

ENTERPRISE CAPITAL

This section includes the capital program for three enterprise funds - Aviation, Port Everglades, and Water and Wastewater. The Aviation capital program is supported primarily by grants, bond proceeds, airport operating revenues, and fund balance. The Port Everglades capital program is primarily supported by fund balance, bond proceeds, state and federal grants, and operating revenues. The Water and Wastewater capital program is funded primarily by user charges and bond proceeds.

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AVIATION CAPITAL

	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>
REVENUES					
Interest Income	509,960	297,850	474,580	148,630	373,310
Less 5%	(25,500)	(14,890)	(23,730)	(7,430)	(18,670)
Transfers from Aviation Operating Fund	11,536,500	6,440,000	3,477,000	4,460,000	4,305,000
Passenger Facilities Charges (PFC)	29,354,400	30,640,110	31,953,870	32,326,570	35,228,320
Fund Balance	50,996,330	29,785,190	47,458,260	14,862,980	37,330,750
Federal Grants (includes TSA)	57,000	0	53,600,000	6,755,000	6,000,000
State Grants	56,500	0	200,000	0	0
Future Bond Proceeds / Loans	295,000,000	0	258,440,000	0	0
TOTAL REVENUES	<u>\$387,485,190</u>	<u>\$67,148,260</u>	<u>\$395,579,980</u>	<u>\$58,545,750</u>	<u>\$83,218,710</u>
APPROPRIATIONS					
<u>Airfields</u>					
Rehabilitation of North Airfield Pavements (Including 10L-28R & EMAS Beds)	42,000,000	0	0	0	0
Air Traffic Control Tower	0	1,000,000	5,000,000	0	45,000,000
Taxiway M Construction	0	0	0	0	12,000,000
Taxiway T Construction	0	0	0	7,720,000	0
Subtotal	<u>42,000,000</u>	<u>1,000,000</u>	<u>5,000,000</u>	<u>7,720,000</u>	<u>57,000,000</u>
<u>Airport Access Roadway System</u>					
Airport Access Roadway System	0	0	100,000,000	0	0
Subtotal	<u>0</u>	<u>0</u>	<u>100,000,000</u>	<u>0</u>	<u>0</u>
<u>Terminals</u>					
Gate Expansion	5,000,000	0	245,000,000	0	0
Terminal 4 Federal Inspection Service (FIS) Facility	40,000,000	0	0	0	0
Terminal Modernization	250,000,000	0	0	0	0
Subtotal	<u>295,000,000</u>	<u>0</u>	<u>245,000,000</u>	<u>0</u>	<u>0</u>

AVIATION CAPITAL

	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>
<u>General and Administrative</u>					
RTR Relocation	2,750,000	2,250,000	0	0	0
Security Infrastructure Project	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
North East Quadrant Traffic Improvements	1,500,000	0	0	0	0
FLL Stormwater Upgrades	0	0	13,440,000	0	0
Information Technology Software & Services Renewal and Replacement	0	375,000	375,000	375,000	375,000
Information Systems Renewal & Replacement	0	2,885,000	1,225,000	1,040,000	2,175,000
Maintenance Building Enhancements	600,000	0	0	0	0
Roof Replacement - Cargo Building	450,000	0	0	0	0
Tenant Relocations	0	500,000	0	500,000	0
In-Roadway Crosswalk Warning Lights	300,000	0	0	0	0
ADA Transition Plan	200,000	0	0	0	0
Facility Improvement Allowance	0	750,000	750,000	750,000	750,000
Mobile Application Development	250,000	250,000	250,000	250,000	250,000
Subtotal	<u>8,050,000</u>	<u>9,010,000</u>	<u>18,040,000</u>	<u>4,915,000</u>	<u>5,550,000</u>
<u>Machinery, Equipment, Vehicles & Other</u>					
Security Access Control System	4,000,000	0	0	0	0
Aircraft Rescue and Fire Fighting (ARFF) Truck Replacements	2,000,000	0	0	0	0
Vehicle Replacement	245,000	235,000	165,000	155,000	120,000
Equipment Replacement	520,000	510,000	227,000	360,000	405,000
New Vehicles	190,000	0	0	0	0
New Equipment	500,000	0	0	0	0
Loading Bridges	0	8,000,000	8,000,000	8,000,000	0
Subtotal	<u>7,455,000</u>	<u>8,745,000</u>	<u>8,392,000</u>	<u>8,515,000</u>	<u>525,000</u>

AVIATION CAPITAL

	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>
<u>Parking</u>					
Parking Improvements	2,900,000	0	0	0	0
Public Parking EMV Compliance	600,000	0	0	0	0
Parking Access and Revenue Control System Replacement	715,000	605,000	250,000	50,000	230,000
Remote Parking Lot Renovation	850,000	150,000	0	0	0
Subtotal	<u>5,065,000</u>	<u>755,000</u>	<u>250,000</u>	<u>50,000</u>	<u>230,000</u>
<u>North Perry Projects</u>					
Vehicle Replacement	0	30,000	0	0	0
Equipment Replacement	0	150,000	35,000	15,000	0
Airfield Generator	130,000	0	0	0	0
Runway 10R-28L Safety Enhancements	0	0	4,000,000	0	0
Subtotal	<u>130,000</u>	<u>180,000</u>	<u>4,035,000</u>	<u>15,000</u>	<u>0</u>
<u>Reserves</u>					
Reserves	29,785,190	47,458,260	14,862,980	37,330,750	19,913,710
Subtotal	<u>29,785,190</u>	<u>47,458,260</u>	<u>14,862,980</u>	<u>37,330,750</u>	<u>19,913,710</u>
TOTAL APPROPRIATIONS	<u>\$387,485,190</u>	<u>\$67,148,260</u>	<u>\$395,579,980</u>	<u>\$58,545,750</u>	<u>\$83,218,710</u>

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Aviation

PROJECT

Airfields

Funding Summary

	Actual Expenses Through FY 15	Modified FY 16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Rehabilitation of North Airfield Pavements (Including 10L-28R & EMAS Beds)	0	30,000,000	900,000	17	27,100,000	17	14,000,000	17	72,000,000
Air Traffic Control Tower	0	0	6,000,000	MY	45,000,000	21	0	---	51,000,000
Taxiway M Construction	0	0	0	---	12,000,000	21	0	---	12,000,000
Taxiway T Construction	0	0	820,000	20	6,000,000	20	900,000	20	7,720,000

Project Comments

- In FY17, an additional \$42 million will be provided for the study, design, and construction for the rehabilitation of North Airfield pavements, including 10L-28R and connecting taxiways. The rehabilitation of the runway ensures that the pavement is kept in good operational condition. The rehabilitation of the runway will take place in FY18, following the completion of the Noise Mitigation program.
- In FY18 - FY21, \$51 million is provided for the planning, design and construction of a new air traffic control tower. The construction of a new tower will allow controllers to have a complete view of the airfield and runway approaches and will also allow the Broward County Aviation Department to develop in the west side area where the current tower resides.
- In FY21, \$12 million is provided for the rehabilitation of Taxiway M.
- In FY20, \$7.7 million is provided for the rehabilitation of Taxiway T.

Funding Schedule

Funding Sources	FY17	FY18	FY19	FY20	FY21	TOTAL
Fund Balance/Aviation Funds/Interest	0	0	0	965,000	0	965,000
Federal/State Grants	0	0	0	6,755,000	6,000,000	12,755,000
Passenger Facilities Charges (PFC)	42,000,000	1,000,000	5,000,000	0	51,000,000	99,000,000
TOTAL	42,000,000	1,000,000	5,000,000	7,720,000	57,000,000	112,720,000

Funding Requirements

Rehabilitation of North Airfield Pavements (Including 10L-28R & EMAS Beds)	42,000,000	0	0	0	0	42,000,000
Air Traffic Control Tower	0	1,000,000	5,000,000	0	45,000,000	51,000,000
Taxiway M Construction	0	0	0	0	12,000,000	12,000,000
Taxiway T Construction	0	0	0	7,720,000	0	7,720,000
TOTAL	42,000,000	1,000,000	5,000,000	7,720,000	57,000,000	112,720,000

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Aviation

PROJECT

Airport Access Roadway System

Funding Summary

	Actual Expenses Through FY 15	Modified FY 16 Budget	FY17-21						Total
			Design		Construction		Other		
			FY	FY	FY	FY	FY	FY	
Airport Access Roadway System	0	0	10,000,000	19	80,000,000	19	10,000,000	19	100,000,000

Project Comments

- In FY19, \$100 million is provided to improve the airport access roadway system by providing better access to the airport, circulation among the four terminals, the Rental Car Center, the airport's three parking garages and efficient egress to the interstate highway system. This project will address deficient roadway service levels, congestion and circulation problems caused by inadequate accessibility and insufficient capacity.

Funding Schedule

<u>Funding Sources</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Federal/State Grants	0	0	50,000,000	0	0	50,000,000
Passenger Facilities Charges (PFC)	0	0	50,000,000	0	0	50,000,000
TOTAL	0	0	100,000,000	0	0	100,000,000

<u>Funding Requirements</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Airport Access Roadway System	0	0	100,000,000	0	0	100,000,000
TOTAL	0	0	100,000,000	0	0	100,000,000

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Aviation

PROJECT

Terminals

Funding Summary

	Actual Expenses Through FY 15	Modified FY 16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Gate Expansion	0	0	5,000,000	17	245,000,000	19	0	---	250,000,000
Terminal 4 Federal Inspection Service (FIS) Facility	1,743,950	48,256,050	0	---	40,000,000	17	0	---	90,000,000
Terminal Modernization	29,154,101	220,845,899	0	---	250,000,000	17	0	---	500,000,000

Project Comments

- In FY17 and FY19, \$250 million is provided for the design and construction of seven additional gates to accommodate the demand for passenger facilities at Fort Lauderdale International Airport.
- In FY17, an additional \$40 million is provided to increase the overall footprint of the existing Terminal 4 Federal Inspection Service (FIS) facility to enhance passenger throughput and overall customer satisfaction. The proposed expansion includes upgrading and expanding processing areas and the baggage claim area.
- In FY17, an additional \$250 million is provided to improve the level of service of multiple terminal components including but not limited to the security checkpoints, restrooms, holdrooms, concessions layout, design, wayfinding and finishes of the building. This funding will be for construction of projects resulting from the studies regarding modernizations to the terminals.

