

Attachment A - FKAA 20006 CIP and FKAA 2015 Budget Summaries

2015 Budget

STRATEGIC GOALS, INITIATIVES AND IMPLEMENTATION STRATEGIES

Our strategic goals define what we seek to accomplish to fulfill FKAA's vision. They reflect the unique challenges that FKAA faces as provider of water services for the Florida Keys. These goals simultaneously address infrastructure needs, opportunities to enhance customer services, and responsibilities for stewardship of our environmental resources:

1. Develop a sustainable utility and related infrastructure
2. Proactive public outreach and superior customer service
3. Enhance employee communication and development
4. Financial optimization
5. Maximize energy efficiency
6. Optimize utility operations and treatment

Our approach to accomplishing these goals is framed by the institutional and legal position as a Special District of the State of Florida.

System Overview

- • 23.79 mgd lime softening water treatment plant
- • 6 mgd brackish water reverse osmosis plant
- • 2 seawater reverse osmosis plants (3mgd total capacity)
- • 187 miles of steel and ductile iron transmission main (18"-36") at up to 250 psi
- • 6 transmission booster and back pump stations
- • 43 bridge crossings
- • 49.4 mg capacity in 34 storage tanks
- • 690 miles of potable water distribution main at up to 55 psi
- • 19 distribution pump stations
- • 5 wastewater treatment plants
- • 49 miles of wastewater collection and force main lines
- • 75,800 feet of reclaimed distribution water lines

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2015 Budget

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Our strategic goals define what we seek to accomplish to fulfill FKAA's vision. They reflect the unique challenges that FKAA faces as provider of water services for the Florida Keys. These goals simultaneously address infrastructure needs, opportunities to enhance customer services, and responsibilities for stewardship of our environmental resources:

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- • 6 transmission booster and back pump stations
- • 43 bridge crossings
- • 49.4 mg capacity in 34 storage tanks
- • 690 miles of potable water distribution main at up to 55 psi
- • 19 distribution pump stations
- • 5 wastewater treatment plants
- • 49 miles of wastewater collection and force main lines
- • 75,800 feet of reclaimed distribution water lines

