

**Utilities Commission  
City of New Smyrna Beach, Florida**



Five Year  
Capital Improvement Plan  
FY 2010 to FY 2014  
and  
FY 2015 to FY 2019  
March 16, 2009

# Table of Contents

Executive Summary.....	1
CIP Project Descriptions	
Electric System.....	2
Water System.....	5
Wastewater/Reuse System.....	8
IT/Admin/HR/Finance/Eng .....	12
Capital Improvement Plan	
Combined System Summary .....	14
Electric System .....	15
Water System.....	17
Wastewater/Reuse Systems .....	19
IT/Admin/HR/Finance/Eng .....	21

# Capital Improvement Plan FY 2010 to FY 2014 and FY 2015 to FY 2019

## Executive Summary

This report addresses the planning period from Fiscal Year 2010 through 2014 and Fiscal Years 2015 through 2019. Improvements presented herein are perceived as a statement of needs and are necessary to maintain and continue a level of service to accommodate what we believe to be minimal or managed growth. We continue to review projects and changing regulations for both impacts to our system and different technologies to improve our effectiveness from both a financial and asset performance perspective. Significant projects require an adequate lead time for detail planning and for the execution of the plans.

The improvements described herein are divided into electric, water, wastewater/reuse and administration (IT, HR, Finance, Engineering). The cost estimates are based on current costs using 2009 dollars. Projects are included based on the best available information from current assessments.

All planning requires some flexibility, particularly with a five and ten-year planning horizon. Annual updates are necessary and reasonable, and no planning can be certain enough to exclude the possibility that external forces may generate a need not perceived or tend to reduce the need for a particular project or projects. In the coming years, depending on experience, we may elect to defer spending until the projects are needed.

The Utilities Commission can take satisfaction in the knowledge that the Five Year Plan will provide the facilities necessary to accommodate growth, replacement, and system rehabilitation, and is intended to anticipate the needs of its customers.

Total capital improvements estimated for this five-year planning period amounts to \$44,331,825, not including projects to be funded with infrastructure fees which total \$40,703,000. The improvements to be undertaken will be funded by a combination of connection fees, grants, capital improvement funds, and alternate means of financing.

Prepared by the Utilities Commission Staff

# Capital Improvement Plan Project Descriptions

## Electric System

- E-7      Remove Obsolete Marsh Line  
Work required to remove abandoned lines in salt marsh east of US-1 from Police Station to Swoope Dr. and the line crossing the river at Arbor Dr. in Edgewater.
- E-43      Electronic Reclosures  
Work required to perform maintenance on existing system electronic reclosers and installing new electronic reclosers. These funds will allow us to provide acceptable reliability levels.
- E-57      Distribution System Automation  
Funds required to install additional SCADA operated switches and switchgear to improve reliability levels.
- E-65      Install PVC Conduit (Contract)  
Funds will be utilized for installation of PVC conduit in existing underground subdivisions that have direct buried underground cables.
- E-70\*      Cassadaga 115 kV Transmission Line Extension  
Construction of the extension of the existing Cassadaga Line from Williamson Blvd. to Field Street Substation. This line will provide an alternate transmission feed for Field Street Substation.
- E-72\*      Reconductor Pioneer Trail  
Construction of line extension along sections of Pioneer Trail to provide additional capacity for new developments.
- E-79\*      Reconductor N. Glencoe  
Construction of line extension along Glencoe Road, to provide additional capacity for new developments along Glencoe Rd. and Pioneer Tr.
- E-80\*      Venetian Bay Alternate Feed  
Construction of line extension from Airport Road to Venetian Bay for additional capacity, plus supply proposed developments east of the subdivision.
- E-81\*      T&D Facilities Station Upgrades  
Funds will provide for various items identified in the R. W. Beck Transmission and Distribution Study.

