



# FY2023-2032 Capital Improvement Plan

February 1, 2022





# Agenda

---

- 1) Capital Improvement Plan (CIP) Overview
- 2) Capital Improvement Plan Projects
  - a) Arts
  - b) Airport
  - c) Transit
  - d) Parking Lots
  - e) Landfill
  - f) Solid Waste
  - g) Wastewater
  - h) Water
- 3) Council Feedback and Questions



# Budget Calendar

Item	Date
Workshop #1 – Budget Overview / Revenues / Five-Year Financial Forecasts	January 11, 2022
<i>Workshop #2 – FY23-32 Capital Improvement Plan</i>	<i>February 1, 2022</i>
Workshop #3 – FY23-32 Capital Improvement Plan	March 1, 2022
Workshop #4 – (All Day) FY23 Operating Budget Department Presentations	April 5, 2022
Workshop #5 – (All Day) FY23 Operating Budget Department Presentations	April 7, 2022
Workshop #6 – FY23 Final Budget Workshop	April 19, 2022
<b>Voting Meeting – Tentative Budget Adoption</b>	<b>May 10, 2022</b>
<b>Voting Meeting – Final Budget Adoption / Property Tax Levy</b>	<b>June 14, 2022</b>
<b>Voting Meeting – Property Tax Adoption</b>	<b>June 28, 2022</b>



# Elements of a Capital Improvement Plan

---

- Assets valued over \$50,000 with a useful life of 5+ years
- Land, buildings, streets & improvements, plants, large equipment
- Ten-Year Plan (only FY22-23 is adopted as part of the FY22-23 budget)

## Financial Policy:

- A. Improve existing assets
- B. Replace existing assets as needed
- C. Construct new assets



# CIP Funding Sources

- Enterprise Funds
  - Water/Sewer
    - Funding can come from G. O. Bonds, revenue bonds, revenue obligations or cash financing
    - Debt service paid from future water/sewer fee revenue
  - Landfill – paid by Landfill user fees
  - Solid Waste – paid by Solid Waste user fees
- Development Impact Fees
  - One-time charges to developers for new development
  - New or expanded infrastructure
- Grants
  - Federal or state grant funding
  - Often require a match contribution to the project



# CIP Funding Sources

---

- Pay-As-You-Go
  - Cash funded projects
- Transportation Sales Tax
  - Half cent sales tax
  - Improve service for all modes of transportation
- Highway User Revenue Funds
  - Restricted Special Revenue Fund
  - Right of Way acquisition, construction, reconstruction, maintenance, and repair
- General Obligation Bonds
  - Debt issuance must be authorized by Voters
  - Streets, Public Safety, Parks, Government Facilities, Open Space/Trails, Libraries, and Flood Control
  - Debt service paid by Secondary Property Tax



# FY23-32 Draft CIP Report

---

- Carryover
  - Does not include FY22 projects that do not have new appropriation in FY23 and beyond
  - FY22 projects with Carryover will be added to CIP in April before final budget workshop
- Arts, Airport, Transit, Parking Lots, Landfill, Solid Waste, Wastewater and Water programs presented today
- Drainage, Facility Maintenance, Parks, Public Safety, and Streets will be presented at the March 1, 2022 Workshop



# FY23-32 Arts Projects

PROJECT #	PROJECT NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
CIPAT23001	ARTS MASTER PLAN	100,000						100,000
<b>TOTAL</b>		<b>100,000</b>						<b>100,000</b>



# FY23-32 Arts by Funding Source

FUND	FUND NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2110	ART COMMISSION FUND	100,000						100,000
<b>TOTAL</b>		<b>100,000</b>						<b>100,000</b>



# Arts Master Plan

**Project Number: CIPAT23001**

**Description:**

Project is to develop an arts & culture master plan for Glendale through a comprehensive consultation and engagement process. The city will seek the services of an expert consultant/consulting firm through a request for qualifications (RFQ) process.

**Justification:**

To align with the City of Glendale's Balanced Scorecard objective of "Improve Community Experience," the goal of the master plan is to define a vision and a set of strategic directions and actions to help guide the development of arts and culture resources and activities in Glendale for the next 10 years. The plan will also provide a guide on how best to connect these resources to advance the city's overarching social and economic goals.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2110 – ARTS COMMISSION FUND	\$100,000						\$100,000



# FY23-32 Airport CIP Overview

- Funded by Airport Grant Funds (74%) and Transportation Sales Tax (26%)
- Focus on Pavement Maintenance
  - Runway, Taxiway, Apron, and Parking Lot
- Plans and Studies
  - Environmental Assessment for Channelization
  - Building Construction Study
  - Master Plan
  - Facilities Aesthetic Upgrade Study



# FY23-32 Airport Projects

PROJECT #	PROJECT NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
CIPAP19075	AIRPORT EA FOR CHANNELIZATION			360,000				360,000
CIPAP19076	SOUTH APRON PHASE 1 PAVEMENT RECONS	1,425,000						1,425,000
CIPAP20001	SOUTH APRON PHASE 2 REHABILITATION	2,375,000						2,375,000
CIPAP20002	RUNWAY REHABILITATION			4,085,000				4,085,000
CIPAP20004	AIRPORT PLANNING STUDY					315,000		315,000
CIPAP20018	TAXIWAY PAVEMENT REHAB & PRESERVE	300,000						300,000
CIPAP21005	AIRPORT BUILDING CONSTRUCTION STUDY					427,500		427,500
CIPAP21007	AIRPORT MASTER PLAN STUDY					620,945		620,945
CIPAP21009	AIRPORT SECURITY FENCING			675,000				675,000
CIPAP21010	SOUTHWEST APRON DESIGN / CONSTRUCT			450,000	4,835,500			5,285,500
CIPAP21012	AIRSIDE PAVEMENT MAINTENANCE	227,500	234,326	241,354	248,595	256,053	1,400,205	2,608,033
CIPAP22003	AIRPORT AUTO PARKING LOTS	604,500						604,500
CIPAP23045	INFRASTRUCTURE BILL FUNDING	295,000						295,000
CIPAP23046	FACILITIES AESTHETIC UPGRADE STUDY	200,000						200,000
CIPAP65078	AIRPORT MATCHING FUNDS	195,001	200,851	206,876	213,082	219,475	1,200,178	2,235,463
<b>TOTAL</b>		<b>5,622,001</b>	<b>435,177</b>	<b>6,018,230</b>	<b>5,297,177</b>	<b>1,838,973</b>	<b>2,600,383</b>	<b>21,811,941</b>



# FY23-32 Airport by Funding Source

FUND	FUND NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2190	AIRPORT CAPITAL GRANTS	4,395,000		5,570,000	4,835,500	1,363,445		16,163,945
4030	TRANSPORTATION SALES TAX	1,227,001	435,177	448,230	461,677	475,528	2,600,383	5,647,996
<b>TOTAL</b>		<b>5,622,001</b>	<b>435,177</b>	<b>6,018,230</b>	<b>5,297,177</b>	<b>1,838,973</b>	<b>2,600,383</b>	<b>21,811,941</b>



# Airport EA for Channelization

**Project Number: CIPAP19075**

**Description:**

Project to conduct an Environmental Assessment (EA) for channelization of New River. The ultimate project will create re-routed riverbank that will allow for the perimeter road and fence to be relocated to meet FAA runway protection zone and safety standards and enable engineered material arresting system and future runway configuration.

**Justification:**

This project will allow the airport to obtain additional land needed to meet Federal Aviation Administration design standards. Grant funding is to be leveraged for this project.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2190 – AIRPORT CAPITAL GRANTS			\$360,000				\$360,000



# South Apron Phase 1 Pavement Reconstruction

**Project Number: CIPAP19076**

**Description:**

Full reconstruction of South Apron pavement totaling approximately 38,000 square yards.

**Justification:**

Grant funding is to be leveraged for this project. In addition to FAA, this project is required under ADOT Grant Assurances and Airport Design Standards.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2190 – AIRPORT CAPITAL GRANTS	\$1,425,000						\$1,425,000



# South Apron Phase 2 Rehabilitation

**Project Number: CIPAP20001**

**Description:**

Project to rehabilitate south apron pavement by mill and overlay, totaling approximately 93,000 square yards, and relocate apron intersection. Relocation of the apron intersection will improve safety in airport operations by reducing potential aircraft conflicts.

**Justification:**

The relocation of the apron intersection is to comply with FAA design standards. In addition to FAA, this project is required under ADOT Grant Assurances and Airport Design Standards.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2190 – AIRPORT CAPITAL GRANTS	\$2,375,000						\$2,375,000



# Runway Rehabilitation

**Project Number: CIPAP20002**

**Description:**

Rehabilitation of the runway a pavement mill and overlay of approximately 80,000 square yards. Replacement of all runway and taxiway lighting and signage systems to aid in aircraft navigation.

**Justification:**

The Airport Pavement Maintenance Management Program indicates rehabilitation is necessary on the existing runway. Grant funding is to be leveraged for this project. This project is required under FAA and ADOT Grant Assurances and Airport Design Standards.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2190 – AIRPORT CAPITAL GRANTS			\$4,085,000				\$4,085,000



# Airport Planning Study

**Project Number: CIPAP20004**

**Description:**

Part 150 Airport Noise Compatibility Planning Update. This project will complete and update the Part 150 study that was completed in 1994.

**Justification:**

Updates need to coincide with master planning, forecasts, and Airport Layout Plan updates. No operational or maintenance costs are associated with this project. Grant funding will be leveraged.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2190 – AIRPORT CAPITAL GRANTS					\$315,000		\$315,000



# Taxiway Pavement Rehabilitation and Preservation

**Project Number: CIPAP20018**

**Description:**

Mill and overlay of existing Taxiway Alpha of approximately 47,224 square yards. Project includes reorientation of Taxiways A4 and A6, and addition of stabilized shoulders along Taxiway A.

**Justification:**

Outside funding is intended to be leveraged for this project. Project is required under FAA and ADOT Grant Assurances and Airport Design Standards.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2190 – AIRPORT CAPITAL GRANTS	\$300,000						\$300,000



# Airport Building Construction Study

**Project Number: CIPAP21005**

**Description:**

Conduct a site survey and site selection study for a new location for an Airport Traffic Control Tower (ATCT). Also, incorporate the preliminary design needs for a new ATCT facility. The relocation to a better spot is to address sight issues. The tower is also old and outdated in its current state.

**Justification:**

The Airport Master Plan calls for a new Airport Traffic Control Tower and this will be the preliminary planning and environmental study to begin the process. The project is required under FAA and ADOT grant Assurances and Airport Design Standards.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2190 – AIRPORT CAPITAL GRANTS					\$427,500		\$427,500



# Airport Master Plan Study

**Project Number: CIPAP21007**

**Description:**

Update to Airport Master Plan.

**Justification:**

Current Airport Master Plan was completed in 2007 and the Airport Layout Plan update was completed in 2017. This update will guide and enable east side development according to capacity needs.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2190 – AIRPORT CAPITAL GRANTS					\$620,945		\$620,945



# Airport Security Fencing

**Project Number: CIPAP21009**

**Description:**

Airfield Gate Improvements and Access Control System Upgrade. Project will upgrade all vehicle access gates and upgrade access control system.

**Justification:**

Project to improve and modernize airfield vehicle access gates and upgrade the access control system to include network communications and video surveillance. This project is identified in the Airport Master Plan and would improve safety.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2190 – AIRPORT CAPITAL GRANTS			\$675,000				\$675,000



# Southwest Apron Design/Construction

**Project Number: CIPAP21010**

**Description:**

This project is to design and construct a new southwest apron, taxi lane and access road to accommodate capacity needs at the airport.

**Justification:**

Design and construction of a new public apron, taxi lane, and infrastructure to accommodate expansion of aircraft storage to meet capacity needs. This project is required under FAA and ADOT Grant Assurances and Airport Design Standards.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2190 – AIRPORT CAPITAL GRANTS			\$450,000	\$4,835,500			\$5,285,500



# Airside Pavement Maintenance

**Project Number: CIPAP21012**

**Description:**

The proposed project is for the surface treatment of the northern portion of the center apron. It includes approximately 524,000 square feet of asphalt concrete aircraft apron pavement area and re-stripping of the treated area.

**Justification:**

The pavement was fully rehabilitated in 2014 but needs required pavement maintenance. The Airport's Pavement Maintenance Management Plan calls for surface treatment to be applied.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
4030 – TRANSPORTATION SALES TAX	\$227,500	\$234,326	\$241,354	\$248,595	\$256,053	\$1,400,205	\$2,608,033



# Airport Auto Parking Lots

**Project Number: CIPAP22003**

**Description:**

Rehabilitate the vehicle parking lots near the Terminal and FBO area. Approximately 10,000 SY.

**Justification:**

The parking lot surfaces are severely deteriorated and are a safety issue for vehicles and pedestrians.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
4030 – TRANSPORTATION SALES TAX	\$604,500						\$604,500



# Infrastructure Bill Funding

**Project Number: CIPAP23045**

**Description:**

First-year of federal Airport grant award under the infrastructure law in 2021. FAA indicated that these funds may be used for runways, taxiways, safety and sustainability projects, terminal development, airport-transit connections, and roadway projects.

**Justification:**

The Federal Aviation Administration (FAA) announced that the agency will award \$2.89 billion in grants to 3,075 airports across the country for the fiscal year 2022 with funds that have been made available under the Infrastructure Investment and Jobs Act (IIJA), which is being referred to as the Bipartisan Infrastructure Law (BIL).

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
4030 – TRANSPORTATION SALES TAX	\$295,000						\$295,000



# Facilities Aesthetic Upgrade Study

**Project Number: CIPAP23046**

**Description:**

This study will address infrastructure at the airport, including fencing, signage, landscaping, roadway improvements, the Terminal Building, and the FBO building. Improvements identified will be based on the Airport Design Standards under development now.

**Justification:**

This project is part of the Airport Strategic Plan and will identify improvements needed to City-owned facilities including the interior spaces.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
4030 – TRANSPORTATION SALES TAX	\$200,000						\$200,000



# Airport Matching Funds

**Project Number: CIPAP65078**

**Description:**

This request is to provide matching funds for Glendale Airport projects as identified in the Airport Capital Improvement Program (Fund 2190). Funding covers the local match for all airport capital costs.

**Justification:**

This request allows for projects identified in the Airport Capital Improvement Program to be completed with local match funding and leverage Federal and State funds.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
4030 – TRANSPORTATION SALES TAX	\$195,001	\$200,851	\$206,876	\$213,082	\$219,475	\$1,200,178	\$2,235,463



# FY23-32 Transit CIP Overview

---

- Funded by Transportation Sales Tax (67%) and Transportation Grants (33%)
- Focus on Bus Stop Enhancements, Bus Fleet Replacement, and Transportation Program Planning



# FY23-32 Transit Projects

PROJECT #	PROJECT NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
CIPTR22069	BUS STOP ENHANCEMENTS	260,000	267,799	275,834	284,109	292,633	1,600,233	<b>2,980,608</b>
CIPTR22095	TRANSIT BUS FLEET REPLACEMENT	370,407		988,906	1,466,195			<b>2,825,508</b>
CIPTR65022	TRANSP. PROG. ENGR. CONSULTANT	270,000	275,000	275,000	280,000	280,000	1,445,000	<b>2,825,000</b>
<b>TOTAL</b>		<b>900,407</b>	<b>542,799</b>	<b>1,539,740</b>	<b>2,030,304</b>	<b>572,633</b>	<b>3,045,233</b>	<b>8,631,116</b>



# FY23-32 Transit by Funding Source

FUND	FUND NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2060	TRANSPORTATION GRANTS	370,407		988,906	1,466,195			2,825,508
4030	TRANSPORTATION CAPITAL PROJECTS	530,000	542,799	550,834	564,109	572,633	3,045,233	5,805,608
<b>TOTAL</b>		<b>900,407</b>	<b>542,799</b>	<b>1,539,740</b>	<b>2,030,304</b>	<b>572,633</b>	<b>3,045,233</b>	<b>8,631,116</b>



# Bus Stop Enhancements

**Project Number: CIPTR22069**

**Description:**

The Glendale Bus Stop Enhancement Project is a multi-year program that will improve the passenger experience at Glendale bus stops throughout the city. This project will also bring current non-ADA compliant stops into compliance. These improvements may include shelters, benches, trash cans, concrete pads, and other related ADA improvements.

**Justification:**

This set of projects is intended to enhance the safety, convenience, and function of bus stops in support of Glendale transit service operations and ridership, ensuring all stops are accessible and ADA compliant.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
4030 – TRANSPORTATION SALES TAX	\$260,000	\$267,799	\$275,834	\$284,109	\$292,633	\$1,600,233	\$2,980,608



# Transit Bus Fleet Replacement

**Project Number: CIPTR22095**

**Description:**

This project supports the Transit Fleet Replacement Plan. Our current plan is programmed out through 2035. Federal funding for these replacement buses are programmed in the Region’s Transportation Improvement Plan (TIP) based on our replacement plan. The matching funds for the federal funding are programmed in the Region’s Transit Life Cycle Program (TLCP), which is funded via Proposition 400.

**Justification:**

This program is part of the FTA’s 5307 Program, which funds local transit vehicles based on replacement and expansion schedules. The replacement of these vehicles also ensures public transit assets are kept in a “State of Good Repair” (SOGR), which ensures the safety of our passengers.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
2060 – TRANSPORTATION GRANTS	\$370,407		\$988,906	\$1,466,195			\$2,825,508



# Transportation Program Engineering Consultant

**Project Number: CIPTR65022**

**Description:**

Professional engineering for preparation of design concepts and administration of right-of-way purchase for roadway, bicycle, pedestrian and transit projects. This funding provides professional engineering recommendations on capital projects and operations and maintenance of completed projects.

