

2016 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
► Non-CMAQ/HSIP/TAP (Other)								
	29492	BEDFORD- BILLERICA- BURLINGTON- MIDDLESEX TURNPIKE IMPROVEMENTS, FROM CROSBY DRIVE NORTH TO MANNING ROAD, INCLUDES RECONSTRUCTION OF B-04-006 (PHASE III)	4	STP	\$ 21,691,442	\$ 17,353,154	\$ 4,338,288	AC Yr 1 of 2; STP+Northern Middlesex Council of Governments contribution (\$1,000,000) Total Cost = \$29,296,348
	601630	WEYMOUTH- ABINGTON- RECONSTRUCTION & WIDENING ON ROUTE 18 (MAIN STREET) FROM HIGHLAND PLACE TO ROUTE 139 (4.0 MILES) INCLUDES REPLACING W-32-013, ROUTE 18 OVER THE OLD COLONY RAILROAD (MBTA)	6	STP	\$ 3,800,000	\$ 3,040,000	\$ 760,000	AC Yr 1 of 4; STP+HSIP+TEA-21 Earmark (MA1236) Total Cost = \$60,053,518
	606117	BOSTON - TRAFFIC SIGNAL IMPROVEMENTS AT 10 LOCATIONS	6	STP	\$ 3,654,920	\$ 2,923,936	\$ 730,984	CMAQ+STP Total Cost = \$4,654,920
AMENDMENT:Decrease Cost	603711	NEEDHAM- WELLESLEY- REHAB/REPLACEMENT OF 6 BRIDGES ON I-95/ROUTE 128: N-04-020, N-04-021, N-04-022, N-04-026, N-04-027, N-04-037 & W-13-023 (ADD-A-LANE - CONTRACT V)	6	NHPP	\$ 24,197,023	\$ 19,357,618	\$ 4,839,405	cost decrease of \$5,429,110; AC Yr 3 of 5; NHPP+BR+Statewide Infrastructure Total Cost = \$164,919,140 (\$50,725,206 programmed within FFYs 2016-20 TIP)
Non-CMAQ/HSIP/TAP (Other) Subtotal ►					\$ 53,343,385	\$ 42,674,708	\$ 10,668,677	◀ 80% Federal + 20% Non-Federal

► Section 1A / Fiscal Constraint Analysis

Total Federal Aid Target Funds Programmed ►	\$ 75,009,821	\$ 75,009,821	◀ Total Target	\$ (0)	Funds Over Programmed
Total Non-CMAQ/HSIP/TAP (Other) Programmed ►	\$ 53,343,385	\$ 52,188,453	◀ Max. Non-CMAQ/HSIP/TAP	\$ (1,154,932)	Non-CMAQ/HSIP/TAP (Other) Exceeds Maximum
Total HSIP Programmed ►	\$ 3,600,000	\$ 4,296,710	◀ Min. HSIP	\$ 696,710	HSIP Minimum Not Met
Total CMAQ Programmed ►	\$ 15,466,436	\$ 13,427,220	◀ Min. CMAQ	\$ (2,039,216)	CMAQ Minimum Met
Total TAP Programmed ►	\$ 2,600,000	\$ 5,097,438	◀ Min. TAP	\$ 2,497,438	TAP Minimum Not Met

Remaining HSIP, CMAQ, and TAP Funds \$ 1,154,932

► Section 1B / Federal Aid Bridge Projects

► Statewide Bridge Maintenance Program

	No Projects Programmed	\$ -	\$ -	\$ -	
Statewide Bridge Maintenance Program Subtotal ►		\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

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► On System

	603008	WOBURN- BRIDGE REPLACEMENT, W-43-003, SALEM STREET OVER MBTA	4	NHPP	\$ 7,089,200	\$ 5,671,360	\$ 1,417,840	
	607685	BRAINTREE- BRIDGE REHABILITATION, B-21-060 AND B-21-061, ST 3 (SB) AND ST 3 (nb) OVER RAMP C (QUINCY ADAMS)	6	NHPP	\$ 11,908,000	\$ 9,526,400	\$ 2,381,600	
	606553	HANOVER- NORWELL- SUPERSTRUCTURE REPLACEMENT, H-06-010, ST 3 OVER ST 123 (WEBSTER STREET) & N-24-003, ST 3 OVER ST 123 (HIGH STREET)	6	NHPP	\$ 29,000,000	\$ 23,200,000	\$ 5,800,000	AC Yr 1 of 2: Total Cost = \$41,955,600
	600867	BOSTON- BRIDGE REHABILITATION, B-16-237, MASSACHUSETTS AVENUE (ROUTE 2A) OVER COMMONWEALTH AVENUE	6	NHPP	\$ 9,074,000	\$ 7,259,200	\$ 1,814,800	AC Yr 1 of 2: Total Cost = \$16,183,795
	600703	LEXINGTON- BRIDGE REPLACEMENT, L-10-009, ROUTE 2 (EB & WB) OVER ROUTE I-95 (ROUTE 128)	4	NHPP	\$ 5,108,000	\$ 4,086,400	\$ 1,021,600	AC Yr 4 of 4: Total Cost = \$36,794,555
On System Subtotal ►					\$ 62,179,200	\$ 49,743,360	\$ 12,435,840	◀ 80% Federal + 20% Non-Federal

► Off-System

	607345	COHASSET- SUPERSTRUCTURE REPLACEMENT & SUBSTRUCTURE REHABILITATION, C-17-002, ATLANTIC AVENUE OVER LITTLE HARBOR INLET	5	STP-BR-OFF	\$ 4,336,600	\$ 3,469,280	\$ 867,320	
Off-System Subtotal ►					\$ 4,336,600	\$ 3,469,280	\$ 867,320	◀ 80% Federal + 20% Non-Federal

► Statewide Bridge Inspection Program

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Bridge Inspection Program Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Section 1C / Federal Aid Non-Target Projects

► Other Federal Aid

	601630	WEYMOUTH- ABINGTON- RECONSTRUCTION & WIDENING ON ROUTE 18 (MAIN STREET) FROM HIGHLAND PLACE TO ROUTE 139 (4.0 MILES) INCLUDES REPLACING W-32-013, ROUTE 18 OVER THE OLD COLONY RAILROAD (MBTA)	6	HPP (1998)	\$ 8,600,000	\$ 6,880,000	\$ 1,720,000	AC Yr 1 of 4; STP+HSIP+TEA-21 Earmark (MA1236) Total Cost = \$60,053,518
Other Federal Aid Subtotal ►					\$ 8,600,000	\$ 6,880,000	\$ 1,720,000	◀ Funding Split Varies by Funding Source

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► Section 1D / Federal Aid Major & State Category Projects

► Statewide Infrastructure Program

	603917	MEDFORD- STONEHAM- WOBURN- READING- HIGHWAY LIGHTING REHABILITATION ON I-93 (PHASE II)	4	STP	\$ 15,000,000	\$ 12,000,000	\$ 3,000,000	AC Year 1 of 2; Total Cost = \$17,500,000
	605733	DISTRICT 6- HIGHWAY LIGHTING SYSTEM REPLACEMENT ON I-93, FROM SOUTHAMPTON STREET TO NEPONSET AVENUE IN BOSTON	6	STP	\$ 2,500,000	\$ 2,000,000	\$ 500,000	AC Year 1 of 3; Total Cost = \$8,250,000
Statewide Infrastructure Program Subtotal ►					\$ 17,500,000	\$ 14,000,000	\$ 3,500,000	◀ 80% Federal + 20% Non-Federal

► Statewide HSIP Program

	607755	WEYMOUTH- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 53 (WASHINGTON STREET) AT MUTTON LANE & PLEASANT STREET	6	HSIP	\$ 550,000	\$ 495,000	\$ 55,000	
Statewide HSIP Program Subtotal ►					\$ 550,000	\$ 495,000	\$ 55,000	◀ 90% Federal + 10% Non-Federal

► Statewide Safe Routes to Schools Program

	607997	SAUGUS - SAFE ROUTES TO SCHOOL (VETERANS MEMORIAL)	4	TAP	\$ 662,612	\$ 530,090	\$ 132,522	80% Federal + 20% Non-Federal
	607998	EVERETT - SAFE ROUTES TO SCHOOL (MADELAINE ENGLISH)	4	TAP	\$ 602,608	\$ 482,086	\$ 120,522	80% Federal + 20% Non-Federal
	607999	REVERE - SAFE ROUTES TO SCHOOL (GARFIELD ELEMENTARY & MIDDLE SCHOOL)	4	TAP	\$ 874,113	\$ 699,290	\$ 174,823	80% Federal + 20% Non-Federal
	608000	BEDFORD - SAFE ROUTES TO SCHOOL (JOHN GLENN MIDDLE)	4	TAP	\$ 780,000	\$ 624,000	\$ 156,000	80% Federal + 20% Non-Federal
Statewide Safe Routes to Schools Program Subtotal ►					\$ 2,256,721	\$ 1,805,377	\$ 451,344	◀ Funding Split Varies by Funding Source

► Statewide CMAQ

	601579	WAYLAND- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 27 (MAIN STREET) AND ROUTE 30 (COMMONWEALTH ROAD)	3	CMAQ	\$ 2,425,710	\$ 1,940,568	\$ 485,142	
	605189	CONCORD- BRUCE FREEMAN RAIL TRAIL CONSTRUCTION, FROM COMMONWEALTH AVENUE TO POWDER MILL ROAD, INCLUDES 2 RAILROAD BRIDGES & 1 CULVERT (PHASE II-C)	4	CMAQ	\$ 5,532,584	\$ 4,426,067	\$ 1,106,517	
	606316	BROOKLINE- PEDESTRIAN BRIDGE REHABILITATION, B-27-016, OVER MBTA OFF CARLTON STREET	6	CMAQ	\$ 2,846,700	\$ 2,277,360	\$ 569,340	
Statewide CMAQ ►					\$ 10,804,994	\$ 8,643,995	\$ 2,160,999	◀ 80% Federal + 20% Non-Federal

► Statewide Transportation Enhancements

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Transportation Enhancements Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

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► Statewide ITS								
		No Projects Programmed			\$ -	-	-	
Statewide ITS Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Statewide Interstate Maintenance Program								
	606176	FOXBOROUGH-PLAINVILLE-WRENTHAM- INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 1,604,800	\$ 1,444,320	\$ 160,480	IM+Stormwater Total Cost = \$3,344,800
Statewide Interstate Maintenance Program Subtotal ►					\$ 1,604,800	\$ 1,444,320	\$ 160,480	◀ 90% Federal + 10% Non-Federal
► Statewide NHS Preservation Program+								
AMENDMENT:Change Project Description	608180	WELLESLEY- RESURFACING ON ROUTE 9, FROM LIMIT OF ADD-A-LANE TO EAST OF OVERBROOK INTERSECTION	6	NHPP	\$ 7,327,800	\$ 5,862,240	\$ 1,465,560	Project ID change from 607340 to 608180; project scope has been reduced to resurfacing only; was \$7,327,800
	607488	SOUTHBOROUGH- RESURFACING & RELATED WORK ON ROUTE 9, FROM THE FRAMINGHAM T.L TO WHITE BAGLEY ROAD	3	NHPP	\$ 3,791,340	\$ 3,033,072	\$ 758,268	
Statewide NHS Preservation Program Subtotal ►					\$ 11,119,140	\$ 8,895,312	\$ 2,223,828	◀ 80% Federal + 20% Non-Federal
► Statewide RR Grade Crossings								
		No Projects Programmed			\$ -	-	-	
Statewide RR Grade Crossings Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Statewide Stormwater Retrofits								
	608059	SALEM - STORMWATER IMPROVEMENTS ALONG ROUTE 107 (SALEM BYPASS ROAD)	4	STP-TE	\$ 125,000	\$ 100,000	\$ 25,000	
	608134	HINGHAM - BROCKTON - STORMWATER IMPROVEMENTS ALONG ROUTE 3A/ROUTE 28	5	STP-TE	\$ 479,100	\$ 383,280	\$ 95,820	
	606176	FOXBOROUGH-PLAINVILLE-WRENTHAM- INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	STP-TE	\$ 1,740,000	\$ 1,392,000	\$ 348,000	IM+Stormwater Total Cost = \$3,344,800
Statewide Stormwater Retrofits Subtotal ►					\$ 2,344,100	\$ 1,875,280	\$ 468,820	◀ 80% Federal + 20% Non-Federal
► Statewide ADA Implementation Plan								
		No Projects Programmed			\$ -	-	-	
Statewide ADA Implementation Plan Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Other Statewide Items								
		ABP GANS Repayment			\$ -	-	-	
		Award Adjustments, Change Orders, Project Value Changes, Etc.			\$ -	-	-	
		DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs			\$ -	-	-	
		Planning			\$ -	-	-	
		Statewide Design and Right of Way			\$ -	-	-	
		Statewide Recreational Trails			\$ -	-	-	
Other Statewide Items Subtotal ►					\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

