

# Utility Renewal & Replacement

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## Wastewater - Sanitary Sewer Manhole Rehabilitation [02-828]

This project involves the rehabilitation of deteriorated brick manholes located throughout the City. Rehabilitation consists of covering the interior surfaces with an adhesive, non-permeable material. 108 manholes were lined in FY15 and FY16. Citywide there are 4,400 manholes.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Steve Almyda

**Phase:** Construction

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$3,106,598.91

**FY 2020** \$377,282.00

**Progress the month of:** February, 2020

All the manholes have been completed for the year. A total of 45 manholes.

**Next Months Goals:**

Contractor completing the next batch of manholes is our goal.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	N/A					100
Construction	Intercounty Engineering				171336	100

**Design PO's:**

**Construction PO's:**

Purchase Order	Company	Paid to date	Purchase Order Total
171336	INTERCOUNTY ENGINEERING INC	\$114,630.00	\$120,000.00

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process

**Wastewater - Compliance Status Study [04-869]**

This project involved the preparation of Capacity, Management, Operation and Maintenance (CMOM) Study of the City’s sanitary sewer system to assure compliance with EPA requirements. At the November 9, 2004 meeting, the City Commission authorized Chen and Associates to prepare the study in the amount of \$37,200. The study was completed in the third quarter of fiscal year 2005. Department is in the process of implementing the recommendations.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Complete

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$207,310.54

**FY 2020** \$13,963.00

**Progress the month of:** February,2020

An assessment was completed and sent to contractor for inclusion in the Wastewater Masterplan. The project will be completed by performing a CMOM (Capacity Management Operations and Maintenance) self assessment and correcting any deficiencies. These findings were incorporated into the Wastewater System Masterplan and a priority list for projects developed. A meeting was held in June to prioritize the tasks/projects and implement a process improvement team accomplish the project requirements.

**Next Months Goals:**

Continuation of meeting to prioritize components, develop a time table for implementation and develop an estimate of cost/resources for the tasks and projects.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	Chen-Moore and Associates, Inc.	2009-2010	1/1/2009	10/1/2010	292078	0
Construction	N/A	NA				0

**Design PO's:**

Purchase Order	Company	Paid to date	Purchase Order Total
292078	CHEN MOORE & ASSOCIATES INC	\$89,865.00	\$89,865.00

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process
Quality and Affordable Services	1.0 Safety	1.6. Improve stormwater disposal and treatment process

### Wastewater - Collection Re-Lining [04-870]

This annual CIP allows for relining sanitary sewer gravity mains throughout the City to minimize infiltration of groundwater. Wherever possible, this is accomplished through trenchless methods. However, from time to time, open cut point repairs are appropriate.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Steve Almyda

**Phase:** Design

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$8,805,900.10

**FY 2020** \$987,005.00

**Progress the month of:** February,2020

Insituform is currently working on the final phase of laterals for the year. All the gravity main lining is completed.

**Next Months Goals:**

We are expecting to be completed for the year if all the laterals are done this month.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	N/A					0
Construction	Insituform	ongoing			163578	90

**Design PO's:**

**Construction PO's:**

Purchase Order	Company	Paid to date	Purchase Order Total
163578	INSITUFORM TECHNOLOGIES INC	\$700,000.00	\$700,000.00

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process

**Water Treatment Plant - Maintenance [05-886]**

This project includes various maintenance, rehabilitation, replacement and operational enhancements to the existing water treatment plant and membrane plant. Sub projects include, security, chemical feed system repairs, replacement and installations, electrical switch gear maintenance, rehabilitation and replacement.

**Managing Department:** Engineering, Utilities (WS or SW)

**Project Manager:** Phil Hyer

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$4,669,905.21

**FY 2020** \$684,384.00

**Progress the month of:** February,2020

Provided DEP request for additional information. And received approval for 90 day pilot testing under specific conditions. Requested and received quote for temporary chemical feed storage and feed system, entered requisition for PO.

