

FFY 2022-2026 Transportation Improvement Program (TIP) - April 2021

Federal Funding Program	ALI	2022	2023	2024	2025	2026	FFY22-26 Total (Federal)	FFY22-26 Total (Incl. Match)
5307		\$149,839,571	\$152,401,827	\$155,007,899	\$157,658,534	\$160,354,495	\$775,262,326	\$969,077,908
Revenue Vehicle Program	12.12.00	\$117,756,381	\$117,756,381	\$117,756,381	\$117,756,381	\$117,756,381	\$588,781,905	\$735,977,381
Signals/Systems Upgrade Program	12.63.01	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Stations and Facilities Program	12.34.00	\$32,083,190	\$34,645,446	\$37,251,518	\$39,902,153	\$42,598,114	\$186,480,421	\$233,100,526
5337		\$151,084,011	\$153,667,547	\$156,295,263	\$158,967,911	\$161,686,263	\$781,700,995	\$977,126,244
Bridge & Tunnel Program	12.24.05	\$47,231,542	\$47,231,542	\$47,231,542	\$47,231,542	\$47,231,542	\$236,157,709	\$295,197,136
Revenue Vehicle Program	12.12.00	\$12,131,862	\$12,131,862	\$12,131,862	\$12,131,862	\$12,131,862	\$60,659,309	\$75,824,136
Signals/Systems Upgrade Program	12.63.01	\$68,437,082	\$68,437,082	\$68,437,082	\$68,437,082	\$68,437,082	\$342,185,412	\$427,731,765
Stations and Facilities Program	12.34.00	\$23,283,525	\$25,867,061	\$28,494,777	\$31,167,425	\$33,885,777	\$142,698,565	\$178,373,206
5339		\$6,208,003	\$6,314,160	\$6,422,132	\$6,531,951	\$6,643,647	\$32,119,893	\$40,149,866
Bus Program	11.14.00	\$6,208,003	\$6,314,160	\$6,422,132	\$6,531,951	\$6,643,647	\$32,119,893	\$40,149,866
FFY22-26 FTA Formula Funding		\$307,131,585	\$312,383,534	\$317,725,294	\$323,158,396	\$328,684,405	\$1,589,083,214	\$1,986,354,017
5309 - GLX		\$46,121,000	\$0	\$0	\$0	\$0	\$46,121,000	\$92,242,000
Green Line Extension	13.23.03	\$46,121,000	\$0	\$0	\$0	\$0	\$46,121,000	\$92,242,000
Other Federal		\$586,594,981	\$316,691,912	\$284,582,391	\$147,500,000	\$125,000,000	\$1,460,369,284	\$1,460,369,284
RRIF Financing - PTC/ATC/Fiber	12.63.01	\$439,094,981	\$169,191,912	\$137,082,391	\$0	\$0	\$745,369,284	\$745,369,284
RRIF/TIFIA Financing Program	12.24.05	\$147,500,000	\$147,500,000	\$147,500,000	\$147,500,000	\$125,000,000	\$715,000,000	\$715,000,000
FFY22-26 Total Federal Funding		\$939,847,566	\$629,075,446	\$602,307,685	\$470,658,396	\$453,684,405	\$3,095,573,498	\$3,538,965,301

Note:

FTA formula funds (5307, 5337 and 5339) are based on estimated apportionments for FFY22-26.

TIP programs and projects are based on the preliminary FY22-26 CIP and planned federal obligations as of Apr-21. Adjustments will be made to federal projects and budgets as the FY22-26 CIP process is finalized.

The Activity Line Item (ALI) codes are preliminary only and generally reflect the bulk of the TIP program. Within a program there may be several different ALI codes used.

Green Line Extension funding is based on the FFGA. \$850.0M obligated to date and another \$100.0M is expected to be obligated in FFY21, leaving a \$46.1M balance.

RRIF loan funding for the PTC/ATC/Fiber Resiliency project is based on the planned drawdown schedule and is subject to change.

RRIF/TIFIA financing program funding is an initial estimate and will be refined as projects are identified and loans are finalized with the Build America Bureau.