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► Section 2A / Non-Federal Projects

► Non Federal Aid

	1568	FAIRMOUNT IMPROVEMENTS	N/A	NFA	\$ 447,000		\$ 447,000	Lists cash flows (based on state fiscal year)
	1572	RED LINE-BLUE LINE CONNECTOR DESIGN	N/A	NFA	\$ 29,000,000		\$ 29,000,000	MassDOT made a formal request on Aug. 1, 2011, to remove this project from the State Implementation Plan regulation. The MPO is continuing to reference this project in the document until the process is complete.
Non-Federal Aid Subtotal ►					\$ 29,447,000		\$ 29,447,000	◀100% Non-Federal

► Section 2B / Non-Federal Bridge Projects

► Section 2B / Non-Federal Bridge Projects

		No Projects Programmed		NFA	\$ -		\$ -	
Section 2B / Non-Federal Bridge Projects Subtotal ►					\$ -		\$ -	◀100% Non-Federal

2016 Boston Region MPO TIP Summary

	TIP Section 1: ▼	TIP Section 2: ▼	Total of All Projects ▼	
Total ►	\$ 196,305,376	\$ 29,447,000	\$ 225,752,376	◀ Total Spending in Region
Federal Funds ►	\$ 157,619,781		\$ 157,619,781	◀ Total Federal Spending in Region
Non-Federal Funds ►	\$ 38,685,595	\$ 29,447,000	\$ 68,132,595	◀ Total Non-Federal Spending in Region

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road. The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Awarding Authority. For all projects contained in the TIP, the Commonwealth is the Awarding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00, and the Road Flagger and Police Detail Guidelines. By placing a project on the TIP, the Municipality acknowledges that 701 CMR 7.00 is applicable to its project and design and construction will be fully compliant with this Regulation. This information, and additional information relative to guidance and implementation of the Regulation can be found at the following link on the MassDOT Highway Division website: <http://www.massdot.state.ma.us/Highway/flaggers/main.aspx>

2016 Boston Region MPO Transportation Improvement Program

FTA Program ▼	Regional Transit Authority ▼	Project Description ▼	Carryover or Earmark Details ▼	Federal Funds ▼	State Match Sources					Local Funds ▼	Total Cost ▼	Additional Information ▼
					RTACAP ▼	MAP ▼	ICB ▼	TDC ▼	SCA ▼			

- Indicates a change in project cost
- Indicates removed from TIP (cost not reflected in total)
- Indicates a project moved in from another TIP element
- Indicates a project moved out to another TIP element (cost not reflected in total)
- Indicates a new addition to the TIP (action taken as denoted)
- Indicates a new funding category

5307	MBTA	PREVENTIVE MAINTENANCE		\$ 12,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,000,000	\$ 15,000,000	
5307	MBTA	Systems Upgrades		\$ 58,685,516	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,671,379	\$ 73,356,895	
5307	CATA	BUY REPLACEMENT 30-FT BUS (1)		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	removed from TIP; previously \$400,000
5307	CATA	PREVENTIVE MAINTENANCE		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	removed from TIP; previously \$241,738
5307	CATA	ACQUIRE - MISC SUPPORT EQUIPMENT		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	removed from TIP; previously \$27,502
5307	MWRTA	ACQUISITION OF BUS SUPPORT EQUIP/FACILITIES		\$ 283,056	\$ 70,765	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 353,821	
5307	MWRTA	NON FIXED ROUTE ADA PARA SERV		\$ 1,300,000	\$ -	\$ -	\$ -	\$ -	\$ 325,000	\$ -	\$ 1,625,000	
5307	MWRTA	TERMINAL, INTERMODAL (TRANSIT)		\$ 150,000	\$ 37,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 187,500	
5307	MWRTA	Mobility Management		\$ 25,000	\$ 6,250	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,250	
5307 Subtotal ▶				\$ 72,443,572	\$ 114,515	\$ -	\$ -	\$ -	\$ 325,000	\$ 17,671,379	\$ 90,554,466	
5337	MBTA	Bridge & Tunnel Program		\$ 85,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,250,000	\$ 106,250,000	
5337	MBTA	Stations - T-GAPS		\$ 16,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000,000	\$ 20,000,000	
5337	MBTA	Systems Upgrades		\$ 20,190,546	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,047,637	\$ 25,238,183	
5337 Subtotal ▶				\$ 121,190,546	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,297,637	\$ 151,488,183	
5339	MBTA	Systems Upgrades		\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	
5339 Subtotal ▶				\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	
5310		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
5310 Subtotal ▶				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

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FTA Program ▼	Regional Transit Authority ▼	Project Description ▼	Carryover or Earmark Details ▼	Federal Funds ▼	State Match Sources					Local Funds ▼	Total Cost ▼	Additional Information ▼
					RTACAP ▼	MAP ▼	ICB ▼	TDC ▼	SCA ▼			
5309	MBTA	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	\$ 150,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 217,838,000	\$367,838,000	The Green Line Extension project received a New Starts Full Funding Grant Agreement in FFY 2015. The cash flows for the project begin programming New Starts funding in FFY 2015 and program \$150 million in New Starts in FFY 2016. \$1,270,262,000 of the \$1,992,243,000 project cost is programmed in FFYs 2016-19.
5309 Subtotal ▶				\$ 150,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 217,838,000	\$367,838,000	
SoGR		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Livability		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TIGER		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Grants Subtotal ▶				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other	CATA	BUY REPLACEMENT 30-FT BUS (4)	N/A	\$ -	\$ 800,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 800,000	
Other	CATA	SHOP EQ/SOFTWARE MAINT - Match for FY15	N/A	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000	
Other	CATA	FACILITY - Match for FY15	N/A	\$ -	\$ 15,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,600	
Other	CATA	SUPPORT EQUIP - Match for FY15	N/A	\$ -	\$ 4,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,176	
Other	MWRTA	REHAB/RENOVATE - BUS TERMINAL	N/A	\$ -	\$ 970,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 970,000	
Other Subtotal ▶				\$ -	\$ 1,799,776	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,799,776	
Total ▶				\$ 348,921,145	\$ 1,914,291	\$ -	\$ -	\$ -	\$ 325,000	\$ 267,128,773	\$ 618,289,209	

Fiscal Constraint Analysis

Federal Funding Source ▼	Programmed ▼	Available ▼	(+/-) ▼	State Funding Source ▼	Programmed ▼	Available ▼	(+/-) ▼
FFY 16 / 5307	\$ 72,443,572	\$ 136,927,264	\$ 64,483,692 Available	RTACAP	\$ 1,914,291	\$ 1,999,792	\$ 85,501 Available
FFY 16 / 5337	\$ 121,190,546	\$ 121,190,546	\$ - Available	MAP	\$ -	\$ -	\$ - Available
FFY 16 / 5339	\$ 5,287,027	\$ 5,287,027	\$ - Available	ITCCAP	\$ -	\$ -	\$ - Available
FFY 16 / 5310	\$ -	\$ -	\$ - Available	SCA	\$ 325,000	\$ 3,234,526	\$ 2,909,526 Available
FFY 16 / 5309	\$ 150,000,000	\$ 150,000,000	\$ - Available	TDC	\$ -	\$ -	\$ - Available

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► Section 1A / Federal Aid Target Projects

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- Indicates a project moved out to another TIP element (cost not reflected in total)
- Indicates a new addition to the TIP (action taken as denoted)
- Indicates a new funding category

► HSIP - Highway Safety Improvement Program

	604810	MARLBOROUGH- RECONSTRUCTION OF ROUTE 85 (MAPLE STREET)	3	HSIP	\$ 3,397,727	\$ 3,057,954	\$ 339,773	HSIP+CMAQ+STP Total Cost = \$5,613,636
	604935	WOBURN- RECONSTRUCTION OF MONTVALE AVENUE, FROM I-93 INTERCHANGE TO CENTRAL STREET (APPROX. 1,850 FT)	4	HSIP	\$ 3,564,629	\$ 3,208,166	\$ 356,463	STP+HSIP Total Cost = \$4,752,838
	607309	HINGHAM- RECONSTRUCTION & RELATED WORK ON DERBY STREET, FROM POND PARK ROAD TO CUSHING STREET	5	HSIP	\$ 798,857	\$ 718,972	\$ 79,886	HSIP+CMAQ Total Cost = \$3,994,287
HSIP Subtotal ►					\$ 7,761,213	\$ 6,985,092	\$ 776,121	◀ 90% Federal + 10% Non-Federal

► CMAQ - Congestion Mitigation and Air Quality Improvement Program

	604810	MARLBOROUGH- RECONSTRUCTION OF ROUTE 85 (MAPLE STREET)	3	CMAQ	\$ 2,000,000	\$ 1,600,000	\$ 400,000	HSIP+CMAQ+STP Total Cost = \$5,613,636
	604989	SOUTHBOROUGH- RECONSTRUCTION OF MAIN STREET (ROUTE 30), FROM SEARS ROAD TO PARK STREET	3	CMAQ	\$ 1,038,370	\$ 830,696	\$ 207,674	STP+CMAQ+TAP Total Cost = \$6,862,752
	605110	BROOKLINE- INTERSECTION & SIGNAL IMPROVEMENTS @ ROUTE 9 & VILLAGE SQUARE (GATEWAY EAST)	6	CMAQ	\$ 471,811	\$ 377,449	\$ 94,362	STP+TAP+CMAQ+Private Sector Contribution (\$1,000,000) Total Cost = \$5,818,649
	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	CMAQ	\$ 13,427,220	\$ 10,741,776	\$ 2,685,444	Yr 2 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP)
CMAQ Subtotal ►					\$ 16,937,401	\$ 13,549,921	\$ 3,387,480	◀ 80% Federal + 20% Non-Federal

