

FFYs 2022-26 Transportation Improvement Program (TIP) Amendment Eight

Project	Proposed Change	Explanation	Section Funding Source	Overall Changes in Funding in TIP		
				From	To	Difference
FFY 2023 Transit Program						
12.24.05: MBTA - Bridge and Tunnel Program	Shift Funds	The budget for this category is being revised based on the carry-forward of FFY 2022 Section 5307 Urbanized Area and Section 5337 State of Good Repair funding.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$21,579,613	\$139,706,621	\$118,127,008
12.12.00: MBTA - Revenue Vehicle Program	Shift Funds	The budget for this category is being revised based on the carry-forward of FFY 2022 Section 5307 Urbanized Area and Section 5337 State of Good Repair funding.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$240,646,628	\$251,565,036	\$54,617,752
12.63.01: MBTA - Signals/Systems Upgrade Program	Shift Funds	The budget for this category is being revised based on the carry-forward of FFY 2022 Section 5307 Urbanized Area and Section 5337 State of Good Repair funding.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$42,270,857	\$189,745,746	\$147,474,889
12.34.00: MBTA - Stations and Facilities Program	Shift Funds	The budget for this category is being revised based on the carry-forward of FFY 2022 Section 5307 Urbanized Area and Section 5337 State of Good Repair funding.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$218,012,604	\$370,987,530	\$152,974,926
12.34.02: MBTA - North Wilmington Station - CARSII	Add Project	This project is being added to the TIP as a carry-forward of a 2022 Commuter Authority Rail Safety Improvement (CARSII) grant.	Other Federal / Local Funds	\$0	\$1,300,000	\$1,300,000
11.43.02: MBTA - Quincy Bus Facility Modernization	Add Project	This project is being added to the TIP as a carry-forward of 2022 funding.	Other Federal / Local Funds	\$0	\$5,000,000	\$5,000,000
12.31.02: South Salem Commuter Rail Stop Study	Add Project	This project is new to the TIP and is the recipient of a discretionary grant award.	Other Federal / Local Funds	\$0	\$465,000	\$465,000
11.21.01: Chelsea and Everett Route Planning	Add Project	This project is being added to the TIP as a carry-forward of 2022 funding.	Other Federal / Local Funds	\$0	\$7,601,000	\$7,601,000
11.13.01: Battery Electric Buses - Low-No	Add Project	This project is new to the TIP and is the recipient of a discretionary grant award.	Other Federal / Local Funds	\$0	\$136,470,588	\$136,470,588
12.24.05: South Elm Street Bridge Haverhill	Add Project	This project is being added to the TIP as a carry-forward of other federal 2022 Federal Railroad Administration (FRA) Formula funding.	Other Federal / Local Funds	\$0	\$15,192,862	\$15,192,862
12.21.03: MBTA Suicide Trespass Intervention	Add Project	This project is new to the TIP and is the recipient of a discretionary grant award.	Other Federal / Local Funds	\$0	\$100,000	\$100,000
11.23.01: Lynnway Multimodal Corridor	Add Project	This project is being added to the TIP for the recent award of a 2022 Rebuilding American Infrastructure with Sustainability and Equity (RAISE) Grant.	Other Federal / Local Funds	\$0	\$27,000,000	\$27,000,000
11.23.01: Blue Hill Avenue Corridor Project	Add Project	This project is being added to the TIP as a carry-forward of Other Federal funding in the form of a 2021 Rebuilding American Infrastructure with Sustainability and Equity (RAISE) Grant.	Other Federal / Local Funds	\$0	\$39,456,000	\$39,456,000
12.33.09: Alewife Wayfinding Improvements	Add Project	This project is being added to the TIP as a carry-forward of 2022 Congestion Mitigation and Air Quality funding.	CMAQ / Local Funds	\$0	\$292,280	\$292,280
12.43.01: MBTA Systemwide Bike Racks	Add Project	This project is being added to the TIP as a carry-forward of 2022 Congestion Mitigation and Air Quality funding.	CMAQ / Local Funds	\$0	\$275,740	\$275,740
11.23.01: Columbus Avenue Bus Lane Phase II	Add Project	This project is being added to the TIP as a carry-forward of 2022 Congestion Mitigation and Air Quality funding.	CMAQ / Local Funds	\$0	\$14,800,000	\$14,800,000
FFY 2024 Transit Program						
12.24.05: MBTA - Bridge and Tunnel Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2024 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$118,152,648	\$112,492,221	-\$5,660,427
12.12.00: MBTA - Revenue Vehicle Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2024 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$160,673,019	\$187,060,208	\$26,387,189
12.63.01: MBTA - Signals/Systems Upgrade Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2024 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$107,117,164	\$93,506,433	-\$13,610,731
12.34.00: MBTA - Stations and Facilities Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2024 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$149,067,600	\$141,951,569	-\$7,116,031
FFY 2025 Transit Program						
12.24.05: MBTA - Bridge and Tunnel Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2025 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$123,222,675	\$112,492,221	-\$10,730,454
12.12.00: MBTA - Revenue Vehicle Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2025 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$165,691,139	\$192,078,328	\$26,387,189
12.63.01: MBTA - Signals/Systems Upgrade Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2025 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$107,117,164	\$93,506,433	-\$13,610,731
12.34.00: MBTA - Stations and Facilities Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2025 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$149,067,600	\$147,021,597	-\$2,046,003
FFY 2026 Transit Program						
12.24.05: MBTA - Bridge and Tunnel Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2026 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$129,654,845	\$112,492,221	-\$17,162,624
12.12.00: MBTA - Revenue Vehicle Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2026 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$171,994,175	\$198,381,364	\$26,387,189
12.63.01: MBTA - Signals/Systems Upgrade Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2026 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$107,117,164	\$93,506,433	-\$13,610,731
12.34.00: MBTA - Stations and Facilities Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2026 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$149,067,600	\$153,453,767	\$4,386,167
FFY 2027 Transit Program						
12.24.05: MBTA - Bridge and Tunnel Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2027 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$135,793,658	\$112,492,221	-\$23,301,437
12.12.00: MBTA - Revenue Vehicle Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2027 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$179,222,302	\$204,508,492	\$25,286,190
12.63.01: MBTA - Signals/Systems Upgrade Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2027 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$107,117,164	\$93,506,433	-\$13,610,731
12.34.00: MBTA - Stations and Facilities Program	Shift Funds	The funding for this line item has been revised to reflect changes to project readiness and anticipated annual spending. The overall funding for FFY 2027 between the Bridge and Tunnel, Revenue Vehicle, Signals/Systems Upgrade, and Stations and Facilities programs remains the same.	FTA Section 5307 / FTA Section 5337 / Local Funds	\$147,966,602	\$159,592,579	\$11,625,977

