

**Program Name:**Flood Protection

**Project Name:** C-4 Canal Bank Improvements

**Project ID:** 3600

**Lead Agency:** South Florida Water Management District

**Authority:** FEMA/DCA

**Strategic Plan Goal(s) Addressed:** 3.B.1

**Measurable Output(s):** Improve conveyance and level of service protection in the C-4 Basin

**Project Synopsis:**

Sweetwater Flood Protection Berm & Wall: This work involves the construction of a flood protection berm along the north side of the C-4 Canal from SW 107<sup>th</sup> Avenue to SW 97<sup>th</sup> Avenue. The north bank will be raised to a minimum elevation of 8.0 feet (NGVD). This will prevent canal overflows into the city during high canal stages and allow for a pumping system constructed by the city to provide flood protection. The project area is within the C-4 Canal right-of-way from SW 97<sup>th</sup> Avenue to SW 107<sup>th</sup> Avenue.

Belen Phase 2 Flood Protection Berm & Wall: This work involves the construction of a flood protection berm and wall along the north side of the C-4 Canal from SW 130<sup>th</sup> Avenue to SW 122<sup>nd</sup> Avenue. The north bank will be raised to a minimum elevation of 8.0 feet (NGVD). This will prevent canal overflows into the adjacent communities during high canal stages and allow for a pumping system being implemented by Miami-Dade County to provide flood protection. The project area is within the C-4 Canal right-of-way from SW 130<sup>th</sup> Avenue to SW 122<sup>nd</sup> Avenue.

Palmetto Flood Protection Berm & Wall (a.k.a. Miami-Dade Floodwall): This work involves the construction of a flood protection berm and wall along the north side of the C-4 Canal from SW 97<sup>th</sup> Avenue to the Palmetto Expressway. The north bank will be raised to a minimum elevation of 8.0 feet (NGVD). This will prevent canal overflows into the adjacent communities during high canal stages and allow for a pumping system constructed by Miami-Dade County to provide flood protection. This two-mile segment was identified as having low top of bank elevations that would need to be improved for the above improvements to be utilized. This two-mile segment has been surveyed to determine the specific areas where a flood protection berm or wall will be needed. This segment of the canal was not originally included in the C-4 Flood Mitigation Plan. The Palmetto Phase was split into two (2) phases at the final design stage due to easement needs in the Phase 2 portion of the project (SW 82<sup>nd</sup> Ave to SW 87<sup>th</sup> Ave).

Quick Start Floodwall: The portion of this project between SW 94<sup>th</sup> Avenue and SW 92<sup>nd</sup> Avenue is called the "Quick Start Floodwall" component and construction of this component was completed in January 2012. This component was constructed first, because there were very few right-of-way encroachments along this portion of the canal bank and construction was therefore easily expedited.

C-4 Canal Conveyance Improvements: This work involves dredging/deepening one or more segments of the C-4 Canal. The dredging will increase the conveyance capacity of the C-4 and as a result reduce the extent of flooding along the canal banks during major storm events.

**Current Status:** The following projects are complete:

- S-25B Forward Pump Station
- S-26 Forward Pump Station
- C-4 Phase 1 Impoundment (G-420 & G-421)
- C-4 Phase 2 Impoundment (G-422)
- Sweetwater Linear Berm and Safety Fence
- Sweetwater Phase (SW 97<sup>th</sup> Ave to SW 107<sup>th</sup> Ave)

- Belen Conveyance Improvements (dredging project)
- Belen Phase 1 Floodwall (SW 122<sup>nd</sup> Ave. to the Florida Turnpike)
- Belen Phase 2 Flood Protection Berm and Wall (SW 122<sup>nd</sup> Ave to SW 130<sup>th</sup> Ave)
- Quick-Start Floodwall (SW 94<sup>th</sup> Ave. to SW 92<sup>nd</sup> Ave.)
- Updated C-4 Basin Model

The following projects are scheduled to be completed in the near future:

Palmetto Flood Protection Berm

The Palmetto Phase package was split into two (2) phases. Palmetto Phase 1 includes the northerly portions of the C-4 Canal between the Palmetto Expressway & SW82<sup>nd</sup> Ave, SW 87<sup>th</sup> Ave & SW 92<sup>nd</sup> Ave, and SW 94<sup>th</sup> Ave & SW 97<sup>th</sup> Ave. Palmetto Phase 2 includes the northerly portions of the C-4 Canal between SW 82<sup>nd</sup> Ave & SW 87<sup>th</sup> Ave.

