Collier County Stormwater Projects

October 25, 2018



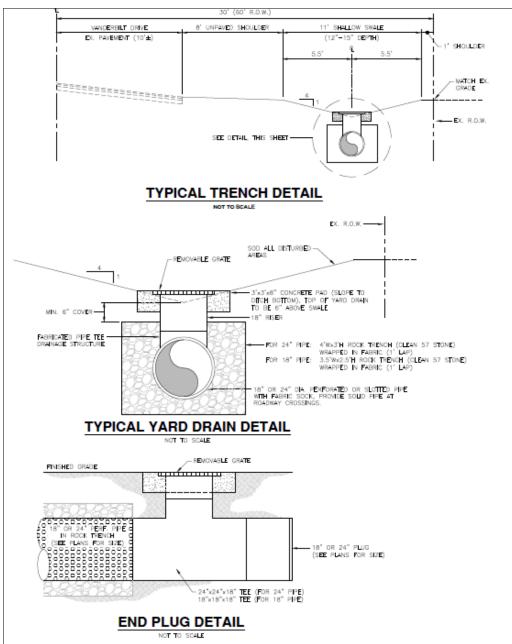
Vanderbilt Drive Cul-de-Sacs SW Improvement Project



- Improvements along:
 - East side of Vanderbilt Drive from Bluebill Ave to Vanderbilt Beach Road
 - Fourteen (14) cul-de-sacs west of Vanderbilt Drive
- On-going construction
 - Contractor: Mitchell & Stark
 - Completion: Aug-2019 (expected)
- Coordinated effort between GMD and PUD
 - Water main replacements
 - Wastewater force main replacements
 - Funded in previous years, no funding in FY19



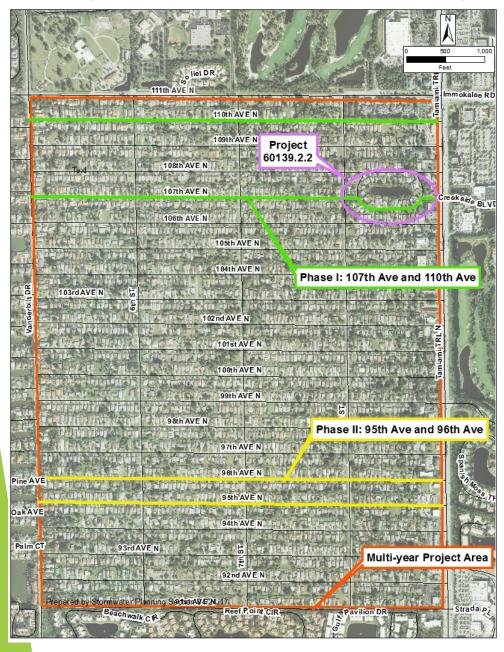
Vanderbilt Drive Cul-de-Sacs SW Proposed Improvement



- Vanderbilt Drive
 - Replace all existing stormwater infrastructure along the east side
 - Perforated pipe placed on gravel bedding to promote exfiltration. And shallow swale on top.
 - Catch basin with deep sumps to capture sediments before reaching Vanderbilt Lagoon.
- Cul-de-Sacs
 - Supplement the existing drainage system with:
 - ► HDPE mainline drain pipe
 - > Yard drains
 - ► New swales
 - New driveway culverts



Naples Park Area SW Improvement Project



- Coordinated effort between GMD and PUD
 - Water main replacements
 - Wastewater forcemain replacements
 - Stormwater Improvements
 - FY19 budget allocation of \$3.2M
 - Approximately \$2.6M anticipated over next 10 years

• Phase I:

- 110th Ave (Vanderbilt Dr. to US 41) and 107th Ave (Vanderbilt Dr. to 8th St.)
 - Status: Complete
 - Contractor: Douglas N. Higgins Inc.
- 107th Ave (8th St. to US 41) 800th block

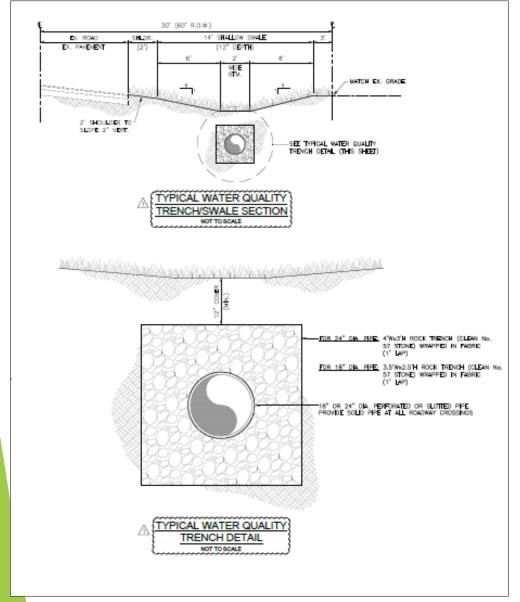
Phase II:

- 95th Ave. Design complete. Bids received Construction expected in 2018
- 96th Ave. Construction expected in 2018

Naples Area SW Improvement Project

- Existing Conditions
 - Combination of open/enclosed swales and culverts
 - Aged infrastructure of various materials and sizes (generally under sized)
 - ► Elevation issues causing inappropriate collection and conveyance of runoff
- Phasing
 - ► Target two (2) streets per fiscal year (north to south)
 - ► Phase I & II Awarded \$750,000 as part of 2015-16 & 2016-17 Legislative Appropriations.
 - Priority is given to streets presenting wastewater and water breakages/malfunctions

Naples Area SW Improvement Project



- Proposed Improvements
 - Removed aged infrastructure
 - Installation of perforated pipe (18" and 24"), yard drains and sedimentation traps with deep sumps to capture sediments.
 - Sections between Vanderbilt Dr and 6th Street North will have perforated pipe placed in gravel water quality trench to allow runoff to percolate.