- E-82\* Williamson Boulevard Electric Improvements  
Funds will provide to install electric facilities for PUD's along Williamson Boulevard as homes are developed.
- E-85\* Extend Service to New Developments  
Construction of connections of new homes developed in the UCNSB service area.
- E-91 Road Project Relocations/Interagency Co-op. Projects  
Work consists of relocating of electric facilities for projects planned along county and state roads.
- E-96 115 kV Transmission Tie Airport to Field Street  
Construction of this transmission line will provide a second source for Airport and Field Street Substations in the event of a failure of the existing lines from Smyrna Substation. Field Street and Airport Substations comprise +/- 80% of our system capacity.
- E-97 Replace Underground Cable  
Work will provide for the replacement of underground cable that has reached the end of life in existing subdivisions.
- E-98 Substation Transformer Contingent  
These funds will provide for the mobilization and installation of a mobile substation transformer in the event of a transformer failure in our system.
- E-99 Replace Obsolete Meters  
Funds will provide for the replacement of damaged and/or outdated electric meters.
- E-102 Replace Rolling Stock Equipment  
Funds will provide for the replacement and/or re-stocking of existing equipment in line, bucket and pick up trucks.
- E-103 Expansion/Field Fixtures/Material/Equipment  
Project will provide for the yearly extension of electric facilities to include transformers, new services, streetlight, power-operated tools, and substation equipment. Funds will also provide for transmission line clearing to comply with PSC Storm Hardening Mandates.
- E-104 CR3 Capital Improvements  
Funds are for project/improvements to the Crystal River Nuclear Plant #3, as defined by the facilities operating owners.

- E-106     Operations Center Improvements  
Project is to replace the roof of the Operations Center building.
  
- E-107     SPCC Oil Containment  
Work is to provide for oil containment at various electric facilities to comply with EPA guidelines.
  
- E-108     Vehicle Replacement (Div. 270)  
Replace diesel pick up truck.
  
- E-109     Electric Renewables  
Funding for alternate energy sources including renewables.

## Water System

- W-25     Upgrade Under-sized Water Mains  
Upgrade under-sized water lines to 6-inch lines (including looping) where necessary.
- W-26     New Customer Water Line Extensions  
Work is limited to extensions which will serve larger parts of the system as loop or upsizes.
- W-28\*    Develop New Central Wellfield  
The ongoing construction of the new central wellfield to develop the 175 MGD increased allocation. Work includes drilling 8” monitoring well, 4-6 additional production wells, auxiliary generator and remote transfer switch, piping to raw water transmission line at S.R. 44 and automated remote control, site and access improvements. .
- W-40\*    Upgrade Glencoe Water Treatment Plant Filters  
Work consists of replacing the existing filters at Glencoe Water Treatment Plant with new higher capacity units. This will be for re-rating of the plant to 12.5 MGD.
- W-45     Road Project Relocations/Interagency Co-op. Projects  
Work consists of relocating, adjusting or replacing water lines which conflict with other features of road improvement/widening projects in the possible rights-of-way.
- W-48\*    Williamson Boulevard Water Improvements  
Possible extension of Williamson Boulevard.
- W-105\*   Subaqueous Main Crossing Indian River  
Work consists of constructing a new subaqueous 12” pipeline across the Indian River near the North Causeway to improve flow capacity.
- W-106\*   South Glencoe Road Water Main  
Work includes constructing new 8” main in South Glencoe Road between Glenhaven and Cone Lake Drive to loop existing mains.
- W-107\*   Art Center and Sunset Drive Water Main Improvements  
Work includes constructing four segments of 6” and 8” main in Sunset Drive and Art Center Avenue to loop and provide better quantity and quality to that area.
- W-109\*   Ingham Road and Enterprise Road Water Main Improvements  
Work includes two segments of 8” main construction to loop existing lines providing improved quality and flow characteristics.

- W-110\* Pioneer Trail Water Main Extension “A”  
Work includes constructing a segment of 12” water main in Pioneer Trail between Alberta and Sweet Bay Roads improving flow characteristics for regional developments.
- W-111\* Eslinger Road Water Main Extension  
Work includes constructing a new 12” water main in Eslinger Road between Rossmore and Old Mission to improve quality and flow serving new development in the area.
- W-112\* U.S. Highway 1 Water Main Improvements  
Work includes constructing new 8” water main in U.S. Highway 1 to provide better flow and quality in the south service area.
- W-114\* Pioneer Trail Water Main Extension “B” and “C”  
Work includes constructing 12” water main extension in Pioneer Trail between Sweet Bay Road and Promenade Park.
- W-115\* West New Blvd N&S Extension  
Work includes constructing new 12” water main north to Pioneer Trail and south to Hammock Creek Drive for flow for Land Mar and Hammond Co. Development.
- W-117\* Western Storage Tank and Pump Station  
Work includes constructing new pump station and 1 MG tank in the west service area around Venetian Bay/Venetian Palms including land acquisition.
- W-124\* Horizontal Wells/ASR/Deep Well  
Work includes beginning development of holding lake, horizontal wells, deep Floridan well, ASR combination to develop more source water to augment reclaim water and potable supplies; could include reverse osmosis treatment.
- W-125 Water Production Equipment and Fixtures  
Replace/upgrade equipment at Water Treatment Plant for production division.
- W-126 Water Distribution Equipment and Fixtures  
Replace/upgrade equipment at Water Treatment Plant for distribution division.
- W-127 Water Treatment Plant Hypochlorite Conversion  
This work includes the conversion of the Water Treatment Plant disinfection from gaseous chlorine to liquid sodium hypochlorite for safety and security considerations.