Funding Schedule

Funding Sources	FY17	FY18	FY19	FY20	FY21	TOTAL
Future Bond Proceeds / Loans	295,000,000	0	245,000,000	0	0	540,000,000
TOTAL	295,000,000	0	245,000,000	0	0	540,000,000

Funding Requirements	FY17	FY18	FY19	FY20	FY21	TOTAL
Gate Expansion	5,000,000	0	245,000,000	0	0	250,000,000
Terminal 4 Federal Inspection Service (FIS) Facility	40,000,000	0	0	0	0	40,000,000
Terminal Modernization	250,000,000	0	0	0	0	250,000,000
TOTAL	295,000,000	0	245,000,000	0	0	540,000,000

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Aviation

PROJECT

General and Administrative

Funding Summary

	Actual Expenses Through FY 15	Modified FY 16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
RTR Relocation	0	0	250,000	17	4,750,000	MY	0	---	5,000,000
Security Infrastructure Project	0	0	0	---	10,000,000	MY	0	---	10,000,000
North East Quadrant Traffic Improvements	0	0	1,500,000	17	0	---	0	---	1,500,000
FLL Stormwater Upgrades	346,755	1,933,245	0	---	13,440,000	19	0	---	15,720,000
Information Technology Software & Services Renewal and Replacement	0	722,695	0	---	0	---	1,500,000	MY	2,222,695
Information Systems Renewal & Replacement	0	3,189,470	0	---	0	---	7,325,000	MY	10,514,470
Maintenance Building Enhancements	0	0	0	---	0	---	600,000	17	600,000
Roof Replacement - Cargo Building	0	0	0	---	450,000	17	0	---	450,000
Tenant Relocations	0	1,833,550	0	---	0	---	1,000,000	MY	2,833,550
In-Roadway Crosswalk Warning Lights	0	0	0	---	300,000	17	0	---	300,000
ADA Transition Plan	0	0	200,000	17	0	---	0	---	200,000
Facility Improvement Allowance	0	2,392,756	0	---	0	---	3,000,000	MY	5,392,756
Mobile Application Development	0	400,000	0	---	0	---	1,250,000	MY	1,650,000

Project Comments

- In FY17 and FY18, \$5 million is provided to relocate the Remote Transmitter/Receiver (RTR), and the Automated Surface Weather Observing System and the Wind Measuring Equipment to accommodate proposed airport development.
- In FY17-21, \$10 million is funded to do a property analysis to determine assets in need of protection, identify risks that may affect assets, determine the probability of the identified risks, and to determine the impact or effect on the Broward County Aviation Department. These tasks are necessary to develop a comprehensive property recovery plan.
- In FY17, \$1.5 million funds significant improvements in Northeast Quadrant of the FLL airport in the Gate 100 operations by incorporating a parking lot for BCAD Maintenance vehicles secure side, while retaining the current location of Gate 100. The new lot provides additional space for secure storage of maintenance vehicles, thereby removing them from the Gate 100 traffic.
- In FY19, \$13,440,000 will be provided for stormwater upgrades. In order to take advantage of limited airfield property for expansion, converting landscape infiltration areas to paved aircraft use areas requires removal of the stormwater. This project includes studying a pumping program, developing alternative pumping options, completing permitting and design, and constructing pump stations to move stormwater off the airfield.
- In FY18 - FY21, \$1.5 million is provided for information technology software & services renewal and replacement.
- In FY18 - FY21, \$7,325,000 is provided for information systems (hardware) renewal and replacement.

BROWARD COUNTY CAPITAL BUDGET

- In FY17, \$600,000 is provided for equipment for the wash down area in the Maintenance Building, and to install a concrete pad and bins for storage of sand and rock.
- In FY17, \$450,000 is provided for a roof replacement for the Cargo facility, which houses numerous tenants.
- In FY18 and FY20, \$1 million is provided for tenant relocations as needed to support Aviation's initiatives for balancing passenger operations in the terminal buildings.
- In FY17, \$300,000 is provided to procure and install in-roadway warning lights at all crosswalks, roadway warning signs, flashing beacons, rumble strips leading up to the crosswalks. These features will ensure that the crosswalks are more visible, are safer, and provide better protection for pedestrians using the crosswalks.
- In FY17, \$200,000 is funded to provide consulting services relating to complying with the Americans with Disabilities Act (ADA). The project will include a review of the previously completed ADA Transition Plan, Broward County Aviation Division (BCAD) facilities, airport terminals and parking, construction plans for upcoming terminal improvements, and public programs, policies and procedures.
- In FY18-21, an additional \$3 million is provided to fund projects stemming from the needs of the various divisions, which may include projects beyond the Maintenance department's staff capabilities, and may require a contractor to perform.
- In FY17 - FY21, an additional \$1,250,000 is provided to develop the FLL Mobile Application to include advertising opportunities for BCAD and FLL concessionaires. In addition, the mobile app can be further developed to provide customer service functionality to include discounts and incentives for our travelers and accurate wait time information at the checkpoints.

BROWARD COUNTY CAPITAL BUDGET**Funding Schedule**

<u>Funding Sources</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Fund Balance/Aviation Funds/Interest Income	3,000,000	4,760,000	2,600,000	2,915,000	3,550,000	16,825,000
Passenger Facilities Charges (PFC)	5,050,000	4,250,000	2,000,000	2,000,000	2,000,000	15,300,000
Future Bond Proceeds / Loans	0	0	13,440,000	0	0	13,440,000
TOTAL	8,050,000	9,010,000	18,040,000	4,915,000	5,550,000	45,565,000

Funding Requirements

RTR Relocation	2,750,000	2,250,000	0	0	0	5,000,000
Security Infrastructure Project	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	10,000,000
North East Quadrant Traffic Improvements	1,500,000	0	0	0	0	1,500,000
FLL Stormwater Upgrades	0	0	13,440,000	0	0	13,440,000
Information Technology Software & Services Renewal and Replacement	0	375,000	375,000	375,000	375,000	1,500,000
Information Systems Renewal & Replacement	0	2,885,000	1,225,000	1,040,000	2,175,000	7,325,000
Maintenance Building Enhancements	600,000	0	0	0	0	600,000
Roof Replacement - Cargo Building	450,000	0	0	0	0	450,000
Tenant Relocations	0	500,000	0	500,000	0	1,000,000
In-Roadway Crosswalk Warning Lights	300,000	0	0	0	0	300,000
ADA Transition Plan	200,000	0	0	0	0	200,000
Facility Improvement Allowance	0	750,000	750,000	750,000	750,000	3,000,000
Mobile Application Development	250,000	250,000	250,000	250,000	250,000	1,250,000
TOTAL	8,050,000	9,010,000	18,040,000	4,915,000	5,550,000	45,565,000

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Aviation

PROJECT

Machinery, Equipment, Vehicles and Other

Funding Summary

	Actual Expenses Through FY 15	Modified FY 16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Security Access Control System	0	0	0	---	0	---	4,000,000	17	4,000,000
Aircraft Rescue and Fire Fighting (ARFF) Truck Replacements	0	0	0	---	0	---	2,000,000	17	2,000,000
Vehicle Replacement	0	0	0	---	0	---	920,000	MY	920,000
Equipment Replacement	0	0	0	---	0	---	2,022,000	MY	2,022,000
New Vehicles	0	0	0	---	0	---	190,000	17	190,000
New Equipment	0	0	0	---	0	---	500,000	17	500,000
Loading Bridges	0	0	0	---	24,000,000	MY	0	---	24,000,000

Project Comments

- In FY17, \$4 million is provided to replace the current outdated Airport Access Control System with newer and more efficient technology. The integration of new proximity cards for employee access will require the compatibility of a newer access control system.
- In FY17, \$2 million is provided to replace existing Aircraft Rescue and Fire Fighting (ARFF) trucks 310 and 710.
- In FY17 - FY21, \$920,000 is provided for the replacement of vehicles.
- In FY17 - FY21, \$2,022,000 is provided for the replacement of various pieces of equipment that have reached their service life.
- In FY17, \$190,000 is provided to purchase six new vehicles to support the transportation needs in the areas of maintenance and security.
- In FY17, \$500,000 is provided for new equipment to support the maintenance needs of the Aviation Department.
- In FY18 - FY20, \$24 million will be provided to replace Passenger Boarding Bridges in Concourses B, C, D, E, & F. There are a total of 47 bridges that need to be replaced because of the end of their life cycle.

