CAPITAL IMPROVEMENT PLAN

FY 2027-2031 CIP DISCUSSION DRAFT 1

CIP Delivery Team

Capital Planning Committee Meeting

October 21, 2025

Jody Caldwell, PE, Chief Planning Officer

Dima El-Gamal, PhD, PE, LEED@AP., Capital Improvement Planning Director

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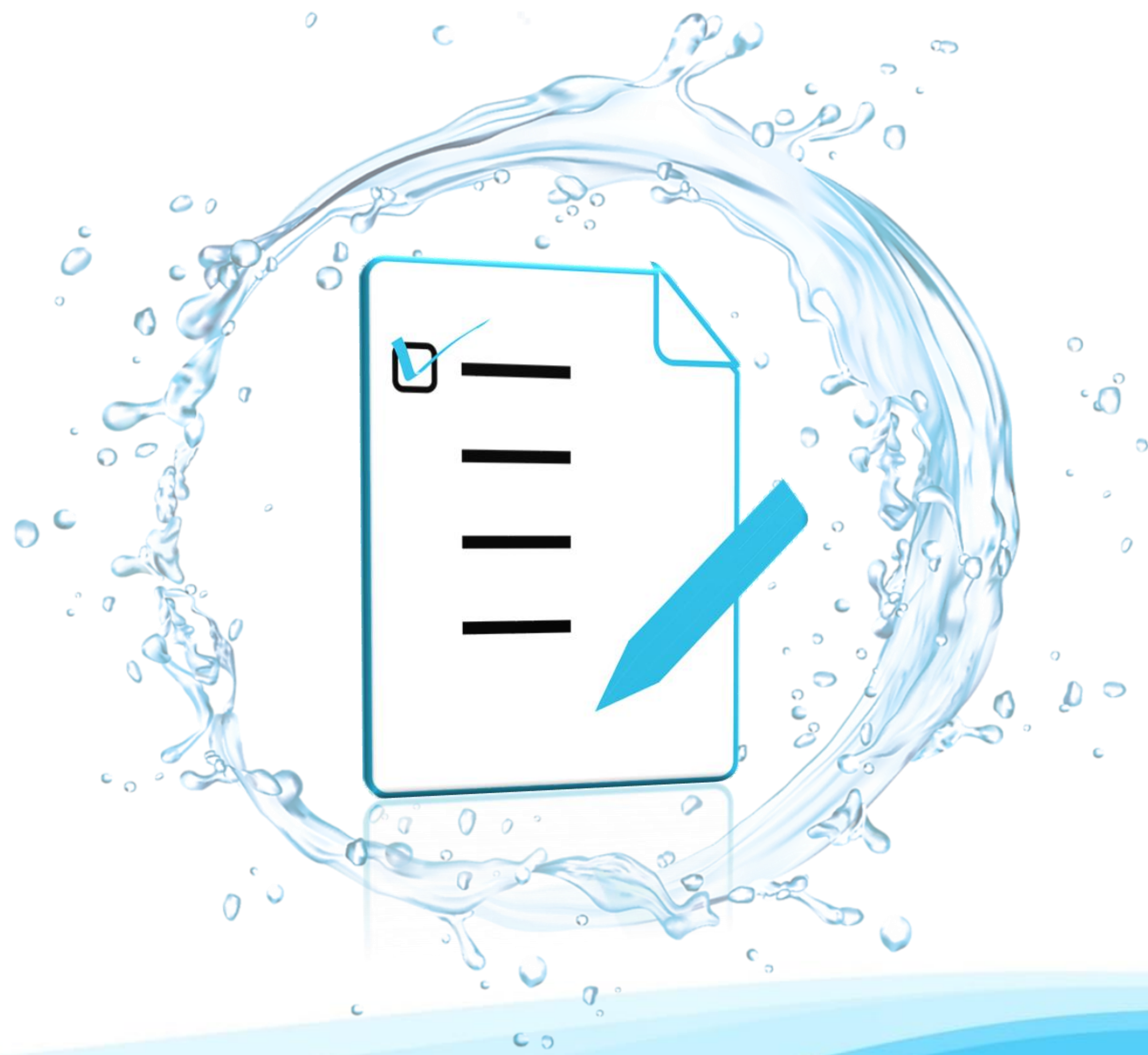
AGENDA

CIP Delivery Team

- **INTRODUCTION**
  - Key Takeaways
  - Goals and Objectives
- **HISTORICAL KPI's - UPDATED**
- **FY 2027-2031 CIP DISCUSSION DRAFT 1**
  - How We Got Here
  - FY 27-31 CIP At A Glance
  - Opportunities and Challenges
  - Water and Wastewater Details
- **FY 2027-2031 CIP PUBLIC DASHBOARD**
- **RECAP AND NEXT STEPS**



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KPI – Key Performance Indicator | **FY** – Fiscal Year | **CIP** – Capital Improvement Plan

INTRODUCTION

CIP Delivery Team

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KEY TAKEAWAYS - FY 2027-2031 CIP Discussion Draft 1

CIP Delivery Team

- FY 27-31 Discussion Draft #1 is complete
- Approach unchanged and is consistent with established methodologies
- Forecasts overall Wastewater Systems needs and Water System needs, excluding any additions on the water side for the recently discussed Comprehensive Transmission Main Renewal Strategy
- Scope and schedule decisions influenced by funding availability, systems needs, constructability, and market conditions
- In consideration of GLWA's 10-year FP, a Capital Spend Ratio (CSR) is proposed for select years to address:
  - Project's complexities
  - Projections uncertainty
  - Resource limitations (Vendors and GLWA)
- Comments and questions, if any, are due **November 7, 2025.**
- Board members interested in one-on-one discussions and further clarification, please feel free to contact Director El-Gamal at Dima.El-Gamal@glwater.org to schedule individual meetings.

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CIP – Capital Improvement Plan | **FP** – Financial Plan | **CSR** – Capital Spend Ratio | **FY** – Fiscal Year

FY 2027-2031 CIP PLAN GOALS AND OBJECTIVES

CIP Delivery Team

- Prioritize projects to:
  - Enhance redundancy and resiliency of GLWA's systems
  - Prepare for unforeseen challenges
  - Address health and safety, safeguarding both our teams and partner communities
- Support a coherent and forward-looking approach
- Strategic consideration of:
  - Long-term Master Plans
  - GLWA's 10-year Financial Plan
- Engage stakeholders (share information and solicit input)
- Meet regulatory requirements and operational needs

HISTORICAL CIP KPI's - UPDATED

CIP Delivery Team

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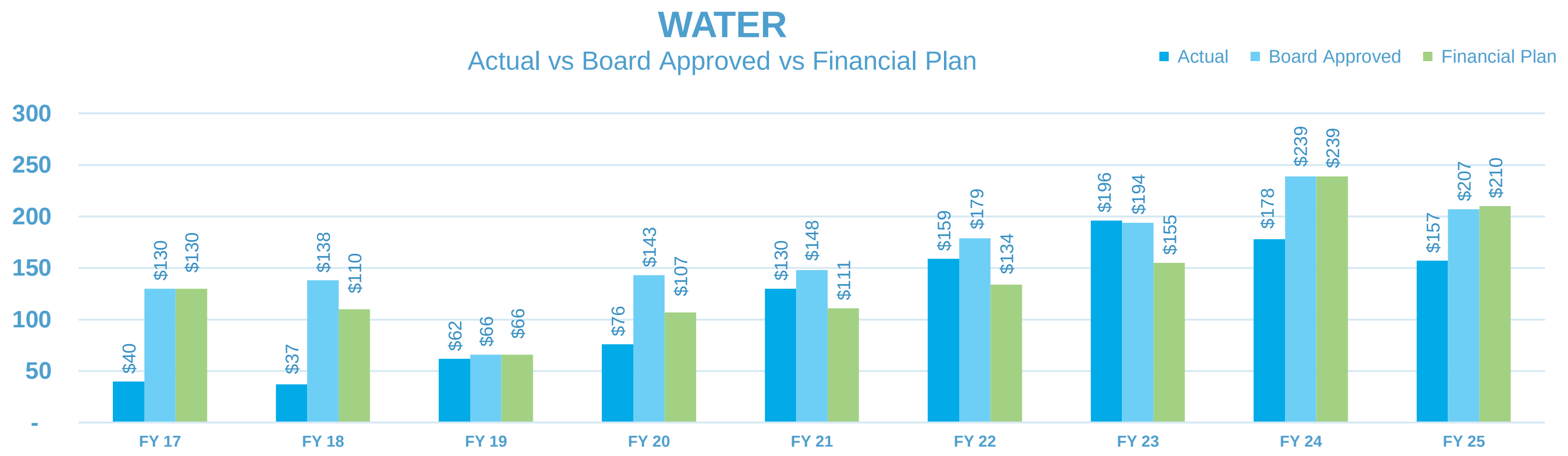
CIP – Capital Improvement Plan | **KPI** – Key Performance Indicator

WATER CIP SPEND - HISTORY

CIP Delivery Team



WATER CIP DELIVERY

Fiscal Year	A Board Approved	B Capital Spend Ratio %	C Financial Plan A x B	D Actual	E % Board Approved D/A	F % Financial Plan D/C
FY 17	$ 130M	100%	$ 130M	$ 40M	31%	31%
FY 18	$ 138M	80%	$ 110M	$ 37M	27%	34%
FY 19	$ 66M	100%	$ 66M	$ 62M	94%	94%
FY 20	$ 143M	75%	$ 107M	$ 76M	53%	71%
FY 21	$ 148M	75%	$ 111M	$ 130M	88%	117%
FY 22	$ 179M	75%	$ 134M	$ 159M	89%	118%
FY 23	$ 194M	80%	$ 155M	$ 196M	101%	126%
FY 24	$ 239M	100%	$ 239M	$ 178M	74%	74%
FY 25	$ 207M	100%	$ 210M	$ 157M	76%	75%

Values in Million Dollars

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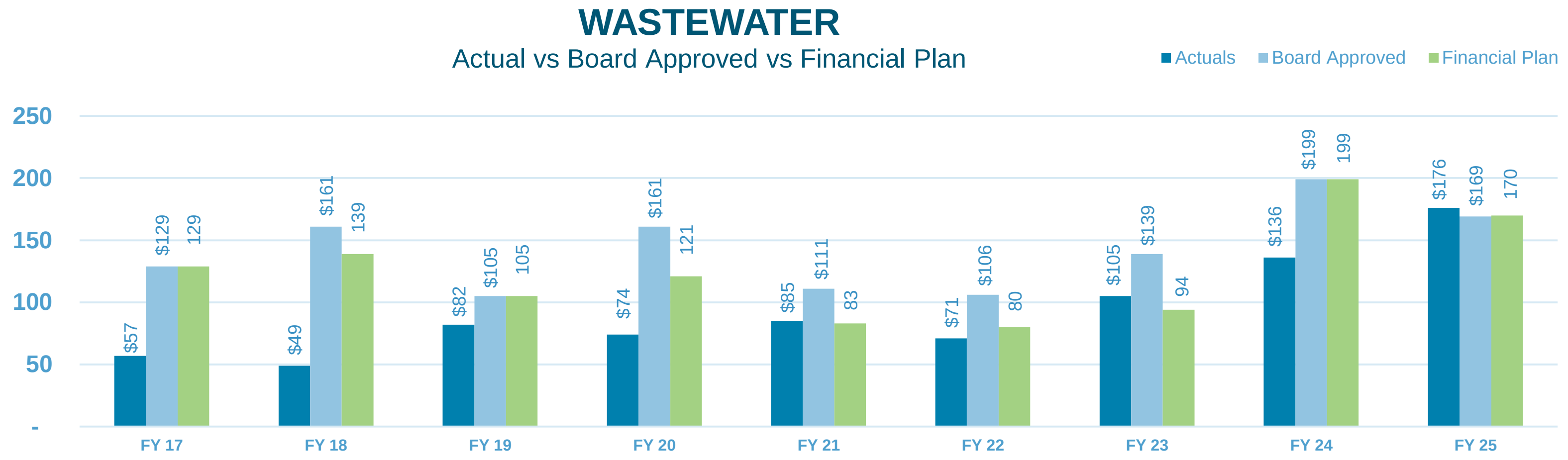
CIP – Capital Improvement Plan | **CSR** – Capital Spend Ratio