**MBTA Federal Capital Program
FFY 2021 and FFY 2022-2026 TIP - Project List and Descriptions (80% Federal Share)**

Funds	TIP Program	CIP ID#	Project Name	FFY 2021	FFY 2022-2026	Total (Federal)	Project Description
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FTA Formula Funds (5307, 5337, 5339)

5307 - Revenue Vehicles

5307	Revenue Vehicles	P0369	Green Line Type 10 Light Rail Fleet Replacement	\$37,801,325	\$321,808,529	\$359,609,854	Replacement of Light Rail Vehicles to replace the existing Green Line Type 7 and 8 Fleets.
5307	Revenue Vehicles	P0653	Procurement of Battery Electric 40ft Buses and Related infrastructure	\$0	\$41,437,713	\$41,437,713	Procurement of Battery Electric 40ft Buses and Related infrastructure
5307	Revenue Vehicles	P0618	Delivery of 40 ft Buses - FY 2021 to FY 2025	\$0	\$133,254,827	\$133,254,827	Procurement of 40-foot electric and hybrid buses for replacement of diesel bus fleet.
5307	Revenue Vehicles	P0619	Dual Mode Articulated (DMA) Bus Replacement	\$71,356,024	\$0	\$71,356,024	Procurement of 60-foot DMA buses to replace the existing fleet of 32 Silver Line BRT buses and to provide for ridership expansion projected as a result of Silver Line service extension to Chelsea.
5307	Revenue Vehicles	P0649	Option Order Procurement of 194 New Flyer Hybrid 40 ft Buses	\$0	\$5,844,571	\$5,844,571	Procurement of 40-foot buses with hybrid propulsion to replace Emission Controlled Diesel (ECD) buses that have reached the end of their service life.
5307	Revenue Vehicles	P0650	Overhaul of 33 Kawasaki 900 Series Bi-Level Coaches	\$4,800,000	\$30,560,000	\$35,360,000	Overhaul and upgrade of existing systems on commuter rail coaches that were brought into service in 2005 to enable optimal reliability through the end of their service life.
5307	Revenue Vehicles	P0652	Procurement of Bi-Level Commuter Rail Coaches	\$0	\$35,076,265	\$35,076,265	Procurement of bi-level commuter rail coaches to replace existing cars that have exceeded their service life.
5307	Revenue Vehicles	P0911	156 Hybrid, 175 CNG, 45 60ft Hybrid Bus Overhaul Program	\$0	\$20,800,000	\$20,800,000	Overhaul of MBTA bus fleet (hybrid and CNG)
				\$113,957,349	\$588,781,905	\$702,739,254	

5307 - Stations and Facilities

5307	Stations and Facilities	P0066e	Harvard/Central Elevator	\$5,347,007	\$0	\$5,347,007	Elevator Improvements at Harvard/Central to address station accessibility needs.
5307	Stations and Facilities	P0104	Charlestown Bus - Seawall Rehab	\$930,609	\$0	\$930,609	Rehabilitation of existing seawall to protect bus maintenance facility from future storm and flooding events.
5307	Stations and Facilities	P0165	Harvard Square Busway Repairs	\$1,600,000	\$0	\$1,600,000	Rehabilitation of roadway, drainage and catenary infrastructure at the Harvard Square Busway.
5307	Stations and Facilities	P0671a	Bus Facility Modernization Program - Quincy Bus Facility	\$111,020,540	\$186,480,420	\$297,500,960	Replace the existing Quincy bus facility to provide additional capacity to support future service growth and a transition to battery electric buses.
				\$118,898,155	\$186,480,420	\$305,378,575	

5337 - Bridge and Tunnel

5337	Bridge and Tunnel	P0006	Gloucester Drawbridge Replacement	\$4,246,758	\$8,156,224	\$12,402,982	Replacement of Gloucester Drawbridge with two new independent/operational and functioning movable bascule bridges.
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**MBTA Federal Capital Program
FFY 2021 and FFY 2022-2026 TIP - Project List and Descriptions (80% Federal Share)**

Funds	TIP Program	CIP ID#	Project Name	FFY 2021	FFY 2022-2026	Total (Federal)	Project Description
5337	Bridge and Tunnel	P0008	Emergency Bridge Design / Inspection & Rating	\$0	\$2,379,908	\$2,379,908	Inspection of bridge assets system wide for determination of asset condition ratings and subsequent prioritization and scoping for repairs to select bridges.
5337	Bridge and Tunnel	P0009	Bridges - Design	\$0	\$10,480,489	\$10,480,489	Design for high priority bridge repairs system wide.
5337	Bridge and Tunnel	P0037	Emergency Bridge Repair	\$0	\$2,369,753	\$2,369,753	Repairs to bridges system wide, based on asset condition as determined by system wide inspections.
5337	Bridge and Tunnel	P0182	Tunnel Rehab	\$0	\$705,198	\$705,198	Repair and rehabilitation of transit tunnels system wide.
5337	Bridge and Tunnel	P0495	Bridge Bundling Contract	\$0	\$47,357,564	\$47,357,564	Replacement of 6 commuter rail bridges: Lynn Fells Parkway in Melrose (Haverhill Line); Parker Street in Lawrence (Haverhill Line); Commercial Street in Lynn (Newburyport/Rockport Line); Bacon Street in Wellesley (Worcester Line); Intervale Road in Weston (Worcester Line); and High Line Bridge in Somerville (Lowell Line).
5337	Bridge and Tunnel	P0551	Longfellow Approach	\$0	\$91,088,476	\$91,088,476	Rehabilitation of the Longfellow Approach Viaduct, Charles/MGH Station platforms, and Span 1 of the Longfellow Bridge.
5337	Bridge and Tunnel	P0627	Inspection and Rating of MBTA Systemwide Bridges	\$0	\$43,432,800	\$43,432,800	Inspection of bridge assets system wide for determination of asset condition ratings.
5337	Bridge and Tunnel	P0851	Norfolk Ave & East Cottage Street Bridges	\$22,173,611	\$0	\$22,173,611	Replacement of East Cottage Street bridge with a new superstructure and substructure to meet design code/standards, as well as MBTA and FTA State of Good Repair requirements.
5337	Bridge and Tunnel	P0853	Robert Street Bridge	\$3,389,786	\$0	\$3,389,786	Replacement of bridge carrying the Needham Line Commuter Rail service over Robert Street in Roslindale.
5337	Bridge and Tunnel	P0907	East Street Bridge Replacement (Dedham)	\$0	\$14,400,000	\$14,400,000	Replacement of bridge carrying the Franklin Line commuter rail service and CSX freight service over East Street in Dedham.
5337	Bridge and Tunnel	R0074	Tunnel Inspection Systemwide	\$5,280,000	\$15,787,297	\$21,067,297	Inspection to assess condition of transit tunnels systemwide.
				\$35,090,154	\$236,157,709	\$271,247,864	
5337 - Revenue Vehicles							
5337	Revenue Vehicles	P0239	Locomotive Overhaul	\$10,000,000	\$11,906,527	\$21,906,527	Overhaul of commuter rail locomotives to improve fleet availability and service reliability systemwide.
5337	Revenue Vehicles	P0370	Green Line Train Protection	\$10,280,463	\$48,752,782	\$59,033,245	Installation of on-board and wayside equipment for a train monitoring system to determine allowable train separation, based on speed and location, and to prevent vehicles from passing a red signal.
				\$20,280,463	\$60,659,309	\$80,939,772	

