



Broad Causeway Bridge Replacement PD&E Study

Causeway Island to East of West Broadview Drive

Alternatives Public Workshop

Financial Project ID: 452428-1-21-01
 Efficient Transportation Decision Making (ETDM) Number: 14520
 Town of Bay Harbor Islands Number: BC-160
 Bridge Number: 875101
 Miami-Dade County, FL



Criteria/Category		No Build Alternative	Alternative 1 High-Level Fixed Bridge	Alternative 2 Mid-Level Movable Bridge
ABILITY TO MEET PURPOSE AND NEED	Address Bridge Deficiencies			
	Improve Safety			
	Improve Flow of Traffic			
	Maintain Emergency Evacuation			
BRIDGE	Vertical Navigational Clearance Above Mean High Water	15.7 ft.	65 ft.	40 ft.
	Horizontal Clearance (between fenders)	79.7 ft.	90 ft.	90 ft.
	Slope of Road on Bridge (West side / East side)	3.44% / 1.55%	5.00% / 5.85% ¹	2.60% / 4.15%
	Improved Waiting Time for Marine Traffic	No	Yes	Yes
	Temporary Bridge Required During Construction	N/A	No	No
	Bridge Closure or Detour During Construction	N/A	No	No
	TRAFFIC OPERATIONS	Bridge Opening	Yes	No
Benefit to Vehicular Traffic		No	Yes	Yes
Evacuation / Emergency Response (Improved)		No	Yes	Yes
SOCIAL & CULTURAL RESOURCES	Potential Impacts to Archaeological Resources	N/A	Low	Low
	Potential Impacts to Historic Resources	N/A	High	High
	Potential Impacts to Parks/Recreation Areas (#) Town of Bay Harbor Islands Tot Lot Florida Circumnavigational Saltwater Paddling Trail²	0	1	1
		No	No	No
		No	Yes	Yes
	Aesthetic/Visual Changes	No	Yes	Yes
Pedestrian and Bicycle Facility Improvements	No	Yes	Yes	
NATURAL & PHYSICAL RESOURCES	Potential Impacts to Wetlands (acres)	0	0	0
	Potential Impacts to Essential Fish Habitat (acres)	0	3.07	3.52
	Threatened/Endangered Species Potential	N/A	Medium ³	Medium ³
	Potential Impacts to Sovereign Submerged Lands	No	No	Yes
	Potential Noise Sensitive Sites (#)	0	233	233
	Potential Contamination Sites (#High / #Medium)	0	1 / 1	1 / 1
RIGHT-OF-WAY	Relocations (#)	0	0	0
	Right-of-Way to be acquired (acres)	0	0	0
ESTIMATED PROJECT COSTS⁴ (2023 Dollars, in millions)	Lifespan of Alternative (Estimated Years) ★	25	75	75
	Design	N/A	\$15.9	\$32.7
	Mitigation	N/A	TBD	TBD
	Construction	N/A	\$204.5	\$339.4
	Bridge Tender	\$30.7	\$0	\$30.7
	Inspection & Maintenance	\$41.7	\$4.8	\$22.3
TOTAL		\$72.4	\$225.2	\$424.2

★ Toll bridge to be closed with “No Build Alternative”.

¹ The bridge sidewalks will comply with ADA requirements.

² Temporary impacts during construction only.

³ Medium assigned based on mitigation and minimization measures that will be implemented based on regulatory agency coordination.

⁴ Preliminary estimates are for planning purposes only. Costs shown are 2023 dollars through 2048 with 3% inflation.