► TAP - Transportation Alternatives Program

	604989	SOUTHBOROUGH- RECONSTRUCTION OF MAIN STREET (ROUTE 30), FROM SEARS ROAD TO PARK STREET	3	TAP	\$ 2,824,382	\$ 2,259,506	\$ 564,876	STP+CMAQ+TAP Total Cost = \$6,862,752
	605110	BROOKLINE- INTERSECTION & SIGNAL IMPROVEMENTS @ ROUTE 9 & VILLAGE SQUARE (GATEWAY EAST)	6	TAP	\$ 2,346,838	\$ 1,877,470	\$ 469,368	STP+TAP+CMAQ+Private Sector Contribution (\$1,000,000) Total Cost = \$5,818,649
TAP Subtotal ►					\$ 5,171,220	\$ 4,136,976	\$ 1,034,244	◀ 80% Federal + 20% Non-Federal

2017 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► Non-CMAQ/HSIP/TAP (Other)

	603711	NEEDHAM- WELLESLEY- REHAB/REPLACEMENT OF 6 BRIDGES ON I-95/ROUTE 128: N-04-020, N-04-021, N-04-022, N-04-026, N-04-027, N-04-037 & W-13-023 (ADD-A-LANE - CONTRACT V)	6	NHPP	\$ 13,360,000	\$ 10,688,000	\$ 2,672,000	AC Yr 4 of 5; NHPP+BR+Statewide Infrastructure Total Cost = \$164,919,140 (\$50,725,206 programmed within FFYs 2016-20 TIP)
	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	STP	\$ 16,472,780	\$ 13,178,224	\$ 3,294,556	Yr 2 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP)
	29492	BEDFORD- BILLERICA- BURLINGTON- MIDDLESEX TURNPIKE IMPROVEMENTS, FROM CROSBY DRIVE NORTH TO MANNING ROAD, INCLUDES RECONSTRUCTION OF B-04-006 (PHASE III)	4	STP	\$ 6,604,906	\$ 5,283,925	\$ 1,320,981	AC Yr 2 of 2; STP+Northern Middlesex Council of Governments contribution (\$1,000,000) Total Cost = \$29,296,348
	601630	WEYMOUTH- ABINGTON- RECONSTRUCTION & WIDENING ON ROUTE 18 (MAIN STREET) FROM HIGHLAND PLACE TO ROUTE 139 (4.0 MILES) INCLUDES REPLACING W-32-013, ROUTE 18 OVER THE OLD COLONY RAILROAD (MBTA)	6	STP	\$ 12,850,000	\$ 10,280,000	\$ 2,570,000	AC Yr 2 of 4; STP+HSIP+TEA-21 Earmark (MA1236) Total Cost = \$60,053,518
	607309	HINGHAM- RECONSTRUCTION & RELATED WORK ON DERBY STREET, FROM POND PARK ROAD TO CUSHING STREET	5	STP	\$ 3,195,430	\$ 2,556,344	\$ 639,086	HSIP+STP Total Cost = \$3,994,287
	605110	BROOKLINE- INTERSECTION & SIGNAL IMPROVEMENTS @ ROUTE 9 & VILLAGE SQUARE (GATEWAY EAST)	6	STP	\$ 2,000,000	\$ 1,600,000	\$ 400,000	STP+TAP+CMAQ+Private Sector Contribution (\$1,000,000) Total Cost = \$5,818,649
	604989	SOUTHBOROUGH- RECONSTRUCTION OF MAIN STREET (ROUTE 30), FROM SEARS ROAD TO PARK STREET	3	STP	\$ 3,000,000	\$ 2,400,000	\$ 600,000	STP+CMAQ+TAP Total Cost = \$6,862,752
	604810	MARLBOROUGH- RECONSTRUCTION OF ROUTE 85 (MAPLE STREET)	3	STP	\$ 215,909	\$ 172,727	\$ 43,182	HSIP+CMAQ+STP Total Cost = \$5,613,636
	604935	WOBURN- RECONSTRUCTION OF MONTVALE AVENUE, FROM I-93 INTERCHANGE TO CENTRAL STREET (APPROX. 1,850 FT)	4	STP	\$ 1,188,210	\$ 950,568	\$ 237,642	STP+HSIP Total Cost = \$4,752,838

Non-CMAQ/HSIP/TAP (Other) Subtotal ► \$ 58,887,235 \$ 47,109,788 \$ 11,777,447 ◀ 80% Federal + 20% Non-Federal

► Section 1A / Fiscal Constraint Analysis

Total Federal Aid Target Funds Programmed ►	\$ 88,757,069	\$ 88,759,294	◀ Total Target	\$ 2,225	Target Funds Available
Total Non-CMAQ/HSIP/TAP (Other) Programmed ►	\$ 58,887,235	\$ 67,723,275	◀ Max. Non-CMAQ/HSIP/TAP	\$ 2,225	Non-CMAQ/HSIP/TAP (Other) Available
Total HSIP Programmed ►	\$ 7,761,213	\$ 4,296,710	◀ Min. HSIP	\$ (3,464,503)	HSIP Minimum Met
Total CMAQ Programmed ►	\$ 16,937,401	\$ 13,427,220	◀ Min. CMAQ	\$ (3,510,181)	CMAQ Minimum Met
Total TAP Programmed ►	\$ 5,171,220	\$ 3,312,089	◀ Min. TAP	\$ (1,859,131)	TAP Requirement Exceeded!

HSIP, CMAQ, TAP Overprogrammed \$ (8,833,815)

2017 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► Section 1B / Federal Aid Bridge Projects

► Statewide Bridge Maintenance Program

	607507	WAKEFIELD - BRIDGE DECK REPLACEMENT BRIDGE NO. W-01-021 (2MF), HOPKINS STREET OVER I-95 / ST 128	4	NHPP	\$ 2,469,936	\$ 1,975,949	\$ 493,987	
Statewide Bridge Maintenance Program Subtotal ►					\$ 2,469,936	\$ 1,975,949	\$ 493,987	◀ 80% Federal + 20% Non-Federal

► On System

AMENDMENT:Change Additional Information	604173	BOSTON- BRIDGE REHABILITATION, B-16-016, NORTH WASHINGTON STREET OVER THE CHARLES RIVER	6	NHPP	\$ 12,984,000	\$ 10,387,200	\$ 2,596,800	AC Yr 1 of 4; Total Cost = \$112,700,000; was \$117,208,000
	607954	DANVERS - BRIDGE REPLACEMENT, D-03-018, ROUTE 128 OVER WATERS RIVER	4	NHPP	\$ 10,513,973	\$ 8,411,178	\$ 2,102,795	
	606553	HANOVER- NORWELL- SUPERSTRUCTURE REPLACEMENT, H-06-010, ST 3 OVER ST 123 (WEBSTER STREET) & N-24-003, ST 3 OVER ST 123 (HIGH STREET)	6	NHPP	\$ 12,955,600	\$ 10,364,480	\$ 2,591,120	AC Yr 2 of 2; Total Cost = \$41,955,600
	600867	BOSTON- BRIDGE REPLACEMENT, B-16-237, MASSACHUSETTS AVENUE (ROUTE 2A) OVER COMMONWEALTH AVENUE	6	NHPP	\$ 7,109,795	\$ 5,687,836	\$ 1,421,959	AC Yr 2 of 2; Total Cost = \$16,183,795
	604952	LYNN- SAUGUS- BRIDGE REPLACEMENT, L-18-016=S-05-008, ROUTE 107 OVER THE SAUGUS RIVER (AKA - BELDEN G. BLY BRIDGE)	4	NHPP	\$ 6,800,000	\$ 5,440,000	\$ 1,360,000	AC Yr 1 of 4; Total Cost = \$45,000,000
On System Subtotal ►					\$ 50,363,368	\$ 40,290,694	\$ 10,072,674	◀ 80% Federal + 20% Non-Federal

► Off-System

		No Projects Programmed			\$ -	\$ -	\$ -	
Off-System Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Statewide Bridge Inspection Program

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Bridge Inspection Program Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Section 1C / Federal Aid Non-Target Projects

► Other Federal Aid

	601630	WEYMOUTH- ABINGTON- RECONSTRUCTION & WIDENING ON ROUTE 18 (MAIN STREET) FROM HIGHLAND PLACE TO ROUTE 139 (4.0 MILES) INCLUDES REPLACING W-32-013, ROUTE 18 OVER THE OLD COLONY RAILROAD (MBTA)	6	HPP (1998)	\$ 6,171,760	\$ 4,937,408	\$ 1,234,352	AC Yr 2 of 4; STP+HSIP+TEA-21 Earmark (MA1236) Total Cost = \$60,053,518
Other Federal Aid Subtotal ►					\$ 6,171,760	\$ 4,937,408	\$ 1,234,352	◀ Funding Split Varies by Funding Source

2017 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
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Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► Section 1D / Federal Aid Major & State Category Projects

► Statewide Infrastructure Program

	603917	MEDFORD- STONEHAM- WOBURN- READING- HIGHWAY LIGHTING REHABILITATION ON I-93 (PHASE II)	4	STP	\$ 2,500,000	\$ 2,000,000	\$ 500,000	AC Year 2 of 2; Total Cost = \$17,500,000
	605733	DISTRICT 6- HIGHWAY LIGHTING SYSTEM REPLACEMENT ON I-93, FROM SOUTHAMPTON STREET TO NEPONSET AVENUE IN BOSTON	6	STP	\$ 4,500,000	\$ 3,600,000	\$ 900,000	AC Year 2 of 3; Total Cost = \$8,250,000
Statewide Infrastructure Program Subtotal ►					\$ 7,000,000	\$ 5,600,000	\$ 1,400,000	◀ 80% Federal + 20% Non-Federal

► Statewide HSIP Program

	607754	MILTON- INTERSECTION & SIGNAL IMPROVEMENTS AT GRANITE AVENUE & SQUANTUM STREET	6	HSIP	\$ 350,000	\$ 315,000	\$ 35,000	
Statewide HSIP Program Subtotal ►					\$ 350,000	\$ 315,000	\$ 35,000	◀ 90% Federal + 10% Non-Federal

► Statewide Safe Routes to Schools Program

	608003	WEYMOUTH - SAFE ROUTES TO SCHOOL (PINGREE ELEMENTARY)	6	TAP	\$ 754,000	\$ 603,200	\$ 150,800	
	608004	WATERTOWN - SAFE ROUTES TO SCHOOL (HOSMER ELEMENTARY)	6	TAP	\$ 903,500	\$ 722,800	\$ 180,700	
Statewide Safe Routes to Schools Program Subtotal ►					\$ 1,657,500	\$ 1,326,000	\$ 331,500	◀ Funding Split Varies by Funding Source

► Statewide CMAQ

	602165	STONEHAM- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 28/NORTH STREET	4	CMAQ	\$ 1,532,550	\$ 1,226,040	\$ 306,510	
Statewide CMAQ ►					\$ 1,532,550	\$ 1,226,040	\$ 306,510	◀ 80% Federal + 20% Non-Federal

► Statewide Transportation Enhancements

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Transportation Enhancements Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Statewide ITS

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide ITS Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Statewide Interstate Maintenance Program

	607481	RANDOLPH- QUINCY- BRAINTREE- RESURFACING & RELATED WORK ON I-93	6	NHPP	\$ 12,137,008	\$ 10,923,307	\$ 1,213,701	
Statewide Interstate Maintenance Program Subtotal ►					\$ 12,137,008	\$ 10,923,307	\$ 1,213,701	◀ 90% Federal + 10% Non-Federal

► Statewide NHS Preservation Program+

	607477	LYNNFIELD- PEABODY- RESURFACING & RELATED WORK ON ROUTE 1	4	NHPP	\$ 7,721,542	\$ 6,177,234	\$ 1,544,308	
Statewide NHS Preservation Program Subtotal ►					\$ 7,721,542	\$ 6,177,234	\$ 1,544,308	◀ 80% Federal + 20% Non-Federal

