

			No Build Alternatives				Build Alternatives						Value Engineering	
Criteria		Weighting Factor					Rehabilitation				Replacement		Alternative	
			Alt 1 - No Build	Score	Alt 2 - TSM&O	Score	Alt 3 - Rehabilitation without Beam Strenghtening	Score	Alt 4 - Rehabilitation with Beam Strenghtening and Alt M1 - Bascule Bridge Rehabilitation	Score	Alt 7 - Arched Beams with T1 - Venetian Railing and Alt M4 - Double Leaf Bascule Bridge	Score	VE Alternative	Score
Meets Purpose and Need			No		No				Yes		Yes			
Meets Current Safety Standards														
Service Life			0-3 years		0-8 years				25 years		75 years			
Typical Sectional Functionality			Substandard sidewalks and bicycle lanes		Substandard sidewalks and bicycle lanes				Substandard sidewalks and bicycle lanes		Meets current criteria			
Structural Capacity Hurricane Resistance Vessel Collision Resistance			H-15		H-15				HL-93		HL-93			
			Not Satisfied		Not Satisfied				Satisfied		Satisfied			
			Not Satisfied		Not Satisfied				Satisfied		Satisfied			
Bridge Clearances Maintenance of Traffic During Construction			Remain N/A		Remain N/A				Remain 82 months		Improved (Raised 1') Phased Construction			
Utility Services			IN/A		IN/A				OZ IIIOIIIIS		า กลอบน บบกอเกนบแบก			
Economic Impac														
	Constructability													
	Pedestrian and Bicycle Facilities		Remain as is		Remain as is				Pedestrian - Improved		Improved			
			Temain as is		TVerriairi as is				Bicycle - Remain as is		improved			
	Environmental Impacts													
NATURAL	Benthic Resources		No impact		No impact				Impact to corals from scour protection, substructure & beam strengthening		Impact to corals from scour protection, substructure replacement, spoil island shoreline			
	Essential Fish Habitat		No impact		No impact				Minimal impacts from construction means and methods		Minimal impacts from construction means and methods/minimal impact to shoreline of spoil islands			
	Threatened & Endnagered Species		No impact		No impact				Minimal impacts from construction means and methods		Minimal impacts from construction means and methods			
	Water Quality		Scuppers discharge to OFW		Scuppers discharge to OFW				Scuppers discharge to OFW		Temporary impacts during construction/overall benfit			
PHYSICAL	Noise Impacts		No impact		No impact				Minimal impacts from construction means and methods		Temporary impacts during construction			
	Air Quality		No impact		No impact				Minimal impacts from construction means and methods		Temporary impacts during construction			
	Contamination Impacts		Not Applicable		Not Applicable				Not Applicable		Not Applicable			
Cultural and Historic	Historic - Section 106/4(f)		No Adverse Effect		No Adverse Effect				No Adverse Effect - some impact to resource		Adverse Effect - Resource replaced, NHRP may be applicable for the causeway			
			-											
SOCIAL and ECONOMIC	Aesthetic/Visual Impacts		Utilities remain		Utilities remain				Utilities remain		Wider section, bridge aesthetics replicated, utilities hidden, arch and railings remain			
300	Recreational Areas		Not Applicable		Not Applicable				Not Applicable		Not Applicable			
<i>,</i>	Community Cohesion		No impact		No impact				Temporary impact to access		Temporary impact to access			
			<u> </u>						during construction		during construction			
Engineering Costs														
Construc	tion Costs													
Maintena	nce Costs													
Life Cycle Costs														
	Total Points													
Soore	Description													
Score Description O No Benefit or Not Applicable Quantitative ranking system to be developed for these criteria once all information is available														

0 No Benefit or Not Applicable Most impactive or least benefit Very impactive or little benefit Moderate impact or moderate benefit Little impact or very beneficial Least impactive or most benefit

Quantitative ranking system to be developed for these criteria once all information is available