

34 Stormwater Master Plan Update

Project Number: 11-187 - 1

The latest comprehensive drainage study and model was completed in 1999. Stormwater modeling techniques have improved drastically since then allowing for better predictions of flooding and water quality analysis. This study will be a tool to plan a new stormwater capital improvements plan.

Request for proposal scope and evaluation criteria were given to the purchasing department in late October 2010. Proposals were due February 3, 2011. Eleven firms submitted RLIs, Chen, Moore & Associates scored the highest. At the commission meeting on March 8th 2011, the City Commission approved the ranking and staff negotiated with Chen Moore for a final scope of work and contract fee.

The contract was approved at the June 28, 2011 commission meeting. "Authorization to Proceed" was given on July 5, 2011. The study is expected take approximately 60 weeks to complete. The following is a listing of the expected milestones:

- October 2011 - Technical Data Support Notebook (Task 1.2)
- February 2012 - Existing Conditions Model (Task 2.2)
- April 2012 - System Improvement Alternative Technical Memorandum (Task 2.5)
- June 2012 - Conceptual Layout and Cost Estimates (Task 3.1)
- August 2012 - Stormwater Master Plan (Task 3.4)
- October 2012 - Updated GIS Stormwater Geodatabase (Task 1.5)
- November 2012 - Facility Plan (Task 4.1)

Total Cost:	\$1,265,000.00			Source of Funding	
FY2012	\$1,225,546.00	Prior Years	\$39,454.00	Stormwater Fund 425	\$1,265,000.00
Managing Department:	Engineering, Utilities (WS or SW)			Total	\$1,265,000.00
Phase:	Design/Study				
Project Manager:	Alessandra Delfico				
Progress this month	March,2012				

The consultant completed the Technical Data Support Notebook and the City provided comments. The survey vertical control and benchmarks are currently underway. As-built survey of the City's stormwater structures is underway. The consultant is updating the GIS stormwater geodatabase to include various stormwater as-built drawings for stormwater improvements throughout the City. The task 2.2 deliverable has been received and is being reviewed.

Person Reporting:	Alessandra Delfico				
Design Consultant:	Chen Moore	Design Time Frame:	July 2011- November 2012		
Design Consultant Start Date:	7/5/2011	Design Consultant Finish Date:	11/9/2012	% Complete:	10%
				Design PO:	113286
Purchase Order	Company:	Paid to date:	Purchase Order Total		
113286	CHEN & ASSOCIATES	\$343,272.17	\$1,241,360.00		
Construction Contractor:	NA	Construction Time Frame:			
Construction Start Date:		Construction End Date:		% Complete:	Construction PO:
				NA	

Approximately 2000 linear feet of French drain, 4500 feet of solid pipe, and 40 inlets are shown in the conceptual design to be placed within NW 5th, 6th, 7th and 8th Streets and NW 6th Court all lying between NW 24th and 27th Avenues. In addition, this project provides for a positive drainage outfall into Esquire Lake.

Total Cost:	\$250,000.00			Source of Funding	
FY2012	\$250,000.00	Prior Years	\$0.00	Stormwater Fund 425	\$250,000.00
Managing Department:	Engineering, Utilities (WS or SW)			Total	\$250,000.00

Phase: Not Initiated
Project Manager: To Be Determined

Progress this month June,2011

None. This project is on hold pending the results of the 2011 stormwater master plan update.

Person Reporting: Alessandra Delfico

Design Consultant: To Be Determined Design Time Frame: 2011

Design Consultant Start Date: Design Consultant Finish Date: % Complete: Design PO:
 50 %

Construction Contractor: Construction Time Frame: 2013

Construction Start Date: Construction End Date: Construction PO:

The Florida Department of Environmental Protection (DEP) added the Pompano Canal to its list of impaired water bodies. DEP added fecal coliform in a draft paper of impaired water bodies in Broward County. In 2006 a test sampling listing the volume of nutrients and phosphorus entering the canal revealed an excessive level of chlorophyll and low dissolved oxygen that exceeded the state's limits. Therefore, the DEP is foreseen to implement a Basin Management Action Plan (BMAP). Last meeting was 11/21/08 with Amy Tracy. No action taken as of 06/30/11.

The City is one of the four major contributing agencies (Broward County, FDOT, and SFWMD) discharging into this water body. Each stakeholder will be responsible in implementing certain best management practices or retrofit protects that will have a beneficial impact on load reduction in the canal.