W-128 Future Water Supply  
Funding for alternate water supply needs.

## Wastewater System

- WW-20 Manhole Lining Program  
Work includes on-going annual program of repairing/reconstructing old mostly brick manholes.
- WW-38 Gravity Sewer Rehabilitation  
Work includes on-going annual program of repairing/reconstructing old failing gravity sewer lines.
- WW-49 Biosolids Process Upgrade  
Work includes developing, permitting, constructing, implementing a new system of treating wastewater sludge when land application is no longer available.
- WW-51 Road Project Relocations/Interagency Co-op  
This work includes relocating/reconstructing pipelines which conflict with planned roadway improvement in public rights-of-way.
- WW-54 Williamson Boulevard Wastewater Improvements  
Possible extension of Williamson Boulevard.
- WW-59 Wastewater Collection Equipment and Fixtures  
Replace/upgrade Wastewater Treatment Plant equipment and fixtures in the collections division.
- WW-60 Wastewater Pumping Equipment and Fixtures  
Replace/upgrade Wastewater Treatment Plant equipment and fixtures in the pumping division.
- WW-61 Reconstruct 12 Lift Stations  
Work includes reconstructing 12 obsolete lift stations.
- WW-62 Repair/Upgrade 30 Lift Stations  
Work includes major repairs to 30 lift stations suffering from age and wear.
- WW-63 System-wide Infiltration/Inflow Assessment  
Work includes evaluating and testing entire system to determine location and extent of infiltration/inflow so that corrections might start.
- WW-65 Beachside Interceptor Force Main  
Work includes constructing a regional force main into which several lift stations will pump eliminating several re-pump situations.

- WW-66 Sugar Mill Collection System Improvements  
Work includes modifications to Lift Station Nos. 71, 72, 77 and 78 to improve overloaded lift stations.
- WW-67\* NW Regional Lift Station and Force Main  
Work includes constructing a regional lift station in the Pioneer Land Trust Development to serve that area.
- WW-68\* SW Regional Lift Station and Force Main  
Work includes constructing a regional lift station in the Land Mar Development and a force main to conduct flow to the WWTP.
- WW-69\* Sachs Regional Lift Station and Force Main  
Work includes constructing a regional lift station in/near the Sachs property development and new force main to connect to the 30” interceptor force main on S.R. 44.
- WW-70\* Becks Regional Lift Station and Force Main  
This work includes constructing a regional lift station to serve the Becks property and a force main to connect to the 30” interceptor on S.R. 44.
- WW-71 WWTP Sodium Hypochlorite Conversion  
This work includes the conversion of the WWTP effluent disinfection from gaseous chlorine to liquid sodium hypochlorite for safety and security considerations.
- WW-72 Indian River Outfall Discharge Dechlorination Improvements  
This work includes improvements to the outfall dechlorination equipment to meet regulatory requirements, environmental controls and improve community safety and security.
- WW-73 WWTP Influent Structure Improvements  
Work includes replacing equipment and modifying structures to improve the function of the WWTP influent structure, automatic monitoring and control, new grit bar screen, and solids disposal.
- WW-74 Rehabilitate WWTP Clarifiers  
This work includes replacement of corroding and wearing equipment due to age/wear and tear to maintain operational ability of the Plant to meet regulatory requirements.
- WW-75 WWTP Chlorine Contact Basin Conversion  
This work includes constructing environmental covers over chlorine contact chambers to improve treatment and reduce effect of sunlight/wind/rain, etc., on treatment performance, increase safety and security.

