

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No:	SE35031801
Project Name:	Aeration Basin Blower
Location:	WWTP
Department:	Utilities - Sewer
Account No:	401-3503-535-6500

Date:	06/04/22
Contact:	K Crowe
Project Start:	05/15/17
Project Complete:	01/31/23
Project Estimate:	\$ 2,038,950
Project Funding to Date:	\$ 2,038,950

Project Description/Justification:

The Aeration Basin Blower system requires a third blower to throttle aeration and as a back up for redundancy.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Construction	\$ 2,038,950						
Total	\$ 2,038,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,038,950

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27
Sewer	\$ 1,569,990					
Navy	\$ 468,960					
Total	\$ 2,038,950	\$ -	\$ -	\$ -	\$ -	\$ -

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No:	SE35031802
Project Name:	Forcemain Fleming Key
Location:	Fleming Key Bridge
Department:	Utilities - Sewer
Account No:	401-3503-535-6500

Date:	06/04/22
Contact:	K Crowe
Project Start:	11/01/17
Project Complete:	01/31/24
Project Estimate:	\$ 8,465,212
Project Funding to Date:	\$ 2,330,000

Project Description/Justification:

This project relocates the influent force main over the Fleming Key bridget to under the bridge to mitigate the risk of a broken main if damage were to occur to the bridge in hurricane like events or boat strikes.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design	\$ 1,250,000						
Construction	\$ 7,215,212						
Total	\$ 8,465,212	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,465,212

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer	\$ 2,402,945						
Navy	\$ 717,763						
Grant	\$ 5,344,504						
Total	\$ 8,465,212	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,465,212

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: SE35042002
Project Name: WWTP Switchgear
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 06/04/22
Contact: K Crowe
Project Start: 10/01/22
Project Complete: 12/31/23
Project Estimate: \$ 3,139,650
Project Funding to Date: \$ 2,739,650

Project Description/Justification:

Replacement of WWTP switchgear which is a critical component in transferring power supply from the generator. The existing switchgear is over 30 years old and needs to be upgraded to be compatible with other components being installed with the system.

Reasons for Funding Modification (if applicable):

Construction PO was about \$100k higher than the budgeted amount. Staff anticipates an additional \$400k change order due to unforeseen conditions related to the existing electrical layout not matching the record drawings.

Operating Impact:

Related Projects:

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Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design	\$ 228,650						
Construction	\$ 2,511,000	\$ 400,000					
Total	\$ 2,739,650	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 3,139,650

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer	\$ 2,109,531	\$ 372,000					
Navy	\$ 630,120	\$ 28,000					
Total	\$ 2,739,650	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 3,139,650

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No:	SE35042004
Project Name:	Ferric Tank Replacement
Location:	WWTP
Department:	Sewer
Account No:	401-3504-535-6500

Date:	<u>06/04/22</u>
Contact:	<u>K Crowe</u>
Project Start:	<u>10/01/19</u>
Project Complete:	<u>12/31/22</u>
Project Estimate:	<u>\$ 263,000</u>
Project Funding to Date:	<u>\$ 263,000</u>

Project Description/Justification:

The 2 Ferric tanks at the plant are crucial for treatment operations. The tanks are 30 years old. One has corroded through and is no longer operational. They both need to be removed and replaced.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design	\$ -						
Construction	\$ 263,000						
Total	\$ 263,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 263,000

Funding Source Summary

Phase	Funded	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27
401	\$ 202,500					
Navy	\$ 60,500					
Total	\$ 263,000	\$ -	\$ -	\$ -	\$ -	\$ -

\$ 263,000

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: SE35042006
Project Name: Solids Dewatering
Location: WWTP
Department: Utilities - Sewer
Account No: 401-3504-535-6500

Date: 06/04/22
Contact: K Crowe
Project Start: 07/01/20
Project Complete: 12/31/23
Project Estimate: \$ 3,100,000
Project Funding to Date: \$ 3,100,000