Electrical Switchgear Maintenance vendor continued inspection of Plant switchgear of 4160 VAC HS 1-4 Motor Control Center (MCC). Performed maintenance as needed. Performed infra red testing of 4160 VAC switchgear at HS 5 & 6 / Generator Bldg.

Staff continued semi annual fuel polishing on all emergency diesel generators and high service pumps. Performing this procedure ensures clean reliable fuel source and saves on the expense of an outside vendor.

Staff rented a load bank to test Membrane Plant and portable generators in preparation for Hurricane season. Field Operations portable generators were also tested.

**Next Months Goals:**

Receive PO for temporary coagulation feed system and begin installation of equipment. Meet with consultant to plan and schedule start of 90 day pilot testing .

Continue electrical switchgear inspections and maintenance.

Continue fuel polishing regiment.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						0
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population
Superior Capacity	2.0 Leadership in Water Management	2.2. Expand conservation efforts and other water efficiency efforts

**Reuse Treatment Plant Maintenance [05-887]**

Allocated for maintenance, replacement, reconditioning and installation of reuse plant pumps, motors, piping, valves, electrical switch gear and equipment, chemical feed equipment and infrastructure as needed.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Phil Hyer

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$2,123,717.52

**FY 2020** \$825,234.00

**Progress the month of:** February,2020

Parkson Filter Corp was onsite for rehabilitation of south filter. Project includes removal, cleaning and reinstallation of sand media, addition of new sand, replacement of sand movement sensors, cleaning of radial arms, replacement of reject valves and all airlifts and new mats for top grating.

Consultant finalizing opinion of cost, bid specifications and solicitation package for project to replace valves and actuators for Plant inlet, turbidity and chlorine reject and filter inlet valves, and installation of new and additional low pressure distribution and filter feed pumps.

New transfer pump for north filter was received and installed.

Air compressor annual maintenance has been performed.

Received quotes for new exterior lighting.

Staff worked on and completed Preventative Maintenance work orders.

**Next Months Goals:**

Continue PMs - and work on additional job and safety plans for Asset Management implementation

Receive specifications and bid package for valve, actuator and pump replacement project and send to Purchasing for solicitation.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	N/A, in-house					0
Construction	N/A, In house	NA				0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Superior Capacity	2.0 Water	2.1. Expand reuse capacities
Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population
Superior Capacity	2.0 Leadership in Water Management	2.2. Expand conservation efforts and other water efficiency efforts

**LHP Reuse System Expansion Phase III [06904]**

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Nathaniel Watson

**Phase:** Permitting

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$8,000,779.98

**FY 2020** \$678,347.00

**Progress the month of:** February,2020

**Next Months Goals:**

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						
Construction						

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

<b>Strategy</b>	<b>Goal</b>	<b>Initiative</b>
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**Reuse Distribution Expansion [06-904]**

This annual project continues with the installation of the reuse distribution system in Service Areas 1 through 4, as detailed in the Reuse Water Master Plan, which represents service to over 1,000 acres. The City has an inter-local agreement with Lighthouse Point to construct a transmission line and piping in order to provide reuse water to Pompano beach water customers in their city (about 500 connections). Construction will be ongoing in this area for the next 5-6 years.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Complete

**Phase:** Permitting

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$8,000,779.98

**FY 2020** \$678,347.00

**Progress the month of:** February, 2020

Closed out project

**Next Months Goals:**

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						0
Construction		270 days to final completion	11/6/2017	8/15/2018	180778	100

**Design PO's:**

**Construction PO's:**

Purchase Order	Company	Paid to date	Purchase Order Total
180778	DBF CONSTRUCTION LLC	\$1,752,252.39	\$1,752,252.40

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Superior Capacity	2.0 Water	2.1. Expand reuse capacities

**NE Reuse Phase II [06-904 Ph2]**

This project consists of Phase II reuse water main and service installations in LHP.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Complete

**Phase:** Complete

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** 0

**FY 2020** 0

**Progress the month of:** February,2020

Final punch list was completed

**Next Months Goals:**

Project closeout

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	Mathews		7/20/2018			100
Construction	Roadway Construction		11/27/2018			100

