





# 2016 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed  
06/16/2016 Action on Amendment Four

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

	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	\$ 8,549,748	\$ 6,839,798	\$ 1,709,950	
On System Subtotal ►					\$ 56,546,948	\$ 45,237,558	\$ 11,309,390	◀ 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
	1729	WINTHROP- COMMUTER FERRY TO BOSTON	6	HPP	\$ 109,075	\$ 87,260	\$ 21,815	FBD Grant (Pre-MAP-21 23 U.S.C 147); Total Cost = \$109,075; Equipment Expenses Only; Local match provided by Town of Winthrop
Other Federal Aid Subtotal ►					\$ 8,709,075	\$ 6,967,260	\$ 1,741,815	◀ 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	\$ 1,100,000	\$ 990,000	\$ 110,000	
Statewide HSIP Program Subtotal ►					\$ 1,100,000	\$ 990,000	\$ 110,000	◀ 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 ►					\$ 2,919,333	\$ 2,335,466	\$ 583,867	◀ 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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<b>► Statewide ITS</b>								
		No Projects Programmed			\$ -	-	-	
Statewide ITS Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
<b>► Statewide Interstate Maintenance Program</b>								
		No Projects Programmed			\$ -	-	-	
Statewide Interstate Maintenance Program Subtotal ►					\$ -	\$ -	\$ -	◀ 90% Federal + 10% Non-Federal
<b>► Statewide NHS Preservation Program+</b>								
	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	
	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
<b>► Statewide RR Grade Crossings</b>								
		No Projects Programmed			\$ -	-	-	
Statewide RR Grade Crossings Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
<b>► Statewide Stormwater Retrofits</b>								
	608059	SALEM - STORMWATER IMPROVEMENTS ALONG ROUTE 107 (SALEM BYPASS ROAD)	4	STP-TE	\$ 125,000	\$ 100,000	\$ 25,000	
Statewide Stormwater Retrofits Subtotal ►					\$ 125,000	\$ 100,000	\$ 25,000	◀ 80% Federal + 20% Non-Federal
<b>► Statewide ADA Implementation Plan</b>								
		No Projects Programmed			\$ -	-	-	
Statewide ADA Implementation Plan Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
<b>► Other Statewide Items</b>								
		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 ►	\$ 190,053,869	\$ 29,447,000	\$ 219,500,869	◀ Total Spending in Region
Federal Funds ►	\$ 152,513,095		\$ 152,513,095	◀ Total Federal Spending in Region
Non-Federal Funds ►	\$ 37,540,774	\$ 29,447,000	\$ 66,987,774	◀ 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	Bus Procurement Phase II		\$ 135,203,626	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,800,907	\$ 169,004,533	
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	
<b>5307 Subtotal ▶</b>				<b>\$ 148,961,682</b>	<b>\$ 114,515</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 325,000</b>	<b>\$ 36,800,907</b>	<b>\$ 186,202,104</b>	
5337	MBTA	Bridge & Tunnel Program		\$ 85,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,250,000	\$ 106,250,000	
5337	MBTA	Green Line Type 7 Selective Systems Overhaul		\$ 27,937,290	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,984,323	\$ 34,921,613	
5337	MBTA	Kawasaki Coaches		\$ 30,109,304	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,527,326	\$ 37,636,630	
5337	MBTA	Positive Train Control		\$ 60,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 94,846,578	\$ 154,846,578	
<b>5337 Subtotal ▶</b>				<b>\$ 203,046,594</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 130,608,227</b>	<b>\$ 333,654,821</b>	
5339	MBTA	Systems Upgrades		\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	
<b>5339 Subtotal ▶</b>				<b>\$ 5,287,027</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,321,757</b>	<b>\$ 6,608,784</b>	
5310		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>5310 Subtotal ▶</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	

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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 cash flows began programming New Starts funding in FFY 2015. \$1,270,262,000 of the \$1,992,243,000 project cost is programmed in FFYs 2016-19, and the remaining funding will be included in future years of the TIP.
<b>5309 Subtotal ►</b>				<b>\$ 150,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 217,838,000</b>	<b>\$367,838,000</b>	

<b>SoGR</b>	No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Livability</b>	No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>TIGER</b>	No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Grants Subtotal ►</b>			<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	