MBTA Capital Program - Federal Funding
FFY 2023-2027 Transportation Improvement Program (TIP) Amendment One - October 2022

Federal Funding Program	ALI	2023	2024	2025	2026	2027	FFY23-27 Total (Federal)	FFY23-27 Total (Incl. Match)
5307		\$273,866,925	\$193,663,464	\$197,677,960	\$202,720,389	\$207,622,091	\$1,075,550,829	\$1,344,438,536
Bridge & Tunnel Program	12.24.05	\$15,000,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$36,600,000	\$45,750,000
Revenue Vehicle Program	12.12.00	\$123,572,029	\$128,098,955	\$132,113,451	\$137,155,880	\$142,057,582	\$662,997,897	\$828,747,371
Signals/Systems Upgrade Program	12.63.01	\$50,000,000	\$38,597,731	\$38,597,731	\$38,597,731	\$38,597,731	\$204,390,922	\$255,488,653
Stations and Facilities Program	12.34.00	\$85,294,896	\$21,566,779	\$21,566,779	\$21,566,779	\$21,566,779	\$171,562,010	\$214,452,513
5337		\$487,737,021	\$234,344,881	\$238,400,903	\$243,546,639	\$248,457,689	\$1,452,487,134	\$1,815,608,917
Bridge & Tunnel Program	12.24.05	\$96,765,296	\$84,593,777	\$84,593,777	\$84,593,777	\$84,593,777	\$435,140,402	\$543,925,503
Revenue Vehicle Program	12.12.00	\$77,680,000	\$21,549,212	\$21,549,212	\$21,549,212	\$21,549,212	\$163,876,846	\$204,846,058
Signals/Systems Upgrade Program	12.63.01	\$101,796,597	\$36,207,416	\$36,207,416	\$36,207,416	\$36,207,416	\$246,626,262	\$308,282,827
Stations and Facilities Program	12.34.00	\$211,495,128	\$91,994,477	\$96,050,499	\$101,196,235	\$106,107,285	\$606,843,624	\$758,554,530
5339		\$6,016,454	\$6,253,263	\$6,445,503	\$6,686,969	\$6,932,418	\$32,334,607	\$40,418,259
Bus Program	11.14.00	\$6,016,454	\$6,253,263	\$6,445,503	\$6,686,969	\$6,932,418	\$32,334,607	\$40,418,259
FFY23-27 FTA Formula Funding		\$767,620,400	\$434,261,608	\$442,524,367	\$452,953,997	\$463,012,199	\$2,560,372,570	\$3,200,465,712
Other Federal		\$353,492,947	\$163,500,000	\$516,564,667	\$225,085,333	\$125,000,000	\$1,383,642,947	\$1,457,282,570
RRIF Financing - PTC/ATC/Fiber	12.63.01	\$0	\$0	\$369,064,667	\$100,085,333	\$0	\$469,150,000	\$469,150,000
RRIF/TIFIA Financing Program	12.24.05	\$147,500,000	\$147,500,000	\$147,500,000	\$125,000,000	\$125,000,000	\$692,500,000	\$692,500,000
North Wilmington Station - CARS1 (FTA)	12.34.02	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000	\$1,300,000
Quincy Bus Facility Modernization (FTA)	11.43.02	\$5,000,000	\$0	\$0	\$0	\$0	\$5,000,000	\$5,000,000
South Salem Comm. Rail Stop Study (FTA)	12.31.02	\$372,000	\$0	\$0	\$0	\$0	\$372,000	\$465,000
Cheslea & Everett Route Planning (FTA)	11.21.01	\$780,100	\$0	\$0	\$0	\$0	\$780,100	\$780,100
Battery Electric Buses - Low-No (FTA)	11.13.01	\$116,000,000	\$0	\$0	\$0	\$0	\$116,000,000	\$136,470,588
South Elm Street Bridge Haverhill (FRA)	12.24.05	\$7,596,431	\$0	\$0	\$0	\$0	\$7,596,431	\$15,192,862
MBTA Suicide Trespass Prevention (FRA)	12.21.03	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000
Lynnway Multimodal Corridor (RAISE)	11.23.01	\$20,250,000	\$0	\$0	\$0	\$0	\$20,250,000	\$27,000,000
Blue Hill Ave. Corridor Project (RAISE)	11.23.01	\$15,000,000	\$0	\$0	\$0	\$0	\$15,000,000	\$39,456,000
Alewife Wayfinding Impr. (CMAQ)	12.33.09	\$233,824	\$0	\$0	\$0	\$0	\$233,824	\$292,280
MBTA Systemwide Bike Racks (CMAQ)	12.43.41	\$220,592	\$0	\$0	\$0	\$0	\$220,592	\$275,740
Columbus Ave. Bus Lane Ph. II (CMAQ)	11.23.01	\$11,840,000	\$0	\$0	\$0	\$0	\$11,840,000	\$14,800,000
Lynn Station Improvements (STP)	12.34.02	\$27,600,000	\$10,880,000	\$0	\$0	\$0	\$38,480,000	\$48,100,000
Forest Hills Station Improv (STP)	12.34.02	\$0	\$5,120,000	\$0	\$0	\$0	\$5,120,000	\$6,400,000
FFY23-27 Total Federal Funding		\$1,121,113,347	\$597,761,608	\$959,089,034	\$678,039,330	\$588,012,199	\$3,944,015,517	\$4,657,748,282