WW-76 WWTP 3.5 MGD Capacity Expansion Train  
This work includes constructing a third treatment process model/train to raise the capacity of the Plant from 7.0 MGD to 10.5 MGD to improve operational efficiency, meet regulatory requirements and serve growing population.

WW-77\* Smyrna South Lift Station/Force Main  
This work includes constructing a regional lift station and connecting force main to serve the Smyrna South area.

WW-78\* Village Square Lift Station/Force Main  
This work includes constructing a regional lift station and connecting force main to serve Village Square.

### **Reuse System**

R-26 Reclaimed Meters  
Installation of reclaimed meters throughout the service area.

R-29\* Reuse Interconnection with Port Orange  
Work includes constructing remote operated, metered interconnection with Port Orange reclaim water system for mutual assistance.

R-30 Road Project Relocations/Interagency Co-op. Projects  
This work includes relocating/reconstructing pipelines which conflict with planned roadway improvement in public rights-of-way.

R-32\* 2 MG Reclaim Water Tank and Pump Station SW  
This work includes constructing new reclaim storage and pumping facilities in the southwest service area to serve Land Mar/Venetian Palms and Venetian Bay.

R-33\* Pioneer Trail 16" Reclaim Pipeline  
This work includes constructing a new pipeline to and along Pioneer Trail to serve new developments of Promenade Park, Pioneer Land Trust (sod farm), Port Orange interconnect and Venetian Bay.

R-34\* S.R. 44 16" Reclaim Main Extension  
This work includes extending the S.R. 44 reclaim transmission line to the service/pumping point at the WWTP.

R-35\* Southwest Reclaim Loop  
This work includes constructing a new 16" looping pipeline to serve the Land Mar area and provide a connection point for an Edgewater interconnect.

- R-36     Reclaim Water Source Development/Augmentation  
This work includes planning, engineering, permitting and constructing new source water for irrigation from a to be determined combination of lake storage, stormwater, horizontal wells and deep well aquifer brine development and treatment.
- R-37     Sugar Mill Tank Storage  
Funds available for use of the tank and facilities for storage of re-use water.

**Common Divisions** (Administration, IT, Finance, Engineering, HR)

- IT-3      Municipal and UC Communications  
Provides for upgrades, maintenance and support for our existing and expanding internal network and security needs. Also provides for the installation, maintenance and support for our Municipal Fiber backbone.
- IT-15     Accounting/Customer Service MIS Systems  
Provides for ongoing upgrade, support and maintenance of Microsoft Great Plains/Dynamics accounting system, as well as our utility billing system.
- IT-16     AM/FM/Software and Equipment  
Provides for the installation, maintenance and support of a GIS software system.
- IT-17     Work Management/Document Retention Systems  
Provides for the initial installation, training, and assisting of a document management/retention systems. Will also provide the maintenance, support and addition of any new modules.
- IT-19     Disaster Recovery Applications & Equipment  
Provides for support for installation and maintenance of a data disaster center (off site). In addition to providing for equipment and supplies that will be needed for the implementation of the disaster recovery plan.
- IT-20     Production Environment  
Provides for upgrade, support and maintenance of existing PC's, servers, and printers that are currently in our production environment.
- IT-21     OSI SCADA Expansion  
Provides for the upgrade of the current electric operations SCADA System.
- IT-22     Telephone System  
Replace existing Avaya telephone system with compatible and updated technology.
- IT-23     Mobile Radio System  
Replace obsolete technology for mobile radio communications, repeaters and radios (Electric, Water and Wastewater vehicles).
- IT-24     SCADA Expansion  
Provides for the upgrade, maintenance and support of the current water and wastewater SCADA System.

- CE-2     Vehicle Replacement  
Provide for replacement of vehicles utilized by Engineering staff.
- CF-1     Vehicle Replacement  
Provide for replacement of vehicles used by Meter department.
- CF-2     Warehouse Improvements  
Provide for warehouse facility improvements and/or equipment upgrades.

