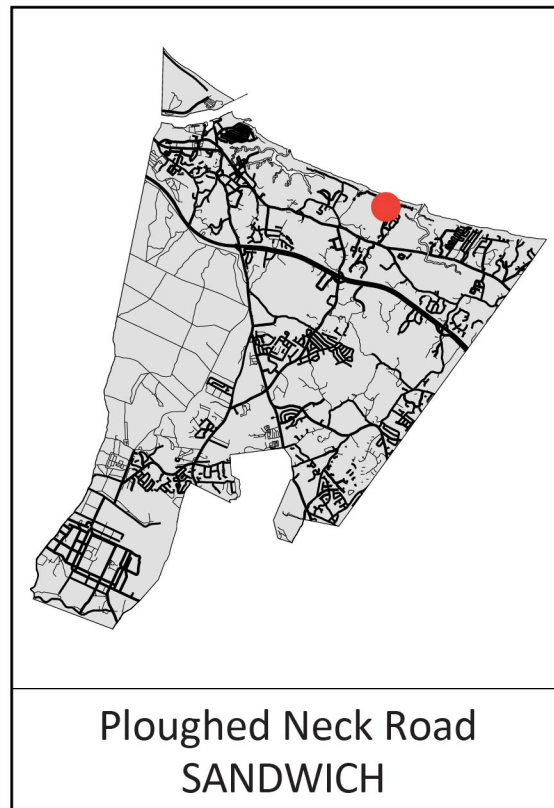


EXISTING CONDITIONS
 Ploughed Neck Road, Sandwich

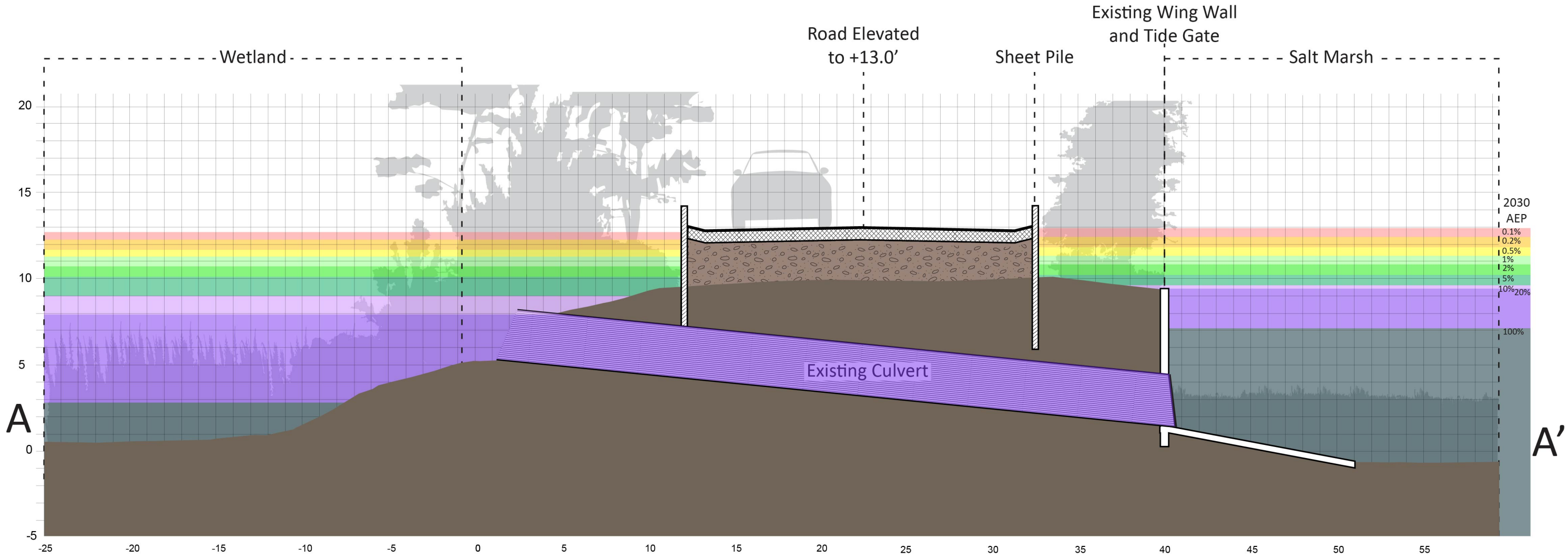


**Ploughed Neck Road
SANDWICH**

ALTERNATIVE 1: GRAY

1088 linear feet of Town-owned road are elevated from a lowest point of 9.6 feet to a lowest point of 13.0 feet. Sheet pile is used near the culvert crossing to minimize impacts to wetlands.