<b>Other</b>	CATA	BUY REPLACEMENT 30-FT BUS (4)	N/A	\$ -	\$ 800,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 800,000	
<b>Other</b>	CATA	SHOP EQ/SOFTWARE MAINT - Match for FY15	N/A	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000	
<b>Other</b>	CATA	FACILITY - Match for FY15	N/A	\$ -	\$ 15,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,600	
<b>Other</b>	CATA	SUPPORT EQUIP - Match for FY15	N/A	\$ -	\$ 4,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,176	
<b>Other</b>	MWRTA	REHAB/RENOVATE - BUS TERMINAL	N/A	\$ -	\$ 970,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 970,000	
<b>Other Subtotal ►</b>				<b>\$ -</b>	<b>\$ 1,799,776</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,799,776</b>	
<b>Total ►</b>				<b>\$ 507,295,303</b>	<b>\$ 1,914,291</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 325,000</b>	<b>\$ 386,568,890</b>	<b>\$ 896,103,484</b>	

## Fiscal Constraint Analysis

Federal Funding Source ▼	Programmed ▼	Available ▼	(+/-) ▼	State Funding Source ▼	Programmed ▼	Available ▼	(+/-) ▼
FFY 16 / 5307	\$ 148,961,682	\$ 136,927,264	\$ (12,034,418) Over Programmed	RTACAP	\$ 1,914,291	\$ 1,999,792	\$ 85,501 Available
FFY 16 / 5337	\$ 203,046,594	\$ 121,190,546	\$ (81,856,048) Over Programmed	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

- Indicates a change in project cost
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- 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
AMENDMENT:Remove Project	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	CMAQ	\$ -	\$ -	\$ -	removed from TIP; Yr 2 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP); was \$13,427,220 in FFY 2017
AMENDMENT:Add Project	1570	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	CMAQ	\$ 13,427,220	\$ 10,741,776	\$ 2,685,444	funding flexed to FTA; match provided by local contributions; additional funding programmed for GLX in FFY 2017 (other funds under Transit - Section 5309)
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

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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)
AMENDMENT:Remove Project	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	STP	\$ -	\$ -	\$ -	removed from TIP; Yr 2 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP); was \$16,472,780 in FFY 2017
AMENDMENT:Add Project	1570	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	STP	\$ 16,472,780	\$ 13,178,224	\$ 3,294,556	funding flexed to FTA; match provided by local contributions; additional funding programmed for GLX in FFY 2017 (other funds under Transit - Section 5309)
	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  
06/16/2016 Action on Amendment Four

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

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

### ► On System

	<b>604173</b>	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
	<b>607954</b>	DANVERS - BRIDGE REPLACEMENT, D-03-018, ROUTE 128 OVER WATERS RIVER	4	NHPP	\$ 10,513,973	\$ 8,411,178	\$ 2,102,795	
	<b>606553</b>	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
	<b>604952</b>	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 ►					\$ 43,253,573	\$ 34,602,858	\$ 8,650,715	◀ 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

	<b>601630</b>	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  
06/16/2016 Action on Amendment Four

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 (SB)	6	NHPP	\$ 4,693,450	\$ 4,224,105	\$ 469,345	
Statewide Interstate Maintenance Program Subtotal ►					\$ 4,693,450	\$ 4,224,105	\$ 469,345	◀ 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

# 2017 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed  
06/16/2016 Action on Amendment Four

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**

		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**

	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

# 2017 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed  
06/16/2016 Action on Amendment Four

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 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 ►	\$ 161,137,444	\$ 21,574,800	\$ 182,712,244	◀ Total Spending in Region
Federal Funds ►	\$ 130,190,422		\$ 130,190,422	◀ Total Federal Spending in Region
Non-Federal Funds ►	\$ 30,947,023	\$ 21,574,800	\$ 52,521,823	◀ 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 ▼			

- 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	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	
<b>5307 Subtotal ►</b>				<b>\$ 72,944,321</b>	<b>\$ 139,702</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 325,000</b>	<b>\$ 17,771,379</b>	<b>\$ 91,180,402</b>	
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	
<b>5337 Subtotal ►</b>				<b>\$ 121,190,546</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 30,297,637</b>	<b>\$ 151,488,183</b>	
5339	MBTA	Systems Upgrades		\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	
<b>5339 Subtotal ►</b>				<b>\$ 5,287,027</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,321,757</b>	<b>\$ 6,608,784</b>	
5310		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>5310 Subtotal ►</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	