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
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**Well Maintenance Program [07-932]**

This ongoing project includes various maintenance, rehabilitation, and operational enhancements to the existing well fields and may include routine maintenance and rehabilitation where circumstances dictate. In addition, the project will include well field assessments, telemetry enhancements, upgrades and replacement. Ongoing Maintenance is required by State and Federal Regulations.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Phil Hyer

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$1,470,277.34

**FY 2020** \$832,898.00

**Progress the month of:** February,2020

Received quotes and received new telemetry communication equipment for wells 17, and 18. Received quotes for wells 20, 21 and 22 for new telemetry communication equipment and installation.

Received quotes for wells 23, 24, 25 and 26 to upgrade pump controls to Programmable Logic Controllers (PLC) which will enable selectable flow control from Water Plant Operations Control room.

Well 23 conversion to a submersible pump bacteriologically cleared and test run. Low flow issues were discovered and vendor pulled pump and are working to rectify.

Well #26 pump failed. Vendor pulled pump for inspection and evaluation. Will provide quotes for either repair or conversion to submersible pump.

Well # 2 bacteriological clearance testing completed and well placed back into service.

Well # 3 was plugged and abandoned due to proximity to new Membrane Plant concentrate deep well installation. This well will be relocated at a later date under another CIP project.

Annual wellfield generator maintenance was performed and completed. Radiator for generator at well #13 was replaced.

Staff re-submitted comments and redline plans back to developer's consultant to restore the damaged power supply for wells 17-19, based on revised scope of work and drawings. The City to assume purchase of equipment upgrades including telemetry communication provisions to each well house, perform final terminations and new power supply from transformers to inside well houses.

**Next Months Goals:**

Vendor to work on well 23, and schedule bacteriological testing for well #23.

Receive quotes for repair or conversion of well # 26.

Schedule switchgear maintenance vendor to service Palm Aire generator 13,220 VAC switchgear for maintenance , calibration and certification.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design		Mechanical Integrity Testing Concentrate Deep well	12/2/2013		142313	10
Construction		NA			141583	40

**Design PO's:**

Purchase Order	Company	Paid to date	Purchase Order Total
142313	MWH AMERICAS, INC.	\$71,554.00	\$71,554.00

**Construction PO's:**

Purchase Order	Company	Paid to date	Purchase Order Total
141583	AQUIFER MAINTENANCE &	\$75,000.00	\$75,000.00

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population
Superior Capacity	2.0 Leadership in Water Management	2.2. Expand conservation efforts and other water efficiency efforts

**Water Treatment Plant - Membrane Element Replacement [08-952]**

This ongoing project consists of replacing the membrane elements when needed. The membrane elements are used to purify water to make it potable and requires replacement every 5 years. Funding will be budgeted over a multi-year period to provide for full replacement.

**Managing Department:** Engineering, Utilities (WS or SW)

**Project Manager:** Jason Mraz

**Phase:** Design

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$290,776.91

**FY 2020** \$1,154,668.00

**Progress the month of:** February,2020

Membrane Trains 1 and 3 were loaded with new elements. Started up Trains 1 and 3 and completed the 7 day performance test. Both Trains passed the performance test and are running within specifications. Final shipment of elements delivered to the site.

**Next Months Goals:**

Load Trains 4 and 5 and complete performance testing.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	To Be Determined	2014				0
Construction		2015				0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

**Wastewater - Lift Station Rehabilitation [08-968]**

This annual CIP allows for upgrading and rehabilitating wastewater lift stations as prioritized by the Utilities Department. A lift station rehab consists of replacement of all major components, including plumbing, mechanical and electrical.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Bobby Clayton

**Phase:** Construction

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$5,129,648.69

**FY 2020** \$2,223,187.00

**Progress the month of:** February,2020

Continued to meet and discuss with Trio Development and ChenMoore options for the rehabilitation of Master Lift Station 61. This would include controllers, pump, wet well and pump room. In addition, reviewing the regulations regarding replacement of the aging emergency generator with an alternative emergency bypass pump and level controller

