

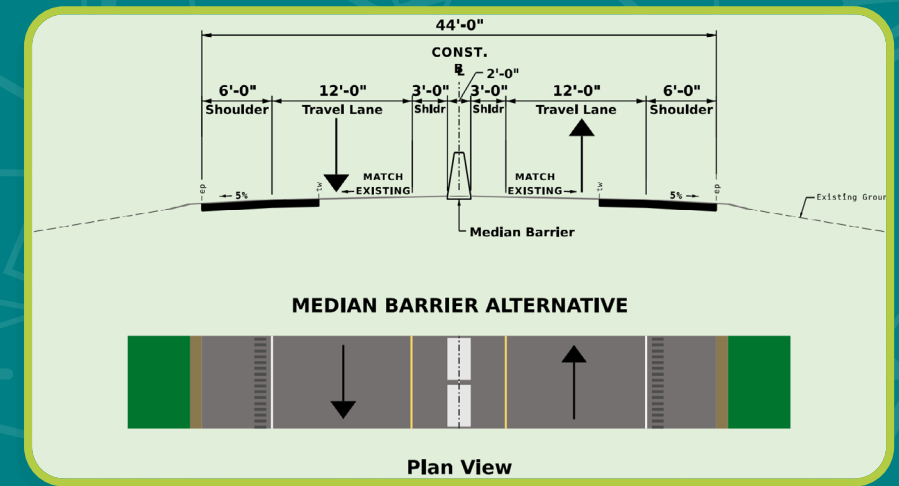
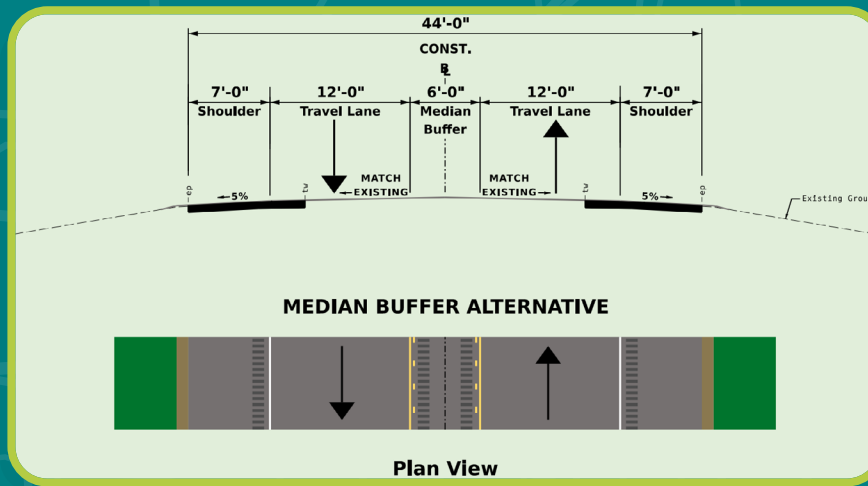
Milford Route 101 Safety Improvements

Wilton | Milford | Amherst | Bedford
13692D

Original Project Length:
1.2 Miles

First Expansion:
3.9 Miles

Final Design:
4.7 Miles



Alternatives Analysis

	Alternative 1: Low-Cost Countermeasures	Alternative 2: Median Barrier	Alternative 3: Median Buffer
Construction Cost	\$20,000	\$2,880,000	\$1,380,000
Wetland Impacts	No	Likely	No
NHDES/USACE Permits	No	Likely	No
MS4 - Stormwater Treatment	No	Likely	No
Federal and State Listed Species Impacts	No	Likely	No
Benefit-Cost Ratio	24.73	0.73	2.96
Lives Saved and Serious Injuries Prevented	<1	4	5



Using comprehensive data analytics, the VHB team helped the New Hampshire Department of Transportation (NHDOT) gain top value for its investment in this much-needed safety improvement project—**nearly quadrupling the project’s original length and expanding the expected safety benefits without affecting its budget or schedule.** The

project was originally scoped as a spot treatment of a 1.2-mile high-crash segment of NH Route 101 in Milford proposing passing lanes and roadway widening. VHB was hired to conduct a comprehensive safety analysis led utilizing traffic and speed data from Accurate Counts. But VHB’s **exhaustive safety analysis and rigorous alternatives analysis** determined a painted

six-foot median buffer with rumble strips and pavement markings to be the most beneficial, safety-enhancing option, while also considering long-term maintenance and environmental impacts. Construction has begun and the project has an anticipated completion date of November 2024.

NHDOT is eager to adopt data-driven national safety best practices and this project compellingly showcases the merits of doing so. Saving NHDOT substantial costs, the median buffer countermeasure is also environmentally sustainable by reducing concrete and remaining within the roadway’s footprint. This project sets the stage for prioritizing and effectively mitigating safety issues along the Wilton-to-Bedford Route 101 corridor and beyond.

SUBMITTED BY:



CLIENT:

