



200 FRIBERG PARKWAY, WESTBOROUGH, MA 01581
PHONE: (774) 760-0495 FAX: (774) 760-0017

ISSUE BRIEF

2017-2021 MassDOT Capital Investment Plan (CIP)

July 27, 2016

On June 20, Secretary Stephanie Pollack released a \$14.8 Billion transportation investment plan, the 2017-2021 Capital Investment Plan (CIP). The Plan proposes significant and sustained investment in the transportation infrastructure of the entire Commonwealth. In comparison to previous CIP plans, this plan is the product of an effort to reinvent capital planning for the Commonwealth's entire multi-modal transportation system with input provided by transportation partners, stakeholders, and elected officials.

Please note that some FY17-21 projects have only a portion of the project's total cost budgeted in the next 5 years.

Highlights of appropriations affecting the 495/MetroWest region include:
(*Italicized=Added to Final CIP*)

ACTON

- \$6,384,000 for the construction of the Bruce Freeman rail trail in Acton and Concord (Phase II-B)
- \$510,400 for intersection & signal improvements for Massachusetts Avenue at Piper Road and Taylor Road
- \$6,750,000 for extension of Bruce Freeman Rail Trail in Acton, Carlisle, and Westford (\$2,301,787 expended in prior years) (Phase II-A)
- \$5,954,119 for Assabet River Rail Train construction in Acton and Maynard (\$1,510,000 expended in prior years)

BELLINGHAM

- \$792,311 for bridge demolition, B-06-011, Route 126 over CSX railroad and installation of bike path culvert (\$1,679,023 expended in prior years)

BERLIN

- \$12,501,060 for interstate maintenance & related work on I-495 in Marlborough, Hudson, and Berlin (Project total is \$15,385,920)

BOLTON

- \$6,253,600 Guide and traffic sign replacement on I-495 from Bolton to Lowell
- \$8,165,745 *Guide and traffic sign replacement on I-495 from Raynham to Bolton (\$10,010 expended in prior years)*

BOXBOROUGH

- \$5,815,652 for replacement of bridge B-18-002, Route 111 over I-495 (Project total is \$16,720,000)

FOXBOROUGH

- \$5,946,988 for resurfacing and related work on Route 1 in Foxborough and Walpole (Project total is \$9,190,800)
- \$6,983,101 *for Interstate maintenance & related work on I-495 NB & SB in Foxborough, Franklin, Mansfield, Plainville and Wrentham (up from \$1,760,000 in DRAFT CIP)*

FRAMINGHAM

- \$6,981,267 *for bridge betterment, F-07-045, I-90 over MDC Reservoir*
- \$1,215,000 *for bridge replacement F-07-001 Route 9 over Reservoir outlet (\$7,694,353 expended in prior years)*
- \$120,000 *for bridge replacement F-07-009 Central St. over Sudbury River, includes rehab of Wickford Rd Bridge (\$4,835,392 expended in prior years)*
- \$6,480,250 *for bridge replacement F-07-009 Winter St. over MBTA, AMTRAK, & CSX Railroad (\$2,915,517 expended in prior years)*
- \$300,000 *for deck, joint, and substructure repairs on F-07-018, Mount Wayte Ave over MBTA/CSX (\$263,180 expended in prior years)*
- \$2,387,500 *for reconstruction of Route 126 (Concord St.) (\$5,230,414 expended in prior years)*
- \$1,021,162 for cleaning and painting two bridges over I-90 on Interchange 12 and Grove Street
- \$148,500 for adaptive signal control on Route 9 in Framingham and Natick
- \$8,247,294 for Cochituate Rail Trail construction including pedestrian bridge, N-03-014, over Route 9 and F-07-033_N-03-029 over Route 30 in Framingham and Natick
- \$1,240,272 for stormwater improvements along Route 9, Route 2A, Route 110, Route 111, Route 146 and I-290 in Framingham and Natick (Also extends outside 495MW region to Ayer, Millville, Uxbridge and Worcester)

FRANKLIN

- \$1,375,911 for pedestrian bridge construction, F-08-005, Old SR 140 over MBTA/CSX (\$74,992 expended in prior years)
- \$1,240,492 for reconstruction of Route 140, Main St. and Emmons St. Includes rehab of F-08-007 over MBTA (\$4,916,426 expended in prior years)
- \$6,983,102 for Interstate maintenance & related work on I-495 NB & SB in Franklin, Foxborough, Mansfield, Plainville and Wrentham (up from \$1,760,000 in DRAFT CIP)