Trio Development has completed the rehabilitation of Lift Station 141

**Next Months Goals:**

Continue with design review and discussions regarding the rehabilitation of lift station 61  
Meet with Trio Development for additional lift station rehabilitations and upgrades

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	N/A	Ongoing				100
Construction	Trio					60

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process

**Water - Conservation Program [10-988]**

A Water Conservation Program is mandated as one of the limiting conditions of our Consumptive Use Permit. The program will consist of water saving features that will lower our water consumption.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Shana Coombs

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$161,266.97

**FY 2020** \$69,803.00

**Progress the month of:** February,2020

Increased the number of single family residential properties connected to the reuse program. A total of 967 single family residential properties have been connected to the reuse system through our I Can Water Program in Pompano Beach and Lighthouse Point.

**Next Months Goals:**

Continue to increase the number of connections and outreach efforts in Pompano Beach and Lighthouse Point.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design		Summer 2010				0
Construction		N/A				0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts

**Water Treatment Plant - Electrical System Rehabilitation [11-194]**

Renovation of the old electrical system in the Water Treatment Plant. The renovation includes all 480 and 5kv high service pumps and starters, all electrical switch gear and main electrical distribution systems. These issues were identified and incorporated in the Electrical Master Plan. An RLI for design, permitting, bid specifications and contract doc, bid and award assistance and contraction management services will be solicited in FY 2019. Application for funding for this project will be made to the State Revolving Fund loan program.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Phil Hyer

**Phase:** Design

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$2,638,280.45

**FY 2020** \$990,530.00

**Progress the month of:** February,2020

Solicitation was advertised, site tour held, and closed. Three submittals were received and will be evaluated.

**Next Months Goals:**

Finalize evaluation of submittals and set up committee meeting for selection to be made.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	TBD					0
Construction	Florida Design Contractor	10-months	11/23/2015	9/23/2016		0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

**Wastewater - General Electrical Improvements at all Lift Stations [13-205]**

Improve electrical systems at all lift stations. This is a recommendation from the 2011 Wastewater master plan and the City Facilities Assessment Plan to stop corrosive gases from ruining the electrical components and bring these stations up to current Electrical Code Standards. This project differs from general lift station rehab. in that it specifically targets deficiencies in the electrical wiring.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Bobby Clayton

**Phase:** Design

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$22,314.00

**FY 2020** \$326,700.00

**Progress the month of:** February, 2020

Replacement electrical control panel and additional SCADA upgrades are part of the ongoing rehabilitation of lift station 141

**Next Months Goals:**

Completion and startup of lift station 141 is expected for the week of December 8  
Review and propose additional items

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	Piggyback Contract with TRIO and TV Diversified					30
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process

## Water - A1A Water Main Replacement [13-206]

SR A1A water main replacement between Dow St and Riverside Drive as the water main is reaching the end of it's design life.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Complete

**Phase:** Complete

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$1,087,413.00

**FY 2020** \$47,390.00

**Progress the month of:** February,2020

All project construction, restoration and cleanup has been 100% completed. Project is final stages of closeout and final payment evaluation. Final as built's are under review by Engineer of Record.

**Next Months Goals:**

Final payment and financial closure to be completed.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	Mathews Consulting	2015-2016	7/1/2015	1/31/2016	153076	100
Construction	Southeastern Engineering Contractors					0

**Design PO's:**

Purchase Order	Company	Paid to date	Purchase Order Total
153076	MATHEWS CONSULTING INC	\$98,114.83	\$98,114.83

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

**Water Treatment Plant - Security/Facility Access Project [14-233]**

To investigate the best approach to secure various areas of the water & reuse treatment plant facilities using the state of art security technologies. Some of these areas are ingress and egress of the plant site, the High Service Pump rooms, electrical rooms, Operations and Chemical rooms, laboratory rooms, remote well houses and Indian Mound storage tank and pump station.

