158 [ID: 18]	On-going	Citywide		\$402,024	\$1,510,000	
5 Annual Traffic Calming - 00646 [ID: 1966]	On-going		2016	\$120,158	\$1,186,000	
6 Annual Traffic Safety - 40159 [ID: 15]	On-going	Citywide		\$264,292	\$1,247,432	
7 Contingency (40198) [ID: 2128]	On-going			\$383,209	\$235,068	
<b>Sidewalks</b>						
8 ADA Curb Ramp Installations 00600 [ID: 1877]	On-going	Citywide		\$1,390,841	\$721,500	
8 Projects				\$3,528,818	\$8,335,000	\$0

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>						
<b>Streets</b>						
1 3rd Avenue Alley 00734 [ID: 2125]	In Service	1	2020	\$180,000		
2 Annual Historic Brick Street Renovation 00234 [ID: 12]	Proposed	Citywide		\$266,390		
3 Annual Neighbrhd Curb & Gutter Restoration 00235 [ID: 14]	Proposed	Citywide		\$100,000		
4 Gans Rd:Interchange at 63 00237 [ID: 61]	In Service	6	2008	\$3,306,047		
5 I-70 Dr & Keene Roundabout 00658 [ID: 1998]	In Service	3	2019	\$1,073,249		
6 Nifong -Providence to Forum - 00643 [ID: 97]	Construction	5	2020	\$14,022,692		
7 Ninth & Elm Pedestrian Scramble - 00637 [ID: 1962]	Preliminary Design	1	2019	\$300,000		
8 Providence - Broadway Turn Lane 00713 [ID: 2067]	In Service	1	2020	\$160,000		
9 Ridgemont Bridge Repair 00568 [ID: 1764]	Construction	4	2020	\$119,070		
10 Sinclair-Old Mill Ck-Nifong - 00644 [ID: 190]	In Service	5	2019	\$3,140,000		
11 Urban Forestry Management Plan 00677 [ID: 2004]	Proposed		2019	\$105,000		
12 William Street Traffic Calming 00725 [ID: 2121]	Proposed	6	2019	\$21,840		
<b>Sidewalks</b>						
13 Annual Sidewalk Major Maintenance 00148 [ID: 16]	Proposed	Citywide		\$317,500		
14 Annual Sidewalks/Pedways (New const/re-const 40162 [ID: 17]	Proposed	Citywide		\$211,971		
15 Downtown Sidewalk Improvements 00171 [ID: 10]	Proposed	Citywide		\$156,510		
16 Hitt St Sidewalk: Locust to Alley 00776 [ID: 2221]	In Service	1	2020	\$20,000		
17 Lynn/Oak/Sexton Sidewalk 00685 [ID: 2021]	In Service	1	2019	\$184,754		
18 McKee Street Sidewalk 00712 [ID: 2116]	Construction	3	2020	\$259,945		
19 Sinclair Rd Sidewalk - Nifong to Southampton 00709 [ID: 2079]	In Service	5	2020	\$600,000		
20 St Charles Rd Sdwk: Demaret to Battle Ave 00762 [ID: 2247]	Bid	3	2020	\$723,030		
20 Projects				\$25,267,999	\$0	\$0

### 1-2 Years

<b>Streets</b>						
1 4th Street Pedestrian Island 00772 [ID: 2198]	Preliminary Design	1	2021	\$200,000		
2 Audubon Dr Traffic Calming 00791 [ID: 2254]	Proposed	6	2021	\$30,000		
3 Bray Ave Traffic Calming 00794 [ID: 2257]	Proposed	4	2021	\$30,000		
4 Campusview Dr Traffic Calming 00788 [ID: 2251]	Proposed	6	2022	\$30,000	\$30,000	

## Public Works Streets and Sidewalks CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>1-2 Years</b>						
<b>Streets</b>						
5 Discovery Parkway: Gans to New Haven - 00633 [ID: 1155]	Final Design	6	2021	\$6,572,490		
6 Edgewood Traffic Calming 00789 [ID: 2252]	Proposed	4	2022	\$30,000	\$30,000	
7 Holly Ave Traffic Calming 00750 [ID: 2169]	Proposed	2	2021	\$42,000		
8 Lenoir Connection 00746 [ID: 2162]	Final Design	6	2021	\$1,416,664		
9 Maplewood Traffic Calming 00795 [ID: 2258]	Proposed	4	2021	\$30,000		
10 Proctor Dr Traffic Calming 00786 [ID: 2249]	Proposed	2	2021	\$30,000		
11 Ridgefield Rd Traffic Calming 00787 [ID: 2250]	Proposed	4	2021	\$30,000		
12 Ridgemont Traffic Calming 00790 [ID: 2253]	Proposed	4	2021	\$30,000		
13 Route B Improvements (BL70 to City Limits) 00784 [ID: 2215]	Proposed	Various	2022	\$600,000	\$500,000	
14 Sinclair Rd - Rt K Intersection Improv 00707 [ID: 2073]	Final Design	5	2021	\$1,605,348		
15 Smith Dr Traffic Calming 00752 [ID: 2171]	Proposed	4	2021	\$151,976		
16 Wabash Dr Extension 00522 [ID: 1523]	Preliminary Design	3	2021	\$200,000		
17 Walnut Bridge Repair 00792 [ID: 2256]	Proposed	3	2021	\$65,000		
18 William St/Hinkson Ave Traffic Calming 00751 [ID: 2170]	Proposed	3	2021	\$74,000		
<b>Sidewalks</b>						
19 Audible Pedestrian Signals 00551 [ID: 1769]	Preliminary Design		2021	\$280,000		
20 Audubon Dr Sdwk-Shepard Blvd-N Azalea 00760 [ID: 228]	Preliminary Design	6	2022	\$465,647	\$400,000	
21 Leslie Ln Sdwk - N Garth Av to Newton Dr 00736 [ID: 238]	Bid	2	2021	\$214,245		
22 Maguire Sidewalk Repair 00793 [ID: 2255]	Proposed	6	2021	\$200,000		
<b>Major Maintenance</b>						
23 MM - Walnut from College to Old 63 00747 [ID: 1841]	Proposed	3	2022	\$1,000,000	\$713,336	
23 Projects				\$13,327,370	\$1,673,336	\$0

## 3-5 Years

<b>Streets</b>						
1 Ash Street 4-Way Stop Removal 00714 [ID: 1525]	Proposed	1	2025	\$2,600,000	\$2,146,562	
2 Fairview & Chapel Hill Int Imprvmnts 00618 [ID: 184]	Preliminary Design	4	2024	\$630,000	\$500,000	
<b>Sidewalks</b>						
3 Broadway Sdwk - Maplewood-W Blvd 00759 [ID: 211]	Proposed	4	2025	\$550,000	\$550,000	
4 Broadway Sdwk - Stadium Blvd to Manor - 00756 [ID: 210]	Proposed	4	2024	\$1,300,000	\$1,300,000	
5 Chapel Hill Sidewalk: Fairview to Face Rock [ID: 2218]	Proposed	4	2024	\$450,000	\$450,000	
6 Oakland Gravel Rd Sdwk: Vandiver to Edris [ID: 2217]	Proposed	2	2025	\$500,000	\$500,000	
<b>Major Maintenance</b>						
7 MM - Garth Avenue: BL 70 to Thurman 00777 [ID: 1316]	Proposed	1, 2	2025	\$4,345,000	\$3,950,000	
8 MM - Paris Road Resurfacing 00682 [ID: 2011]	Proposed	3	2023	\$2,182,500	\$1,812,500	
9 MM - Rangeline - Rogers to Wilkes (00785) [ID: 1779]	Proposed	1	2024	\$250,000	\$225,000	
9 Projects				\$12,807,500	\$11,434,062	\$0

## 6-10 Years

<b>Streets</b>						
1 Cherry Street: 6th - 7th Brick St Renovation-00755 [ID: 2216]	Proposed	1	2026	\$500,000	\$500,000	
2 Forum Blvd: Chapel Hill to Woodrail (4 lane) 00771 [ID: 1335]	Proposed	4, 5	2026	\$12,548,000	\$10,600,954	