Total Cost:	\$40,000.00			Source of Funding	
FY2012	\$40,000.00	Prior Years	\$0.00	Stormwater Fund 425	\$40,000.00
Managing Department:	Utilities (WS or SW)			Total	\$40,000.00

Phase: Design/Study

Project Manager: Randy Brown

Progress this month June,2011

No new activity.
The new NPDES permit may compel the DEP to require the basin plan.

Person Reporting: Randy Brown

Design Consultant: N/A Design Time Frame: n/a

Design Consultant Start Date: Design Consultant Finish Date: Design PO: n/a

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

This project consists of constructing stormwater drainage infrastructure to Sub-Basin CT 1-2 (Hunters Run Area) as detailed in the approved Stormwater Master Plan. Drainage improvements will consist of the construction of 17,500 linear feet of a French drain system on in the area bound by Atlantic Boulevard, NW 19th Avenue, Martin Luther King Jr. Boulevard and the CSX railroad.

Total Cost: \$5,790,000.00

Source of Funding

FY2012	\$1,690,000.00	Prior Years	\$0.00	Stormwater Fund 425	\$5,790,000.00
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Managing Department: Engineering, Utilities (WS or SW)

Total	\$5,790,000.00
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Phase: Not Initiated

Project Manager: To Be Determined

Progress this month June,2011

None. Full funding will not be available until 2015.

Person Reporting: To Be Determined

Design Consultant: To Be Determined Design Time Frame: 2013-2014

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

Construction Contractor: To Be Determined Construction Time Frame: 2014

Construction Start Date: Construction End Date: Construction PO:

38 Storm Drain Headwall

Project Number: 08-969 - 1

Repairing of storm drainage headwalls, including the addition of one way valves.

10/1/10 2238 Cypress Bend Drive North Stormwater Headwall completed

NW 18 Avenue and NW 21 Street Headwall completed

12/10/10 Replaced storm drain outfall at 1210 SE 3rd Street

Total Cost: \$158,148.00

Source of Funding

FY2012	\$79,448.00	Prior Years	\$78,700.00	Stormwater Fund 425	\$158,148.00
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Managing Department: Engineering, Utilities (WS or SW)

Total	\$158,148.00
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Phase: Ongoing

Project Manager: Duncan Bethal

Progress this month August,2011

Two existing headwall discovered buried and dysfunctional in the Cypress Bend sub-division at the 2800 Block of North Cypress Bend Drive Designed to convey runoff from City right-of-way.
 Received price quote from Molloy Brothers Inc. for repairs to outfall in the 1400 Block of Cypress Blvd. Waiting for copy of contract extension for City of Fort Lauderdale.

Person Reporting: Duncan Bethal

Design Consultant: N/A Design Time Frame: N/A

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

New Exfiltration Trenches on SE 14th and 15th Streets east of Federal Hwy

Advertising for Bid January 31st 2011 to March 3, 2011.

Construction began June 20,2011.

Total Cost: \$1,037,798.00

Source of Funding

FY2012	\$922,020.00	Prior Years	\$115,778.00	Stormwater Fund 425	\$1,037,798.00
				Total	\$1,037,798.00

Managing Department: Engineering

Phase: Construction

Project Manager: Alessandra Delfico

Progress this month April,2012

Construction is substantially complete.
Final punch list items are being addressed.

Person Reporting: Alessandra Delfico

Design Consultant: C3TS Design Time Frame: 2007-2011

Design Consultant Start Date: 10/11/2007 Design Consultant Finish Date: 6/1/2011 % Complete: 100 % Design PO: 283609

Purchase Order	Company:	Paid to date:	Purchase Order Total
283609	CORZO CASTELLA CARBALLO	\$77,552.00	\$77,552.00

Construction Contractor: GONZALEZ AND SONS EQUIPMENT INC Construction Time Frame: Winter/ Spring of 2010-2011

Construction Start Date: 2/1/2011 Construction End Date: 7/1/2011 % Complete: 100 % Construction PO: 112893

Purchase Order	Company:	Paid to date:	Purchase Order Total
112893	GONZALEZ AND SONS EQUIPMENT INC	\$991,170.75	\$1,259,418.71

Purchase Order	Company:	Paid to date:	Purchase Order Total
112893	GONZALEZ AND SONS EQUIPMENT INC	\$991,170.75	\$1,259,418.71

New Exfiltration Trenches on SE 12th and 13th Streets east of Federal Hwy.

Advertising for Bid January 31st 2011 to March 3, 2011.

Construction began June 20,2011.