**Managing Department:** Engineering, Utilities (WS or SW)

**Project Manager:** Complete

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$290,631.86

**FY 2020** \$39,846.00

**Progress the month of:** February,2020

Project Completed.

**Next Months Goals:**

Project completed.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	Holb-Sierra					100
Construction	Holb-Sierra	90-days	12/7/2015	3/7/2016	153470	0

**Design PO's:**

**Construction PO's:**

Purchase Order	Company	Paid to date	Purchase Order Total
153470	HOLB SIERRA CORP	\$239,674.00	\$239,674.00

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

Current Water System Master Plan update was completed in 2009. The City's Comprehensive Plan requires five year updates. The Water System Master plan includes an assessment of distribution system and raw water facility condition, and incorporates current documents used to evaluate the adequacy of the water system to meet required level of service and to maintain compliance with water quality and regulatory requirements.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Complete

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$58,299.00

**FY 2020** \$0.00

**Progress the month of:** February,2020

Plan is completed.

**Next Months Goals:**

Final plan completed. No additional activities for this project.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						100
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population

## Water Treatment Plant Facility - Painting [15-256]

The water treatment plant facility has not been painted for over 25 years: There is superficial cracking allowing moisture to get into the concrete that can cause deterioration of the concrete and the reinforced iron rebar. The cracks in the facility must be repaired and sealed, then a top coat of uniformed color coating applied to improve the structural and aesthetic appearance of the facility.

**Managing Department:** Engineering, Utilities (WS or SW)

**Project Manager:** Phil Hyer

**Phase:** Construction

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$313,099.93

**FY 2020** \$1,235,501.00

**Progress the month of:** February,2020

Decision was made to incorporate both the Membrane and Filter Building projects together for solicitation. Funding for the Filter Building will not be available until approved in the 2021 CIP budget.

**Next Months Goals:**

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	N/A					100
Construction	TBD		10/17/2016			50

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Great Places	5.0 Corridor Redevelopment	5.4. Improve overall aesthetic appearances
Superior Capacity	1.0 Energy	1.2. Retro-fit existing facilities as appropriate
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

## Water Treatment System Corrosion Study [15-257]

The Florida Administrative Code requires optimized corrosion control for all Large Water Suppliers. The last study was done before the construction of the membrane plant. This project will also provide a mechanism for corrosion control inhibitor testing.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Phil Hyer

**Phase:** Design

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$0.00

**FY 2020** \$80,000.00

**Progress the month of:** February,2020

Project on hold until funding can be secured to re-line or replace permeate piping to degasifies.

**Next Months Goals:**

Determine if funding is available for permeate piping relining or replacement and if it should be done in order to properly perform a corrosion control study.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						0
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

**Water Treatment Plant - Membrane Concentrate Connection [15-258]**

Design and install a pipe line to the Broward County Wastewater Force main for emergency disposal of membrane plant concentrate water during times when the concentrate injection well is down for maintenance and/or testing.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Jason Mraz

**Phase:** Design

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$142,007.68

**FY 2020** \$56,518.00

**Progress the month of:** February,2020

Project Complete.

**Next Months Goals:**

Project Complete.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						0
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

**Utility Asset Management Development and Implementation [15-259]**

This project is the development and implementation of a utility asset management program. The software, consulting/design for this program will enhance the life of the utility assets, identify future CRP/CIP projects, assist with compliance and increase reliability.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Phil Hyer

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$63,340.00

**FY 2020** \$91,659.00

**Progress the month of:** February,2020

Implementation for the Water Plant is 100% complete by the close of 2019. We continue to roll out weekly, monthly, semi annual and annual scheduled work orders and train staff on the system.