## Public Works Streets and Sidewalks CIP Projects

	Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>6-10 Years</b>							
<b>Sidewalks</b>							
3	Stadium Blvd Sdwk - I-70 - Primrose 00761 [ID: 217]	Proposed	2	2026	\$300,000	\$300,000	
	3 Projects				\$13,348,000	\$11,400,954	\$0
<b>10 Plus Years</b>							
<b>Streets</b>							
1	Grace Ln. - Richland to Stadium Ext 00700 [ID: 1535]	Proposed	3	2032	\$3,249,396	\$3,104,500	\$3,104,500
2	St Charles Road-Keene to Richland Rd [ID: 138]	Proposed	3	2031	\$8,500,000	\$8,500,000	\$8,500,000
<b>Sidewalks</b>							
3	Broadway & 5th Sdwk-Intrscn Imprvmts [ID: 33]	Proposed	1	2033	\$375,000	\$375,000	\$375,000
4	Pershing Rd Sdwk - Gary to Pearl Av [ID: 236]	Proposed	2	2036	\$219,110	\$219,110	\$219,110
5	St Charles Rd Sdwk 00729 [ID: 2220]	Final Design	3	2040	\$800,000	\$800,000	\$786,953
	5 Projects				\$13,143,506	\$12,998,610	\$12,985,563
<b>68 Total Projects</b>					<b>\$81,423,193</b>	<b>\$45,841,962</b>	<b>\$12,985,563</b>



## **Transit Capital Projects**

### **Planning**

The Capital Improvements Plan (CIP) budget is updated annually. The CIP is a multi-year plan for capital expansion and the replacement of aging facilities or equipment. As part of preparing the CIP, the transit system is evaluated for adequacy and replacement requirements. The Transportation Division transit staff develop recommendations for the CIP. These recommendations then go through a review process, including the Transit and Parking Manager, Director of Public Works, the City Manager, and finally the Columbia City Council.

Various evaluation tools are utilized to prepare recommendations outlined in the annual CIP. These include routine inspections performed by transit staff and fleet operations to evaluate existing infrastructure conditions, compliance with the Federal Transit Administration (FTA) Transit Asset Management System (TAMS) program, and evaluation of existing and projected operating practices.

In addition, an active preventive maintenance program is in place to identify problem areas that may require inclusion in the CIP. This program includes:

1. Monthly walk-through inspections of transit facilities
2. Periodic maintenance and services of transit fleet performed by fleet operations
3. Weekly fleet safety and serviceability inspection, performed by the Safety/Training Dispatcher
4. Daily pre-trip inspections performed by drivers.

### **Funding**

Funding for the transportation CIP program is provided by a combination of transportation sales tax, enterprise revenue, and federal operating assistance from the Federal Transit Administration. Available capital grants are funded 80% from FTA and local shares are 20%. Local shares come from the Transportation Sales Tax. An amount is set aside annually in order to build up funding for bus replacements should the City be awarded a FTA grant.

## Transit CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Appro- priated	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Annual</b>						
1 Annual Bus replacement - PT053 [ID: 1560]	On-going	1		\$0	\$12,722,554	
2 Annual Transit Project - PT050 [ID: 1549]	On-going	1		\$1,125,209	\$2,806,899	
2 Projects				\$1,125,209	\$15,529,453	\$0

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>						
1 5339 Bus Replacement [ID: 2222]	Proposed			\$458,000		
2 Annual Bus Shelters - PT058 [ID: 1965]	Construction			\$226,900		
3 Bus Shelters PT063 [ID: 2145]	Proposed	Citywide		\$100,000		
4 LONO Electric Bus PT061 [ID: 2129]	Proposed			\$2,006,300		
5 Rehab/Renovate Bus Surveil/System PT066 [ID: 2265]	Proposed			\$57,000	\$45,600	
6 Rpl 6 PT Vans/Equipment PT062 [ID: 2144]	Proposed			\$1,315,458		
6 Projects				\$4,163,658	\$45,600	\$0

<b>1-2 Years</b>						
1 Rehab/Renovate Power Distrib Subs. - PT067 [ID: 2266]	Proposed		2021	\$134,903	\$107,922	
1 Projects				\$134,903	\$107,922	\$0
<b>9 Total Projects</b>				<b>\$5,423,770</b>	<b>\$15,682,975</b>	<b>\$0</b>

## **Airport Capital Projects**

### **Planning**

The Capital Improvements Plan (CIP) budget is updated annually. The CIP is a multi-year plan for capital expansion and the replacement of aging facilities. As part of preparing the CIP, airport runways, taxiways, aprons and all associated airfield and public infrastructure are evaluated for adequacy and replacement requirements. The airport staff and contract Consulting Engineers develop recommendations for the CIP based on the Airport Master Plan, existing infrastructure conditions, and FAA or TSA requirements. These recommendations then go through a review process that includes the Airport Manager, Economic Development Director, City Manager, and finally the Columbia City Council.

Various evaluation tools are utilized to prepare recommendations outlined in the annual CIP. These include routine inspections for evaluation and projection of future traffic quantities and types through Airport Master Plan updates, and the evaluation of existing and projected operating practices.

In addition, we have active safety, security and preventive maintenance programs in place to identify problem areas that may require inclusion in the CIP. These programs include:

1. Three daily inspections of all airfield areas by Airport Safety Officers
2. FAA issued CertAlerts and Advisory Circulars
3. Wildlife Hazard Management Plan
4. TSA issued Airport Security Plan 1542 amendments
5. Monthly and annual inspections by Airport Maintenance personnel in compliance with the FAA-approved pavement maintenance plan
6. Periodic crack filling and sealing of all airfield paved areas in accordance with the pavement maintenance plan
7. Annual compliance inspection by FAA officials
8. Annual compliance inspection by TSA officials

### **Funding**

Funding for the airport CIP program is a combination of Federal Airport Improvement Program (AIP) grants, Missouri Department of Transportation (MoDOT), and City of Columbia matching funds from various sources, including transportation sales tax revenues. This Federal funding covers 90% of qualifying project costs. For major runway projects, AIP discretionary funding may be available (also at 90%) for amounts greater than entitlement fund balances.

The City passed a temporary 1% hotel tax in August of 2016 to fund some of the new Airport terminal project costs including issuing a bond. Other sources that will be used to fund the projects associated with the new Airport terminal include bonding on passenger facility charges, designated loan fund, establishing a parking fee at the airport, FAA grants, and transportation sales taxes.

## Airport CIP Projects

	Project Name	Status	Ward	Begin Construc- tion	Total Appro- priated	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Annual</b>							
1	Annual General Improvements - AP008 [ID: 944]	On-going	Airport		\$193,580		
	1 Projects				\$193,580	\$0	\$0
	Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>							
1	13-31 (5500x100) & TW B Turnarounds AP115 [ID: 1792]	Ready to Close	Airport	2017	\$12,493,116		
2	Columbia Jet Center Parking Expansion AP134 [ID: 2077]	Ready to Close	Outside City		\$42,600		
3	COU Parking Lot AP124 [ID: 2076]	Ready to Close	Outside City	2017	\$1,012,000		
4	Design/Construct Taxilane and Apron (AP140) [ID: 2127]	Construction	Outside City	2020	\$2,256,697		
5	Hangar 730 (AP130) [ID: 2104]	Final Design	Outside City	2018	\$2,867,031		
6	New Terminal Complex: Design & Construction AP111 [ID: 1557]	Preliminary Design	Airport	2019	\$37,576,127	\$14,352,261	
7	R/W 2-20 & T/W A (N Ext 900Ft) (AP125) [ID: 1924]	Bid	Airport	2020	\$10,623,116		
8	R/W 2-20 Tech Ops Agreement (AP128) [ID: 2052]	Ready to Close	Airport	2018	\$99,604		
9	Route H AP123 [ID: 1923]	Ready to Close	Outside City	2019	\$3,715,283		
10	Runway 2-20 Isolated Pavement Remediations (AP126) [ID: 1720]	Ready to Close	Airport	2018	\$6,809,478		
11	Taxiway C and Pavement Management AP122 [ID: 2032]	Ready to Close	Outside City	2017	\$3,284,574		
	11 Projects				\$80,779,626	\$14,352,261	\$0
<b>1-2 Years</b>							
1	Airport Terminal Percent for Art [ID: 2264]	Preliminary Design		2021	\$150,550		
2	Aqueous Film Forming Foam Testing Equipment AP143 [ID: 2240]	Preliminary Design		2021	\$40,000	\$40,000	
3	T/W A:South of R/W 13-31-975X50 Design/const AP139 [ID: 2124]	Proposed	Outside City	2022	\$2,355,448	\$2,355,448	
	3 Projects				\$2,545,998	\$2,395,448	\$0
<b>3-5 Years</b>							
1	Glycol Recovery System AP141 [ID: 2151]	Proposed	Outside City	2023	\$550,000	\$550,000	
	1 Projects				\$550,000	\$550,000	\$0
<b>6-10 Years</b>							
1	Apron Rehab: South Apron, Area 1 - AP996 [ID: 1722]	Proposed	Airport	2028	\$3,655,850	\$3,655,850	\$365,585
2	Apron Rehab: South Apron, Area 2 - AP997 [ID: 1723]	Proposed	Airport	2028	\$1,607,460	\$1,607,460	\$160,746
3	Apron Rehab: South Apron, Area 3, Btwn TW A2 & A3 [ID: 1724]	Proposed	Airport	2027	\$4,086,560	\$4,086,560	\$408,656
4	Design and Reconstruct GA Pavement (AP135) [ID: 2107]	Proposed	Outside City	2029	\$2,755,250	\$2,755,250	
5	Master Plan Update - AP999 [ID: 1936]	Proposed		2029	\$401,100	\$401,100	\$40,110
6	Snow Removal Broom Truck - AP138 [ID: 1937]	Proposed		2028	\$897,855	\$897,855	\$89,785
	6 Projects				\$13,404,075	\$13,404,075	\$1,064,882
<b>22 Total Projects</b>					<b>\$97,473,279</b>	<b>\$30,701,784</b>	<b>\$1,064,882</b>