WASTEWATER CIP SPEND - HISTORY

CIP Delivery Team



WASTEWATER CIP DELIVERY

Fiscal Year	A Board Approved	B CSR %	C Financial Plan A x B	D Actual	E % Board Approved D/A	F % Financial Plan D/C
FY 17	$ 129M	100%	$ 129M	$ 57M	44%	44%
FY 18	$ 161M	87%	$ 139M	$ 71M	44%	51%
FY 19	$ 105M	100%	$ 105M	$ 82 M	78%	78%
FY 20	$ 161M	75%	$ 121M	$ 74M	46%	61%
FY 21	$ 111M	75%	$ 83M	$ 82M	74%	98%
FY 22	$ 106M	75%	$ 80M	$ 67M	63%	84%
FY 23	$ 126M	75%	$ 94M	$ 105M	83%	112%
FY 24	$ 199M	100%	$ 199M	$ 136M	68%	68%
FY 25	$ 169M	100%	$ 170M	$ 176M	104%	104%

Values in Million Dollars

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CIP – Capital Improvement Plan | **CSR** – Capital Spend Ratio | **FY** – Fiscal Year

FY 2027-2031 DISCUSSION DRAFT 1

CIP Delivery Team

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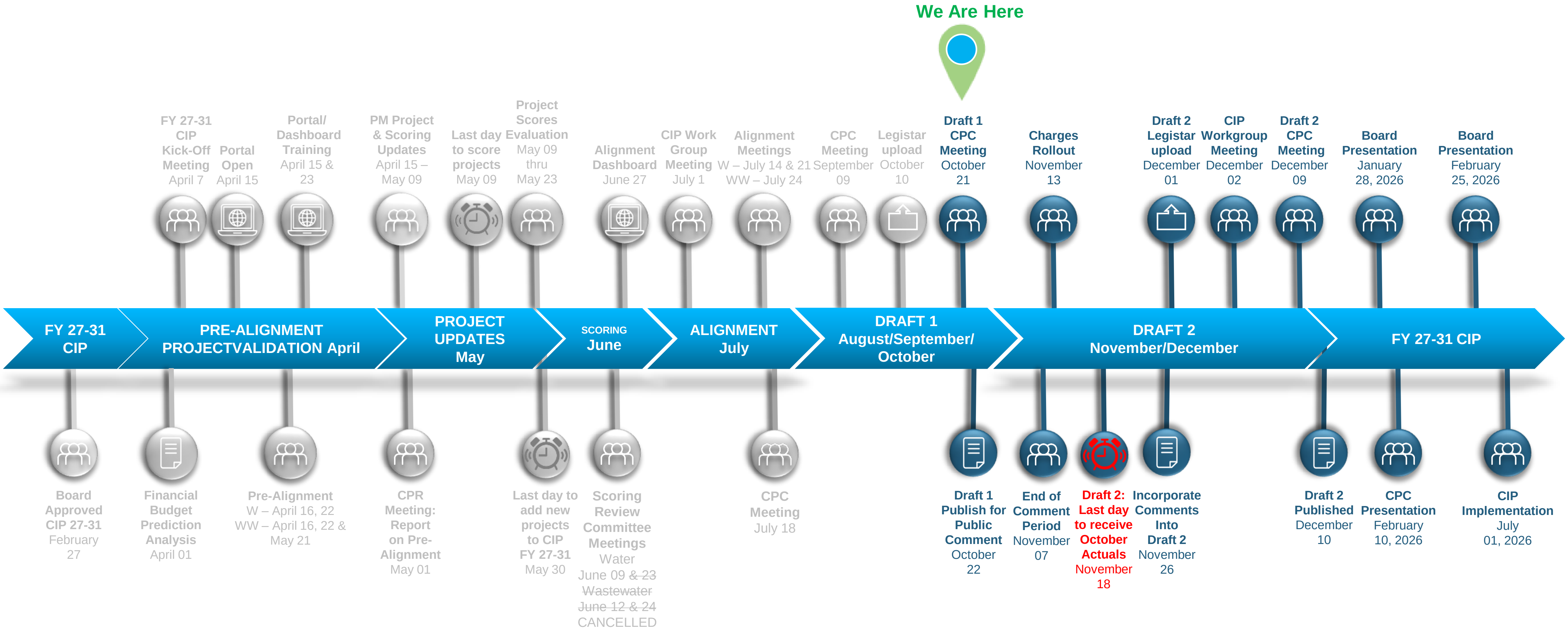
FY 2027-2031 ROAD MAP- HOW WE GOT HERE

CIP Delivery Team



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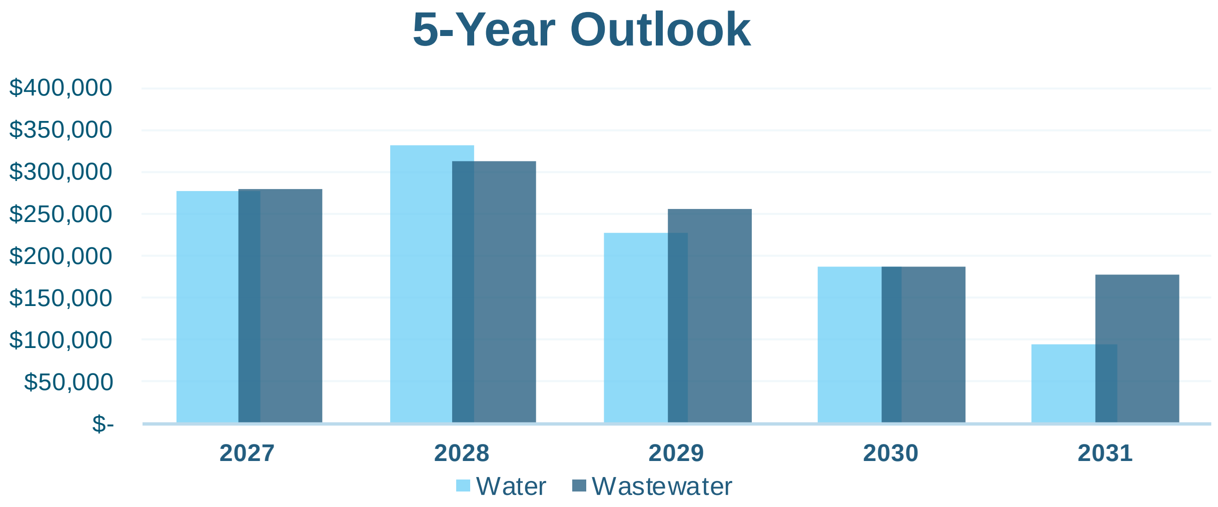
CPC – Capital Planning Committee | **CIP** – Capital Improvement Plan | **CPR** – Capital Program Review
PM – Project Manager | **ELT** – Executive Leadership Team | **FY** – Fiscal Year

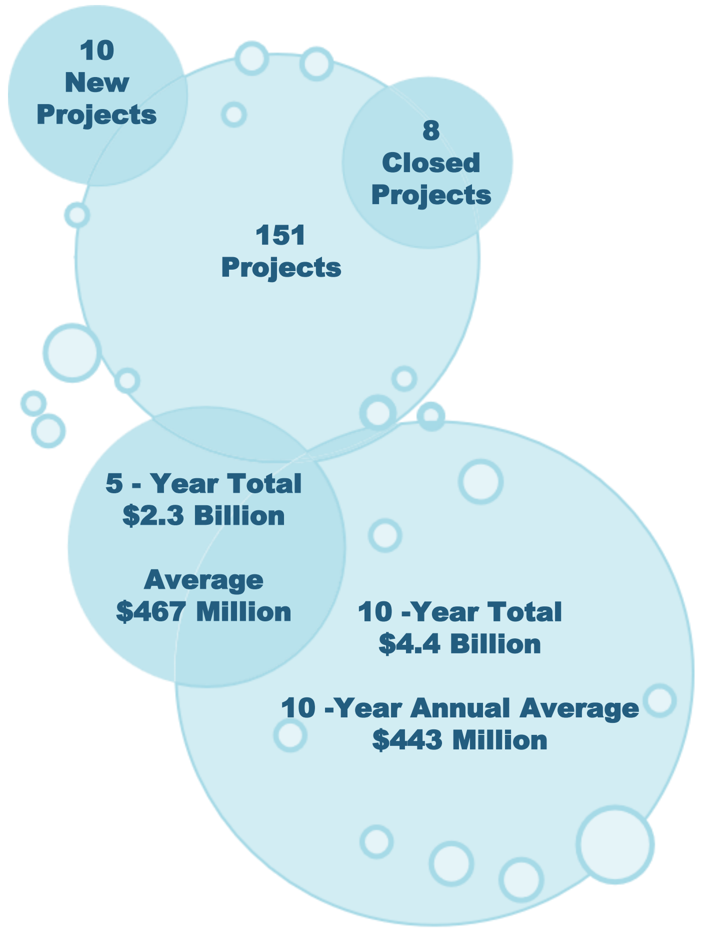
CIP AT A GLANCE



WATER	
5-Year Total	**$1,119,593**
5-Year Average	$223,919
10-Year Total	**$2,267,212**
10-Year Average	$226,721

WASTEWATER	
5-Year Total	**$1,216,736**
5-Year Average	$243,347
10-Year Total	**$2,158,831**
10-Year Average	$215,883

Financial figures in $1,000s and rounded



CIP – Capital Improvement Plan

DISCUSSION DRAFT 1 - KEY HIGHLIGHTS

CIP Delivery Team

- **Actuals and Forecasts:**
    - Actuals as of July 31, 2025
    - Project Manager updates as of September 2, 2025
- **A CSR is Proposed for the CIP 5 year and 10-year Projections**
    - Project complexities
    - Projection uncertainty
- **Financial Chapter:** Included in Discussion Draft 1
- **Central Services category removed to facilitate efficient transition to PMIS****
- **Public CIP Dashboard accessible on GLWA Website**

**** The plan is for Discussion Draft 2 to be updated to include updated actuals reporting***
***** Projects will be addressed under Water and Water categories***

