

TIP

Transportation Improvement Program



FYY 2018-2022

October 1, 2017 to September 30, 2018,

**METROPOLITAN PLANNING ORGANIZATION
PIONEER VALLEY REGION, MASSACHUSETTS**

Endorsed: May 23, 2017



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PREFACE

The Pioneer Valley Region

The Pioneer Valley Region is comprised of 43 cities and towns covering approximately 1,180 square miles. Home to over 626,000 residents, the Pioneer Valley is the fourth largest metropolitan area in New England. The map on the following page references the Pioneer Valley Region.

TIP Format and MPO Endorsement

The FFY 2018-2022 TIP has been prepared with completely separate components of the document that are subject to federal review and approval and components that are not. This distinction of a “federal component” was the firm position of the Massachusetts Department of Transportation (MassDOT) as a means to avoid potential problems with adequately satisfying federal financial constraint requirements with the non-federal aid component of the TIP. Although a non-federal component of the TIP is represented, it is understood that this component is not subject to Metropolitan Planning Final Rule 23 CMR 450 section 324, therefore federal review and approval is not required.

The non-federal component is provided for the benefit of the MPO and the constituent communities as a representation of an agreed upon listing of improvement projects to be undertaken entirely with state provided resources. All projects included in the Non Federal Aid (NFA) section of the TIP must be eligible to receive federal funds and be located on a functionally classified road. The separation of federal aid projects from non-federal aid projects by no means represents a lack of commitment by the state to fund all projects specifically programmed in the document. Assuming that adequate funds are available from federal and/or state sources, it can be fully expected that the following project listings can and will be implemented over the FFY 2018-2022 time frame. Pending federal guidance approving the inclusion of non-federal aid projects without secured bonded resources in each year, the TIP will be amended to reinstate all non-federal aid projects into the document endorsed for federal review and approval.

MassDOT Commitment to Funding all Designed and Permitted Projects

The MassDOT has committed to funding all transportation improvement projects that will be ready for advertisement in FFY 2018 and beyond. In response to this commitment, Pioneer Valley local officials in cooperation with regional and state officials from the MassDOT have made a concerted effort to develop a TIP project listing that is truly representative of the projects that will realistically be ready for advertisement in FFY 2018. Funding targets for the Pioneer Valley Region have been issued by MassDOT identifying potential resources for each year of the TIP.



I. GENERAL SUPPORT INFORMATION

INTRODUCTION

The Transportation Improvement Program (TIP) is a requirement of the Metropolitan Transportation Planning Process as described in the Metropolitan Planning Final Rule 23 CFR 450 section 324. This regulation developed by the Federal Department of Transportation defines the Transportation Improvement Program as:

“A staged, multiyear, intermodal program of transportation projects which is consistent with the metropolitan transportation plan.”

The Pioneer Valley TIP is a Five-year schedule of priority highway, bridge, transit, and multimodal projects identified by year and location complete with funding source and cost. The TIP is developed annually and is available for amendment and adjustment at any time. Each program year of the TIP coincides with the Federal Fiscal Year calendar, October 1 through September 30. All TIPs and amendments are consistent with the goals and objectives of the Regional Transportation Plan for the Pioneer Valley region. This TIP is financially constrained.

FEDERAL AUTHORIZATION

FAST Act, Fixing America’s Surface Transportation (Pub. L. No. 114-94), was signed into law on December 4, 2015. Funding surface transportation programs at over \$305 billion for fiscal years (FY) 2016 through 2020, FAST act replaced MAP-21 which was enacted in 2012. Under the FAST Act all Metropolitan Planning Organizations are required to incorporate ten planning factors. The ten planning factors are as follows:

1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
2. Increase the safety of the transportation system for motorized and non-motorized users.
3. Increase the security of the transportation system for motorized and non-motorized users.
4. Increase the accessibility and mobility of people and for freight.
5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
6. Enhance the integration and connectivity of the transportation system, across and between modes, people and freight.
7. Promote efficient system management and operation.
8. Emphasize the preservation of the existing transportation system.
9. Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.
10. Enhancing travel and tourism

The Moving Ahead for Progress in the 21st Century Act (MAP-21), enacted in 2012, included provisions to make the Federal surface transportation more streamlined, performance-based, and multimodal, and to address challenges facing the U.S. transportation system, including improving safety, maintaining infrastructure condition, reducing traffic congestion, improving efficiency of the

system and freight movement, protecting the environment, and reducing delays in project delivery. The FAST Act builds on the changes made by MAP-21.¹

The FAST Act specifically addresses all modes of transportation and enhances many of the existing provisions and programs defined in past transportation legislation.