## **Parking Utility Capital Projects**

### **Planning**

The Capital Improvements Plan (CIP) Budget is updated annually. The CIP is a multi-year plan for capital expansion and the replacement/repair of aging facilities. As part of preparing the CIP, the parking inventory is evaluated for adequacy, and/or maintenance upgrade requirements. The staff of the parking utility develops recommendations for the CIP after consultation with City, other Public Works staff and the Downtown Community Improvement District parking committee. Periodic use of professional consultation to perform a parking study is a major working tool for the Utility. These recommendations then go through a review process that includes the Director of Public Works, the City Manager, and finally the Columbia City Council.

The inputs from all sources are utilized to make the recommendations outlined in the annual CIP. This includes evaluation of parking availability, evaluation of parking growth patterns and upgrade items that will increase customer convenience. Safety issues are continuously a part of the evaluation and include pedestrian traffic, egress issues, lighting, vehicular traffic and security. Communication for customer safety remains a major evaluation issue for the Utility, including ADA compliance throughout all parking areas.

### **Funding**

Funding for the CIP program is Parking Utility Enterprise revenue. In general, since the Parking Utility is required to be self sufficient, then funding would need to come entirely from its enterprise revenues.

A master plan should be developed for the Parking Utility to utilize the entire city and not be restricted to the downtown area. A master plan will provide direction for the future of the utility.

## Parking CIP Projects

	Project Name	Status	Ward	Begin Construc- tion	Total Appro- priated	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Annual</b>							
1	Parking Infra Upgrades & Maint PK062 [ID: 2064]	On-going		2018	\$343,085	\$900,000	
	1 Projects				\$343,085	\$900,000	\$0
	Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>							
1	8th & Cherry - Energy Efficiency - PK058 [ID: 1968]	Proposed	1	2016	\$300,000		
2	Camera System Replacement PK065 [ID: 2111]	Proposed		2019	\$550,000		
3	Elevator Upgrades PK069 [ID: 2155]	Proposed	1	2020	\$429,504		
4	Garage Security Fencing PK071 [ID: 2157]	Preliminary Design	1	2020	\$300,000		
5	MM - 10th/Cherry Parking Structure PK064 [ID: 2072]	Construction	1	2018	\$470,000		
6	MM - 8th/Cherry Parking Structure Roof PK067 [ID: 2112]	Preliminary Design	1	2020	\$100,000		
7	Short Street Garage Bathroom PK070 [ID: 2156]	Preliminary Design	1	2020	\$30,000		
	7 Projects				\$2,179,504	\$0	\$0
<b>1-2 Years</b>							
1	8th/Cherry Garage Major Maintenance PK075 [ID: 2261]	Proposed		2021	\$200,000		
2	Electric Charging Station - 5th & Walnut - PK073 [ID: 2159]	Proposed	1	2022	\$20,000	\$20,000	
3	Garage Building Assessment PK076 [ID: 2262]	Proposed		2021	\$200,000	\$200,000	
	3 Projects				\$420,000	\$220,000	\$0
<b>6-10 Years</b>							
1	Downtown Parking Garage [ID: 1830]	Proposed	1	2029	\$15,000,000	\$15,000,000	
2	Parking Ramp Access Control PK063 [ID: 2065]	Proposed	1	2026	\$50,000		
	2 Projects				\$15,050,000	\$15,000,000	\$0
<b>13 Total Projects</b>					<b>\$17,992,589</b>	<b>\$16,120,000</b>	<b>\$0</b>

# Railroad Capital Projects

## Planning

The Capital Improvements Plan (CIP) Budget is updated annually. The CIP is a multi-year plan for capital expansion and replacement of aging facilities and infrastructure. As part of preparing the CIP, the short line railroad is evaluated for adequacy and replacement requirements. The railroad engineering staff develops recommendations for the CIP based on the condition of existing infrastructure, other public projects impacting the railroad, railroad traffic conditions, railroad customer requirements, and railroad operating requirements. These recommendations then go through a review process including the Director of Water & Light, the City Manager, the Railroad Advisory Board (a citizen advisory board), and finally the Columbia City Council.

Various evaluation tools are utilized to make recommendations outlined in the annual CIP. These include evaluation of existing infrastructure condition through routine inspections, review of maintenance records, evaluation and projection of future traffic quantities and types, evaluation of existing and projected operating practices, and use of detailed analytical models to predict failure rates and asset lives.

## Funding

Funding for the railroad CIP program is a combination of enterprise revenue and funding from other governmental entities.



## Railroad CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Appro- priated	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Annual</b>						
1 Annual Capital Maintenance - R0045 [ID: 626]	On-going	3, Outside City		\$825,086	\$100,000	
2 Annual Rail Replacement Program - R0014 [ID: 627]	On-going	3, Outside City		\$506,850	\$100,000	
3 Annual Surfacing Program - R0013 [ID: 629]	On-going	3, Outside City		\$489,183	\$100,000	
4 Annual Tie Program - R0012 [ID: 630]	On-going	3, Outside City		\$1,484,949	\$100,000	
4 Projects				\$3,306,068	\$400,000	\$0
<b>4 Total Projects</b>				<b>\$3,306,068</b>	<b>\$400,000</b>	<b>\$0</b>

## **Water Capital Projects**

### **Planning**

The Capital Improvements Plan (CIP) Budget is updated annually. The CIP is a multi-year plan for capital expansion and replacement of aging facilities and infrastructure. As part of preparing the CIP, the water system is evaluated for adequacy and replacement requirements. The water utility engineering staff develops recommendations for the CIP after consultation with the water distribution and water production staff. These recommendations then go through a review process including the Director of Water & Light, the City Manager, the Columbia Water & Light Advisory Board (a citizen advisory board), and finally the Columbia City Council.

Various evaluation tools are utilized to make the recommendations outlined in the annual CIP. These include evaluation of fire flows and system pressure; evaluation of customer growth patterns; communication with inter-connected systems; and the evaluation of needs to upgrade smaller size lines and/or replace older lines due to a history of breaks.

In addition, an active preventive maintenance program is in place to identify problem areas that may require inclusion in the CIP. This program includes:

- 1.) Formal monthly inspections of pump stations and storage facilities.
- 2.) Annual flushing and testing of distribution systems.
- 3.) Sampling and monitoring of supply wells.
- 4.) Cooperation and compliance with State operated agencies such as the Department of Natural Resources

### **Funding**

Funding for the water CIP program is a combination of revenue bonds and enterprise revenue. In general, an attempt is made to balance funding between these two sources, with more reliance on bond funding when undertaking projects lasting a long period of time. Staff has evaluated the capital plan to place a higher emphasis on production and storage upgrades during the next several years. A ballot issue was approved by voters in August 2018. These revenue bonds will provide funding for numerous identified projects for the period FY 2019 - FY 2023. Enterprise revenue and prior year appropriations will provide funding for other CIP projects in FY 2021.