# 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 cash flows began programming New Starts funding in FFY 2015. \$1,270,262,000 of the \$1,992,243,000 project cost is programmed in FFYs 2016-19, and the remaining funding will be included in future years of the TIP.
<b>5309 Subtotal ▶</b>				<b>\$ 150,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 230,670,000</b>	<b>\$ 380,670,000</b>	
<b>SoGR</b>		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Livability</b>		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>TIGER</b>		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Grants Subtotal ▶</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	
<b>Other</b>	CATA	BUY REPLACEMENT 30-FT BUS (3)		\$ -	\$ 1,275,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,275,000	
<b>Other Subtotal ▶</b>				<b>\$ -</b>	<b>\$ 1,275,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,275,000</b>	
<b>Total ▶</b>				<b>\$ 349,421,894</b>	<b>\$ 1,414,702</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 325,000</b>	<b>\$ 280,060,773</b>	<b>\$ 631,222,369</b>	

### 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  
06/16/2016 Action on Amendment Four

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

AMENDMENT:Remove Project	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	CMAQ	\$ -	\$ -	\$ -	removed from TIP; Yr 3 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP); was \$13,427,220 in FFY 2018
AMENDMENT:Add Project	1570	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	CMAQ	\$ 13,427,220	\$ 10,741,776	\$ 2,685,444	funding flexed to FTA; match provided by local contributions; additional funding programmed for GLX in FFY 2018 (other funds under Transit - Section 5309)
	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  
06/16/2016 Action on Amendment Four

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
<b>► Non-CMAQ/HSIP/TAP (Other)</b>								
	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)
AMENDMENT:Remove Project	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	STP	\$ -	\$ -	\$ -	removed from TIP; Yr 3 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP); was \$26,572,780 in FFY 2018
AMENDMENT:Add Project	1570	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	STP	\$ 26,572,780	\$ 21,258,224	\$ 5,314,556	funding flexed to FTA; match provided by local contributions; additional funding programmed for GLX in FFY 2018 (other funds under Transit - Section 5309)
	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

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
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  
06/16/2016 Action on Amendment Four

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

# 2018 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed  
06/16/2016 Action on Amendment Four

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
<b>► Statewide Safe Routes to Schools Program</b>								
		No Projects Programmed			\$ -	\$ -	\$ -	Funding Split Varies by Funding Source
Statewide Safe Routes to Schools Program Subtotal ►					\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source
<b>► Statewide CMAQ</b>								
	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
<b>► Statewide Transportation Enhancements</b>								
		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Transportation Enhancements Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
<b>► Statewide ITS</b>								
		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide ITS Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
<b>► Statewide Interstate Maintenance Program</b>								
	608219	READING-WAKEFIELD- INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK ON I-95	4	NHPP	\$ 4,037,488	\$ 3,633,739	\$ 403,749	
Statewide Interstate Maintenance Program Subtotal ►					\$ 4,037,488	\$ 3,633,739	\$ 403,749	◀ 90% Federal + 10% Non-Federal
<b>► Statewide NHS Preservation Program+</b>								
	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
<b>► Statewide RR Grade Crossings</b>								
		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide RR Grade Crossings Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
<b>► Statewide Stormwater Retrofits</b>								
	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
	608217	MARLBOROUGH- SUDBURY- STORMWATER IMPROVEMENTS ALONG ROUTE 20	3	STP-TE	\$ 671,000	\$ 536,800	\$ 134,200	
Statewide Stormwater Retrofits Subtotal ►					\$ 887,000	\$ 709,600	\$ 177,400	◀ 80% Federal + 20% Non-Federal

# 2018 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed  
06/16/2016 Action on Amendment Four

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 ►	\$ 252,140,075	\$ 9,000,000	\$ 261,140,075	◀ Total Spending in Region
Federal Funds ►	\$ 202,613,928		\$ 202,613,928	◀ Total Federal Spending in Region
Non-Federal Funds ►	\$ 49,526,147	\$ 9,000,000	\$ 58,526,147	◀ 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 ▼			

- 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	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	
<b>5307 Subtotal ►</b>				<b>\$ 72,949,779</b>	<b>\$ 141,040</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 325,000</b>	<b>\$ 17,771,379</b>	<b>\$ 91,187,198</b>	
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	
<b>5337 Subtotal ►</b>				<b>\$ 121,190,546</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 30,297,637</b>	<b>\$ 151,488,183</b>	
5339	MBTA	Systems Upgrades		\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	
<b>5339 Subtotal ►</b>				<b>\$ 5,287,027</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,321,757</b>	<b>\$ 6,608,784</b>	
5310		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>5310 Subtotal ►</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	