National goal areas continue to be a priority under the FAST Act and address the following areas:

Safety—To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.

Infrastructure condition—To maintain the highway infrastructure asset system in a state of good repair.

Congestion reduction—To achieve a significant reduction in congestion on the NHS.

System reliability—To improve the efficiency of the surface transportation system.

Freight movement and economic vitality—To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.

Environmental sustainability—To enhance the performance of the transportation system while protecting and enhancing the natural environment.

Reduced project delivery delays—To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices

CONFORMITY WITH THE REGIONAL TRANSPORTATION PLAN

All projects in the TIP come from the 2016 Regional Transportation Plan (RTP). All regionally significant projects included in the TIP were previously included in the air quality analysis completed for the conforming RTP. Because projects in the TIP come from the conforming RTP and all regionally significant RTP projects for 2018 through 2022 (both Federal and Non-Federal Aid) are programmed in the TIP, the same air quality analysis utilized for the RTP can be used for the TIP. Since most all of Massachusetts (with limited exceptions) was designated on 5/21/12 by the United States Environmental Protection Agency as "unclassifiable/attainment" for the latest ozone standard, a conformity determination for the Pioneer Valley 2018-2022 TIP is only required for Carbon monoxide. Further details and background information are provided in Chapter 8.

¹ <https://www.fhwa.dot.gov/fastact/summary.cfm>

METROPOLITAN PLANNING ORGANIZATION

The Pioneer Valley Metropolitan Planning Organization (MPO) is responsible for developing the TIP. The MPO is comprised of ten members including four independently operating agencies and six locally elected officials:

Name	Title
Stephanie Pollack	Secretary and CEO of the Massachusetts Department of Transportation
Thomas J. Tinlin	Administrator of the Massachusetts Department of Transportation Highway Division
Walter Gunn	Chairman of the Pioneer Valley Executive Committee
Mayor David Narkewicz	Chairman of the Pioneer Valley Transit Authority Advisory Board
Mayor Domenic Sarno	Mayor of Springfield (Center Tier)
Mayor Richard Kos	Mayor of Chicopee (Center Tier)
Mayor Richard Cohen	Mayor of Agawam (Southern Tier)
Douglas Slaughter	Amherst Board of Selectmen (Northern Tier)
George Archible	Belchertown Board of Selectmen (Eastern Tier)
Charles Kaniecki	Southampton Board of Selectmen Western Tier
Alternates	
Mayor Alexander Morse	City of Holyoke (Central Tier)
Mayor Brian P. Sullivan	City of Westfield (Southern Tier)
Vacant	Northern Tier
Carmina Fernandes	Ludlow Board of Selectmen (Eastern Tier)
Roger Fuller	Chesterfield Board of Selectmen (Western Tier)
Ex-Officio (Non-Voting)	
Jeff McEwen	Federal Highway Administration
Mary Beth Mello	Federal Transit Administration
Carolyn Hart-Lucien	Acting Pioneer Valley Transit Authority Administrator
Rick Sullivan	Economic Development Council of Western Massachusetts
James Czach	Chairman – Pioneer Valley Joint Transportation Committee

DEVELOPMENT OF THE TIP

As the lead planning agency for the MPO, the PVPC accepts the responsibility for developing the TIP in a cooperative process with members of the MPO and the general public. The final TIP is voted on for endorsement at a formal meeting of the MPO. The endorsed TIP project listing is included in the State Transportation Improvement Program (STIP) verbatim and requires endorsement by the Governor.

The MPO relies on a transportation advisory committee, the Joint Transportation Committee (JTC) to carry out the cooperative process during TIP development. The JTC is a group of community appointed officials, MPO member representatives, public and private transportation providers, citizens, and special interest groups and agencies. The JTC establishes and recommends to the MPO procedures for submitting, prioritizing and selecting projects for the TIP. PVPC staff provides the technical support to conduct the TIP development activities for the JTC.