Vanderbilt Drive Cul-de-Sacs Stormwater Improvements Naples Park Area Stormwater Improvements

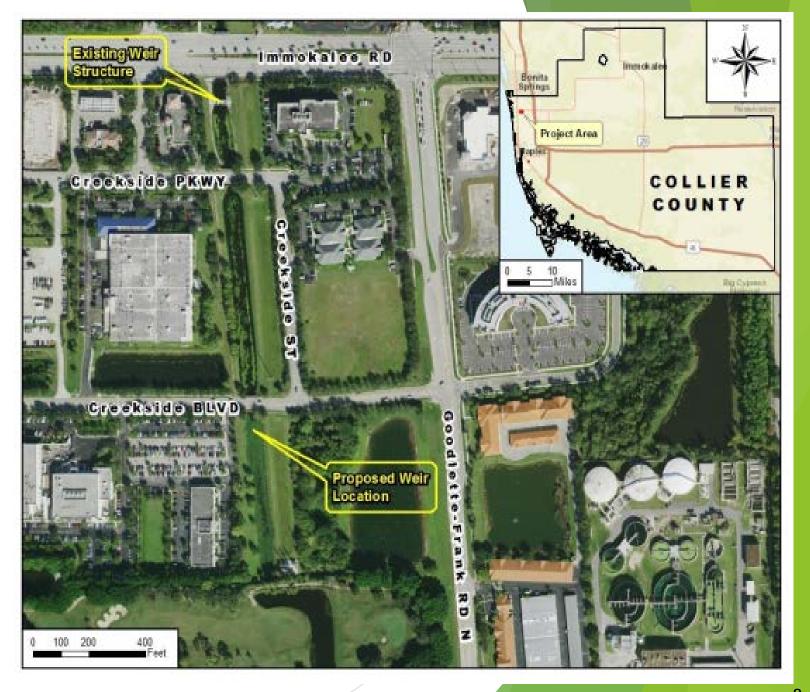




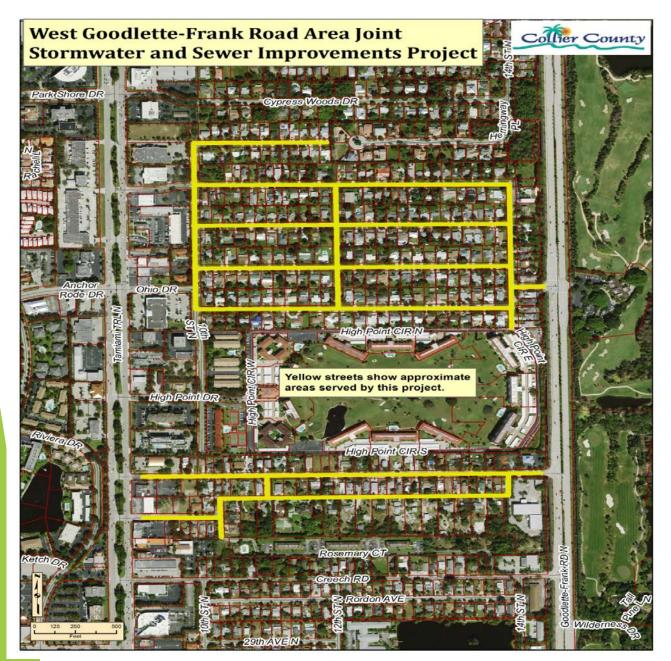
Pine Ridge Weir

- Project:
 - Design Completed
 - Permitting Completed
- **Construction:**
 - ▶ Bid Award: December 2018
 - ► Commencement: Early FY19
 - ► Estimated total cost: \$900,000





West Goodlette-Frank Road Area Joint Stormwater-Sewer Project



- County/City Partnership
- Proposed Phasing:
 - Phase I is southern portion
 - Phase II is northern portion
- Project cost:
 - ▶ \$14.3 million
- Construction time frame:
 - **2019-2021**
- Project Status:
 - Design 100% Complete

I-75 Interconnect Project

- Design
 - ► FY19 Allocation: \$500,000
 - ► Joint project between Collier County and Big Cypress Basin /South Florida Water Management District
 - Provide greater operational flexibility to manage flows within the Immokalee Road / Cocohatchee Canal & I-75 Canal





Weir Automation / Control Center

- ► Weir Automation / Control Center Project
 - Planning and design of powered weir gate operations and remote operation capability
 - Establish a shared local control center at the Collier County Emergency Operation Center (EOC)



Collier County Stormwater FY19 Plan



Collier County Stormwater FY19 Budget

Countywide Programs, Planning & Maintenance	
Stormwater Feasibility and Preliminary Design	\$300,000
NPDES MS4 Program	\$75,000
Stormwater Maintenance	\$100,000
Infrastructure & Capacity Projects	
Gateway Triangle Improvements *	\$20,000
Eagle Creek Weir Replacement *	
Haldeman Creek Weir Replacement *	
Pine Ridge Canal Weir 1 Replacement *	\$900,000
Vanderbilt Drive Swale Rehabilitation *	
Immokalee Stormwater Improvements*	\$15,000
Naples Park SW Improvement	\$3,200,000
W. Goodlette-Frank Area Stormwater Improvements	\$438,000
Lely Branch New Weir*	
Upper Gordon River	\$135,000
LASIP *	
RESTORE **	
Weir Automation / Regional Control Center	\$50,000
I-75 Coco Interconnect	\$500,000

^{*} Denotes FY18 funded projects anticipated to be active through FY19.

^{*} Denotes the initial portion of a multi-year, large scale, RESTORE project.

Questions?