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



ALTERNATIVE 1: GRAY
 Ploughed Neck Road, Sandwich

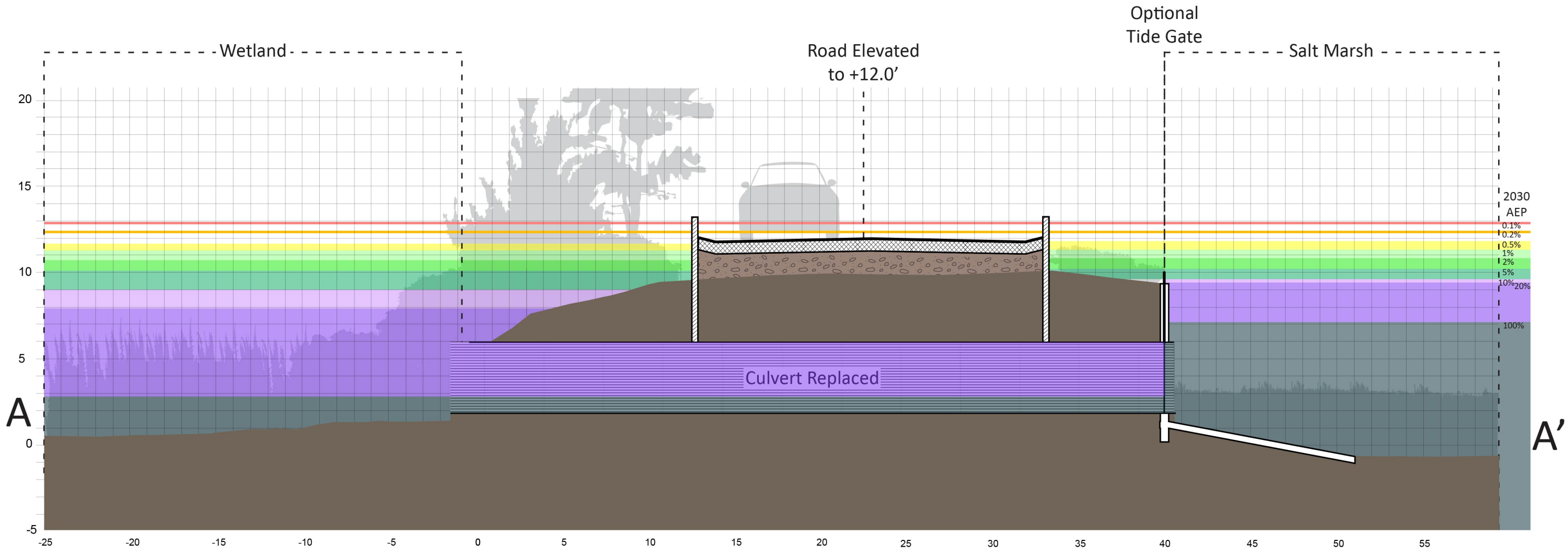


Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey



ALTERNATIVE 2: HYBRID

9488 linear feet of Town-owned road are elevated from a lowest point of 9.6 feet to a lowest point of 12.0 feet. Sheet pile is used near the culvert crossing to minimize impacts to wetlands. The culvert is replaced to allow for tidal flow, and there is the option to add a tide gate.



ALTERNATIVE 2: HYBRID
 Ploughed Neck Road, Sandwich

PLOUGHED NECK ROAD, SANDWICH

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 segment of 20ft wide road with a sidewalk and culvert crossing. | 9.6 feet | 10% | 20% | 100% | N/A | N/A | N/A | N/A |
| ALTERNATIVE 1: GRAY | 1088 linear feet of Town-owned road are elevated from a lowest point of 9.6 feet to a lowest point of 13.0 feet. Sheet pile is used near the culvert crossing to minimize impacts to wetlands. | 13.0 feet | 0% | 0.5% | 10% | N/A | Minimal | Yes | \$428,000 |
| ALTERNATIVE 2: HYBRID | 9488 linear feet of Town-owned road are elevated from a lowest point of 9.6 feet to a lowest point of 12.0 feet. Sheet pile is used near the culvert crossing to minimize impacts to wetlands. The culvert is replaced to allow for tidal flow, and a tide gate is added. | 12.0 feet | 0.2% | 5% | 20% | N/A | Potential Positive | Minimal | \$397,000 |

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