Below is a general outline of steps taken during the TIP development process.

- Project proponents (communities, MPO members, agencies) submit projects through the process outlined in Chapter 2 of the Massachusetts Project Development & Design Guidebook (2006)
- Projects are prioritized based on evaluation criteria by MPO staff, JTC representatives, and MassDOT Highway Division staff, and MassDOT staff at a posted meeting open to all.

- The State (thru MassDOT) provides funding targets for all 13 Regional Planning Agencies in Massachusetts.
- JTC reviews and recommends projects by Transportation Evaluation Score (TEC) and readiness to the MPO.
- Draft TIP project listings are prepared by the MPO staff and distributed for review and comment to MPO members.
- MPO meets to make final decisions on the composition of the TIP and to recommend the Draft TIP for general public release as required by the MPO Public Participation Plan for the Pioneer Valley Region.
- Final Draft TIP is distributed for review, consultation and comment in accordance with the adopted MPO Public Participation Plan.
- Public meetings and news releases are conducted to promote public involvement and consultation.
- Comments are compiled and addressed where appropriate.
- Final TIP developed for the JTC's consideration and their recommendation to MPO.
- MPO meets to vote on final adjustments and endorsement of the TIP.
- Endorsed Regional TIPs are compiled by MassDOT to create the STIP.
- Secretary and CEO of MassDOT endorse the STIP (on behalf of the Governor) and submits the STIP to federal agencies for review and approval.
- Federally approved STIP is ready for state implementation (project advertisement).

Amendments and adjustments to the TIP are made on an as needed basis with the additional public review and input for formal amendments only.

CONGESTION MANAGEMENT PROCESS (CMP)

Congestion Management Process means a systematic approach required in transportation management areas (TMAs) that provides for effective management and operation, based on a cooperatively developed and implemented metropolitan-wide strategy, of new and existing transportation facilities eligible for funding under title 23 U.S.C., and title 49 U.S.C., through the use of travel demand reduction and operational management strategies.

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>

23 CFR 450.314(H) COOPERATIVELY SHARE PERFORMANCE DATA

The MPO(s), State(s), and the providers of public transportation shall jointly agree upon and develop specific written provisions for cooperatively developing and sharing information related to transportation performance data, the selection of performance targets, the reporting of performance targets, the reporting of performance to be used in tracking progress toward attainment of critical outcomes for the region of the MPO (see § 450.306(d)), and the collection of data for the State asset management plan for the NHS for each of the following circumstances:

- (i) When one MPO serves an urbanized area,
 - (ii) When more than one MPO serves an urbanized area, and
 - (iii) When an urbanized area that has been designated as a TMA overlaps into an adjacent MPA serving an urbanized area that is not a TMA.
- (2) These provisions shall be documented either:
- (i) As part of the metropolitan planning agreements required under (a), (e), and (g) of this section, or
 - (ii) Documented in some other means outside of the metropolitan planning agreements as determined cooperatively by the MPO(s), State(s), and providers of public transportation.

PROJECT PRIORITY CRITERIA AND SELECTION

MassDOT developed a process and set of criteria to prioritize the region's TIP projects which was modified and endorsed by the MPO. In 2014 PVPC with the assistance of the JTC completed and comprehensive update to the TEC for the PVMPO. The purpose of the update was to bring the TEC up to the current set forth by MAP -21. All projects included in the TIP have been evaluated and assigned a priority value or rating. This process is used as a management tool to identify projects of regional priority and program them accordingly in the TIP.