► Statewide RR Grade Crossings

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide RR Grade Crossings Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

2017 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
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Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
► Statewide Stormwater Retrofits								
		No Projects Programmed			\$ -	-	-	
Statewide Stormwater Retrofits Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Statewide ADA Implementation Plan								
		No Projects Programmed			\$ -	-	-	
Statewide ADA Implementation Plan Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Other Statewide Items								
		ABP GANS Repayment			\$ -	-	-	
		Award Adjustments, Change Orders, Project Value Changes, Etc.			\$ -	-	-	
		DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs			\$ -	-	-	
		Planning			\$ -	-	-	
		Statewide Design and Right of Way			\$ -	-	-	
		Statewide Recreational Trails			\$ -	-	-	
Other Statewide Items Subtotal ►					\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

► Section 2A / Non-Federal Projects

► Non Federal Aid

Project ID	Project Description	MassDOT District	Funding Source	Total Programmed Funds	Federal Funds	Non-Federal Funds	Additional Information
1568	FAIRMOUNT IMPROVEMENTS	N/A	NFA	\$ 11,574,800		\$ 11,574,800	Lists cash flows (based on state fiscal year)
1572	RED LINE-BLUE LINE CONNECTOR DESIGN	N/A	NFA	\$ 10,000,000		\$ 10,000,000	MassDOT made a formal request on Aug. 1, 2011, to remove this project from the State Implementation Plan regulation. The MPO is continuing to reference this project in the document until the process is complete.
Non-Federal Aid Subtotal ►				\$ 21,574,800		\$ 21,574,800	◀ 100% Non-Federal

► Section 2B / Non-Federal Bridge Projects

► Section 2B / Non-Federal Bridge Projects

	No Projects Programmed		NFA	\$ -		\$ -	
Section 2B / Non-Federal Bridge Projects Subtotal ►				\$ -		\$ -	◀ 100% Non-Federal

2017 Boston Region MPO TIP Summary

	TIP Section 1: ▼	TIP Section 2: ▼	Total of All Projects ▼	
Total ►	\$ 178,160,733	\$ 21,574,800	\$ 199,735,533	◀ Total Spending in Region
Federal Funds ►	\$ 144,553,409		\$ 144,553,409	◀ Total Federal Spending in Region
Non-Federal Funds ►	\$ 33,607,325	\$ 21,574,800	\$ 55,182,125	◀ Total Non-Federal Spending in Region

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road. The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Awarding Authority. For all projects contained in the TIP, the Commonwealth is the Awarding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00, and the Road Flagger and Police Detail Guidelines. By placing a project on the TIP, the Municipality acknowledges that 701 CMR 7.00 is applicable to its project and design and construction will be fully compliant with this Regulation. This information, and additional information relative to guidance and implementation of the Regulation can be found at the following link on the MassDOT Highway Division website: <http://www.massdot.state.ma.us/Highway/flaggers/main.aspx>

2017 Boston Region MPO Transportation Improvement Program

FTA Program ▼	Regional Transit Authority ▼	Project Description ▼	Carryover or Earmark Details ▼	Federal Funds ▼	State Match Sources					Local Funds ▼	Total Cost ▼	Additional Information ▼
					RTACAP ▼	MAP ▼	ICB ▼	TDC ▼	SCA ▼			
5307	MBTA	PREVENTIVE MAINTENANCE		\$ 12,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,000,000	\$ 15,000,000	
5307	MBTA	Systems Upgrades		\$ 58,685,516	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,671,379	\$ 73,356,895	
5307	CATA	PREVENTIVE MAINTENANCE	2016	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 500,000	
5307	CATA	ACQUIRE - MISC SUPPORT EQUIPMENT	2016	\$ 19,390	\$ 4,848	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,238	
5307	CATA	ACQUIRE - SUPPORT VEHICLES	2016	\$ 88,000	\$ 22,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,000	
5307	CATA	ACQUIRE - SHOP EQ/SOFTWARE MAINTENANCE	2016	\$ 28,000	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000	
5307	MWRTA	INTERMODAL (TRANSIT): Facil. Improvements		\$ 150,000	\$ 37,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 187,500	
5307	MWRTA	ACQUISITION OF BUS SUPPORT EQUIP/FACILITIES		\$ 248,415	\$ 62,104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 310,519	
5307	MWRTA	NON FIXED ROUTE ADA PARA SERV		\$ 1,300,000	\$ -	\$ -	\$ -	\$ -	\$ 325,000	\$ -	\$ 1,625,000	
5307	MWRTA	Mobility Management		\$ 25,000	\$ 6,250	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,250	
5307 Subtotal ►				\$ 72,944,321	\$ 139,702	\$ -	\$ -	\$ -	\$ 325,000	\$ 17,771,379	\$ 91,180,402	
5337	MBTA	Bridge & Tunnel Program		\$ 100,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000,000	\$ 125,000,000	
5337	MBTA	Systems Upgrades		\$ 21,190,546	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,297,637	\$ 26,488,183	
5337 Subtotal ►				\$ 121,190,546	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,297,637	\$ 151,488,183	
5339	MBTA	Systems Upgrades		\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	
5339 Subtotal ►				\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	
5310		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
5310 Subtotal ►				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

2017 Boston Region MPO Transportation Improvement Program

FTA Program ▼	Regional Transit Authority ▼	Project Description ▼	Carryover or Earmark Details ▼	Federal Funds ▼	State Match Sources					Local Funds ▼	Total Cost ▼	Additional Information ▼
					RTACAP ▼	MAP ▼	ICB ▼	TDC ▼	SCA ▼			
5309	MBTA	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	\$ 150,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 230,670,000	\$ 380,670,000	The Green Line Extension project received a New Starts Full Funding Grant Agreement in FFY 2015. The cash flows for the project begin programming New Starts funding in FFY 2015 and program \$150 million in New Starts in FFY 2017. \$1,270,262,000 of the \$1,992,243,000 project cost is programmed in FFYs 2016-19.
5309 Subtotal ▶				\$ 150,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 230,670,000	\$ 380,670,000	
SoGR		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Livability		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TIGER		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Grants Subtotal ▶				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other	CATA	BUY REPLACEMENT 30-FT BUS (3)		\$ -	\$ 1,275,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,275,000	
Other Subtotal ▶				\$ -	\$ 1,275,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,275,000	
Total ▶				\$ 349,421,894	\$ 1,414,702	\$ -	\$ -	\$ -	\$ 325,000	\$ 280,060,773	\$ 631,222,369	

Fiscal Constraint Analysis

Federal Funding Source ▼	Programmed ▼	Available ▼	(+/-) ▼	State Funding Source ▼	Programmed ▼	Available ▼	(+/-) ▼
FFY 17 / 5307	\$ 72,944,321	\$ 136,932,618	\$63,988,297 Available	RTACAP	\$ 1,414,702	\$ 1,414,702	\$ - Available
FFY 17 / 5337	\$ 121,190,546	\$ 121,190,546	\$ - Available	MAP	\$ -	\$ -	\$ - Available
FFY 17 / 5339	\$ 5,287,027	\$ 5,287,027	\$ - Available	ITCCAP	\$ -	\$ -	\$ - Available
FFY 17 / 5310	\$ -	\$ -	\$ - Available	SCA	\$ 325,000	\$ 3,234,526	\$ 2,909,526 Available
FFY 17 / 5309	\$ 150,000,000	\$ 150,000,000	\$ - Available	TDC	\$ -	\$ -	\$ - Available

2018 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
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Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► Section 1A / Federal Aid Target Projects

- Indicates a change in project cost
- Indicates removed from TIP (cost not reflected in total)
- Indicates a project moved in from another TIP element
- Indicates a project moved out to another TIP element (cost not reflected in total)
- Indicates a new addition to the TIP (action taken as denoted)
- Indicates a new funding category

► HSIP - Highway Safety Improvement Program

	600518	HINGHAM- INTERSECTION IMPROVEMENTS AT DERBY STREET, WHITING STREET (ROUTE 53) AND GARDNER STREET	5	HSIP	\$ 611,547	\$ 550,392	\$ 61,155	STP+HSIP Total Cost = \$3,057,735
	606635	NEEDHAM- NEWTON- RECONSTRUCTION OF HIGHLAND AVENUE, NEEDHAM STREET & CHARLES RIVER BRIDGE, N-04-002, FROM WEBSTER STREET (NEEDHAM) TO ROUTE 9 (NEWTON)	6	HSIP	\$ 2,319,644	\$ 2,087,679	\$ 231,964	CMAQ+HSIP+TAP+STP Total Cost = 15,464,292
HSIP Subtotal ►					\$ 2,931,191	\$ 2,638,072	\$ 293,119	◀ 90% Federal + 10% Non-Federal

► CMAQ - Congestion Mitigation and Air Quality Improvement Program

	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	CMAQ	\$ 13,427,220	\$ 10,741,776	\$ 2,685,444	Yr 3 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP)
	606635	NEEDHAM- NEWTON- RECONSTRUCTION OF HIGHLAND AVENUE, NEEDHAM STREET & CHARLES RIVER BRIDGE, N-04-002, FROM WEBSTER STREET (NEEDHAM) TO ROUTE 9 (NEWTON)	6	CMAQ	\$ 3,687,911	\$ 2,950,329	\$ 737,582	CMAQ+HSIP+TAP+STP Total Cost = 15,464,292
CMAQ Subtotal ►					\$ 17,115,131	\$ 13,692,105	\$ 3,423,026	◀ 80% Federal + 20% Non-Federal

► TAP - Transportation Alternatives Program

	606635	NEEDHAM- NEWTON- RECONSTRUCTION OF HIGHLAND AVENUE, NEEDHAM STREET & CHARLES RIVER BRIDGE, N-04-002, FROM WEBSTER STREET (NEEDHAM) TO ROUTE 9 (NEWTON)	6	TAP	\$ 3,312,089	\$ 2,649,671	\$ 662,418	CMAQ+HSIP+TAP+STP Total Cost = 15,464,292
TAP Subtotal ►					\$ 3,312,089	\$ 2,649,671	\$ 662,418	◀ 80% Federal + 20% Non-Federal

2018 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► Non-CMAQ/HSIP/TAP (Other)

	603711	NEEDHAM- WELLESLEY- REHAB/REPLACEMENT OF 6 BRIDGES ON I-95/ROUTE 128: N-04-020, N-04-021, N-04-022, N-04-026, N-04-027, N-04-037 & W-13-023 (ADD-A-LANE - CONTRACT V)	6	NHPP	\$ 13,168,183	\$ 10,534,546	\$ 2,633,637	AC Yr 5 of 5; NHPP+BR+Statewide Infrastructure Total Cost = \$164,919,140 (\$50,725,206 programmed within FFYs 2016-20 TIP)
	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	STP	\$ 26,572,780	\$ 21,258,224	\$ 5,314,556	Yr 3 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP)
	601630	WEYMOUTH- ABINGTON- RECONSTRUCTION & WIDENING ON ROUTE 18 (MAIN STREET) FROM HIGHLAND PLACE TO ROUTE 139 (4.0 MILES) INCLUDES REPLACING W-32-013, ROUTE 18 OVER THE OLD COLONY RAILROAD (MBTA)	6	STP	\$ 21,031,758	\$ 16,825,406	\$ 4,206,352	AC Yr 3 of 4; STP+HSIP+TEA-21 Earmark Total Cost = \$60,053,518
	606635	NEEDHAM- NEWTON- RECONSTRUCTION OF HIGHLAND AVENUE, NEEDHAM STREET & CHARLES RIVER BRIDGE, N-04-002, FROM WEBSTER STREET (NEEDHAM) TO ROUTE 9 (NEWTON)	6	STP	\$ 6,144,648	\$ 4,915,718	\$ 1,228,930	CMAQ+HSIP+TAP+STP Total Cost = 15,464,292
	600518	HINGHAM- INTERSECTION IMPROVEMENTS AT DERBY STREET, WHITING STREET (ROUTE 53) AND GARDNER STREET	5	STP	\$ 2,446,188	\$ 1,956,950	\$ 489,238	STP+HSIP Total Cost = \$3,057,735
Non-CMAQ/HSIP/TAP (Other) Subtotal ►					\$ 69,363,557	\$ 55,490,846	\$ 13,872,711	◀ 80% Federal + 20% Non-Federal