GRAFTON

- \$20,451,306 for resurfacing and related work on I-90 in Grafton and Millbury

HARVARD

- \$12,726,353 for resurfacing and related work on Route 2 in Harvard, Lancaster, and Littleton (Total Project Cost is \$19,668,000)

HOPEDALE

- \$2,258,927 for resurfacing and intersection improvements on Route 16 in Hopedale and Milford (Total Project cost is \$2,742,983)
- \$944,593 for stormwater improvements along Routes 140 and 146 in Hopedale and Uxbridge

HOPKINTON

- \$12,000,000 for construction and relocation of research and material laboratory from South Boston (\$18,307,342 expended in prior years)
- \$4,237,655 for signal and intersection improvements on Route 135 (Total Project cost is \$8,778,000)
- \$4,609,495 for installation of cameras, message signs, and communication infrastructure on I-495 (\$5,769,775 expended in prior years)
- \$8,856,470 for Fruit St. bridge replacement (H-23-006-W-24-016) in Hopkinton and Westborough
- \$31,749,020 for reconstruction of I-90/I-495 Interchange in Hopkinton and Westborough (Total Project Cost is \$269,886,667)

HUDSON

- \$5,779,344 for replacement of bridge H-25-003, State Route 85 (Washington St.) over the Assabet River (up from \$4,653,792 in Draft CIP)
- \$12,501,060 for interstate maintenance & related work on I-495 in Hudson, Berlin, and Marlborough (Total Project Cost is \$15,385,920)

LITTLETON

- \$12,726,353 for resurfacing and related work on Route 2 in Littleton, Harvard, and Lancaster (Total Project Cost is \$19,668,000)
- \$1,074,843 for interstate maintenance and related work on I-495 in Littleton and Westford (Total Project cost is \$17,197,488)
- \$373,431 for bridge replacement, Taylor St. over I-495 NB & SB, I-495 NB & SB over Route 2, and I-495 NB & SB over Railroad Bridge (\$31,346,211 expended in prior years)

MARLBOROUGH

- \$12,501,060 for interstate maintenance & related work on I-495 in Marlborough, Berlin, and Hudson (Total Project cost is \$15,385,920)
- \$13,633,437 for interstate maintenance and related work on I-290 in Marlborough and Northborough (\$918,367 expended in prior years)
- \$5,152,103 for reconstruction of Route 85 (Maple St.)
- \$10,973,600 for resurfacing and related work on Route 20 in Marlborough and Sudbury
- \$656,000 for stormwater improvements along Route 20 in Marlborough and Sudbury

MAYNARD

- \$5,954,119 for Assabet River Rail Trail construction in Maynard and Acton (\$1,510,000 expended in prior years)

MEDWAY

- \$9,540,594 Reconstruction on Route 109, from Holliston St. to 100 ft. west of Highland St. (\$1,060,604 expended in prior years)

MILFORD

- \$2,258,927 for resurfacing and intersection improvements on Route 16 in Milford and Hopedale (Total Project cost is \$2,742,983)

NATICK

- \$1,625,000 for bridge replacement, N-03-003, Marion St. over MBTA Railroad (\$1,045,564 expended in prior years)
- \$12,944,901 for reconstruction of Route 27 from North Ave. to the Wayland T.L. (Total Project cost is \$15,718,808)
- \$13,965,600 for resurfacing and related work on I-90 in Natick, Wayland, and Weston (Total Project cost is \$15,180,000)
- \$1,240,272 for stormwater improvements along Route 9, Route 2A, Route 110, Route 111, Route 146 and I-290 in Framingham and Natick (Also extends outside 495MW region to Ayer, Millville, Uxbridge and Worcester)
- \$148,500 for adaptive signal control on Route 9 in Framingham and Natick

- \$8,247,294 for Cochituate Rail Trail construction including pedestrian bridge over Route 9 and bridge over Route 30 (project also extends to Framingham)
- \$3,500,000 for Natick Center Station Accessibility Project

NORTHBOROUGH

- \$12,838,032 for resurfacing and related work on Route 9 in Northborough, Shrewsbury and Westborough
- \$1,368,280 for structural steel cleaning and painting of overhead bridges on I-290 in Northborough, Boylston, and Worcester
- \$13,633,437 for interstate maintenance and related work on I-290 in Marlborough and Northborough (\$918,367 expended in prior years)