Note:

FTA formula funds (5307, 5337 and 5339) are based on estimated apportionments for FFY23-27. FFY23 includes carryforward funds.

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.

RRIF loan funding for the PTC/ATC/Fiber Resiliency project is based on the currently 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.

FFY23-27 TIP Amendment One - October 2022
Summary of MBTA Changes by FFY and TIP Program (Federal Funds)

Federal Funding Program	ALI	2023	2024	2025	2026	2027	FFY23-27 Total (Federal)	FFY23-27 Total (Incl. Match)
5307		\$85,148,653	(\$0)	(\$0)	(\$0)	(\$0)	\$85,148,652	\$106,435,815
Bridge & Tunnel Program	12.24.05	\$15,000,000	(\$4,600,000)	(\$4,600,000)	(\$4,600,000)	(\$4,600,000)	(\$3,400,000)	(\$4,250,000)
Revenue Vehicle Program	12.12.00	\$34,959,474	\$21,437,056	\$21,437,056	\$21,437,056	\$21,437,056	\$120,707,699	\$150,884,624
Signals/Systems Upgrade Program	12.63.01	\$43,929,595	(\$10,982,399)	(\$10,982,399)	(\$10,982,399)	(\$10,982,399)	(\$1)	(\$1)
Stations and Facilities Program	12.34.00	(\$8,740,416)	(\$5,854,658)	(\$5,854,658)	(\$5,854,658)	(\$5,854,658)	(\$32,159,046)	(\$40,198,808)
5337		\$258,447,531	\$0	\$0	\$0	\$0	\$258,447,531	\$323,059,414
Bridge & Tunnel Program	12.24.05	\$79,501,606	\$71,658	(\$3,984,364)	(\$9,130,100)	(\$14,041,150)	\$52,417,651	\$65,522,064
Revenue Vehicle Program	12.12.00	(\$26,224,747)	(\$327,305)	(\$327,305)	(\$327,305)	(\$1,208,104)	(\$28,414,767)	(\$35,518,458)
Signals/Systems Upgrade Program	12.63.01	\$74,050,316	\$93,814	\$93,814	\$93,814	\$93,814	\$74,425,572	\$93,031,965
Stations and Facilities Program	12.34.00	\$131,120,356	\$161,833	\$4,217,855	\$9,363,591	\$15,155,440	\$160,019,074	\$200,023,843
5339		\$0	(\$0)	\$0	(\$0)	\$0	(\$0)	(\$0)
Bus Program	11.14.00	\$0	(\$0)	\$0	(\$0)	\$0	(\$0)	(\$0)
FFY23-27 FTA Formula Funding		\$343,596,184	(\$0)	\$0	(\$0)	(\$0)	\$343,596,183	\$429,495,229
Other Federal		\$178,392,947	\$0	\$0	\$0	\$0	\$178,392,947	\$241,132,570
RRIF Financing - PTC/ATC/Fiber	12.63.01	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RRIF/TIFIA Financing Program	12.24.05	\$0	\$0	\$0	\$0	\$0	\$0	\$0
North Wilmington Station - CARSI (FTA)	12.34.02	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000	\$1,300,000
Quincy Bus Facility Modernization (FTA)	11.43.02	\$5,000,000	\$0	\$0	\$0	\$0	\$5,000,000	\$5,000,000
South Salem Comm. Rail Stop Study (FTA)	12.31.02	\$372,000	\$0	\$0	\$0	\$0	\$372,000	\$465,000
Chesea & Everett Route Planning (FTA)	11.21.01	\$780,100	\$0	\$0	\$0	\$0	\$780,100	\$780,100
Battery Electric Buses - Low-No (FTA)	11.13.01	\$116,000,000	\$0	\$0	\$0	\$0	\$116,000,000	\$136,470,588
South Elm Street Bridge Haverhill (FRA)	12.24.05	\$7,596,431	\$0	\$0	\$0	\$0	\$7,596,431	\$15,192,862
MBTA Suicide Trespass Prevention (FRA)	12.21.03	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000
Lynnway Multimodal Corridor (RAISE)	11.23.01	\$20,250,000	\$0	\$0	\$0	\$0	\$20,250,000	\$27,000,000
Blue Hill Ave. Corridor Project (RAISE)	11.23.01	\$15,000,000	\$0	\$0	\$0	\$0	\$15,000,000	\$39,456,000
Alewife Wayfinding Impr. (CMAQ)	12.33.09	\$233,824	\$0	\$0	\$0	\$0	\$233,824	\$292,280
MBTA Systemwide Bike Racks (CMAQ)	12.43.41	\$220,592	\$0	\$0	\$0	\$0	\$220,592	\$275,740
Columbus Ave. Bus Lane Ph. II (CMAQ)	11.23.01	\$11,840,000	\$0	\$0	\$0	\$0	\$11,840,000	\$14,800,000
Lynn Station Improvements (STP)	12.34.02	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Forest Hills Station Improv (STP)	12.34.02	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FFY23-27 Total Federal Funding		\$521,989,131	(\$0)	\$0	(\$0)	(\$0)	\$521,989,130	\$670,627,800

Explanations for TIP Funding Adjustments:

This table compares the proposed FFY23-27 TIP Amendment to the most recent FFY23-27 TIP that was presented to the MPO in April 2022.

FTA Formula Funding - FFY23 funding has been increased to include carryover funds not obligated in FFY22; there is no overall change in formula funding assumed for FFY24-27. Annual changes at the TIP Program level reflect currently anticipated project readiness and projected FFY23-27 spending, as well as some project shifts between 5307/ 5337/ 5339 funding since April 2022. In addition, some projects have moved from FTA formula funding to discretionary funding based on recent awards (e.g., Battery Electric Buses, South Elm Street Bridge).

Other Federal Funding - The FFY23 changes are for two reasons. (1) For a number of projects, funds not obligated in FFY22 are now being carried forward into FFY23 (e.g., North Wilmington Station, Quincy Bus Facility, Blue Hill Ave. Corridor, Alewife Wayfinding, Bike Racks, Columbus Ave. Bus Lane). (2) There were also several new discretionary awards since April 2022 that are being added to the TIP (e.g., South Salem CR Stop, Chelsea & Everett Route Planning, Battery Electric Buses, South Elm Street Bridge, MBTA Suicide Trespass Prevention, Lynnway Multimodal Corridor).

MBTA Federal Capital Program
FFY 2023-2027 TIP Amendment One - Project List and Descriptions (80% Federal Share)

Funds	TIP Program	CIP ID#	Project Name	FFY 2023-2027	Project Description
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FTA Formula Funds (5307, 5337, 5339)

5307 - Bridge and Tunnel

5307	Bridge and Tunnel	P0912	Systemwide Tunnel Flood Mitigation Program	\$36,600,000	Planning, training, and infrastructure improvements to make the tunnel network more resilient to flooding exposures due to storm surge, precipitation, and sea level rise.
				\$36,600,000	

5307 - Revenue Vehicles

5307	Revenue Vehicles	P0369	Green Line Type 10 Vehicle Replacement Program	\$409,175,956	Procurement of 102 new fully-accessible light rail vehicle (LRV) fleet and related infrastructure improvements to replace the existing Type 7 and Type 8 fleets and support increased system capacity.
5307	Revenue Vehicles	P0618	Procurement of 40ft Enhanced Electric Hybrid Buses	\$117,559,030	Procurement of 460 40ft Enhanced Electric Hybrid (EEH) buses to replace 310 40ft diesel buses purchased in 2006-2008 and support more reliable, efficient, and sustainable operations. Includes vehicle testing, warranty, and inspection.
5307	Revenue Vehicles	P0649	Option Order Procurement of New Flyer Hybrid 40ft Buses	\$6,895,142	Procurement of 194 40ft buses with hybrid propulsion to replace an aging fleet and improve fuel economy.
5307	Revenue Vehicles	P0652	Procurement of 100 Bi-Level Commuter Rail Coaches	\$35,076,265	Procurement of 100 Bi-Level Commuter Rail coaches to replace aging single-level coaches, expand capacity from 120 to 180 passengers per coach, reduce number of coaches required, and mitigate operational bottlenecks.
5307	Revenue Vehicles	P0911	Hybrid and CNG Bus Overhaul	\$20,800,000	Midlife overhaul of major systems and components of 156 40ft hybrid buses, 175 40ft CNG buses, and 45 60ft hybrid buses to ensure reliable and safe operations that meet FTA requirements.
5307	Revenue Vehicles	P0918	Future Rolling Stock Fleet	\$40,000,000	Planning funds to support future procurement of 25 electrified or multi-mode Commuter Rail rolling stock to replace the oldest vehicles in the fleet.
5307	Revenue Vehicles	P1016	Mattapan Trolley Select System Upgrade	\$2,771,505	Overhaul of the 75+ year old PCC cars operating on the Mattapan Line to improve reliability of the fleet. Includes work on the propulsion system, trucks, auxiliary electrical power system, wiring, lighting, doors, car body, and paint.
5307	Revenue Vehicles	P1151	Blue Line Vehicle Mid-Life Overhaul	\$800,000	Planning for the midlife overhaul of 94 Blue Line heavy rail vehicles built by Siemens. The project will address systems at or nearing the end of their intended service lives, obsolete components and functional improvements.
5307	Revenue Vehicles	P1154	CNG Bus Overhaul (New Flyer XN40 - SR1982)	\$800,000	Planning for the midlife overhaul of 175 forty-foot New Flyer CNG buses delivered in 2016-2017. These buses require overhaul of major systems and components to ensure continued reliable and safe operations and to meet FTA service life requirements.
5307	Revenue Vehicles	P1155	Hybrid Bus Overhaul (New Flyer XDE40 - SR 2011)	\$800,000	Planning for the midlife overhaul of 44 sixty-foot New Flyer hybrid buses delivered in 2016-2017. These buses require overhaul of major systems and components to ensure continued reliable and safe operations and to meet FTA service life requirements.
5307	Revenue Vehicles	P1162	Reliability Centered Maintenance - Blue, Orange and Red Line	\$28,320,000	Improvements to trucks, brakes, motors, current collectors, propulsion and auxiliary fuses on the Blue Line and improvements to propulsion, brakes, HVAC, and doors on the Red and Orange Lines.
				\$662,997,897	

5307 - Signals and Systems

5307	Signals and Systems	P0285	Signal Program - Red/Orange Line	\$112,762,427	Replacement and upgrade of signal equipment on the Red and Orange Lines. Includes renewal of track circuit modules using latest digital audio frequency technology and replacement of wayside equipment on the Orange Line south of Haymarket.
5307	Signals and Systems	P0857	Mattapan HSL Transformation	\$91,628,495	State of good repair and accessibility improvements, power upgrades, and other infrastructure investments on the Mattapan Line.
				\$204,390,922	

5307 - Stations and Facilities

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Funds	TIP Program	CIP ID#	Project Name	FFY 2023-2027	Project Description
5307	Stations and Facilities	P0075	Elevator Program Multiple Location Design	\$43,778,268	Design and some construction work for the replacement of elevators and/or addition of new, redundant elevators and related wayfinding amenities at transit stations.
5307	Stations and Facilities	P0078	Hingham Ferry Dock Modification	\$6,239,134	Replacement of existing floating dock, access gangway, canopy, and walkways; extension of canopy structure to the Hingham Intermodal Center; and upgraded lighting, safety, and security systems.
5307	Stations and Facilities	P0165	Harvard Square Busway Repairs	\$993,026	Rehabilitation of roadway, lighting, signage, drainage, and catenary systems in the Harvard busway and accessibility upgrades to ensure near level boarding for the 71 and 73 buses.
5307	Stations and Facilities	P0671a	Quincy Bus Facility Modernization	\$60,231,581	Relocation and replacement of the Quincy bus maintenance facility. The new, modernized facility will expand capacity and include the infrastructure necessary to support the MBTA's first battery-electric bus fleet (BEBs).
5307	Stations and Facilities	P0671b	Arborway Bus Facility - Design Funding	\$28,800,000	Design funding to support the construction of a new Arborway bus facility to accommodate battery electric bus (BEB) infrastructure.
5307	Stations and Facilities	P0671c	North Cambridge Bus Facility Retrofits	\$20,000,000	Renovation of North Cambridge facility to support conversion to battery electric bus (BEB) fleets.
5307	Stations and Facilities	P1113	Bus Priority Project Construction	\$9,120,001	Funding to support construction of bus priority infrastructure. This may include side or center-running bus lanes, transit signal priority, pavement markings, and stop upgrades.
5307	Stations and Facilities	P1159	Everett Test Equipment Upgrades	\$2,400,000	Addition of 2 AC traction motor test cells, 2 tread brake unit test benches, 1 air compressor test unit, and a thermal chamber at the Everett Main Repair Facility.
				\$171,562,010	

5337 - Bridge and Tunnel

5337	Bridge and Tunnel	P0006	Gloucester Drawbridge Replacement	\$12,402,982	Replacement of Gloucester Drawbridge on the Rockport Line. The new bridge will consist of a moveable bascule span with two independent barrels, two spans of precast concrete box beams, a new steel superstructure, and a new micro-pile abutment.
5337	Bridge and Tunnel	P0008	Emergency Bridge Design / Inspection & Rating	\$2,253,902	Funding to support emergency design, inspection, and rating of bridges as needed.
5337	Bridge and Tunnel	P0009	Bridges - Design	\$10,598,672	Design funding to support the repair, rehabilitation, and replacement of bridges across the system.
5337	Bridge and Tunnel	P0018	North Station Draw 1 Bridge Replacement	\$165,152,596	Replacement of North Station Draw 1 bridge structure and control tower. Includes expansion of bridge capacity from 4 to 6 tracks, expansion of station platform capacity from 10 to 12 tracks, and a pedestrian path across the Charles River.
5337	Bridge and Tunnel	P0037	Emergency Bridge Repair	\$5,014,180	Funding to support emergency bridge repairs on an on-call basis.
5337	Bridge and Tunnel	P0182	Tunnel Rehabilitation	\$1,062,973	Construction and professional services relating to tunnel repair and inspection.
5337	Bridge and Tunnel	P0495	Bridge Bundling Contract	\$11,200,000	Replacement of six commuter rail bridges at Intervale Rd. in Weston; Bacon St. in Wellesley; High Line Bridge in Somerville; Lynn Fells Parkway in Melrose; Parker St. in Lawrence; and Commercial St. in Lynn.
5337	Bridge and Tunnel	P0551	Longfellow Approach	\$133,033,993	Rehabilitation of Longfellow Approach viaduct, Span 1 of the Longfellow Bridge, and station platforms at Charles/MGH Station. Includes new track, power, communication and signal systems, and additional emergency egress and redundant elevators.
5337	Bridge and Tunnel	P0627	Systemwide Bridge Inspection and Rating	\$29,330,516	Program to support in-depth inspection and load rating of MBTA-owned bridges at regular intervals. Load ratings are used to establish a systemwide priority list of bridge repairs, rehabilitation, and replacement.
5337	Bridge and Tunnel	P0892	Saugus Drawbridge Replacement	\$8,000,000	Design of Saugus Drawbridge replacement on the Newburyport/Rockport Line. The new bridge would include a widened approach embankment, a new control house, signal upgrades, and relocation of submerged utilities.
5337	Bridge and Tunnel	P0907	East Street Bridge Replacement (Dedham)	\$14,400,000	Replacement of East Street bridge carrying the Franklin Line in Dedham. The new bridge will feature improved vertical and horizontal clearance, improved roadway features, and improved pedestrian and vehicle access to East Street.
5337	Bridge and Tunnel	P1107	Bridge Program Pipeline - Rehabilitation, Repair and Replacement	\$16,000,000	This program uses information provided through the bridge inspection and load rating program to design and construct prioritized bridge rehabilitation, repair, or replacement projects.