► Section 1A / Fiscal Constraint Analysis

Total Federal Aid Target Funds Programmed ►	\$ 92,721,968	\$ 92,626,333	◀ Total Target	\$ (95,635)	Funds Over Programmed
Total Non-CMAQ/HSIP/TAP (Other) Programmed ►	\$ 69,363,557	\$ 71,590,314	◀ Max. Non-CMAQ/HSIP/TAP	\$ (95,635)	Non-CMAQ/HSIP/TAP (Other) Exceeds Maximum
Total HSIP Programmed ►	\$ 2,931,191	\$ 4,296,710	◀ Min. HSIP	\$ 1,365,519	HSIP Minimum Not Met
Total CMAQ Programmed ►	\$ 17,115,131	\$ 13,427,220	◀ Min. CMAQ	\$ (3,687,911)	CMAQ Minimum Met
Total TAP Programmed ►	\$ 3,312,089	\$ 3,312,089	◀ Min. TAP	\$ -	TAP Minimum Met

HSIP, CMAQ, TAP Overprogrammed \$ (2,322,392)

► Section 1B / Federal Aid Bridge Projects

► Statewide Bridge Maintenance Program

No Projects Programmed	\$ -	\$ -	\$ -
Statewide Bridge Maintenance Program Subtotal ►	\$ -	\$ -	\$ -

◀ 80% Federal + 20% Non-Federal

► On System

AMENDMENT:Change Additional Information	604173	BOSTON- BRIDGE REHABILITATION, B-16-016, NORTH WASHINGTON STREET OVER THE CHARLES RIVER	6	NHPP	\$ 36,000,000	\$ 28,800,000	\$ 7,200,000	AC Yr 2 of 4; Total Cost = \$112,700,000; was \$117,208,000
	604952	LYNN- SAUGUS- BRIDGE REPLACEMENT, L-18-016=S-05-008, ROUTE 107 OVER THE SAUGUS RIVER (AKA - BELDEN G. BLY BRIDGE)	4	NHPP	\$ 18,800,000	\$ 15,040,000	\$ 3,760,000	AC Yr 2 of 4; Total Cost = \$45,000,000
On System Subtotal ►					\$ 54,800,000	\$ 43,840,000	\$ 10,960,000	◀ 80% Federal + 20% Non-Federal

2018 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► Off-System

	606632	HOPKINTON- WESTBOROUGH- BRIDGE REPLACEMENT, H-23-006=W-24-016, FRUIT STREET OVER CSX & SUDBURY RIVER	3	STP-BR-OFF	\$ 11,727,339	\$ 9,381,871	\$ 2,345,468	
	607133	QUINCY- BRIDGE REPLACEMENT, ROBERTSON STREET OVER I-93/US 1/SR 3	6	STP-BR-OFF	\$ 6,435,763	\$ 5,148,610	\$ 1,287,153	
	604655	MARSHFIELD- BRIDGE REPLACEMENT, M-07-007, BEACH STREET OVER THE CUT RIVER	5	STP-BR-OFF	\$ 4,822,854	\$ 3,858,283	\$ 964,571	
	607533	WALTHAM- WOERD AVENUE OVER THE CHARLES RIVER	4	STP-BR-OFF	\$ 3,873,360	\$ 3,098,688	\$ 774,672	
Off-System Subtotal ►					\$ 26,859,316	\$ 21,487,453	\$ 5,371,863	◀ 80% Federal + 20% Non-Federal

► Statewide Bridge Inspection Program

	607915	NEWTON- WELLESLEY- WESTON- BRIDGE MAINTENANCE OF N-12-063, N-12-054, N-12-055 & N-12-056 ON I-95/ROUTE 128	6	NHPP	\$ 1,724,400	\$ 1,379,520	\$ 344,880	
Statewide Bridge Inspection Program Subtotal ►					\$ 1,724,400	\$ 1,379,520	\$ 344,880	◀ 80% Federal + 20% Non-Federal

► Section 1C / Federal Aid Non-Target Projects

► Other Federal Aid

	606134	BOSTON- TRAFFIC SIGNAL IMPROVEMENTS ON BLUE HILL AVENUE AND WARREN STREET	6	HPP (2005)	\$ 2,377,900	\$ 1,902,320	\$ 475,580	Construction; HPP 2129 (MA155)
	605789	BOSTON- RECONSTRUCTION OF MELNEA CASS BOULEVARD	6	HPP (2005)	\$ 2,429,730	\$ 1,943,784	\$ 485,946	Construction; HPP 4284 (MA203); SAFETEA-LU Earmark (HPP 756)+ SAFETEA-LU Earmark (HPP 4284) =Total Cost \$7,437,105
	605789	BOSTON- RECONSTRUCTION OF MELNEA CASS BOULEVARD	6	HPP (2005)	\$ 5,007,375	\$ 4,005,900	\$ 1,001,475	Construction; HPP 4284 (MA203); SAFETEA-LU Earmark (HPP 756)+ SAFETEA-LU Earmark (HPP 4284) =Total Cost \$7,437,105
Other Federal Aid Subtotal ►					\$ 9,815,005	\$ 7,852,004	\$ 1,963,001	◀ Funding Split Varies by Funding Source

► Section 1D / Federal Aid Major & State Category Projects

► Statewide Infrastructure Program

	605733	DISTRICT 6- HIGHWAY LIGHTING SYSTEM REPLACEMENT ON I-93, FROM SOUTHAMPTON STREET TO NEPONSET AVENUE IN BOSTON	6	STP	\$ 1,250,000	\$ 1,000,000	\$ 250,000	AC Year 3 of 3; Total Cost = \$8,250,000
	606381	ARLINGTON- BELMONT- HIGHWAY LIGHTING REPAIR & MAINTENANCE ON ROUTE 2	4	STP	\$ 5,750,000	\$ 4,600,000	\$ 1,150,000	AC Year 1 of 2; Total Cost = \$9,450,000
Statewide Infrastructure Program Subtotal ►					\$ 7,000,000	\$ 5,600,000	\$ 1,400,000	◀ 80% Federal + 20% Non-Federal

► Statewide HSIP Program

	607748	ACTION- INTERSECTION & SIGNAL IMPROVEMENTS ON SR 2 & SR 111 (MASSACHUSETTS AVENUE) AT PIPER ROAD & TAYLOR ROAD	3	HSIP	\$ 1,500,000	\$ 1,350,000	\$ 150,000	
	607761	SWAMPSCOTT- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 1A (PARADISE ROAD) AT SWAMPSCOTT MALL	4	HSIP	\$ 550,000	\$ 495,000	\$ 55,000	
Statewide HSIP Program Subtotal ►					\$ 2,050,000	\$ 1,845,000	\$ 205,000	◀ 90% Federal + 10% Non-Federal

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► Statewide Safe Routes to Schools Program								
		No Projects Programmed			\$ -	\$ -	\$ -	Funding Split Varies by Funding Source
		Statewide Safe Routes to Schools Program Subtotal ►			\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source
► Statewide CMAQ								
	607329	WAKEFIELD- LYNNFIELD- RAIL TRAIL EXTENSION, FROM THE GALVIN MIDDLE SCHOOL TO LYNNFIELD/PEABODY T.L.	4	CMAQ	\$ 7,662,854	\$ 6,130,283	\$ 1,532,571	
	606223	ACTON- CONCORD- BRUCE FREEMAN RAIL TRAIL CONSTRUCTION (PHASE II-B)	3	CMAQ	\$ 6,230,016	\$ 4,984,013	\$ 1,246,003	
	607732	FRAMINGHAM- NATICK- COCHITUATE RAIL TRAIL CONSTRUCTION INCLUDING PEDESTRIAN BRIDGE, N-03-014, OVER ROUTE 9 & BRIDGE OVER ROUTE 30	3	CMAQ	\$ 5,859,926	\$ 4,687,941	\$ 1,171,985	
		Statewide CMAQ ►			\$ 19,752,796	\$ 15,802,237	\$ 3,950,559	◀ 80% Federal + 20% Non-Federal
► Statewide Transportation Enhancements								
		No Projects Programmed			\$ -	-	-	
		Statewide Transportation Enhancements Subtotal ►			\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Statewide ITS								
		No Projects Programmed			\$ -	-	-	
		Statewide ITS Subtotal ►			\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Statewide Interstate Maintenance Program								
	608219	READING-WAKEFIELD- INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK ON I-95	4	NHPP	\$ 4,638,816	\$ 4,174,934	\$ 463,882	
		Statewide Interstate Maintenance Program Subtotal ►			\$ 4,638,816	\$ 4,174,934	\$ 463,882	◀ 90% Federal + 10% Non-Federal
► Statewide NHS Preservation Program+								
	608069	MARSHFIELD PEMBROKE NORWELL HANOVER ROCKLAND HINGHAM RESURFACING ON RT 3	5	NHPP	\$ 17,586,720	\$ 14,069,376	\$ 3,517,344	
	605608	DEDHAM - RESURFACING AND RELATED WORK ON ROUTE 109	6	NHPP	\$ 2,523,312	\$ 2,018,650	\$ 504,662	NHSP+Stormwater Total Cost = \$2,739,312
	608008	SAUGUS-RESURFACING AND RELATED WORK ON ROUTE 1	4	NHPP	\$ 10,597,910	\$ 8,478,328	\$ 2,119,582	
	608220	CONCORD - RESURFACING AND RELATED WORK ON ROUTE 2	4	NHPP	\$ 1,784,160	\$ 1,427,328	\$ 356,832	
		Statewide NHS Preservation Program Subtotal ►			\$ 32,492,102	\$ 25,993,682	\$ 6,498,420	◀ 80% Federal + 20% Non-Federal
► Statewide RR Grade Crossings								
		No Projects Programmed			\$ -	-	-	
		Statewide RR Grade Crossings Subtotal ►			\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Statewide Stormwater Retrofits								
	605608	DEDHAM - RESURFACING AND RELATED WORK ON ROUTE 109	6	STP-TE	\$ 216,000	\$ 172,800	\$ 43,200	NHSP+Stormwater Total Cost = \$2,739,312
		Statewide Stormwater Retrofits Subtotal ►			\$ 216,000	\$ 172,800	\$ 43,200	◀ 80% Federal + 20% Non-Federal

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Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► Statewide ADA Implementation Plan

		No Projects Programmed			\$ -	-	-	
Statewide ADA Implementation Plan Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Other Statewide Items

		ABP GANS Repayment			\$ -	-	-	
		Award Adjustments, Change Orders, Project Value Changes, Etc.			\$ -	-	-	
		DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs			\$ -	-	-	
		Planning			\$ -	-	-	
		Statewide Design and Right of Way			\$ -	-	-	
		Statewide Recreational Trails			\$ -	-	-	
Other Statewide Items Subtotal ►					\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