TEC SCORING SUMMARY

System Preservation, Modernization and Efficiency	Livability	Mobility	Smart Growth and Economic Development	Safety and Security	Environment and Climate Change	Quality of Life	Environmental Justice
8	Design is consistent with Complete Streets policies 3	Improves efficiency, reliability and attractiveness of public transit 4	Encourages development around existing infrastructure 2	Reduces number and severity of collisions 7	Preserves floodplains and wetlands 1	Enhances or preserves greenways and blueways 1	Reduces and limits disproportionate impacts on an EJ community 1
Improves Intersection Operations 6	Provides multi-modal access to a downtown, village center, or employment center 2	Improves existing peak hour LOS 6	Prioritizes transportation investments that support land use and economic development goals 1	Promotes safe and accessible pedestrian and bike environment 5	Promotes green infrastructure and low impact development to reduce stormwater impacts 2	Improves access to parks, open lands and open space 1	Improves transit for EJ populations 2
In a Congestion Management Process Area 5	Reduces auto-dependency 2	Reduces traffic congestion 7	Provides services to a TOD, TND or cluster development 0.5	Improves emergency response 4	Reduced impervious surfaces 0.5	Improves access to jobs 2	Creates an EJ Burden 5
	Project serves a targeted development site 2		Supports mixed-use downtowns and village centers 0.5		Protects or enhances environmental assets 0.5	Preserves historical and cultural resources 0.5	
	Completes off-road bike and ped network 3		Improves intermodal connections 4		Supports Brownfield redevelopment 0.5	Preserves prime agricultural land 0.5	
			Reduces congestion on freight routes 2		Improves air quality 1	Provides safe and reliable access to education 0.5	
					Reduces CO2 emissions 1	Supports designated scenic byways 0.5	
					Promotes mode shift 1	Implements ITS Strategies 2	
					Improves fish and wildlife passage 1	Improves Network Wayfinding 1	
					Supports Green Communities 0.5	Health Impact Assessment 1	
					Improves storm resilience 3	Length of Time on TIP 1	

Maximum Score	19	12	17	10	16	12	11	3
								100

PROJECT INITIATION

The Project Needs Form (PNF) is the first document completed at the start of the project development process. The PNF provides sufficient material to understand the transportation need(s), and results in one of the following three outcomes:

- Verification of the problem, need, or opportunity to enable it to move forward into design;
- Determination of the level of further project planning warranted; or,
- Dismissal of a project from further consideration.

The next step in the project development process involves summarizing the findings and direction defined in a Project Initiation Form (PIF) used by the Project Review Committee (PRC) and the MPO for project review and evaluation. The PIF will include the following information to be documented by the proponent:

- Project Type and Description, including locus map
- Summary of Project Planning Process
- Preliminary identification of the Project Category for review and programming purposes
- Definition of the proposed project management responsibility
- Definition of an interagency (including local boards) coordination plan
- Definition of a public outreach plan for the design process
- Project Need Form or Project Planning Report as an attachment
- Transportation Evaluation Criteria as an attachment

The Project Needs and Project Information Form can be found at

<http://www.massdot.state.ma.us/highway/Departments/ProjectManagement/ProjectReviewCommittee.aspx>

MASSDOT GREENDOT POLICY

MassDOT launched its GreenDOT initiative on June 2, 2010. GreenDOT was developed to assure a coordinated approach to sustainability and to integrate sustainability into the responsibilities and decision-making of all MassDOT employees. The following three mutually-reinforcing goals form the foundation of GreenDOT:

- Reduce greenhouse gas (GHG) emissions
- Promote the healthy transportation modes of walking, bicycling, and public transit
- Support smart growth development

The initiative is a comprehensive response to a range of state and MassDOT laws, policies and initiatives including: the Global Warming Solutions Act, the Green Communities Act, the Healthy Transportation Compact, Leading by Example, YouMoveMassachusetts, and Complete Streets. The Global Warming Solutions Act requires Massachusetts to reduce economy wide GHG emissions: 10% -25% below 1990 levels by 2020 and an 80% reduction below 1990 levels by 2050. The transportation sector is the largest GHG emitter, producing 31% of 1990 emissions and projected to produce 38% of 2020 emissions. GreenDOT also incorporates a statewide mode shift goal to triple the percentage of trips made by bicycling, transit and walking.

GreenDOT is also comprised on an additional by seven goals that can be tied to regional planning efforts. In the Pioneer Valley region, these goals and their recommended strategies have been incorporated into the new Transportation Evaluation Criteria (TEC) used to prioritize transportation improvement projects included as part of the TIP. The Tec is described in greater detail in Chapter 10 of the RTP. Table 1 summarizes the seven GreenDOT goals, their associated strategies and how they are addressed in the TEC for the Pioneer Valley.

