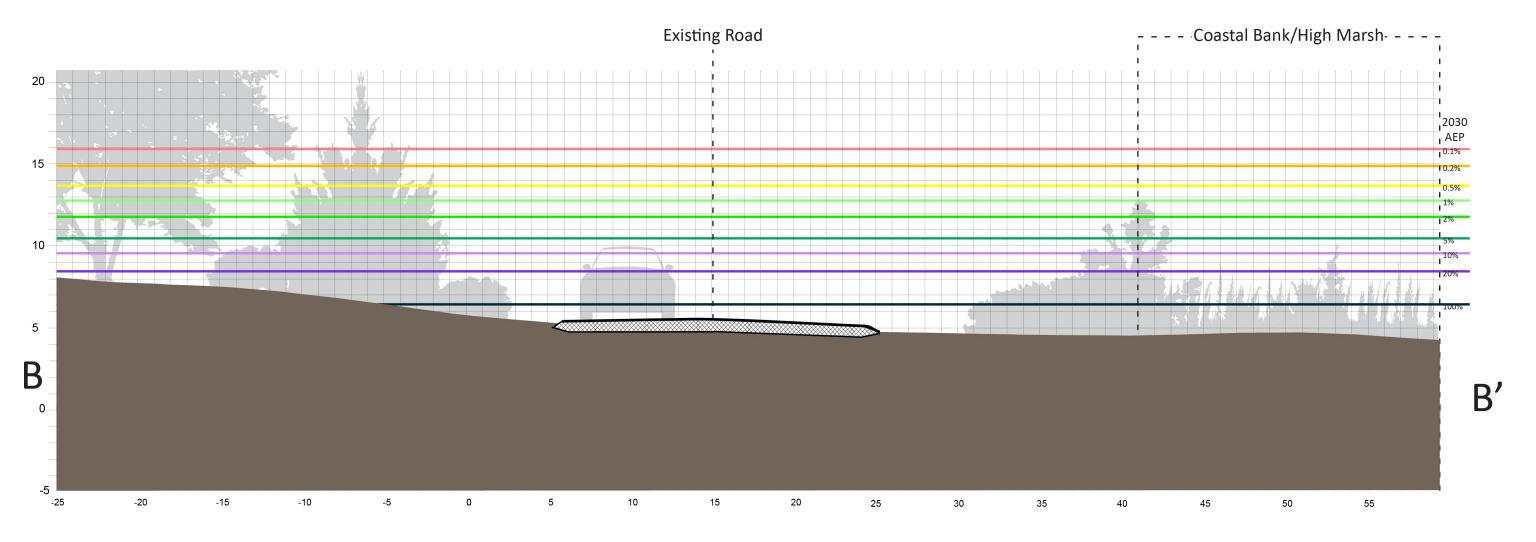


EXISTING CONDITIONS





EXISTING CONDITIONS

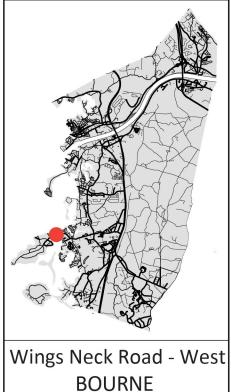




EXISTING CONDITIONS



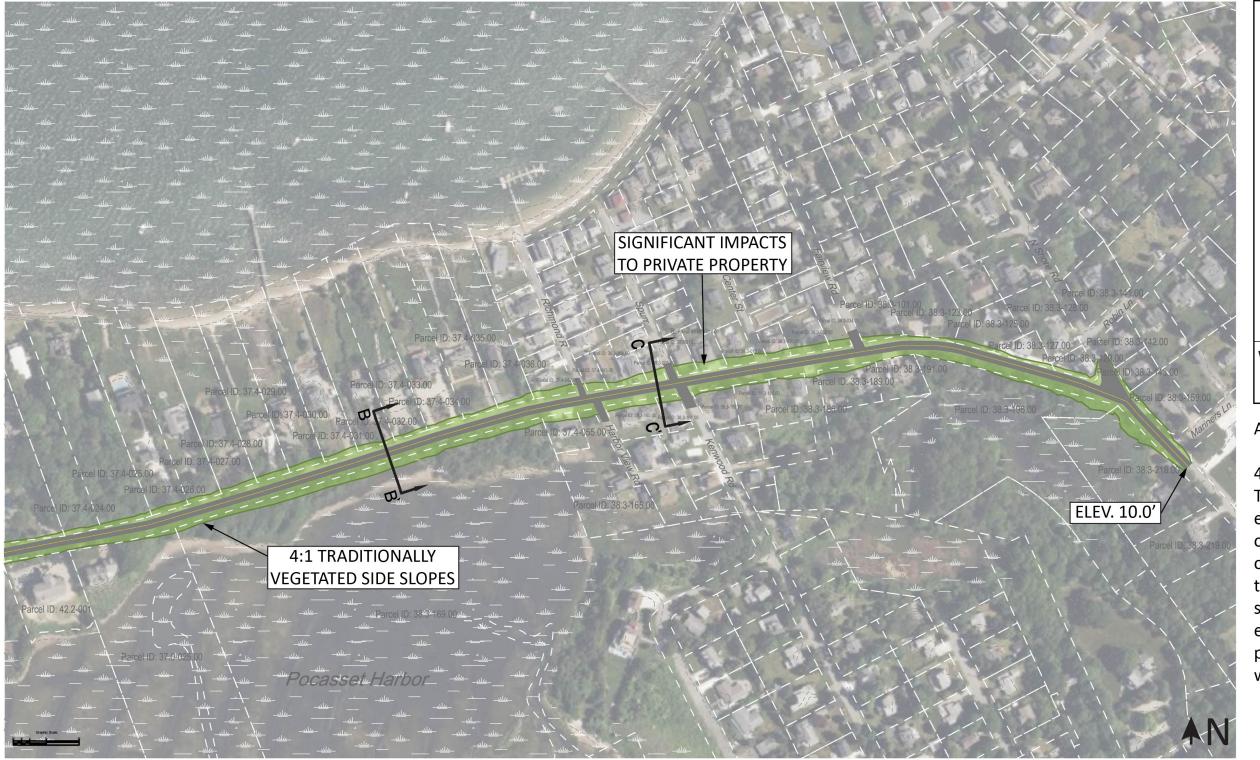


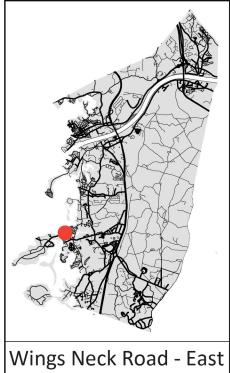


ALTERNATIVE 1: GRAY

4038 linear feet of Town-owned road are elevated from a lowest point of 3.9 feet to a lowest point of 10.0 feet with a 4:1 traditionally vegetated side slope. Sheet pile is used at the marsh crossing.