## Water CIP Projects

Project Name	Status	Ward	Begin Construction	Total Appropriated	Funding Still Needed	Unfunded/Future Ballot Amount
<b>Annual</b>						
1 Installation of New Mains to Create Loops - W0123 [ID: 586]	On-going	Citywide		\$2,340,755	\$1,000,000	
2 Main Relocation for Streets & Highways - W0125 [ID: 589]	On-going	Citywide		\$4,198,116	\$2,800,000	\$1,200,000
3 New & Replacement Service Lines - W0128 [ID: 592]	On-going	Citywide		\$11,048,264	\$650,000	
4 Water Main Replacements - W0130 [ID: 590]	On-going	Citywide		\$4,099,721	\$6,500,000	\$2,500,000
4 Projects				\$21,686,856	\$10,950,000	\$3,700,000

Project Name	Status	Ward	Begin Construction	Total Project Cost	Funding Still Needed	Unfunded/Future Ballot Amount
<b>Current</b>						
1 16"Main-BrownStationRd-Route B to Peabody-W0230 [ID: 1284]	Preliminary Design	3	2018	\$340,000		
2 Backup Generators for ASR's & Pump Stations W0150 [ID: 649]	Preliminary Design	Citywide	2016	\$800,000		
3 Bus Loop - Phase 6A - 3,200' Main Replace - W0200 [ID: 722]	Preliminary Design	3	2018	\$1,057,561		
4 Contingency - Enterprise Revenue - W0003 [ID: 1865]	Proposed	Citywide		\$505,770		
5 Country Club Drive S/E Walnut Phase 2 - W0273 [ID: 1935]	Preliminary Design	3	2018	\$560,000		
6 Deep Well Abandonment - W0249 [ID: 1500]	Proposed	Citywide	2020	\$110,550		
7 Differential Payments - W0143 [ID: 642]	Proposed	Citywide		\$367,387		
8 Fire Hydrants & Valve Replacements - W0127 [ID: 587]	Proposed	Citywide		\$2,515,000		
9 Leslie Ln -Garth to Providence Relocate - W0297 [ID: 2211]	Preliminary Design	2	2020	\$252,000		
10 Lime Softening Residual Discharge Pipe - W0234 [ID: 1485]	Preliminary Design	Citywide	2020	\$300,000		
11 Main Adjustment-Nifong Blvd Improvements-W0256 [ID: 1507]	Construction	5	2018	\$250,000		
12 New & Replacement of Mains Under Highways - W0119 [ID: 604]	Proposed	Citywide	2018	\$650,000		
13 New Elevated Storage - W0286 [ID: 2031]	Proposed	5	2019	\$3,000,000		
14 New Southeast Pump Station - W0280 [ID: 1989]	Proposed	6	2019	\$3,500,000		
15 Old 63, Gordon St & Charles St Main Repl - W0290 [ID: 2202]	Preliminary Design	3	2020	\$300,000		
16 Replumb Influent Connections at WTP W0211 [ID: 1110]	Preliminary Design	Citywide	2016	\$1,501,763		
17 Riback Rd & Blackberry Ln Main Replacement - W0287 [ID: 2204]	Final Design	6	2020	\$120,000		
18 Ridgemont Rd & Highridge Cir Main Repl - W0291 [ID: 2203]	Preliminary Design	4	2020	\$613,000		
19 Ridgemont Rd-College Pk to Highridge Reloc- W0296 [ID: 2210]	Proposed	4	2020			
20 S Glenwood Ave & Glenwood Ct Main Repl - W00288 [ID: 2205]	Preliminary Design	4	2020	\$143,000		
21 Sinclair Rd, Nifong - Southampton Loop Close-W0292 [ID: 2207]	Proposed	5	2020	\$440,000		
22 Tower and Reservoir Maintenance - W0282 [ID: 2148]	Proposed	Citywide	2020	\$300,000		
23 Walnut St-Melbourne St - William St Relocate-W0295 [ID: 2209]	Preliminary Design	3	2020	\$150,000		
24 Water Meter Replacements - W0231 [ID: 1362]	Proposed	Citywide		\$5,834,804		
25 Well & Pump Station Control W0264 [ID: 1887]	Construction	Citywide	2020	\$763,352	\$100,000	
26 Westwind Dr/S Greenwood:W Bl to Greenwood Ct-W0300 [ID: 2244]	Proposed	4		\$138,000		
27 Woodbine Drive Main Replacement - W0289 [ID: 2206]	Preliminary Design	5	2020	\$124,000		
28 WTP Scada Upgrades - W0278 [ID: 1987]	Construction	Citywide	2017	\$500,000		
28 Projects				\$25,136,187	\$29,000	\$0

<b>1-2 Years</b>						
1 Construct Warehouse & Enclosed Parking - W0263 [ID: 1695]	Preliminary Design	Citywide	2022	\$1,000,000		
2 Fiber to Water Facilities - W0283 [ID: 2149]	Proposed	Citywide	2021	\$250,000		
3 LOW: St. Charles to Mexico Gravel Main Rep - W0298 [ID: 2243]	Proposed	3	2021	\$1,200,000		
4 New Well Platforms - W0279 [ID: 1988]	Proposed	Citywide	2022	\$1,200,000	\$1,000,000	
5 Refurbish Existing Deep Well for Emergency-W0140 [ID: 581]	Proposed	Citywide	2022	\$550,000	\$350,000	
6 Water Treatment Plant Upgrade - Phase 1 - W0236 [ID: 1487]	Preliminary Design	Citywide	2022	\$23,000,000		\$3,000,000
7 Well Field Valve Upgrades - W0274 [ID: 1983]	Construction	Citywide	2021	\$333,700		
8 West Ash Upgrades - W0145 [ID: 644]	Preliminary Design	Citywide	2021	\$3,300,000		
8 Projects				\$30,833,700	\$1,350,000	\$3,000,000

<b>3-5 Years</b>						
1 16" Main - Barberry to Worley - 4,300 FT - W0244 [ID: 1495]	Proposed	1, 2	2025	\$1,400,000	\$1,400,000	\$1,400,000

## Water CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>3-5 Years</b>						
2 16" Transmission Main to Prathersville Tank-W0242 [ID: 1493]	Proposed	1, 2	2024	\$2,500,000	\$2,500,000	\$2,500,000
3 2MG Elevated Storage - Prathersville - W0243 [ID: 1494]	Proposed	2	2025	\$3,000,000	\$3,000,000	\$3,000,000
4 Brown Station Rd - Stark Av to Mojave Ct - W0241 [ID: 1492]	Proposed	3	2023	\$1,035,000	\$1,035,000	\$1,035,000
5 Gibbs Road/Dawn Drive - W0272 [ID: 1934]	Proposed	2, Outside City	2025	\$1,424,000	\$1,424,000	
6 Replace Alluvial Well #7 - W0276 [ID: 1985]	Proposed	Citywide	2024	\$1,200,000	\$1,200,000	\$1,200,000
7 Waco Rd - Brown Station to Oakland - W0251 [ID: 1502]	Proposed	3	2023	\$1,292,000	\$1,292,000	\$1,292,000
8 Waco Rd - Route B to Rogers - W0252 [ID: 1503]	Proposed	3	2023	\$1,101,000	\$1,101,000	\$1,101,000
8 Projects				\$12,952,000	\$12,952,000	\$11,528,000
<b>6-10 Years</b>						
1 Alluvial Wells #19 AND #20 - W0277 [ID: 1986]	Proposed	Citywide	2027	\$2,000,000	\$2,000,000	\$2,000,000
2 Water Treatment Plant Upgrade - Phase 2 W0285 [ID: 2122]	Proposed	Citywide	2026	\$35,000,000	\$35,000,000	\$35,000,000
2 Projects				\$37,000,000	\$37,000,000	\$37,000,000
<b>50 Total Projects</b>				<b>\$127,608,743</b>	<b>\$62,281,000</b>	<b>\$55,228,000</b>

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# Electric Capital Projects

## Planning

The Capital Improvements Plan (CIP) Budget is updated annually. The CIP is a multi-year plan for capital expansion and replacement of aging facilities and infrastructure. As part of CIP preparation, the electric system is evaluated for adequacy and replacement requirements. The engineering staff of the electric utility develops recommendations for the CIP after consultation with the electric distribution and electric production staff. These recommendations then go through a review process that includes the Director of Water & Light, the City Manager, the Columbia Water & Light Advisory Board (a citizen advisory board), and finally the Columbia City Council.

