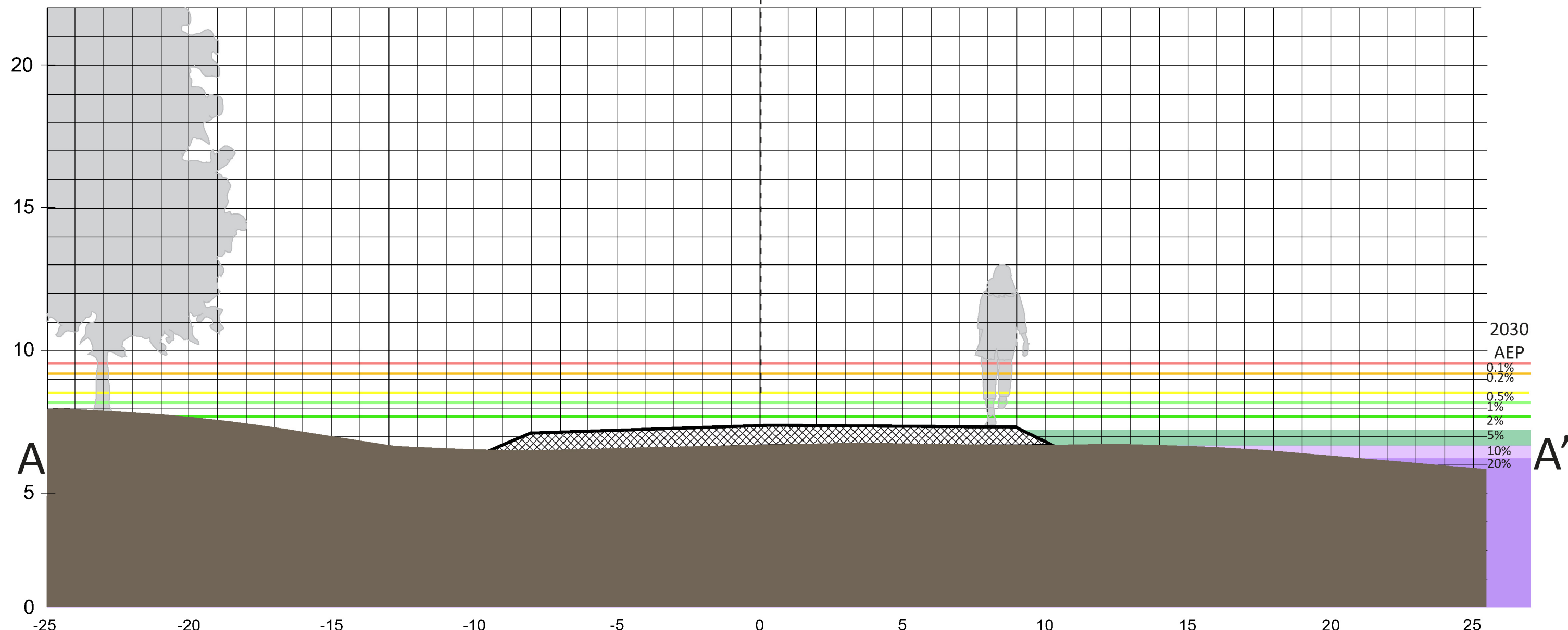
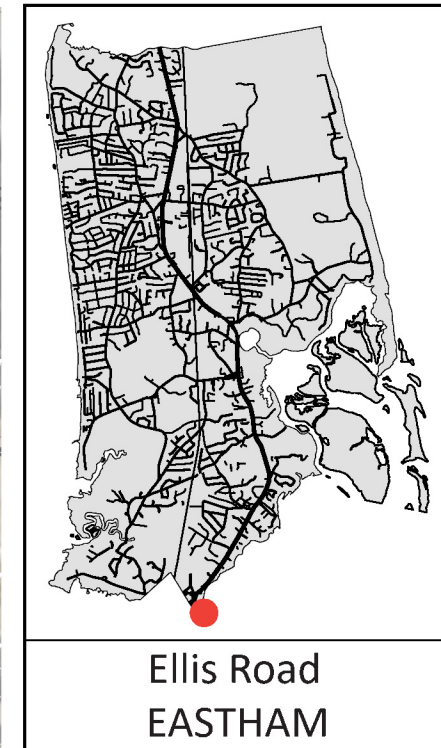