**Justification:**

Consulting services are necessary for studies and other transportation related services.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
4030 – TRANSPORTATION SALES TAX	\$270,000	\$275,000	\$275,000	\$280,000	\$280,000	\$1,445,000	\$2,825,000



# FY23-32 Parking Lots Projects

PROJECT #	PROJECT NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
CIPPL19059	RENEW PARKING GARAGES/LOTS	200,000	200,000	200,000	200,000	200,000	1,000,000	2,000,000
<b>TOTAL</b>		<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>1,000,000</b>	<b>2,000,000</b>



# FY23-32 Parking Lots by Funding Source

FUND	FUND NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
1080	GENERAL FUND CAPITAL PROJECTS	200,000	200,000	200,000	200,000	200,000	1,000,000	2,000,000
<b>TOTAL</b>		<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>1,000,000</b>	<b>2,000,000</b>



# Renew Parking Garages / Lots

**Project Number: CIPPL19059**

**Description:**

Project is to repair existing parking garages & parking lots across the city. Business-critical building lots & garages are highest priority. FY23 funding for asphalt repair, crack seal & seal coating for lots at the Main Library & Adult Center.

**Justification:**

Programmatic repair/renewal of parking lots will reduce long term life cycle costs, reduce safety concerns, improve the city's brand/image and enable provision of service delivery to the community, aligning resources with the City's strategic priorities and the Building Asset Philosophy.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
1080 – GENERAL FUND CAPITAL PROJECTS	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000	\$2,000,000



# FY23-32 Landfill CIP Overview

- Funding Source: Enterprise – User Fee Revenues
- Focus On Programmed Vehicle Replacements
  - Follow industry standard replacement cycles
  - Forecasted using current pricing and adding 5% each year
- North Cell Landfill Project
  - Forecast based on Engineer's cost estimate adding 3% each year
  - North Cell Phased Construction
  - North Cell Liner Installation
  - Landfill Gas Extraction System
  - Stormwater Controls



# FY23-32 Landfill Projects

PROJECT #	PROJECT NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
CIPLF19019	LANDFILL COMPACTOR REPLACEMENT				1,768,000	1,874,000		3,642,000
CIPLF19024	BULLDOZER REPLACEMENTS AND REBUILDS	1,352,000				1,874,000	2,248,000	5,474,000
CIPLF19025	NORTH CELL LINER	225,000		3,771,000		280,000	4,659,000	8,935,000
CIPLF19090	LANDFILL MOTOR GRADER REPLACEMENT			665,000				665,000
CIPLF19091	LANDFILL SCRAPER REPLACEMENT		1,251,000	-				1,251,000
CIPLF21029	LANDFILL GPS SYSTEM EQUIPMENT	50,000	-	65,000				115,000
CIPLF21030	CLOSED LANDFILLS	265,000	75,000	79,500	84,300	90,000	540,000	1,133,800
CIPLF22005	MRF PROCESS LINE IMPROVEMENTS	555,000						555,000
CIPLF22006	SITE PAVING AND MARKINGS			229,600	-	-	283,600	513,200
CIPLF78503	LANDFILL CLOSURE SOUTH	500,000	125,000	150,000	159,000	169,000	640,000	1,743,000
CIPLF78505	LF NORTH CELL PHASED CONSTRUCTION	2,514,200	2,937,200		101,000	4,609,000		10,161,400



# FY23-32 Landfill Projects

PROJECT #	PROJECT NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
CIPLF78506	LANDFILL 4x4 REPLACEMENT TRUCKS	41,000			430,000			<b>471,000</b>
CIPLF78512	FUEL TANKER REPLACEMENT						273,000	<b>273,000</b>
CIPLF78514	SOLID WASTE INSPECTION TRUCKS	40,000					418,000	<b>458,000</b>
CIPLF78522	LANDFILL WATER PULL/TRUCK					211,000	1,420,000	<b>1,631,000</b>
CIPLF78532	AUXILIARY EQUIPMENT	550,000	475,000		40,000			<b>1,065,000</b>
CIPLF78534	STORMWATER CONTROLS	431,320	1,672,000	1,410,000	883,600	1,560,000		<b>5,956,920</b>
CIPLF78535	LANDFILL GAS EXTRACTION SYSTEM	1,010,000	87,000	280,000	310,000	280,000	280,000	<b>2,247,000</b>
<b>TOTAL</b>		<b>7,533,520</b>	<b>6,622,200</b>	<b>6,650,100</b>	<b>3,775,900</b>	<b>10,947,000</b>	<b>10,761,600</b>	<b>46,290,320</b>



# FY23-32 Landfill by Funding Source

FUND	FUND NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110	LANDFILL FUND	7,533,520	6,622,200	6,650,100	3,775,900	10,947,000	10,761,600	46,290,320
<b>TOTAL</b>		<b>7,533,520</b>	<b>6,622,200</b>	<b>6,650,100</b>	<b>3,775,900</b>	<b>10,947,000</b>	<b>10,761,600</b>	<b>46,290,320</b>



# Landfill Compactor Replacement

**Project Number: CIPLF19019**

**Description:**

This project provides funding for the rebuild and replacement of the two landfill compactors. Compactors will be replaced or rebuilt on a five year 10,000-hour schedule. Updated costs include current quotes and inflation.

**Justification:**

Compactors are used daily for proper placement & compaction of solid waste & to optimize cover materials. Compactors with GPS systems, maximizes landfill compaction, improves safety, manages airspace & provides compliance.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND				\$1,768,000	\$1,874,000		\$3,642,000



# Bulldozer Replacements and Rebuilds

**Project Number: CIPLF19024**

**Description:**

Rebuild and/or replacement of the three landfill bulldozers. Replacement Plan: D-8 in FY23; the D-6 is scheduled for a complete undercarriage rebuild in the same year. Replacement of D9 in FY27 and the D6 & D8 dozers in FY28-32.

**Justification:**

The landfill has 3 bulldozers, they are used for a multitude of necessary landfill applications and establishing various haul roads for accessibility. Bulldozers maximize landfill operation efficiency and to meet regulatory permit requirements.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$1,352,000				\$1,874,000	\$2,248,000	\$5,474,000



# North Cell Liner

**Project Number: CIPLF19025**

**Description:**

Project is for design & construction of the liner for North Cell at the Landfill in accordance with our ADEQ approved permit & design plan. Funding moved from FY26 to FY25 to provide for operational needs and flexibility and increased based upon phase 1 construction costs.

**Justification:**

This liner provides a protective barrier to prevent potential groundwater contamination and is a permit requirement with the Arizona Department of Environmental Quality.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$225,000		\$3,771,000		\$280,000	\$4,659,000	\$8,935,000



# Landfill Motor Grader Replacement

**Project Number: CIPLF19090**

**Description:**

This project is for the replacement of the motor grader that is expected to reach the end of its serviceable life in FY 2025. The motor grader is used daily as the landfill is continually expanding and roads need continuous ongoing maintenance.

**Justification:**

The motor grader is the primary asset used to create/maintain temporary roads on the active portion of the LF. It is crucial the LF roadways are maintained for heavy equipment & customer vehicles to allow safe access throughout landfill.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND			\$665,000				\$665,000



# Landfill Scraper Replacement

**Project Number: CIPLF19091**

**Description:**

This project provides for the rebuild and or replacement of the landfill scraper. A replacement is scheduled in FY24 based on usage and estimated life of the scraper, which is evaluated annually.

**Justification:**

The scraper is an essential piece of support equipment that excavates, transports, and stockpiles soil used for covering waste disposed of at the landfill. The scraper effectively enables the City to meet the regulatory requirements of its permit.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND		\$1,251,000					\$1,251,000



# Landfill GPS System Equipment

**Project Number: CIPLF21029**

**Description:**

GPS systems are utilized on the landfill equipment to assist the operators in developing the landfill per engineering designs and ADEQ approved plans. The units are currently installed in two (2) compactors and the D6 dozer.

**Justification:**

The GPS equipment is critical for managing airspace efficiencies, building access roads, and operator safety.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$50,000		\$65,000				\$115,000



# Closed Landfills

**Project Number: CIPLF21030**

**Description:**

This project funds closed landfills that require ongoing maintenance including; grading, drainage, fencing, landscaping, and gas mgmt. Part of this funding is for work at the closed landfill site located at 103rd Ave. and the Butler Dr. alignment.

**Justification:**

Closed landfills may require maintenance from time to time. Improvements can include grading, drainage, fencing, landscaping, and gas management.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$265,000	\$75,000	\$79,500	\$84,300	\$90,000	\$540,000	\$1,113,800



# MRF Process Line Improvements

**Project Number: CIPLF22005**

**Description:**

The Materials Recovery Facility opened in 2000. The facility has many moving components that have worn over the years. The system needs major renovations/upgrades in order to process incoming materials.

**Justification:**

In FY23, installation of a metering drum will feed the system with a more consistent flow of material creating a better separation rate for sorters. FY23-installation of an optical sorter will improve overall capture rate for different plastics.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$555,000						\$555,000



# Site Paving and Markings

**Project Number: CIPLF22006**

**Description:**

This project funds the Landfill site paving and markings required as a result of repairs to paved surfaces.

**Justification:**

The Transportation Department recommends paved surfaces be maintained on a prescribed schedule. The entrance and roads should be repaired by performing a micro-seal approximately every 7 years.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND			\$229,600			\$283,600	\$513,200



# Landfill Closure South

**Project Number: CIPLF78503**

**Description:**

Project provides for closure of the south area of the landfill (LF) as its permitted air space nears capacity. Closure of the south area will be ongoing as the north cell is developed.