**Next Months Goals:**

Continue rollout of additional work orders and job plans.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						0
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

**Water Treatment Plant - Lime Softening Process Rehabilitation [16-287]**

The Water Treatment Plant has two (2) distinct treatment processes, lime softening and membrane. A recent evaluation conducted by City Consultant, Carollo Engineers, compared either expanding the membrane treatment process, decommissioning the lime softening, or rehabilitating the lime treatment plant for a 20 year life cycle. It was determined that based on the capital costs and operational costs for membrane expansion, that rehabilitating the lime softening treatment was more cost effective.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Jason Mraz

**Phase:** Design

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$455,694.00

**FY 2020** \$1,938,800.00

**Progress the month of:** February,2020

North treatment unit drained, cleaned, and inspected by our consultants.

**Next Months Goals:**

Consultant will make recommendations on what is needed to rehabilitate.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						0
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population

**Utility Hardening of Water Inter-Connections [16-288]**

Project will install meters and backflow protection between the City of Pompano Beach Water System and other Utilities at the following locations: Broward County 2A\* 12" at 2517 NE 22nd Avenue, Lighthouse Point; Fort Lauderdale\* 6" near East McNab Rd & NE 20th Terrace, Ft. Lauderdale; Ft. Lauderdale\* 12" West McNab Road & SW 46th Avenue, Pompano Beach; Fort Lauderdale 12" AIA/5450 N. Ocean Boulevard, Lauderdale by the Sea. The meters provide for water usage determination and recovery of cost should emergency conditions require the opening of the connections.

**Managing Department:** Engineering, Utilities (WS or SW)

**Project Manager:** Ben Bray

**Phase:** Permitting

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$221,313.65

**FY 2020** \$1,194,658.00

**Progress the month of:** February,2020

Inter-local agreements have been sent out to Broward County and the City of Fort Lauderdale for review and approval.

**Next Months Goals:**

Put project out for bid.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						100
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

## Hurricane Hardening For Water Plant Facilities [16-289]

Per the Facilities Assessment, subsequent CDM study (Building Structural Review for Hurricane Hardening Grant) that was previously conducted, and current Florida Building Code wind load requirements, it has been determined that some of the Water Plant facility still requires structural modifications and hurricane rated impact windows and doors for adequate hurricane hardening of the Water Treatment Plant. Tetra Tech is currently developing design and contract documents for hurricane hardening and exterior remediation and coating of all buildings at the Water Plant for solicitation.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Phil Hyer

**Phase:** Design

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$665,569.50

**FY 2020** \$159,281.00

**Progress the month of:** February,2020

100% design specifications for hardening, remediation and coatings for the Lime and Dewatering buildings are complete. CIP Funding will not be available until FY 2022 for these two buildings. Alternate grant funding is being investigated.

**Next Months Goals:**

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	Tetra Tech	October 2016- June 2017	9/27/2016		162229	70
Construction						0

**Design PO's:**

Purchase Order	Company	Paid to date	Purchase Order Total
162229	TETRA TECH INC	\$38,665.00	\$38,665.00

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Great Places	2.0 Tourism	2.13. Improve aesthetic appearance of City facilities
Superior Capacity	1.0 Energy	1.2. Retro-fit existing facilities as appropriate

**Reuse Plant Facility Painting [16-290]**

This project is for the painting of the Reuse Plant building structures. These structures include the main building, chemical building, north and south filters and two storage tanks onsite. These structures have not been repainted since their installation in 1988 and 2001 and their coatings have met and exceeded their service life.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Phil Hyer

**Phase:** Construction

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$123,888.05

**FY 2020** \$209,148.00

**Progress the month of:** February,2020

Complete

**Next Months Goals:**

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	N/A					100
Construction	Thousand One Painting		9/19/2016	1/17/2017	163067	90

**Design PO's:**

**Construction PO's:**

Purchase Order	Company	Paid to date	Purchase Order Total
163067	THOUSAND AND ONE PAINTING CORP	\$24,918.00	\$24,918.00

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Great Places	2.0 Tourism	2.13. Improve aesthetic appearance of City facilities



