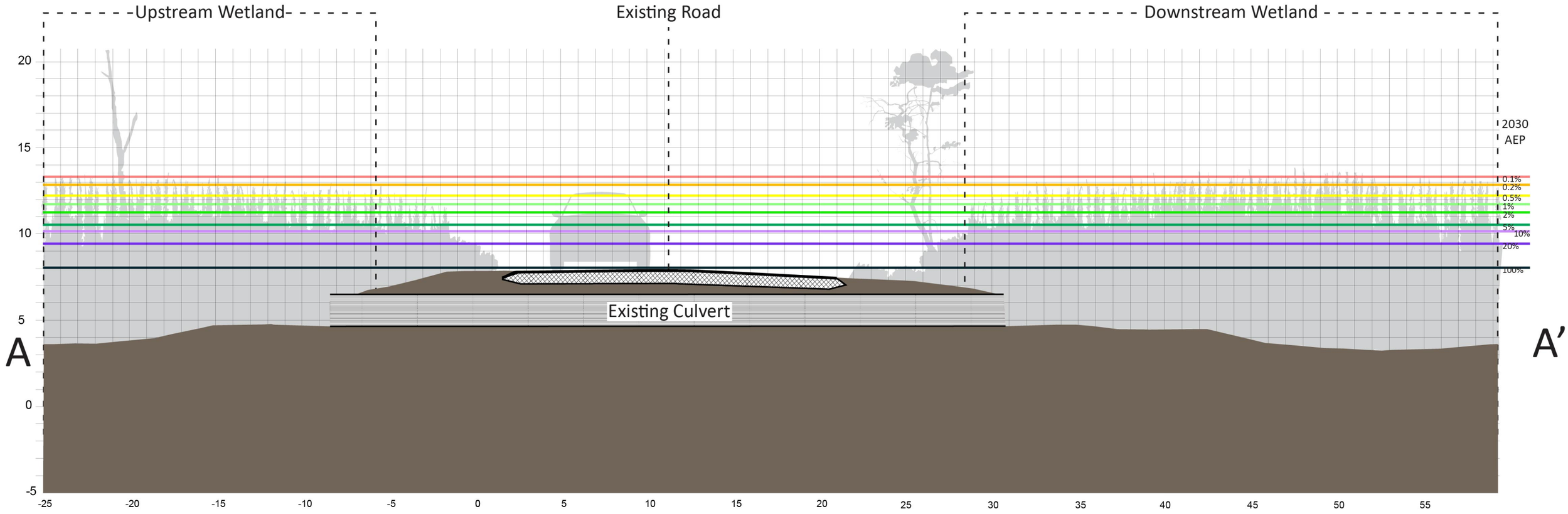

EXISTING CONDITIONS

Route 6A at School Street, Dennis

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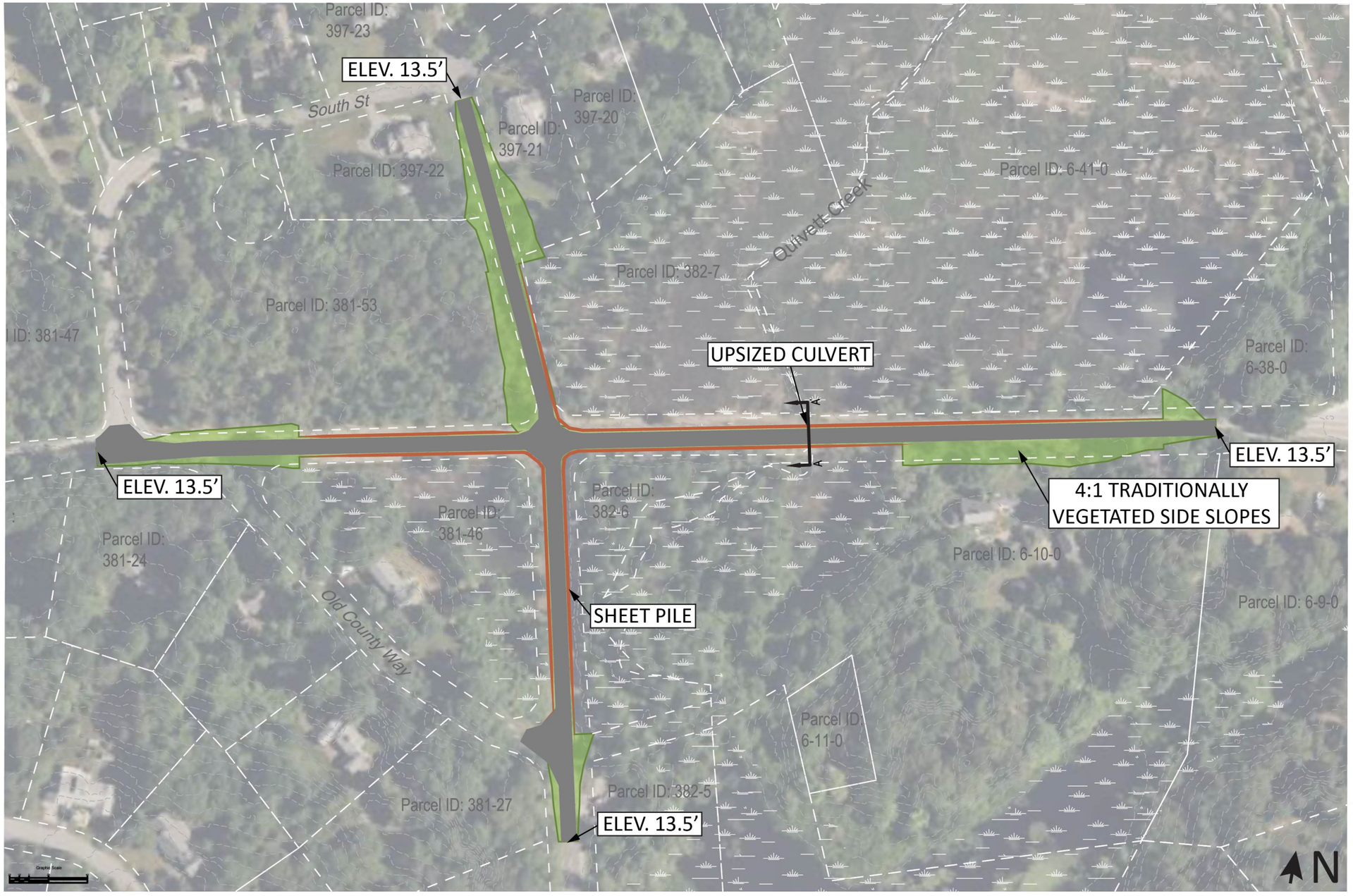
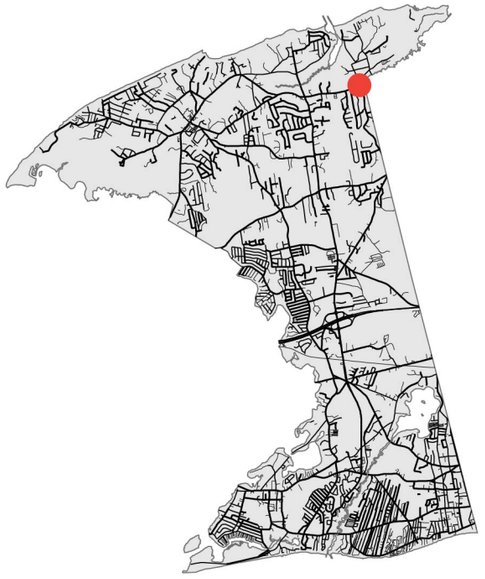


Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey



Route 6A at School Street DENNIS

ALTERNATIVE 1: GRAY

2410 linear feet of road are elevated to 13.5 feet using sheet pile and traditionally vegetated side slopes. The culvert under Route 6 is replaced with a larger culvert to facilitate future tidal flow. This alternative extends into Brewster, and collaboration with the neighboring town would be necessary.