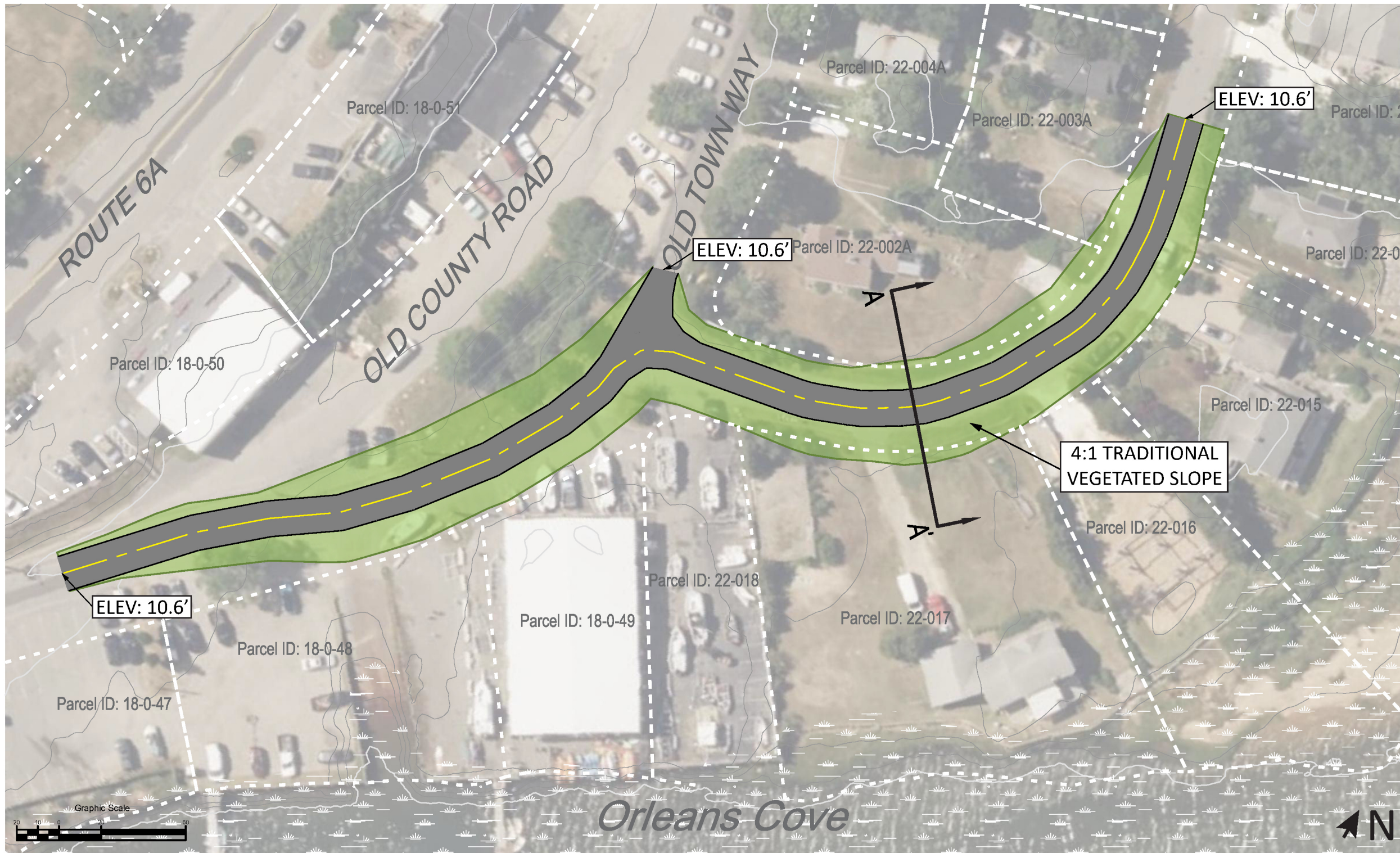