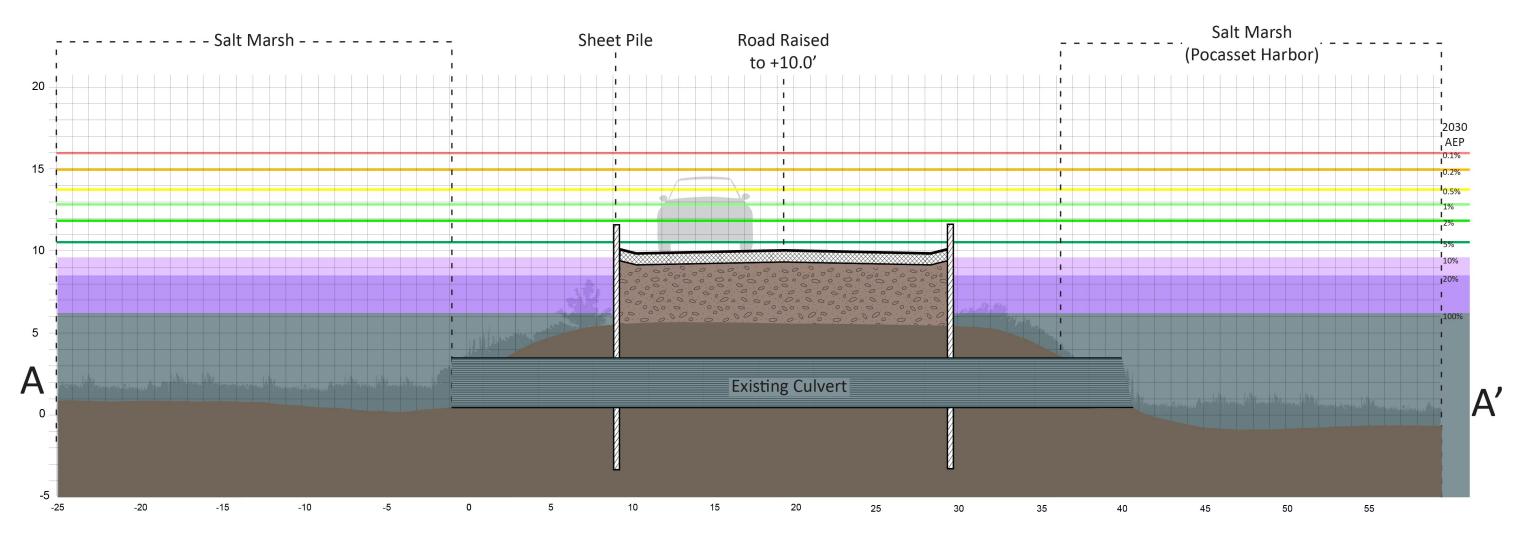
Wings Neck Road - Eas BOURNE

ALTERNATIVE 1: GRAY

4038 linear feet of
Town-owned road are
elevated from a lowest point
of 3.9 feet to a lowest point
of 10.0 feet with a 4:1
traditionally vegetated side
slope. The side slopes
encroach significantly on
private property and overlap
with existing structures.

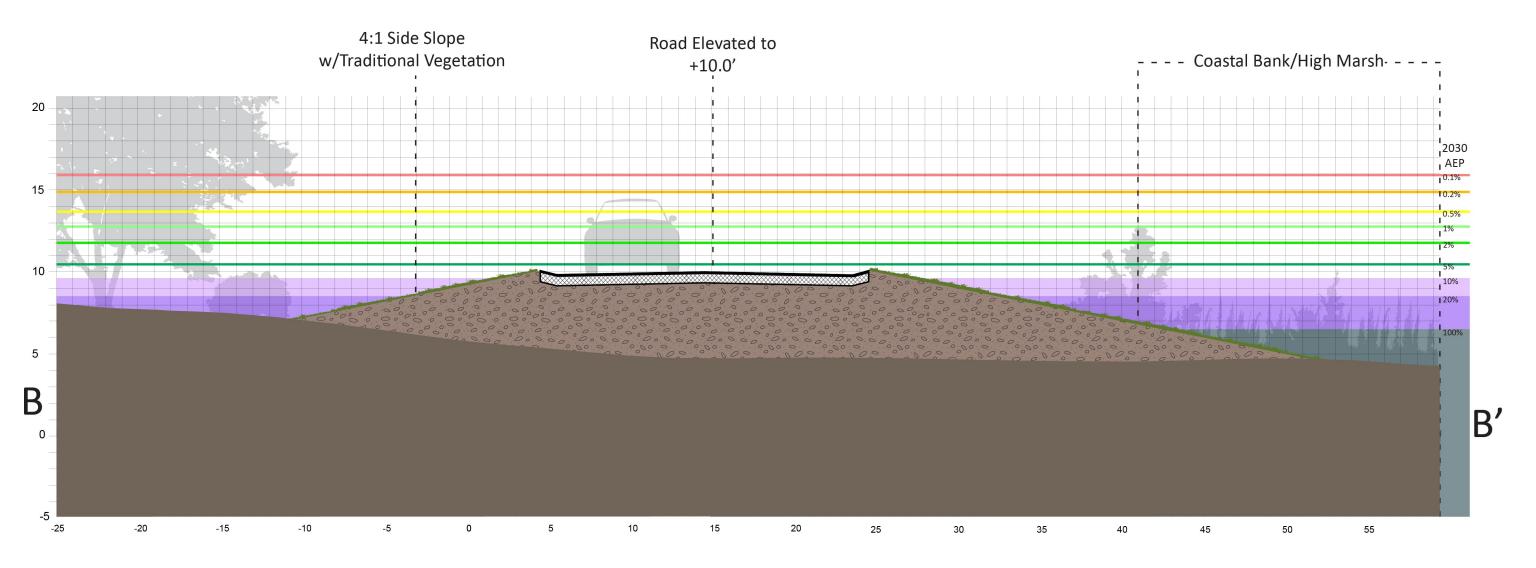


Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey



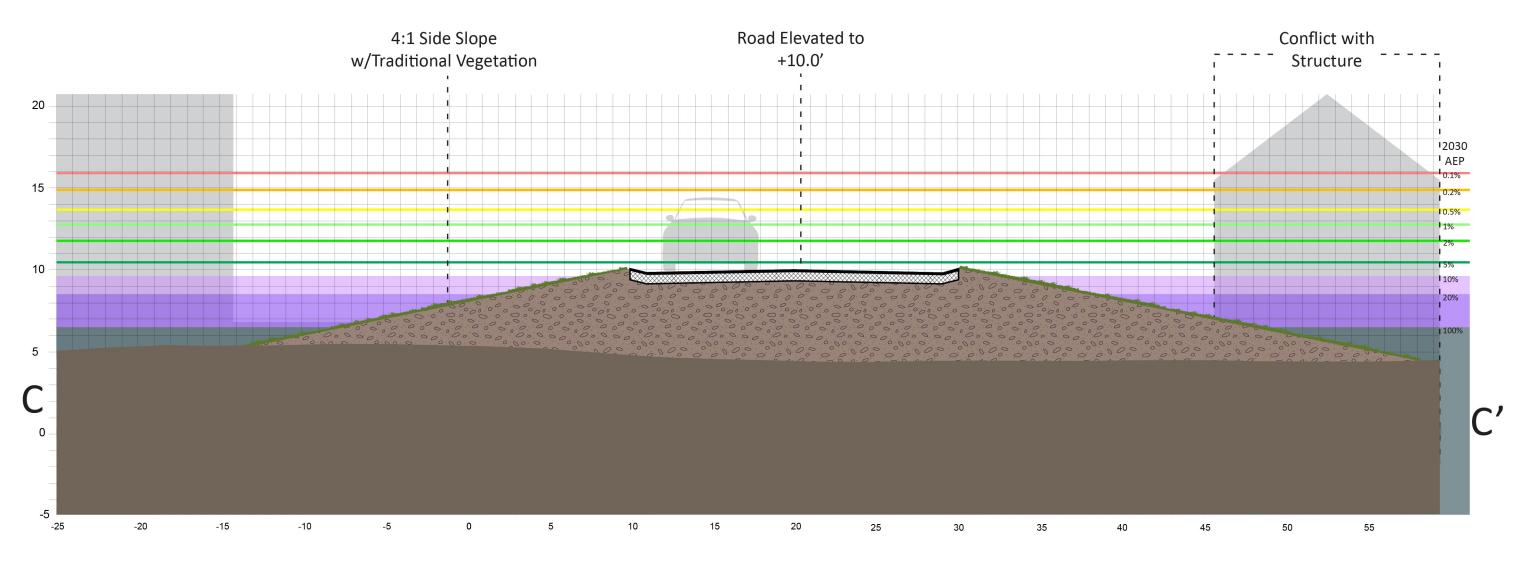
ALTERNATIVE 1: GRAY
Wings Neck Road, Bourne