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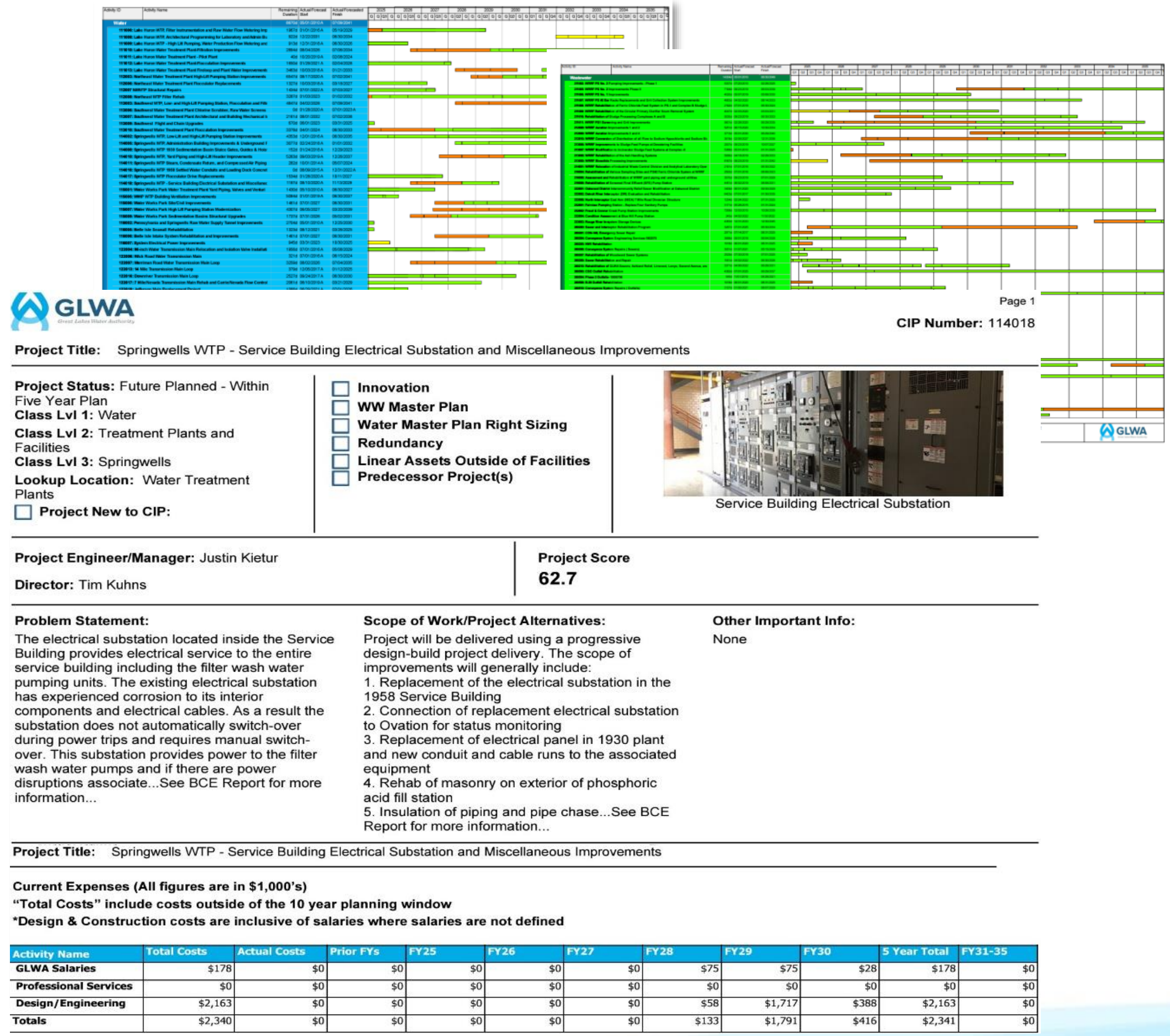
CIP – Capital Improvement Plan | **CSR** – Capital Spend Ratio | **PMIS** – Project Information Management System

FY 2027-2031 CIP DOCUMENT HIGHLIGHTS

CIP Delivery Team

- CIP at a glance
- Project summaries
- Water and Wastewater BCEs
- Summary tables per various categories
- GIS Maps
- Integrated master schedule
- Link to CIP Document page - [CIP - GLWA]



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Page 1

CIP Number: 114018

Project Title: Springwells WTP - Service Building Electrical Substation and Miscellaneous Improvements

Project Status: Future Planned - Within Five Year Plan
Class Lvl 1: Water
Class Lvl 2: Treatment Plants and Facilities
Class Lvl 3: Springwells
Lookup Location: Water Treatment Plants
☐ **Project New to CIP:**

☐ **Innovation**
☐ **WW Master Plan**
☐ **Water Master Plan Right Sizing**
☐ **Redundancy**
☐ **Linear Assets Outside of Facilities**
☐ **Predecessor Project(s)**

Service Building Electrical Substation

Project Engineer/Manager: Justin Kietur

Director: Tim Kuhns

Project Score
62.7

Problem Statement:
The electrical substation located inside the Service Building provides electrical service to the entire service building including the filter wash water pumping units. The existing electrical substation has experienced corrosion to its interior components and electrical cables. As a result the substation does not automatically switch-over during power trips and requires manual switch-over. This substation provides power to the filter wash water pumps and if there are power disruptions associate...See BCE Report for more information...

Scope of Work/Project Alternatives:
Project will be delivered using a progressive design-build project delivery. The scope of improvements will generally include:
1. Replacement of the electrical substation in the 1958 Service Building
2. Connection of replacement electrical substation to Ovation for status monitoring
3. Replacement of electrical panel in 1930 plant and new conduit and cable runs to the associated equipment
4. Rehab of masonry on exterior of phosphoric acid fill station
5. Insulation of piping and pipe chase...See BCE Report for more information...

Other Important Info:
None

Project Title: Springwells WTP - Service Building Electrical Substation and Miscellaneous Improvements

Current Expenses (All figures are in $1,000's)
"Total Costs" include costs outside of the 10 year planning window
***Design & Construction costs are inclusive of salaries where salaries are not defined**

Activity Name	Total Costs	Actual Costs	Prior FYs	FY25	FY26	FY27	FY28	FY29	FY30	5 Year Total	FY31-35
GLWA Salaries	$178	$0	$0	$0	$0	$0	$75	$75	$28	$178	$0
Professional Services	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Design/Engineering	$2,163	$0	$0	$0	$0	$0	$58	$1,717	$388	$2,163	$0
Totals	$2,340	$0	$0	$0	$0	$0	$133	$1,791	$416	$2,341	$0

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CIP – Capital Improvement Plan | **FY** – Fiscal Year
GIS – Geographic Information System | **BCE** – Business Case Evaluation

FY 2027-2031 CIP OPPORTUNITIES

CIP Delivery Team

- **Proactive Planning:**
  - Active portfolio monitoring
  - Improved portfolio management
- **Frequent Updates**
  - Improved Schedules
  - Improved Forecasts
- **Funding availability**

CIP – Capital Improvement Plan | **FY** – Fiscal year

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FY 2027-2031 CIP CHALLENGES

CIP Delivery Team

- Balancing the systems needs with prudent financial planning
- Mitigating the impacts of potential project complexities
- Resource limitations (Vendors and GLWA)

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CIP – Capital Improvement Plan | **FY** – Fiscal year

FY 2027-2036 CIP WATER SUMMARY

CIP Delivery Team

HIGH LEVEL SUMMARY OF CIP

PROJECTS WITH SIGNIFICANT SCHEDULE ADJUSTMENTS

WATER SYSTEM STATISTICS

NEW PROJECTS

CIP – Capital Improvement Plan | **FY** – Fiscal Year

FY 2027-2031 CIP WATER SUMMARY

CIP Delivery Team

CIP Document	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Total
Approved Water CIP FY 2026-2030	$183,064	$233,120	$285,942	$230,461	$150,642	$160,957	$1,083,229
Draft 1 Water CIP FY 2027-2031		$277,274	$333,737	$227,589	$186,974	$94,019	$1,119,593
Difference		$44,154	$47,796	$(2,873)	$36,333	$(66,939)	$36,364
Difference %		18.94%	16.72%	-1.25%	24.12%	-41.59%	3.36%

	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Avg
Proposed CSR %	100%	95%	90%	100%	100%	100%	97%

Financial Plan	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Total
Approved Water CIP FY 2026-2030	$183,064	$233,120	$285,942	$230,461	$150,642	$160,957	$1,083,229
Draft 1 Water CIP FY 2027-2031 with CSR		$263,410	$300,363	$227,589	$186,974	$94,019	$1,072,355

- 5-year total for FY 27-31 is ~3.36% more than FY 26-30 CIP
- 5-year annual average is $223,919 for FY 27-31 vs $216,646 from FY 26-30 *(Prior to applying CSR)*

Financial figures in $1,000s and rounded

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CIP – Capital Improvement Plan | **FY** – Fiscal Year | **CSR** – Capital Spend Ratio

FY 2027-2031 CIP WATER PROJECTS
WITH SCHEDULE SHIFT => 2 YRS.

CIP Delivery Team

Four (4) Water projects with a schedule start change of two (2) years or more

CIP	TITLE	REASON	VARIANCE (IN YEARS)
170500	**Transmission System Valve Rehabilitation and Replacement Program**	Un-Allocated Program Funds shifted	7
122019	**Jefferson Main Replacement Project**	Delayed due to project interdependency on outside organizational project delays	4
170400	**Water Transmission Improvement Program**	Un-Allocated Program Funds shifted	4
171500	**Roof Replacement at Water Works Park, Springwells, Lake Huron, Northeast, Southwest, North Service Center, Orion, Franklin, and Conner Creek Facilities**	Un-Allocated Program Funds shifted	3

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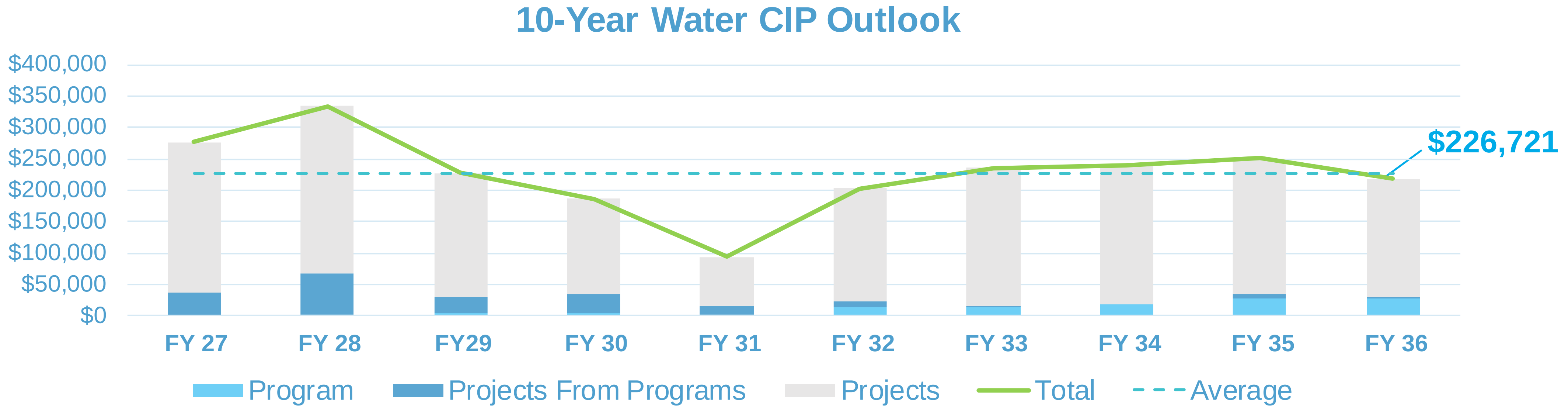
CIP – Capital Improvement Plan | **FY** – Fiscal year