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Funds	TIP Program	CIP ID#	Project Name	FFY 2023-2027	Project Description
5337	Bridge and Tunnel	P1115	South Elm Street Bridge Replacement	\$1,800,000	Replacement of South Elm Street bridge on the Haverhill Line serving Commuter Rail, Downeaster, and Pan Am freight trains (costs not funded by FRA discretionary grant.)
5337	Bridge and Tunnel	P1116	Systemwide Culvert Inspection and Load Rating	\$10,000,000	Inventory, inspection, and load rating of the MBTA's approximately 1,300 culverts supporting in-service structures systemwide. The scope of work includes an initial inspection to establish baseline condition, followed by inspection every five years.
5337	Bridge and Tunnel	R0074	Tunnel Inspection Systemwide	\$14,890,589	Ongoing inspection and rating of Red Line, Orange Line, Green Line, and Blue Line tunnels.

\$435,140,402

5337 - Revenue Vehicles

5337	Revenue Vehicles	P0239	F40 Commuter Rail Locomotive Overhaul	\$33,670,671	Overhaul of 37 F40 Commuter Rail locomotives to improve reliability and reduce risk of unplanned maintenance.
5337	Revenue Vehicles	P0370	Green Line Train Protection	\$73,406,175	Procurement and installation of on-board and wayside equipment for a train protection and information system on the Green Line to mitigate red signal violations, train-to-train collisions, derailments, and intrusions into work zones.
5337	Revenue Vehicles	P0927	Rolling Stock - Locomotive and Coach State of Good Repair and Resiliency	\$56,800,000	Upgrades to improve system reliability, correct deficiencies, standardize procedures, and increase equipment availability for Commuter Rail rolling stock. Includes vehicle procurement, testing support, service life enhancement, and overhauls.

\$163,876,846

5337 - Signals and Systems

5337	Signals and Systems	P0146	SCADA Upgrades	\$1,600,000	Upgrades to the Power Supervisory Control and Data Acquisition (SCADA) communication network from leased lines to the Security Wide Area Network (SWAN) to provide high-speed ethernet connection at traction power substations and unit substations.
5337	Signals and Systems	P0261	Worcester Line Track and Station Accessibility Improvements	\$25,885,742	New third track and realignment of existing tracks on the Framingham and Worcester Commuter Rail lines between Weston and Framingham. Includes upgrades to Wellesley Farms, Wellesley Hills, Wellesley Square, and West Natick Stations.
5337	Signals and Systems	P0283	Green Line Central Tunnel Signal - 25 Cycle	\$4,000,000	Replacement of 25Hz track circuits with 100Hz track circuits in the Green Line central tunnel. Includes replacement of track circuit cable, trough, messenger, cases, relays, rectifiers, and signal power equipment.
5337	Signals and Systems	P0301	Systemwide Radio	\$60,333,510	Upgrade of the MBTA's existing two-way radio system used by MBTA Transit Police and operations personnel. This project includes mobile radios for heavy rail, light rail, and bus vehicles.
5337	Signals and Systems	P0591	Green Line Central Tunnel Track and Signal Replacement	\$96,000,000	Rehabilitation and upgrades to signal and track infrastructure within the Green Line Central Tunnel. Includes central instrumentation houses and signal, track, and power systems at Copley, Park Street, and Government Center.
5337	Signals and Systems	P0675	Orange Line Southwest Corridor Track Replacement	\$12,500,806	Reconstruction of track and support systems on the Southwest Corridor of the Orange Line between Chinatown and Forest Hills Stations.
5337	Signals and Systems	P0705	Power Systems Resiliency Program	\$3,348,562	Replacement of damaged power cable duct banks that energize areas of the Red, Orange, Blue, and Green Line. Includes excavation, demolition, conduit replacement, manhole replacement, surface restoration, and power cable installation.
5337	Signals and Systems	P0904	Systemwide Asset Management Program Phase 3	\$7,600,000	Implementation of the Asset Management Program in accordance with FTA requirements. Includes professional services, audit, inventory, condition assessments, updates to the National Transit Database (NTD), and Transit Asset Management Plan (TAMP).
5337	Signals and Systems	P1104	Traction Power Substation Upgrades	\$5,760,000	Complete replacement of electrical systems and structural, mechanical, and plumbing improvements at nine aging traction power substations (TPSS). This scope also includes a TPSS Design Guide to standardize future improvements.
5337	Signals and Systems	P1114	South Boston to Forest Hills Duct Bank Replacement	\$12,946,281	Replacement of duct banks and cables which carry AC power from the South Boston power complex to Forest Hills.