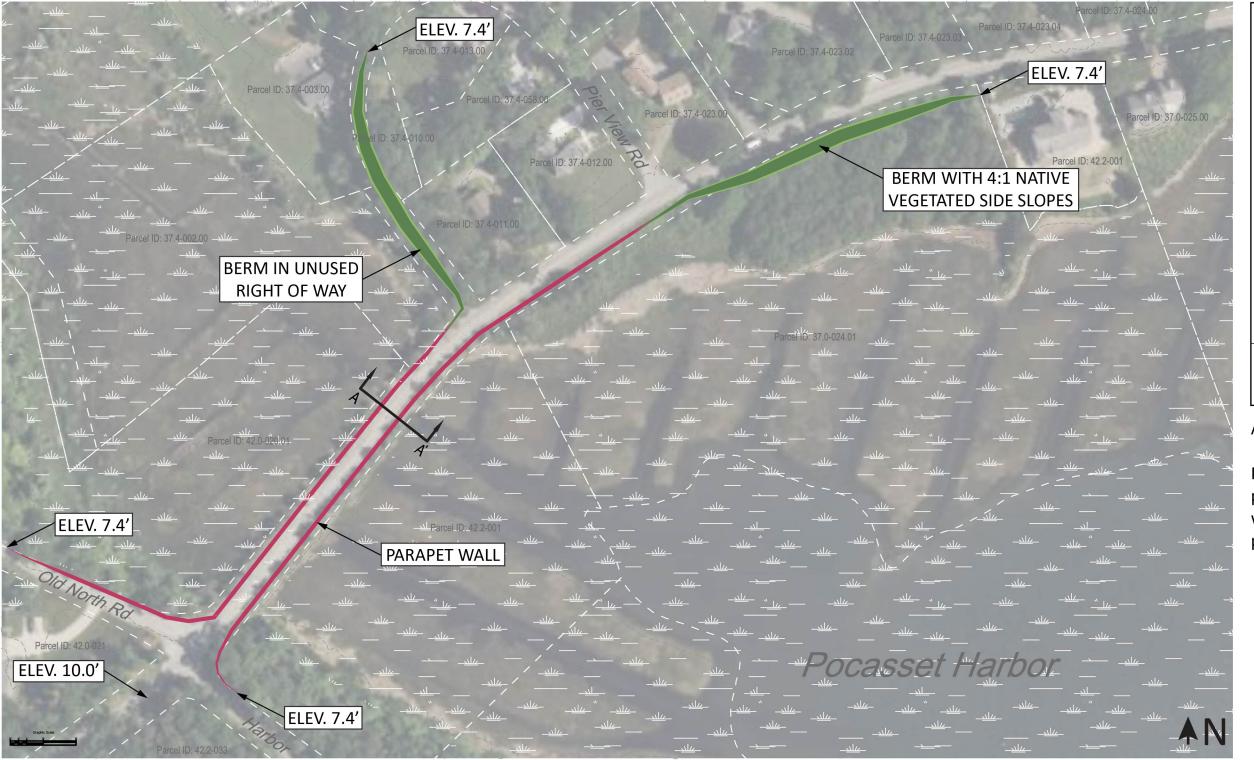
ALTERNATIVE 1: GRAY
Wings Neck Road, Bourne

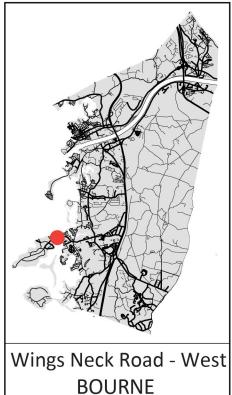




ALTERNATIVE 1: GRAY
Wings Neck Road, Bourne





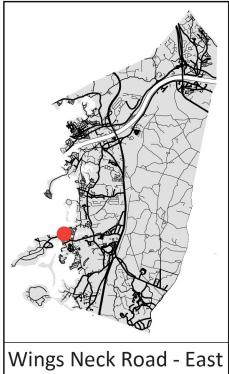


ALTERNATIVE 2: HYBRID

Parapet walls and berms protect the road to 7.4 feet without encroaching on private property.