# CAPITAL IMPROVEMENT PLAN SUMMARY

Description	TEN YEAR										10-Year Total
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	
Electric Improvements	\$ 1,812,200	\$ 2,164,200	\$ 2,836,200	\$ 3,262,300	\$ 2,432,200	\$ 2,452,628	\$ 2,556,471	\$ 2,410,251	\$ 2,520,024	\$ 2,166,000	\$ 24,612,474
Water Improvements	1,132,450	1,094,800	995,775	1,193,000	1,231,400	1,545,000	1,860,500	2,086,000	2,367,600	1,400,200	14,906,725
Wastewater Improvements	1,489,400	3,158,800	2,435,200	3,226,700	3,510,200	11,538,000	6,340,600	1,747,200	1,450,800	1,672,400	36,569,300
Reuse Improvements	228,000	1,006,000	1,109,000	2,112,000	2,140,000	1,143,000	1,146,000	150,000	154,000	183,000	9,371,000
Common (IT/HR/Eng/Fin/Adm)	1,047,000	1,340,500	1,099,500	1,172,500	1,102,500	1,127,000	946,000	1,013,000	1,027,000	1,063,000	10,938,000
<b>Total</b>	\$ 5,709,050	\$ 8,764,300	\$ 8,475,675	\$ 10,966,500	\$ 10,416,300	\$ 17,805,628	\$ 12,849,571	\$ 7,406,451	\$ 7,519,424	\$ 6,484,600	\$ 96,397,499

Description	TEN YEAR										10-Year Total
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	
Transfer from Restricted R&R	\$ 250,000	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000
Mandatory Transfer to R&R	2,727,297	2,997,262	2,787,075	2,824,341	2,870,614	2,927,786	2,978,070	3,027,644	3,097,782	3,162,424	29,400,295
Additional Transfer to R&R	1,456,753	1,651,038	1,279,600	1,256,159	1,342,886	1,540,114	1,415,030	1,530,156	1,462,418	1,662,176	14,596,330
Alternate Financing/Grants	1,275,000	3,866,000	4,409,000	6,886,000	6,202,800	13,337,728	8,456,471	2,848,651	2,959,224	1,660,000	51,900,874
<b>Total</b>	\$ 5,709,050	\$ 8,764,300	\$ 8,475,675	\$ 10,966,500	\$ 10,416,300	\$ 17,805,628	\$ 12,849,571	\$ 7,406,451	\$ 7,519,424	\$ 6,484,600	\$ 96,397,499

# CAPITAL IMPROVEMENT PLAN ELECTRIC

Item #	Description	FIVE YEAR					TEN YEAR					10-Year Total
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	
E-7	Remove Obsolete Marsh Line (Line #4)	\$ 5,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ -	\$ 85,000
E-43	Electronic Reclosures	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000
E-57	Distribution System Automation	30,000	75,000	75,000	75,000	100,000	100,000	100,000	100,000	100,000	100,000	855,000
E-65	Install PVC Conduit (Contract)	50,000	50,000	50,000	60,000	70,000	70,000	70,000	-	70,000	-	560,000
E-91	Road Proj Reloca/Interagency Coop. Proj	50,000	75,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	925,000
E-96	115 kV Transmission Tie Airport-Field St	-	-	1,000,000	1,500,000	-	2,500,000	-	-	-	-	2,500,000
E-97	Replace Underground Cable	100,000	100,000	100,000	100,000	100,000	500,000	100,000	100,000	100,000	100,000	1,000,000
E-98	Substation Transformer Contingency	-	250,000	-	-	-	250,000	-	-	-	-	250,000
E-99	Replace Obsolete Meters	60,000	60,000	60,000	60,000	-	240,000	-	-	-	-	240,000
E-102	Replace Rolling Stock Equipment	170,000	220,000	170,000	-	250,000	810,000	-	-	-	-	2,335,000
E-103	Expansion/Field Fixtures/Material/Equip	1,011,200	1,153,200	1,128,200	1,185,300	1,196,400	5,674,300	-	1,370,800	1,421,000	12,542,600	
E-104	CR-3 Capital Improvements	76,000	111,000	63,000	12,000	-	262,000	-	-	-	-	262,000
E-106	Operations Center Improvements	10,000	10,000	30,000	110,000	-	160,000	-	-	-	-	160,000
E-107	SPCC Oil Containment	200,000	-	-	-	-	200,000	-	-	-	-	200,000
E-108	Vehicle Replacement (div. 270)	-	-	-	-	-	-	-	-	-	-	25,000
E-109	Electric Renewables	-	-	-	-	555,800	555,800	297,651	464,224	-	-	2,172,874
<b>Sub Total</b>		\$ 1,812,200	\$ 2,164,200	\$ 2,836,200	\$ 3,262,300	\$ 2,432,200	\$12,507,100	\$ 2,410,251	\$ 2,520,024	\$ 2,166,000	\$24,612,474	
Capital Projects - Common Allocation		\$ 511,515	\$ 652,813	\$ 552,299	\$ 603,872	\$ 638,097	\$ 2,958,596	\$ 480,466	\$ 527,303	\$ 519,935	\$ 5,498,279	
<b>Total Capital Improvements</b>		\$ 2,323,715	\$ 2,817,013	\$ 3,388,499	\$ 3,866,172	\$ 3,070,297	\$15,465,696	\$ 2,890,717	\$ 3,047,327	\$ 2,685,935	\$30,110,753	