**MBTA Federal Capital Program
FFY 2021 and FFY 2022-2026 TIP - Project List and Descriptions (80% Federal Share)**

Funds	TIP Program	CIP ID#	Project Name	FFY 2021	FFY 2022-2026	Total (Federal)	Project Description
5337 - Signals and Systems							
5337	Signals and Systems	P0097	45 High Street - Data Center Upgrades	\$1,200,000	\$0	\$1,200,000	Includes new fire suppression/alarm system as well as power, fiber, HVAC and other data center improvements at the MBTA operations center at 45 High Street, Boston.
5337	Signals and Systems	P0212	North Station Terminal Signal	\$0	\$4,000,000	\$4,000,000	Upgrades to the commuter rail signal/communication system in the North Station area required for more efficient phasing of future track alignments, including support for the future Draw1 Bridge Replacement Project.
5337	Signals and Systems	P0261	Worcester Line Track Improvements Incl. 3rd Track Feasibility Study	\$0	\$25,885,742	\$25,885,742	Construction of a new three-track section on the Framingham/Worcester Commuter Rail line to improve capacity, efficiency of operations and to bring 4 stations into full ADA compliance.
5337	Signals and Systems	P0283	Green Line Central Tunnel Signal - 25 Cycle	\$0	\$4,000,000	\$4,000,000	Replace 25Hz track circuits and related equipment within the Green Line central tunnel system.
5337	Signals and Systems	P0285	Signal Program - Red/Orange Line	\$37,768,206	\$72,194,222	\$109,962,427	Various signal upgrades and improvements along both the Red and Orange Lines.
5337	Signals and Systems	P0301	System-Wide Radio	\$30,039,735	\$21,030,405	\$51,070,140	Replacement of existing radio system for MBTA Police to support critical two-way communication for MBTA Transit Police and to support a secure and Interoperable Radio System.
5337	Signals and Systems	P0591	Green Line Central Tunnel Track and Signal Replacement	\$0	\$96,000,000	\$96,000,000	Replacement of the existing 25 cycle signal system and associated wayside equipment at Government Center, Copley and Park Street Interlockings, and related track work.
5337	Signals and Systems	P0654	Red Line Interlock Upgrades	\$9,600,000	\$0	\$9,600,000	Replacement of existing interlocking signal components on the Red Line to bring the assets to a state of good repair.
5337	Signals and Systems	P0705	Power Systems Resiliency Program	\$0	\$11,416,644	\$11,416,644	Installation of new duct bank systems to replace damaged power infrastructure, including at West Fourth Street, Dudley Square, Arlington Street, Causeway Street, two locations on Commonwealth Ave and three locations on Beacon Street.
5337	Signals and Systems	P0857	Mattapan HSL Transformation	\$0	\$94,400,000	\$94,400,000	State of good repair and accessibility improvements to all stations, improvements to the power infrastructure, strengthening of corridor bridges, improvements to corridor drainage, and other infrastructure improvements.
5337	Signals and Systems	P0904	Systemwide Asset Management Program Phase 3	\$2,800,000	\$6,000,000	\$8,800,000	Support the MBTA's asset management program in order to meet legislative requirements; including updates to the asset inventory for Transit Asset Management Plan (TAMP) and National Transit Database (NTD) reporting.
5337	Signals and Systems	R0117	Alewife Crossing Improvements	\$0	\$7,258,400	\$7,258,400	As part of the Red/Orange Line Infrastructure Improvement Program, this project will upgrade of track switches at Alewife Station and associated retrofits to accomodate these new components.
				\$81,407,941	\$342,185,412	\$423,593,353	
5337 - Stations and Facilities							
5337	Stations and Facilities	P0003	Green Line B-Branch Consolidation	\$23,422,633	\$0	\$23,422,633	Addressing accessibility issues along the B branch of the Green Line along Commonwealth Avenue.