► Section 2A / Non-Federal Projects

► Non Federal Aid

	1568	FAIRMOUNT IMPROVEMENTS	N/A	NFA	\$ 9,000,000		\$ 9,000,000	Lists cash flows (based on state fiscal year)
Non-Federal Aid Subtotal ►					\$ 9,000,000		\$ 9,000,000	◀ 100% Non-Federal

► Section 2B / Non-Federal Bridge Projects

► Section 2B / Non-Federal Bridge Projects

		No Projects Programmed		NFA	\$ -		\$ -	
Section 2B / Non-Federal Bridge Projects Subtotal ►					\$ -		\$ -	◀ 100% Non-Federal

2018 Boston Region MPO TIP Summary

	TIP Section 1: ▼	TIP Section 2: ▼	Total of All Projects ▼	
Total ►	\$ 252,070,403	\$ 9,000,000	\$ 261,070,403	◀ Total Spending in Region
Federal Funds ►	\$ 202,618,323		\$ 202,618,323	◀ Total Federal Spending in Region
Non-Federal Funds ►	\$ 49,452,080	\$ 9,000,000	\$ 58,452,080	◀ Total Non-Federal Spending in Region

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road. The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Awarding Authority. For all projects contained in the TIP, the Commonwealth is the Awarding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00, and the Road Flagger and Police Detail Guidelines. By placing a project on the TIP, the Municipality acknowledges that 701 CMR 7.00 is applicable to its project and design and construction will be fully compliant with this Regulation. This information, and additional information relative to guidance and implementation of the Regulation can be found at the following link on the MassDOT Highway Division website: <http://www.massdot.state.ma.us/Highway/flaggers/main.aspx>

2018 Boston Region MPO Transportation Improvement Program

FTA Program ▼	Regional Transit Authority ▼	Project Description ▼	Carryover or Earmark Details ▼	Federal Funds ▼	State Match Sources					Local Funds ▼	Total Cost ▼	Additional Information ▼
					RTACAP ▼	MAP ▼	ICB ▼	TDC ▼	SCA ▼			
5307	MBTA	PREVENTIVE MAINTENANCE		\$ 12,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,000,000	\$ 15,000,000	
5307	MBTA	Systems Upgrades		\$ 58,685,516	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,671,379	\$ 73,356,895	
5307	CATA	PREVENTIVE MAINTENANCE	2017	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 500,000	
5307	CATA	ACQUIRE - SHOP EQ/SOFTWARE MAINT	2017	\$ 28,000	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000	
5307	CATA	ACQUIRE - MISC SUPPORT EQUIPMENT	2017	\$ 60,744	\$ 15,186	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,930	
5307	CATA	ACQUIRE - SHOP EQUIPMENT	2017	\$ 52,000	\$ 13,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 65,000	
5307	MWRTA	TERMINAL, INTERMODAL (TRANSIT)		\$ 150,000	\$ 37,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 187,500	
5307	MWRTA	ACQUISITION OF BUS SUPPORT EQUIP/FACILITIES		\$ 248,519	\$ 62,104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 310,623	
5307	MWRTA	NON FIXED ROUTE ADA PARA SERV		\$ 1,300,000	\$ -	\$ -	\$ -	\$ -	\$ 325,000	\$ -	\$ 1,625,000	
5307	MWRTA	Mobility Management		\$ 25,000	\$ 6,250	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,250	
5307 Subtotal ►				\$ 72,949,779	\$ 141,040	\$ -	\$ -	\$ -	\$ 325,000	\$ 17,771,379	\$ 91,187,198	
5337	MBTA	Bridge & Tunnel Program		\$ 60,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,000,000	\$ 75,000,000	
5337	MBTA	Systems Upgrades		\$ 61,190,546	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,297,637	\$ 76,488,183	
5337 Subtotal ►				\$ 121,190,546	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,297,637	\$ 151,488,183	
5339	MBTA	Systems Upgrades		\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	
5339 Subtotal ►				\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	

2018 Boston Region MPO Transportation Improvement Program

FTA Program ▼	Regional Transit Authority ▼	Project Description ▼	Carryover or Earmark Details ▼	Federal Funds ▼	State Match Sources					Local Funds ▼	Total Cost ▼	Additional Information ▼
					RTACAP ▼	MAP ▼	ICB ▼	TDC ▼	SCA ▼			
5310		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
5310 Subtotal ▶				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
5309	MBTA	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	\$ 150,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 195,558,000	\$ 345,558,000	The Green Line Extension project received a New Starts Full Funding Grant Agreement in FFY 2015. The cash flows for the project begin programming New Starts funding in FFY 2015 and program \$150 million in New Starts in FFY 2018. \$1,270,262,000 of the \$1,992,243,000 project cost is programmed in FFYs 2016-19.
5309 Subtotal ▶				\$ 150,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 195,558,000	\$ 345,558,000	
SoGR		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Livability		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TIGER		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Grants Subtotal ▶				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other	CATA	BUY REPLACEMENT TROLLEY BUS (2)		\$ -	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 900,000	
Other Subtotal ▶				\$ -	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 900,000	
Total ▶				\$ 349,427,352	\$ 1,041,040	\$ -	\$ -	\$ -	\$ 325,000	\$ 244,948,773	\$ 595,742,165	

Fiscal Constraint Analysis

Federal Funding Source ▼	Programmed ▼	Available ▼	(+/-) ▼	State Funding Source ▼	Programmed ▼	Available ▼	(+/-) ▼
FFY 17 / 5307	\$ 72,949,779	\$ 136,938,027	\$ 63,988,248 Available	RTACAP	\$ 1,041,040	\$ 1,041,040	\$ - Available
FFY 17 / 5337	\$ 121,190,546	\$ 121,190,546	\$ - Available	MAP	\$ -	\$ -	\$ - Available
FFY 17 / 5339	\$ 5,287,027	\$ 5,287,027	\$ - Available	ITCCAP	\$ -	\$ -	\$ - Available
FFY 17 / 5310	\$ -	\$ -	\$ - Available	SCA	\$ 325,000	\$ 3,234,526	\$ 2,909,526 Available
FFY 17 / 5309	\$ 150,000,000	\$ 150,000,000	\$ - Available	TDC	\$ -	\$ -	\$ - Available

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Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► Section 1A / Federal Aid Target Projects

- Indicates a change in project cost
- Indicates removed from TIP (cost not reflected in total)
- Indicates a project moved in from another TIP element
- Indicates a project moved out to another TIP element (cost not reflected in total)
- Indicates a new addition to the TIP (action taken as denoted)
- Indicates a new funding category

► HSIP - Highway Safety Improvement Program

	606043	HOPKINTON- SIGNAL & INTERSECTION IMPROVEMENTS ON ROUTE 135	3	HSIP	\$ 1,220,822	\$ 1,098,740	\$ 122,082	CMAQ+HSIP+STP Total Cost = \$8,138,816
	607428	HOPEDALE- MILFORD- RESURFACING & INTERSECTION IMPROVEMENTS ON ROUTE 16 (MAIN STREET), FROM WATER STREET WEST TO APPROXIMATELY 120 FEET WEST OF THE MILFORD/HOPEDALE T.L AND THE INTERSECTION OF ROUTE 140	3	HSIP	\$ 2,362,214	\$ 2,125,993	\$ 236,221	CMAQ+HSIP Total Cost = \$3,149,619
	607652	EVERETT- RECONSTRUCTION OF FERRY STREET, SOUTH FERRY STREET AND A PORTION OF ELM STREET	4	HSIP	\$ 2,000,000	\$ 1,800,000	\$ 200,000	STP+HSIP Total Cost = \$7,244,124
HSIP Subtotal ►					\$ 5,583,037	\$ 5,024,733	\$ 558,304	◀ 90% Federal + 10% Non-Federal

► CMAQ - Congestion Mitigation and Air Quality Improvement Program

	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	CMAQ	\$ 13,427,220	\$ 10,741,776	\$ 2,685,444	Yr 4 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP)
	605034	NATICK- RECONSTRUCTION OF ROUTE 27 (NORTH MAIN STREET), FROM NORTH AVENUE TO THE WAYLAND T.L.	3	CMAQ	\$ 1,000,000	\$ 800,000	\$ 400,000	CMAQ+STP Total Cost = \$14,725,286
	606043	HOPKINTON- SIGNAL & INTERSECTION IMPROVEMENTS ON ROUTE 135	3	CMAQ	\$ 1,000,000	\$ 800,000	\$ 200,000	CMAQ+HSIP+STP Total Cost = \$8,138,816
	606453	BOSTON- IMPROVEMENTS ON BOYLSTON STREET, FROM INTERSECTION OF BROOKLINE AVENUE & PARK DRIVE TO IPSWICH STREET	6	CMAQ	\$ 1,824,765	\$ 1,459,812	\$ 364,953	STP+CMAQ+TAP Total Cost = \$7,373,484
	607428	HOPEDALE- MILFORD- RESURFACING & INTERSECTION IMPROVEMENTS ON ROUTE 16 (MAIN STREET), FROM WATER STREET WEST TO APPROXIMATELY 120 FEET WEST OF THE MILFORD/HOPEDALE T.L AND THE INTERSECTION OF ROUTE 140	3	CMAQ	\$ 787,405	\$ 629,924	\$ 157,481	CMAQ+HSIP Total Cost = \$3,149,619
CMAQ Subtotal ►					\$ 18,039,390	\$ 14,431,512	\$ 3,807,878	◀ 80% Federal + 20% Non-Federal

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Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► TAP - Transportation Alternatives Program

	606453	BOSTON- IMPROVEMENTS ON BOYLSTON STREET, FROM INTERSECTION OF BROOKLINE AVENUE & PARK DRIVE TO IPSWICH STREET	6	TAP	\$ 2,548,719	\$ 2,038,975	\$ 509,744	STP+CMAQ+TAP Total Cost = \$7,373,484
TAP Subtotal ►					\$ 2,548,719	\$ 2,038,975	\$ 509,744	◀ 80% Federal + 20% Non-Federal

► Non-CMAQ/HSIP/TAP (Other)

	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	STP	\$ 26,572,780	\$ 21,258,224	\$ 5,314,556	Yr 4 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP)
	601630	WEYMOUTH- ABINGTON- RECONSTRUCTION & WIDENING ON ROUTE 18 (MAIN STREET) FROM HIGHLAND PLACE TO ROUTE 139 (4.0 MILES) INCLUDES REPLACING W-32-013, ROUTE 18 OVER THE OLD COLONY RAILROAD (MBTA)	6	STP	\$ 6,600,000	\$ 5,280,000	\$ 1,320,000	AC Yr 4 of 4; STP+HSIP+TEA-21 Earmark Total Cost = \$60,053,518
	602077	LYNN- RECONSTRUCTION ON ROUTE 129 (LYNNFIELD STREET), FROM GREAT WOODS ROAD TO WYOMA SQUARE	4	STP	\$ 3,889,305	\$ 3,111,444	\$ 777,861	
	605034	NATICK- RECONSTRUCTION OF ROUTE 27 (NORTH MAIN STREET), FROM NORTH AVENUE TO THE WAYLAND T.L.	3	STP	\$ 13,725,286	\$ 10,980,229	\$ 2,745,057	CMAQ+STP Total Cost = \$14,725,286
	606453	BOSTON- IMPROVEMENTS ON BOYLSTON STREET, FROM INTERSECTION OF BROOKLINE AVENUE & PARK DRIVE TO IPSWICH STREET	6	STP	\$ 3,000,000	\$ 2,400,000	\$ 600,000	STP+CMAQ+TAP Total Cost = \$7,373,484
	606043	HOPKINTON- SIGNAL & INTERSECTION IMPROVEMENTS ON ROUTE 135	3	STP	\$ 5,917,993	\$ 4,734,395	\$ 1,183,599	CMAQ+HSIP+STP Total Cost = \$8,138,816
	607652	EVERETT- RECONSTRUCTION OF FERRY STREET, SOUTH FERRY STREET AND A PORTION OF ELM STREET	4	STP	\$ 5,244,124	\$ 4,195,299	\$ 1,048,825	STP+HSIP Total Cost = \$7,244,124
Non-CMAQ/HSIP/TAP (Other) Subtotal ►					\$ 64,949,489	\$ 51,959,591	\$ 12,989,898	◀ 80% Federal + 20% Non-Federal