Existing Road



EXISTING CONDITIONS

Ellis Road, Eastham



ALTERNATIVE 1: GRAY

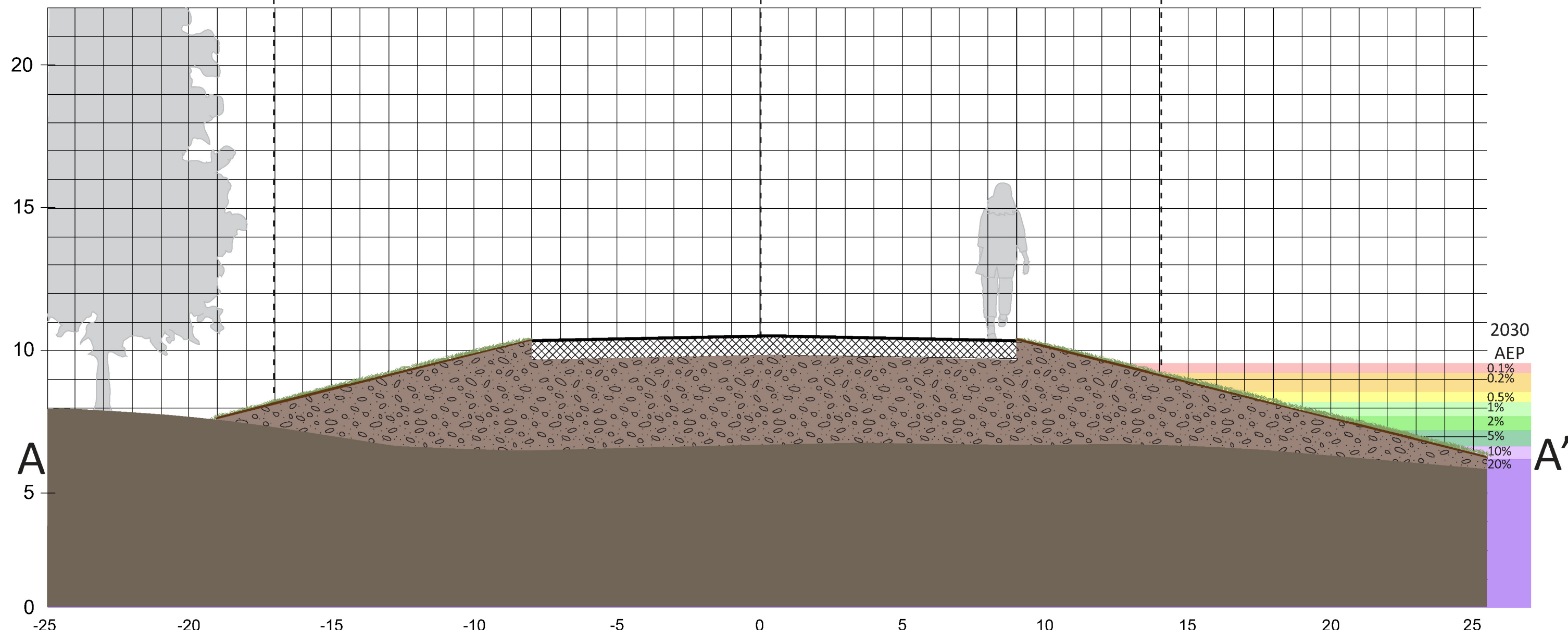
633 linear feet of Town-owned road are elevated from a lowest point of 6.8 feet to a lowest point of 10.6 feet. This road segment extends into Orleans, and collaboration with both the neighboring town and private property owners is necessary.

