ALTERNATIVES EVALUATION PRESENTATION







San Martin Boulevard over Riviera Bay Project Development & Environment (PD&E) Study

PROJECT IDENTIFICATION NUMBER

(PID): #001036A

June 21, 2016



PROJECT LOCATION





PROJECT LIMITS & SCOPE

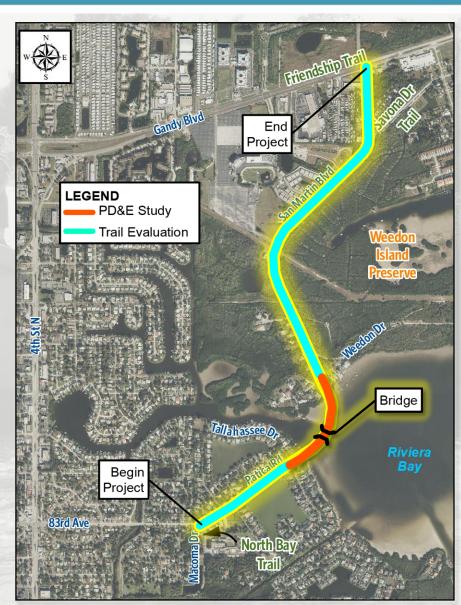


1. San Martin Blvd. over Riviera Bay Bridge Replacement PD&E Study

- Meet National Environmental Policy Act (NEPA) requirements
- Proposed Action:
 - Replace or rehabilitate the existing bridge to ensure safe traveling conditions for all road users
- Evaluate Alternatives
- Bridge Replacement on MPO's 2040 LRTP

2. North Bay Trail Extension Evaluation

- Evaluate Alignment Alternatives
- Evaluate Crossing Locations
- North Bay Trail extension on City's Trail
 Program & County Bike/Ped Master Plan



PUBLIC INVOLVEMENT



Informational Meetings

- 4/20/15 MPO Pedestrian and Bicycle Committee
- 4/22/15 MPO Technical Advisory Committee
- 4/23/15 MPO Citizens Advisory Committee
- 5/5/15 Board of County Commissioners
- 5/13/15 MPO Board Meeting
- 5/21/15 City of St. Petersburg City Council
- 7/14/15 Public Kickoff Meeting
- July 2016 Alternatives Public Workshop

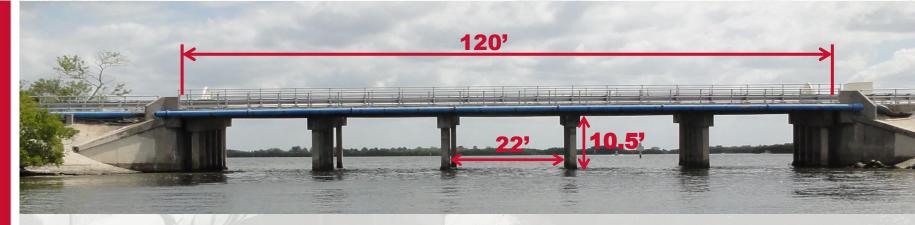






EXISTING BRIDGE CONDITION

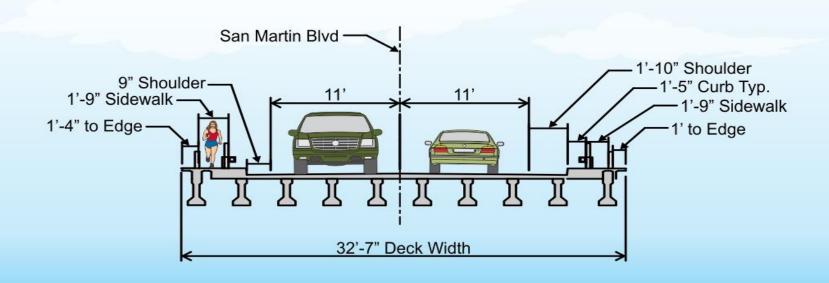




- Bridge Built in 1962
- Existing Bridge Length = 120 ft.
- Vertical Clearance = ± 10.5 ft.
- Horizontal Clearance = 22 ft.
- 2015 FDOT Bridge Inspection Report
 - Sufficiency Rating = 65.2
 - Rating < 80 May Warrant Rehabilitation or Replacement
- Scour Critical

EXISTING TYPICAL SECTION

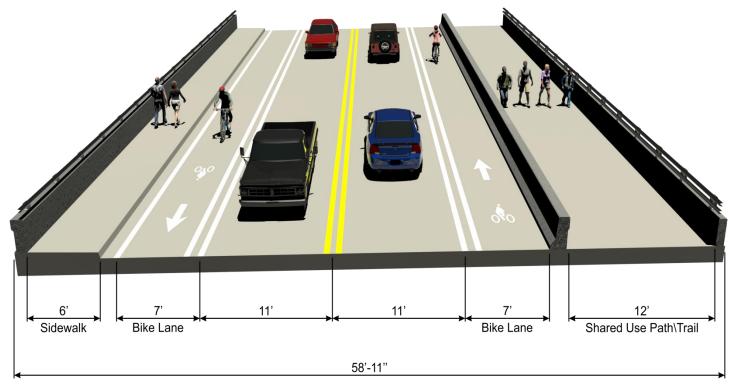




- Two Lane Five Span (24 ft. spans) Flat Slab Bridge
- Functionally Obsolete
 - Narrow Shoulders
 - No ADA compliant walkways
- No bicycle lanes

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CONCEPTUAL BRIDGE TYPICAL SECTION