Total Cost: \$1,284,599.00

Source of Funding

FY2012	\$646,042.00	Prior Years	\$638,557.00	Stormwater Fund 425	\$1,284,599.00
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Managing Department: Engineering

Total	\$1,284,599.00
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Phase: Construction

Project Manager: Alessandra Delfico

Progress this month April,2012

Construction is substantially complete.
Final punch list items are being addressed.

Person Reporting: Alessandra Delfico

Design Consultant: C3TS

Design Time Frame: 2007-2011

Design Consultant Start Date:	Design Consultant Finish Date:	% Complete:	Design PO:	283608
10/11/2007	6/1/2011	90 %		

Purchase Order	Company:	Paid to date:	Purchase Order Total
283608	CORZO CASTELLA CARBALLO	\$90,810.60	\$93,003.00

Construction Contractor:	GONZALEZ AND SONS EQUIPMENT INC	Construction Time Frame:	Summer 2011 to Spring 2012
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Construction Start Date:	Construction End Date:	% Complete:	Construction PO:	112893
6/20/2011	3/15/2012	90 %		

Purchase Order	Company:	Paid to date:	Purchase Order Total
112893	GONZALEZ AND SONS EQUIPMENT INC	\$991,170.75	\$1,259,418.71

Purchase Order	Company:	Paid to date:	Purchase Order Total
112893	GONZALEZ AND SONS EQUIPMENT INC	\$991,170.75	\$1,259,418.71

Sub basin NC 2-1 is the area bounded by North Cypress Road, NW 21st Street and NW 1st Ave. Broward County is desirous of replacing waterlines in the same area. The City is coordinating the designs.

Total Cost: \$1,139,200.00

Source of Funding

FY2012	\$1,020,854.00	Prior Years	\$118,346.00	Stormwater Fund 425	\$1,139,200.00
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Managing Department: Engineering

Total	\$1,139,200.00
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Phase: Not Initiated

Project Manager: Alessandra Delfico

Progress this month April,2012

The inter-local agreement between the County and City was approved at the January 25th commission meeting. This will allow the County to have the waterline improvements designed. Construction is anticipated in the summer of 2012. The County has contracted to have the waterline improvements designed, the plans are in final permitting.

Person Reporting: Alessandra Delfico

Design Consultant: Chen and Associates

Design Time Frame:

Design Consultant Start Date:	Design Consultant Finish Date:	% Complete:	Design PO: 272931
5/7/2007	11/1/2011	90 %	

Purchase Order	Company:	Paid to date:	Purchase Order Total
272931	CHEN & ASSOCIATES	\$111,495.93	\$158,956.00

Construction Contractor: NA **Construction Time Frame:** Late 2011.

Construction Start Date:	Construction End Date:	% Complete:	Construction PO:
		0 %	

42 Storm Sewer Pipe Rehabilitation

Project Number: 02-831 - 1

Various stormwater rehabilitation projects.

Total Cost: \$2,694,801.00

Source of Funding

FY2012	\$0.00	Prior Years	\$2,694,801.00	Stormwater Fund 425	\$2,694,801.00
				Total	\$2,694,801.00

Managing Department: Utilities (WS or SW)

Phase: Construction

Project Manager: Duncan Bethal

Progress this month August,2011

A list of various drain pipe sizes and location is being created to present to Insituform for pricing. Received piggyback contract extension from Pinellas County continue lining. Locations scheduled next for rehab are.

350 linear feet of 24" drain pipe on NE 2 St between NE 25 Ave and 26 Ave
 300 linear feet of 24" drain pipe on NE 4 St between NE 22 Ave and 24 Ave
 555 linear feet of 15" drain pipe in the 300 Block of East McNabb Road

Proposal has been received and accepted from Insituform. Pipe has been cleaned and video recorded. Contractors waiting for completion of prefabrication lining material.

Person Reporting: Duncan Bethal

Design Consultant: N/A

Design Time Frame: N/A

Design Consultant Start Date:

Design Consultant Finish Date:

Design PO: N/A

Construction Contractor: INSITUFORM

Construction Time Frame:

Construction Start Date: Construction End Date:

Construction PO: 103098

Purchase Order	Company:	Paid to date:	Purchase Order Total
103098	INSITUFORM TECHNOLOGIES INC	\$337,428.60	\$337,428.60

Purchase Order	Company:	Paid to date:	Purchase Order Total
103098	INSITUFORM TECHNOLOGIES INC	\$337,428.60	\$337,428.60