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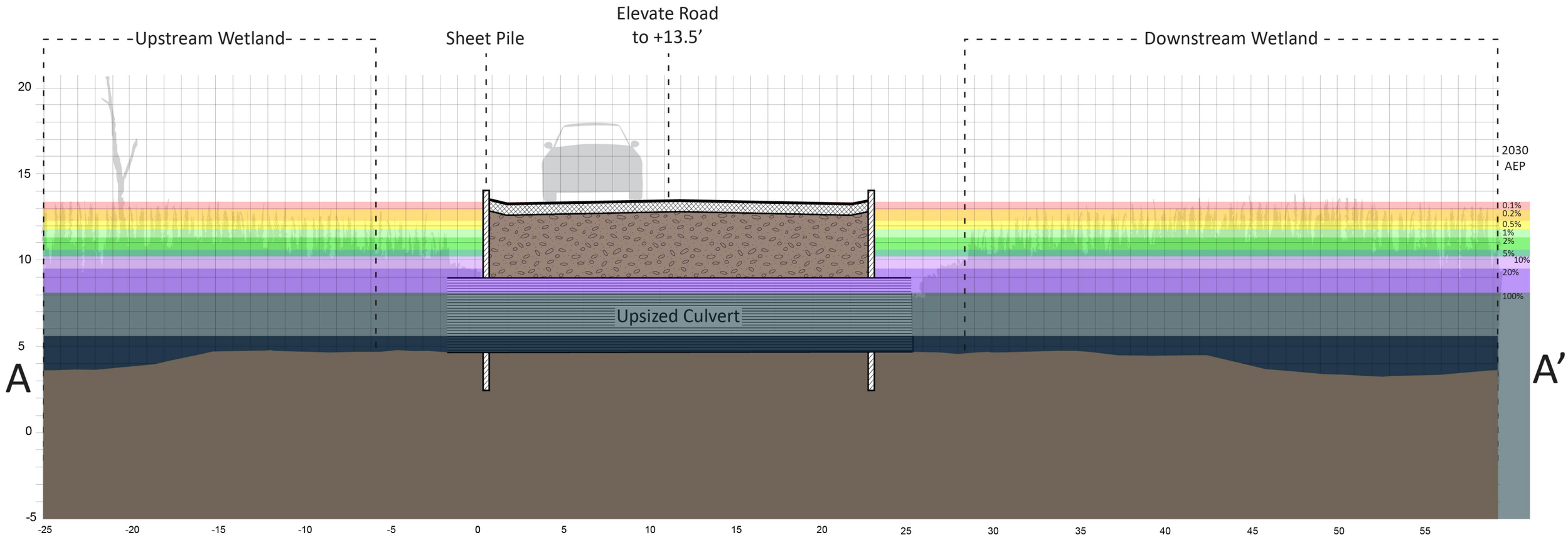
A CLS COMPANY