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Funds	TIP Program	CIP ID#	Project Name	FFY 2021	FFY 2022-2026	Total (Federal)	Project Description
5337	Stations and Facilities	P0066	Elevator Program	\$0	\$12,405,121	\$12,405,121	Installation of new redundant elevators and the replacement of existing elevators at various stations, in order to mitigate degradation of station elevators and to maintain station accessibility during elevator maintenance.
5337	Stations and Facilities	P0074	Downtown Crossing Vertical Transportation Improvements Phase 2	\$0	\$5,926,390	\$5,926,390	Construction of two new redundant elevators, in order to improve accessibility and to provide for future elevator maintenance without rendering the station temporarily inaccessible.
5337	Stations and Facilities	P0075	Elevator Program Multiple Location Design	\$9,499,338	\$27,035,682	\$36,535,020	Design for the installation of new redundant elevators and the replacement of existing elevators system wide.
5337	Stations and Facilities	P0078	Hingham Ferry Dock Modification	\$400,000	\$0	\$400,000	Capital improvements and modifications to the existing ferry dock in Hingham.
5337	Stations and Facilities	P0087	Braintree and Quincy Adams Garage Rehab	\$9,295,936	\$0	\$9,295,936	The full repair and rehabilitation of the Red Line's Quincy Adams Station and Braintree Station parking garages.
5337	Stations and Facilities	P0129	Newton Highlands Green Line Station Accessibility Project	\$0	\$25,642,761	\$25,642,761	Improvements at Newton Highlands station on the D branch of the Green Line to comply with ADA accessibility standards.
5337	Stations and Facilities	P0163	Forest Hills Improvement Project	\$0	\$26,089,763	\$26,089,763	Improvements at Forest Hills Station on the Orange Line and Needham Commuter Rail Line to comply with ADA accessibility standards. Work will also include infrastructure and other improvements.
5337	Stations and Facilities	P0168	Symphony Station Improvements	\$37,436,159	\$0	\$37,436,159	Upgrades to the existing Symphony Station on the Green Line in order to provide a modern, accessible, code-compliant facility.
5337	Stations and Facilities	P0496	Silver Line Gateway - Phase 2	\$0	\$4,654,574	\$4,654,574	Includes the building of a new commuter rail station adjacent to the new Chelsea Bus Rapid Transit (BRT) Station located at the Mystic Mall, as well as decommissioning of the existing Chelsea Commuter Rail Station and signal prioritization.
5337	Stations and Facilities	P0679	Codman Yard Expansion and Improvements	\$43,822,058	\$12,088,880	\$55,910,938	Infrastructure improvements to Codman Yard, an additional Red Line storage facility, to accommodate the new vehicle fleet.
5337	Stations and Facilities	P0856	Ruggles Station Improvements Phase 2	\$2,599,003	\$0	\$2,599,003	Design for state of good repair improvements to Ruggles Station on the Orange Line.
5337	Stations and Facilities	P0890	Green Line Surface Station Accessibility I	\$0	\$15,624,828	\$15,624,828	Reconstruction of Green Line surface stations and related infrastructure to support compliance with ADA regulations and alignment with corridor capacity needs.
5337	Stations and Facilities	P0970	Attleboro Station Improvements	\$1,371,330	\$0	\$1,371,330	State of good repair and accessibility improvements to the Attleboro commuter rail station, in coordination with GATRA for project funding and scope development.
5337	Stations and Facilities	R0071	Lynn Station & Parking Garage Improvements Phase II	\$0	\$13,230,567	\$13,230,567	Extensive rehabilitation efforts include reconstruction of the existing commuter rail platform, upgrade of mechanical and electrical systems at the station, and structural repairs and code compliance retrofits to the garage.
				\$127,846,458	\$142,698,565	\$270,545,023	

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Funds	TIP Program	CIP ID#	Project Name	FFY 2021	FFY 2022-2026	Total (Federal)	Project Description
5339 - Bus and Bus Facility							
5339	Bus and Bus Facilities	P0653	Procurement of Battery Electric 40ft Buses and Related infrastructure	\$6,106,394	\$32,119,893	\$38,226,287	Procurement of Battery Electric 40ft Buses and Related infrastructure
				\$6,106,394	\$32,119,893	\$38,226,287	

Note: Project descriptions and dollar amounts are preliminary only and are provided for informational purposes. In many cases, the scopes of work and project budgets will become more fully developed as the design process proceeds and is completed. The MBTA may also opt to fund a project from a different FTA funding source based on the timing of projects and the availability of FTA funds.

RRIF/TIFIA Financing Program

Projects Potentially Funded by Federal RRIF/TIFIA Loans

RRIF/TIFIA Financing	P0671a	Bus Facility Modernization Program - Quincy Bus Facility
RRIF/TIFIA Financing	P0551	Longfellow Approach
RRIF/TIFIA Financing	P0552	Dorchester Avenue Bridge
RRIF/TIFIA Financing	P0952	Widett Layover Facility - Real Estate and Design
RRIF/TIFIA Financing	P0018	North Station Draw 1 Bridge Replacement
RRIF/TIFIA Financing	P0170	Newton Commuter Rail Stations
RRIF/TIFIA Financing	P0178	South Attleboro Station Improvements
RRIF/TIFIA Financing	P0863	South-Side CR Maintenance Facility

Note: The MBTA is exploring the use of federal loans through the Build America Bureau to finance certain capital projects at a lower interest rate than traditional tax-exempt bonds. This includes loans under the Railroad Rehabilitation & Improvement Financing (RRIF) and Transportation Infrastructure Finance and Innovation Act (TIFIA) programs. The projects listed above are being considered for this program, subject to the approval of funding through the CIP process. Additional project and funding information will be provided through a future TIP/Amendment if federal grant funds or loans are utilized.