**Justification:**

Required by landfill operating permit w/a final cover system to include: a vegetative layer/compacted soil layer/gas wells & storm water control. Annual slope stability/stormwater retention/erosion control are required to maintain regulatory compliance.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$500,000	\$125,000	\$150,000	\$159,000	\$169,000	\$640,000	\$1,743,000



# Landfill North Cell Phased Construction

**Project Number: CIPLF78505**

**Description:**

This project is for soil excavation and stockpiling for the North Cell phased construction at the Glendale Municipal Landfill (LF) in accordance with the ADEQ permit and approved design.

**Justification:**

Activity includes stockpiling dirt as required for construction of the North Cell and operation of the South Cell, haul roads, and embankments until final closure, mandated per regulatory agency requirements for continued development of the Landfill.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$2,514,200	\$2,937,200		\$101,000	\$4,609,000		\$10,161,400



# Landfill 4x4 Replacement Trucks

**Project Number: CIPLF78506**

**Description:**

Funding for replacement of trucks used by landfill staff to monitor ops & perform regulatory inspections; to include: FY23-(1) field truck; FY26-(5) trucks total, incl. 3 Field Sup vehicles, 1 mechanic service truck, and 1 flat bed with tommy lift.

**Justification:**

Trucks are critical to transport staff to locations throughout the LF to ensure operations and regulatory compliance is met. Conditions of the landfill require the truck fleet to be replaced at approximately seven to ten years.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$41,000			\$430,000			\$471,000



# Fuel Tanker Replacement

**Project Number: CIPLF78512**

**Description:**

This project will fund the replacement of the landfill fuel tanker truck. This unit was replaced in 2021 and will be evaluated for replacement in 2031.

**Justification:**

The fuel tanker assists in maximizing operational efficiencies and reducing downtime by having a mobile source for refueling on site for large heavy equipment.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND						\$273,000	\$273,000



# Solid Waste Inspection Trucks

**Project Number: CIPLF78514**

**Description:**

This funding provides for replacement of trucks in the Recycling Division. Currently, there are 7 half-ton extended cab pick-up trucks with lift gates in the SW Management fleet. Truck replacement plan: FY23-(1); FY28-32-(6).

**Justification:**

Trucks enable inspectors to provide quality control by education and mandated inspections of solid waste containers in accordance with city/state/county requirements in order to have a refuse variance of collection.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$40,000					\$418,000	\$458,000



# Landfill Water Pull/Truck

**Project Number: CIPLF78522**

**Description:**

This project funds the replacement of (1) secondary, 5,000-gallon water truck in FY27; and (1) large primary water pull in FY31.

**Justification:**

The primary water pull is a critical piece of support equipment for reducing dust and maintaining compliance with the existing air quality permit. Upgrading this water pull better prepares the operation for the north cell expansion.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND					\$211,000	\$1,420,000	\$1,631,000



# Auxiliary Equipment

**Project Number: CIPLF78532**

**Description:**

Funds replacement of LF aux equip including light towers, air compressors, skid steers, loaders, lube trailer & other units. FY23-soil screening plant, improve tarping system; FY24-vactor, trash pump, skid steer, litter control sleds; FY26- forklift.

**Justification:**

The identified equipment has met or exceeded its serviceable life or is not economical to rebuild. This equipment assists in maintaining critical functions required to maintain LF operations to meet regulatory permit requirements.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$550,000	\$475,000		\$40,000			\$1,065,000



# Stormwater Controls

**Project Number: CIPLF78534**

**Description:**

Project funds stormwater controls including berms, culvert down drains, & channels required on the LF footprint as per the approved plans and permits. FY24 design & construction of additional drainage basins to support storm water needs of north cell.

**Justification:**

Construction of stormwater controls is mandated by the landfill's regulatory permit with Arizona Department of Environmental Quality (ADEQ).

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$431,320	\$1,672,000	\$1,410,000	\$883,600	\$1,560,000		\$5,956,920



# Landfill Gas Extraction System

**Project Number: CIPLF78535**

**Description:**

Modifications to the Gas Extraction System includes vertical wellheads, new laterals and horizontal collectors. These items are required to collect landfill gas created from placement of trash.

**Justification:**

As waste is placed and buried it is critical for the LGES to be expanded and modified. These modifications and improvements to the LGES are required to capture the methane and meet the regulatory permit requirements for the landfill.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6110 – LANDFILL FUND	\$1,010,000	\$87,000	\$280,000	\$310,000	\$280,000	\$280,000	\$2,247,000



# FY23-32 Solid Waste CIP Overview

---

- Funding Source: Enterprise – User Fee Revenues
- Focus On Programed Vehicle Replacements
  - Follow industry standard replacement cycles
  - Forecasted using current pricing and adding 5% each year
- Software Process Improvement
  - Integrated GPS Routing System



# FY23-32 Solid Waste Projects

PROJECT #	PROJECT NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
CIPSW19026	SOLID WASTE PROCESS IMP. SOFTWARE	225,000	0	0	0	0	0	225,000
CIPSW19027	REPLACE STREET SWEEPERS	0	354,376	363,235	372,316	381,624	2,147,856	3,619,407
CIPSW78001	REPLACE ROLLOFF TRUCKS - COMMERCIAL	0	0	0	254,663	0	560,259	814,922
CIPSW78002	REPLACE FRONTLOAD TRUCKS-COMMERCIAL	401,346	411,380	413,500	868,110	911,516	2,165,723	5,171,575
CIPSW78003	REPLACE SIDELOAD TRUCKS-RESIDENTIAL	2,226,084	1,140,867	1,521,156	1,597,214	1,527,752	9,715,618	17,728,691
CIPSW78004	REP BULK TRASH EQUIP-RESIDENTIAL	1,538,322	862,919	750,360	909,816	669,706	5,574,351	10,305,474
CIPSW78005	REPLACE PICKUPS / SERVICE TRUCKS	39,701	125,058	120,500	45,656	137,939	320,982	789,836
CIPSW78009	ALLEY GATING	100,000	100,000	0	0	0	0	200,000
<b>TOTAL</b>		<b>4,530,453</b>	<b>2,994,600</b>	<b>3,168,751</b>	<b>4,047,775</b>	<b>3,628,537</b>	<b>20,484,789</b>	<b>38,854,905</b>



# FY23-32 Solid Waste by Funding Source

FUND	FUND NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6120	SOLID WASTE FUND	4,530,453	2,994,600	3,168,751	4,047,775	3,628,537	20,484,789	<b>38,854,905</b>
<b>TOTAL</b>		<b>4,530,453</b>	<b>2,994,600</b>	<b>3,168,751</b>	<b>4,047,775</b>	<b>3,628,537</b>	<b>20,484,789</b>	<b>38,854,905</b>



# Solid Waste Process Improvement Software

**Project Number: CIPSW19026**

**Description:**

A Solid Waste process system City or Vendor hosted improves routing efficiency & provides a comprehensive enterprise-level solution for SW operations. Included: system software, in-vehicle mobile devices, configuration/conversion/training & support.

**Justification:**

This project will be the driver for increasing operating efficiencies for a revenue generating enterprise. Funding in FY23 is for further implementation across all divisions. O&M in FY24 will be evaluated/determined after implementation.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6120 – SOLID WASTE FUND	\$225,000						\$225,000



# Replace Street Sweepers

**Project Number: CIPSW19027**

**Description:**

Programmatic replacement of large Solid Waste (SW) vehicles. SW has 6 street sweepers, each with a lifespan of 7 yrs. requiring replacement over next 10 yrs. Updated costs include current quotes and inflation. Replacement plan: FY24-(1), FY25-(1), FY26-(1), FY27-(1), FY28-32-(5). MAG Grant funds will be pursued.

**Justification:**

Mandated by State and Federal as part of PM10 nonattainment areas to improve air quality, reduce particulate emissions, and clear streets of road hazards/debris. Programmatic replacement of vehicles will reduce overall lifecycle costs.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6120 – SOLID WASTE FUND		\$354,376	\$363,235	\$372,316	\$381,624	\$2,147,856	\$3,619,407



# Replace Rolloff Trucks – Commercial

**Project Number: CIPSW78001**

**Description:**

Programmatic replacement of large Solid Waste (SW) vehicles to ensure the provision of essential services to the community. SW has 3 commercial roll-off trucks requiring replacement over next 10 yrs. Replacement plan: FY26-(1), FY28-32-(2).

**Justification:**

Collection/disposal of solid waste is required by city and county. Programmatic replacement of vehicles reduces overall lifecycle costs, protects public health/safety while aligning resources with the City's strategic priorities.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6120 – SOLID WASTE FUND				\$254,663		\$560,259	\$814,922



# Replace Frontload Trucks - Commercial

**Project Number: CIPSW78002**

**Description:**

Replacement of SW vehicles & equip. SW has 7 front load trucks with a lifespan of 7 yrs. & 1 front load bin delivery truck/trailer with lifespan of 10 yrs. requiring replacements over next 10 yrs. Plan: FY23-(1), FY24-(1), FY25-(1), FY26-(2), FY27-(2), FY28-32-(4).