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

4:1 Vegetated
Side Slope

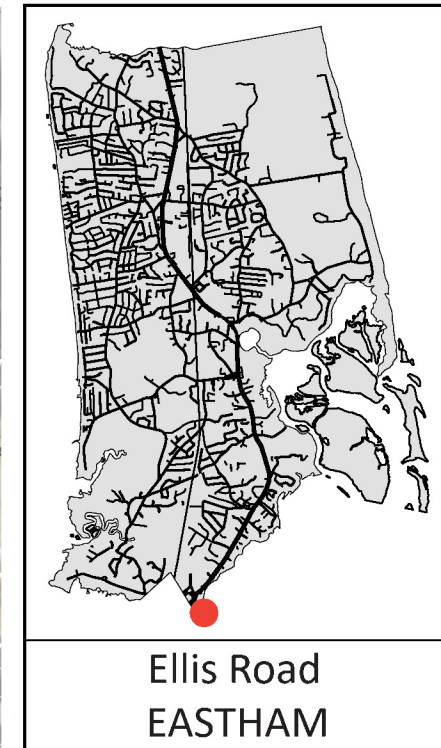
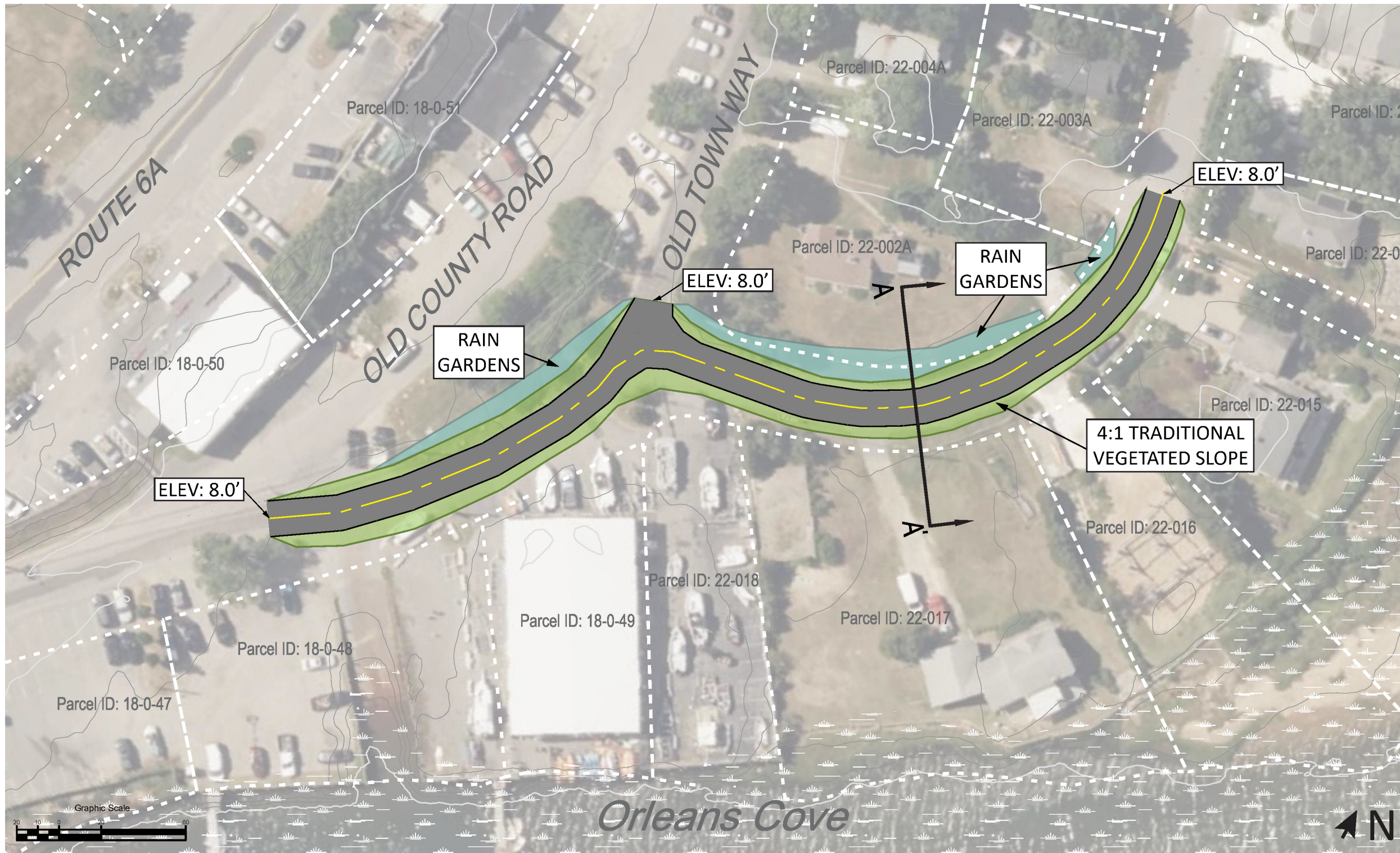
Road Elevated to
+10.6ft

4:1 Vegetated
Side Slope



ALTERNATIVE 1: GRAY

Ellis Road, Eastham



ALTERNATIVE 2: HYBRID

591 linear feet of Town-owned road are elevated from a lowest point of 6.8 feet to a lowest point of 8 feet. Rain gardens are added on the road's northern side to manage rainwater. This road segment extends into Orleans, and collaboration with both the neighboring town and private property owners is necessary.