- Palmetto Phase 1 design was completed, bid, and awarded. Construction began April 2016 and will be completed by February 2018.
- Palmetto Phase 2 is anticipated to begin February 2017, pending design completion and easement strengthening.

**Project Schedule:**

Start Date: January 2005  
 Finish Date: October 2018

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Planning & Design														
Real Estate														
Construction														

**Actual Expenditures To-Date by SFWMD**

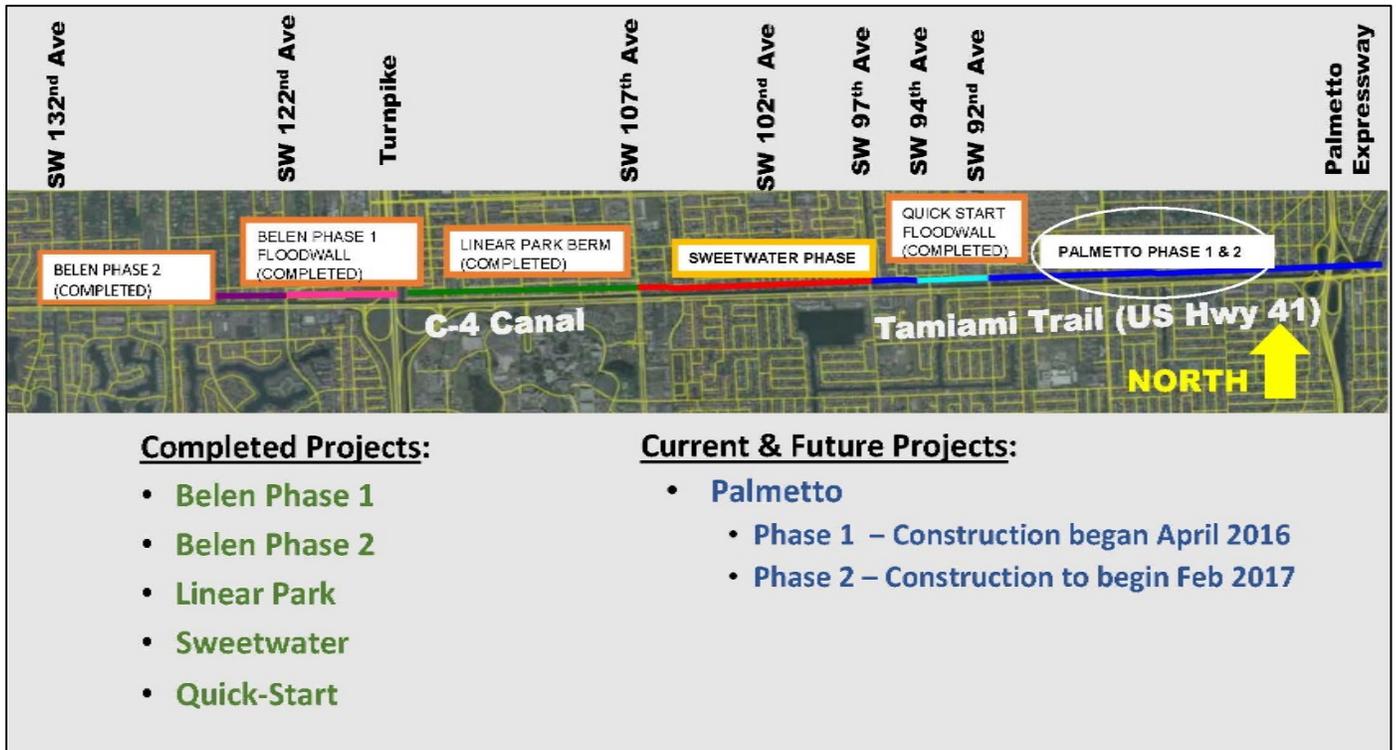
	Exp thru 2009	2010	2011	2012	2013	2014	2015	2016	TOTAL
Federal	\$4,868	\$32,000							\$36,868
SFWMD	\$24,721	\$111,696	\$508,869	\$518,772	\$21,453	\$3,732,715	\$2,119,654	\$46,261	\$5,084,141
Total	\$29,589	\$143,696	\$508,869	\$518,772	\$21,453	\$3,732,715	\$2,119,654	\$46,261	\$5,121,009

\* Updated as of June 20, 2016

Hyperlinks: [C-4 Canal Bank Splash Sheet Facts handout](#)

[C-4 Canal Bank Poster Boards Overview](#)

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**C-4 Canal Bank Improvement Projects**

(SW 8<sup>th</sup> Street, between the Palmetto Expressway and SW 130<sup>th</sup> Ave in Miami-Dade County)