Table 1 Integration of GreenDOT Goals into TIP

Policy/Planning - Design a Multi-Modal Transportation System, Triple Mode Share of Bicycling, Transit, and Walking, & Promote Healthy Transportation and Livable Communities	
Associated Strategy	RTP/TEC Integration
Providing secure and/or covered bicycle parking and shared used paths	Projects are eligible to receive up to 12 points for bicycle and pedestrian improvements in the "Livability" category. Projects receive 1 point for providing bicycle amenities such as bicycle parking.
Improving access to transit and other vital community services	Projects are eligible to receive up to 4 points by improving access to transit.
Designing complete street projects with municipalities	Complete Streets consistency is worth up to 3 points.
Encouraging Safe Routes to Schools projects	Projects that provide safe and reliable access to education receive 0.5 point.
Incorporating public health impacts in the transportation planning process	Projects that complete a Health Impact Assessment will receive 1 point.
Coordinating on regional and statewide bicycle and pedestrian planning efforts.	Many "Livability" subcategories in the TEC support regional and statewide bicycle and pedestrian planning efforts.
Supporting Bike Share programs locally and regionally.	Projects can receive 2 points for being part of a locally adopted Bike Share Program.
Prioritizing critical pedestrian and bicycle network gaps, i.e. Bay State Greenway	Critical Gaps are identified as part of PVPC's Regional Bicycle Linkages Map. Projects that provide connections to regional bikeways/walkways receive 1 point.
Improving bicycle and pedestrian counts	PVPC collects bicycle and pedestrian movements as part of all intersection turning movement counts.
Air - Reduce Greenhouse Gas Emissions & Improve Air Quality	
Associated Strategy	RTP/TEC Integration
Developing projects to improve air quality	Projects that demonstrate improvements to air quality can receive up to 1 point.
Analyzing GHG reduction strategies in transportation improvement projects and tracking progress	PVPC performs GHG analysis for all proposed RTP and TIP projects.
Setting regional goals for reducing VMT (travel demand)	Projects that demonstrate a significant reduction in single occupant vehicle use will receive 1 point.
Analyzing fleet fuel usage and supporting retrofits and procurement of alternative fuel vehicles	The RTP supports the use of alternatively fueled vehicles. PVTA has hybrid transit vehicles and is in the process of purchasing electric buses.
Supporting alternative fuels vehicle infrastructure	PVTA is in the process of purchasing an electric vehicle charging station.
Increasing bus and transit route efficiency	The PVPC has an ongoing task in its UPWP to study transit route efficiency.

Promoting anti-idling policies and educational outreach	Not specifically addressed in the TEC but included as a Need in the RTP
Energy - Consume Less Energy & Increase Reliance on Renewable Energy	
Associated Strategy	RTP/TEC Integration
Evaluating outdoor lighting and traffic signal systems, and retrofitting where feasible	Upgrades to traffic signal equipment can be worth up to 6 points.
Planning for the implementation of energy efficient measures and renewable energy projects	The RTP incorporates strategies from the Pioneer Valley Clean Energy Plan.
Land - Minimize Energy and Chemicals Used in Maintenance & Enhance Ecological Performance	
Associated Strategy	RTP/TEC Integration
Implementing sustainable stormwater management	Up to 2.5 points can be received through the use of green infrastructure and the reduction of impervious surfaces to manage stormwater.
Protecting and restoring native landscaping, woodland, and urban tree coverage	Projects that protect or enhance environmental assets receive 0.5 point.
Implementing sustainable road salt and sanding practices	Included as a strategy in the RTP.
Designing landscapes for wildlife habitat restoration, safe migration, and accommodation	Improvements to stream crossings and culverts that improve fish and wildlife passage receive 1 point.
Reducing outdoor light pollution	Not specifically addressed.
Advocating for urban trees into Complete Streets designs/studies	Complete Streets consistency is worth up to 3 points.
Materials - Improve Lifecycle Impacts of Investments & Purchase Environmentally Preferred Products	
Associated Strategy	RTP/TEC Integration
Planning for climate resiliency in the development of projects	Projects that preserve floodplains receive 0.5 point. Projects that improve storm resilience in areas prone to flooding receive up to 3 points.
Supporting the use and identify appropriate applications for warm mix and recycled content paving materials	Not specifically addressed.
Waste - Achieve Zero Solid Waste Disposal	
Associated Strategy	RTP/TEC Integration
Identifying projects with zero construction waste diversion goals	Not specifically addressed.
Implementing regional litter prevention programs with their respective municipalities	Not specifically addressed.
Water - Use Less Water & Improve Ecological Function of Water Systems	
Associated Strategy	RTP/TEC Integration
Planning projects that minimize impacts on surface water and enhance wetlands flood storage capacity	Projects that preserve wetlands receive 0.5 point.
Considering sea level rise and storm surge projections in project planning	Projects that improve storm resilience in areas prone to flooding receive up to 3 points.