BROWARD COUNTY CAPITAL BUDGET**Funding Schedule**

<u>Funding Sources</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Fund Balance/Aviation Funds/Interest Income	3,455,000	745,000	392,000	515,000	525,000	5,632,000
Passenger Facilities Charges (PFC)	4,000,000	8,000,000	8,000,000	8,000,000	0	28,000,000
TOTAL	7,455,000	8,745,000	8,392,000	8,515,000	525,000	33,632,000

Funding Requirements

Security Access Control System	4,000,000	0	0	0	0	4,000,000
Aircraft Rescue and Fire Fighting (ARFF) Truck Replacements	2,000,000	0	0	0	0	2,000,000
Vehicle Replacement	245,000	235,000	165,000	155,000	120,000	920,000
Equipment Replacement	520,000	510,000	227,000	360,000	405,000	2,022,000
New Vehicles	190,000	0	0	0	0	190,000
New Equipment	500,000	0	0	0	0	500,000
Loading Bridges	0	8,000,000	8,000,000	8,000,000	0	24,000,000
TOTAL	7,455,000	8,745,000	8,392,000	8,515,000	525,000	33,632,000

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Aviation

PROJECT

Parking

Funding Summary

	Actual Expenses Through FY 15	Modified FY 16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Parking Improvements	0	0	0	---	0	---	2,900,000	17	2,900,000
Public Parking EMV Compliance	0	0	0	---	0	---	600,000	17	600,000
Parking Access and Revenue Control System Replacement	0	650,000	0	---	1,850,000	MY	0	---	2,500,000
Remote Parking Lot Renovation	0	0	100,000	17	900,000	MY	0	---	1,000,000

Project Comments

- In FY17, \$2.9 million is provided to relocate employee parking from the Cypress Garage to the current Economy Parking Lot, which has a capacity 4,012 spaces. This will free up spaces for public parking in the Cypress Garage. The Cypress Garage will be reconfigured for public parking on levels 7 and 8 (2,087 long-term spaces) and level 9 (1,056 long-term spaces and roof-top parking).
- In FY17, \$600,000 is provided for new technology to authenticate chip-card transactions. This standard is called Europay, Mastercard and Visa (EMV). The switch to EMV requires adding new transaction processing technology and internal processing systems in addition to complying with new liability rules. This will result in greater protection against consumer fraud.
- In FY17 - FY21, \$1.85 million is provided to upgrade the Parking Access and Revenue Control System to replace end of life components to lengthen system functionality.
- In FY17 - FY18, \$1 million is provided to make the improvements to the remote Economy Parking Lot necessary to relocate the airport tenant employee parking area from the Cypress Garage to the remote Economy Parking Lot. The project will add a newly paved area that will accommodate approximately 350 additional spaces, seal coat and stripe the existing 4,000+ spaces and selectively remove vegetation to increase the capacity.

Funding Schedule

<u>Funding Sources</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Fund Balance/Aviation Funds/Interest Income	5,065,000	755,000	250,000	50,000	230,000	6,350,000
TOTAL	5,065,000	755,000	250,000	50,000	230,000	6,350,000

Funding Requirements

Parking Improvements	2,900,000	0	0	0	0	2,900,000
Public Parking EMV Compliance	600,000	0	0	0	0	600,000
Parking Access and Revenue Control System Replacement	715,000	605,000	250,000	50,000	230,000	1,850,000
Remote Parking Lot Renovation	850,000	150,000	0	0	0	1,000,000
TOTAL	5,065,000	755,000	250,000	50,000	230,000	6,350,000

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Aviation

PROJECT

North Perry Projects

Funding Summary

	Actual Expenses Through FY 15	Modified FY 16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Vehicle Replacement	0	0	0	---	0	---	30,000	18	30,000
Equipment Replacement	0	0	0	---	0	---	200,000	MY	200,000
Airfield Generator	0	0	0	---	0	---	130,000	17	130,000
Runway 10R-28L Safety Enhancements	0	0	200,000	19	3,800,000	19	0	---	4,000,000

Project Comments

- In FY18, \$30,000 is provided for the replacement of vehicles.
- In FY18 - FY20, \$200,000 is provided for the replacement of equipment.
- In FY17, \$130,000 is provided for a replacement generator.
- In FY19, \$4 million is provided for runway 10R-28L safety enhancements. This runway is the main runway at the North Perry Airport. In accordance with the 2009 Airport Master Plan and FDOT's 2012 pavement evaluation study, the pavement's useful life will end in 2019. The scope entails milling and overlay of pavement on the entire runway, replacing runway lighting, electrical duct work, vault upgrades, updating existing incandescent lighting to LED lighting, pavement edge sodding, marking and striping of the pavement.

Funding Schedule

<u>Funding Sources</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Fund Balance/Aviation Funds/Interest Income	16,500	180,000	235,000	15,000	0	446,500
Federal/State Grants	113,500	0	3,800,000	0	0	3,913,500
TOTAL	130,000	180,000	4,035,000	15,000	0	4,360,000

Funding Requirements

Vehicle Replacement	0	30,000	0	0	0	30,000
Equipment Replacement	0	150,000	35,000	15,000	0	200,000
Airfield Generator	130,000	0	0	0	0	130,000
Runway 10R-28L Safety Enhancements	0	0	4,000,000	0	0	4,000,000
TOTAL	130,000	180,000	4,035,000	15,000	0	4,360,000

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Aviation

PROJECT

Reserves

Funding Summary

	Actual Expenses Through FY 15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Aviation Reserves	N/A	N/A	0	---	0	---	149,350,890	MY	149,350,890

Project Comments

- The Aviation capital budget includes approximately \$30 million in reserves, which are carried over from FY16 due to the implementation of multi-year budgeting for Aviation capital.

Funding Schedule

Funding Sources	FY17	FY18	FY19	FY20	FY21	TOTAL
Fund Balance/Aviation Funds/Interest Income	29,785,190	47,458,260	14,862,980	37,330,750	19,913,710	149,350,890
TOTAL	29,785,190	47,458,260	14,862,980	37,330,750	19,913,710	149,350,890
Funding Requirements						
Aviation Reserves	29,785,190	47,458,260	14,862,980	37,330,750	19,913,710	149,350,890
TOTAL	29,785,190	47,458,260	14,862,980	37,330,750	19,913,710	149,350,890

BROWARD COUNTY CAPITAL BUDGET**AVIATION FLL CAPITAL FUND (40350)**

REVENUES	<u>FY17</u>
Interest Income	64,760
Less 5%	(3,240)
Transfer from Aviation Operating Funds	11,520,000
Fund Balance	6,476,720
Bond Proceeds	295,000,000
TOTAL	\$313,058,240
APPROPRIATIONS	
Gate Expansion	5,000,000
Terminal 4 Federal Inspection Service (FIS) Facility	40,000,000
Terminal Modernization	250,000,000
North East Quadrant Traffic Improvements	1,500,000
Maintenance Building Enhancements	600,000
Roof Replacement - Cargo Building	450,000
ADA Transition Plan	200,000
Mobile Application Development	250,000
Aircraft Rescue and Fire Fighting (ARFF) Truck Replacements	2,000,000
Vehicle Replacement	245,000
Equipment Replacement	520,000
New Vehicles	190,000
New Equipment	500,000
Parking Improvements	2,900,000
Public Parking EMV Compliance	600,000
Parking Access and Revenue Control System Replacement	715,000
Remote Parking Lot Renovation	850,000
Reserves	6,538,240
TOTAL	\$313,058,240

AVIATION PFC CAPITAL FUND (40450)

REVENUES	<u>FY17</u>
Interest Income	443,320
Less 5%	(22,170)
Fund Balance	44,331,570
Passenger Facilities Charges (PFC)	29,354,400
TOTAL	\$74,107,120
APPROPRIATIONS	
Rehabilitation of North Airfield Pavements (Including 10L-28R & EMAS Beds)	42,000,000
Security Access Control System	4,000,000
RTR Relocation	2,750,000
Security Infrastructure Project	2,000,000
In-Roadway Crosswalk Warning Lights	300,000
Reserves	23,057,120
TOTAL	\$74,107,120

NORTH PERRY AIRPORT CAPITAL FUND (40550)

	<u>FY17</u>
REVENUES	
Fund Balance	188,040
State and Federal Grants	113,500
Interest Earnings	1,880
Less 5%	(90)
Transfer from Aviation Operating Funds	16,500
TOTAL	\$319,830

APPROPRIATIONS	
Airfield Generator	130,000
Other Restricted Reserves	189,830
TOTAL	\$319,830

PORT EVERGLADES CAPITAL

	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>
REVENUES					
State Grants/Federal Grants	39,724,120	8,656,250	17,600,000	55,020,000	4,089,000
Interest Income	400,000	400,000	400,000	400,000	400,000
Future Bond Proceeds/Financing	131,101,380	143,780,050	74,538,460	43,335,760	0
Transfer from Operating Fund	45,020,000	45,020,000	45,020,000	45,020,000	39,263,530
Less 5%	(20,000)	(20,000)	(20,000)	(20,000)	(20,000)
Fund Balance	27,389,470	0	0	0	0
TOTAL REVENUES	<u>\$243,614,970</u>	<u>\$197,836,300</u>	<u>\$137,538,460</u>	<u>\$143,755,760</u>	<u>\$43,732,530</u>
APPROPRIATIONS					
<u>General Infrastructure Facilities</u>					
Miscellaneous Infrastructure Improvements	500,000	500,000	500,000	500,000	500,000
Utility Infrastructure Improvements	550,000	550,000	550,000	550,000	550,000
Annual Fender, Mooring & Bollard Improvements	500,000	500,000	500,000	500,000	500,000
Port Capital Maintenance	500,000	500,000	500,000	500,000	500,000
Subtotal	<u>2,050,000</u>	<u>2,050,000</u>	<u>2,050,000</u>	<u>2,050,000</u>	<u>2,050,000</u>
<u>2014 Master Plan Projects - Midport Improvements</u>					
Cruise Terminal 21	500,000	0	0	0	0
Cruise Terminal 25	25,650,000	25,650,000	0	0	0
Cruise Terminal 29	0	0	0	0	1,250,000
Multimodal Facility - Phase 1	0	3,000,000	16,000,000	21,800,000	0
Tracor Basin Fill	0	0	0	0	4,400,000
New Bulkheads at Berths 16, 17, & 18	1,150,000	1,150,000	11,600,000	11,600,000	0
New Bulkheads at Berths 21 & 22	0	1,900,000	9,300,000	9,300,000	0
Subtotal	<u>27,300,000</u>	<u>31,700,000</u>	<u>36,900,000</u>	<u>42,700,000</u>	<u>5,650,000</u>
<u>2014 Master Plan Projects - Northport Improvements</u>					
Terminal 2 & 4 Parking Garages	0	18,000,000	18,000,000	0	0
New Bulkheads at Berths 1, 2 & 3	1,150,000	11,300,000	11,300,000	0	0
Neo-Bulk Storage Area	3,500,000	0	0	0	0
Slip 1 New Bulkheads at Berths 9 & 10 Phase I	30,950,000	0	0	0	0
Slip 1 New Bulkheads at Berths 7 & 8 Phase II	1,350,000	1,350,000	13,400,000	13,400,000	0
Slip 3 Bulkheads at Berths 14 & 15	0	0	2,500,000	12,450,000	12,450,000
Subtotal	<u>36,950,000</u>	<u>30,650,000</u>	<u>45,200,000</u>	<u>25,850,000</u>	<u>12,450,000</u>