Various evaluation tools are utilized to make the recommendations outlined in the annual CIP. This includes evaluation of circuit loading after system peak; evaluation of customer growth patterns; communication with inter-connected systems; and, evaluation of the need to upgrade lower voltage lines and/or replace older lines due to a history of faults.

In addition, an active preventive maintenance program is in place that can identify problem areas that may require inclusion in the CIP. This includes:

- 1.) Formal monthly inspections of electric substations.
- 2.) Periodic oil testing of distribution transformers and other major equipment.
- 3.) Infra-red scans of electric substations every six months.
- 4.) Infra-red scans of transformers at large industrial customers annually.
- 5.) Eleven tree-trimming crews to maintain clearances on overhead lines.

## Funding

Funding for the electric CIP program is a combination of revenue bonds and enterprise revenue. This will vary based on the size and timing of projects. The last multi-year revenue bond was passed by voters in 2015. Funds from the initial sale of bonds were appropriated to projects in FY 2015 and FY 2016. Some major projects that were intended to be funded with the first sale of bonds have been postponed for further review. Rather than selling the remainder of the bonds authorized by voters, funds will be moved from these projects to projects that were initially intended to be funded by the second sale of bonds. Subsequently funds will be moved back to the initial projects when the projects move forward and the second bond sale occurs. Funding for several annual projects will come from enterprise revenue.

## Electric CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Appro- priated	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Annual</b>						
1 13.8 kV System - New Commercial Services- E0117 [ID: 556]	On-going	Citywide		\$12,906,442	\$4,800,000	
2 13.8 kV System - New Residential Services - E0116 [ID: 564]	On-going	Citywide		\$9,635,000	\$3,000,000	
3 13.8 kV System Automation - E0200 [ID: 1893]	On-going	Citywide	2020	\$646,637	\$300,000	
4 13.8 kV Underground System Replacement - E0107 [ID: 562]	On-going	Citywide		\$3,080,000	\$250,000	
5 161 & 69 kV Transformer Replacement - E0192 [ID: 1776]	On-going	Citywide		\$1,071,000	\$2,100,000	
6 161&69 kV Transmission System Replacement - E0101 [ID: 567]	On-going	Citywide		\$3,670,000	\$100,000	
7 Contingency Funds from Bonds - E0009 [ID: 557]	On-going	Citywide		\$0	\$900,000	
8 Conversion of Overhead to Underground - E0027 [ID: 555]	On-going	Citywide		\$12,019,432	\$3,700,000	
9 Fiber Optic System Additions - E0082 [ID: 560]	On-going	Citywide		\$3,399,166	\$500,000	
10 MPP: elimination of obsolete equipment- E0208 [ID: 2102]	On-going	Citywide	2020	\$900,000	\$300,000	
11 New & Replace Transformers & Capacitors - E0021 [ID: 559]	On-going	Citywide		\$21,245,081	\$3,500,000	
12 New 13.8 kV Substation Feeder Additions - E0115 [ID: 566]	On-going	Citywide		\$8,147,294	\$4,600,000	
13 Relocation of 13.8 kV System for Streets - E0199 [ID: 1847]	On-going	Citywide		\$1,450,000	\$1,000,000	
14 Replace 13.8 kV Switchgear at Substations - E0189 [ID: 1773]	On-going	Citywide		\$0	\$350,000	
15 Replace 69 & 161 kV Circuit Breakers - E0153 [ID: 1109]	On-going	Citywide		\$1,219,000	\$1,500,000	
16 Secondary Electric System for New Services - E0053 [ID: 563]	On-going	Citywide		\$20,097,298	\$5,250,000	
17 Street Light Additions and Replacements - E0052 [ID: 565]	On-going	Citywide		\$5,256,651	\$250,000	
17 Projects				\$104,743,001	\$32,400,000	\$0

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>						
1 13.8 kV Overhead System Replacement - E0118 [ID: 651]	Proposed	Citywide		\$9,808,000		
2 College Undergrounding-Univ to Bouchelle - E0179 [ID: 1596]	Construction	1, 6	2017	\$400,000		
3 Contingency Funds from Enterprise Revenue - E0003 [ID: 1359]	Proposed	Citywide		\$461,360		
4 Downtown Streetlights - E0180 [ID: 1597]	Construction	1	2016	\$702,000		
5 Landfill Gas Generator #4 - E0175 [ID: 1584]	Final Design	Citywide	2020	\$1,350,000		
6 Mercury Vapor Streetlight Replacement - E0182 [ID: 1599]	Proposed	Citywide	2019	\$250,000		
7 Millcreek & Vawter School Relocation - E0213 [ID: 2201]	Ready to Close	5	2020	\$120,000		
8 More's Lake Restoration - E0204 [ID: 1982]	Construction	Citywide	2017	\$6,300,000		
9 Nifong & Bethel Relocation - E0212 [ID: 2200]	Final Design	5	2020	\$230,000		
10 Power Plant Substation Upgrades - E0151 [ID: 1056]	Preliminary Design	Citywide	2019	\$1,500,000		
11 Protective Relay Upgrade - E0145 [ID: 984]	Construction	Citywide		\$1,063,815	\$200,000	
12 Replace Measurement & Data Acquisition Sys - E0159 [ID: 1203]	Construction	Citywide	2016	\$100,000		
13 Substation Upgrades-Grnstn & Perche - E0194 [ID: 1838]	Preliminary Design	4, 6	2020	\$1,270,026		
14 Truman Solar Feeders - E0205 [ID: 2088]	Proposed	Citywide	2019	\$1,450,000		
14 Projects				\$25,005,201	\$200,000	\$0

<b>1-2 Years</b>						
1 Electric Meter Replacement E0215 [ID: 2153]	Proposed	Citywide	2021	\$8,000,000	\$8,000,000	
2 Hinkson Creek Transformer and Switchgear E0214 [ID: 2232]	Proposed	5	2021	\$950,000		
3 Mill Creek Sub Transmisn Connect to 2 Subs-E0148 [ID: 1050]	Preliminary Design	Citywide	2021	\$15,910,165	\$8,000,000	
4 New South Side 161/13.8 Kv Substation - E0121 [ID: 551]	Preliminary Design	5 or 6	2021	\$7,044,497		
5 Reconfiguration of Substation Feeders-E0201 [ID: 1894]	Proposed	5	2021	\$7,150,000	\$4,300,000	
6 Sewer Connection to Municipal Power Plant - E0211 [ID: 2150]	Proposed	Citywide	2021	\$250,000		
7 UG Distribution Lines in Trans Corridor - E0198 [ID: 1845]	Proposed	4, 5, 6	2021	\$5,000,000	\$4,900,000	
8 Upgrade of Energy Management System - E0216 [ID: 2233]	Proposed	Citywide	2021	\$1,000,000		
9 Warehouse & Enclosed Equipment Parking - E0176 [ID: 1593]	Preliminary Design	Citywide	2021	\$4,800,000	\$4,400,000	\$4,400,000
9 Projects				\$50,104,662	\$29,600,000	\$4,400,000

<b>3-5 Years</b>						
1 Black Start Generation at CEC - E0207 [ID: 2100]	Proposed	Citywide	2023	\$1,000,000	\$1,000,000	\$1,000,000