# CAPITAL IMPROVEMENT PLAN ELECTRIC

Projects to be Funded by Infrastructure Fees				
Description	Region I	Region II	Region III	Total
E-70 Cassadaga 115 kVa	\$ 2,000,000	\$ 2,000,000	\$ 400,000	\$ 4,400,000
E-72 Reconductor Pioneer Trail	166,000			166,000
E-79 Reconductor N. Glencoe		135,000		135,000
E-80 Venetian Bay Alternate Feed	395,000			395,000
E-81 T & D Facilities Station Upgrades	1,077,000	3,159,000		4,236,000
E-82 Williamson Boulevard Electric Improv	518,000			518,000
E-85 Extend Service to New Develop	1,000,000	1,000,000		2,000,000
	\$ 5,156,000	\$ 6,294,000	\$ 400,000	\$11,850,000

Projects and dollar amounts subject to change as necessary

Description	FIVE YEAR					TEN YEAR					10-Year Total	
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019		
Mandatory Transfer to R&R	\$ 1,617,800	\$ 1,798,802	\$ 1,676,396	\$ 1,693,899	\$ 1,711,306	\$ 1,728,922	\$ 1,745,840	\$ 1,762,536	\$ 1,789,298	\$ 1,808,553	\$ 1,827,811	\$ 18,333,352
Additional Transfer to R&R	705,915	1,018,211	712,103	672,273	\$803,191	874,437	816,680	830,530	793,805	877,382	877,382	8,104,527
Alternate Financing	-	-	1,000,000	1,500,000	555,800	389,728	465,471	297,651	464,224	-	-	4,672,874
<b>Total</b>	\$ 2,323,715	\$ 2,817,013	\$ 3,388,499	\$ 3,866,172	\$ 3,070,297	\$ 2,993,087	\$ 3,027,991	\$ 2,890,717	\$ 3,047,327	\$ 2,685,935	\$ 2,685,935	\$30,110,753

# CAPITAL IMPROVEMENT PLAN WATER

Item #	Description	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	10-Year Total
W-25	Upgrade Under-sized water mains	\$ 210,000	\$ 220,500	\$ 232,000	\$ 244,000	\$ 256,000	\$ 269,000	\$ 282,000	\$ 296,000	\$ 311,000	\$ 327,000	\$ 2,647,500
W-26	New Customers Water Line Extensions	25,000	30,000	40,000	40,000	40,000	40,000	45,000	45,000	45,000	50,000	400,000
W-45	Road Proj Reloc/Interagency Coop. Proj	150,000	150,000	200,000	200,000	200,000	300,000	400,000	400,000	400,000	400,000	2,800,000
W-125	Water Production Equipment and Fixtures	157,250	191,900	218,875	186,700	238,200	207,000	265,500	230,000	291,600	251,200	2,238,225
W-126	Water Distribution Equip and Fixtures	240,200	252,400	264,900	278,300	292,200	307,000	322,000	337,000	353,000	372,000	3,019,000
W-127	WTP Hypochlorite Conversion	250,000	250,000	-	-	-	-	-	-	-	-	500,000
W-128	Future Water Supply	100,000	-	40,000	244,000	205,000	422,000	546,000	778,000	967,000	-	3,302,000
	<b>Sub Total</b>	\$ 1,132,450	\$ 1,094,800	\$ 995,775	\$ 1,193,000	\$ 1,231,400	\$ 1,545,000	\$ 1,860,500	\$ 2,086,000	\$ 2,367,600	\$ 1,400,200	\$ 14,906,725
	Capital Projects - Common Allocation	\$ 282,930	\$ 363,226	\$ 289,999	\$ 302,244	\$ 246,694	\$ 309,318	\$ 251,240	\$ 280,533	\$ 265,505	\$ 286,970	\$ 2,878,658
	<b>Total Capital Improvements</b>	\$ 1,415,380	\$ 1,458,026	\$ 1,285,774	\$ 1,495,244	\$ 1,478,094	\$ 1,854,318	\$ 2,111,740	\$ 2,366,533	\$ 2,633,105	\$ 1,687,170	\$ 17,785,383