SHREWSBURY

- \$14,084,514 for interstate maintenance and related work on I-290 in Shrewsbury, Boylston, and Northborough
- \$12,685,951 for bridge rehabilitation on Boylston Street (Route 140) over I-290
- \$457,380 for intersection and signal improvements at US 20 and Grafton Street
- \$12,838,032 for resurfacing and related work on Route 9 in Shrewsbury, Northborough, and Westborough
- \$6,408,149 for resurfacing and related work on Main Street from I-290 ramps Easterly to Maple Avenue (up from \$5,233,962)
- *\$1,750,000 for bridge rehabilitation Route 9 (Belmont St.) over Lake Quinsigamond in Shrewsbury and Worcester (aka Kenneth F. Burns Bridge - \$103,396,646 expended in prior years)*
- *\$420,506 for stormwater improvements along Route 68 and Route 70 in Shrewsbury and Gardner (\$206,661 expended in prior years)*
- *\$457,380 for Intersection and signal improvement at US 20 (Hartford Turnpike) at Grafton Street*

SOUTHBOROUGH

- \$7,259,495 for reconstruction of Main Street (Route 30) from Sears Road to Park Street
- \$2,456,400 for resurfacing and related work on Route 30
- \$4,599,139 for resurfacing and related work on Route 9 from Framingham T.L. to White Bagley Road
- *\$1,125,000 for resurfacing and related work on Route 9 in Southborough and Westborough (\$7,779,121 expended in prior years)*

STOW

- \$992,296 for bridge replacement, Box Mill Road over Elizabeth Brook (Total Project cost is \$1,630,200)

SUDBURY

- \$10,973,600 for resurfacing and related work on Route 20 in Sudbury and Marlborough
- \$656,000 for stormwater improvements along Route 20 in Sudbury and Marlborough

UPTON

- \$7,562,926 for reconstruction of Hartford Avenue North, High Street, and Hopkinton Road (Total Project cost is \$9,889,980)

WAYLAND

- \$13,965,600 for resurfacing and related work on I-90 in Wayland, Natick, and Weston (Total Project cost is \$15,180,000)
- \$2,263,296 for *signal and intersection improvements at Route 27 (Main St.) and Route 30 (Commonwealth Rd.)* (\$70,000 expended in prior years)

WESTBOROUGH

- \$8,856,470 for bridge replacement, Fruit St. over CSX & Sudbury River in Westborough and Hopkinton (down from \$9,000,000)
- \$31,749,020 for reconstruction of I-90/I-495 Interchange in Hopkinton and Westborough (Total Project Cost is \$269,886,667)
- \$12,838,032 for resurfacing and related work on Route 9 in Westborough, Northborough, and Shrewsbury
- \$8,212,557 for intersection and signal improvements at Route 9 and Lyman Street
- \$1,125,000 for *resurfacing and related work on Route 9 in Westborough and Southborough* (\$7,779,121 expended in prior years)

WESTFORD

- \$1,074,843 for interstate maintenance and related work on I-495 in Westford and Littleton (Total Project cost is \$17,197,488)
- \$3,511,352 for intersection and signal improvements at Route 110 and Tadmuck Road
- \$1,760,000 for intersection improvements at Groton Road (Route 40) and Dunstable Road
- \$2,012,351 for intersection improvements at Groton Road (Route 40) and Oak Hill Road
- \$6,750,000 for *extension of Bruce Freeman Rail Trail in Westford, Acton and Carlisle* (\$2,301,787 expended in prior years) (Phase II-A)

WRENTHAM

- \$6,983,102 for *Interstate maintenance & related work on I-495 in Wrentham, Franklin, Foxborough, Mansfield, and Plainville*

In reference to the I-90/I-495 Interchange Improvement Project, a long standing priority of the Partnership, the CIP notes:

Transportation systems work only as networks, both modal (among roads or transit lines) and intermodal where users can switch from one mode (walking or biking) to another (transit or driving). In choosing projects within modernization programs and in planning future modernization investments, this CIP therefore seeks opportunities to improve such network linkages and economic development.

For example, the interchange of the Massachusetts Turnpike (I-90) with I-495 has been identified both in a joint study by the Boston and Central Massachusetts MPOs and by elected officials in central Massachusetts as a critical linkage in need of redesign and re-construction. The introduction of All-Electronic Tolling on I-90 increases the importance of network improvements in this area. This CIP therefore allocates toll revenue and reserves from the western Turnpike to design and construct improvements at this critical interchange. (pp. 18-19)

DISTRICT 3

- \$2,180,000 for cleaning and painting structural steel bridges along I-90 (\$300,000 expended in prior years)
- \$630,000 for concrete median barrier coating at various locations on I-90 (\$61,477 expended in prior years)
- \$615,692 for concrete median barrier coating at various locations on I-90
- \$67,807,129 for demolition of legacy toll plazas along I-90
- \$2,781,304 for installation of CCTV camera and VMS on I-290, between I-495 and I-90 (\$140,300 expended in prior years)
- \$1,146,459 for scheduled and emergency bridge deck repairs at various locations along I-90 (\$1,275,700 expended in prior years)
- \$2,086,800 for scheduled and emergency bridge deck repairs at various locations on I-90
- \$2,293,887 for scheduled and emergency bridge structural and substructure repairs and related work at various locations along I-90 (\$10,000 expended in prior years)
- \$897,205 for scheduled and emergency guardrail repairs and improvements at various locations along I-90 (\$60,000 expended in prior years)
- \$3,157,450 for substructure and structural bridge repairs along I-90

