

Feasible Alternatives Matrix

Alternative Element	Alternative A No Action	Alternative B New Structure Upstream from Existing Tide Gate Structure Location	Alternative C New Structure Next to Existing Tide Gate Structure Location
Construction Footprint Area	N/A	3.1 acres	2.6 acres
Native Planting Area	N/A	0.6 acres	0.4 acres
Number of Construction Season	N/A	5	4
Environmental Impact	* Potential loss of brackish marsh habitat. * 2-year flooding of 460 residences, 2 schools, 7 businesses, and temporary closure of Highway 101.	* Temporary impacts during the construction work windows for 5 seasons. * Current brackish marsh habitat will be maintained.	* Temporary impacts during the construction work windows for 4 seasons. * Current brackish marsh habitat will be maintained.
Impact to Trail Users	Trail is expected to be lost when tide gate structure fails.	The trail will be closed at the limits of the construction area for 53 months.	The trail will be closed at the limits of the construction area for 41 months.
Construction Uncertainties	N/A	Higher risk of construction complications due to unknown subsurface conditions, and staged construction of the tide gate structure.	Lower risk of construction complications.
Ease of Permitting	N/A	Permitting will be considerably difficult due to longer construction time and larger construction footprint area.	Permitting will be easier compared to Alternative B due to shorter construction time and reduced construction footprint area.
Mitigates Against SLR	No	Partial mitigation	Partial mitigation
Construction Cost	\$ -	\$ 31,147,200	\$ 26,429,200
Planning & Design Cost	\$ -	\$ 3,264,000	\$ 2,947,000
Permitting Cost	\$ -	\$ 1,186,800	\$ 1,059,400
Total 50-Year Lifetime Cost	N/A	\$ 35,598,000	\$ 30,435,600

* \$1.4M of estimated future long-term maintenance costs has been provided to Operations & Maintenance for their 5-year plan and is not included in the costs above.

THIS PAGE INTENTIONALLY LEFT BLANK