FY 2027-2036 CIP 10-YEAR WATER OUTLOOK

CIP Delivery Team

Program Category	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36
Program	$0	$518	$1,018	$3,547	$3,547	$1,589	$13,478	$13,807	$17,541	$28,436	$26,825
Projects	$124,840	$239,660	$266,753	$197,149	$152,288	$78,152	$179,670	$221,352	$221,707	$216,108	$187,141
Projects From Programs	$69,465	$37,097	$65,966	$26,894	$31,140	$14,278	$9,594	$1,152	$479	$6,603	$3,727
Total	**$194,305**	**$277,274**	**$333,737**	**$227,589**	**$186,974**	**$94,019**	**$202,743**	**$236,311**	**$239,726**	**$251,147**	**$217,693**



~2.3% <u>increase</u> in 10-year average from FY26-30 CIP ($221,692)

Financial figures in $1,000s and rounded

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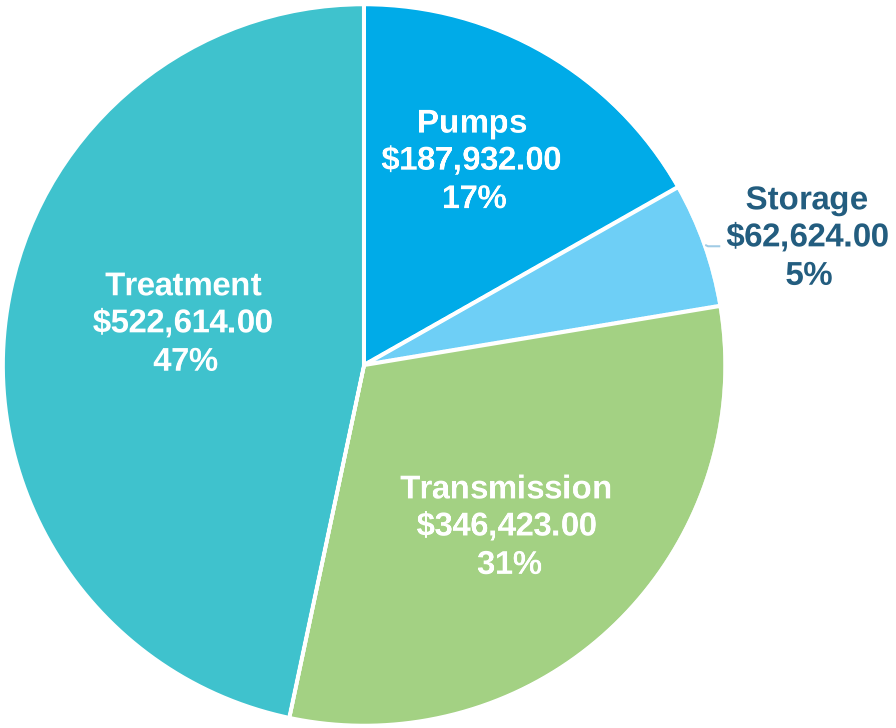
CIP – Capital Improvement Plan | **FY** – Fiscal Year

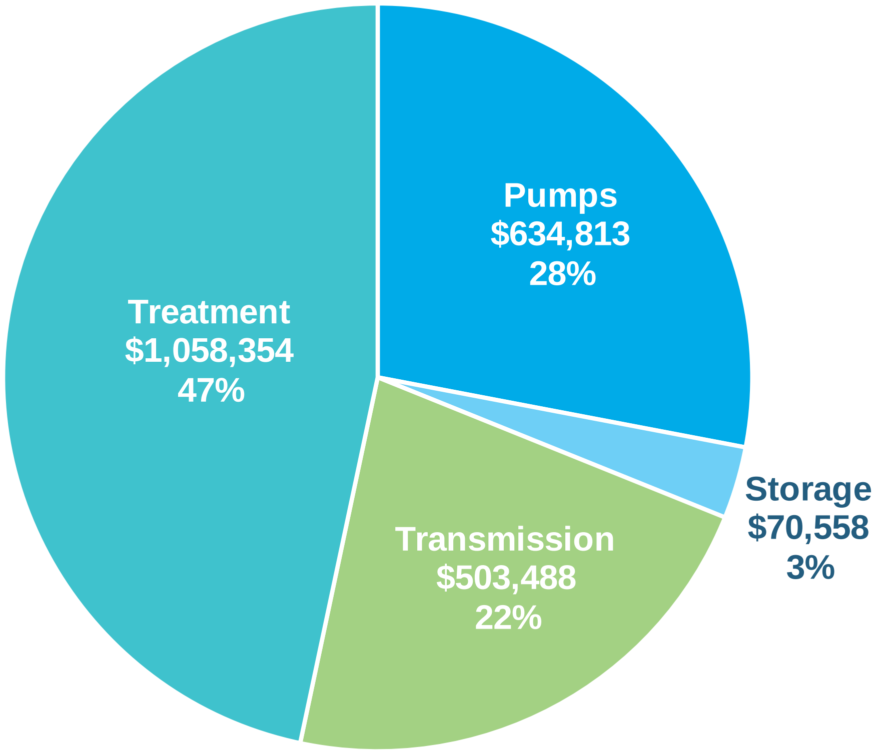
FY 2027-2031 CIP WATER SYSTEM STATISTICS PROJECTS BY TYPE

CIP Delivery Team

WATER 5-YEAR FY27-31



WATER 10-YEAR FY27-36



Financial figures in $1,000s and rounded

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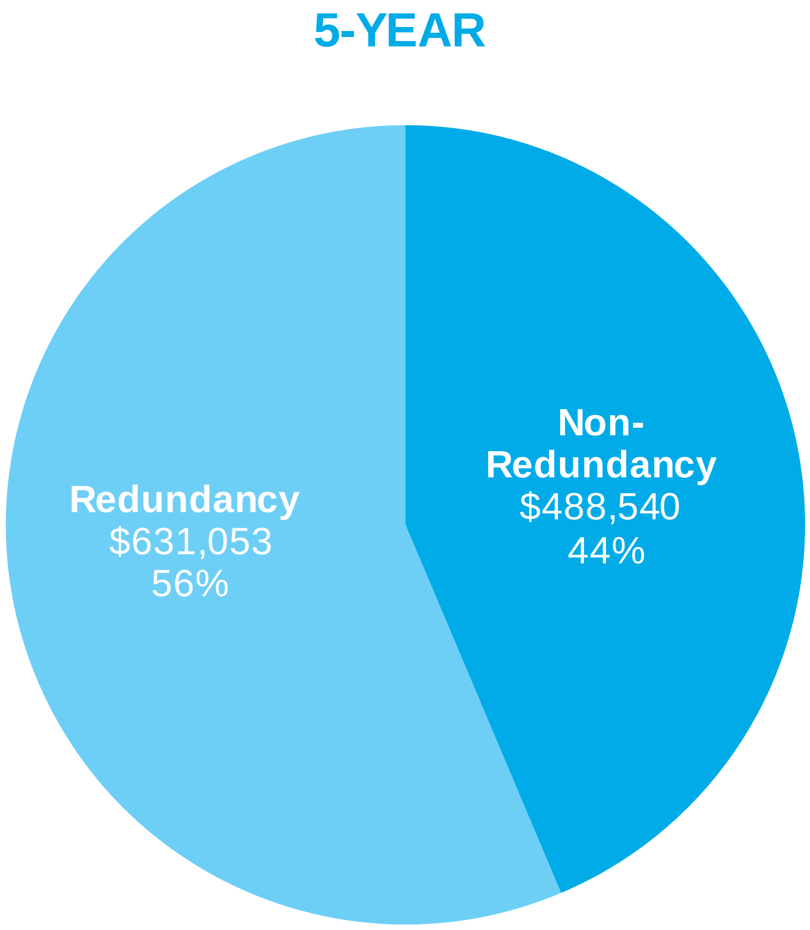
CIP – Capital Improvement Plan | **FY** – Fiscal Year

FY 2027-2031 CIP WATER SYSTEM STATISTICS REDUNDANCY PROJECTS



Financial figures in $1,000s and rounded

CIP – Capital Improvement Plan | **FY** – Fiscal Year

FY 2027-2031 CIP WATER SYSTEM STATISTICS MASTER PLAN PROJECTS

CIP Delivery Team

CIP #	Title	2027-2031 CIP Total
111001	Lake Huron WTP, Low-Lift, High Lift and Filter Backwash Pumping System Improvements	$97,474
111010	Lake Huron WTP Filtration Improvement	$3,619
112003	Northeast Water Treatment Plant High-Lift Pumping Station Improvements	$0
113003	Southwest Water Treatment Plant Low- and High lift Pumping station Improvements	$0
113010	Southwest Water Treatment Plant Flocculation Improvements	$29,677
114002	Springwells Water Treatment Plant, Low-Lift and High-Lift Pumping Station Improvements	$64,783
115001	Water Works Park Water Treatment Plant Yard Piping, Valves and Venturi Meters Replacement	$0
115007	Water Works Park High Lift Pumping Station Modernization	$0
122007	Merriman Road Water Transmission Main Loop	$6,564
132019	Wick Road Pumping Station Improvements	$0
132021	Imlay Pumping Station Improvements	$0
170907	GLWA New Water Master Meter FL-01 Vault Upgrade and Rightsizing	$0

	FY 27-31
Water Non-Master Plan	$917,476
Water Master Plan	$202,117 *(18%)*
Total	$1,119,593