**Justification:**

Collection/disposal of solid waste is required by County/City code. Ensures a safe & efficient operation for a revenue generating enterprise. Programmatic replacement of vehicles will reduce overall lifecycle costs.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6120 – SOLID WASTE FUND	\$401,346	\$411,380	\$413,500	\$868,110	\$911,516	\$2,165,723	\$5,171,575



# Replace Sideload Trucks - Residential

**Project Number: CIPSW78003**

**Description:**

Replacement of large Solid Waste (SW) vehicles. SW has 27 side load trucks with a lifespan of 6 yrs. requiring replacement over next 10 yrs. Plan: FY23-(6), FY24-(3), FY25 (4), FY26-(4), FY27-(4), FY28-32-(20).

**Justification:**

Collection/disposal of solid waste is required by State/City code. Programmatic replacement of vehicles reduces overall lifecycle costs, protects public health/safety while aligning resources with City’s strategic priorities.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6120 – SOLID WASTE FUND	\$2,226,084	\$1,140,867	\$1,521,156	\$1,597,214	\$1,527,752	\$9,715,618	\$17,728,691



# Replace Residential Bulk Trash Equipment

**Project Number: CIPSW78004**

**Description:**

Replace large SW vehicles/equipment; have 15 rear load trucks/8 tractors w/life of 8 yrs. req replacement over 10 yrs. Plan: FY23 (4)trucks/(1)tractor, FY24 (2)trucks/(1)tractor, FY25 (2)trucks, FY26 (2)trucks/(1)tractor, FY27 (1)truck/(2)tractors, FY28-32 (10)trucks/(5)tractors.

**Justification:**

Collection/disposal of solid waste is mandated by State/City code. Programmatic replacement reduces overall lifecycle costs, protect public health and safety while aligning resources with the City's strategic priorities.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6120 – SOLID WASTE FUND	\$1,538,322	\$862,919	\$750,360	\$909,816	\$669,706	\$5,574,351	\$10,305,474



# Replace Pickups / Service Trucks

**Project Number: CIPSW78005**

**Description:**

Provides for programmatic replacement of Solid Waste vehicles. SW has 10 trucks used to support daily operations and provide timely customer service to the community. Replacement plan: FY23-(1), FY24-(3), FY25-(1), FY26-(1), FY27-(2), FY28-32-(5).

**Justification:**

These trucks are support units that assist in maintaining the safe and efficient operation for a revenue generating enterprise.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6120 – SOLID WASTE FUND	\$39,701	\$125,058	\$120,500	\$45,656	\$137,939	\$320,982	\$789,836



# Alley Gating

**Project Number: CIPSW78009**

**Description:**

A program that manages health/safety issues including blocking of vehicular access & difficulty of enforcement due to illegal dumping in alleys. Includes residential garbage serv. relocations/blue stake gate location/gate installation/access key/code.

**Justification:**

Promotes/enhances quality of life for residents residing near or adjacent to alley ways, providing a safer & cleaner environment. Project includes pre-gated alley clean-up & citizen notification. O&M to be an ongoing supplemental as gates get older.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6120 – SOLID WASTE FUND	\$100,000	\$100,000					\$200,000



# FY23-32 Water Services CIP Overview

---

## Capital Improvement Plan Priorities:

- Provide continuous service with minimum unplanned disruptions
- Provide multiple water supply sources
- Replace and rehabilitate existing infrastructure
- Reduce emergency repair costs
- Meet all Federal and State regulations



# FY23-32 Wastewater CIP Overview

---

## Wastewater Major Projects FY23-27:

- Rehabilitate sewer lines, manholes and lift stations (\$36.4M)
- Rehabilitate West Area Water Reclamation Facility (\$19.7M)
- 91st Avenue Wastewater Treatment Plant (\$18.6M)

## Funding Sources:

- 6030 – Sewer Operating
- 6095 & 6101 – Sewer Development Impact Fee



# FY23-32 Wastewater Projects

PROJECT #	PROJECT NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
CIPWW19086	SEWER LINE - GLENDALE AT 91ST AVE		2,550,000					2,550,000
CIPWW19087	ARROWHEAD SEWER LINES - PHASE 2		1,800,000	4,500,000				6,300,000
CIPWW19088	ARROWHEAD SEWER LINES - PHASE 3				2,650,000	3,350,000		6,000,000
CIPWW21026	WEST AREA WRF IMPROVEMENTS 2026				1,800,000	1,800,000	10,200,000	13,800,000
CIPWW21027	ARROWHEAD WRF IMPROVEMENTS 2025			2,510,000	2,000,000	9,450,000		13,960,000
CIPWW21028	UNDERGROUND STORAGE FACILITY PERMIT	100,000						100,000
CIPWW22076	SEWER LINE - REHAB PROGRAM	2,300,000	2,150,000	2,720,000	1,050,000	1,050,000	10,490,000	19,760,000
CIPWW22077	LIFT STATION REHAB PROGRAM		1,100,000			1,400,000	2,000,000	4,500,000
CIPWW22078	SEWER LINE EXTENSION	160,000	160,000	160,000	160,000	160,000	320,000	1,120,000
CIPWW23010	ROOF REPLACEMENT – SEWER	20,200	40,400	10,100	60,600			131,300
CIPWW23012	SEWER DEVELOPMENT INFRASTRUCTURE	1,000,000						1,000,000



# FY23-32 Wastewater Projects

PROJECT #	PROJECT NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
CIPWW60016	WEST AREA WRF IMPROVEMENTS 2017	10,000,000	6,105,000					16,105,000
CIPWW63003	99TH AVE INTERCEPTOR LINE	481,000	71,000	3,291,000		1,310,000		5,153,000
CIPWW63010	91ST AVENUE WWTP IMPROVEMENTS	4,060,000	2,720,000	3,430,000	4,400,000	4,000,000	15,000,000	33,610,000
CIPWW63016	SEWER LINE - PHASE V	300,000						300,000
CIPWW63024	SEWER MANHOLE REHAB PROGRAM	470,000	480,000	480,000	480,000	530,000	3,000,000	5,440,000
CIPWW63030	LIFT STATION REHAB- 67TH AVE & ACDC	1,888,000						1,888,000
CIPWW63031	WASTEWATER CAPITAL EQUIPMENT	250,000	250,000	250,000	250,000	250,000	1,250,000	2,500,000
CIPWW63032	WASTEWATER COLLECTION IMPROVEMENTS	300,000	300,000	300,000	300,000	300,000	1,500,000	3,000,000
<b>TOTAL</b>		<b>21,329,200</b>	<b>17,726,400</b>	<b>17,651,100</b>	<b>13,150,600</b>	<b>23,600,000</b>	<b>43,760,000</b>	<b>137,217,300</b>



# FY23-32 Wastewater by Funding Source

FUND	FUND NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030	SEWER FUND	20,169,200	15,016,400	17,491,100	12,990,600	23,440,000	43,440,000	132,547,300
6095	2014 SEWER DIF	1,160,000	2,710,000	160,000	160,000	160,000	320,000	4,670,000
<b>TOTAL</b>		<b>21,329,200</b>	<b>17,726,400</b>	<b>17,651,100</b>	<b>13,150,600</b>	<b>23,600,000</b>	<b>43,760,000</b>	<b>137,217,300</b>



# Sewer Line – Glendale at 91<sup>st</sup> Avenue

**Project Number:** CIPWW19086

**Description:**

Assess, design and construct 24" sewer line improvements in Glendale Avenue at 91st Avenue.

**Justification:**

This project will provide additional sewer line capacity in the area along Glendale Avenue at 91st Avenue as new development occurs.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6095 – 2014 SEWER DIF		\$2,550,000					\$2,550,000



# Arrowhead Sewer Lines – Phase 2

**Project Number: CIPWW19087**

**Description:**

Replacement or rehabilitation of sewer lines in the Arrowhead Ranch area to improve sewer flow condition and reduce odor. Phase 2 includes the line in Union Hills from 67th Ave to 79th Ave.

**Justification:**

The sewer line and manholes that collect wastewater flow to the Arrowhead Water Reclamation Facility are over 30 years old. This is the only sewer line that conveys sewage to the ARWRF for treatment.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND		\$1,800,000	\$4,500,000				\$6,300,000



# Arrowhead Sewer Lines – Phase 3

**Project Number: CIPWW19088**

**Description:**

Replacement or rehabilitation of sewer lines in the Arrowhead Ranch area to improve sewer flow condition and reduce odor. Phase 3 includes the line in 67th Ave from Union Hills to Utopia.

**Justification:**

The sewer line and manholes that collect wastewater flow to the Arrowhead Water Reclamation Facility are over 30 years old. This is the only sewer line that conveys sewage to the ARWRF for treatment.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND				\$2,650,000	\$3,350,000		\$6,000,000



# West Area WRF Improvements 2026

**Project Number: CIPWW21026**

**Description:**

Assess, design and rehabilitate 24' force main from 99th Avenue to plant. Includes construction of Phase III improvements to plant process areas.

**Justification:**

West Area was built in 2000 and processes 2.7 billion gallons of wastewater annually. Several of the processes were replaced over the last several years. A condition assessment will be performed first on the components not rehabbed in 2017 project.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND				\$1,800,000	\$1,800,000	\$10,200,000	\$13,800,000



# Arrowhead WRF Improvements 2025

**Project Number: CIPWW21027**

**Description:**

Design and construct Effluent Reuse Distribution System (ERDS) structure, outlet valves, blowers, and other process rehabilitation and improvements.

