

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
Public Art

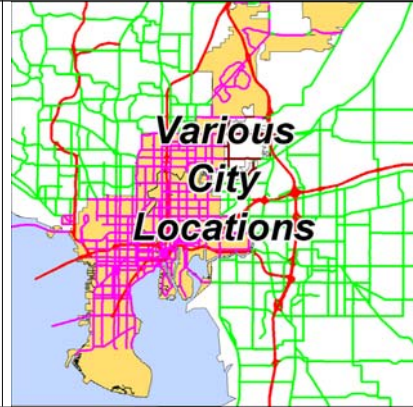
RESPONSIBLE DEPARTMENT:
Water

LOCATION:
Various - See Below

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for the contribution to public art per ordinance #8860-A for eligible projects funded with water funds.



INDEX CODE: WT0143BAB

PROJECT ID: WT-06-014

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$60,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

The Public Art Committee recommends to the mayor the amount of funds to be allocated for selection, commissioning, acquisition, and installation of individual works of art to be incorporated as part of the municipal construction project for which the funds were appropriated.

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
Ozone Compartment Isolations

RESPONSIBLE DEPARTMENT:
Water

LOCATION:
7125 North 30th Street

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for the isolation of the two ozone compartments. In the current design of the two ozone contactors, the effluent discharge compartment is common to both. This has proven to be a safety and maintenance problem for the annual cleaning of the contactors. Transient ozone from the contactor left in service migrates into the other contactor drained for cleaning. For the safety of employees performing the function of annual cleaning and replacement of ozone diffusers, the cross connection between the two contactors will be eliminated.



INDEX CODE: WT0343BCU

PROJECT ID: WT-07-012

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$1,200,000						\$1,200,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
Distribution Upgrade and Relocation with DPW

RESPONSIBLE DEPARTMENT:
Water

LOCATION:
Various - See Below

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for the upgrade and relocation of water mains in conjunction with the public works (DPW), wastewater and stormwater departments. These utilities coordination projects are comprised of capital improvements within the city's rights-of-way. When these improvements are in conflict with existing services and mains, the water department is impacted and subsequent relocation and / or replacement of water mains is required.



INDEX CODE: WT0443BAB

PROJECT ID: WT-06-005

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$3,000,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

LOCATIONS UNDER CONSIDERATION INCLUDE:

40th Street Segment C
Columbus Drive Bridge
Other locations to be determined

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
42" / 36" DIP Transmission Main

RESPONSIBLE DEPARTMENT:
Water

LOCATION:
7125 North 30th Street

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for a new ductile iron pipe (DIP) transmission main running north from the David L. Tippin Water Treatment Facility. Hydraulic modeling indicates the transmission of flow north is above the capacity of the existing 30-inch transmission main. The benefits of this new main are as follows:

- 1) Pressure increases in the Busch Gardens area.
- 2) Reduced pipeline velocities north and south of the treatment plant.
- 3) Increased remote tank fill rates to meet current and future demands.
- 4) Less future use of wholesale water resulting in cost savings.
- 5) Will help to meet operational standards at the Hillsborough County Interconnect.

This is a two-year project with \$1 million funded in FY06.



INDEX CODE: WT0443BAK

PROJECT ID: WT-06-015

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$2,000,000						\$2,000,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
Treatment Improvements

RESPONSIBLE DEPARTMENT:
Water

LOCATION:
7125 North 30th Street

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for: the installation of two additional variable frequency drives for the large high service pumps; northwest repump tank painting; replacing valve actuators for high service pump ball valves 1-4; replacing the venturi meter on the 48" transmission piping leaving the David L. Tippin Water Treatment Facility (DLTWTF); rehabilitating the current drain valves for the numbers 5 and 6 basins at DLTWTF; emergency generator fuel tanks area improvement; and installation of roll-up hurricane shutters at the DLTWTF maintenance building that has 1940 vintage windows that are susceptible to damage by strong winds.



INDEX CODE: WT0443BAR

PROJECT ID: WT-07-022

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$575,000	\$475,000	\$475,000	\$200,000	\$200,000	\$200,000	\$2,125,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
Fire Protection / Undersized Main Replacement

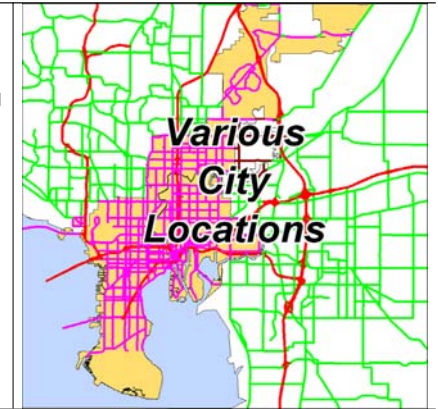
RESPONSIBLE DEPARTMENT:
Water

LOCATION:
Various - See Below

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for the installation of fire hydrants and the replacement of undersized water distribution mains in the department's service area. Undersized mains include all pipes having a diameter of four inches or less. Undersized mains are primarily made of lined cast iron and are vulnerable to breaks because they were historically constructed with brittle materials. Most of these mains are 2.25 inches in diameter and have been in the system between 30 and 60 years. In addition, replacement of undersized mains allows the department to maximize operating water pressure to increase customer satisfaction as well as improve community fire protection.



INDEX CODE: WT0443BBB

PROJECT ID: WT-07-001

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$1,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$11,000,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

LOCATIONS UNDER CONSIDERATION INCLUDE:

- 5th Street: Interbay Boulevard to 890 feet North
- Wyoming Avenue: Sheridan Avenue to MacDill Avenue
- Wisconsin Avenue: Himes Avenue to Sheridan Avenue
- Iowa Avenue: Himes Avenue to Sheridan Avenue
- Ohio Avenue: Main Street to Sheridan Avenue
- Main Street: Sherwood Avenue to Iowa Avenue
- Martin Street: Leila Avenue to Tyson Avenue
- Tyson Avenue: Martin Street to Wallace Street
- Leila Avenue: Lynwood Avenue to Sheridan Avenue
- Tyson Avenue: Wallace Avenue to Sheridan Avenue
- Rogers Avenue: Sheridan Avenue to 6th Avenue
- Wallace Avenue: Sheridan Avenue to 6th Avenue
- Leila Avenue: Wallace Avenue to 6th Avenue

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
New Fire Services

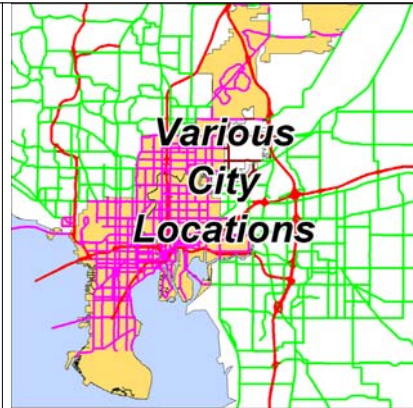
RESPONSIBLE DEPARTMENT:
Water

LOCATION:
Various - See Below

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for the installation of new fire services and backflow prevention devices throughout the water department's service area. These projects are generally installed in easements on customer property. When new customers apply for fire protection service, applications are reviewed, and a service commitment is made by the water department. Payment of the appropriate fees is provided by the customer and a fire line project is then designed and constructed. This project is 100 percent customer driven.



INDEX CODE: WT0443CBL

PROJECT ID: WT-06-011

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$3,000,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

New fire services are requested primarily in commercial establishments including old buildings being renovated, as well as new buildings such as hotels, restaurants and warehouses. Fire lines are required in commercial establishments by the insurance industry, Tampa Fire Rescue and county fire departments. Specific locations are not known in advance. This project is customer-driven, with the volume, frequency and timing beyond the control of the water department.

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
Customer Required Main Extensions

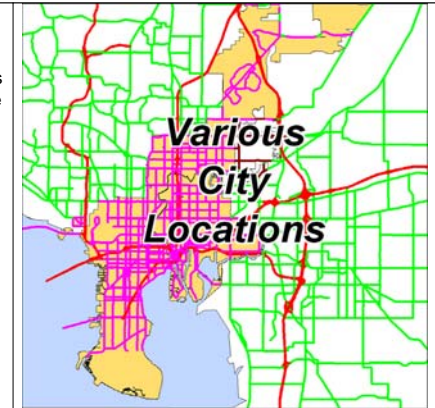
RESPONSIBLE DEPARTMENT:
Water

LOCATION:
Various - See Below

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for construction of water mains throughout the water department service area. These mains provide requested service to new customers and expand the city water system. When new customers apply for water service, applications are reviewed and a service commitment is made by the water department. Payment of the appropriate fees is provided by the customer and the water main project is then designed and constructed. Many of these customers are currently served by wells. This activity is 100 percent customer-driven.



INDEX CODE: WT0443CBM

PROJECT ID: WT-06-012

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$650,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$3,650,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

Customers request service in new growth areas such as New Tampa and within the city / county service area. Some prospective customers are currently being serviced by wells and would like to be serviced by the Tampa Water Department. These projects are activated upon customer request and locations are not known in advance. This project is customer-driven, with the volume, frequency and timing beyond the control of the water department.

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
New Metered Services

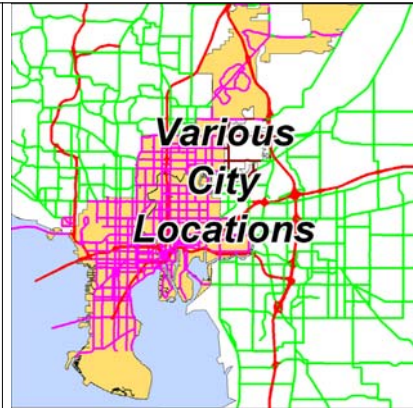
RESPONSIBLE DEPARTMENT:
Water

LOCATION:
Various - See Below

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for the installation of new metered water services and backflow prevention devices throughout the water department service area. When new customers apply for water services, applications are reviewed and a service commitment is made by the water department. Payment of the appropriate fees is provided by the customer and a new meter project is then designed and constructed.



INDEX CODE: WT0443CBR

PROJECT ID: WT-06-010

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$1,050,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

New metered services are requested primarily in commercial establishments including old buildings being renovated as well as new buildings such as hotels, restaurants, and warehouses. Specific locations are not known in advance. This project is customer-driven, with the volume, frequency and timing beyond the control of the water department.

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
Water Main Rehabilitation / Replacement

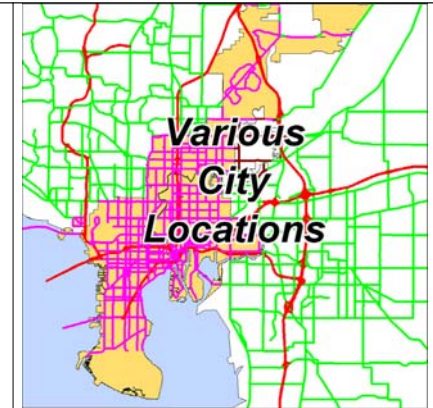
RESPONSIBLE DEPARTMENT:
Water

LOCATION:
Various - See Below

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for the rehabilitation or replacement of unlined cast iron pipes throughout the water service area. These mains continue to deteriorate and do not meet current department design and construction standards. These pipes are 60 to 115 years old and it is estimated that approximately 160 miles of pipe are candidates for replacement or rehabilitation. Rehabilitation options include directional drilling of new mains using alternative materials such as high density polyethylene.



