

Historic Project Costs Used for - Programming Estimate 0-5%

Project	Scope of Work	Year Advertised	Typical ¹	Length ²	Lane Miles	\$million/mile ³	\$million/lane mi ⁴	CONSTRUCTION COSTS				
								BID ITEMS/CBI	Other Costs	CE	TOTAL ⁵	Special Considerations
13953 Bedford	Reconstruct NH 101 to 5 lanes from 114 to Wallace Road	2017	12-12-12-12-12-12	2	10.8	\$8,915,112.50	\$1,485,852.08	\$ 15,834,005.00	\$ 1,000,000.00	\$ 996,220.00	\$ 17,830,225.00	Other Costs - Cont Soils & Lighting. Many signals and water quality measures.
10439 Roxbury-Sullivan	Reconstruct NH 9 and add shoulders. Replace bridge over Otter brook.	2017	12-4	2.1	5.6	\$5,103,588.57	\$1,913,845.71	\$ 9,629,025.00	\$ 688,511.00	\$ 400,000.00	\$ 10,717,536.00	Other Costs - ARM and Cont Soils. High stone fill qty, 12" underdrain (10,840 LF), high MOT (\$250,000), RWIS (\$135,000), high mob (\$584,400 for roadway, \$974,000 total) - Does not include the bridges
2017 Averages						\$ 7,009,350.54	\$ 1,699,848.90					
14121 Barnstead	Widen and reconstruct NH 28 with profile adjustments at North Road	2019	12-4	1.2	3.2	\$3,647,377.50	\$1,367,766.56	\$ 4,126,853.00	\$ -	\$ 250,000.00	\$ 4,376,853.00	Temp pavement, 6" underdrain (6950 LF), portable queue warning sys, (\$100,800)
10431 Ossipee	Reconstruction of NH 16, removal of concrete slab and add shoulders.	2019	12-4	1.2	3.2	\$3,441,055.83	\$1,290,395.94	\$ 3,834,267.00	\$ 95,000.00	\$ 200,000.00	\$ 4,129,267.00	Other Costs - Contamination. 6" underdrain (5,550 LF), high mob (\$358,000)
2019 Averages						\$ 3,544,216.66	\$ 1,329,081.25					
13692C Bedford	Widen from 2 to three lanes for a turn lane. Replace bridge at Pulpit brook	2021	12-8 (w/left turn lane)	0.36	1.56	\$9,436,130.56	\$2,623,785.39	\$ 3,187,007.00	\$ -	\$ 210,000.00	\$ 3,397,007.00	One Bidder. Temporary diversion needed to construct the new bridge. Total cost does not include the Bridge Estimate
16303 Danbury	Reconstruct US 4 to construct new bridge off line	2021	12-5	0.35	1	\$6,860,380.00	\$2,421,310.59	\$ 1,996,133.00	\$ 205,000.00	\$ 200,000.00	\$ 2,401,133.00	New bridge off line, Other Costs-fiber relocation and arm fund. Total does not include the bridge estimate
2021 Averages						\$ 8,148,255.28	\$ 2,522,547.99					
41251 Ossipee	Widen and reconstruct NH 16, removal of concrete slab	2022	11-5	2.3	6.13	\$4,312,035.22	\$1,617,013.21	\$ 9,417,681.00	\$ -	\$ 500,000.00	\$ 9,917,681.00	No Arm Payment. Concrete slab removal, full box recon with a temporary widening to maintain 2-way traffic.
10136D Merrimack	Reconstruct and widen NH 101A	2022	5-11-11-11-11-11-11-11-11-5	0.47	3.525	\$21,743,046.81	\$2,662,413.89	\$ 9,854,762.00		\$ 364,470.00	\$ 10,219,232.00	Step box widen and overlay. Very urban and many TC phases due to high traffic volumes. Assumed same width on 101A and Cont Blvd and excluded Craftman Ln
13761D Nashua-Merrimack-Bedford	FE Everett Turnpike widening of 2 lane section from north of Exit 13 to I293 diverge	2022	12-12-12-12-24-12-12-12-10	1.59	15.64	\$ 11,663,530.22	\$ 1,185,742.52	\$ 17,506,013.05	\$ 4,500.00	\$ 1,034,500.00	\$ 18,545,013.05	Other Costs - Inspection
13065A Derry-Londonderry	I93 Exit 4A, final design and construction of a new interchange and connecting roadway	2022	4-12-12-10	2.05	10	\$ 14,661,187.89	\$ 3,005,543.52	\$ 27,465,313.15	\$ 130,000.00	\$ 2,460,122.02	\$ 30,055,435.17	Other Costs - Inspection
2022 Averages						\$ 13,094,950.04	\$ 2,117,678.21					
13761E Nashua-Merrimack-Bedford	FE Everett Turnpike widening of 2 lane section from Bedford Road to south of Exit 13	2023	10-12-12-12-24-12-12-12-12	0.93	9.14	\$ 19,678,844.89	\$ 2,002,333.23	\$ 17,126,875.75	\$ 15,000.00	\$ 1,159,450.00	\$ 18,301,325.75	Other Costs - Inspection
16304B Dummer-Cambridge-Errol	Widen and reconstruct NH 16	2023	11-4	1.25	3.12	\$8,270,485.60	\$3,308,194.24	\$ 9,922,107.00	\$ 1,257,885.00	\$ 416,000.00	\$ 10,338,107.00	Arm Fund \$1.5M.
29601 Concord	Intersection Improvements at I89 Exit 2 NB and SB ramps	2023	11-12-12-11	0.25	0.96	\$ 9,673,918.00	\$ 2,519,249.48	\$ 2,209,479.50	\$ 9,000.00	\$ 200,000.00	\$ 2,418,479.50	Other Costs - Inspection
2023 Averages						\$ 12,541,082.83	\$ 1,770,176.16					
29613 Loudon-Canterbury	Reclaim and widen to add center turn lane.	2018	12-12-12-12-12	0.91	4.55	\$2,902,039.56	\$580,407.91	\$ 2,276,475.00	\$ 106,102.00	\$ 258,279.00	\$ 2,640,856.00	Reclaim and step box widen.
29613A Loudon-Canterbury	Reclaim and widen to add center turn lane.	2020	12-12-12-12-12	3.55	17.75	\$2,224,308.17	\$444,861.63	\$ 7,413,784.00	\$ 103,087.00	\$ 379,423.00	\$ 7,896,294.00	Reclaim and step box widen. Included an overlay of 1/2 mile not included in length.