**Justification:**

Arrowhead was built in 1985 and processes 1.5 billion gallons of wastewater annually. Several of the processes were replaced over the last three years. A condition assessment will be performed first on the components not rehabbed in 2017 project.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND			\$2,510,000	\$2,000,000	\$9,450,000		\$13,960,000



# Underground Storage Facility Permit

**Project Number: CIPWW21028**

**Description:**

Conduct required analysis to prepare application for Underground Storage Facility (USF) permit issued by the Arizona Department of Water Resources (ADWR).

**Justification:**

USF permit is required to store reclaimed effluent in the ground. The ADWR issues the permit. USF permit for West Area expires 2023. The USF permit for Arrowhead expires 2024. Permits must be renewed before the expiration date.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND	\$100,000						\$100,000



# Sewer Line Rehabilitation Program

**Project Number: CIPWW22076**

**Description:**

Program to rehabilitate or replace sewer lines in segments. Design and construct based on condition assessments. Includes rehab of phase VI, and phase VII.

**Justification:**

Reliably and safely convey sewage from residential and business through the sewer system. Project is needed to reduce risk of sewer line collapse and overflows in the system.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND	\$2,300,000	\$2,150,000	\$2,720,000	\$1,050,000	\$1,050,000	\$10,490,000	\$19,760,000



# Lift Station Rehabilitation Program

**Project Number: CIPWW22077**

**Description:**

Assess condition and rehabilitate lift stations and related force mains citywide.

**Justification:**

It is important to ensure the lift stations are in good operational conditions and meet safety requirements. Potential equipment failure would cause sewerage overflows.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND		\$1,100,000			\$1,400,000	\$2,000,000	\$4,500,000



# Sewer Line Extension

**Project Number: CIPWW22078**

**Description:**

Sewer line extension, oversizing, and other sewer facilities in the city to the east of 115th Avenue.

**Justification:**

Provide funding for oversizing and extension of sewer line. Funding included in 2019 Infrastructure Improvement Plan (IIP).

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6095 – 2014 SEWER DIF	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$320,000	\$1,120,000



# Roof Replacement - Sewer

**Project Number: CIPWW23010**

**Description:**

Replace roofs on wastewater facilities per Facilities assessment schedule dated 11/22/2021.

**Justification:**

Roof rehabilitation and replacement is needed to prevent damage to building infrastructure and contents.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND	\$20,200	\$40,400	\$10,100	\$60,600			\$131,300



# Sewer Development Infrastructure

**Project Number: CIPWW23012**

**Description:**

Infrastructure Improvement Plan (IIP) includes projects for sewer line extension, oversizing, and other infrastructure for increased capacity.

**Justification:**

Provide funding for oversizing and extension of sewer line for new development. Funding included in 2019 Infrastructure Improvement Plan (IIP).

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6095 – 2014 SEWER DIF	\$1,000,000						\$1,000,000



# West Area WRF Improvements 2017

**Project Number: CIPWW60016**

**Description:**

Study, design and construct improvements to process areas. The project has three phases. GMP 1: fine screens, ultraviolet (UV) system. GMP 2: raw sewage pump station, sedimentation basin and other plant improvements. GMP 2A: clarifiers.

**Justification:**

West Area was built in 2000 and processes 2.7 billion gallons of wastewater annually. Several of the processes were replaced over the last several years. A condition assessment will be performed first on the components not rehabbed in 2017 project.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND	\$10,000,000	\$6,105,000					\$16,105,000



# 99<sup>th</sup> Avenue Interceptor Line

**Project Number: CIPWW63003**

**Description:**

Assess and rehabilitate 99th Ave interceptor manholes and interior lining. Glendale's share of total cost is based on ownership of 71%. Epcor repays 21% of Glendale share for Sun City use.

**Justification:**

The 99th Avenue interceptor conveys sewerage from Glendale, Sun City, Peoria, and Phoenix to the 91st Ave WWTP. The interceptor is rehabilitated in phases based on condition assessments.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND	\$481,000	\$71,000	\$3,291,000		\$1,310,000		\$5,153,000



# 91<sup>st</sup> Avenue WWTP Improvements

**Project Number: CIPWW63010**

**Description:**

Improvements at the 91st Ave WWTP of which Glendale is part owner. Includes GL03 metering station rehabilitation with EPCOR sharing in the cost of this project. This is Glendale's 6.5% share of costs.

**Justification:**

Glendale is one of five partner-cities that own the 91st Avenue Wastewater Treatment Plant. Rehabilitation and improvements are on-going. Contribution is based on ownership equity and is mandatory. The City of Phoenix performs the work.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND	\$4,060,000	\$2,720,000	\$3,430,000	\$4,400,000	\$4,000,000	\$15,000,000	\$33,610,000



# Sewer Line – Phase 5

**Project Number: CIPWW63016**

**Description:**

Rehabilitate or replace sewer lines in phase V segments. Design and construct based on condition assessments.

**Justification:**

Reliably and safely convey sewage from residential and business through the sewer system. Project is needed to reduce risk of sewer line collapse and system overflows.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND	\$300,000						\$300,000



# Sewer Manhole Rehab Program

**Project Number: CIPWW63024**

**Description:**

Manhole rehabilitation throughout the city. Construction performed in phases.

**Justification:**

Manholes are in a very corrosive environment. It is important that sewage from residential homes and businesses can be reliably conveyed in sewer lines that have structural integrity. Rehabilitation reduces the risk of sewer line collapse.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND	\$470,000	\$480,000	\$480,000	\$480,000	\$530,000	\$3,000,000	\$5,440,000



# Lift Station Rehabilitation 67<sup>th</sup> Avenue and ACDC

**Project Number:** CIPWW63030

**Description:**

Assess condition and rehabilitate Lift Station #2 at 67th Avenue and the Arizona Canal Diversion Channel.

**Justification:**

It is important to ensure the lift stations are in good operational conditions and meet safety requirements. Potential equipment failure would cause system overflows.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND	\$1,888,000						\$1,888,000



# Wastewater Capital Equipment

**Project Number: CIPWW63031**

**Description:**

Replacement of capital equipment at wastewater facilities. Includes pumps, motors, PLC and VFD.

**Justification:**

As equipment at the wastewater treatment plants reach the end of service-life, it is replaced. It is critical to ensure City's treatment facilities are in good operational condition to meet demands and regulatory requirements.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000	\$2,500,000



# Wastewater Collections Improvements

**Project Number: CIPWW63032**

**Description:**

Study, design and construct improvements to wastewater collection system. Includes air relief valves, odor control, and force mains.

**Justification:**

As wastewater collection system equipment reaches the end of service-life, it is replaced. It is critical to ensure City's collection system is in good operational condition to meet demands and regulatory requirements.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6030 – SEWER FUND	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,500,000	\$3,000,000



# FY23-32 Water CIP Overview

---

## Water Major Projects FY23-27:

- Rehabilitate water treatment plants (\$35.7M)
- Rehabilitate water lines, valves and reservoirs (\$26.4M)
- Drill and equip groundwater wells (\$20.4M)
- Acquire White Mountain Apache Tribe water rights (\$7.0M)
- Rehabilitate groundwater wells (\$4.2M)

## Funding Sources:

- 6020 – Water Operating
- 6065 & 6071 – Water Development Impact Fee



# FY23-32 Water Projects

PROJECT #	PROJECT NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
CIPWA19018	WHITE MTN APACHE WATER RIGHTS		3,500,000	875,000	875,000	875,000	875,000	7,000,000
CIPWA19020	SCADA REPLACEMENT STUDY	500,000	800,000					1,300,000
CIPWA19021	STORAGE & RECOVERY WELLS REHAB		445,000	450,000	455,000	460,000	2,200,000	4,010,000
CIPWA19022	ZONE 3 WELLS & INTERCONNECTS	9,750,000	2,590,000	3,117,000	1,745,000	3,640,000	14,630,000	35,472,000
CIPWA21022	OASIS WTP - 2021 IMPROVEMENTS	423,700		2,100,000	3,070,000		16,500,000	22,093,700
CIPWA21023	PYRAMID PEAK - 2022 IMPROVEMENTS	2,400,000	700,000	2,000,000	2,000,000	3,000,000	23,000,000	33,100,000
CIPWA21024	CHOLLA WTP - 2023 IMPROVEMENTS	780,000	3,280,000	2,500,000	8,000,000	5,000,000	20,000,000	39,560,000
CIPWA21025	WATER LINE - PACK 2 REHAB	2,100,000						2,100,000
CIPWA21032	67TH AVE TRANS LINE IMPROVEMENTS	800,000						800,000
CIPWA22070	WATER VALVE REPLACEMENT - ARP	908,000	397,000	350,000	350,000	350,000	1,000,000	3,355,000
CIPWA22071	WATER LINE 59TH - GLENN TO NORTHERN			800,000	1,650,000			2,450,000
CIPWA22072	WATER LINE - CAMELBACK 51ST TO 59TH						5,000,000	5,000,000
CIPWA22079	WATER LINE BETHANY HM 43RD TO 51ST	1,330,000	2,140,000	960,000				4,430,000
CIPWA23009	ROOF REPLACEMENT – WATER	181,800	161,600	101,000	30,300			474,700