Project Description/Justification:

the filter belt presses that dewater the sludge at the WWTP are original to the plant and are in need of replacement.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design	\$ 261,200						
Construction		\$ 2,838,800					
Total	\$ 261,200	\$ 2,838,800	\$ -	\$ -	\$ -	\$ -	\$ 3,100,000

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer	\$ 2,387,000						
Navy	\$ 713,000						
Total	\$ 3,100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,100,000

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: SE35042101
Project Name: SCADA Upgrades
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 06/04/22
Contact: K Crowe
Project Start: 10/01/20
Project Complete: 08/15/22
Project Estimate: \$ 100,000
Project Funding to Date: \$ 100,000

Project Description/Justification:

Supervisory Control and Data Acquisition is computer system that gathers and analyzes data in real time. This is how the various probes, meters, pumps, and controls talk to each other and send information to plant operators. The system needs considerable updates and additions to keep the plant data current.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

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Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design							
Construction	\$ 100,000						
Total	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer	\$ 77,000						
Navy	\$ 23,000						
Total	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: SE35042102
Project Name: RAS WAS Pump and Valve Replacement
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date:	06/04/22
Contact:	K Crowe
Project Start:	10/01/20
Project Complete:	03/31/24
Project Estimate:	\$ 1,592,850
Project Funding to Date:	\$ 1,592,850

Project Description/Justification:

Replace the Return Activated Sludge and Waste Activated Sludge pumps and valves which are original to the plant and over 20 years old. They are passed their useful life.

Reasons for Funding Modification (if applicable):

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Operating Impact:

Related Projects:

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Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design	\$ 148,000						
Construction	\$ 1,444,850						
Total	\$ 1,592,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,592,850

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer	\$ 1,226,495						
Navy	\$ 366,355						
Total	\$ 1,592,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,592,850

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No:	SE35042103
Project Name:	Compost Facility
Location:	WWTP
Department:	Utilities - Sewer
Account No:	401-3504-535-6500

Date:	06/04/22
Contact:	JP Castro
Project Start:	07/01/20
Project Complete:	12/31/26
Project Estimate:	\$ 5,800,000
Project Funding to Date:	\$ 300,000

Project Description/Justification:

A new compost facility would allow the City to use the solids from the plant and yard waste from the community to make high end compost. The facility requires multiple drying structures, fans and blowers for odor control, and considerable grade work.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Planning	\$ 300,000						
Total	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer	\$ 231,000						
Navy	\$ 69,000						
Total	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Funding Source Summary

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: TBD
Project Name: Aeration Basin Permanent Repair
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 06/04/22
Contact: K Crowe
Project Start: 10/01/21
Project Complete: 09/30/23
Project Estimate: \$ 300,000
Project Funding to Date: \$ -

Project Description/Justification:

Develop design for a permanent repair to the second aeration basin. Temporary repairs have been made and the basin has been periodically dewatered for repair activity. Both aeration basins need to be in operation to process full flow capacity which is critical in the rainy season.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design		\$ 300,000					
Construction							
Total	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer		\$ 231,000					
Navy		\$ 69,000					
Total	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: TBD
Project Name: Asset Management System
Location: Sewer Collections
Department: 401 Sewer
Account No: 401-3503-535-6500

Date: 06/04/22
Contact: K Crowe
Project Start: 10/01/23
Project Complete: 12/31/24
Project Estimate: \$ 250,000
Project Funding to Date: \$ -

Project Description/Justification:

Procure a consultant to for the development of a detailed asset management system. The system is expected to allow staff to log and monitor critical details of the sewer infrastructure in real time through the use of tablets. The information would be used to help schedule and prioritize replacements and upgrades to the system.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design			\$ 250,000				
Construction							
Total	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer			\$ 232,500				
Navy			\$ 17,500				
Total	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: TBD
Project Name: Clarifier Permanent Repair
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 06/04/22
Contact: K Crowe
Project Start: 10/01/21
Project Complete: 09/30/23
Project Estimate: \$ 300,000
Project Funding to Date: \$ -