## Water - Meter Replacement Program [17-305]

The Automatic Meter Infrastructure (AMI) project was completed in 2012. As part of that project, Siemens replaced all meters greater than 5 years old and updated meters that were less than 5 years old by March, 2011. This project resumes the meter replacement program in 2019 and will replace meters that were not replaced during the AMI project. A schedule will be prepared to replace meters to ensure no more than 10% of the meters are older than 10 years old at any given time. This program is needed to ensure that water sales information is accurate and that the percent of water loss for the system remains low. The American Water Works Association (AWWA) standards specify that water meters to be tested after 10 years of service.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Aaron Lyons

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$696,365.03

**FY 2020** \$301,884.00

**Progress the month of:** February, 2020

The changing of water meters remain in progress. Forty-One (41) water meters were changed out in the month of December. Since October 1, 2016 a total of 1,504 meters has been changed.

**Next Months Goals:**

Continue changing water meters alongside dual check devices according to schedule.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						100
Construction			10/1/2016			0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

**Water Treatment Plant - Concentrate Deep Well Re-Lining [17-306]**

In order to operate the membrane water treatment plant, the concentrate (reject waste stream) must be disposed of via deep well injection which is a necessary component of the membrane treatment operation. The existing deep well located on the Water Treatment Plant's site has been abandoned due to failed rehabilitation efforts. The City has now began the process of drilling a new deep well. The new well will utilize FRP (Fiberglass Reinforced Plastic) pipe which carries a 50+ year life cycle, this technology was not available when the well was originally constructed.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Jason Mraz

**Phase:** Design

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$9,657,180.93

**FY 2020** \$6,803,715.00

**Progress the month of:** February,2020

Youngquist Brothers, Inc. (YBI) completed reaming the injection zone down to 2,950 feet lbs., performed a caliper log, and began the color video survey.  
Youngquist Brothers, Inc. (YBI) completed the color video survey to 2,950 feet lbs., installed the 16-inch diameter fiberglass reinforced plastic (FRP) tubing, performed a pre-cementing cement bond log (CBL), and set the penta-seal packer with gravel, sand, and four barrels of neat cement.  
Youngquist Brothers, Inc. (YBI) completed cementing the 16-inch FRP, performed the CBL, and developed and sampled for final injection water quality.

**Next Months Goals:**

YBI will complete the final video and perform the pressure test on the FRP.  
Complete the injection test on the new well using raw western water.  
Begin construction of containment pad and final wellhead.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						0
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population

**92 Water Treatment Plant - Recarbonation Feed System Rehabilitation [17-307]**

The carbon dioxide chemical system is in need of replacement (1984). This is a critical chemical in our treatment process (pH) and compliance with DEP's 4 Log Treatment Certification.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Jason Mraz

**Phase:** Design

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$639,239.87

**FY 2020** \$15,739.00

**Progress the month of:** February,2020

Project Complete.

**Next Months Goals:**

Project Complete.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						0
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

This project consists of preparing the Water Supply Plan. This plan is required to be updated every five years and approved by the South Florida Water Management District and the State. This plan must be adopted, along with the relevant Comprehensive Plan Elements, within 18 months of the South Florida Water Management District approving the Lower East Coast Water Supply Plan.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Shana Coombs

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$202,571.90

**FY 2020** \$73,632.00

**Progress the month of:** February,2020

The Utility Department received the executed agreement along with the Purchase Order for the project.

**Next Months Goals:**

Schedule kick off meeting

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						0
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population

**Water - Master Plan Update 2018 [18-322]**

The Water Master Plan update is required every five years in order to evaluate the water distribution system and source water wells condition, current operations and future demands. This update is required per the City Comprehensive Plan and provides assessments needed for the Water Supply Plan, as well as planning for capital improvement projects.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Shana Coombs

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$212,929.15

**FY 2020** \$124,936.00

**Progress the month of:** February,2020

On August 27, 2019, a progress meeting was held to address the projected population demand, hydraulic modeling efforts, storage capacity and benchmarking.

**Next Months Goals:**

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						0
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

Current Reuse Master Plan update was completed in 2014. The data is required for the state mandated Water Supply Plan due in FY 2018.