FIVE YEAR FINANCIAL PLAN, CONTINUED

FOR FISCAL YEARS 2015-2019

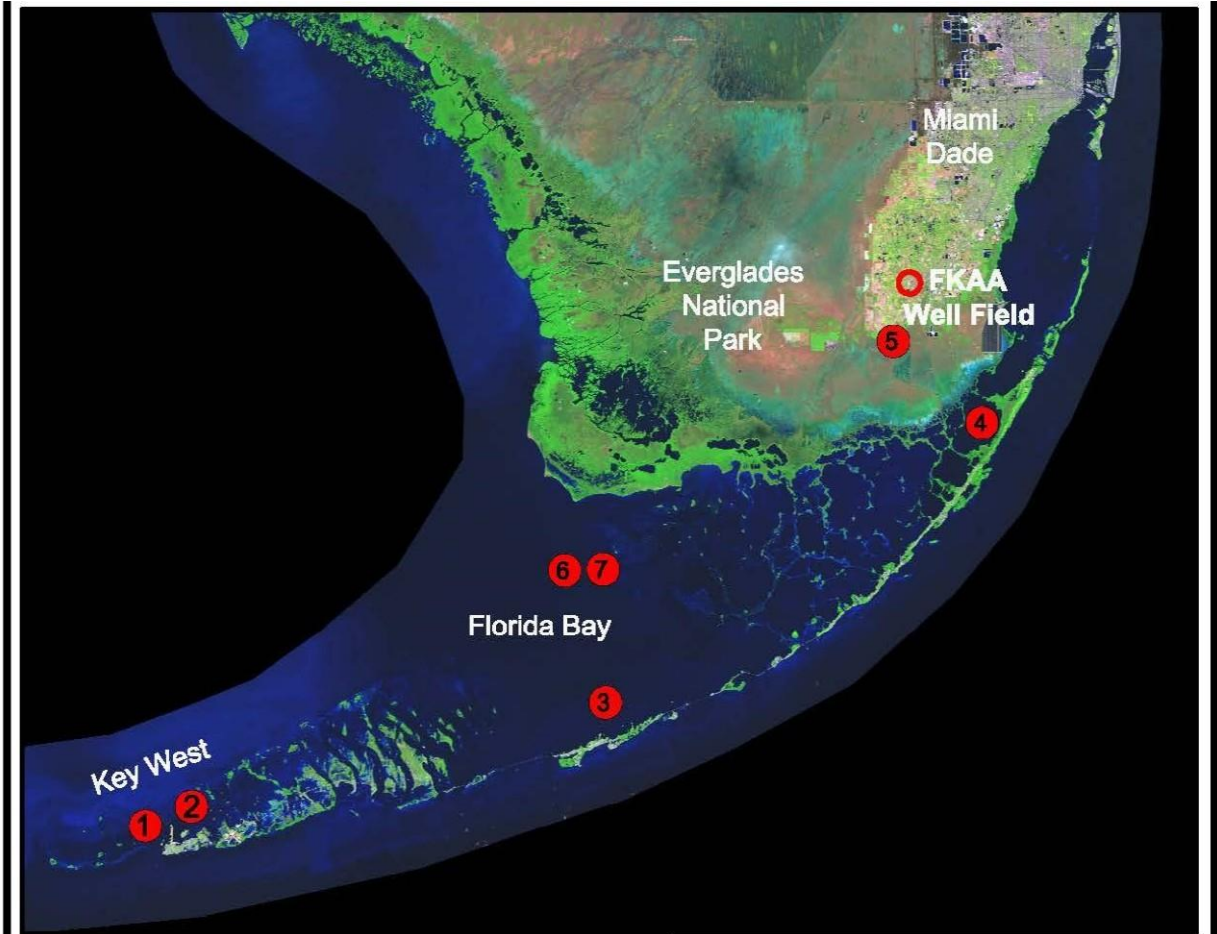
FIVE YEAR CAPITAL IMPROVEMENT AND CAPITAL FINANCING PLAN

Description	\$2,015	\$2,016	\$2,017	\$2,018	\$2,019	Estimated five-year expenditures
Ongoing and critical projects						
Distribution replacement	4,300,000	2,100,000	2,100,000	2,100,000	-	10,600,000
Stock Island tank repair	250,000	-	-	-	-	250,000
Transmission line bridge crossing at C-111 canal	800,000	800,000	-	-	-	1,600,000
High service pump station improvements	400,000	-	-	-	-	400,000
Navy projects						
Replace piping at Sigsbee Park	-	-	-	550,000	-	550,000
Replace piping at Boca Chica	215,000	350,000	-	-	-	565,000
Demo/Replace water storage tank - C69 Trumbo Point	-	200,000	550,000	-	-	750,000
Replace piping,hydrants, meters at Trumbo Point	-	-	585,000	100,000	-	685,000
Projects with dedicated funding sources						
Key Haven collection system improvements	2,900,000	1,000,000	-	-	-	3,900,000
Layton wastewater collection system expansion (East Long Key)	-	150,000	100,000	-	-	250,000
Priority but non-critical projects						
Florida City 5 mg storage tank	-	2,600,000	2,600,000	-	-	5,200,000
Marathon 4 mg storage tank	50,000	4,100,000	-	-	-	4,150,000
Land Purchase -N and W of Florida City WTP	-	1,000,000	1,000,000	-	-	2,000,000
Distribution pump station Cudjoe and Islamoada	-	100,000	1,500,000	1,500,000	-	3,100,000
Marathon service buildings	-	100,000	500,000	-	-	600,000
Total	\$ 8,915,000	\$ 12,500,000	\$ 8,935,000	\$ 4,250,000	\$ -	\$ 34,600,000
Funding sources						
Ongoing and critical projects funded from rates and cash on hand	\$ 5,750,000	\$ 2,900,000	\$ 2,100,000	\$ 2,100,000	\$ -	\$ 12,850,000
Navy projects paid through Navy rate	215,000	550,000	1,135,000	650,000	-	2,550,000
Other projects with dedicated revenue sources	2,900,000	1,150,000	100,000	-	-	4,150,000
Priority but non-critical projects funded through rates and cash on hand	50,000	7,900,000	5,600,000	1,500,000	-	15,050,000
Total	\$ 8,915,000	\$ 12,500,000	\$ 8,935,000	\$ 4,250,000	\$ -	\$ 34,600,000
Cash reserved for projects under contract	\$ 4,550,000					
Unspent bond funds available for distribution	<u>1,914,000</u>					
Total funded projects	<u>\$ 6,464,000</u>					