How to use the data: These project costs are being provided to assist estimators in developing project costs early in a projects life. By using this data, more projects will have a more accurate programmed cost during the early stages of development. Estimators are encouraged to use projects that most closely match the project they are trying to estimate and then apply an inflation factor of 3.7%/year if the projects used are more than 2 years old.

For general use assume a cost between \$1.7 and \$2.3 million/Lane Mile

Sample Lane Mile Calculation:

A project with a length of 1.5 miles and 12' traveled lanes and 4' shoulders

$12+12+4+4 = 32' / 12 = 2.67 \text{ Lanes/Mile} * 1.5 \text{ miles} = \mathbf{4.0 \text{ Lane Miles}}$

Yearly Average Summary Table		
Year Advertised	\$Million/Mile (Average)	\$Million/Lane mile (Average)
2017	\$ 7,009,350.54	\$1,699,848.90
2019	\$ 3,544,216.66	\$1,329,081.25
2021	\$ 8,148,255.28	\$2,522,547.99
2022	\$ 13,094,950.04	\$2,117,678.21
2023	\$ 12,541,082.83	\$1,770,176.16

Notes:

1. Typical noted is the majority of what is constructed for the principal roadway. Widening at intersections are not considered.
2. Length noted is from Begin to End Construction of the principal roadway excluding the length of bridges.
3. Cost per mile is the Total Construction cost divided by the length noted.
4. Cost per lane mile is the total cost divided by the total lane miles including the shoulder width.
5. Total Construction is the low bid for the project excluding the bridge items.