PORT EVERGLADES CAPITAL

	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>
<u>2014 Master Plan Projects - Southport Improvements</u>					
Southport Turning Notch Expansion - Contracts 1 & 2	36,750,000	71,052,750	0	0	0
Super Post Panamax Cranes	28,281,000	0	0	0	0
Phase 9a Container Yard	900,000	8,800,000	0	0	0
Subtotal	<u>65,931,000</u>	<u>79,852,750</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>2014 Master Plan Projects - Portwide</u>					
ACOE Deepening & Widening	45,000,000	41,375,000	41,375,000	52,750,000	2,000,000
Mitigation for Westlake (ACOE Deepening & Widening)	1,800,300	0	0	0	0
Subtotal	<u>46,800,300</u>	<u>41,375,000</u>	<u>41,375,000</u>	<u>52,750,000</u>	<u>2,000,000</u>
<u>Other Port Capital</u>					
Annual Crane Parts & Support	300,000	300,000	300,000	300,000	300,000
Annual Spare Parts for Loading Bridges	80,000	100,000	100,000	100,000	100,000
Crane Improvements/Replacements	0	0	0	8,750,000	8,750,000
General Architectural/Engineering Services	300,000	300,000	300,000	300,000	300,000
General Terminal Improvements	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
In-House Labor & Overhead	600,000	600,000	600,000	600,000	600,000
Matching Funds for Port Security	1,700,000	1,075,000	800,000	360,000	1,452,000
Miscellaneous Terminal Improvements	3,250,000	1,000,000	1,000,000	1,000,000	1,000,000
New Public Works Facility Building	3,600,000	0	0	0	0
New Electrical Sub-Station	2,564,000	0	0	0	0
Port Information Technology Systems	1,372,000	105,000	105,000	105,000	105,000
Renew/Replace Equipment	531,700	1,065,000	1,065,000	1,065,000	1,065,000
Seaport Engineering & Construction Division Expenses	2,585,970	2,663,550	2,743,460	2,825,760	2,910,530
Southport Gantry Cranes Civil/Electrical/Site	39,750,000	0	0	0	0
Terminal 18 Meg & Tunnel Modifications	2,950,000	0	0	0	0
Subtotal	<u>61,583,670</u>	<u>9,208,550</u>	<u>9,013,460</u>	<u>17,405,760</u>	<u>18,582,530</u>
<u>Reserves</u>					
Reserve for Renewal/Replacement	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000
Subtotal	<u>3,000,000</u>	<u>3,000,000</u>	<u>3,000,000</u>	<u>3,000,000</u>	<u>3,000,000</u>
TOTAL APPROPRIATIONS	<u>\$243,614,970</u>	<u>\$197,836,300</u>	<u>\$137,538,460</u>	<u>\$143,755,760</u>	<u>\$43,732,530</u>

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Port Everglades

PROJECT

General Infrastructure Facilities

Funding Summary

	Actual Expenses Through FY15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Miscellaneous Infrastructure Improvements	N/A	N/A	0	--	0	--	2,500,000	MY	2,500,000
Utility Infrastructure Improvements	N/A	N/A	0	--	0	--	2,750,000	MY	2,750,000
Annual Fender, Mooring & Bollard Improvements	N/A	N/A	0	--	0	--	2,500,000	MY	2,500,000
Port Capital Maintenance	N/A	N/A	0	--	0	--	2,500,000	MY	2,500,000

Project Comments

- Funding is provided annually for routine maintenance and improvements for electrical, water and sewer systems, lighting, paved areas, seawalls, piers and docks. In addition, annual funding is provided for upgrades and improvements to the existing fender and mooring systems which protect berths and bulkheads from direct contact with ships.

Funding Schedule

<u>Funding Sources</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Fund Balance/Operating Revenues	2,050,000	2,050,000	2,050,000	2,050,000	2,050,000	10,250,000
TOTAL	2,050,000	2,050,000	2,050,000	2,050,000	2,050,000	10,250,000
Funding Requirements						
Miscellaneous Infrastructure Improvements	500,000	500,000	500,000	500,000	500,000	2,500,000
Utility Infrastructure Improvements	550,000	550,000	550,000	550,000	550,000	2,750,000
Annual Fender, Mooring & Bollard Improvements	500,000	500,000	500,000	500,000	500,000	2,500,000
Port Capital Maintenance	500,000	500,000	500,000	500,000	500,000	2,500,000
TOTAL	2,050,000	2,050,000	2,050,000	2,050,000	2,050,000	10,250,000

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Port Everglades

PROJECT

2014 Master Plan - Midport Improvements

Funding Summary

	Actual Expenses Through FY15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Cruise Terminal 21	0	0	0	--	0	--	500,000	17	500,000
Cruise Terminal 25	276,790	13,623,209	0	--	51,300,000	MY	0	--	65,199,999
Cruise Terminal 29	0	0	1,250,000	21	0	--	0	--	1,250,000
Multimodal Facility - Phase 1	0	0	0	--	40,800,000	MY	0	--	40,800,000
Tracor Basin Fill	0	0	4,400,000	21	0	--	0	--	4,400,000
New Bulkheads at Berths 16, 17, & 18	0	0	2,300,000	MY	23,200,000	MY	0	--	25,500,000
New Bulkheads at Berths 21 & 22	0	0	1,900,000	18	18,600,000	MY	0	--	20,500,000

Project Comments

- In FY17, \$500,000 is budgeted for a programming study for improvements at Cruise Terminal 21.
- \$51.3 million is programmed for improvements to Cruise Terminal 25 to accommodate larger passenger ships including increasing the baggage-handling area.
- \$1.25 million is programmed in FY21 for improvements to Cruise Terminal 29 to achieve greater operational flexibility in handling cruise ships while improving passenger flow and baggage handling.
- \$40.8 million is appropriated in FY18-20 for the design and construction of a multimodal center centrally located for the loading and unloading of buses, shuttles, and taxis. This center will also provide 4,000 additional parking spaces at Midport.
- \$4.4 million is programmed in FY21 for the design of filling the Tracor Basin lengthening Berth 29 to the north.
- \$46 million is programmed over the next four years to replace existing bulkheads at Berths 16, 17, 18, 21 and 22.

BROWARD COUNTY CAPITAL BUDGET**Funding Schedule**

<u>Funding Sources</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Fund Balance/Operating Revenues	4,300,000	13,700,000	17,736,540	15,404,970	5,650,000	56,791,510
Future Bond Proceeds/Financing	23,000,000	18,000,000	19,163,460	27,295,030	0	87,458,490
TOTAL	27,300,000	31,700,000	36,900,000	42,700,000	5,650,000	144,250,000
<u>Funding Requirements</u>						
Cruise Terminal 21	500,000	0	0	0	0	500,000
Cruise Terminal 25	25,650,000	25,650,000	0	0	0	51,300,000
Cruise Terminal 29	0	0	0	0	1,250,000	1,250,000
Multimodal Facility - Phase 1	0	3,000,000	16,000,000	21,800,000	0	40,800,000
Tracor Basin Fill	0	0	0	0	4,400,000	4,400,000
New Bulkheads at Berths 16, 17, & 18	1,150,000	1,150,000	11,600,000	11,600,000	0	25,500,000
New Bulkheads at Berths 21 & 22	0	1,900,000	9,300,000	9,300,000	0	20,500,000
TOTAL	27,300,000	31,700,000	36,900,000	42,700,000	5,650,000	144,250,000

BROWARD COUNTY CAPITAL BUDGET

PROGRAM
Port Everglades

PROJECT
2014 Master Plan - Northport Improvements

Funding Summary

	Actual Expenses Through FY15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Terminal 2 & 4 Parking Garages	0	0	0	--	36,000,000	MY	0	--	36,000,000
New Bulkheads at Berths 1, 2,3	0	1,150,000	1,150,000	17	22,600,000	MY	0	--	24,900,000
Neo-Bulk Storage Area	0	4,200,000	0	---	3,500,000	17	0	--	7,700,000
Slip 1 New Bulkheads at Berths 9 & 10 Phase I	0	52,980,000	0	---	30,950,000	17	0	--	83,930,000
Slip 1 New Bulkheads at Berths 7 & 8 Phase II	0	0	2,700,000	MY	26,800,000	MY	0	--	29,500,000
Slip 3 Bulkheads at Berths 14 & 15	0	0	2,500,000	19	24,900,000	MY	0	---	27,400,000

Project Comments

- \$36 million is programmed in FY18-19 for a new 1,680 space parking garage located west of terminal 4 to serve both Cruise Terminal 4 and Cruise Terminal 2.
- \$23.75 million is programmed in years FY17-19 for the replacement of existing bulkheads at Berths 1, 2, and 3.
- \$3.5 million is programmed in FY17 for the development of a new liquid bulk terminal at the port.
- \$87.85 million is programmed in FY17-21 for the construction of new bulkheads at Berths 7, 8, 9, 10, 14 and 15.

BROWARD COUNTY CAPITAL BUDGET**Funding Schedule**

Funding Sources	FY17	FY18	FY19	FY20	FY21	TOTAL
Fund Balance/Operating Revenues	7,350,000	272,430	16,200,000	9,809,270	12,450,000	46,081,700
State Grants/Federal Grants*	0	6,000,000	0	0	0	6,000,000
Future Bond Proceeds/Financing	29,600,000	24,377,570	29,000,000	16,040,730	0	99,018,300
TOTAL	36,950,000	30,650,000	45,200,000	25,850,000	12,450,000	151,100,000
Funding Requirements						
Terminal 2 & 4 Parking Garages	0	18,000,000	18,000,000	0	0	36,000,000
New Bulkheads at Berths 1, 2,3	1,150,000	11,300,000	11,300,000	0	0	23,750,000
Neo-Bulk Storage Area	3,500,000	0	0	0	0	3,500,000
Slip 1 New Bulkheads at Berths 9 & 10 Phase I	30,950,000	0	0	0	0	30,950,000
Slip 1 New Bulkheads at Berths 7 & 8 Phase II	1,350,000	1,350,000	13,400,000	13,400,000	0	29,500,000
Slip 3 Bulkheads at Berths 14 & 15	0	0	2,500,000	12,450,000	12,450,000	27,400,000
TOTAL	36,950,000	30,650,000	45,200,000	25,850,000	12,450,000	151,100,000

*The timing in which grants are received may vary from the actual appropriations of expenditures relating to capital projects.

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Port Everglades

PROJECT

2014 Master Plan - Southport Improvements

Funding Summary

	Actual Expenses Through FY15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Southport Turning Notch Expansion-Contracts 1 & 2	21,163,592	148,051,737	0	--	107,802,750	MY	0	--	277,018,079
Super Post Panamax Cranes	2,016,820	26,379,756	0	--	0	--	28,281,000	17	56,677,576
Phase 9a Container Yard	0	0	900,000	17	8,800,000	18	0	--	9,700,000

Project Comments

- \$107.8 million is programmed in FY17-18 for the Southport Turning Notch expansion of Berth 30 and the addition of a new berth for the importation of crushed rock aggregate.
- In FY17, \$28.3 million is programmed for the acquisition of a new post-Panama gantry crane to be positioned at the proposed Berth 34/Southport Turning Notch Expansion location.
- In FY17 and FY18, \$9.7 million is programmed for the design and construction of a new container yard (Phase 9a) located west of the McIntosh Road.

Funding Schedule

Funding Sources	FY17	FY18	FY19	FY20	FY21	TOTAL
Fund Balance/Operating Revenues	25,868,000	19,825,270	0	0	0	45,693,270
State Grants/Federal Grants*	14,061,620	0	0	0	0	14,061,620
Future Bond Proceeds/Financing	26,001,380	60,027,480	0	0	0	86,028,860
TOTAL	65,931,000	79,852,750	0	0	0	145,783,750
Funding Requirements						
Southport Turning Notch Expansion-Contracts 1 & 2	36,750,000	71,052,750	0	0	0	107,802,750
Super Post Panamax Cranes	28,281,000	0	0	0	0	28,281,000
Phase 9a Container Yard	900,000	8,800,000	0	0	0	9,700,000
TOTAL	65,931,000	79,852,750	0	0	0	145,783,750

*The timing in which grants are received may vary from the actual appropriations of expenditures relating to capital projects.

BROWARD COUNTY CAPITAL BUDGET

PROGRAM
Port Everglades

PROJECT
2014 Master Plan Projects - Portwide

Funding Summary

	Actual Expenses Through FY15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
ACOE Deepening & Widening	0	0	0	--	182,500,000	MY	0	--	182,500,000
Mitigation for Westlake (ACOE Deepening & Widening)	1,062,313	23,268,031	0	--	1,800,300	17	0	--	26,130,644

Project Comments

- \$182.5 million is programmed over the 5-year capital program to improve navigational channels and deepen the Intracoastal Waterway to allow for larger vessels at Port Everglades.
- \$1.8 million is programmed in FY17 for the construction of Westlake Mitigation for the Army Corp of Engineers (ACOE) Deepening and Widening project.

Funding Schedule

Funding Sources	FY17	FY18	FY19	FY20	FY21	TOTAL
Fund Balance/Operating Revenues	1,800,300	0	0	0	1,000,000	2,800,300
State Grants/Federal Grants*	22,500,000	0	15,000,000	52,750,000	1,000,000	91,250,000
Future Bond Proceeds/Financing	22,500,000	41,375,000	26,375,000	0	0	90,250,000
TOTAL	46,800,300	41,375,000	41,375,000	52,750,000	2,000,000	184,300,300
Funding Requirements						
ACOE Deepening & Widening	45,000,000	41,375,000	41,375,000	52,750,000	2,000,000	182,500,000
Mitigation for Westlake (ACOE Deepening & Widening)	1,800,300	0	0	0	0	1,800,300
TOTAL	46,800,300	41,375,000	41,375,000	52,750,000	2,000,000	184,300,300

*The timing in which grants are received may vary from the actual appropriations of expenditures relating to capital projects.

BROWARD COUNTY CAPITAL BUDGET

PROGRAM
Port Everglades

PROJECT
Other Port Capital Improvements

Funding Summary

	Actual Expenses Through FY15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Annual Crane Parts & Support	N/A	N/A	0	--	0	--	1,500,000	MY	1,500,000
Annual Spare Parts for Loading Bridges	N/A	N/A	0	--	0	--	480,000	MY	480,000
Crane Improvements/Replacements	N/A	N/A	0	--	0	--	17,500,000	MY	17,500,000
General Architectural/Engineering Services	N/A	N/A	0	--	0	--	1,500,000	MY	1,500,000
General Terminal Improvements	N/A	N/A	0	--	0	--	10,000,000	MY	10,000,000
In-House Labor & Overhead	N/A	N/A	0	--	0	--	3,000,000	MY	3,000,000
Matching Funds for Port Security Grant	N/A	N/A	0	--	0	--	5,387,000	MY	5,387,000
Miscellaneous Terminal Improvements	N/A	N/A	0	--	0	--	7,250,000	MY	7,250,000
New Public Works Facility Building	0	392,000	0	--	0	--	3,600,000	17	3,992,000
New Electrical Sub-Station	0	15,000,000	0	--	2,564,000	17	0	---	17,564,000
Port Information Technology Systems	N/A	N/A	0	---	0	---	1,792,000	MY	1,792,000
Renew/Replace Equipment	N/A	N/A	0	---	0	---	4,791,700	MY	4,791,700
Seaport Engineering & Construction Division Expenses	N/A	N/A	0	---	0	---	13,729,270	MY	13,729,270
Southport Gantry Cranes Civil/Electrical/Site	0	49,000,000	0	---	0	---	39,750,000	17	88,750,000
Terminal 18 Meg & Tunnel Modifications	1,536,021	6,930,564	0	---	0	---	2,950,000	17	11,416,585

Project Comments

- \$1.5 million is provided for replacement and improvement for crane parts and support.
- \$480,000 is provided over the course of the 5-year capital program for spare parts for loading bridges, continued maintenance of the port's terminals, buildings and loading bridges.
- \$17.5 million is programmed in FY20-21 for crane upgrades, new crane hardware and increasing lifting capacity.
- \$1.5 million is programmed over the course of the 5-year capital program for general architectural and engineering services.
- \$17.25 million is programmed in FY17-21 for general and miscellaneous improvements to cruise terminals.
- In FY17, \$3.6 million is programmed for the construction of a new public works building.
- In FY17, \$2.6 million is budgeted for the construction of an electrical distribution sub-station to address current and future electrical power needs at the port.
- Annual funding is provided for equipment, software and services to maintain an optimum technological environment. Improved technology will provide for greater operational efficiencies.
- Funding is provided in FY17-21 for the Seaport Engineering and Construction Division. Funding for personal services, on-going operating and one-time capital expenses is provided for the staff of 20, which includes architects, engineers, planners, environmentalists and support staff.
- \$39.75 million is programmed in FY17 for the construction of a new waterside and landside girders, upgrades to existing waterside girders and associated civil, electrical and site improvements as well as a new switchgear building for the new Southport cranes.
- \$2.95 million in FY17 is budgeted for modifications to the Terminal 18 passenger loading bridge mobile elevated gangways (MEG) and adds length to the fixed tunnel connecting Terminal 18 to cruise ships.

BROWARD COUNTY CAPITAL BUDGET

Funding Schedule

Funding Sources	FY17	FY18	FY19	FY20	FY21	TOTAL
Fund Balance/Operating Revenues	28,421,170	6,552,300	6,413,460	15,135,760	15,493,530	72,016,220
State Grants/Federal Grants*	3,162,500	2,656,250	2,600,000	2,270,000	3,089,000	13,777,750
Future Bond Proceeds/Financing	30,000,000	0	0	0	0	30,000,000
TOTAL	61,583,670	9,208,550	9,013,460	17,405,760	18,582,530	115,793,970
Funding Requirements						
Annual Crane Parts & Support	300,000	300,000	300,000	300,000	300,000	1,500,000
Annual Spare Parts for Loading Bridges	80,000	100,000	100,000	100,000	100,000	480,000
Crane Improvements/Replacements	0	0	0	8,750,000	8,750,000	17,500,000
General Architectural/Engineering Services	300,000	300,000	300,000	300,000	300,000	1,500,000
General Terminal Improvements	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	10,000,000
In-House Labor & Overhead	600,000	600,000	600,000	600,000	600,000	3,000,000
Matching Funds for Port Security Grant	1,700,000	1,075,000	800,000	360,000	1,452,000	5,387,000
Miscellaneous Terminal Improvements	3,250,000	1,000,000	1,000,000	1,000,000	1,000,000	7,250,000
New Public Works Facility Building	3,600,000	0	0	0	0	3,600,000
New Electrical Sub-Station	2,564,000	0	0	0	0	2,564,000
Port Information Technology Systems	1,372,000	105,000	105,000	105,000	105,000	1,792,000
Renew/Replace Equipment	531,700	1,065,000	1,065,000	1,065,000	1,065,000	4,791,700
Seaport Engineering & Construction Division Expenses	2,585,970	2,663,550	2,743,460	2,825,760	2,910,530	13,729,270
Southport Gantry Cranes Civil/Electrical/Site	39,750,000	0	0	0	0	39,750,000
Terminal 18 Meg & Tunnel Modifications	2,950,000	0	0	0	0	2,950,000
TOTAL	61,583,670	9,208,550	9,013,460	17,405,760	18,582,530	115,793,970

*The timing in which grants are received may vary from the actual appropriations of expenditures relating to capital projects.

BROWARD COUNTY CAPITAL BUDGET

PROGRAM
Port Everglades

PROJECT
Port Everglades Reserves

Funding Summary

	Actual Expenses Through FY15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Reserve for Renewal/Replacement	N/A	N/A	0	--	0	--	15,000,000	MY	15,000,000

Project Comments

- \$15 million is programmed for reserve for renewal and replacement over the 5 year capital program.

Funding Schedule

<u>Funding Sources</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Fund Balance/Operating Revenues	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
TOTAL	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
<u>Funding Requirements</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Reserve for Renewal/Replacement	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
TOTAL	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000

WATER AND WASTEWATER CAPITAL

	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>
REVENUES					
User Fees	27,329,070	30,102,920	36,126,030	13,067,560	9,249,580
Capital Recovery Charges	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Future Bond Proceeds	139,351,870	54,800,000	77,000,000	9,000,000	0
TOTAL REVENUES	<u>\$168,680,940</u>	<u>\$86,902,920</u>	<u>\$115,126,030</u>	<u>\$24,067,560</u>	<u>\$11,249,580</u>

APPROPRIATIONS

Retail Water & Wastewater

Administrative Campus Facilities Replacement	300,000	0	0	0	0
Admin Complex Roofing	88,950	0	0	0	0
Admin. Complex Roof, Bldgs. 2, 3, 4, 5 & 6	2,800,000	0	0	0	0
Automatic Meter Reading (AMR) Technology	0	250,000	0	0	0
Capital Project Support	1,073,370	1,073,370	1,073,370	1,073,370	1,073,370
CIS/Utility Billing System	48,000	0	0	0	0
Davis Isles New Sewers & Water Main Replacement	0	140,000	1,540,000	0	0
Developer Agreement Funding	300,000	300,000	300,000	300,000	300,000
District 1 Septic Tank Elimination Area 1-F	186,540	0	0	0	0
District 3A Septic Tank Elimination Area 3A-R	195,020	0	0	0	0
District 3A Septic Tank Elimination Area 3A-S	186,060	0	0	0	0
Emergency Generator Replacement 1A1 & 1B1	149,420	0	0	0	0
Facilities Security System Upgrades	2,520,200	0	0	0	0
Facilities Rehabilitation	300,000	300,000	500,000	300,000	300,000
Facility Chlorination System 3B	350,000	0	0	0	0
High Service Pump Replacement	10,198,000	0	0	0	0
Hillsboro Mile Wastewater System Improvements	6,158,380	0	0	0	0
Incident Command Center HVAC Replacement	450,000	0	0	0	0
Information Technology Disaster Recovery	52,000	0	0	0	0
Intl. Airport Booster Pump Station	3,500,000	0	0	0	0
Lift Station Rehabilitation	2,550,000	1,800,000	1,800,000	1,800,000	1,800,000

WATER AND WASTEWATER CAPITAL

	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>
Master Pump Station 220 Rehabilitation	2,000	0	647,450	1,779,980	0
Master Pump Station 221 Rehabilitation	3,200,190	0	0	0	0
Master Pump Station 226 Improvements	776,000	0	0	0	0
Multi-District Inflow/Infiltration Reduction Program	1,000,000	1,000,000	1,000,000	750,000	750,000
Reclaimed Water Transmission System Expansion	325,000	600,000	0	0	0
Rehabilitation of Treatment Units 1A & 2A	115,000	0	0	0	0
Retail Facility Demolition	750,000	0	0	0	0
Septic Tank Elimination Program	400,000	1,900,000	1,900,000	1,500,000	0
Short Line Extensions & Relocations	950,000	500,000	500,000	500,000	500,000
Sludge Handling System Improvement WTP 1A & 2A	0	3,150,000	0	0	0
UAZ* 108 Water/Sewer Pipe Improvements	0	1,524,090	16,020,000	1,724,000	0
UAZ* 110/111 Water/Sewer Pipe Improvements	2,200,000	17,920,000	11,620,000	900,000	0
UAZ* 113 Water/Sewer Pipe Improvements	33,490,000	3,400,000	0	0	0
UAZ* 122/123 Water/Sewer Pipe Improvements	15,319,000	2,944,000	16,785,000	0	0
UAZ* 362 & 363 Water Main Replacement	1,400,000	0	0	0	0
Water Storage Tank 1A2	0	5,086,640	0	0	0
Water Storage Tank 1B1	4,454,800	0	0	0	0
Water Storage Tank 1B2 Demolition	250,000	0	0	0	0
Water Storage Tank 2A	0	676,000	0	0	0
Water Storage Tank Facility 3A	2,311,000	0	0	0	0
Water System Improvements 3C	0	6,000,000	0	10,000,000	0
Water Treatment Plant Expansion 2A	250,000	0	0	0	3,086,000
Subtotal	<u>98,598,930</u>	<u>48,564,100</u>	<u>53,685,820</u>	<u>20,627,350</u>	<u>7,809,370</u>

WATER AND WASTEWATER CAPITAL

	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>
<u>Regional Treatment</u>					
Capital Project Support	1,709,460	1,709,460	1,709,460	1,709,460	1,709,460
NRWWTP* Capacity Improvement	329,820	0	0	0	0
NRWWTP* Digester Cover #3 Replacement	24,170	0	0	0	0
NRWWTP* Disposal System - Transmission System	49,894,200	0	0	0	0
NRWWTP* - Emergency Power System	3,700,000	0	13,000,000	0	0
NRWWTP* - Facilities Improvements	10,650	29,423,610	45,000,000	0	0
NRWWTP* - HVAC System Replacement	275,500	0	0	0	0
NRWWTP* Load Center and Motor Control Centers	196,900	0	0	0	0
NRWWTP* Modules A, B, & D Fine Bubble Conversion	7,220	0	0	0	0
NRWWTP* Rehabilitation	1,300,000	800,000	800,000	800,000	800,000
Regional Master Meter Improvements	5,312,950	0	0	0	0
Septage Receiving Facility Operations/Admin. Bldg.	1,267,220	0	0	0	0
Subtotal	<u>64,028,090</u>	<u>31,933,070</u>	<u>60,509,460</u>	<u>2,509,460</u>	<u>2,509,460</u>
<u>Regional Transmission</u>					
Capital Project Support	430,750	430,750	430,750	430,750	430,750
Master Pump Station 450 Improvements	647,360	0	0	0	0
Master Pump Station 454 Rehabilitation	34,930	4,325,000	0	0	0
Master Pump Station Controls Upgrade	3,292,870	0	0	0	0
Master Pump Stations Rehabilitation	500,000	500,000	500,000	500,000	500,000
Regional Sewer Air Relief Valves	750,000	650,000	0	0	0
Regional Transmission System Master Plan	0	500,000	0	0	0
Retail Wastewater Meter M-471 Replacement	398,010	0	0	0	0
Subtotal	<u>6,053,920</u>	<u>6,405,750</u>	<u>930,750</u>	<u>930,750</u>	<u>930,750</u>
*NRWWTP - North Regional Wastewater Treatment Plant					
**UAZ - Utility Analysis Zone					
TOTAL APPROPRIATIONS	<u>\$168,680,940</u>	<u>\$86,902,920</u>	<u>\$115,126,030</u>	<u>\$24,067,560</u>	<u>\$11,249,580</u>

BROWARD COUNTY CAPITAL BUDGET

PROGRAM
Enterprise/Water & Wastewater

PROJECT
Retail/New Construction

Funding Summary

	Actual Expenses Through FY15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Administrative Campus Facilities Replacement	97,495	8,835	50,000	17	250,000	17	0	---	406,330
Admin Complex Roofing	138,582	1,171,521	44,090	17	44,860	17	0	---	1,399,053
Admin. Complex Roof, Bldgs. 2, 3, 4,5 & 6	0	100,000	100,000	17	2,700,000	17	0	---	2,900,000
Automatic Meter Reading (AMR) Technology	0	0	0	---	250,000	18	0	---	250,000
Capital Project Support	N/A	N/A	0	---	0	---	5,366,850	MY	5,366,850
CIS/Utility Billing System	13	1,050,000	42,000	17	0	---	6,000	17	1,098,013
Davis Isles New Sewers & Water Main Replacement	0	0	280,000	MY	1,400,000	19	0	---	1,680,000
Developer Agreement Funding	0	600,000	0	---	1,500,000	MY	0	---	2,100,000
District 1 Septic Tank Elimination Area 1-F	0	29,467	30,540	17	156,000	17	0	---	216,007
District 3A Septic Tank Elimination Area 3A-R	0	29,987	30,020	17	165,000	17	0	---	225,007
District 3A Septic Tank Elimination Area 3A-S	0	29,943	30,060	17	156,000	17	0	---	216,003
Emergency Generator Replacement 1A1 & 1B1	76,469	1,328,242	0	---	149,420	17	0	---	1,554,131
Facilities Security System Upgrades	0	3,671,340	0	---	390,720	17	2,129,480	17	6,191,540
Facilities Rehabilitation	1,497	550,000	0	---	1,700,000	MY	0	---	2,251,497
Facility Chlorination System 3B	0	63,000	100,000	17	250,000	17	0	---	413,000
High Service Pump Replacement	1,679	638,000	698,000	17	9,500,000	17	0	---	10,837,679
Hillsboro Mile Wastewater System Improvements	660,377	3,445,260	950,010	17	5,208,370	17	0	---	10,264,017
Incident Command Center HVAC Replacement	569	250,000	50,000	17	400,000	17	0	---	700,569
Information Technology Disaster Recovery	95,116	404,884	0	---	0	---	52,000	17	552,000
Intl. Airport Booster Pump Station	4,869	475,000	0	---	3,500,000	17	0	---	3,979,869
Lift Station Rehabilitation	23,153	1,076,264	750,000	17	9,000,000	MY	0	---	10,849,417
Master Pump Station 220 Rehabilitation	1,038,285	704,011	647,450	19	1,779,980	20	2,000	17	4,171,726
Master Pump Station 221 Rehabilitation	144,569	1,419,838	0	---	3,200,190	17	0	---	4,764,597
Master Pump Station 226 Improvements	109,727	2,213,451	268,000	17	508,000	17	0	---	3,099,178
Multi-District Inflow/Infiltration Reduction Program	5,983,657	5,688,980	0	---	4,500,000	MY	0	---	16,172,637
Reclaimed Water Transmission System Expansion	1,947	6,675,000	925,000	MY	0	---	0	---	7,601,947
Rehabilitation of Treatment Units 1A & 2A	0	1,165,000	115,000	17	0	---	0	---	1,280,000