## Electric CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>3-5 Years</b>						
2 Black Start Generation at MPP - E0206 [ID: 2101]	Proposed	Citywide	2023	\$1,000,000	\$1,000,000	\$1,000,000
3 Broadway Undergrounding - E0120 [ID: 549]	Proposed	1, 4	2025	\$2,200,000	\$2,200,000	
4 Brushwood Lake Road Loop Closure - E0185 [ID: 1602]	Proposed	5, Outside City	2023	\$750,000	\$750,000	\$750,000
5 Business Loop 70 - Phase 5 Undergrounding - E0140 [ID: 689]	Proposed	1, 3	2023	\$2,450,000	\$2,450,000	\$2,450,000
6 Business Loop 70 - Phase 6 Undergrounding - E0141 [ID: 690]	Proposed	1, 3	2023	\$1,500,000	\$1,500,000	\$1,500,000
7 Extend Hinkson Creek Substation Feeders - E0193 [ID: 1837]	Proposed	5	2023	\$10,000,000	\$10,000,000	\$5,000,000
8 Future Substation Transformer - E0184 [ID: 1601]	Proposed	4	2023	\$1,000,000	\$300,000	
9 McBaine Substation Upgrades - E0196 [ID: 1840]	Proposed	Outside City	2024	\$2,500,000	\$2,500,000	\$2,500,000
10 Mill Creek & McBaine Interconnection - E0195 [ID: 1839]	Proposed	Citywide	2024	\$10,000,000	\$10,000,000	\$10,000,000
10 Projects				\$32,400,000	\$31,700,000	\$24,200,000
<b>50 Total Projects</b>				<b>\$212,252,864</b>	<b>\$93,900,000</b>	<b>\$28,600,000</b>

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## **Sanitary Sewer Utility Capital Projects**

### **Planning**

The Capital Improvements Plan (CIP) Budget is updated annually. The CIP is a multi-year plan for expansion, rehabilitation and replacement of sanitary sewer collection and treatment facilities. As part of preparing the CIP, the sanitary sewer collection and treatment facilities are evaluated for adequacy and replacement requirements. The City Utilities Director and Sewer Utility staff develop recommendations for the CIP. These recommendations are then reviewed by the City Manager and the Columbia City Council.

Various evaluation tools are utilized to make the recommendations outlined in the annual CIP. These include petitions requesting private common collector elimination and sewer district projects, the Integrated Management Plan, modeling the sanitary sewer collection system to evaluate existing system capacity; the impact of proposed development and determination of when collection system improvements are necessary; evaluation of customer growth patterns; communication with the Boone County Regional Sewer District regarding inter-connected systems, and the evaluation of the Columbia Regional Wastewater Treatment Plant facility needs.

Currently, an active preventive maintenance program is in place to identify problem areas that may require inclusion in the CIP. This program includes:

1. Annual inspection of trunk sewers along major creeks to identify any creek bank erosion problems that could affect the sanitary sewer collection system.
2. Manhole inspection program to identify sewer manholes that need to be repaired or replaced.
3. Internal television inspection of sanitary sewers to identify lines that need to be rehabilitated or replaced.

### **Funding**

Funding for the sanitary sewer utility CIP program is a combination of revenue bonds and enterprise revenue.

In FY 2013, Columbia voters approved a \$32 million ballot issue for the primary purpose of rehabilitating the existing sewer collection system to address inflow and infiltration. This ballot issue also included funding for elimination of private common collector sewers, sewer extension improvements and digester improvements at the Columbia Regional Wastewater Treatment Plant. A cost of service study was conducted in 2014 to determine rates required to sustain and expand the sewer division as the city grows and industry standards and regulations evolve.

In 2018 the City Council adopted the Integrated Management Plan (IMP) for the Sewer and Storm Water Utilities. The goal of the IMP is to develop an adaptable and affordable long-term plan that addresses the City's wastewater and stormwater management needs and meets Clean Water Act requirements. Sewer Utility staff will begin the implementation of the recommendations presented in the IMP and utilize these recommendations to inform future Sewer Utility CIP budgets. Implementation of the IMP will include rate increases and future bond funding ballot issues that will be presented to Council for approval separately from the annual budget process.

## Sanitary Sewer CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Appro- priated	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Annual</b>						
1 Annual 100-Acre Point Trunks Revolving Fd - SW111 [ID: 749]	On-going			\$700,000	\$1,120,000	\$1,120,000
2 Annual Private Common Collectors - SW112 [ID: 752]	On-going			\$905,410	\$2,720,000	
3 Annual Sewer Rehabilitation - SW100 [ID: 753]	On-going			\$7,805,200	\$24,300,000	
4 Annual Sewer System Improvements - SW183 [ID: 750]	On-going			\$1,922,133	\$3,500,000	
4 Projects				\$11,332,742	\$31,640,000	\$1,120,000

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>						
1 Columbia Country Club - SW515 [ID: 2050]	Ready to Close	3	2018	\$85,000		
2 FY 2018 Sewer Rehabilitation Project - SW518 [ID: 2224]	Construction	Citywide	2019	\$2,407,195		
3 PCCE # 3 - Stewart & Medavista Ph I - III- SW198 [ID: 780]	Construction	4	2018	\$1,684,030		
4 PCCE # 8 : Thilly Lathrop SW221 [ID: 1241]	Construction	4	2017	\$2,435,970		
5 PCCE #16 - Bingham Rd & West Ridgeley Rd SW240 [ID: 1366]	Construction	5	2018	\$1,545,000		
6 PCCE #22 - Shannon Place - SW502 [ID: 1603]	In Service	4	2018	\$109,000		
7 Sewer District #170 - S. Bethel Church Road SW232 [ID: 1158]	Ready to Close	5	2016	\$268,380		
8 Upper Merideth Branch Stream Bank Stabiliz. SW245 [ID: 1531]	Ready to Close	4	2018	\$573,000		
9 Woodrail Sewer Replacement Project -SW247 [ID: 1528]	Final Design	5	2017	\$281,049		
10 WWTP - Digester Complex Improvements - SW508 [ID: 1303]	Construction	4	2019	\$7,156,516		
10 Projects				\$16,545,140	\$0	\$0

<b>1-2 Years</b>						
1 5th to Wilkes Relief Sewer - SW525 [ID: 2147]	Construction	1	2021	\$1,200,000	\$400,000	
2 Calvert Drive Sewer Relocation - SW252 [ID: 1698]	Proposed	3	2022	\$350,000	\$260,000	
3 Court and Hickory Street Sewer Relocation - SW505 [ID: 1890]	Final Design	3	2021	\$507,207		
4 FY 20 Sewer Rehabilitation [ID: 2172]	Preliminary Design	Citywide	2022	\$1,518,711	\$1,518,711	
5 FY 2019 Sewer Rehabilitation Project [ID: 2126]	Bid	Citywide	2021	\$3,166,000		
6 Hwy 63 Connector south of I-70 - SW516 [ID: 2041]	Preliminary Design	3	2021	\$265,000		
7 North Garth Sewer Replacement - SW511 [ID: 2018]	Construction	1	2021	\$165,000		
8 PCCE #18 - Spring Valley Road SW241 [ID: 1365]	Bid	4	2021	\$179,000		
9 PCCE #21 - Stanford - SW507 [ID: 1912]	Bid	4	2021	\$125,000		
10 PCCE #25 - Glenwood & Redbud - SW504 [ID: 1605]	Final Design	4	2021	\$377,200		
11 PCCE #27 - Grace Ellen - SW254 [ID: 1606]	Final Design	2	2022	\$300,000		
12 South Providence Sewer Replacement - SW526 [ID: 2099]	Final Design	5, 6	2022	\$245,000		
13 Tupelo-larch Sewer Replacement - SW513 [ID: 2043]	Final Design	1	2021	\$235,000		
13 Projects				\$8,633,118	\$2,178,711	\$0

<b>3-5 Years</b>						
1 PCCE #23 - Lakeshore Drive & Edgewood Ave - SW503 [ID: 1911]	Proposed	4	2023	\$225,000		
2 PCCE #28 - Hickory Hill Drive & Sunset Drive SW521 [ID: 1910]	Proposed	4	2023	\$350,000	\$315,000	
3 PCCE #29 - East Sunset Lane - SW522 [ID: 1909]	Proposed	4	2023	\$275,000	\$275,000	
4 PCCE #30 - W Stewart, Edgewood, Westmount - SW519 [ID: 1908]	Proposed	4	2024	\$400,000	\$340,000	
5 PCCE #31 - Oakwood Court [ID: 1907]	Proposed	4	2024	\$150,000	\$150,000	
6 PCCE #33 - Lyon Street - SW523 [ID: 1906]	Proposed	1	2025	\$95,000	\$95,000	\$95,000
7 PCCE #34 - Forest Hill Court & Ridge Road [ID: 1905]	Proposed	4	2025	\$375,000	\$375,000	
8 PCCE #35 - Richmond Avenue [ID: 1904]	Proposed	1	2024	\$155,000	\$155,000	
9 WWTP I&I Storage [ID: 2045]	Proposed	4	2025	\$15,000,000	\$15,000,000	\$15,000,000
10 WWTP Mechanical Screens Wetland Pump Station SW520 [ID: 2048]	Proposed	4	2023	\$2,000,000	\$1,800,000	

