

- Innovation
- Water MP Right Sizing
- Reliability/Redundancy
- NEWTP Repurposing

Project Status Active

CIP Type Program

Project New To CIP

Project Engineer/Manager TBD

Manager Grant Gartrell

Managing Dept Water Eng

Date Original Business Case Prepared 1/5/2018

Year Project Added to CIP 2018

Budget Water

Class Lvl 1 Water

Class Lvl 2 Programs

Class Lvl 3 Programs

Location Multiple Counties

Fund and Cost Center

Project Significance This CIP will replace roofing systems on GLWA water plants, water booster pumping stations and sewage pumping stations that were determined to need replacement over the next 5 to 7 years due to their poor condition. Replacement is needed to protect building interiors and sensitive electrical equipment.

Scope of Work Replace existing roofs with new built-up roofing systems.

Project History A condition assessment was performed and completed under Contract No. CS-1674 in 2016 that included all roofs located at GLWA's 5 water treatment plants, 19 water booster pumping stations and 11 sewage pumping stations. There were 268 separate roof sections totaling 1,682,727 square feet of roof inspected during this condition assessment project.

Related Project Contract No. CS-1674

Other Important Info The total estimated replacement value (2016 dollars) of the 1,682,727 square feet of roofing at the water treatment plants, sewage pumping stations and water booster pumping stations is \$33,142,054.

PM Weighted Score
42

Criteria	Score	Comment
Condition	5	
Efficiency and Innovation	1	
Financial	2	
O&M	3	
Performance (Service Level/Reliability)	3	
Public Benefit	1	
Public Health & Safety	1	
Regulatory (Environmental/Legal)	1	

RC Weighted Score
0

Criteria	Score	Comment
Condition		
Efficiency and Innovation		
Financial		
O&M		
Performance (Service Level/Reliability)		
Public Benefit		
Public Health & Safety		
Regulatory (Environmental/Legal)		



**GLWA FY 2020-2024 CIP
Roof Replacement - Various Water Facilities**

171500 CIP#

Phase GLWA Employees Project management

Contract NA

Status Active

Title GLWA Salaries

Phase Budget

Phase Status

Start Date

End Date

Cost Allocation

Funding Source

Fund

Useful Life >20Yrs?

Tot. Federal Loan Amount

Cost Estimation Information	
<input type="text" value="4"/>	Cost Est. Class
<input type="text" value="1/1/2016"/>	Cost Est. Date
<input type="text" value="Testing Engineers & Consult"/>	Cost Est. Source
<input type="text" value="Testing Engineers & Consult"/>	Cost Est. Prepared By

Program/Allowance Task Information

Project Manager

CIP Number

Description

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	0	0	0	0	0	0	0	0

Phase Total Expenses By FY (All figures are in \$1,000's)



**GLWA FY 2020-2024 CIP
Roof Replacement - Various Water Facilities**

171500 CIP#

Phase Design and Build

Contract NA

Status Active

Title Phase 464631552 - Roof replacement at LH-WTP, NE-WTP, WWP-WTP, Ford Road, Northwest, EastSide, Newburgh, Rochester, Schoolcraft and Ypsilanti Booster Stations

Phase Budget

Phase Status

Start Date

End Date

Cost Allocation

Funding Source

Fund

Useful Life >20Yrs?

Tot. Federal Loan Amount

Cost Estimation Information

Cost Est. Class

Cost Est. Date

Cost Est. Source

Cost Est. Prepared By

Program/Allowance Task Information

Project Manager

CIP Number

Description

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Design-Build	FY24	\$2,000			
Design-Build	FY25+	\$2,000			2020CIP

Task	Start Date	End Date	Duration
Scope Development	4/2/2022	7/1/2022	90
Procurement	7/2/2022	7/2/2023	365
Project Execution	7/3/2023	6/25/2027	1453
Project Closeout	6/26/2027	9/24/2027	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	0	0	0	0	0	2,000	2,000	4,000

Phase Total Expenses By FY (All figures are in \$1,000's)



**GLWA FY 2020-2024 CIP
Roof Replacement - Various Water Facilities**

171500 CIP#

Phase not applicable

Contract NA

Status Closed Out

Title Prior Year Actual Expenses

Phase Budget

Phase Status

Start Date

End Date

Cost Allocation

Funding Source

Fund

Useful Life >20Yrs?