► Section 1A / Fiscal Constraint Analysis

Total Federal Aid Target Funds Programmed ►	\$ 91,120,634	\$ 92,626,333	◀ Total Target	\$ 1,505,699	Target Funds Available
Total Non-CMAQ/HSIP/TAP (Other) Programmed ►	\$ 64,949,489	\$ 72,353,684	◀ Max. Non-CMAQ/HSIP/TAP	\$ 1,505,699	Non-CMAQ/HSIP/TAP (Other) Available
Total HSIP Programmed ►	\$ 5,583,037	\$ 4,296,710	◀ Min. HSIP	\$ (1,286,327)	HSIP Minimum Met
Total CMAQ Programmed ►	\$ 18,039,390	\$ 13,427,220	◀ Min. CMAQ	\$ (4,612,170)	CMAQ Minimum Met
Total TAP Programmed ►	\$ 2,548,719	\$ 2,548,719	◀ Min. TAP	\$ -	TAP Minimum Met

HSIP, CMAQ, TAP Overprogrammed \$ (5,898,497)

► Section 1B / Federal Aid Bridge Projects

► Statewide Bridge Maintenance Program

	No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Bridge Maintenance Program Subtotal ►				\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

2019 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► On System

AMENDMENT:Change Additional Information	604173	BOSTON- BRIDGE REHABILITATION, B-16-016, NORTH WASHINGTON STREET OVER THE CHARLES RIVER	6	NHPP	\$ 34,504,000	\$ 27,603,200	\$ 6,900,800	AC Yr 3 of 4; Total Cost = \$112,700,000; was \$117,208,000
	604952	LYNN- SAUGUS- BRIDGE REPLACEMENT, L-18- 016=S-05-008, ROUTE 107 OVER THE SAUGUS RIVER (AKA - BELDEN G. BLY BRIDGE)	4	NHPP	\$ 12,800,000	\$ 10,240,000	\$ 2,560,000	AC Yr 3 of 4; Total Cost = \$45,000,000

On System Subtotal ► \$ 47,304,000 \$ 37,843,200 \$ 9,460,800 ◀ 80% Federal + 20% Non-Federal

► Off-System

	608079	SHARON- BRIDGE REPLACEMENT, S-09-003 (40N), MASKWONICUT STREET OVER AMTRAK/MBTA	5	STP-BR-OFF	\$ 4,755,240	\$ 3,804,192	\$ 951,048	
	608255	STOW, BRIDGE REPLACEMENT, S-29-11, BOX MILL ROAD OVER ELIZABETH BROOK	3	STP-BR-OFF	\$ 3,612,224	\$ 2,889,779	\$ 722,445	

Off-System Subtotal ► \$ 8,367,464 \$ 6,693,971 \$ 1,673,493 ◀ 80% Federal + 20% Non-Federal

► Statewide Bridge Inspection Program

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Bridge Inspection Program Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Section 1C / Federal Aid Non-Target Projects

► Other Federal Aid

		No Projects Programmed			\$ -	\$ -	\$ -	
Other Federal Aid Subtotal ►					\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

► Section 1D / Federal Aid Major & State Category Projects

► Statewide Infrastructure Program

	606381	ARLINGTON- BELMONT- HIGHWAY LIGHTING REPAIR & MAINTENANCE ON ROUTE 2	4	STP	\$ 3,700,000	\$ 2,960,000	\$ 740,000	AC Year 2 of 2; Total Cost = \$9,450,000
Statewide Infrastructure Program Subtotal ►					\$ 3,700,000	\$ 2,960,000	\$ 740,000	◀ 80% Federal + 20% Non-Federal

2019 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
► Statewide HSIP Program								
	608205	READING TO LYNNFIELD - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 95 (STATE ROUTE 128)	4	HSIP	\$ 3,500,000	\$ 3,150,000	\$ 350,000	
	608206	CHELSEA TO DANVERS - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 1	4	HSIP	\$ 5,900,000	\$ 5,310,000	\$ 590,000	
	607759	BOSTON- INTERSECTION & SIGNAL IMPROVEMENTS AT THE VFW PARKWAY & SPRING STREET	6	HSIP	\$ 550,000	\$ 495,000	\$ 55,000	
	608052	NORWOOD- INTERSECTION & SIGNAL IMPROVEMENTS AT US 1 (PROVIDENCE HIGHWAY) & MORSE STREET	5	HSIP	\$ 550,000	\$ 495,000	\$ 55,000	
	607763	MILTON- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 138 (BLUE HILL AVENUE) AT ATHERTON STREET & BRADLEE ROAD AND SR 138 (BLUE HILL AVENUE) AT MILTON STREET & DOLLAR LANE	6	HSIP	\$ 1,100,000	\$ 990,000	\$ 110,000	
Statewide HSIP Program Subtotal ►					\$ 11,600,000	\$ 10,440,000	\$ 1,160,000	◀ 90% Federal + 10% Non-Federal
► Statewide Safe Routes to Schools Program								
		No Projects Programmed			\$ -	\$ -	\$ -	Funding Split Varies by Funding Source
Statewide Safe Routes to Schools Program Subtotal ►					\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source
► Statewide CMAQ								
	607888	BOSTON- BROOKLINE- MULTI-USE PATH CONSTRUCTION ON NEW FENWAY	6	CMAQ	\$ 1,915,213	\$ 1,532,170	\$ 383,043	
Statewide CMAQ ►					\$ 1,915,213	\$ 1,532,170	\$ 383,043	◀ 80% Federal + 20% Non-Federal
► Statewide Transportation Enhancements								
		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Transportation Enhancements Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Statewide ITS								
		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide ITS Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Statewide Interstate Maintenance Program								
	608208	QUINCY - MILTON - BOSTON - INTERSTATE MAINTENANCE AND RELATED WORK ON I-93	6	NHPP	\$ 22,287,462	\$ 20,058,716	\$ 2,228,746	
	608210	FOXBOROUGH-PLAINVILLE-WRENTHAM-FRANKLIN-INTERSTAE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 29,392,384	\$ 26,453,146	\$ 2,939,238	
Statewide Interstate Maintenance Program Subtotal ►					\$ 51,679,846	\$ 46,511,862	\$ 5,167,985	◀ 90% Federal + 10% Non-Federal
► Statewide NHS Preservation Program+								
	608221	MARLBORO RESURFACING AND RELATED WORK ON ROUTE 20	3	NHPP	\$ 6,126,938	\$ 4,901,550	\$ 1,225,388	
Statewide NHS Preservation Program Subtotal ►					\$ 6,126,938	\$ 4,901,550	\$ 1,225,388	◀ 80% Federal + 20% Non-Federal

2019 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► **Statewide RR Grade Crossings**

		No Projects Programmed			\$ -	-	-	
Statewide RR Grade Crossings Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► **Statewide Stormwater Retrofits**

	608213	MILTON - STORMWATER IMPROVEMENTS ALONG I-93	6	STP-TE	\$ 560,000	\$ 448,000	\$ 112,000	
	608214	WINCHESTER - UPPER MYSTIC RIVER ROUTE 3	4	STP-TE	\$ 224,000	\$ 179,200	\$ 44,800	
Statewide Stormwater Retrofits Subtotal ►					\$ 784,000	\$ 627,200	\$ 156,800	◀ 80% Federal + 20% Non-Federal

► **Statewide ADA Implementation Plan**

		No Projects Programmed			\$ -	-	-	
Statewide ADA Implementation Plan Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► **Other Statewide Items**

		ABP GANS Repayment			\$ -	-	-	
		Award Adjustments, Change Orders, Project Value Changes, Etc.			\$ -	-	-	
		DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs			\$ -	-	-	
		Planning			\$ -	-	-	
		Statewide Design and Right of Way			\$ -	-	-	
		Statewide Recreational Trails			\$ -	-	-	
Other Statewide Items Subtotal ►					\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

► **Section 2A / Non-Federal Projects**

► **Non Federal Aid**

	1568	FAIRMOUNT IMPROVEMENTS	N/A	NFA	\$ 5,328,200		\$ 5,328,200	Lists cash flows (based on state fiscal year)
Non-Federal Aid Subtotal ►					\$ 5,328,200		\$ 5,328,200	◀ 100% Non-Federal

► **Section 2B / Non-Federal Bridge Projects**

► **Section 2B / Non-Federal Bridge Projects**

		No Projects Programmed		NFA	\$ -		\$ -	
Section 2B / Non-Federal Bridge Projects Subtotal ►					\$ -		\$ -	◀ 100% Non-Federal

2019 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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2019 Boston Region MPO TIP Summary

	TIP Section 1: ▼	TIP Section 2: ▼	Total of All Projects ▼	
Total ▶	\$ 222,798,095	\$ 5,328,200	\$ 228,126,295	◀ Total Spending in Region
Federal Funds ▶	\$ 184,964,765		\$ 184,964,765	◀ Total Federal Spending in Region
Non-Federal Funds ▶	\$ 37,833,331	\$ 5,328,200	\$ 43,161,531	◀ Total Non-Federal Spending in Region

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road. The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Awarding Authority. For all projects contained in the TIP, the Commonwealth is the Awarding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00, and the Road Flagger and Police Detail Guidelines. By placing a project on the TIP, the Municipality acknowledges that 701 CMR 7.00 is applicable to its project and design and construction will be fully compliant with this Regulation. This information, and additional information relative to guidance and implementation of the Regulation can be found at the following link on the MassDOT Highway Division website: <http://www.massdot.state.ma.us/Highway/flaggers/main.aspx>

2019 Boston Region MPO Transportation Improvement Program

FTA Program ▼	Regional Transit Authority ▼	Project Description ▼	Carryover or Earmark Details ▼	Federal Funds ▼	State Match Sources					Local Funds ▼	Total Cost ▼	Additional Information ▼
					RTACAP ▼	MAP ▼	ICB ▼	TDC ▼	SCA ▼			
5307	MBTA	PREVENTIVE MAINTENANCE		\$ 12,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,000,000	\$ 15,000,000	
5307	MBTA	Systems Upgrades		\$ 58,685,516	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,671,379	\$ 73,356,895	
5307	CATA	PREVENTIVE MAINTENANCE	2018	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 500,000	
5307	CATA	ACQUIRE - SHOP EQ/COMPUTER/SFTWR	2018	\$ 44,000	\$ 11,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,000	
5307	CATA	ACQUIRE - MISC SUPPORT EQUIPMENT	2018	\$ 102,152	\$ 25,538	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 127,690	
5307	MWRTA	INTERMODAL (TRANSIT): Facil. Improvements		\$ 150,000	\$ 37,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 187,500	
5307	MWRTA	ACQUISITION OF BUS SUPPORT EQUIP/FACILITIES		\$ 248,415	\$ 62,104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 310,519	
5307	MWRTA	NON FIXED ROUTE ADA PARA SERV		\$ 130,000	\$ -	\$ -	\$ -	\$ -	\$ 325,000	\$ -	\$ 455,000	
5307	MWRTA	Mobility Management		\$ 25,000	\$ 6,250	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,250	
5307 Subtotal ►				\$ 71,785,083	\$ 142,392	\$ -	\$ -	\$ -	\$ 325,000	\$ 17,771,379	\$ 90,023,854	
5337	MBTA	Bridge & Tunnel Program		\$ 60,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,000,000	\$ 75,000,000	
5337	MBTA	Systems Upgrades		\$ 61,190,546	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,297,637	\$ 76,488,183	
5337 Subtotal ►				\$ 121,190,546	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,297,637	\$ 151,488,183	
5339	MBTA	Systems Upgrades		\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	
5339 Subtotal ►				\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	