Item #	Description	Projects to be Funded by Infrastructure Fees			Total
		Region I	Region II	Region III	
W-28	Develop New Central Wellfield	\$ 3,352,000	\$ -	\$ -	\$ 3,352,000
W-40	Upgrade Glencoe WTP Filters	975,000	-	-	975,000
W-105	Subaqueous Main Crossing Indian River	-	-	715,000	715,000
W-106	South Glencoe Road Water Main	-	405,000	-	405,000
W-107	Art Center & Sunset Water Main Improv	-	293,000	-	293,000
W-109	Ingham & Enterprise Water Main Improv	-	419,000	-	419,000
W-110	Pioneer Trail Water Main Extension A	-	686,000	-	686,000
W-111	Eslinger Road Water Main Extension	-	673,000	-	673,000
W-112	US Highway 1 Water Main Improvements	-	331,000	-	331,000
W-114	Pioneer Trail Water Main Ext B & C	-	392,500	-	785,000
W-115	West New Blvd N&S Extension	-	-	-	669,000
W-117	Western Storage Tank and Pump Station	-	-	-	3,266,000
W-124	Horizontal Wells/ASR/Deep Well	-	2,000,000	-	2,000,000
		\$ 8,654,500	\$ 5,199,500	\$ 715,000	\$ 14,569,000

Projects and dollar amounts subject to change as necessary

# CAPITAL IMPROVEMENT PLAN

## WATER

Description	2010-2019										10-Year Total		
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019			
Transfer from Restricted R&R	\$ 250,000	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000
Mandatory Transfer from R&R	516,744	573,241	523,632	533,168	546,856	565,672	581,618	597,984	619,213	641,462	641,462	641,462	5,699,589
Additional Transfer from R&R	648,636	484,785	522,142	518,076	526,238	566,646	584,122	590,549	646,892	645,708	645,708	645,708	5,733,794
Alternate Financing/Grants	\$ 1,415,380	\$ 1,458,026	\$ 1,285,774	\$ 1,495,244	\$ 1,478,094	\$ 1,478,094	\$ 1,478,094	\$ 1,478,094	\$ 1,478,094	\$ 1,478,094	\$ 1,478,094	\$ 1,478,094	\$ 14,780,940
<b>Total</b>	\$ 2,930,740	\$ 3,173,052	\$ 2,811,548	\$ 3,026,512	\$ 3,059,282	\$ 3,107,034	\$ 3,150,546	\$ 3,187,177	\$ 3,233,003	\$ 3,266,533	\$ 3,266,533	\$ 3,266,533	\$ 32,666,533



# CAPITAL IMPROVEMENT PLAN WASTE WATER/REUSE

Projects to be Funded by Infrastructure Fees					
Description	Region I	Region II	Region III	Total	
NW Regional Lift Station/Force Main	\$ 2,030,000	\$ -	\$ -	\$ 2,030,000	
SW Regional Lift Station/Force Main	1,973,000	-	-	1,973,000	
Sachs Regional Lift Station/Force Main	1,049,000	-	-	1,049,000	
Becks Regional Lift Station/Force Main	1,194,000	-	-	1,194,000	
Snyma South Lift Station/Force Main	153,000	-	-	153,000	
Village Square Lift Station/Force Main	538,000	-	-	538,000	
Reuse Intercon w/Port Orange	621,000	-	-	621,000	
2 MG Reclaim Water Tank/Pump Station	3,042,000	-	-	3,042,000	
Pioneer Trail 16" Reclaim Pipeline	1,775,000	-	-	1,775,000	
SR 44 - 16" Reclaim Main Extension	822,000	-	-	822,000	
SW Reclaim Loop	1,087,000	-	-	1,087,000	
	\$11,350,000	\$ 2,934,000	\$ -	\$ 14,284,000	