ALTERNATIVE 1: GRAY

Route 6A at School Street, Dennis

WOODS HOLE GROUP
A CLS COMPANY

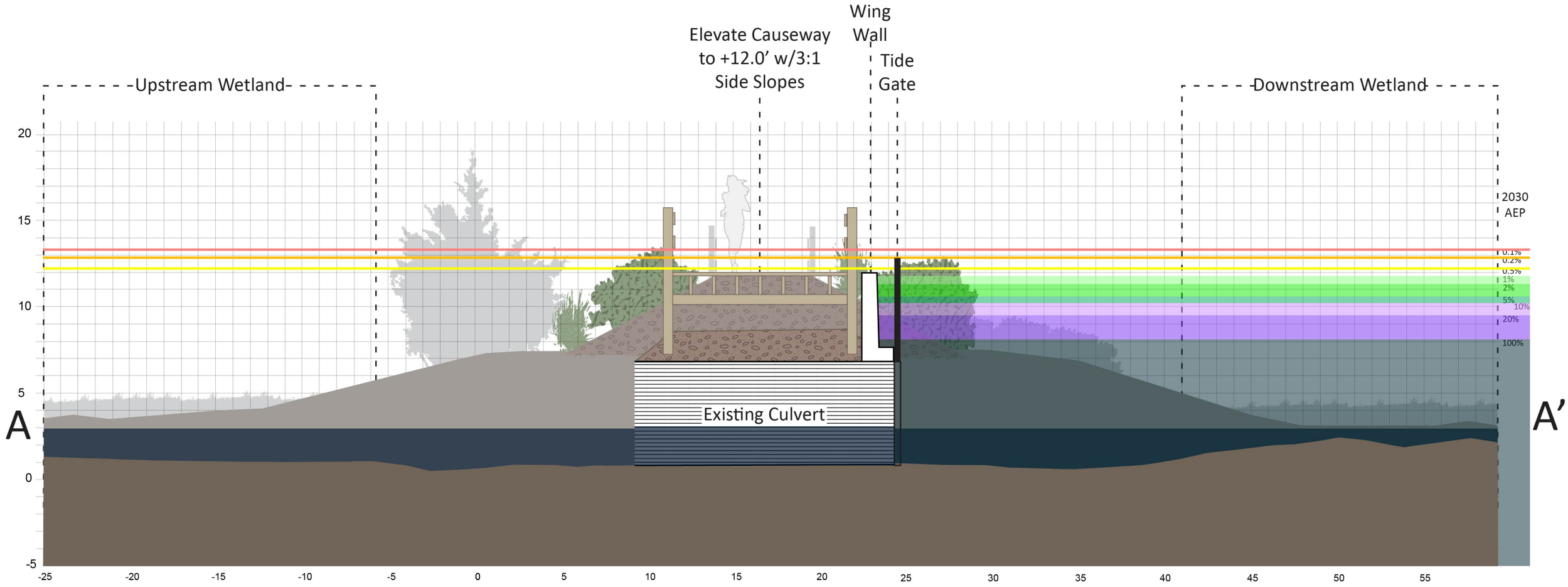
Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey

Route 6A at School Street
DENNIS

ALTERNATIVE 2: HYBRID

The Sea Street causeway over Quivett Creek is elevated to 12.0 feet with 3:1 native vegetated side slopes. A 6-foot wide shared use path with railings and new bridge over the culvert maintain safe pedestrian use. A concrete wing wall to 12.0 feet and tide gate are added to the existing culvert. A small berm to 12.0 feet is constructed along South Street to manage a flanking flood pathway.

WOODS HOLE GROUP
A CLS COMPANY



ALTERNATIVE 2: HYBRID

Route 6A at School Street, Dennis

WOODS HOLE GROUP
A CLS COMPANY

ROUTE 6A at SCHOOL STREET, DENNIS

Summary of alternatives

	Description	Critical Elevation	Annual Exceedance Probability			Vulnerable to Tidal Flooding	Impacts to Wetlands	Impacts to Private Property	Estimated Cost*
			2030	2050	2070				
EXISTING	A road intersection with a culvert crossing and adjacent wetland.	7.5 feet	100%	100%	100%	2070	N/A	N/A	N/A
ALTERNATIVE 1: GRAY	2410 linear feet of road are elevated to 13.5 feet using sheet pile and traditionally vegetated side slopes. The culvert under Route 6 is replaced with a larger culvert to facilitate future tidal flow. This alternative extends into Brewster, and collaboration would be necessary.	13.5 feet	0%	1%	5%	N/A	Minimal	Minimal	$1,112,000
ALTERNATIVE 2: HYBRID	The Sea Street causeway is elevated to 12.0 feet with 3:1 native vegetated side slopes. A 6-foot wide shared use path with railings and new bridge over the culvert maintain safe pedestrian use. A concrete wing wall to 12.0 feet and tide gate are added to the existing culvert. A small berm to 12.0 feet is constructed along South Street to manage a flanking flood pathway.	12.0 feet	0.5%	5%	20%	2070	Minimal	Minimal	$131,000

*Installed material cost +20% contingency. Excludes design, permitting, mobilization, stormwater and wastewater infrastructure, and site controls. Costs based on RSMeans 2021 cost book and adjusted for inflation and region.