Financial figures in $1,000s and rounded

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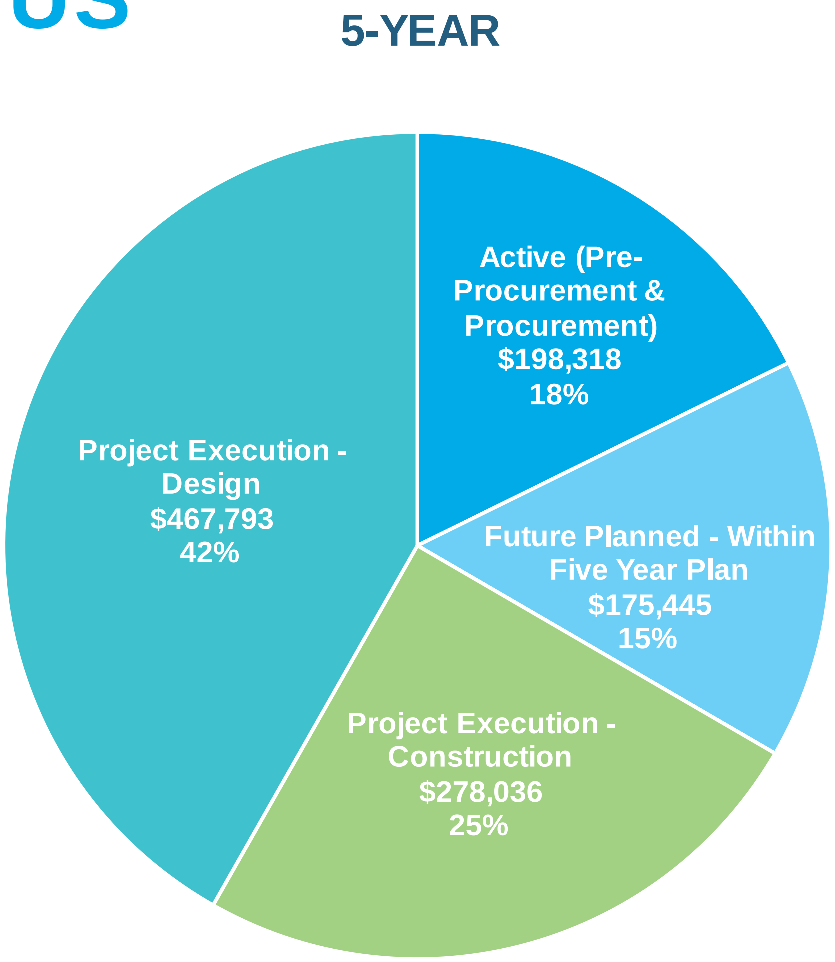
CIP – Capital Improvement Plan | **FY** – Fiscal Year
WTP – Water Treatment Plant

FY 2027-2031 CIP WATER SYSTEM STATISTICS PROJECTS STATUS



Financial figures in $1,000s and rounded

CIP – Capital Improvement Plan | **FY** – Fiscal Year

FY 2027-2031 CIP NEW WATER PROJECTS

CIP Delivery Team

9 new project and 1 new program were added to the FY 27-31 CIP

CIP Number	Title	Total Project $	Design Start	Construction Start	Construction End	Project Score
170605	42-inch Squirrel, Auburn Hills – Condition Assessment	$5,618	9/1/2029	10/1/2030	4/30/2031	58.4
170606	120-inch Pipeline Renewals	$30,825	7/1/2025	10/1/2027	4/30/2028	77.5
170607	42-inch Tyler-North, Van Buren Township – Condition Assessment	$6,629	7/1/2026	8/3/2028	5/31/2030	57.5
170507	Water Transmission, Valve, Emergency and Other Urgent Repairs – Contract 2	$15,150	N/A	10/1/2026	10/1/2031	100.0
*170700**	*Transmission Pump Station Mechanical/Structural/Architectural Improvements Program*	$10,000	*07/01/2030*	*07/01/2030*	*06/30/2040*	*n/a*
114019	Springwell Sedimentation Basins Sludge Processing Facility	$8,080	N/A	07/01/2026	01/01/2028	74.4
116101	Design/Inspection of Raw Water Tunnels	$4,242	N/A	09/15/2026	04/15/2028	59.4
112009	Northeast Sedimentation Basins Sludge Processing Facility	$9,090	07/01/2025	07/01/2026	01/01/2028	74.4
122024	Central Post Beard Transmission Main Renewal	$25,250	N/A	01/01/2027	01/01/2028	75.0
122025**	Morang Transmission Main Replacement	$9,090	07/01/2031	07/01/2031	07/01/2032	63.9

** New Program*
*** Starts Within - 10-year outlook*

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CIP – Capital Improvement Plan | **FY** – Fiscal year | **N/A** – Not Applicable

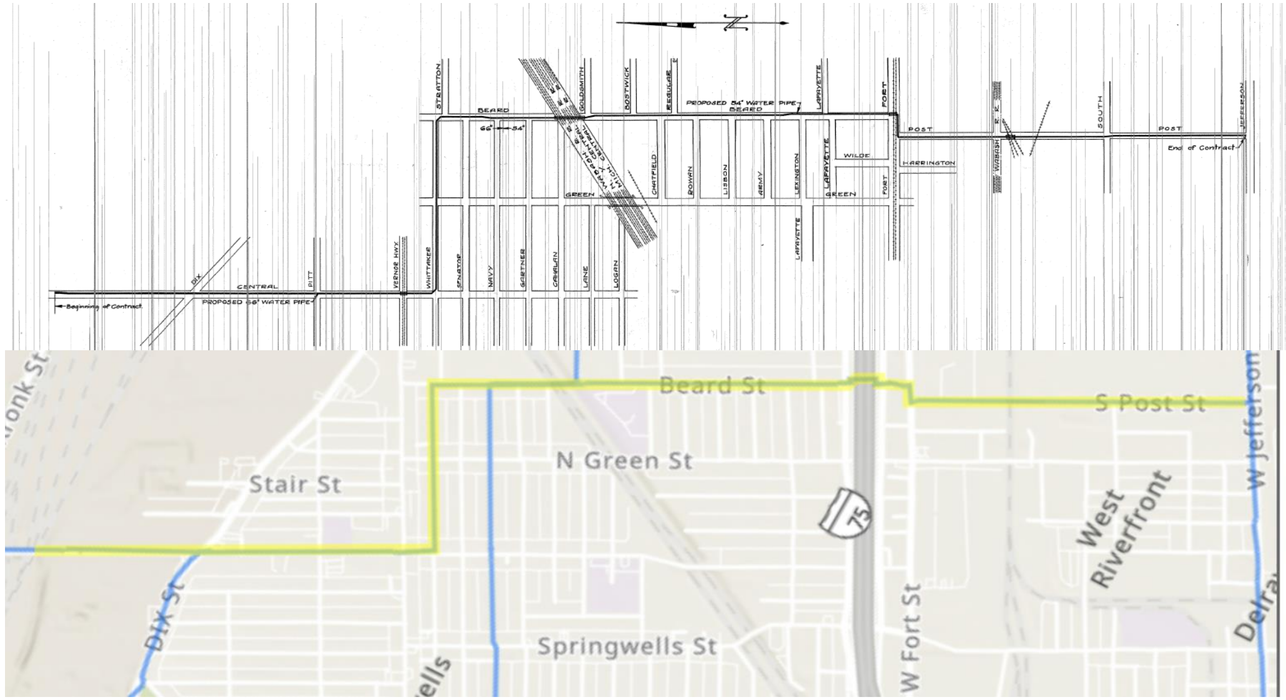
BEARD TRANSMISSION MAIN RENEWAL

CIP Delivery Team

CIP	PROJECT LOCATION	PROJECT MANAGER	PROJECT DRIVERS
122024	Detroit	Corey Brecht	Health and safety & public benefit

Project Background

54-inch transmission main along Beard was location of major break in February 2025. The pipeline segment has issues with longitudinal weld and is almost 100 years old.



Scope

Options assessed:

- “Do nothing” alternative considered non-viable considering the consequence of failure of this pipeline.
- Replacement costs evaluated, but open cut construction of this pipeline in a heavily urbanized area was not considered viable.
- Rehab alternative via slip lining was selected as the pipeline diameter can be reduced without impact to the system hydraulics.

Project Drivers

Central Post Beard Transmission Main failed catastrophically in February 2025. It was discovered that the failure within the 54-inch steel pipe occurred along a longitudinal weld. There is currently limited technology available for reliable condition assessment of this pipeline, so GLWA is looking to perform pipeline renewal through a slip-lining method.

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CIP – Capital Improvement Plan

FY 2027-2036 WASTEWATER SUMMARY

HIGH LEVEL SUMMARY OF CIP

PROJECTS WITH SIGNIFICANT SCHEDULE ADJUSTMENTS

WASTEWATER STATISTICS

NEW PROJECTS

CIP – Capital Improvement Plan | **FY** – Fiscal Year

FY 2027-2031 CIP WASTEWATER SUMMARY

CIP Delivery Team

CIP Document	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Total
Approved Wastewater CIP FY 2026-2030	$193,221	$291,841	$337,800	$261,115	$187,625	$155,511	$1,271,603
Draft 1 Wastewater CIP FY 2027-2031		$280,901	$312,648	$257,620	$188,294	$177,273	$1,216,736
Difference		($10,940)	($25,151)	$(3,496)	$668	$21,762	$(54,868)
Difference %		-3.75%	-7.45%	-1.34%	0.36%	13.99%	-4.31%

	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Avg
Proposed CSR %	90%	90%	89%	91%	97%	100%	90%

Financial Plan	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Total
Approved Wastewater CIP FY 2026-2030	$173,899	$233,473	$283,752	$250,671	$187,625	$155,511	$1,129,420
Draft 1 Wastewater CIP FY 2027-2031 with CSR		$252,811	$278,257	$234,434	$182,645	$177,273	$1,125,419

- 4.31 % decrease in the 5-year total between FY 26-30 & Proposed FY 27-31 CIP
- 5-year annual average is $243,347 (compared to $254,320 from FY 26-30)

Financial figures in $1,000s and rounded

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CIP – Capital Improvement Plan | **FY** – Fiscal Year | **CSR** – Capital Spend Ratio

FY 2027-2031 CIP WASTEWATER PROJECTS
W/ SCHEDULE SHIFT => 2 YRS

CIP Delivery Team

Two (2) wastewater projects with a schedule start change of 2 years or more

CIP	TITLE	REASON	VARIANCE IN YEARS
260900	WRRF Facility Optimization Program	Un-Allocated Program funds shifted	9
260200	Sewer and Interceptor Rehabilitation Program	Un-Allocated Program funds shifted	5

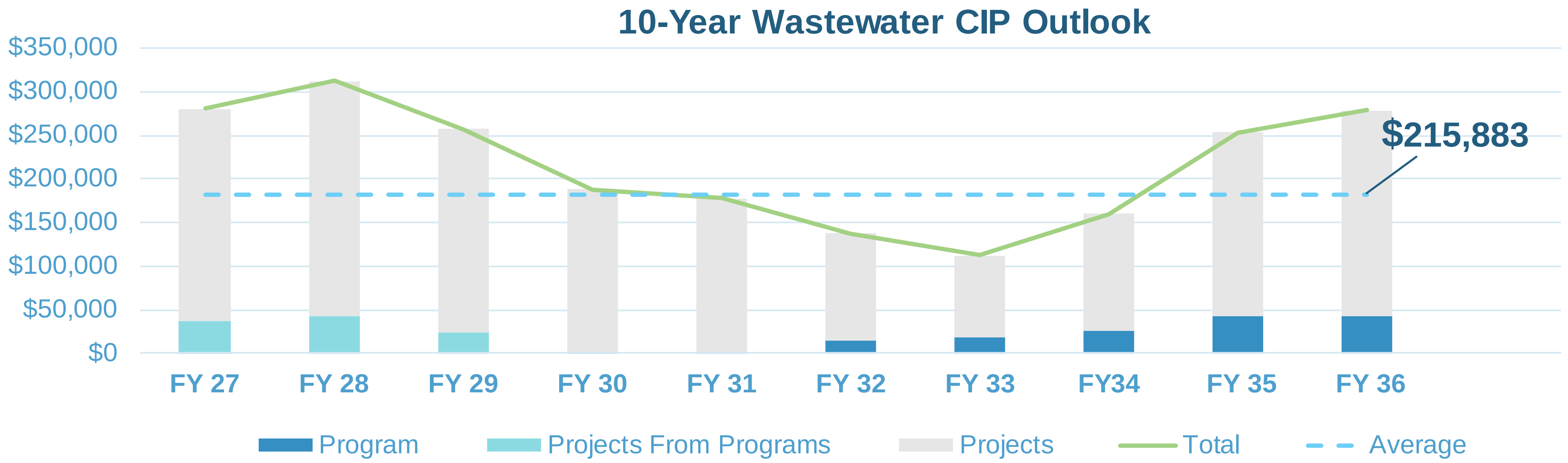
GLWA Great Lakes Water Authority

CIP – Capital Improvement Plan | **FY** – Fiscal Year

FY 2027-2036 CIP 10-YEAR WASTEWATER OUTLOOK

CIP Delivery Team

Program Category	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36
Program	$0	$115	$2,168	$2,162	$15	$515	$14,589	$18,214	$25,990	$42,753	$42,172
Projects	$208,911	$244,175	$269,924	$234,194	$187,572	$176,758	$122,843	$94,136	$133,902	$210,478	$237,018
Projects From Programs	$61,424	$36,611	$40,557	$21,264	$707	$0	$0	$0	$0	$0	$0
Total	**$270,335**	**$280,901**	**$312,648**	**$257,620**	**$188,294**	**$177,273**	**$137,433**	**$112,349**	**$159,892**	**$253,231**	**$279,190**



