

# SW Murphy Road Bridge Replacement (Over C-23 Canal)

Category Non-concurrency  
CIP Rating Score 64  
Project Number 105303  
Location Palm City  
District 5

Project Limits Demolition, removal and reconstruction.

Related Projects Murphy Road Resurfacing  
Lead Dept/Division Public Works/Capital Projects  
Year Project Initiated 2013



## DESCRIPTION

The Murphy Rd. Bridge replacement includes removal and reconstruction of a 230' long two lane bridge over the C-23 Canal. The bridge will be demolished and reconstructed in phases so that one lane of traffic will remain open at all times during the construction. Project elements include replacement of bridge pilings, substructure construction, construction of a new precast deck slab bridge, relocation of an existing waterline, MOT, drainage improvements, and other incidental work.

## BACKGROUND

The Murphy Rd. Bridge over C-23 has a sufficiency rating of 32.7, a health index of 85.47 is functionally obsolete and has a reduced load rating. Martin County has been approved for State of Florida Department of Transportation (FDOT) funding assistance through the Local Agency Program (LAP) for FY20 for 3,062,215. Grant funds do not cover design/survey/contingency. \*The grant identified is programmed into the FDOT work program.\*

## PROJECT ORIGINATION

Infrastructure Needs

## JUSTIFICATION

The funding will provide for improvements to public facilities that eliminate public hazards, aid in the renovation of worn-out facilities that contribute to achieving or maintaining standards for levels of service adopted in the Comprehensive Growth Management Plan, and significantly reduce the operating cost of providing a service or facility or otherwise mitigate impacts of public facilities on future operating budgets.

				Funded					Unfunded
Expenditures	Total	To Date		FY21	FY22	FY23	FY24	FY25	FY26-FY30
Design	50,000	50,000							
Construction	3,637,215			3,637,215					
Expenditure Total	3,687,215	50,000	0	3,637,215	0	0	0	0	0
Revenues	Total	To Date	Carryover	FY21	FY22	FY23	FY24	FY25	FY26-FY30
Gas Tax	325,000	50,000	275,000						
Grant	3,062,215			3,062,215					
Road MSTU	300,000		300,000						
Revenue Total	3,687,215	50,000	575,000	3,062,215	0	0	0	0	0
Total Unfunded									0

## OPERATING BUDGET IMPACT

Maintenance costs during the first five years after bridge replacement will be minimal;  
New bridge structure installed will have a 100 year life cycle