# FY23-32 Water Projects

PROJECT #	PROJECT NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
CIPWA23011	WATER DEVELOPMENT INFRASTRUCTURE	1,500,000	150,000	150,000	150,000	150,000	750,000	2,850,000
CIPWA60017	WATER & WASTEWATER SYSTEM MODELING	150,000	150,000	150,000	150,000	150,000		750,000
CIPWA60018	LABORATORY EQUIPMENT REPLACEMENT	180,000	100,000					280,000
CIPWA60019	VEHICLE REPLACEMENT	750,000	750,000	1,000,000	1,000,000	1,000,000	4,000,000	8,500,000
CIPWA61001	LARGE WATER VALVE REPLACEMENT PRGM	798,000	798,000	798,000	798,000	798,000	3,280,000	7,270,000
CIPWA61013	WATER LINE REHABILITATION PROGRAM	496,000	2,596,000	2,596,000	2,700,000	2,800,000	12,650,000	23,838,000
CIPWA61023	WATER SYSTEM SECURITY	150,000	150,000	150,000	150,000	150,000	350,000	1,100,000
CIPWA61045	THUNDERBIRD RESERVOIR	550,000	1,900,000	1,050,000				3,500,000
CIPWA61047	METER VAULT REPLACEMENT PROGRAM	736,000	212,000	736,000	515,000	515,000		2,714,000
CIPWA61048	GROUNDWATER WELL REHAB PROGRAM	1,470,000	1,270,000	500,000	500,000	500,000	5,000,000	9,240,000
CIPWA61049	DISTRIBUTION SYSTEM IMPROV ZONE 2&3	1,260,000	1,050,000					2,310,000
CIPWA61051	ACCRUE LONG-TERM WATER CREDITS	100,000	100,000					200,000
CIPWA61054	DISTRIBUTION SYSTEM IMPROV PROGRAM	500,000	500,000	500,000	500,000	500,000		2,500,000
CIPWA61061	WATER CAPITAL EQUIPMENT REPLACEMENT	500,000	500,000	500,000	500,000	500,000	2,500,000	5,000,000
CIPWA61062	TRANSMISSION LINE & VALVE ASSESSMNT	530,000	530,000	530,000	530,000	530,000		2,650,000
<b>TOTAL</b>		<b>28,843,500</b>	<b>24,769,600</b>	<b>21,913,000</b>	<b>25,668,300</b>	<b>20,918,000</b>	<b>111,735,000</b>	<b>233,847,400</b>



# FY23-32 Water by Funding Source

FUND	FUND NAME	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020	WATER FUND	22,376,500	21,119,600	20,888,000	22,898,300	19,893,000	110,110,000	<b>217,285,400</b>
6065	2014 WATER DIF	6,467,000	3,650,000	1,025,000	2,770,000	1,025,000	1,625,000	<b>16,562,000</b>
<b>TOTAL</b>		<b>28,843,500</b>	<b>24,769,600</b>	<b>21,913,000</b>	<b>25,668,300</b>	<b>20,918,000</b>	<b>111,735,000</b>	<b>233,847,400</b>



# White Mountain Apache Water Rights

**Project Number: CIPWA19018**

**Description:**

100-year lease of Central Arizona Project water rights per the White Mountain Apache Tribe settlement for allocation of 2,363 acre feet annually. Execution of the agreement is at the Federal approval process level.

**Justification:**

Council approved the lease settlement on February 24, 2009 and approved the amended and restated WMAT Water Quantification agreement on February 12, 2013. Additional water rights assures water is available for growth.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6065 – 2014 WATER DIF		\$3,500,000	\$875,000	\$875,000	\$875,000	\$875,000	\$7,000,000



# SCADA Replacement Study

**Project Number: CIPWA19020**

**Description:**

Study alternative information and communication systems to develop a plan to upgrade equipment of the Supervisory Control and Data Acquisition (SCADA) system to new technologies. New project will be added for equipment based on recommendations.

**Justification:**

SCADA controls the treatment processes within the plants and distribution systems. System components are at end of service life. New technologies will reduce risk of failure at critical measurement points and increase resiliency of the systems.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$500,000	\$800,000					\$1,300,000



# Storage & Recovery Wells Rehabilitation

**Project Number: CIPWA19021**

**Description:**

Rehabilitate four (4) Aquifer Storage and Recovery wells (two at the Arrowhead WRF & two at Oasis Lake) and eight (8) vadose zone recharge wells (six at the AWRF and two at Oasis Lake) on a 10-year cycle.

**Justification:**

Based on evaluation, need to rehabilitate one well every year to maintain the system's resiliency. These recharge wells need to recharge effluent to various groundwater levels to maximize groundwater storage credits.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND		\$445,000	\$450,000	\$455,000	\$460,000	\$2,200,000	\$4,010,000



# Zone 3 Wells & Interconnects

**Project Number: CIPWA19022**

**Description:**

Design and construct new direct-connect water source in Zone 3. First source is to interconnect potable water supply with adjacent cities. Second source is to drill new groundwater wells.

**Justification:**

Provide water supply redundancy from multiple sources at times of restricted supply is critical. Wells provide direct supply during drought management, plant shut-down, or transmission failure.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$4,783,000	\$2,590,000	\$3,117,000		\$3,640,000	\$14,630,000	\$28,760,000
6065 – 2014 WATER DIF	\$4,967,000			\$1,745,000			\$6,712,000
<b>TOTAL</b>	<b>\$9,750,000</b>	<b>\$2,590,000</b>	<b>\$3,117,000</b>	<b>\$1,745,000</b>	<b>\$3,640,000</b>	<b>\$14,630,000</b>	<b>\$35,472,000</b>



# Oasis WTP – 2021 Improvements

**Project Number: CIPWA21022**

**Description:**

Evaluate, design, and construct improvements to brine ponds, chlorine generator, IX plant conveyance, and other processes. FY2028-32 amount is placeholder for next assess & rehab cycle.

**Justification:**

Oasis WTP was built in 2007 and expanded in 2012. Oasis provides 1.7 billion gallons of water to the southern and western portions of Glendale. After a condition assessment, several systems are in need of rehabilitation.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$423,700		\$2,100,000	\$3,070,000		\$16,500,000	\$22,093,700



# Pyramid Peak – 2022 Improvements

**Project Number: CIPWA21023**

**Description:**

Study, design, and construct process improvements to gate valves, sedimentary basins, lagoon pumps, chlorine generator, and other systems. Peoria pays for 55.6% of costs. FY2028-32 amount is placeholder for next assess & rehab cycle.

**Justification:**

Pyramid is a critical water treatment plant for Glendale and Peoria. Rehabilitation reduces risk of equipment failure, loss of service to citizens, and implements new efficiencies.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$2,400,000	\$700,000	\$2,000,000	\$2,000,000	\$3,000,000	\$23,000,000	\$33,100,000



# Cholla WTP – 2023 Improvements

**Project Number: CIPWA21024**

**Description:**

Study, design, and construct process improvements to backwash pumps, centrifuge & solid handling, filters & floc drives, chlorine generator, and other systems. FY2028-32 amount is placeholder for next assess & rehab cycle.

**Justification:**

Cholla is a critical water treatment plant. This plant provides 4 billion gallons of water annually to the central portion of Glendale. Rehabilitation reduces risk of equipment failure, loss of service to citizens, and implements new efficiencies.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$780,000	\$3,280,000	\$2,500,000	\$8,000,000	\$5,000,000	\$20,000,000	\$39,560,000



# Water Line – Pack 2 Rehabilitation

**Project Number: CIPWA21025**

**Description:**

Design and construct waterline replacement. Work is performed in phases based on condition assessments. Includes segments in 54th Avenue, Maryland, Northern and Lamar.

**Justification:**

The average age of the water distribution system is over 35 years old. Rehabilitation or replacement is performed based on evaluation of the condition of the line segment to reduce risk of failure.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$2,100,000						\$2,100,000



# 67<sup>th</sup> Ave. Transmission Line Improvements

**Project Number:** CIPWA21032

**Description:**

Design and install access manholes to portals in the 67th Ave transmission line from PPWTP to Deer Valley Road. Project includes emergency repair parts and fittings.

**Justification:**

Need access from the street level to assess the condition of large transmission line interior.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$800,000						\$800,000



# Water Valve Replacement - ARP

**Project Number: CIPWA22070**

**Description:**

Replace large water valves ahead of Arterial (streets) Reconstruction Program (ARP). Nine arterial segments are identified.

**Justification:**

Street segments identified in Arterial Reconstruction Program due to low critical Pavement Condition Index (PCI) for replacement. Replace valves 9-12 months ahead of construction start.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$908,000	\$397,000	\$350,000	\$350,000	\$350,000	\$1,000,000	\$3,335,000



# Water Line 59<sup>th</sup> – Glenn to Northern

**Project Number: CIPWA22071**

**Description:**

Design and construct new water line and associated appurtenances. Includes 4,900'-water line, 48-valves, 16-service lines, and 5-fire hydrants in 59 Ave - Glenn to Northern Ave.

**Justification:**

Street segments identified in Arterial Reconstruction Program due to low critical Pavement Condition Index (PCI) for replacement. Replace water line and valves 9-12 months ahead of construction start.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND			\$800,000	\$1,650,000			\$2,450,000



# Water Line – Camelback – 51<sup>st</sup> to 59<sup>th</sup>

**Project Number:** CIPWA22072

**Description:**

Design and construct new water line and associated appurtenances in Camelback Road from 51st Ave to 59th Ave.