BROWARD COUNTY CAPITAL BUDGET

PROGRAM

Enterprise/Water & Wastewater

PROJECT

Retail/New Construction (Continued)

Funding Summary

	Actual Expenses Through FY15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Retail Facility Demolition	0	1,089,000	0	---	750,000	17	0	---	1,839,000
Septic Tank Elimination Program	0	1,835,603	1,200,000	MY	4,500,000	MY	0	---	7,535,603
Short Line Extensions & Relocations	4,828	1,150,922	250,000	17	2,700,000	MY	0	---	4,105,750
Sludge Handling System Improvement WTP 1A & 2A	0	0	650,000	18	2,500,000	18	0	---	3,150,000
UAZ* 108 Water/Sewer Pipe Improvements	4,233	199,911	3,268,090	MY	16,000,000	19	0	---	19,472,234
UAZ* 110/111 Water/ Sewer Pipe Improvements	890	400,000	6,640,000	MY	26,000,000	MY	0	---	33,040,890
UAZ* 113 Water/Sewer Pipe Improvements	947	3,050,000	3,890,000	MY	33,000,000	17	0	---	39,940,947
UAZ* 122/123 Water/ Sewer Pipe Improvements	3,858	1,078,000	4,948,000	MY	30,100,000	MY	0	---	36,129,858
UAZ* 362 & 363 Water Main Replacement	125,494	5,287,690	200,000	17	1,200,000	17	0	---	6,813,184
Water Storage Tank 1A2	344,168	3,878,822	937,000	18	4,149,640	18	0	---	9,309,630
Water Storage Tank 1B1	94,075	3,433,309	812,000	17	3,642,800	17	0	---	7,982,184
Water Storage Tank 1B2 Demolition	49,493	149,589	100,000	17	150,000	17	0	---	449,082
Water Storage Tank 2A	23,828	5,875,325	676,000	18	0	---	0	---	6,575,153
Water Storage Tank Facility 3A	1,324,974	6,213,588	736,000	17	1,575,000	17	0	---	9,849,562
Water System Improvements 3C	0	0	6,000,000	18	10,000,000	20	0	---	16,000,000
Water Treatment Plant Expansion 2A	0	0	2,836,000	MY	0	---	500,000	21	3,336,000

*Utility Analysis Zone (UAZ)

Project Comments

- Funding is provided in FY17 for improvements at the WWS Administrative Building, including the main lobby area, elevators, flooring and windows, wall repairs and painting, internal/external building repairs, small equipment replacements, and other miscellaneous repairs.
- Funding is provided in FY17 to replace the roofing at the WWS Administrative Complex which has exceeded its useful life.
- Funding is provided in FY17 to replace roofing at the WWS Administrative Complex on buildings 2, 3, 4, 5 & 6.
- Funding is provided in FY18 to replace water meters in one Utility Analysis Zone (UAZ) with Automated Meter Reading (AMR) technology as Phase 1 of a pilot project.
- Funding for Capital Project Support reimburses the Water and Wastewater Operating Fund for project management, staff review, and other administration costs of capital projects.
- Funding is provided in FY17 to upgrade or replace the existing Energy system, which will include new hardware for product test, development environments as well as redundancy for business continuity.

- Davis Isles is a neighborhood in the City of Dania Beach. Funding is provided in FY18-19 to construct approximately 3,000 linear feet of sanitary sewer, one lift station, and a short run of force main to serve approximately 80 single family homes. While installing the new sewers, approximately 3,200 linear feet of water main that is near the end of its useful life, will be replaced.
- Funding is provided in FY17-21 for the County's portion of lift stations for developer projects, as needed by the County.
- Funding is provided in FY17 to install approximately 700 linear feet of gravity sewer on NE 62nd Court from NE 9th Avenue in the City of Fort Lauderdale to provide service to one property.
- Funding is provided in FY17 to install approximately 400 linear feet of gravity sewer and 400 linear feet of 6-inch water main on SW 28th Terrace and north of SW 45th Street in the City of Fort Lauderdale to provide service to 8 properties.
- Funding is provided in FY17 to install approximately 673 linear feet of gravity sewer on SW 27th Avenue from SW 46th Street and north of SW 45th Street in the City of Fort Lauderdale to provide service to 15 properties.
- Funding is provided in FY17 to replace or upgrade the aging emergency power generators at Water Distribution Facilities 1A1 and 1B1.
- Funding is provided in FY17 to install security systems (surveillance cameras, lighting, card access points, motion and intrusion detection, beam alarms) to provide added safety and physical security to staff and potable water operations, processes, and facilities as outlined in Homeland Security Critical Infrastructure Architecture directives.
- Funding is provided in FY17-21 for required major repairs/replacement of process equipment at the water treatment/distribution facilities that significantly extend the useful life of the equipment. Miscellaneous facility modifications and/or repairs, small consulting studies, and engineering work are also funded from this project to support these facilities.
- Funding is provided in FY17 to upgrade the sodium hypochlorite chemical feed system and add an ammonia sulfate chemical feed system at the 3B storage/pumping facility.
- Funding is provided in FY17 to replace the obsolete high service pump building at Water Distribution Facility 3A with a building that meets current building codes. Project consists of construction of a new high service pump station, electrical room and emergency generator.
- Funding is provided in FY17 for wastewater transmission system improvements in Service District 2 which includes rehabilitating wastewater pumping stations, and replacing force mains, and gravity sewers as appropriate.
- Funding is provided in FY17 to replace the aging and underrated HVAC system at the Incident Command Center (ICC) data center.
- Funding is provided in FY17 to provide an off-site disaster recovery location for mission critical applications and core infrastructure redundancy.
- Funding is provided in FY17 to construct a water booster pumping and rechlorination station at the Ft. Lauderdale - Hollywood International Airport to enhance water pressure and fire flow capabilities at the airport.
- Funding is provided in FY17-21 for lift station rehabilitation projects for which the need arises during the year between budget cycles.
- Funding is provided in FY17, FY19 and FY20 to repair and replace miscellaneous equipment at Master Pump Station 220 in order to maintain the reliability of the system.
- Funding is provided in FY17 to repair and replace miscellaneous equipment and station improvements at Master Pump Station 221 to ensure that the system can support future flows.

- Funding is provided in FY17 to engineer, design, and construct improvements and updates to Master Pump Station 226 to ensure reliability and safety.
- Funding is provided in FY17-21 for the Multi-District Infiltration and Inflow Rehabilitation Project. This project funds the cost-effective reduction of inflow/infiltration in the Water Wastewater retail sewer collection system including the Sewer System Evaluation Study (SSES) and the cost-effective repairs of leaking segments of the sewer system.
- Funding is provided in FY17-FY18 to expand the reclaimed water transmission system to supply reclaimed water for irrigation in Broward County from Lyons Road and along Lox Road to the North Springs Improvement District (NSID).
- Funding is provided in FY17 to rehabilitate the steel components and interior walls of treatment unit No. 2 at WTP1A and units No. 1 and 2 at WTP2A.
- Funding is provided in FY17 to demolish various obsolete water treatment and storage facilities at water treatment plants and distribution facilities. Also, funding is included for general structural improvements at retail facilities, including hurricane hardening.
- Funding is provided in FY17-21 for sewer main projects for the purpose of eliminating septic tanks, and constructing short water mains, as needed.
- Funding is provided in FY17-21 for a variety of small water and sewer main projects, requiring short line extensions and relocations.
- Funding is provided in FY18 to replace/upgrade the aging sludge handling system at WTP 1A and 2A, including vacuum filters, vacuum receivers, silencers, filtrate pumps and other related equipment.
- Funding is provided in FY18-FY20 to replace approximately 34,000 linear feet of water main and 34,000 linear feet of sewer main in UAZ 108, which is located in the City of Lauderdale Lakes.
- Funding is provided in FY17-FY20 to replace approximately 72,000 linear feet of water main and 70,000 linear feet of sewer main in UAZ 110 and UAZ 111, which are located in the City of Lauderdale Lakes.
- Funding is provided in FY17-18 to replace approximately 80,000 linear feet of water main, 62,000 linear feet of sewer main, and 3,000 linear feet of sewer force main in UAZ 113, which is located in the City of Lauderdale Lakes.
- Funding is provided in FY17-19 to replace approximately 61,000 linear feet of water main and 60,000 linear feet of gravity sewer force main in UAZ 122 and UAZ 123, which are located in the City of Lauderdale Lakes.
- Funding is provided in FY17 to replace approximately 49,500 linear feet of 6, 8, 10, 12 & 16 inch water main in UAZ 362 and UAZ 363 in the area west of SW 64th Avenue and south of Pembroke Road.
- Funding is provided in FY18 to construct a 1.5 million gallon potable water storage tank and new variable speed pumping station to replace the existing obsolete 0.5 million gallon tank and pumping station at Water Distribution Facility 1A2, and 1,400 feet of new 20-inch water main to provide additional water storage and supply capacity for the expanded District 1 service area south of Sunrise Boulevard in the City of Lauderhill.
- Funding is provided in FY17 to construct a 2 million gallon potable water storage tank and pumping station with variable speed pumps and emergency power to provide increased potable water storage and pumping capacity at WWS Distribution Facility 1B1. This project is to accommodate projected water demand growth. The tank is located south of McNab Road and west of I-95 in the City of Ft. Lauderdale.
- Funding is provided in FY17 to demolish an elevated water storage tank at WWS Distribution Facility 1B2 and perform related site restoration and improvements.

BROWARD COUNTY CAPITAL BUDGET

- Funding is provided in FY18 for a new 5 million gallon potable water storage tank to replace the existing one million and 0.5 million gallon water tanks, and to make repairs to the existing 5 million gallon water tank at the Water Plant 2A site to accommodate future demand growth. WTP 2A is located south of NE 54 Street and east of Dixie Highway in the City of Pompano Beach.
- Funding is provided in FY17 for the construction of a 2.5 million gallon concrete potable water ground storage tank, sodium hypochlorite disinfection facility, 4-log disinfection and related site demolition. The District 3A Facility is located south of Griffin Road on SW 40th Avenue in the City of Dania Beach.
- Funding is provided in FY18 and FY20 to improve approximately 223,000 feet of undersized water main, to improve fire protection, and to replace about 3,800 old galvanized steel service lines which have reached the end of their design life.
- Funding is provided in FY17 and FY21 for expansion of the treatment capacity of Water Plant 2A to add approximately 6 million gallons per day of reverse osmosis process treatment, based on recommendations from the Alternative Water Supply Master Plan, to meet future demand projections.

Funding Schedule

<u>Funding Sources</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Water and Wastewater Revenues	98,598,930	48,564,100	53,685,820	20,627,350	7,809,370	229,285,570
TOTAL	98,598,930	48,564,100	53,685,820	20,627,350	7,809,370	229,285,570
<u>Funding Requirements</u>						
Design	9,639,720	18,191,090	5,212,450	2,624,000	2,586,000	38,253,260
Construction	85,696,360	29,299,640	47,400,000	16,929,980	3,650,000	182,975,980
Other Capital Costs	3,262,850	1,073,370	1,073,370	1,073,370	1,573,370	8,056,330
TOTAL	98,598,930	48,564,100	53,685,820	20,627,350	7,809,370	229,285,570

BROWARD COUNTY CAPITAL BUDGET

PROGRAM
Enterprise/Water & Wastewater

PROJECT
Regional Treatment

Funding Summary

	Actual Expenses Through FY15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Capital Project Support	N/A	N/A	0	---	0	---	8,547,300	MY	8,547,300
NRWWTP* Capacity Improvement	13,654,292	87,312,541	0	---	329,820	17	0	---	101,296,653
NRWWTP* Digester Cover #3 Replacement	1,019,550	4,307,234	0	---	24,170	17	0	---	5,350,954
NRWWTP* Disposal System - Transmission System	155,446	16,516,745	894,200	17	47,000,000	17	2,000,000	17	66,566,391
NRWWTP* - Emergency Power System	0	0	3,700,000	17	13,000,000	19	0	---	16,700,000
NRWWTP* Facilities Improvements	4,466,460	55,584,686	8,023,610	MY	66,410,650	MY	0	---	134,485,406
NRWWTP* - HVAC System Replacement	3,149	2,500,000	25,500	17	250,000	17	0	---	2,778,649
NRWWTP* Load Center and Motor Control Centers	358,648	5,983,932	196,900	17	0	---	0	---	6,539,480
NRWWTP* Modules A, B, and D Fine Bubble Conversion	308,861	26,980,489	0	---	7,220	17	0	---	27,296,570
NRWWTP* Rehabilitation	905	570,860	500,000	MY	2,500,000	MY	1,500,000	MY	5,071,765
Regional Master Meter Improvements	176,722	456,624	576,400	17	4,736,550	17	0	---	5,946,296
Septage Receiving Facility Operations/Admin. Bldg.	1,631	1,898,474	367,220	17	900,000	17	0	---	3,167,325

*NRWWTP - North Regional Wastewater Treatment Plant

Project Comments

- Funding for capital project support reimburses the Water and Wastewater Operating Fund for project management, staff review, and other administration costs of the capital projects.
- Funding is provided in FY17 for the expansion of the North Regional Water Wastewater Treatment Plant's reclaimed water filter capacity and the addition of two deep injection wells.
- Funding is provided in FY17 for the replacement of a steel cover for Digester No. 3 at the North Regional Wastewater Treatment Plant.
- Funding is provided in FY17 for the design and construction of a reclaimed water line in northern Broward County.
- Funding is provided in FY17 and FY19 to construct Electrical Distribution Building 2 with two 2.5-megawatt generators to support the reclaimed water plant. The project also includes diesel fuel tanks, dual Florida Power & Light feeds, a switchgear, and controls.
- In FY17, FY18, and FY19, funding is provided for miscellaneous infrastructure improvements at North Regional Water Wastewater Treatment Plant (NRWWTP) facilities.

BROWARD COUNTY CAPITAL BUDGET

- In FY17, funding is provided for the replacement of the HVAC system that supports the NRWWTP administration complex and laboratory.
- In FY17, funding is provided for the upgrade and replacement of Load Centers and Motor Control Centers at the NRWWTP facilities.
- Funding is provided in FY17 for the conversion of treatment NRWWTP modules A, B, and D to fine bubble aeration.
- In FY17-21, funding is provided for various rehabilitation projects at the NRWWTP facilities.
- In FY17, funding is provided for new and upgraded wholesale billing meters, and associated telemetry equipment and improvements.
- In FY17, funding is provided to construct and equip a new Septage Receiving Facility Operations and Administration building.

Funding Schedule

<u>Funding Sources</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Water and Wastewater Revenues	64,028,090	31,933,070	60,509,460	2,509,460	2,509,460	161,489,540
TOTAL	64,028,090	31,933,070	60,509,460	2,509,460	2,509,460	161,489,540

Funding Requirements

Design	5,860,220	8,123,610	100,000	100,000	100,000	14,283,830
Construction	53,758,410	21,900,000	58,500,000	500,000	500,000	135,158,410
Other Capital Costs	4,409,460	1,909,460	1,909,460	1,909,460	1,909,460	12,047,300
TOTAL	64,028,090	31,933,070	60,509,460	2,509,460	2,509,460	161,489,540

BROWARD COUNTY CAPITAL BUDGET

PROGRAM
Enterprise/Water & Wastewater

PROJECT
Regional Transmission

Funding Summary

	Actual Expenses Through FY15	Modified FY16 Budget	FY17-21						Total
			Design	FY	Construction	FY	Other	FY	
Capital Project Support	N/A	N/A	0	---	0	---	2,153,750	MY	2,153,750
Master Pump Station 450 Improvements	760,104	6,779,286	0	---	647,360	17	0	---	8,186,750
Master Pump Station 454 Rehabilitation	12,567	364,599	34,930	17	4,325,000	18	0	---	4,737,096
Master Pump Station Controls Upgrade	174,591	603,421	0	---	3,292,870	17	0	---	4,070,882
Master Pump Stations Rehabilitation	411	1,315,000	250,000	MY	1,750,000	MY	500,000	MY	3,815,411
Regional Sewer Air Relief Valves	18,160	749,908	100,000	MY	1,300,000	MY	0	---	2,168,068
Regional Transmission System Master Plan	0	0	500,000	18	0	---	0	---	500,000
Retail Wastewater Meter M-471 Replacement	92,074	647,981	20,570	17	377,440	17	0	---	1,138,065

Project Comments

- Funding for capital project support reimburses the Water Wastewater operating fund for project management, staff review, and other administration costs of the capital projects.
- Funding is provided in FY17 for construction as necessary for improvements and updating of Master Pump Station 450 in the City of Lauderdale Lakes.
- In FY17 and FY18, funding is provided for the repair and replacement of miscellaneous equipment and station improvements at Master Pump Station 454.
- Funding is provided in FY17 to upgrade the existing Master Pump Station control equipment and programming software.
- Funding is provided over the five-year capital program for improvement, renewal, and replacement of equipment related to the Master Pump Station facilities serving the North Regional Wastewater Treatment System.
- Funding is provided during FY17-18 for the installation of 123 air relief valves in maintenance access structures with incidental restoration work for roadway, sidewalk, curb, and swale areas.
- Funding is provided in FY18 for a comprehensive evaluation of pipe condition to enable prioritization of pipe replacement and detect hidden vulnerabilities in the North Regional Wastewater System.
- Funding is provided in FY17 to replace Retail Wastewater Meter M-471 in the City of Pompano Beach.

BROWARD COUNTY CAPITAL BUDGET

Funding Schedule

<u>Funding Sources</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>TOTAL</u>
Water and Wastewater Revenues	6,053,920	6,405,750	930,750	930,750	930,750	15,251,920
TOTAL	6,053,920	6,405,750	930,750	930,750	930,750	15,251,920
 <u>Funding Requirements</u>						
Design	155,500	950,000	50,000	50,000	50,000	1,255,500
Construction	5,367,670	4,925,000	350,000	350,000	350,000	11,342,670
Other Capital Costs	530,750	530,750	530,750	530,750	530,750	2,653,750
TOTAL	6,053,920	6,405,750	930,750	930,750	930,750	15,251,920