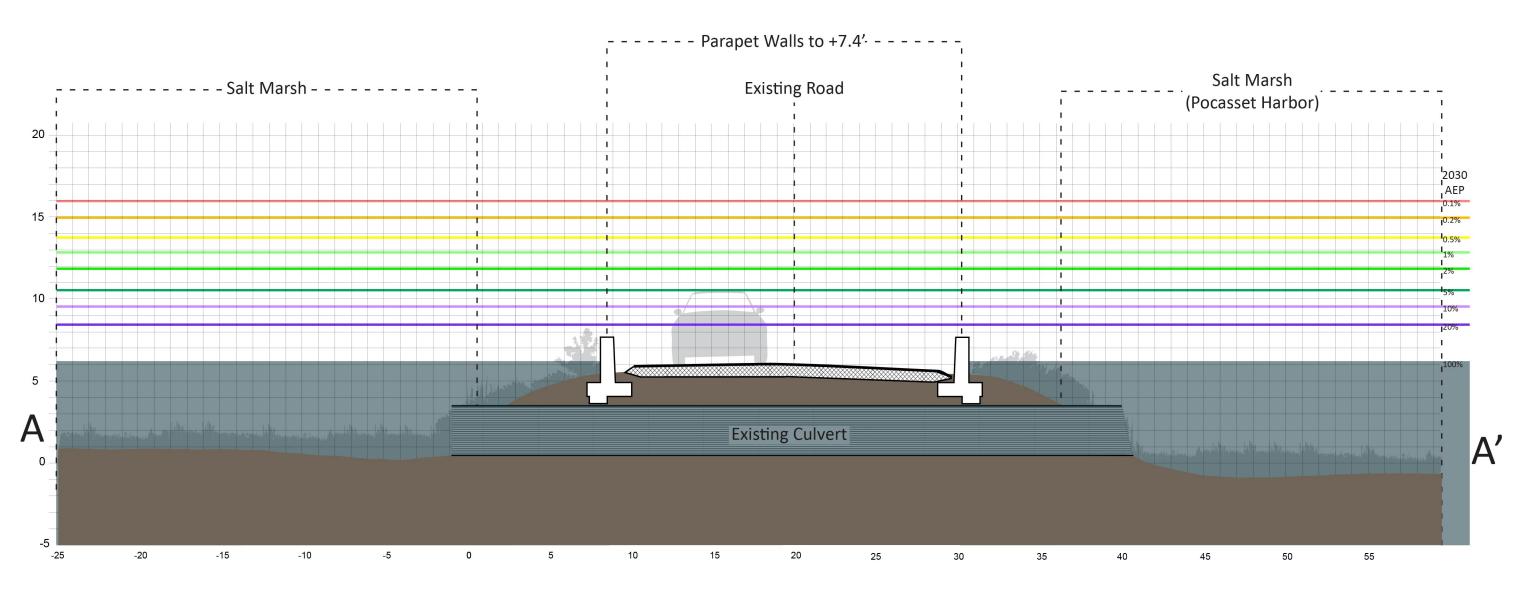
BOURNE

ALTERNATIVE 2: HYBRID

Parapet walls and berms protect the road to 7.4 feet. Negotiation with property owners and selective buyouts are required, along with a self-rising gate at the boat ramp at the end of Richmond Road.