Project Description/Justification:

Develop design for a permanent repair to the second clarifier. Temporary repairs have been made and the clarifier has been periodically dewatered for repair activity. Both clarifiers need to be in operation to process full flow capacity which is critical in the rainy season.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design		\$ 300,000					
Construction							
Total	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer		\$ 231,000					
Navy		\$ 69,000					
Total	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: TBD
Project Name: Deep Well Valve Replacement
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 06/04/22
Contact: K Crowe
Project Start: 10/01/21
Project Complete: 12/31/23
Project Estimate: \$ 200,000
Project Funding to Date: \$ -

Project Description/Justification:

Replacement of one deep injection well valve. The existing valve is approaching the end of its useful life.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design		\$ 40,000					
Construction		\$ 160,000					
Total	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer		\$ 154,000					
Navy		\$ 46,000					
Total	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: TBD
Project Name: Pump Station A Upgrades
Location: Sewer Collections
Department: 401 Sewer
Account No: 401-3503-535-6500

Date: 06/04/22
Contact: K Crowe
Project Start: 10/01/21
Project Complete: 12/31/23
Project Estimate: \$ 325,000
Project Funding to Date: \$ -

Project Description/Justification:

Upgrades to Pump Station A to be compliant with current codes and regulations.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design		\$ 50,000					
Construction		\$ 275,000					
Total	\$ -	\$ 325,000	\$ -	\$ -	\$ -	\$ -	\$ 325,000

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer		\$ 302,250					
Navy		\$ 22,750					
Total	\$ -	\$ 325,000	\$ -	\$ -	\$ -	\$ -	\$ 325,000

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: TBD
Project Name: Pump Station R Upgrades
Location: Sewer Collections
Department: 401 Sewer
Account No: 401-3503-535-6500

Date: 06/04/22
Contact: K Crowe
Project Start: 10/01/22
Project Complete: 12/31/23
Project Estimate: \$ 500,000
Project Funding to Date: \$ -

Project Description/Justification:

Upgrades to Pump Station R to be compliant with current codes and regulations. Rehabilitate control panel and appurtenances.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design		\$ 75,000					
Construction		\$ 425,000					
Total	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer		\$ 465,000					
Navy		\$ 35,000					
Total	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: TBD
Project Name: Sanitary Sewer Master Plan
Location: Sewer Collections
Department: 401 Sewer
Account No: 401-3503-535-6500

Date: 06/04/22
Contact: K Crowe
Project Start: 10/01/21
Project Complete: 12/31/23
Project Estimate: \$ 350,000
Project Funding to Date: \$ -

Project Description/Justification:

Development of a Sanitary Sewer Master Plan. The plan will produce a multi-year capital improvement plan that prioritizes projects based on established criteria. The plan is expected to an important tool to analyze and develop projects to mitigate issues such as inflow and infiltration in addition to planned upgrades and replacements of critical infrastructure. The plan will also help staff develop multi-year budgets to help better forecast changes in rates and evaluate alternate funding options.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design		\$ 350,000					
Construction							
Total	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer		\$ 325,500					
Navy		\$ 24,500					
Total	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000

CITY OF KEY WEST
FY 22/23 CIP PROJECT DETAIL

Project No: TBD
Project Name: UV System Upgrades
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 06/04/22
Contact: K Crowe
Project Start: 10/01/22
Project Complete: 09/30/23
Project Estimate: \$ 300,000
Project Funding to Date: \$ -

Project Description/Justification:

Upgrades to Ultraviolet light treatment sytem. Current system is entering the end of it's useful life. This system is critical in the final phase of treatment prior to discharge.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Design		\$ 40,000					
Construction		\$ 260,000					
Total	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Funding Source Summary

Phase	Committed	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	
Sewer		\$ 231,000					
Navy		\$ 69,000					
Total	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000