

Palm City Farms Stormwater Model

Category Non-concurrency
Project Number 1249B
Location Palm City Farms
District 5

Project Limits Palm City Farms

Related Projects
Lead Dept/Division PWD/Stormwater
Year Project Initiated 2019



DESCRIPTION

Multi-year project to develop a stormwater model for the Palm City Farms area with the goal of prioritizing and constructing future projects. Year 1 will include capture of Light Detection and Ranging (LIDAR), survey information, and pre-existing models in the basin. Year 2 will include development of a regional stormwater model in Interconnected Channel and Pond Routing Model (ICPR4) software. Year 3 will involve refining of the model and design of high priority improvement areas. Remaining years will involve constructing identified improvements prioritized by the modeling effort.

BACKGROUND

Palm City Farms is a rural area west of Palm City that is served by a series of agricultural ditches that drain into natural creeks. The nature of this area has changed from agriculture uses to predominantly single family residential use over the past 25 years. The existing agricultural ditches exist largely on private property, and the County does not have ownership or easements over many of the drainage features. Maintenance of the private drainage features is widely variable and can impact flow especially during peak rain events. Modelling will provide a framework to identify areas that require remedial measures and prioritize the improvements as funding becomes available. This sheet was funded through the FY18 fund balance process, and work will continue through FY31.

PROJECT ORIGINATION

Infrastructure Needs

JUSTIFICATION

Policy 14.1A.10 of the Comprehensive Growth Management Plan has requirements to "(1) identify projects that eliminate public hazards; and (2) repair, remodeling, renovation or replacement of obsolete or worn out facilities that contribute to achieving or maintaining standards for level of service." This project will reduce the risk of flooding.

Expenditures	Total	To Date		Funded					Unfunded
				FY22	FY23	FY24	FY25	FY26	FY27-FY31
Design	787,000	787,000							
Construction	16,125,000			125,000	250,000	250,000	250,000	250,000	15,000,000
Expenditure Total	16,912,000	787,000	-	125,000	250,000	250,000	250,000	250,000	15,000,000
Revenues	Total	To Date	Carryover	FY22	FY23	FY24	FY25	FY26	FY27-FY31
Franchise Fees	1,131,000	506,000		125,000	125,000	125,000	125,000	125,000	
Stormwater MSTU	781,000	281,000			125,000	125,000	125,000	125,000	
Revenue Total	1,912,000	787,000	-	125,000	250,000	250,000	250,000	250,000	-
								Total Unfunded	15,000,000

OPERATING BUDGET IMPACT

Maintenance frequency of County maintained assets will not be affected and will have no impact to operating budget. The study may identify key sections of privately maintained assets that should be improved, which would increase operating costs.