PROJECT SELECTION AND PROGRAMMING

The project priority ratings were applied in conjunction with a project's anticipated advertisement schedule. The funding targets provided by the MassDOT to develop the four-year program of the TIP were applied for each year in order to develop this fiscally constrained document. A project was not considered for scheduling in a year earlier than its anticipated schedule regardless of the priority rating. For projects that are expected to be ready to go in the first year of the TIP the top priority projects for that year were funded under the federal aid categories, since these funds are most secure. Once the federal aid funds were completely programmed, non-federal aid funds were programmed to priority projects. This initial assignment procedure was applied to each year of the TIP and is subject to change as the TIP is developed and refined by members of the MPO and the JTC.

AMENDMENT/ADJUSTMENT OF THE TIP

Amendment means a revision to a long-range statewide or metropolitan transportation plan, TIP, or STIP that involves a major change to a project included in a metropolitan transportation plan, TIP, or STIP, including the addition or deletion of a project or a major change in project cost, project/project phase initiation dates, or a major change in design concept or design scope (e.g., changing project termini or the number of through traffic lanes or changing the number of stations in the case of fixed guideway transit projects). Changes to projects that are included only for illustrative purposes do not require an amendment. An amendment is a revision that requires public review and comment and a redemonstration of fiscal constraint. If an amendment involves "non-exempt" projects in nonattainment and maintenance areas, a conformity determination is required.

Amendments requires formal MPO action, and must follow the requirements outlined in the Pioneer Valley Public Participation Plan (PPP). Additional information regarding the PPP can be found at <http://www.pvpc.org/content/pioneer-valley-public-participation-plan>

Program adjustments can be conducted without formal MPO action in order to minimize constraints on programming projects. Minor adjustments could include such actions as moving projects between Year 1 and Year 2, and minor fluctuations in project description, costs and funding source. This action can be accomplished through an agreed upon administrative action.

DESCRIPTION OF FUNDING SOURCES

Interstate Maintenance (IM) - Resurfacing, restoration and rehabilitation are eligible activities for maintaining Interstate facilities. Reconstruction is also eligible if it does not add capacity. However, high-occupancy-vehicle (HOV) and auxiliary lanes can be added. Funding: federal - 90 %, state - 10 %.

Surface Transportation Block Grant Program (STBGP) - This program formerly the Surface Transportation Program (STP) is a flexible funding program that can be used for projects that preserve and improve the conditions and performance on any Federal-aid highway, bridge and tunnel projects on any public road, pedestrian and bicycle infrastructure, and transit capital projects, including intercity bus terminals. Funding: federal - 80%, state - 20%.

Transportation Alternatives Program (TAP) - The TAP provides funding for programs and projects defined as transportation alternatives, including on- and off-road pedestrian and bicycle

facilities, infrastructure projects for improving non-driver access to public transportation and enhanced mobility, community improvement activities, and environmental mitigation; recreational trail program projects; safe routes to school projects; and projects for planning, designing, or constructing boulevards and other roadways largely in the right-of-way of former Interstate System routes or other divided highways. Funding: federal - 80%, state - 20%

Congestion Mitigation and Air Quality Improvement Program (CMAQ) - These funds are directed towards transportation projects and programs which reduce transportation-related emissions. These funds are to assist areas designated as nonattainment and maintenance under the Clean Air Act Amendments of 1990. These projects will contribute to meeting the attainment of National Ambient Air Quality Standards (NAAQS). Funding: federal - 80%, state - 20%.