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Funds	TIP Program	CIP ID#	Project Name	FFY 2023-2027	Project Description
5337	Signals and Systems	P1132	Ashmont Branch Track Replacement	\$4,000,000	Design and construction for partial reconstruction of track and track support systems on the Ashmont Branch of the Red Line. This is part of a series of Red Line track replacement projects.
5337	Signals and Systems	P1133	Braintree Line Track Replacement	\$1,200,000	Design and construction for partial reconstruction of track and track support systems on the Braintree Branch of the Red Line. This is part of a series of Red Line track replacement projects.
5337	Signals and Systems	P1139	Systemwide Asset Management Program Phase 4	\$9,600,000	Implementation of the Asset Management Program in accordance with FTA requirements. Includes professional services; audit, inventory, condition assessments, updates to the National Transit Database (NTD), and Transit Asset Management Plan (TAMP).
5337	Signals and Systems	P1149	Unit Substation Replacement Project	\$1,851,360	Development of unit substation (USS) Design Guide and replacement of existing power and electrical equipment at unit substation locations (USS), including AC feeder disconnect switches.
				\$246,626,262	

5337 - Stations and Facilities

5337	Stations and Facilities	P0003	Green Line B Branch Consolidation	\$1,570,079	Consolidation of four Green Line B-Branch stops into two new, fully accessible stations: Babcock Street and Amory Street. Features include accessible boarding and exits, security and lighting upgrades, and longer platforms to accommodate Type 10s.
5337	Stations and Facilities	P0066	Elevator Program	\$1,597,474	This program funds design and construction for elevator improvements on the rapid transit system. Individual elevator projects are separated into child projects once they reach the construction stage.
5337	Stations and Facilities	P0066a	Quincy Adams Accessibility Improvements	\$126,634	Replacement of 3 existing elevators and addition of a new elevator at Quincy Adams in order to meet ADA and BCIL requirements. This project also includes upgrades to mechanical, communication and safety systems, and wayfinding signage.
5337	Stations and Facilities	P0074	Downtown Crossing Vertical Transportation Improvements Phase 2	\$62,208,880	Design and construction of 3 new elevators to provide vertical transfers from the Red Line northbound to the Orange Line southbound platform, and from the Orange Line northbound to the Red Line southbound platform at Downtown Crossing.
5337	Stations and Facilities	P0076	Oak Grove Station Vertical Transportation Improvements	\$800,000	Accessibility upgrades at Oak Grove station including 3 new elevators, replacement of one existing elevator, sidewalk repairs, and wayfinding and station brightening improvements.
5337	Stations and Facilities	P0078	Hingham Ferry Dock Modification	\$400,000	Replacement of existing floating dock, access gangway, canopy, and walkways; extension of canopy structure to the Hingham Intermodal Center; and upgraded lighting, safety, and security systems.
5337	Stations and Facilities	P0087	Braintree and Quincy Adams Garage Rehabilitation	\$3,396,000	Repairs to existing Braintree and Quincy Adams station garages. Includes upgrades to mechanical, electrical, plumbing, life safety systems, wayfinding, traffic circulation and parking layout. Also includes two new elevators at the Braintree garage.
5337	Stations and Facilities	P0129	Newton Highlands Green Line Station Accessibility Project	\$25,642,762	Accessibility improvements at Newton Highlands on the Green Line D Branch. Includes 3 ramps with canopies, 2 staggered 4-car 300' raised platforms, 2 at-grade pedestrian crossings, site lighting, heated platform shelters, and covered bike racks.
5337	Stations and Facilities	P0163	Forest Hills Improvement Project	\$26,089,763	Accessibility and state of good repair improvements at Forest Hills Station. Includes elevator replacement, new elevator/stair tower to connect upper and lower busway, accessibility upgrades, station brightening, wayfinding, and platform repairs.
5337	Stations and Facilities	P0168	Symphony Station Improvements	\$35,665,778	Upgrade Symphony Station to a modern and fully accessible passenger facility. Includes construction of four new elevators, raised platforms, accessible restrooms, installation of egress stairs, and upgraded fire alarm systems.
5337	Stations and Facilities	P0169	Wollaston Station / Quincy Center Garage Demolition	\$4,807,477	Complete modernization of Wollaston Station, demolition of the top 3 levels of the Quincy Center parking garage, replacement of one elevator at Quincy Center, and construction of an accessible walkway to Quincy Center.
5337	Stations and Facilities	P0174	Natick Center Station Accessibility Project	\$4,691,266	Improvements to make Natick Center Station fully accessible and connected to the new Cochituate Rail Trail. Includes new stairs, ramps, elevator access, bike shelters, lights, cameras, wayfinding, PTC/ATC upgrades, and streetscape improvements.
5337	Stations and Facilities	P0179	Winchester Center Station	\$5,145,827	Renovation of Winchester Station on the Lowell Line to provide code compliant new level-boarding height, fiber resin platforms, lighting system, accessibility ramps, elevators, walkways, variable message signs, public address system and CCTV.