STATEWIDE

- \$35,989,000 for all-electronic tolling system (AETS) on I-90 and the Harbor Crossings (Design-Build) (\$68,697,737 expended in prior years and total project cost is \$132,750,817)
- \$1,120,000 for communications systems enhancements and upgrades on I-90
- \$1,004,640 for conversion of Interstate and freeway exit numbers to milepost-based (\$999,451 expended in prior years)

- \$232,000 for facility maintenance and repairs at various locations on I-90
- \$112,000 for fire detection systems testing and repairs at various locations on I-90
- \$158,824 for generator testing and repairs at various locations on I-90 (Total Project cost is \$300,000)
- \$132,766 for installation of permanent variable message signs (VMS) on I-90 at various locations (Total Project cost is \$427,800)
- \$257,600 for removal and replacement of underground fuel tanks at various locations on I-90
- \$224,000 for repair and replacement of fuel pump systems at various locations on I-90
- \$454,588 for roof replacement and repairs at various locations on I-90 (Total Project cost is \$483,000)

MetroWest RTA

- *\$20,000 for acquisition of miscellaneous support equipment*
- *\$287,014 for acquisition of bus support equipment and facilities*
- *\$750,000 for construction of miscellaneous electrical and power equipment*
- *\$1,000,000 for construction of bus stations and terminals*
- *\$31,250 for mobility management*
- *\$187,500 for terminal and intermodal rehab and renovation*
- *\$187,500 for terminal and intermodal rehab and renovation*

MBTA

- \$4,214,625 for Fitchburg Line bridge program (\$5,785,375 expended in prior years)
- \$9,182,465 for Fitchburg Line Improvement - signals (\$20,779,903 expended in prior years)
- \$782,788 for Fitchburg Line Improvement - stations (\$9,259,112)
- \$2,020,142 for Fitchburg Line Improvement - stations (\$4,571,579 expended in prior years)
- \$7,162,323 for Fitchburg Line Improvement - track improvement (\$16,208,324)
- \$3,767,842 for CSX Worcester Line Improvement - track work (\$4,138,498 expended in prior years)
- \$1,025,021 CSX Worcester Line Improvement - track (\$12,474,979 expended in prior years)
- \$300,000 for CSX Worcester Line Improvements - track work (\$5,200,000 expended in prior years)
- \$3,500,000 for Natick Center Station Accessibility Project
- \$17,278,065 for Commuter Rail Miscellaneous Equipment Winter Resiliency (\$5,964,832 expended in prior years)
- \$1,114,272 Commuter Rail PTC Implementation Phase 1 (\$2,085,728 expended in prior years)

- \$200,000,000 Commuter Rail Track and Signal Improvements (strategic plan placeholder)
- \$150,000,000 for Commuter Rail Coach Procurement
- \$69,120,000 for Commuter Rail Locomotive Reliability
- \$17,280,000 for Commuter Rail Locomotive Reliability (top deck overhaul program)

RAIL

- \$3,672,000 for bridge repairs and replacements on Framingham Secondary
- \$1,101,600 for culvert repairs and improvements on Framingham Secondary
- \$150,000 for dispatching on Framingham Secondary
- \$1,705,440 for grade-crossing and surface improvements On Framingham Secondary
- \$3,713,820 for grade-crossing signal improvements on Framingham Secondary
- \$1,250,000 for inspection, maintenance, and regulatory compliance on Framingham Secondary
- \$299,200 for Mansfield Yard and Walpole Yard improvements (Fencing & Misc.) on Framingham Secondary
- \$1,122,000 for Mansfield Yard and Walpole Yard switches and track work on Framingham Secondary
- \$299,200 for other on Framingham Secondary
- \$687,500 for property support on Framingham Secondary
- \$7,015,976 for track and right-of-way SGR on Framingham Secondary
- \$299,200 for various track and right-of-way improvements on Framingham Secondary
- \$1,360,000 for Walpole interlocking modifications on Framingham Secondary

For more information regarding the 2017-2021 Capital Investment Plan (CIP), please contact Jessica Strunkin, Deputy Director of Public Policy & Public Affairs at Jessica@495partnership.org.