- ~2% decrease in 10-year average from FY 26-30 CIP ($211,283)

Financial figures in $1,000s and rounded

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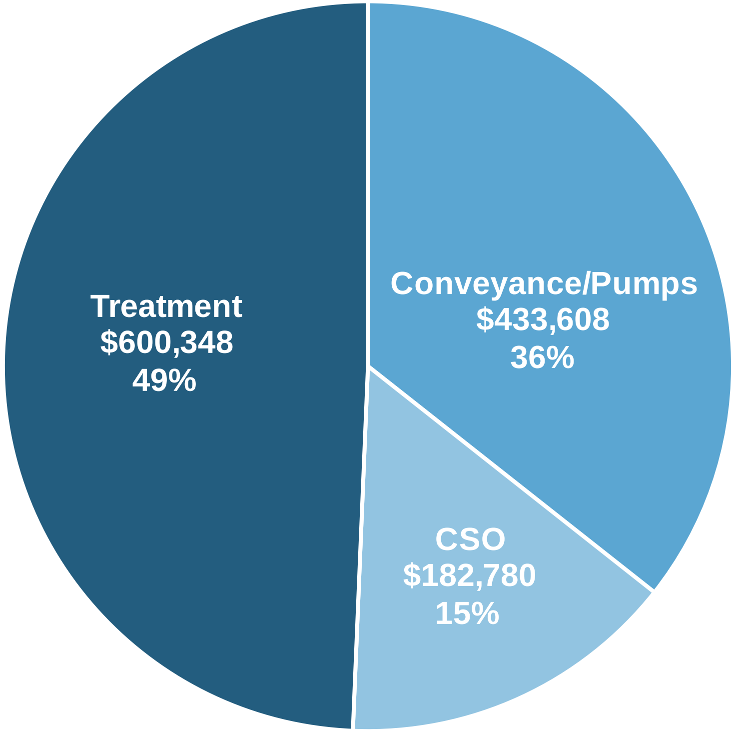
CIP – Capital Improvement Plan | **FY** – Fiscal Year

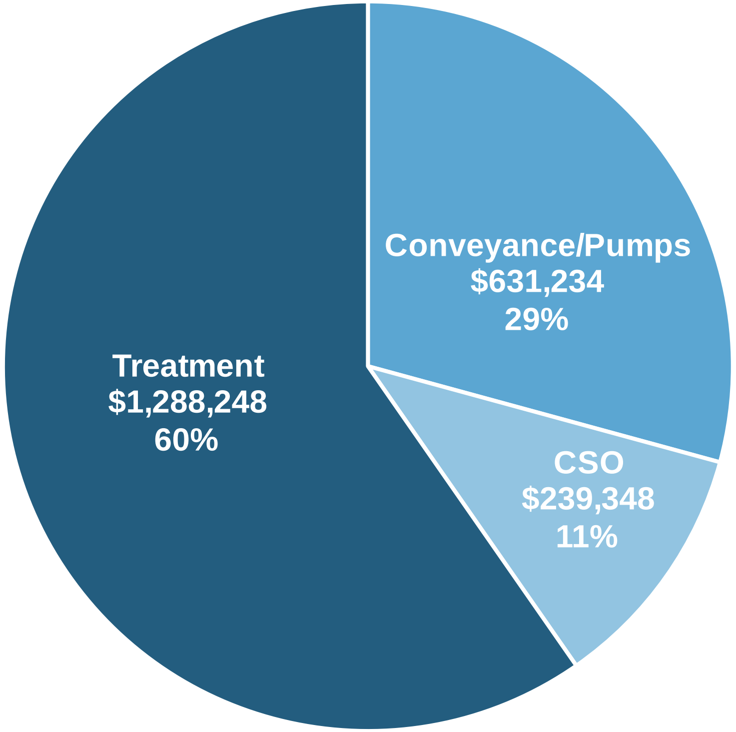
FY 2027-2031 CIP WASTEWATER SYSTEM STATISTICS PROJECTS BY TYPE

CIP Delivery Team

WASTEWATER FY27-31



WASTEWATER FY27-36



Financial figures in $1,000s and rounded

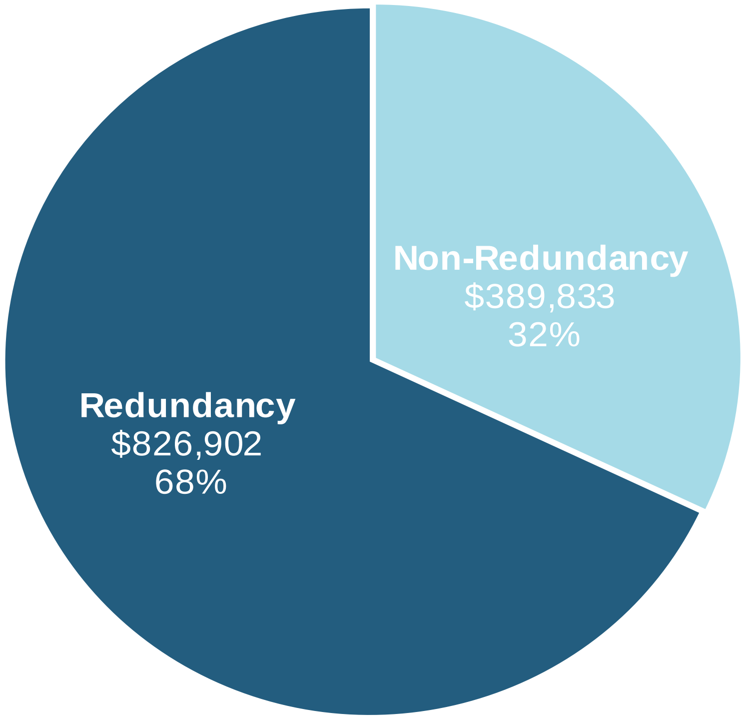
GLWA Great Lakes Water Authority

CIP – Capital Improvement Plan | **FY** – Fiscal Year | **CSO** – Combined Sewer Overflows

FY 2027-2031 CIP WASTEWATER SYSTEM STATISTICS REDUNDANCY PROJECTS

CIP Delivery Team

5-YEAR



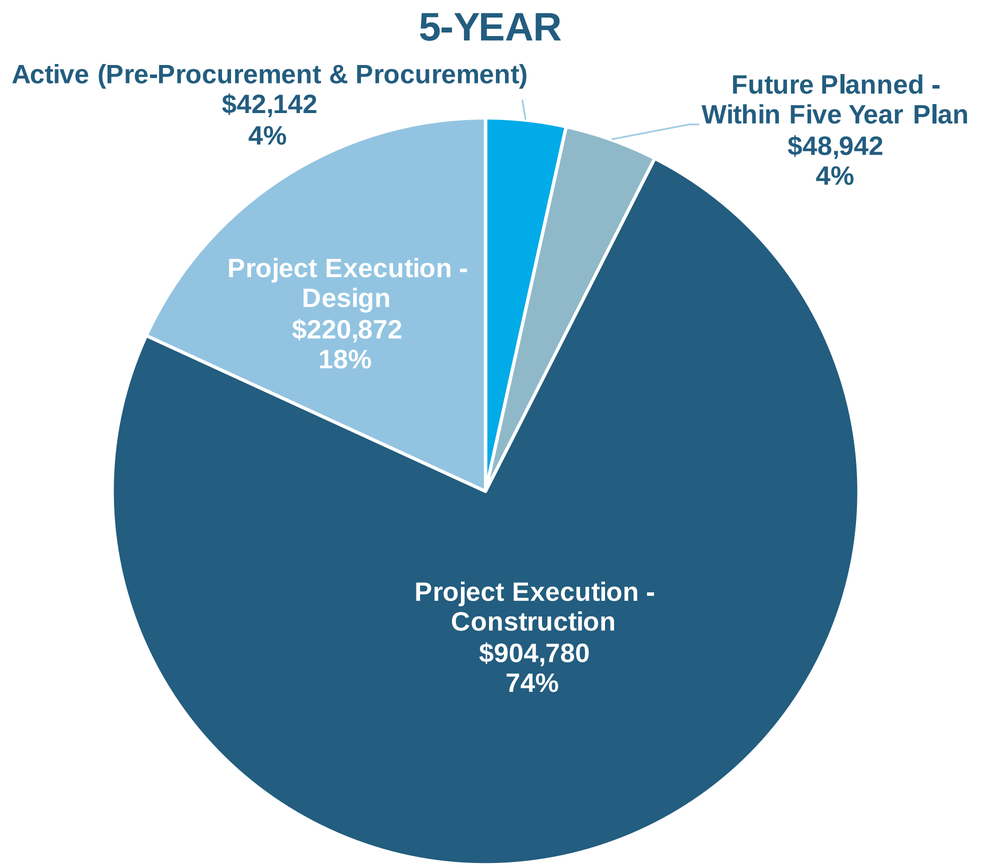
Financial figures in $1,000s and rounded

GLWA
Great Lakes Water Authority

CIP – Capital Improvement Plan | **FY** – Fiscal Year

FY 2027-2031 CIP WASTEWATER SYSTEM STATISTICS PROJECTS STATUS

CIP Delivery Team



Financial figures in $1,000s and rounded

GLWA Great Lakes Water Authority

CIP – Capital Improvement Plan | **FY** – Fiscal Year

FY 2027-2031 CIP WASTEWATER NEW PROJECTS

CIP Delivery Team

No new wastewater projects were added to the FY 27-31 CIP

CIP #	Title	Total Project $	Design Start	Const. Start	Const. End	Project Score

CIP – Capital Improvement Plan | **FY** – Fiscal year

FY 2027-2031 CIP WATER AND WASETWATER PROJECTS WITH STATUS CHANGE

CIP Delivery Team

CLOSED
PENDING CLOSEOUT
RECLASSIFIED/CANCELED
SPLIT

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CIP – Capital Improvement Plan | **FY** – Fiscal year

FY 2027-2031 CIP WATER AND WASTEWATER PROJECT STATUS CHANGES

CIP Delivery Team

CLOSED

CIP Area	CIP #	Title	Total
Water	114011	Springwells WTP Steam, Condensate Return, and Compressed Air Piping Improvements	$26,990
	116005	Belle Isle Seawall Rehabilitation	$2,078
	122013	14 Mile Transmission Main Loop	$113,832
	122017	7 Mile/Nevada Transmission Main Rehab	$13,122
	170503	Transmission Mains Valves and Urgent Repairs Contract 2	$16,169
	170801	Reservoir Inspection, Design & Construction Project at Imlay Station, Lake Huron WTP, Springwells WTP, Southwest WTP	$25,210
Water Total			**$197,401**
Wastewater	260508	B-39 Outfall Rehabilitation	$10,461
	260901	Rehabilitation of HAZMAT Facility at WRRF	$3,792
Wastewater Total			**$14,253**

RECLASSIFIED & CANCELLED

CIP Area	CIP #	Title	Project Status
Water	111008*	Lake Huron WTP, Architectural Programming for Laboratory and Admin Building Improvements	Canceled
	116007	System Electrical Power Improvements	
Centralized Services**	381000*	Power Quality: Electric Metering Improvement Program	Canceled
	383300*	Masonry Replacement and Rehabilitation Program	

** Related improvements will be incorporated as part of projects within each facility*

PENDING CLOSEOUT

CIP Area	CIP #	Title	Total
Water	170302	Southwest SCADA System Upgrade	$8,162
Water Total			**$8,162**
Wastewater	260201	CON-149, Emergency Sewer Repair	$39,032
	260205	Northwest Interceptor Rehabilitation	$9,114
	270003	Long Term CSO Control Plan	$8,173
Wastewater Total			**$55,154**

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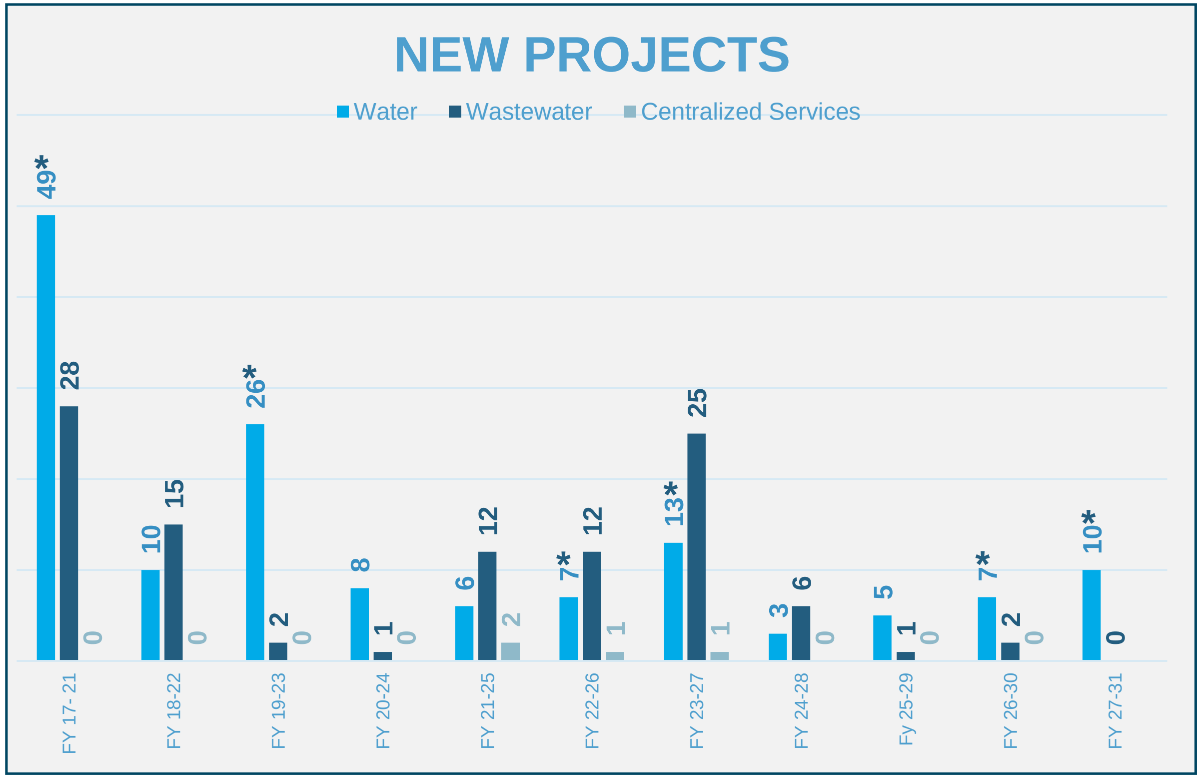
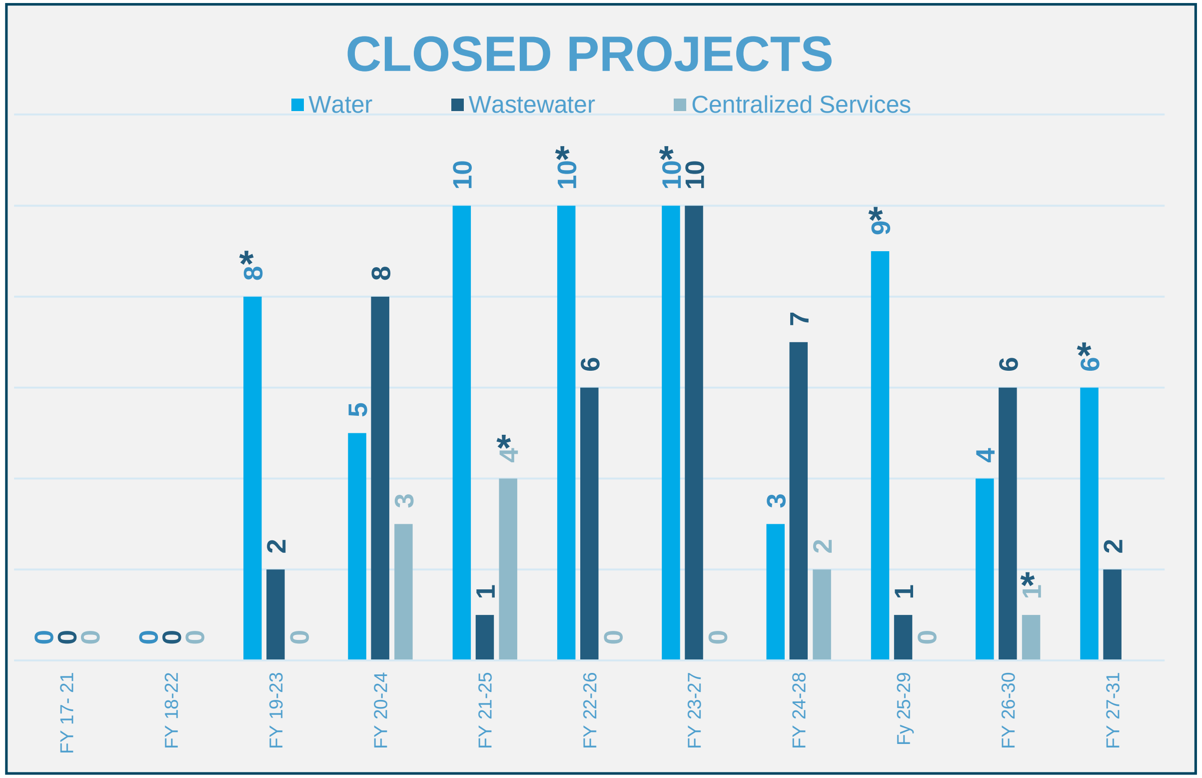
CIP – Capital Improvement Plan | **FY** – Fiscal Year | **WTP** – Water Treatment Plant | **CSR** – Capital Spend Ratio
WRRF – Water Resource Recovery Facility | **CSO** – Combined Sewer Overflows | **SCADA** – Supervisory control and data acquisition

HISTORICAL REVIEW – NEW & CLOSED CIP PROJECTS

CIP Delivery Team





- **TOTAL NEW**
  - Water – 144
  - Wastewater – 104
  - Centralized – 4

*** includes projects from programs**

- **TOTAL CLOSED**
  - Water - 62
  - Wastewater – 39
  - Centralized – 10

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CIP – Capital Improvement Plan | **FY** – Fiscal Year

FY 2027-2031 CIP
PUBLIC DASHBOARD

CIP Delivery Team

GLWA
Great Lakes Water Authority

PUBLIC DASHBOARD

CIP Delivery Team

GLWA Great Lakes Water Authority

[CIP PUBLIC DASHBOARD](#)

Project Total

0.00 | 908,269,564.73

Project Schedule

5/1/2010 | 10/25/2039

Project Status	Activity Category	CIP Budget	Project Location	Key Areas	Facility
All	Construction	All	All	All	All

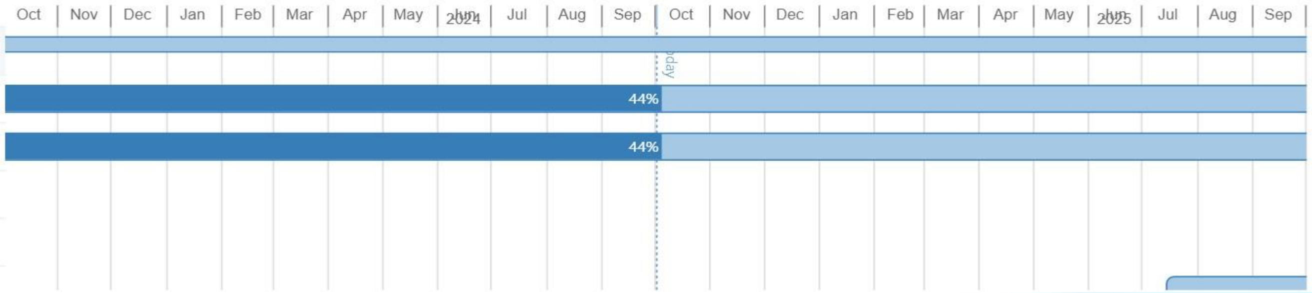
CIP #	CIP Title
111001	Lake Huron WTP, Low-Lift, High Lift and Filter Backwash Pumping System Improvemer
111006	Lake Huron WTP, Filter Instrumentation and Raw Water Flow Metering Improvements
111009	Lake Huron WTP - High Lift Pumping, Water Production Flow Metering and Yard Pipin Improvements
111010	Lake Huron WTP Filtration Improvement
111011	Lake Huron WTP Pilot Plant
111012	LHWTP-Flocculation Improvements
111013	Lake Huron Water Treatment Plant Fireloop and Plant Water Improvements
112003	Northeast Water Treatment Plant High-Lift Pumping Station Improvements
112006	Northeast Water Treatment Plant Flocculator Replacements