INDEX CODE:

PROJECT ID: WT-07-002

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$1,350,000	\$1,350,000	\$1,625,000	\$1,625,000	\$1,625,000	\$1,625,000	\$7,575,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

LOCATIONS UNDER CONSIDERATION INCLUDE:

- 28th Avenue: 15th Street to 16th Street
- Bayshore Boulevard: Bay to Bay Boulevard to Euclid Avenue
- El Prado Avenue: MacDill Avenue to Bayshore Boulevard
- Julian Avenue: MacDill Avenue to Bayshore Boulevard
- Concordia Avenue: El Prado Avenue to Palmira Avenue
- Ferdinand Avenue: Bay to Bay Boulevard to Palmira Avenue
- MacDill Avenue: Bay to Bay Boulevard to Palmira Avenue
- Palmira Avenue: MacDill Avenue to Himes Avenue
- Washington Street: Florida Avenue to Brush Street
- Morgan Street: Washington Street to Channelside Drive
- Franklin Street: Whiting Street to 100 feet south of Brerein Street
- Brerein Street: Franklin Street to Morgan Street

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
System Wide Upgrades

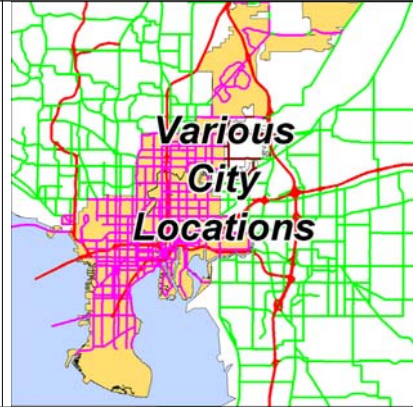
RESPONSIBLE DEPARTMENT:
Water

LOCATION:
Various - See Below

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for necessary water system improvements due to problems and demands placed on the water system. These improvements increase the delivery of potable water from the treatment plant into the water system. They may include replacing "dead end" water mains throughout the distribution system to alleviate water pressure issues and quality concerns. The results will be improved pressure for customer use and fire protection.



INDEX CODE: PROJECT ID: WT-07-007

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

These are multiple projects having various design and construction schedules which have not been determined at this time.

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
Programmable Logic Controllers Replacement

RESPONSIBLE DEPARTMENT:
Water

LOCATION:
7125 North 30th Street

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for replacing the plant's programmable logic controllers, circuitry and all instrumentation that make up the supervisory control and data acquisition system which controls all plant treatment and pumping processes. Due to their age and changes in technology the upgrade will occur over a three year period starting in FY08.



INDEX CODE: PROJECT ID: WT-07-033

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:	\$500,000	\$500,000	\$500,000				\$1,500,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
Analog to Digital Conversions

RESPONSIBLE DEPARTMENT:
Water

LOCATION:
7125 North 30th Street

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for converting the department's analog communication systems to digital subscriber lines and broadband. The analog communication system that the water department uses to communicate with its remote instrumentation systems is obsolete and very unreliable. This will involve changing analog equipment at the David L. Tippin Water Treatment Facility as well as in the field to accept digital signals. The approximate cost per location will be \$1,000. The total cost for the conversion will be approximately \$300,000 over two years.



INDEX CODE: PROJECT ID: WT-07-029

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:		\$150,000	\$150,000				\$300,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

FY07-12 CAPITAL IMPROVEMENT PROJECT

PROJECT TITLE:
Hypochlorite and Aqueous Ammonia Conversion

RESPONSIBLE DEPARTMENT:
Water

LOCATION:
17101 Dona Michelle Drive

FUNDING SOURCE:
Water Fund

PROJECT DESCRIPTION:

This project provides for converting to liquid hypochlorite and aqueous ammonia for safety concerns as gaseous chlorine and anhydrous ammonia are severe inhalation threats. This conversion will be at the Morris Bridge Water Treatment Facility. The David L. Tippin Water Treatment Facility is in the process of undergoing this same conversion.



INDEX CODE: PROJECT ID: WT-07-023

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
FUNDING:		\$100,000					\$100,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							