Projects and dollar amounts subject to change as necessary

Description	2010	2011	2012	2013	2014	5-Year Total	2015	2016	2017	2018	2019	10-Year Total
	Transfer from Restricted R&R	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Mandatory Transfer from R&R	592,753	625,219	587,047	597,274	612,452	3,014,745	633,193	650,612	667,124	689,272	712,409	6,367,355
Additional Transfer from R&R	102,202	148,042	45,355	65,810	13,457	374,866	99,031	14,228	109,077	21,721	139,086	758,009
Alternate Financing/Grants	1,275,000	3,716,000	3,169,000	4,942,000	5,242,000	18,344,000	12,226,000	7,045,000	1,373,000	1,128,000	1,260,000	41,376,000
<b>Total</b>	\$ 1,969,955	\$ 4,489,261	\$ 3,801,402	\$ 5,605,084	\$ 5,867,909	\$21,733,611	\$12,958,224	\$ 7,709,840	\$ 2,149,201	\$ 1,838,993	\$ 2,111,495	\$48,501,364

# CAPITAL IMPROVEMENT PLAN INFORMATION TECHNOLOGY & ADMINISTRATION

Item #	Description	FIVE YEAR					TEN YEAR					
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	10-Year Total
		5-Year Total					10-Year Total					
IT-3	Municipal and U.C. Communications	\$ 225,000	\$ 236,000	\$ 248,000	\$ 260,000	\$ 273,000	\$ 287,000	\$ 301,000	\$ 316,000	\$ 332,000	\$ 349,000	\$ 2,827,000
IT-15	Accounting/CSMIS System	50,000	50,000	50,000	50,000	100,000	100,000	75,000	75,000	75,000	100,000	725,000
IT-16	AM/FM (GIS) Software&Equip	250,000	500,000	250,000	250,000	100,000	100,000	100,000	100,000	100,000	100,000	1,850,000
IT-17	Work Mgmt/Document Retention	-	50,000	100,000	50,000	25,000	20,000	20,000	25,000	20,000	15,000	325,000
IT-19	Disaster Recovery Apps & Equip	50,000	50,000	100,000	50,000	25,000	25,000	50,000	25,000	25,000	50,000	450,000
IT-20	Production Environment	350,000	350,000	275,000	325,000	400,000	375,000	350,000	350,000	450,000	325,000	3,550,000
IT-21	OSI SCADA Expansion					150,000	150,000					150,000
IT-22	Telephone System	15,000	-	-	-	-	100,000	-	-	-	-	115,000
IT-23	Mobile Radios				100,000							100,000
IT-24	SCADA Upgrades	75,000	100,000	50,000	25,000	25,000	100,000	50,000	100,000	25,000	75,000	625,000
CE-2	Vehicle Replacement (Engineering)	-	-	22,000	-	-	-	-	-	-	25,000	47,000
CF-1	Vehicle Replacement (Meter Dept)	32,000	-	-	18,000	-	20,000	-	22,000	-	24,000	116,000
CF-2	Warehouse Improvements	-	4,500	4,500	44,500	4,500	-	-	-	-	-	58,000
	<b>Total</b>	\$ 1,047,000	\$ 1,340,500	\$ 1,099,500	\$ 1,172,500	\$ 1,102,500	\$ 1,127,000	\$ 946,000	\$ 1,013,000	\$ 1,027,000	\$ 1,063,000	\$10,938,000

Description	FIVE YEAR					TEN YEAR					
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	10-Year Total
	5-Year Total					10-Year Total					
Additional Transfer from R&R	\$ 1,047,000	\$ 1,340,500	\$ 1,099,500	\$ 1,172,500	\$ 1,102,500	\$ 1,127,000	\$ 946,000	\$ 1,013,000	\$ 1,027,000	\$ 1,063,000	\$10,938,000
Alternate Financing	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	\$ 1,047,000	\$ 1,340,500	\$ 1,099,500	\$ 1,172,500	\$ 1,102,500	\$ 1,127,000	\$ 946,000	\$ 1,013,000	\$ 1,027,000	\$ 1,063,000	\$10,938,000