- 40 mph Design Speed / 35 mph Posted Speed
- Two Lane Bridge No increase in capacity
- Provision for bike lanes and shared use path
 - 7' lanes are considered due to being in urban area and bike volumes
 - 12' shared use path considered based on analysis and adjacent trails

OVERVIEW OF ALTERNATIVES



No Build Alternative

- Being considered for NEPA
- Delays improvements to later date
- Requires ongoing maintenance

Proposed Build Replacement Alternatives

- Left (West) Shifted Alignment
- Centered Alignment
- Right (East) Shifted Alignment
- Highest Feasible Profile Reconstruction Alternatives (Fixed –Span)
 - Increases clearance over channel
 - Eliminates impacts to adjacent neighborhoods

BUILD REPLACEMENT ALTERNATIVE REVIEW EXISTING BRIDGE ALIGNMENT





BUILD REPLACEMENT ALTERNATIVE REVIEW LEFT SHIFTED





BUILD REPLACEMENT ALTERNATIVE REVIEW CENTERED





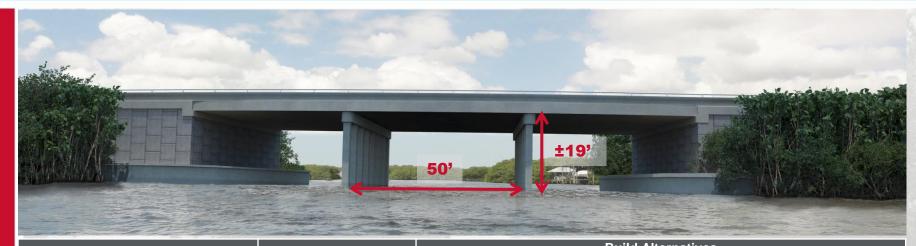
BUILD REPLACEMENT ALTERNATIVE REVIEW RIGHT SHIFTED





ALTERNATIVES COMPARISON MATRIX





		Build Alternatives										
Evaluation Criteria	No Build Alt.	Left-Shifted	Centered	Right-Shifted								
Bridge Design												
Bridge Vertical Clearance	10.5'	19.3'	19.6'	19.4'								
Bridge Span Length over Channel	24'	50'	50'	50'								
Bridge Deficiencies Addressed	No	Yes	Yes	Yes								
Above Critical Wave Height?	No	Yes	Yes	Yes								
Social and Environmental Impacts												
Private Property/Land Acquisition	None	0.59 acres	0.59 acres	0.59 acres								
Relocations	None	None	None	None								
Archaeological/Historical Sites	None	None	None	None 0.018 / 0.559 acres								
Seagrass/Mangrove Impacts	0.000 / 0.000	0.000 / 1.343 acres	0.002/ 0.962 acres									
Utility Impacts	/ Impacts None		24" Force Main 12" Watermain	24" Force Main 12" Watermain								
Construction Impacts												
Construction Duration	N/A	24 months	20 months	24 months								
Offsite Detour?		No	Yes	No								
Costs												
Total Project Costs (Millions)	\$0	\$12.290	\$11.373	\$13.753								

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NORTH BAY TRAIL EXTENSION EVALUATION

Study Limits

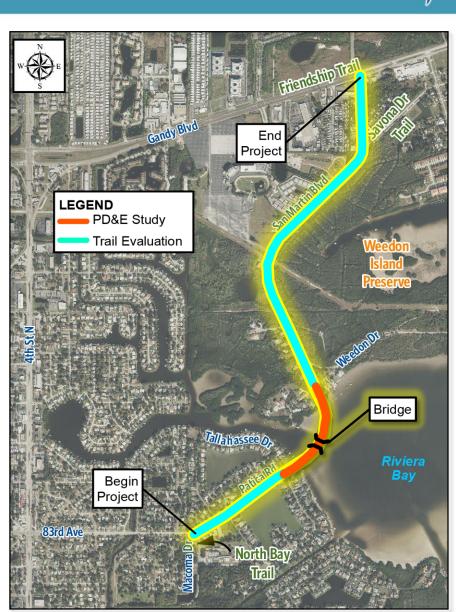
Macoma Drive to Gandy Blvd (1.9 mi)

Determine Best Trail Configuration

- Consider East side vs. West side
- Provide connectivity to adjacent trails and Weedon Island Preserve
- Minimize environmental impacts

Evaluate Safe Locations for Trail Crossings

- Friendship Trail
- Savona Drive Trail
- Duke Energy Trail
- Weedon Island
- North Bay Trail Existing Terminus



TRAIL EVALUATION MATRIX



ALVEST PRESENTATION OF STREET	Alternative Cos	Estimated	Surface	San Martin Blvd. Trail Crossing Locations					
		Costs (\$1,000s) ¹		Macoma Drive	Weedon Island	Duke Energy Trail	Savona Drive Trail	Friendship Trail	
	East	\$844.4	0.93	x	X		x	X	
	West	\$920.1	1.53			x		x	
	Hybrid	\$806.7	0.93			X	X	X	

¹ Total costs include the following: Mobilization (10%); Maintenance of Traffic (10%): Project Unknowns (20%): Preliminary Engineering and Design (7%) & Construction Engineering & Inspection (7%).

SCHEDULE



Project Schedule

- Public Alternatives Workshop

Board to Select Recommended Alternative

- Public Meeting (If Needed)

Study Complete

July 18, 2016

Fall 2016

Spring 2017

Summer 2017



QUESTION & ANSWER







CONTACT INFORMATION

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