**Managing Department:** Engineering, Utilities (WS or SW)

**Project Manager:** Shana Coombs

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$91,365.46

**FY 2020** \$29,317.00

**Progress the month of:** February,2020

We are in the process of deploying data loggers to the distribution system to capture pressure readings. This data will then be used to calibrate the hydraulic model.”

**Next Months Goals:**

Have pressure data for hydraulic model.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	Mathews Engineering				142368	100
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Superior Capacity	2.0 Water	2.1. Expand reuse capacities
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population

**Water Treatment Plant - Transfer Station Rehabilitation [18-324]**

Rehabilitation of the transfer station switchgear, adding variable-frequency drives (VFD)s to the pumps and piping.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Phil Hyer

**Phase:** Construction

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$2,528,971.15

**FY 2020** \$2,451,474.00

**Progress the month of:** February,2020

Old switchgear has been removed and new units installed. The two new additional transfer pumps and VFDs have been installed, the pump piping bacteriologically clearance testing complete, SCADA controls programming is in progress. Pumps have been test run and are ready to be placed into service. Two new Membrane Plant feed pump VFDs have been installed.

**Next Months Goals:**

Place Transfer pumps # 4 & 5 in service and begin replacement of 1-3. Start up and place in service membrane feed pump VFDs 4 & 5 and begin and complete replacement of 1-3.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						0
Construction						0

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

**Non-Sewer Area C [19-347]**

This unsewered area occupies approximately 51 acres in the southwest corner of Powerline Road and NW 18th Street. This area is occupied by auto salvage companies and several small commercial/light industrial properties. Some of these properties have little or no access to public streets. Since these properties cover a relatively large area with limited access to public streets, serving the entire area with a single gravity sewer system is not practical. Three separate gravity collection systems with small pumps stations are recommended for a portion of the property. Two properties along Powerline Road would be best served with two low pressure pump stations.

**Managing Department:** Engineering, Utilities (WS or SW)

**Project Manager:** Matthew Kudrna

**Phase:** Design

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$127,009.10

**FY 2020** \$201,460.00

**Progress the month of:** February,2020

Survey and preliminary design continue, discussed water meter use of several properties within the project limits.

**Next Months Goals:**

Monitor the design and provide requested data.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design	Craig A Smith		10/21/2019	9/30/2020	300614	10
Construction	TBD					

Design PO's:

Construction PO's:

Supports Strategic Plan Initiative:

Strategy	Goal	Initiative
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**Wellfield Performance and Relocation Study [19-349]**

This study will be a comprehensive assessment of both wellfields. Each individual well in the west wellfield will be evaluated for sand production, specific capacity tests and evaluation of conversion to submersible pump technology, which will improve operational efficiency and eliminate regulatory compliance inspection deficiencies. Wells in the east wellfield located in the Air Park property will be evaluated for relocation or abandonment and replacement.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Jason Mraz

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$224.90

**FY 2020** \$549,887.00

**Progress the month of:** February, 2020

Project awarded to Tetra Tech.  
 Consultant working on scope of work in order to execute the contract.

**Next Months Goals:**

Review scope of work and execute the contract.

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						
Construction						

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

Strategy	Goal	Initiative
Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population
Superior Capacity	2.0 Leadership in Water Management	2.2. Expand conservation efforts and other water efficiency efforts

**Reuse Connection Services [20-386]**

This project provides reuse connection services to single family residential properties. This will lower our drinking water consumption.

**Managing Department:** Utilities (WS or SW)

**Project Manager:** Shana Coombs

**Phase:** Other

**Funding Source**

Utility Renewal and Replacement Capital Fund (420)

**Prior Expenditures:** \$22,465.00

**FY 2020** \$100,000.00

**Progress the month of:** February,2020

**Next Months Goals:**

	Consultant/Contractor	Time Frame	Start Date	End Date	PO#	% Complete
Design						
Construction						

**Design PO's:**

**Construction PO's:**

**Supports Strategic Plan Initiative:**

<b>Strategy</b>	<b>Goal</b>	<b>Initiative</b>
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