# 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 ▼			
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 cash flows began programming New Starts funding in FFY 2015. \$1,270,262,000 of the \$1,992,243,000 project cost is programmed in FFYs 2016-19, and the remaining funding will be included in future years of the TIP.
<b>5309 Subtotal ►</b>				<b>\$ 150,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 195,558,000</b>	<b>\$ 345,558,000</b>	
SoGR		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Livability		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TIGER		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Grants Subtotal ►</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	
Other	CATA	BUY REPLACEMENT TROLLEY BUS (2)		\$ -	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 900,000	
<b>Other Subtotal ►</b>				<b>\$ -</b>	<b>\$ 900,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 900,000</b>	
<b>Total ►</b>				<b>\$ 349,427,352</b>	<b>\$ 1,041,040</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 325,000</b>	<b>\$ 244,948,773</b>	<b>\$ 595,742,165</b>	

## 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

# 2019 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed  
06/16/2016 Action on Amendment Four

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

AMENDMENT:Remove Project	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	CMAQ	\$ -	\$ -	\$ -	removed from TIP; Yr 4 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP); was \$13,427,220 in FFY 2019
AMENDMENT:Add Project	1570	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	CMAQ	\$ 13,427,220	\$ 10,741,776	\$ 2,685,444	funding flexed to FTA; match provided by local contributions; additional funding programmed for GLX in FFY 2019 (other funds under Transit - Section 5309)
	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



# 2019 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed  
06/16/2016 Action on Amendment Four

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)

AMENDMENT:Remove Project	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	STP	\$ -	\$ -	\$ -	removed from TIP; Yr 4 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP); was \$26,572,780 in FFY 2019
AMENDMENT:Add Project	1570	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	STP	\$ 26,572,780	\$ 21,258,224	\$ 5,314,556	funding flexed to FTA; match provided by local contributions; additional funding programmed for GLX in FFY 2019 (other funds under Transit - Section 5309)
	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)

# 2019 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed  
06/16/2016 Action on Amendment Four

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

	608234	BOSTON- RANDOLPH- BRIDGE PRESERVATION OF 3 BRIDGES: B-16-165, R-01-005 & R-01-007	6	NHPP	\$ 2,889,600	\$ 2,311,680	\$ 577,920	
Statewide Bridge Maintenance Program Subtotal ►					\$ 2,889,600	\$ 2,311,680	\$ 577,920	◀ 80% Federal + 20% Non-Federal

► On System

	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
	604952	LYNN- SAUGUS- BRIDGE REPLACEMENT, L-18-016=S-05-008, ROUTE 107 OVER THE SAUGUS RIVER (AKA - BELDEN G. BLY BRIDGE)	4	NHPP	\$ 10,800,000	\$ 8,640,000	\$ 2,160,000	AC Yr 3 of 4; Total Cost = \$45,000,000
On System Subtotal ►					\$ 45,304,000	\$ 36,243,200	\$ 9,060,800	◀ 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  
06/16/2016 Action on Amendment Four

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
<b>► Statewide HSIP Program</b>								
	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
<b>► Statewide Safe Routes to Schools Program</b>								
		No Projects Programmed			\$ -	\$ -	\$ -	Funding Split Varies by Funding Source
Statewide Safe Routes to Schools Program Subtotal ►					\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source
<b>► Statewide CMAQ</b>								
	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
<b>► Statewide Transportation Enhancements</b>								
		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide Transportation Enhancements Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
<b>► Statewide ITS</b>								
		No Projects Programmed			\$ -	\$ -	\$ -	
Statewide ITS Subtotal ►					\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
<b>► Statewide Interstate Maintenance Program</b>								
	608208	QUINCY - MILTON - BOSTON - INTERSTATE MAINTENANCE AND RELATED WORK ON I-93	6	NHPP	\$ 21,491,482	\$ 19,342,334	\$ 2,149,148	IM+Stormwater Total Cost = \$22,051,482
	608210	FOXBOROUGH-PLAINVILLE-WRENTHAM-FRANKLIN-INTERSTAE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 24,468,480	\$ 22,021,632	\$ 2,446,848	
Statewide Interstate Maintenance Program Subtotal ►					\$ 45,959,962	\$ 41,363,966	\$ 4,595,996	◀ 90% Federal + 10% Non-Federal
<b>► Statewide NHS Preservation Program+</b>								
	608379	LEXINGTON- BELMONT- ARLINGTON- CAMBRIDGE- PAVEMENT PRESERVATION ON ROUTE 2	4	NHPP	\$ 5,400,000	\$ 4,320,000	\$ 1,080,000	NHSP+Stormwater Total Cost = \$6,600,000
Statewide NHS Preservation Program Subtotal ►					\$ 5,400,000	\$ 4,320,000	\$ 1,080,000	◀ 80% Federal + 20% Non-Federal

