

SAN MARTIN BLVD OVER RIVIERA BAY PD&E STUDY

ALTERNATIVES COMPARISON



Bridge Alternatives Comparison Matrix

EVALUATION CRITERIA	NO BUILD ALTERNATIVE	BUILD ALTERNATIVES		
		Left-shifted (West) Alternative	Centered Alternative	Right-shifted (East) Alternative
Bridge Design				
• Overall Bridge Width	32'-7"	58'-11"	58'-11"	58'-11"
• Width of Travel Lanes	11'	11'	11'	11'
• Width of Bike Lanes	None	7'	7'	7'
• Width of Sidewalks	<2'	6'	6'	6'
• Share Use Path (North Bay Trail)	None	12'	12'	12'
• Above Critical Wave Height	No	Yes	Yes	Yes
• Vertical Clearance over Channel	10.5'	19.3'	19.6'	19.4'
• Horizontal Clearance at Channel	24'	50'	50'	50'
• Bridge Deficiencies Addressed	No	Yes	Yes	Yes
Social and Environmental Impacts				
• Private Property/Land Acquisition (Stormwater ponds)	None	0.59 acres	0.59 acres	0.59 acres
• Residential Relocations	None	None	None	None
• Archaeological/Historical Sites	None	None	None	None
• Seagrass Impacts	0.000	0.000 acres	0.002 acres	0.018 acres
• Wetland Impacts	0.000	1.343 acres	0.962 acres	0.559 acres
• Wildlife Impacts	None	Minimal	Minimal	Minimal
• Aquatic Preserve/OFW Encroachment	0.000	0.228 acres	0.217 acres	1.389 acres
• Utility Impacts	None	24" Force Main/ 12" Watermain	24" Force Main/ 12" Watermain	24" Force Main/ 12" Watermain
Construction Impacts				
• Estimated Construction Duration	N/A	24 months	20 months	24 months
• Offsite Detour Required	None	No	Yes	No
Estimated Costs				
• Total Project Costs (Millions)	\$0	\$12.290	\$11.373	\$13.753

Trail Alternatives Comparison Matrix

TRAIL ALTERNATIVE	EST. COSTS (thousands)	WETLAND & SURFACE WATER IMPACTS	SAN MARTIN BLVD TRAIL CROSSING LOCATIONS				
			Macoma Drive	Weedon Island	Duke Energy Trail	Savona Drive Trail	Friendship Trail
• Left (West) Alignment	\$844.4	0.93 acres	X	X		X	X
• Right (East) Alignment	\$920.1	1.53 acres			X		X
• Hybrid Alignment	\$806.7	0.93 acres			X	X	X