CIP: CIP Name	2025	2026	2027	2028
111001 - Lake Huron WTP, Low-Lift, High Lift and Filter Backwash Pumping System Improvements	0.00	11,740,523.92	16,223,714.99	25,558,680.20
111006 - Lake Huron WTP, Filter Instrumentation and Raw Water Flow Metering Improvements	13,333,023.86	20,910,877.79	20,259,792.16	11,786,072.89
111009 - Lake Huron WTP - High Lift Pumping, Water Production Flow Metering and Yard Piping Improvements	12,214,243.27	6,665,041.68	1,658,760.71	0.00
111010 - Lake Huron WTP Filtration	0.00	0.00	0.00	0.00

Close | Open

Months | Years

Task	Start	End	Days	Progress
111001 - LAKE HURON ...	03/13/20	07/25/30	3787 d	22%
111001: Capital Delivery Sa...	03/13/20	07/25/30	3787 d	44%
111001: Capital Delivery Sa...	03/13/20	07/25/30	3787 d	44%
111001: Construction (Pha...	07/13/27	06/29/30	1083 d	0%
111001: Construction (Pha...	07/24/28	06/29/30	706 d	0%
111001: Construction - Swi...	07/14/25	01/25/28	926 d	0%



RECAP & NEXT STEPS

CIP Delivery Team

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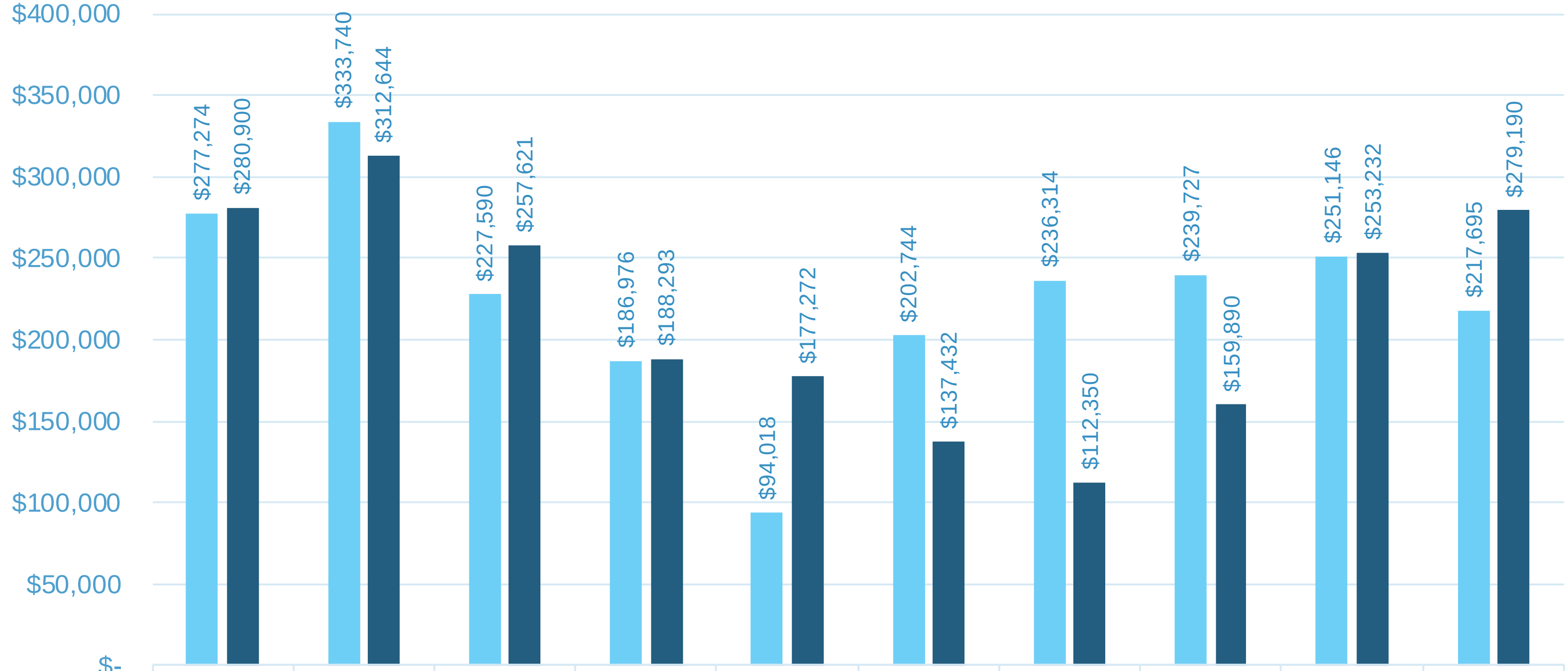
WATER & WASTEWATER FY 2027-2036 CIP
(10YR PROJECTIONS)

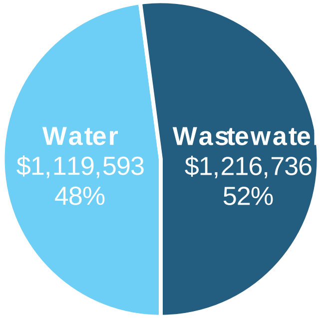
CIP Delivery Team

10 Year CIP

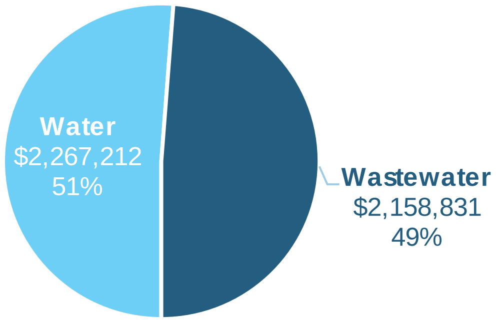


	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35	FY 36
Water	$277,274	$333,740	$227,590	$186,976	$94,018	$202,744	$236,314	$239,727	$251,146	$217,695
Wastewater	$280,900	$312,644	$257,621	$188,293	$177,272	$137,432	$112,350	$159,890	$253,232	$279,190

CIP FY 27-31 (5 Year) By System



CIP FY 27-31 (10 Year) By System



Financial figures in $1,000s and rounded

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CIP – Capital Improvement Plan | **FY** – Fiscal Year

KEY TAKEAWAYS - FY 2027-2031 CIP Discussion Draft 1

CIP Delivery Team

- FY 27-31 Discussion Draft #1 is complete
- Approach unchanged and is consistent with established methodologies
- Forecasts overall Wastewater Systems needs and Water System needs, excluding any additions on the water side for the recently discussed Comprehensive Transmission Main Renewal Strategy
- Scope and schedule decisions influenced by funding availability, systems needs, constructability, and market conditions
- To align with GLWA's 10-year FP, a Capital Spend Ratio (CSR) is proposed for select years to address:
    - Project's complexities
    - Projections uncertainty
    - Resource limitations (Vendors and GLWA)
- Comments and questions, if any, are due **November 7, 2025.**
- Board members interested in one-on-one discussions and further clarification, please feel free to contact Director El-Gamal at Dima.El-Gamal@glwater.org to schedule individual meetings.

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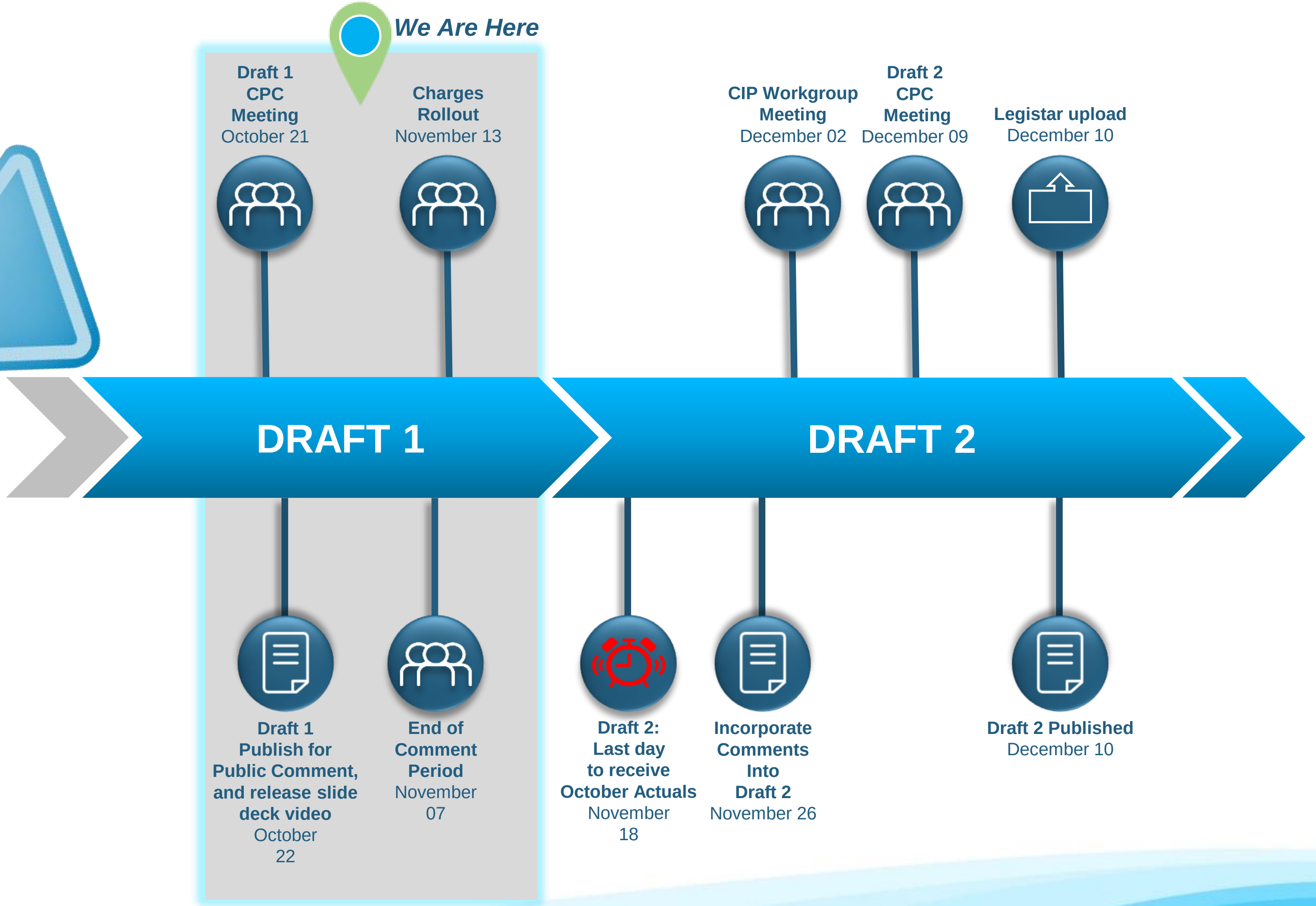
CIP – Capital Improvement Plan | **FP** – Financial Plan | **CSR** – Capital Spend Ratio | **FY** – Fiscal Year

FY 2027-2031 CIP ROADMAP - WHAT'S NEXT

CIP Delivery Team



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CPC – Capital Improvement Planning | **CIP** – Capital Improvement Plan
ELT – Executive Leadership Team | **FY** – Fiscal Year

THANK YOU

CIP Delivery Team

GLWA
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