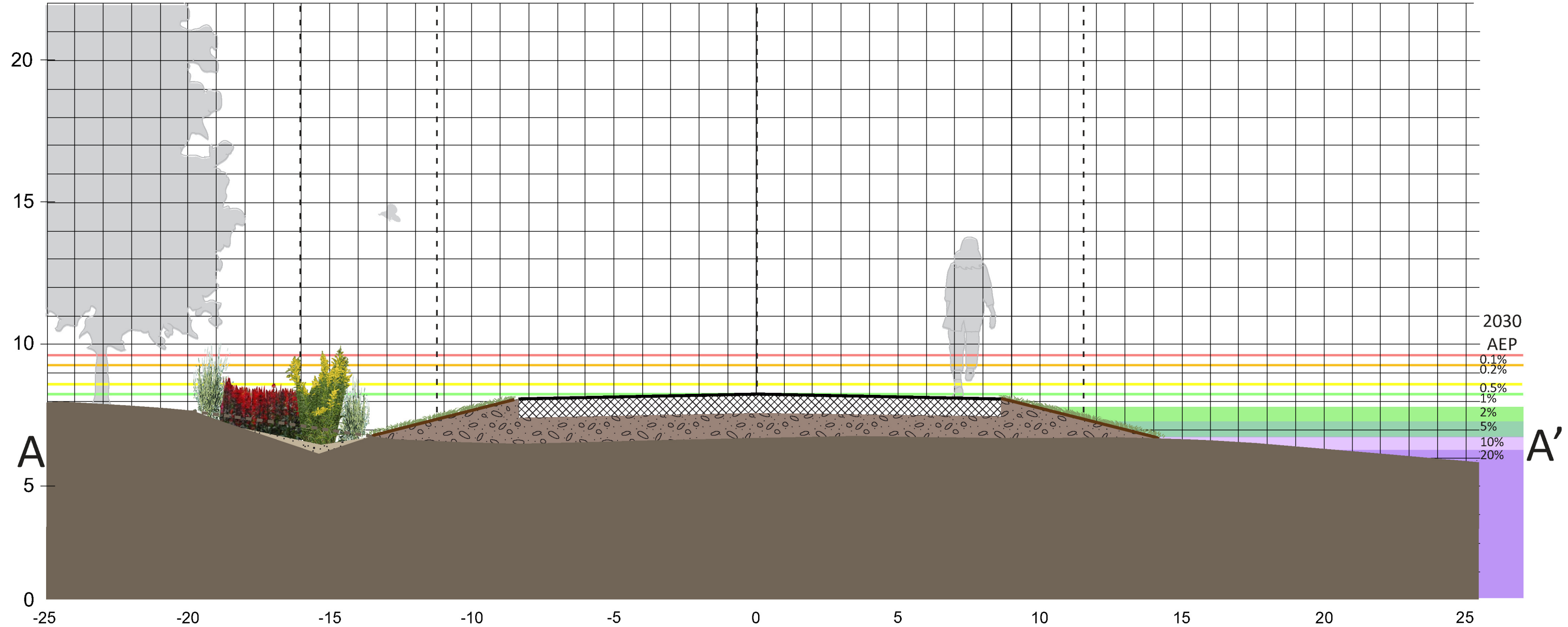
Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey

Vegetated
Rain Garden

4:1 Vegetated
Side Slope

Road Elevated to
+8.0ft

4:1 Vegetated
Side Slope



ALTERNATIVE 2: HYBRID
Ellis Road, Eastham

ELLIS ROAD, EASTHAM

Summary of alternatives

	Description	Critical Elevation	Annual Exceedance Probability			Vulnerable to Tidal Flooding	Impacts to Resource Area(s)	Impacts to Private Property	Estimated Cost*
			2030	2050	2070				
EXISTING	A segment of 20ft wide road.	6.8 feet	5%	100%	100%	2070	N/A	N/A	N/A
ALTERNATIVE 1: GRAY	633 linear feet of Town-owned road are elevated from a lowest point of 6.8 feet to a lowest point of 10.6 feet. This road segment extends into Orleans, and collaboration with both the neighboring town and private property owners is necessary.	10.6 feet	0%	1%	10%	N/A	N/A	Yes	\$312,000
ALTERNATIVE 2: HYBRID	591 linear feet of Town-owned road are elevated from a lowest point of 6.8 feet to a lowest point of 8 feet. Rain gardens are added on the road's northern side to manage rainwater. This road segment extends into Orleans, and collaboration with both the neighboring town and private property owners is necessary.	8.0 feet	1%	100%	100%	2070	N/A	Yes	\$170,000

*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.