Tot. Federal Loan Amount

Cost Estimation Information	
<input type="text" value="4"/>	Cost Est. Class
<input type="text" value="1/1/2016"/>	Cost Est. Date
<input type="text" value="Testing Engineers & Consult"/>	Cost Est. Source
<input type="text" value="Testing Engineers & Consult"/>	Cost Est. Prepared By

Program/Allowance Task Information

Project Manager

CIP Number

Description

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Engineering Services	FY18-	\$50			FY18

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
50								50

Phase Total Expenses By FY (All figures are in \$1,000's)



**GLWA FY 2020-2024 CIP
Roof Replacement - Various Water Facilities**

171500 CIP#

Phase Design and Build

Contract NA

Status Active

Title Phase 758522114 - Roof replacement at LH-WTP, SW-WTP, WWP-WTP, Imlay and Franklin Booster Stations

Phase Budget

Phase Status

Start Date

End Date

Cost Allocation

Funding Source

Fund

Useful Life >20Yrs?

Tot. Federal Loan Amount

Cost Estimation Information

Cost Est. Class

Cost Est. Date

Cost Est. Source

Cost Est. Prepared By

Program/Allowance Task Information

Project Manager

CIP Number

Description

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Design-Build	FY19	\$0			
Design-Build	FY20	\$2,657			

Task	Start Date	End Date	Duration
Scope Development	1/23/2018	4/23/2018	90
Procurement	4/24/2018	4/24/2019	365
Project Execution	4/25/2019	4/22/2020	363
Project Closeout	4/23/2020	7/22/2020	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	0	2,657	0	0	0	0	0	2,657

Phase Total Expenses By FY (All figures are in \$1,000's)



**GLWA FY 2020-2024 CIP
Roof Replacement - Various Water Facilities**

171500 CIP#

Phase Design and Build

Contract NA

Status Active

Title Phase 1218915073 - Roof replacement at LH-WTP, SW-WTP, WWP-WTP, Imlay Booster Station and Franklin Booster Station (1)

Phase Budget

Phase Status

Start Date

End Date

Cost Allocation

Funding Source

Fund

Useful Life >20Yrs?

Tot. Federal Loan Amount

Cost Estimation Information	
<input type="text" value="4"/>	Cost Est. Class
<input type="text" value="1/1/2016"/>	Cost Est. Date
<input type="text" value="Testing Engineers & Consult"/>	Cost Est. Source
<input type="text" value="Testing Engineers & Consult"/>	Cost Est. Prepared By

Program/Allowance Task Information

Project Manager

CIP Number

Description

Task	Start Date	End Date	Duration
Scope Development	3/31/2026	6/29/2026	90
Procurement	6/30/2026	6/30/2027	365
Project Execution	7/1/2027	6/25/2031	1455
Project Closeout	6/26/2030	9/24/2030	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	0	0	0	0	0	0	0	0

Phase Total Expenses By FY (All figures are in \$1,000's)



**GLWA FY 2020-2024 CIP
Roof Replacement - Various Water Facilities**

171500 CIP#

Phase Design and Build

Contract NA

Status Active

Title Phase 1252759899 - Roof replacement at LH-WTP, SW-WTP, Orion & North Service Center Booster Stations

Phase Budget

Phase Status

Start Date

End Date

Cost Allocation

Funding Source

Fund

Useful Life >20Yrs?

Tot. Federal Loan Amount

Cost Estimation Information

Cost Est. Class

Cost Est. Date

Cost Est. Source

Cost Est. Prepared By

Program/Allowance Task Information

Project Manager

CIP Number

Description

Task	Start Date	End Date	Duration
Scope Development	3/31/2018	6/29/2018	90
Procurement	6/30/2018	6/30/2019	365
Project Execution	7/1/2019	6/23/2023	1453
Project Closeout	6/24/2023	9/22/2023	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	0	0	0	0	0	0	0	0

Phase Total Expenses By FY (All figures are in \$1,000's)



**GLWA FY 2020-2024 CIP
Roof Replacement - Various Water Facilities**

171500 CIP#

Phase Design and Build

Contract NA

Status Active

Title Phase 1900377390 - Roof replacement at LH-WTP, SW-WTP, WWP-WTP, Imlay Booster Station and Franklin Booster Station (2)

Phase Budget

Phase Status

Start Date

End Date

Cost Allocation

Funding Source

Fund

Useful Life >20Yrs?

Tot. Federal Loan Amount

Cost Estimation Information

Cost Est. Class

Cost Est. Date

Cost Est. Source

Cost Est. Prepared By

Program/Allowance Task Information

Project Manager

CIP Number

Description

Task	Start Date	End Date	Duration
Scope Development	3/31/2030	6/29/2030	90
Procurement	6/30/2030	6/30/2031	365
Project Execution	7/1/2031	6/25/2035	1455
Project Closeout	6/26/2035	9/24/2035	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	0	0	0	0	0	0	0	0

Phase Total Expenses By FY (All figures are in \$1,000's)

Project Total Expenses By FY Compared to Prior CIPs (All figures are in \$1,000's)

CIP	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
2019	0			111	986	210	24	1,159	24,756	0	27,246
2020	0	0	50	0	2,657	0	0	0	2,000	2,000	6,707