2019 Boston Region MPO Transportation Improvement Program

FTA Program ▼	Regional Transit Authority ▼	Project Description ▼	Carryover or Earmark Details ▼	Federal Funds ▼	State Match Sources					Local Funds ▼	Total Cost ▼	Additional Information ▼
					RTACAP ▼	MAP ▼	ICB ▼	TDC ▼	SCA ▼			
5310		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
5310 Subtotal ▶				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
5309	MBTA	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	\$ 150,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,196,000	\$ 176,196,000	The Green Line Extension project received a New Starts Full Funding Grant Agreement in FFY 2015. The cash flows for the project begin programming New Starts funding in FFY 2015 and program \$150 million in New Starts in FFY 2019. \$1,270,262,000 of the \$1,992,243,000 project cost is programmed in FFYs 2016-19.
5309 Subtotal ▶				\$ 150,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,196,000	\$ 176,196,000	
SoGR		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Livability		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TIGER		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Grants Subtotal ▶				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other Subtotal ▶				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total ▶				\$ 348,262,656	\$ 142,392	\$ -	\$ -	\$ -	\$ 325,000	\$ 75,586,773	\$ 424,316,821	

Fiscal Constraint Analysis

Federal Funding Source ▼	Programmed ▼	Available ▼	(+/-) ▼	State Funding Source ▼	Programmed ▼	Available ▼	(+/-) ▼
FFY 17 / 5307	\$ 71,785,083	\$ 136,938,027	\$ 65,152,944 Available	RTACAP	\$ 142,392	\$ 142,392	\$ - Available
FFY 17 / 5337	\$ 121,190,546	\$ 121,190,546	\$ - Available	MAP	\$ -	\$ -	\$ - Available
FFY 17 / 5339	\$ 5,287,027	\$ 5,287,027	\$ - Available	ITCCAP	\$ -	\$ -	\$ - Available
FFY 17 / 5310	\$ -	\$ -	\$ - Available	SCA	\$ 325,000	\$ 3,234,526	\$ 2,909,526 Available
FFY 17 / 5309	\$ 150,000,000	\$ 150,000,000	\$ - Available	TDC	\$ -	\$ -	\$ - Available

2020 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► Section 1A / Federal Aid Target Projects

- Indicates a change in project cost
- Indicates removed from TIP (cost not reflected in total)
- Indicates a project moved in from another TIP element
- Indicates a project moved out to another TIP element (cost not reflected in total)
- Indicates a new addition to the TIP (action taken as denoted)
- Indicates a new funding category

► HSIP - Highway Safety Improvement Program

	No Projects Programmed				\$ -	\$ -	\$ -	
HSIP Subtotal ►					\$ -	\$ -	\$ -	◀ 90% Federal + 10% Non-Federal

► CMAQ - Congestion Mitigation and Air Quality Improvement Program

	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	CMAQ	\$ 13,427,220	\$ 10,741,776	\$ 2,685,444	Yr 5 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP)
	602261	WALPOLE- RECONSTRUCTION ON ROUTE 1A (MAIN STREET) FROM THE NORWOOD T.L. TO ROUTE 27, INCLUDES W-03-024 OVER THE NEPONSET RIVER	5	CMAQ	\$ 2,000,000	\$ 1,600,000	\$ 400,000	STP+CMAQ Total Cost = \$18,584,373
	604123	ASHLAND- RECONSTRUCTION ON ROUTE 126 (POND STREET), FROM THE FRAMINGHAM T.L. TO THE HOLLISTON T.L.	3	CMAQ	\$ 2,000,000	\$ 1,600,000	\$ 400,000	STP+CMAQ+TAP Total Cost = \$15,532,405
CMAQ Subtotal ►					\$ 17,427,220	\$ 13,941,776	\$ 3,485,444	◀ 80% Federal + 20% Non-Federal

► TAP - Transportation Alternatives Program

	604123	ASHLAND- RECONSTRUCTION ON ROUTE 126 (POND STREET), FROM THE FRAMINGHAM T.L. TO THE HOLLISTON T.L.	3	TAP	\$ 2,548,719	\$ 2,038,975	\$ 509,744	STP+CMAQ+TAP Total Cost = \$15,532,405
TAP Subtotal ►					\$ 2,548,719	\$ 2,038,975	\$ 509,744	◀ 80% Federal + 20% Non-Federal

2020 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
► Non-CMAQ/HSIP/TAP (Other)								
	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	STP	\$ 26,572,780	\$ 21,258,224	\$ 5,314,556	Yr 5 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP)
	604996	WOBURN- BRIDGE REPLACEMENT, W-43-017, NEW BOSTON STREET OVER MBTA	4	STP	\$ 11,355,289	\$ 9,084,231	\$ 2,271,058	
	606226	BOSTON- RECONSTRUCTION OF RUTHERFORD AVENUE, FROM CITY SQUARE TO SULLIVAN SQUARE	6	STP	\$ 7,000,000	\$ 5,600,000	\$ 1,400,000	
	604123	ASHLAND- RECONSTRUCTION ON ROUTE 126 (POND STREET), FROM THE FRAMINGHAM T.L. TO THE HOLLISTON T.L.	3	STP	\$ 10,983,686	\$ 8,786,949	\$ 2,196,737	STP+CMAQ+TAP Total Cost = \$15,532,405
	602261	WALPOLE- RECONSTRUCTION ON ROUTE 1A (MAIN STREET) FROM THE NORWOOD T.L. TO ROUTE 27, INCLUDES W-03-024 OVER THE NEPONSET RIVER	5	STP	\$ 16,584,373	\$ 13,267,498	\$ 3,316,875	STP+CMAQ Total Cost = \$18,584,373
Non-CMAQ/HSIP/TAP (Other) Subtotal ►					\$ 72,496,128	\$ 57,996,902	\$ 14,499,226	◀ 80% Federal + 20% Non-Federal

► Section 1A / Fiscal Constraint Analysis

Total Federal Aid Target Funds Programmed ►	\$ 92,472,067	\$ 92,626,333	◀ Total Target	\$ 154,266	Target Funds Available
Total Non-CMAQ/HSIP/TAP (Other) Programmed ►	\$ 72,496,128	\$ 72,353,684	◀ Max. Non-CMAQ/HSIP/TAP	\$ (142,444)	Non-CMAQ/HSIP/TAP (Other) Exceeds Maximum
Total HSIP Programmed ►	\$ -	\$ 4,296,710	◀ Min. HSIP	\$ 4,296,710	HSIP Minimum Not Met
Total CMAQ Programmed ►	\$ 17,427,220	\$ 13,427,220	◀ Min. CMAQ	\$ (4,000,000)	CMAQ Minimum Met
Total TAP Programmed ►	\$ 2,548,719	\$ 2,548,719	◀ Min. TAP	\$ -	TAP Minimum Met

Remaining HSIP, CMAQ, and TAP Funds \$ 296,710

► Section 1B / Federal Aid Bridge Projects

► Statewide Bridge Maintenance Program

No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Bridge Maintenance Program Subtotal ►			\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► On System

No Projects Programmed			\$ -	\$ -	\$ -	
On System Subtotal ►			\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Off-System

No Projects Programmed			\$ -	\$ -	\$ -	
Off-System Subtotal ►			\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Statewide Bridge Inspection Program

No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Bridge Inspection Program Subtotal ►			\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

2020 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► Section 1C / Federal Aid Non-Target Projects

► Other Federal Aid

		No Projects Programmed			\$ -	\$ -	\$ -	
Other Federal Aid Subtotal ►					\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

► Section 1D / Federal Aid Major & State Category Projects

► Statewide Infrastructure Program

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Infrastructure Program Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Statewide HSIP Program

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide HSIP Program Subtotal ►					\$ -	\$ -	\$ -	◀ 90% Federal + 10% Non-Federal

► Statewide Safe Routes to Schools Program

		No Projects Programmed			\$ -	\$ -	\$ -	Funding Split Varies by Funding Source
Statewide Safe Routes to Schools Program Subtotal ►					\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

► Statewide CMAQ

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide CMAQ ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Statewide Transportation Enhancements

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Transportation Enhancements Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Statewide ITS

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide ITS Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Statewide Interstate Maintenance Program

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Interstate Maintenance Program Subtotal ►					\$ -	\$ -	\$ -	◀ 90% Federal + 10% Non-Federal

► Statewide NHS Preservation Program+

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide NHS Preservation Program Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Statewide RR Grade Crossings

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide RR Grade Crossings Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► Statewide Stormwater Retrofits

		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Stormwater Retrofits Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

2020 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed
11/19/2015 Draft Amendment One

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
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► **Statewide ADA Implementation Plan**

		No Projects Programmed			\$ -	-	-	
Statewide ADA Implementation Plan Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal

► **Other Statewide Items**

		ABP GANS Repayment			\$ -	-	-	
		Award Adjustments, Change Orders, Project Value Changes, Etc.			\$ -	-	-	
		DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs			\$ -	-	-	
		Planning			\$ -	-	-	
		Statewide Design and Right of Way			\$ -	-	-	
		Statewide Recreational Trails			\$ -	-	-	
Other Statewide Items Subtotal ►					\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

► **Section 2A / Non-Federal Projects**

► **Non Federal Aid**

		No Projects Programmed		NFA	\$ -		\$ -	
Non-Federal Aid Subtotal ►					\$ -		\$ -	◀ 100% Non-Federal

► **Section 2B / Non-Federal Bridge Projects**

► **Section 2B / Non-Federal Bridge Projects**

		No Projects Programmed		NFA	\$ -		\$ -	
Section 2B / Non-Federal Bridge Projects Subtotal ►					\$ -		\$ -	◀ 100% Non-Federal

2020 Boston Region MPO TIP Summary

	TIP Section 1: ▼	TIP Section 2: ▼	Total of All Projects ▼	
Total ►	\$ 92,472,067	\$ -	\$ 92,472,067	◀ Total Spending in Region
Federal Funds ►	\$ 73,977,654		\$ 73,977,654	◀ Total Federal Spending in Region
Non-Federal Funds ►	\$ 18,494,413	\$ -	\$ 18,494,413	◀ Total Non-Federal Spending in Region

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road. The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Awarding Authority. For all projects contained in the TIP, the Commonwealth is the Awarding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00, and the Road Flagger and Police Detail Guidelines. By placing a project on the TIP, the Municipality acknowledges that 701 CMR 7.00 is applicable to its project and design and construction will be fully compliant with this Regulation. This information, and additional information relative to guidance and implementation of the Regulation can be found at the following link on the MassDOT Highway Division website: <http://www.massdot.state.ma.us/Highway/flaggers/main.aspx>