PROJECT SUMMARIES

FOR FISCAL YEAR 2015

.....-- Florida Keys Aqueduct Authority Projects-----



-----Project

l Stock Island Tank Repair	a High Service Pump w Station Improvements
e Key Haven Collection System Improvements	a Distribution Replacement- - Various Subdivisions
e Marathon 4 mg Storage Tank	e Navy Projects
a Transmission line Bridge w Crossing at C-111 canal	

DISTRIBUTION REPLACEMENT

DISTRIBUTION SYSTEM

Project Information

Location	Various
Project Type	Replacement
Category	Distribution System Upgrade
Project Number	Various
Design Engineer	In-house Design Team
Project Manager	Several assignments to staff engineers
Contractor	In-house crew and several contractors
Start Date	Ongoing
Completion Date	Ongoing
Funding	Rates
Facilities Master Plan Project	Yes



Description/Justification:

Replacement of several sections of pipes and ancillary components of the water distribution system throughout the entire service area that have reached the end of their useful life and are now prone to unpredictable failure. The five-year costs below include projects that may need to be accelerated due to Florida Department of Transportation and municipal wastewater projects that are scheduled to take place in same rights-of-way.

Status/Recent Developments:

Several distribution system upgrades are currently being designed and constructed for execution following careful evaluation of the cost benefit analysis and prioritization of projects.

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 4,300,000	\$ 2,100,000	\$2,100,000	\$2,100,000	\$ -	\$10,600,000
Total Costs	\$ 4,300,000	\$ 2,100,000	\$2,100,000	\$2,100,000	\$ -	\$10,600,000

Operating Impact:

	Annual Operating Costs (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs	-	-	-	-	-	-
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

STOCK ISLAND TANK REPAIR

REPAIR & REPLACEMENT

Project Information

Location	Stock Island
Project Type	Repair Roof and Flooring
Category	Storage
Project Number	To be determined
Design Engineer	Team Engineering
Project Manager	Ray Shimokubo
Contractor	Acerblom
Start Date	Mar-14
Completion Date	Oct-14
Bond Funded	No
Facilities Master Plan Project	No



Description/Justification:

Stock Island storage tank 3 experienced structural failure from a pressure drop in 2013. Design and bidding were completed in 2013 to repair and improve this facility. The contractor was given Notice to Proceed with these improvements in early 2014 with completion later this year.

Status/Recent Developments:

Construction is approximately 60% complete.

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000
Total Costs	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Operating Impact:

	Annual Operating Cost (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs	-	-	-	-	-	-
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

TRANSMISSION LINE BRIDGE CROSSING AT C-111 CANAL

TRANSMISSION

Project Information

Location	18-mile stretch
Project Type	Reliability
Category	Transmission
Project Number	To be determined
Design Engineer	None selected
Project Manager	Tom Walker
Contractor	None selected
Start Date	15-Feb
Completion Date	16-Feb
Bond Funded	None selected
Facilities Master Plan Project	Yes



Description/Justification:

The 36" water transmission main is an extremely critical part of FCAA's infrastructure. It crosses under the C-111 canal (lower peninsula) as a submerged pipeline section; one of only two remaining under deep waterways on the entire transmission system. To increase reliability and reduce system vulnerability, a parallel pipe is planned to be constructed along the outside of the US1 bridge which crosses the canal at this location.

Status/Recent Developments:

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 800,000	\$ 800,000	\$ -	\$ -	\$ -	\$ 1,600,000
Total Costs	\$ 800,000	\$ 800,000	\$ -	\$ -	\$ -	\$ 1,600,000

Operating Impact:

	Annual Operating Cost (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)						
Personal Services Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

HIGH SERVICE PUMP STATION IMPROVEMENTS

RENEWAL & REPLACEMENT

Project Information

Location	Water Treatment Plant Florida City
Project Type	Capital Improvement
Category	Renewal and Replacement
Project Number	3218-13
Design Engineer	In house design
Project Manager	Ray Shimokubo
Contractor	Globealtech
Start Date	2014
Completion Date	2015
Bond Funded	No
Facilities Master Plan Project	Yes



Description/Justification:

Information forthcoming

Status/Recent Developments:

Input information

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000
Total Costs	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000

Operating Impact:

	Annual Operating Cost (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs	-	-	-	-	-	-
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

US Navy Distribution System upgrades

DISTRIBUTION SYSTEM

Project Information

Location	Navy properties in lower Keys
Project Type	Navy Improvements
Category	Distribution system upgrades
Project Number	8000-00
Design Engineer	In-house Design Team
Project Manager	Associate Engineer-Compliance and Planning
Contractor	In-house crew and others
Start Date	2008
Completion Date	Ongoing
Funding	Revenue from Navy contract
Facilities Master Plan Project	No



Description/Justification:

The Authority entered into a contract in January 2008 to own and operate the Navy's water distribution systems in the Keys. Many of the lines are reaching end of life, water tanks need maintenance and valves and other infrastructure is lacking. Revenue from the Navy includes funding for renewal and replacement that will be sufficient to fund these upgrades .

- Replace piping at Sigsbee Park
- Replace piping at Boca Chica
- Demo/replace water storage tank-C69 Trumbo Point

Status/Recent Developments:

Ongoing through 2018.

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 215,000	\$ 550,000	\$ 1,135,000	\$ 650,000	\$ -	\$ 2,550,000
Total Costs	\$ 215,000	\$ 550,000	\$ 1,135,000	\$ 650,000	\$ -	\$ 2,550,000

Operating Impact:

	Annual Operating Costs (Savings)					Total
	2015	2016	2017	2017	2018	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs	-	-	-	-	-	-
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

KEY HAVEN COLLECTION SYSTEM IMPROVEMENTS

COLLECTION AND TREATMENT

Project Information

Location	Key Haven Subdivision
Project Type	Capital Improvement
Category	Renewal and Replacement
Project Number	4034-09
Design Engineer	Don Hubbs/Chen & Associates
Project Manager	Don Hubbs
Contractor	To be determined
Start Date	To be determined
Completion Date	To be determined
Bond Funded	Assessment
Facilities Master Plan Project	Yes



Description/Justification:

The Key Haven wastewater district has been cleaned and video assessed since its acquisition. A capital improvement list has been developed and plans for sewer system improvements and wastewater flow redirection are being developed for the assembly of an assessment role. The project is intended to reduce inflow and infiltration in the system and reduce operating costs

Status/Recent Developments:

Design plans are being developed.

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$2,900,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 3,900,000
Total Costs	\$2,900,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 3,900,000

Operating Impact:

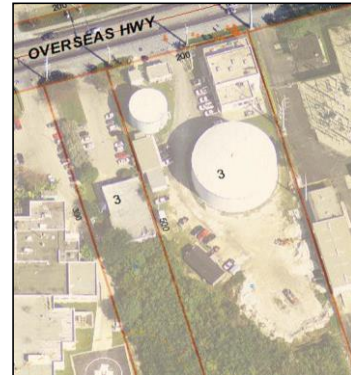
	Annual Operating Cost (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs	-	(1,500)	(3,000)	(3,000)	-	(7,500)
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ (1,500)	\$ (3,000)	\$ (3,000)	\$ -	\$ (7,500)

MARATHON 4 MG STORAGE TANK

RENEWAL & REPLACEMENT

Project Information

Location	Marathon Booster Pump Station
Project Type	Capital Improvement
Category	Renewal and Replacement
Project Number	To Be Determine
Design Engineer	To Be Determine
Project Manager	To Be Determine
Contractor	To Be Determine
Start Date	May-15
Completion Date	Sep-16
Bond Funded	Rates
Facilities Master Plan Project	Yes



Description/Justification:

There is an existing 3.0 Million Gallon (MG) concrete tank located at the Marathon Booster Pump Station that was built in 1974. The 3.0 MG tank is used for both distribution supply and emergency events that require back-pumping water from the tank to transmission pipeline. During the tank inspection in 2010, the tank was noted to be in fair condition with numerous settling cracks along with indications of leakage. Subsequently, repairs were made to the tank, but there are indications that leakage is still occurring. This proposed project will replace the 3MG tank with a 4MG tank providing additional storage for distribution supply and emergency events.