**Justification:**

Street segments identified in Arterial Reconstruction Program due to low critical Pavement Condition Index (PCI) for replacement. Replace water line and valves 9-12 months ahead of construction start.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND						\$5,000,000	\$5,000,000



# Water Line – Bethany Home – 43<sup>rd</sup> to 51<sup>st</sup>

**Project Number: CIPWA22079**

**Description:**

Design and construct new water line & associated appurtenances. Includes 6,100' water line, 81 valves, 38 service lines, 20-fire hydrants in Bethany Hm. Rd. 43rd to 300' west of 51st under Grand Ave.

**Justification:**

Street segments identified in Arterial Reconstruction Program due to low critical Pavement Condition Index (PCI) for replacement. Replace water line and valves 9-12 months ahead of construction start.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$1,330,000	\$2,140,000	\$960,000				\$4,430,000



# Roof Replacement – Water

**Project Number:** CIPWA23009

**Description:**

Replace roofs on water facilities per Facilities assessment schedule dated 11/22/2021.

**Justification:**

Roof rehabilitation and replacement is needed to prevent damage to building infrastructure and contents.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$181,800	\$161,600	\$101,100	\$30,300			\$474,700



# Water Development Infrastructure

**Project Number: CIPWA23011**

**Description:**

Infrastructure Improvement Plan (IIP) includes projects for water line extension and oversizing in the city to the east of 115th Avenue and acquisition of water supply rights.

**Justification:**

Provide funding for oversizing and extension of water line. Funding included in 2019 Infrastructure Improvement Plan (IIP).

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6065 – 2014 WATER DIF	\$1,500,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000	\$2,850,000



# Water & Wastewater Systems Modeling

**Project Number: CIPWA60017**

**Description:**

Update Integrated Master Plan to include the plans for water, sewer, reclaimed water, and stormwater systems. Perform ad hoc Water & Wastewater Systems modeling.

**Justification:**

This project provides needed planning and modeling to ensure necessary infrastructure is available, and water resources are available to meet anticipated demands to support future development.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000		\$750,000



# Laboratory Equipment Replacement

**Project Number: CIPWA60018**

**Description:**

Replace major water quality laboratory test equipment as each reaches the end of service-life.

**Justification:**

Critical laboratory test equipment is at the end of useful life. Maintenance is becoming costly versus replacement or using outside laboratory services. Water quality testing is mandatory to the treatment of water.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$180,000	\$100,000					\$280,000



# Vehicle Replacement

**Project Number: CIPWA60019**

**Description:**

Replacement of vehicles, heavy trucks, and excavation equipment. Replacement is based on service life, usage, condition, and cost to maintain.

**Justification:**

Mobility is critical to effectively and efficiently perform work required. The fleet is comprised of over 165 units for a cost to replace of more than \$10 million. Units range in value from \$50,000 to \$500,000 with service life of 10 to 20 years.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$750,000	\$750,000	\$1,000,000	\$1,000,000	\$1,000,000	\$4,000,000	\$8,500,000



# Large Water Valve Replacement Program

**Project Number: CIPWA61001**

**Description:**

Replace 6" to 18" water main valves, related water lines and fire hydrants to maintain the operational reliability of the City's water distribution and fire suppression systems. Depending on size and condition, 150 to 200 valves are replaced annually.

**Justification:**

Age of main valves vary, with many of them over 25 years old. Replacement is required along with any attached fire hydrants and service lines to reduce the risk of equipment failure.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$798,000	\$798,000	\$798,000	\$798,000	\$798,000	\$3,280,000	\$7,270,000



# Water Line Rehabilitation Program

**Project Number: CIPWA61013**

**Description:**

Design and construct waterline replacement. Work is performed in phases based on condition assessments. As segments are scheduled, budget will be separated into single project from this placeholder.

**Justification:**

The average age of the water distribution system is over 35 years old. Rehabilitation or replacement is performed based on evaluation of the condition of the line segment to reduce risk of failure.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$496,000	\$2,596,000	\$2,596,000	\$2,700,000	\$2,800,000	\$12,650,000	\$23,838,000



# Water System Security

**Project Number: CIPWA61023**

**Description:**

Replace video, communication, and perimeter equipment to enhance security of city's water supply, treatment plants and distribution systems.

**Justification:**

Replace cameras and equipment at Water Services facilities to further enhance security of City's water supply, treatment plants and distribution systems. Required to ensure the city complies with the federal homeland security requirements.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$350,000	\$1,100,000



# Thunderbird Reservoir

**Project Number: CIPWA61045**

**Description:**

Design and construct improvements to improve water quality and water delivery during peak demand and construct roof replacement.

**Justification:**

The 12-million gallon reservoir was constructed in 1985 and is essential to meet peak hourly water demand within the northern and central portion of Glendale.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$550,000	\$1,900,000	\$1,050,000				\$3,500,000



# Meter Vault Replacement Program

**Project Number: CIPWA61047**

**Description:**

Program to replace 204 large in-ground meter vaults. Work will be contracted in phases. Have completed 142 vaults. Cost varies with each vault upgrade.

**Justification:**

The program includes evaluation of each vault as to repair or replace to meet safety standards for confined space entry.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$736,000	\$212,000	\$736,000	\$515,000	\$515,000		\$2,714,000



# Groundwater Well Rehabilitation Program

**Project Number: CIPWA61048**

**Description:**

Assess operating components and water quality at sixteen groundwater wells. Rehab and replace well and components per assessment.

**Justification:**

Wells need rehabilitation every 5-10 years to maintain production and water quality levels and replacement at end of service-life. Rehabilitation reduces risk of equipment failure, loss of service, and decrease in water quality.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$1,470,000	\$1,270,000	\$500,000	\$500,000	\$500,000	\$5,000,000	\$9,240,000



# Distribution System Improvements Zone 2&3

**Project Number: CIPWA61049**

**Description:**

Make operating improvements between Zone 2 and Zone 3 water distribution system to increase service resiliency. Includes improvements to Hillcrest Ranch booster station (HRBS).

**Justification:**

This booster station was constructed in 1992 and is being upgraded to provide emergency water supply to northern portion of Glendale if there is an event of reduced production.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$1,260,000	\$1,050,000					\$2,310,000



# Accrue Long-Term Water Credits

**Project Number: CIPWA61051**

**Description:**

Using the Groundwater Saving Facilities, purchase Central Arizona Project water to store and accrue long-term water storage credits for use during supply shortages.

**Justification:**

Accrued long-term water storage credits (LTWC) can be recovered during a time of drought. LTWC adds to city's water portfolio needed for the ADWR 100-year Assured Water Supply designation. This program adds resiliency to the city water supply.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$100,000	\$100,000					\$200,000



# Distribution System Improvement Program

**Project Number: CIPWA61054**

**Description:**

Design and construct water distribution system improvements city-wide. Includes PRVs, water instrumentation, flow meters, sub-zone splitting.

**Justification:**

Pressure reducing valves (PRV) and process control systems have reached the end of useful life. It is very important to ensure the PRVs are functional to move water between different pressure zones to meet water demand and manage water pressure.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000		\$2,500,000



# Water Capital Equipment Replacement

**Project Number: CIPWA61061**

**Description:**

Replacement of capital equipment at water facilities. Includes Programmable Logic Controllers (PLC), Variable Frequency Drives (VFD), miscellaneous pumps and motors.

**Justification:**

As equipment at the water treatment plants reaches the end of service-life, it is replaced. It is critical to ensure City's water treatment facilities are in good operational condition to meet water demands and regulatory requirements.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000	\$5,000,000



# Transmission Line & Valve Replacement

**Project Number: CIPWA61062**

**Description:**

Assess condition of 48" and larger water transmission line and valves for future rehabilitation. The first assessment is for the 67th Ave line from the Pyramid Peak WTP.

**Justification:**

The 67th Ave transmission main was installed in 1987. This line conveys water from Pyramid Peak WTP to Glendale water customers in the northern portions of the City and the City of Peoria Turnout and needs the condition to be assessed.

FUND	FY23	FY24	FY25	FY26	FY27	FY28-32	TOTAL
6020 – WATER FUND	\$530,000	\$530,000	\$530,000	\$530,000	\$530,000		\$2,650,000



# Council Questions / Discussion

---



# Budget Calendar

Item	Date
Workshop #1 – Budget Overview / Revenues / Five-Year Financial Forecasts	January 11, 2022
Workshop #2 – FY23-32 Capital Improvement Plan	February 1, 2022
<i>Workshop #3 – FY23-32 Capital Improvement Plan</i>	<i>March 1, 2022</i>
Workshop #4 – (All Day) FY23 Operating Budget Department Presentations	April 5, 2022
Workshop #5 – (All Day) FY23 Operating Budget Department Presentations	April 7, 2022
Workshop #6 – FY23 Final Budget Workshop	April 19, 2022
<b>Voting Meeting – Tentative Budget Adoption</b>	<b>May 10, 2022</b>
<b>Voting Meeting – Final Budget Adoption / Property Tax Levy</b>	<b>June 14, 2022</b>
<b>Voting Meeting – Property Tax Adoption</b>	<b>June 28, 2022</b>