Highway Safety Improvement Program (HSIP) – The HSIP requires a data-driven, strategic approach to improving highway safety on all public roads that focuses on performance. The goal of HSIP is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads, including non-State-owned public roads and roads on tribal lands. Funding: federal - 80%, state - 20%. HSIP can be funded 90/10 and even 100% federal in certain circumstances.

Bridges (BR) - Funds the replacement or repair of structurally deficient or unsafe bridges in urban and rural areas. All bridges, both on and off the federal aid roadway system are eligible for funding. Funding: federal - 80%, state - 20%.

National Highway Performance Program (NHPP) - The NHPP provides support for the condition and performance of the National Highway System (NHS), for the construction of new facilities on the NHS, and to ensure that investments of Federal-aid funds in highway construction are directed to support progress toward the achievement of performance targets established in a State's asset management plan for the NHS. NHPP projects must be on an eligible facility and support progress toward achievement of national performance goals for improving infrastructure condition, safety, mobility, or freight movement on the NHS, and be consistent with Metropolitan and Statewide planning requirements. Funding: federal - 80%, state - 20%.

High Priority Projects (HPP) High Priority Projects are congressionally earmarked projects that have been deemed as a high priority for the state where the project is located. Funding: federal - 80%, state – 20%

Section 115 Funds Included in the Transportation bill as congressional earmarks, each year the earmarks are given a designated funding category. In FFY2005 the funding designation for these projects was Section 115 Funds. Funding: federal – 100%, state – 0%

Section 117 Funds Included in the Transportation bill as congressional earmarks, each year the earmarks are given a designated funding category. In FFY2006 the funding designation for these projects was Section 117 Funds. Funding: federal – 100%, state – 0%

Section 129 Funds Congressional Earmarks for FFY 2008. Funding: federal – 100%, state – 0%

Section 125 Funds Congressional Earmarks for FFY 2009. Funding: federal – 100%, state – 0%

In compliance with FHWA guidelines projects with federal earmarks are only programmed in the FY 2014 to FY 2017 TIP if the total funding is adequate for project implementation. The remaining earmarked projects will be included in appendix Z for informational and tracking purposes.

Non-Federal Aid (NFA) - This funding category contains all those projects not receiving federal funds. Various categories of state funding are included in this group including bikeways, State Aid

(Chapter 90), and highway construction and maintenance (Chapter 497). This category is included in the TIP for informational purposes only. Funding: federal - 0 %, state - 100 %.

Section 5339 Bus and Bus Facilities – (5309 SAFETEA-LU) Program provides capital funding to replace, rehabilitate, and purchases buses and related equipment and to construct bus related facilities. Funding: Federal - 80%, State - 20%

Section 5307 Capital - This program provides grants to Urbanized Areas¹ (UZA) for public transportation capital, planning, job access and reverse commute projects, as well as operating expenses in certain circumstances. These funds constitute a core investment in the enhancement and revitalization of public transportation systems in the nation's urbanized areas, which depend on public transportation to improve mobility and reduce congestion. Federal Share is 80% for Capital Assistance, 50% for Operating Assistance, and 80% for Americans with Disabilities Act (ADA) no-fixed-route paratransit service, using up to 10% of a recipient's apportionment.

Section 5310 - Section 10 pertains to transportation facilities meeting special needs of the elderly and disabled. Funds allocated under Section 16(b) (2) provide private non-profit corporations and associations with grants and loans to improve the mobility of the elderly and disabled. In Massachusetts, 16(b) (2) funds are administered at the state level by the MASSDOT. These funds typically are used for the purchase of capital items, including lift-equipped vans. Mobility Assistance Program (MAP) funds are intended for use by public agencies, such as municipal councils on aging and the Pioneer Valley Transit Authority (PVTA) to provide van service to elderly and/or disabled persons.

Section 5311 - These funds are made available exclusively for public transportation projects outside the urbanized areas. Both capital and operating expenses are eligible.