# 2019 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed  
06/16/2016 Action on Amendment Four

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**

	608208	QUINCY - MILTON - BOSTON - INTERSTATE MAINTENANCE AND RELATED WORK ON I-93	6	STP-TE	\$ 560,000	\$ 448,000	\$ 112,000	IM+Stormwater Total Cost = \$22,051,482
	608379	LEXINGTON- BELMONT- ARLINGTON- CAMBRIDGE- PAVEMENT PRESERVATION ON ROUTE 2	4	STP-TE	\$ 1,200,000	\$ 960,000	\$ 240,000	NHSP+Stormwater Total Cost = \$6,600,000
	608214	WINCHESTER - UPPER MYSTIC RIVER ROUTE 3	4	STP-TE	\$ 224,000	\$ 179,200	\$ 44,800	
Statewide Stormwater Retrofits Subtotal ►					\$ 1,984,000	\$ 1,587,200	\$ 396,800	◀ 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  
06/16/2016 Action on Amendment Four

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 ▶	\$ 218,440,873	\$ 5,328,200	\$ 223,769,073	◀ Total Spending in Region
Federal Funds ▶	\$ 180,906,999		\$ 180,906,999	◀ Total Federal Spending in Region
Non-Federal Funds ▶	\$ 37,533,875	\$ 5,328,200	\$ 42,862,075	◀ 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	
<b>5307 Subtotal ►</b>				<b>\$ 71,785,083</b>	<b>\$ 142,392</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 325,000</b>	<b>\$ 17,771,379</b>	<b>\$ 90,023,854</b>	
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	
<b>5337 Subtotal ►</b>				<b>\$ 121,190,546</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 30,297,637</b>	<b>\$ 151,488,183</b>	
5339	MBTA	Systems Upgrades		\$ 5,287,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,321,757	\$ 6,608,784	
<b>5339 Subtotal ►</b>				<b>\$ 5,287,027</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,321,757</b>	<b>\$ 6,608,784</b>	
5310		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>5310 Subtotal ►</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	

# 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 ▼			
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 cash flows began programming New Starts funding in FFY 2015. \$1,270,262,000 of the \$1,992,243,000 project cost is programmed in FFYs 2016-19, and the remaining funding will be included in future years of the TIP.
<b>5309 Subtotal ►</b>				<b>\$ 150,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 26,196,000</b>	<b>\$ 176,196,000</b>	
SoGR		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Livability		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TIGER		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Grants Subtotal ►</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	
Other		No Projects Programmed	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Other Subtotal ►</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	
<b>Total ►</b>				<b>\$ 348,262,656</b>	<b>\$ 142,392</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 325,000</b>	<b>\$ 75,586,773</b>	<b>\$ 424,316,821</b>	

## 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	\$ -		

# 2020 Boston Region MPO Transportation Improvement Program

07/30/2015 Endorsed  
06/16/2016 Action on Amendment Four

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

AMENDMENT:Remove Project	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	CMAQ	\$ -	\$ -	\$ -	removed from TIP; Yr 5 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP); was \$13,427,220 in FFY 2020
AMENDMENT:Add Project	1570	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	CMAQ	\$ 13,427,220	\$ 10,741,776	\$ 2,685,444	funding flexed to FTA; match provided by local contributions; additional funding programmed for GLX in FFY 2020 (other funds under Transit - Section 5309)
	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  
06/16/2016 Action on Amendment Four

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)

AMENDMENT:Remove Project	1569	GREEN LINE EXTENSION PROJECT (PHASE 2), COLLEGE AVENUE TO MYSTIC VALLEY PARKWAY/ROUTE 16	N/A	STP	\$ -	\$ -	\$ -	removed from TIP; Yr 5 of 6; CMAQ+STP Total Cost = \$190,100,000 (\$158,000,000 programmed within FFYs 2016-20 TIP); was \$26,572,780 in FFY 2020
AMENDMENT:Add Project	1570	GREEN LINE EXTENSION PROJECT- EXTENSION TO COLLEGE AVENUE WITH THE UNION SQUARE SPUR	N/A	STP	\$ 26,572,780	\$ 21,258,224	\$ 5,314,556	funding flexed to FTA; match provided by local contributions; additional funding programmed for GLX in FFY 2020 (other funds under Transit - Section 5309)
	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  
06/16/2016 Action on Amendment Four

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  
06/16/2016 Action on Amendment Four

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>