MBTA Federal Capital Program
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Funds	TIP Program	CIP ID#	Project Name	FFY 2023-2027	Project Description
5337	Stations and Facilities	P0395	Worcester Union Station Accessibility and Infrastructure Improvements	\$6,000,610	Includes high-level center platform with elevators, ramps, and stairs, replacement and realignment of station tracks, and construction of a new rail crossover to improve accessibility, operations, and service capacity at Worcester Union Station.
5337	Stations and Facilities	P0496	Silver Line Gateway - Phase 2	\$366,663	Construction of new Chelsea Commuter Rail station with a direct connection to the Silver Line. Includes new platforms, canopies, foundation systems, signage, track infrastructure, train signals, power cable duct banks, and BRT grade crossings.
5337	Stations and Facilities	P0631b	Blue Line Communications Room SGR Improvements	\$16,374,166	Rehabilitation of communication rooms along the Blue Line to bring them into a state of good repair.
5337	Stations and Facilities	P0679	Codman Yard Expansion and Improvements	\$48,118,356	Improvements to Codman Yard including in-kind replacement of existing infrastructure and expansion of storage capacity to support the new Red Line fleet.
5337	Stations and Facilities	P0856	Ruggles Station Improvements Phase 2	\$79,545,355	Continuation of improvements under P0175 focused on travel paths, alternate egress of Orange Line subway and Commuter Rail platforms, accessible restrooms, public address systems, electrical and fire protection upgrades, and roof replacement.
5337	Stations and Facilities	P0923	E Branch Accessibility & Capacity Improvements	\$44,000,000	Improvements to surface track and stations on the E-Branch of the Green Line, extending from the Northeastern Station portal to Heath Street Station.
5337	Stations and Facilities	P0924	B Branch Accessibility & Capacity Improvements	\$79,649,691	Track realignments, accessibility improvements, potential consolidation, and station and traction power upgrades along the Green Line B Branch, between Blandford St and Warren St stations.
5337	Stations and Facilities	P1010	Riverside Vehicle Maintenance Facility Modifications & Upgrades	\$39,480,004	Upgrades to existing hoists, pits, and mezzanines at the Riverside Vehicle Maintenance Facility to accommodate the future Type 10 fleet.
5337	Stations and Facilities	P1011	Green Line Extension Vehicle Maintenance Facility Modifications & Upgrades	\$9,943,730	Design and installation of a new hoist at the Green Line Extension (GLX) Vehicle Maintenance Facility to accommodate the future Type 10 fleet.
5337	Stations and Facilities	P1101	Lake Street Complex Demolition and Reconfiguration	\$23,446,916	Demolition of the Lake Street facility and reconfiguration into an expanded yard. The site will be designed to maximize train storage, streamline yard operations, and eliminate a sharp curve in anticipation of the larger Type 10 light rail fleet.
5337	Stations and Facilities	P1103	Reservoir Yard and Non-Revenue Track Optimization and Reconfiguration	\$11,590,284	Reconfiguration of various track elements at Reservoir including: the lower west yard, East/West Wye, Chestnut Hill Avenue connection, B-Branch connection, and non-revenue track around Cleveland Circle.
5337	Stations and Facilities	P1144	Commuter Rail Facilities State of Good Repair	\$62,960,000	Funding to support Commuter Rail facilities improvements including design support contracts, roof and roof equipment replacement, WiFi and IT infrastructure, fluid systems, and maintenance of way facilities.
5337	Stations and Facilities	R0071	Lynn Station and Parking Garage Improvements Phase II	\$13,225,910	Design funding for new elevators, stairs, platform, canopy, and architectural improvements to the station and the intent to acquire and demolish structures under station's viaduct. Existing parking garage will also be replaced by surface parking.
				\$606,843,624	

5339 - Bus and Bus Facility

5339	Bus and Bus Facilities	P0618	Procurement of 40ft Enhanced Electric Hybrid Buses	\$32,334,607	Procurement of 460 40ft Enhanced Electric Hybrid (EEH) buses to replace 310 40ft diesel buses purchased in 2006-2008 and support more reliable, efficient, and sustainable operations. Includes vehicle testing, warranty, and inspection. (5339 portion only.)
				\$32,334,607	

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

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Funds	TIP Program	CIP ID#	Project Name	FFY 2023-2027	Project Description
RRIF/TIFIA Financing		P0671a	Bus Facility Modernization Program - Quincy Bus Facility	Potential Loan Amount TBD	Relocation and replacement of the Quincy bus maintenance facility. The new, modernized facility will expand capacity and include the infrastructure necessary to support the MBTA's first battery-electric bus fleet (BEBs).
RRIF/TIFIA Financing		P0952	Future Regional Rail Layover Planning	Potential Loan Amount TBD	Planning, design, environmental and real estate due diligence, and construction work for a new Commuter Rail layover facility. Includes operational and space needs assessment, design alternatives, and property prospection.
RRIF/TIFIA Financing		P0018	North Station Draw 1 Bridge Replacement	Potential Loan Amount TBD	Replacement of North Station Draw 1 bridge structure and control tower. Includes expansion of bridge capacity from 4 to 6 tracks, expansion of station platform capacity from 10 to 12 tracks, and a pedestrian path across the Charles River.
RRIF/TIFIA Financing		P0170	Newton Commuter Rail Stations	Potential Loan Amount TBD	Design of double-side, high level, fully accessible platforms at Auburndale, West Newton, and Newtonville Stations. Additional improvements include bike shelters, pick-up/drop-off locations, accessible parking, and connection to The Ride.
RRIF/TIFIA Financing		P0178	South Attleboro Station Improvements	Potential Loan Amount TBD	Design for the construction of a new South Attleboro Station to include 800-foot high-level platforms, 3 elevators, platform access ramps, a bus bay, egress to Newport Avenue, additional parking, improved vehicular circulation, and updated lighting.
RRIF/TIFIA Financing		P0863	South-Side Commuter Rail Maintenance Facility	Potential Loan Amount TBD	Assessment and design for a new Commuter Rail maintenance and layover facility at Readville. Includes design for future construction of multiple maintenance bays within Yard 1 and Upper Yard 2.

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. The MBTA may also opt to fund a project from FTA formula funds or another source, depending on project timing and funding availability.