Status/Recent Developments:

Not yet underway

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 50,000	\$ 4,100,000	\$ -	\$ -	\$ -	\$ 4,150,000
Total Costs	\$ 50,000	\$ 4,100,000	\$ -	\$ -	\$ -	\$ 4,150,000

Operating Impact:

	Annual Operating Cost (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs						
Other Operating Costs						

DISTRIBUTION REPLACEMENT

DISTRIBUTION SYSTEM

Project Information

Location	Various
Project Type	Replacement
Category	Distribution System Upgrade
Project Number	Various
Design Engineer	In-house Design Team
Project Manager	Several assignments to staff engineers
Contractor	In-house crew and several contractors
Start Date	Ongoing
Completion Date	Ongoing
Funding	Rates
Facilities Master Plan Project	Yes



Description/Justification:

Replacement of several sections of pipes and ancillary components of the water distribution system throughout the entire service area that have reached the end of their useful life and are now prone to unpredictable failure. The five-year costs below include projects that may need to be accelerated due to Florida Department of Transportation and municipal wastewater projects that are scheduled to take place in same rights-of-way.

Status/Recent Developments:

Several distribution system upgrades are currently being designed and constructed for execution following careful evaluation of the cost benefit analysis and prioritization of projects.

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 4,300,000	\$ 2,100,000	\$2,100,000	\$2,100,000	\$ -	\$10,600,000
Total Costs	\$ 4,300,000	\$ 2,100,000	\$2,100,000	\$2,100,000	\$ -	\$10,600,000

Operating Impact:

	Annual Operating Costs (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs	-	-	-	-	-	-
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

STOCK ISLAND TANK REPAIR

REPAIR & REPLACEMENT

Project Information

Location	Stock Island
Project Type	Repair Roof and Flooring
Category	Storage
Project Number	To be determined
Design Engineer	Team Engineering
Project Manager	Ray Shimokubo
Contractor	Acerblom
Start Date	Mar-14
Completion Date	Oct-14
Bond Funded	No
Facilities Master Plan Project	No



Description/Justification:

Stock Island storage tank 3 experienced structural failure from a pressure drop in 2013. Design and bidding were completed in 2013 to repair and improve this facility. The contractor was given Notice to Proceed with these improvements in early 2014 with completion later this year.

Status/Recent Developments:

Construction is approximately 60% complete.

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000
Total Costs	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Operating Impact:

	Annual Operating Cost (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs	-	-	-	-	-	-
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

TRANSMISSION LINE BRIDGE CROSSING AT C-111 CANAL

TRANSMISSION

Project Information

Location	18-mile stretch
Project Type	Reliability
Category	Transmission
Project Number	To be determined
Design Engineer	None selected
Project Manager	Tom Walker
Contractor	None selected
Start Date	15-Feb
Completion Date	16-Feb
Bond Funded	None selected
Facilities Master Plan Project	Yes



Description/Justification:

The 36" water transmission main is an extremely critical part of FCAA's infrastructure. It crosses under the C-111 canal (lower peninsula) as a submerged pipeline section; one of only two remaining under deep waterways on the entire transmission system. To increase reliability and reduce system vulnerability, a parallel pipe is planned to be constructed along the outside of the US1 bridge which crosses the canal at this location.

Status/Recent Developments:

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 800,000	\$ 800,000	\$ -	\$ -	\$ -	\$ 1,600,000
Total Costs	\$ 800,000	\$ 800,000	\$ -	\$ -	\$ -	\$ 1,600,000

Operating Impact:

	Annual Operating Cost (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs	-	-	-	-	-	-
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

HIGH SERVICE PUMP STATION IMPROVEMENTS

RENEWAL & REPLACEMENT

Project Information

Location	Water Treatment Plant Florida City
Project Type	Capital Improvement
Category	Renewal and Replacement
Project Number	3218-13
Design Engineer	In house design
Project Manager	Ray Shimokubo
Contractor	Globealtech
Start Date	2014
Completion Date	2015
Bond Funded	No
Facilities Master Plan Project	Yes



Description/Justification:

Information forthcoming

Status/Recent Developments:

Input information

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000
Total Costs	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000

Operating Impact:

	Annual Operating Cost (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs	-	-	-	-	-	-
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

US Navy Distribution System upgrades

DISTRIBUTION SYSTEM

Project Information

Location	Navy properties in lower Keys
Project Type	Navy Improvements
Category	Distribution system upgrades
Project Number	8000-00
Design Engineer	In-house Design Team
Project Manager	Associate Engineer-Compliance and Planning
Contractor	In-house crew and others
Start Date	2008
Completion Date	Ongoing
Funding	Revenue from Navy contract
Facilities Master Plan Project	No



Description/Justification:

The Authority entered into a contract in January 2008 to own and operate the Navy's water distribution systems in the Keys. Many of the lines are reaching end of life, water tanks need maintenance and valves and other infrastructure is lacking. Revenue from the Navy includes funding for renewal and replacement that will be sufficient to fund these upgrades.