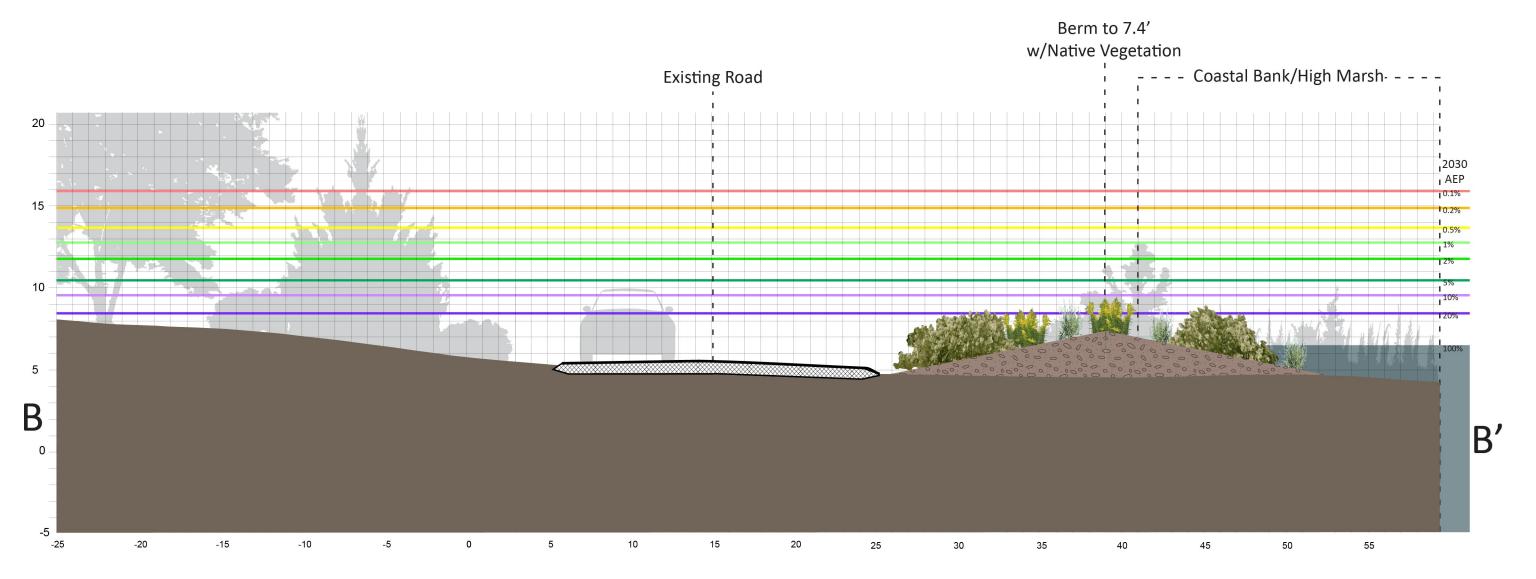


Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey



ALTERNATIVE 2: HYBRID





ALTERNATIVE 2: HYBRID



WINGS NECK ROAD, BOURNE

Summary of alternatives

	Segment	Description	Critical Elevation	Annual Ex	ceedance F 2050	Probability 2070	Vulnerable to Tidal Flooding	Impacts to Resource Area(s)	Impacts to Private Property	Estimated Cost*
EXISTING	EAST	A segment of 20ft wide road with a culvert crossing.	3.9 feet	100%	100%	100%	2050	N/A	N/A	N/A
	WEST		5.0 feet	100%	100%	100%	2070			
ALTERNATIVE 1: GRAY	EAST	4038 linear feet of Town-owned road are elevated from a lowest point of 3.9 feet to a lowest point of 10.0 feet	10.0 feet	5%	20%	20%	N/A	Minimal	Significant	\$18,800,000
	WEST	with a 4:1 traditionally vegetated side slope, except at the marsh crossing, where sheet pile is used.	10.0 feet	5%	20%	20%	N/A	Negative	Minor	
ALTERNATIVE 2: HYBRID	EAST	Parapet walls and berms protect the road to 7.4 feet. Negotiation with property owners and selective acquisitions are required, along with a deployable barrier at the dock at the end of Richmond Road.	7.4 feet	20%	20%	100%	N/A	Negative	Significant	\$1,600,000 (excluding easements and acquisitions)
	WEST		7.4 feet	20%	20%	100%	N/A	Minimal	None	

^{*2023} installed material cost +40% escalation (through 2029) and 15% contingency. Excludes design, permitting, mobilization, stormwater and wastewater infrastructure, and site controls. Costs based on experienced contractor opinion and MassDOT costing data.