## Sanitary Sewer CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>6-10 Years</b>						
10 Projects				\$19,025,000	\$18,505,000	\$15,095,000
<b>6-10 Years</b>						
1 B-8 Relief Sewer - Rangeline & Vandiver [ID: 794]	Proposed	1, 2, 3	2028	\$2,250,000	\$2,250,000	
2 B-9 Relief Sewer - Garth & Vandiver [ID: 795]	Proposed	2	2030	\$750,000	\$750,000	
3 FBRS - 4th Street - Elm to Rogers/Broadway -SW258 [ID: 1864]	Proposed	1	2026	\$4,400,000	\$4,400,000	\$4,400,000
4 Lower Southwest Outfall Relief Sewer - SW261 [ID: 798]	Proposed	4	2027	\$825,000	\$825,000	\$825,000
5 Mill Creek Trunk Sewer [ID: 2046]	Proposed	6	2030	\$6,000,000	\$6,000,000	\$6,000,000
6 PCCE #38 - North Eighth Street [ID: 1903]	Proposed	1	2026	\$165,000	\$165,000	
7 PCCE #40 - Sunset Dr, Prospect St, Crestland Ave [ID: 1902]	Proposed	4	2026	\$510,000	\$510,000	
8 PCCE #41 - W Stewart Road & West Blvd [ID: 1901]	Proposed	4	2026	\$195,000	\$195,000	
9 Sewer District #171 - Crites Lane - SW263 [ID: 1361]	Proposed	3	2027	\$83,388	\$72,438	\$72,438
10 Sewer District - Hillcreek Road [ID: 1370]	Proposed	5	2030	\$511,163	\$511,163	\$511,163
11 Upper Bear Creek Sewer Replacement [ID: 1529]	Proposed	3	2027	\$610,000	\$610,000	
12 Upper Southwest Outfall Relief [ID: 800]	Proposed	1	2026	\$400,000	\$400,000	
13 WWTP New Digester Addition [ID: 2049]	Proposed	4	2028	\$13,000,000	\$13,000,000	\$13,000,000
13 Projects				\$29,699,551	\$29,688,601	\$24,808,601
<b>10 Plus Years</b>						
1 Cow Branch Outfall [ID: 725]	Proposed	Outside City	2031	\$3,800,000	\$3,800,000	\$3,800,000
2 Hominy Branch Outfall Ext:LOW Rd-Mxco Grvl [ID: 727]	Proposed	Outside City	2032	\$2,750,000	\$2,750,000	\$2,750,000
3 Nelson Creek Outfall [ID: 2039]	Proposed	3	2031	\$5,000,000	\$5,000,000	\$5,000,000
4 Rocky Fork Outfall Sewer [ID: 733]	Proposed	Outside City	2032	\$8,913,500	\$8,913,500	\$8,913,500
4 Projects				\$20,463,500	\$20,463,500	\$20,463,500
<b>54 Total Projects</b>				<b>\$105,699,051</b>	<b>\$102,475,812</b>	<b>\$61,487,101</b>

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## **Solid Waste Utility Capital Projects**

### **Planning**

The multi-year Capital Improvement Plan (CIP) budget is updated annually. Collections, Recovery and Disposal functions of the utility require facility expansions periodically to account for collections, administrative, material recovery and disposal space needs as well as regulatory compliance requirements. Evaluation for CIP needs is influenced by the quantity of material collected for disposal and recovery, the volume of space available for disposal, and the age/condition of existing facilities.

The Solid Waste Management Master Visioning Plan was developed in summer 2008 to outline a direction for the future. The plan was updated in 2011, 2018 and again in 2019. The visioning plan includes types of collection, equipment, landfill and material recovery programs. A cost of service study was conducted in 2014-2015 to determine rates required to sustain and expand the utility as the City grows and industry standards and regulations evolve. A new cost of service study is planned for 2020-2021.

Bioreactor Landfill Cell #6 was completed in December of 2018 and is the last disposal cell that can be constructed within the permitted airspace. The existing permitted landfill disposal area is anticipated to reach capacity between 2026 and 2031. A Landfill Site Master Plan has been completed and was adopted by the Council in April 2018. This master plan identifies how the City's Landfill property can be utilized for future disposal purposes. In October 2018, the utility began the multi-year regulatory process of permitting additional landfill space on the current Columbia Landfill property..

The utility plans to propose additional recycling drop off sites, in an effort to keep pace with the growing use of existing sites. Additionally, a comprehensive evaluation of the utilities' recycling and waste diversion programs is planned for 2021-2022.

Due to substantial growth in Solid Waste operations over the past 45 years, the Administration and Collections staff and equipment was relocated to the Landfill in 2017, with the continued expansion of the facilities to better meet the demands of the utility.

### **Funding**

Funding is primarily derived from enterprise revenue. In addition, since the early 1990's the City has taken advantage of available grant funding to expand recovery efforts (recycling, composting, waste minimization).

## Solid Waste CIP Projects

	Project Name	Status	Ward	Begin Construc- tion	Total Appro- priated	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Annual</b>							
1	Annual Landfill Gas Recovery Project - RF031 [ID: 883]	On-going	3	2014	\$1,695,947	\$800,000	
	1 Projects				\$1,695,947	\$800,000	\$0
	Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>							
1	912 E Walnut (SW Collection Site) RF068 [ID: 2110]	Final Design	1	2020	\$690,000		
2	Bioreactor Landfill Cell #6 - RF059 [ID: 1522]	Ready to Close	3	2017	\$5,870,155		
3	CID Special Project - RF067 [ID: 2055]	Preliminary Design	1	2020	\$125,000		
4	Landfill Expansion Permitting - RF061 [ID: 1585]	Construction	3	2020	\$2,373,736		
5	Landfill Fuel Station Pump Addition - RF060 [ID: 1995]	Bid	3	2020	\$120,000		
6	LF Station Facility Improvements Phs2 - RF062 [ID: 2034]	Bid	3	2020	\$450,000		
	6 Projects				\$9,628,891	\$0	\$0
<b>1-2 Years</b>							
1	Landfill Gate Improvements - RF066 [ID: 2054]	Preliminary Design	3	2021	\$140,000		
2	LF Operations Center Building Improvements - RF063 [ID: 2036]	Proposed	3	2022	\$200,000		
3	Material Recovery Facility Phase 1 - RF055 [ID: 884]	Proposed	3	2021	\$400,000		
4	North Route B Recycling Drop-Off Site - RF072 [ID: 2092]	Proposed	3	2022	\$150,000		
5	Small Vehicle Drop-Off Facility - RF070 [ID: 2093]	Proposed	3	2022	\$330,000		
6	SW Recycling Drop-Off Site - RF071 [ID: 2091]	Proposed	4	2021	\$150,000		
7	Vehicle Storage Shelters - RF064 [ID: 2035]	Proposed	3	2021	\$850,000		
8	Vehicle Wash Bay - RF065 [ID: 2033]	Proposed	3	2021	\$1,200,000		
	8 Projects				\$3,420,000	\$0	\$0
<b>3-5 Years</b>							
1	Household Hazardous Waste Collectin Facility RF069 [ID: 882]	Proposed	3	2024	\$550,000	\$200,000	
2	Landfill Heavy Equipment Storage Shelter - RF075 [ID: 2096]	Proposed	3	2023	\$500,000	\$450,000	
3	Landfill Scale House Relocation & Road Improvement [ID: 2095]	Proposed	3	2023	\$2,500,000	\$2,500,000	
	3 Projects				\$3,550,000	\$3,150,000	\$0
<b>6-10 Years</b>							
1	Bioreactor Landfill Cell #7 - RF073 [ID: 1944]	Proposed	3	2027	\$11,000,000	\$7,000,000	
2	Material Recovery Facility Expansion Phs 2 - RF074 [ID: 1551]	Proposed	3	2026	\$11,150,000	\$10,850,000	
	2 Projects				\$22,150,000	\$17,850,000	\$0
<b>20 Total Projects</b>					<b>\$40,444,838</b>	<b>\$21,800,000</b>	<b>\$0</b>



## **Storm Water Utility Capital Projects**

### **Planning**

The Capital Improvement Plan (CIP) Budget is updated annually. The CIP is a plan for the reconstruction, replacement and upgrade of existing infrastructure to address flooding and failing stormwater conveyance facilities. As part of preparing the CIP, stormwater systems are evaluated for adequacy and replacement requirements. Staff develops recommendations for the CIP based on review of citizen's complaints and consultation with operations staff. These recommendations then go through a review process that includes the Director of City Utilities, the City Manager, and finally the Columbia City Council.