- Replace piping at Sigsbee Park
- Replace piping at Boca Chica
- Demo/replace water storage tank-C69 Trumbo Point

Status/Recent Developments:

Ongoing through 2018.

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 215,000	\$ 550,000	\$ 1,135,000	\$ 650,000	\$ -	\$ 2,550,000
Total Costs	\$ 215,000	\$ 550,000	\$ 1,135,000	\$ 650,000	\$ -	\$ 2,550,000

Operating

Impact:

	Annual Operating Costs (Savings)					Total
	2015	2016	2017	2017	2018	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs	-	-	-	-	-	-
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

KEY HAVEN COLLECTION SYSTEM IMPROVEMENTS

COLLECTION AND TREATMENT

Project Information

Location	Key Haven Subdivision
Project Type	Capital Improvement
Category	Renewal and Replacement
Project Number	4034-09
Design Engineer	Don Hubbs/Chen & Associates
Project Manager	Don Hubbs
Contractor	To be determined
Start Date	To be determined
Completion Date	To be determined
Bond Funded	Assessment
Facilities Master Plan Project	Yes



Description/Justification:

The Key Haven wastewater district has been cleaned and video assessed since its acquisition. A capital improvement list has been developed and plans for sewer system improvements and wastewater flow redirection are being developed for the assembly of an assessment role. The project is intended to reduce inflow and infiltration in the system and reduce operating costs

Status/Recent Developments:

Design plans are being developed.

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$2,900,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 3,900,000
Total Costs	\$2,900,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 3,900,000

Operating Impact:

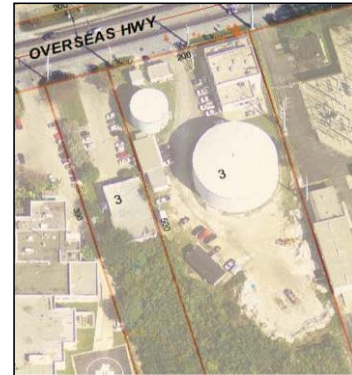
	Annual Operating Cost (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs	-	(1,500)	(3,000)	(3,000)	-	(7,500)
Other Operating Costs	-	-	-	-	-	-
Total Operating Costs	\$ -	\$ (1,500)	\$ (3,000)	\$ (3,000)	\$ -	\$ (7,500)

MARATHON 4 MG STORAGE TANK

RENEWAL & REPLACEMENT

Project Information

Location	Marathon Booster Pump Station
Project Type	Capital Improvement
Category	Renewal and Replacement
Project Number	To Be Determine
Design Engineer	To Be Determine
Project Manager	To Be Determine
Contractor	To Be Determine
Start Date	May-15
Completion Date	Sep-16
Bond Funded	Rates
Facilities Master Plan Project	Yes



Description/Justification:

There is an existing 3.0 Million Gallon (MG) concrete tank located at the Marathon Booster Pump Station that was built in 1974. The 3.0 MG tank is used for both distribution supply and emergency events that require back-pumping water from the tank to transmission pipeline. During the tank inspection in 2010, the tank was noted to be in fair condition with numerous settling cracks along with indications of leakage. Subsequently, repairs were made to the tank, but there are indications that leakage is still occurring. This proposed project will replace the 3MG tank with a 4MG tank providing additional storage for distribution supply and emergency events.

Status/Recent Developments:

Not yet underway

Financial Information

Capital Funding:

	Five Year Plan					Total Cost
	2015	2016	2017	2018	2019	
Capital Engineering & Construction Costs	\$ 50,000	\$ 4,100,000	\$ -	\$ -	\$ -	\$ 4,150,000
Total Costs	\$ 50,000	\$ 4,100,000	\$ -	\$ -	\$ -	\$ 4,150,000

Operating Impact:

	Annual Operating Cost (Savings)					Total
	2015	2016	2017	2018	2019	
New Personnel (FTEs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Personal Services Costs						
Other Operating Costs						