Various tools are utilized to make recommendations outlined in the annual CIP. These include review of communications with citizens, and analysis of needs for upgrading smaller size infrastructure and/or replacing older pipes due to a history of storm water problems or deterioration of the facilities. CIP projects are prioritized based on their flooding impact and associated risk and safety of life and property including the erosive impact to structures and infrastructure.

### **Funding**

Funding for the storm water CIP program is by enterprise revenue approved by voters in 1991.

In 2008, the CH2M Hill completed an engineering study of the City's Storm Water Utility and CIP program. In 2011, ERC Inc., completed a cost of service study recommending a rate structure and business plan to address revenue needs. In 2014, a cost of service study was conducted to determine rates required to sustain and expand the division as the city grows and industry standards and regulations evolve.

A ballot issue was approved by voters in the April 2015 election. The approval of the ballot issue allows the Storm Water Utility rates to be increased over a five year period. The first incremental increase was approved with the FY2016 budget, the final incremental increase will be approved with the FY2020 budget. These increases provide additional funding to increase maintenance and replacement of existing stormwater infrastructure and allows for completion of some projects currently identified in the CIP.

In 2018 the City Council adopted the Integrated Management Plan (IMP) for the Sewer and Storm Water Utilities. The goal of the IMP is to develop an adaptable and affordable long-term plan that addresses the City's wastewater and stormwater management needs and meets Clean Water Act requirements. Storm Water Utility staff will begin the implementation of the recommendations presented in the IMP and utilize these recommendations to inform future Storm Water Utility CIP budgets. Implementation of the IMP will include future ballot issues to achieve voter approved rate increases. All future issues will be presented to Council for approval separately from the annual budget process.

## Storm Water CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Appro- priated	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Annual</b>						
1 Annual CAM Projects - SS114 [ID: 1611]	On-going	Citywide		\$60,169	\$270,000	
2 Annual Downtown Tree Planters - SS115 [ID: 1621]	On-going	1		\$75,054	\$225,000	
3 Annual Projects - SS017 [ID: 839]	On-going	Citywide		\$313,535	\$1,500,000	
4 Annual Property Acquisition - SS118 [ID: 1726]	On-going	Citywide		\$150,000	\$450,000	
4 Projects				\$598,759	\$2,445,000	\$0

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>Current</b>						
1 CAM - Forum Nature Area - SS113 [ID: 1811]	In Service	5	2014	\$50,000		
2 FY19 Storm Water Rehabilitation Project SS146 [ID: 2165]	Bid	Citywide	2020	\$235,400		
3 Mill Creek - 307 W Alhambra - SS136 [ID: 2008]	Preliminary Design	5	2020	\$200,000		
4 Ross Drainage - SS150 [ID: 2260]	Final Design	6	2020	\$200,000		
4 Projects				\$685,400	\$0	\$0

<b>1-2 Years</b>						
1 Aldeah & Ash Storm Pipe Rehab - SS123 [ID: 1868]	Final Design	1	2021	\$225,000		
2 Bray/Longwell Drainage - SS148 [ID: 818]	Proposed	4	2021	\$150,000		
3 Crestridge Drive Culvert Replacement - SS151 [ID: 2047]	Proposed	4	2022	\$125,000		
4 Garth @ Oak Tower SS110 [ID: 819]	Construction	1	2021	\$785,000		
5 Greenwood South - SS140 [ID: 1631]	Construction	4	2021	\$192,000		
6 Hickman & 6th & 7th - SS134 [ID: 1618]	Preliminary Design	1	2022	\$1,390,000		
7 Leslie Lane Storm water Improvements [ID: 2225]	Bid	2	2021	\$150,000		
8 Quail Drive - SS143 [ID: 821]	Final Design	3	2021	\$600,000		
8 Projects				\$3,617,000	\$0	\$0

<b>3-5 Years</b>						
1 Alan Lane - SS144 [ID: 870]	Proposed	3	2024	\$436,000	\$370,000	
2 Braemore Drainage [ID: 817]	Proposed	4	2024	\$300,000	\$300,000	
3 Calvert Drive - SS117 [ID: 1612]	Preliminary Design	3	2023	\$1,203,943	\$470,000	
4 Capri Estates Drainage - SS145 [ID: 828]	Proposed	2	2023	\$295,000	\$245,000	
5 Greenwood Stewart Phase 2 SS093 [ID: 1615]	Proposed	4	2025	\$1,600,000	\$1,600,000	
6 Nebraska Avenue [ID: 1616]	Proposed	1	2025	\$620,000	\$620,000	
7 Rockhill Rd - SS149 [ID: 873]	Proposed	6	2023	\$284,000		
8 Royal Lytham - Fallwood - SS090 [ID: 815]	Proposed	5	2025	\$422,537	\$400,000	
9 Seventh and Locust [ID: 1374]	Proposed	1	2024	\$320,000	\$320,000	
10 Sexton Road at Jackson [ID: 824]	Proposed	1	2024	\$345,000	\$345,000	
11 Sexton/McBaine Drainage [ID: 825]	Proposed	1	2024	\$280,000	\$280,000	
12 Vandiver/Sylvan Storm Drainage [ID: 826]	Proposed	3	2025	\$765,000	\$765,000	
13 Worley Again East Phase I [ID: 1629]	Proposed	1	2024	\$300,000	\$300,000	
13 Projects				\$7,171,480	\$6,015,000	\$0

<b>6-10 Years</b>						
1 Bourn Avenue [ID: 1623]	Proposed	4	2026	\$650,000	\$650,000	
2 Grasslands-Brandon Drainage [ID: 830]	Proposed	4	2029	\$1,100,000	\$1,100,000	
3 Hinkson Avenue [ID: 1206]	Proposed	3	2027	\$300,000	\$300,000	
4 Lakshire Estates Lake Modification [ID: 1622]	Proposed	3	2029	\$150,000	\$150,000	

## Storm Water CIP Projects

Project Name	Status	Ward	Begin Construc- tion	Total Project Cost	Funding Still Needed	Unfunded/ Future Ballot Amount
<b>6-10 Years</b>						
5 Mary Jane Jamesdale [ID: 1619]	Proposed	3	2030	\$150,000	\$150,000	
6 Mill Creek Phase 3 - SS111 [ID: 1620]	Proposed	5	2028	\$210,000	\$210,000	
7 Rollins/Cowan/Ridge Drainage [ID: 872]	Proposed	4	2028	\$170,000	\$170,000	
8 West Worley Storm System Replacement - SS119 [ID: 1882]	Proposed	1	2026	\$230,000	\$230,000	
8 Projects				\$2,960,000	\$2,960,000	\$0
<b>10 Plus Years</b>						
1 English/Subella/Jake Drainage [ID: 829]	Preliminary Design	4	2031	\$180,000	\$180,000	
2 Leawood Subdivision [ID: 1627]	Proposed	4	2031	\$1,775,000	\$1,775,000	
3 Mill Creek Detention Retrofits [ID: 1625]	Proposed	5	2034	\$300,000	\$300,000	
4 Parkade Blvd and Plaza [ID: 1630]	Proposed	1	2033	\$350,000	\$350,000	
5 Stewart Park Drainage [ID: 835]	Proposed	1	2031	\$100,000	\$100,000	
6 Woodland-Northridge Drainage [ID: 838]	Proposed	3	2031	\$400,000	\$400,000	
6 Projects				\$3,105,000	\$3,105,000	\$0
<b>43 Total Projects</b>				<b>\$18,137,639</b>	<b>\$14,525,000</b>	<b>\$0</b>