TRANSPORTATION SYSTEM OPERATING AND MAINTENANCE COSTS

The FFY 2018-2022 TIP is consistent with the Regional Transportation Plan (RTP) for the Pioneer Valley Region. Tables 2 and 3 presents the estimates outlined in the RTP of annual expenditures associated with operating and maintaining the transportation system. These estimates represent past expenditures and do not reflect costs associated with maintaining a constant level of system performance.

Table 2 Transportation Operating and Maintenance Expenditures

Total Available for Programming in the Pioneer Valley RTP	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	GRAND TOTAL
	Total	Total	Total	Total	Total	Total
	\$ 420,177,748	\$ 426,618,217	\$ 520,221,270	\$ 582,504,200	\$ 623,968,064	\$ 2,573,489,499
<i>Statewide Interstate Maintenance</i>	\$ 29,750,182	\$ 28,157,124	\$ 35,185,257	\$ 39,841,190	\$ 42,920,276	\$ 175,854,029
<i>Statewide NHS</i>	\$ 19,572,131	\$ 18,955,373	\$ 23,686,712	\$ 26,821,085	\$ 28,893,926	\$ 117,929,227
<i>Statewide Bridge</i>	\$ 105,433,448	\$ 102,111,025	\$ 127,598,354	\$ 144,482,963	\$ 155,649,185	\$ 635,274,975
<i>Statewide Infrastructure</i>	\$ 4,219,341	\$ 4,086,381	\$ 5,106,359	\$ 5,782,064	\$ 6,228,925	\$ 25,423,070
<i>Remaining Statewide Programs</i>	\$ 96,040,886	\$ 101,493,887	\$ 126,827,176	\$ 143,609,738	\$ 154,708,473	\$ 622,680,160
<i>NFA Bridge Preservation</i>	\$ 54,049,500	\$ 54,860,243	\$ 55,670,985	\$ 56,481,728	\$ 57,292,470	\$ 278,354,926
<i>Regional Discretionary Funding</i>	\$ 111,112,260	\$ 116,954,184	\$ 146,146,427	\$ 165,485,432	\$ 178,274,809	\$ 717,973,112

Source: Regional Transportation Plan, updated 2016

Table 3 Transit Operating and Maintenance Expenditures

Estimated Transit Operating Revenues 2016 - 2040						
	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	Grand Total
State Contract Assistance	\$ 125,723,298	\$ 145,747,760	\$ 168,961,600	\$ 195,872,803	\$ 227,070,262	\$ 863,375,723
Local Assessments	\$ 43,637,997	\$ 49,372,389	\$ 55,860,326	\$ 63,200,831	\$ 71,505,940	\$ 283,577,483
5307 Federal Urbanized Area Formula	\$ 53,120,529	\$ 57,917,522	\$ 62,393,619	\$ 67,215,646	\$ 72,410,341	\$ 313,057,657
5339 Federal **	\$ 3,614,988	\$ 3,937,914	\$ 4,242,253	\$ 4,570,110	\$ 4,923,307	\$ 21,288,572
5310 Federal Ederly & Disabled	\$ 2,704,105	\$ 2,913,090	\$ 3,138,225	\$ 3,380,759	\$ 3,642,038	\$ 15,778,217
Farebox	\$ 41,119,964	\$ 45,399,763	\$ 50,125,006	\$ 55,342,057	\$ 61,102,103	\$ 253,088,893
Advertising, other revenue	\$ 2,948,172	\$ 3,255,020	\$ 3,593,805	\$ 3,967,851	\$ 4,380,829	\$ 18,145,677
Available for Programming in Pioneer Valley RTP	\$ 272,869,053	\$ 308,543,458	\$ 348,314,834	\$ 393,550,057	\$ 445,034,820	\$ 1,768,312,222
Estimated Capital Revenues						
	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	Grand Total
RTACAP	\$ 20,285,825	\$ 22,314,408	\$ 24,545,848	\$ 27,000,433	\$ 29,700,476	\$ 123,846,990
ITC Cap Program	\$ 1,145,277	\$ 1,259,805	\$ 1,385,785	\$ 1,524,364	\$ 1,676,800	\$ 6,992,031
Federal Matching grants	\$ 63,410,806	\$ 69,751,887	\$ 76,727,075	\$ 84,399,783	\$ 92,839,761	\$ 387,129,311
Total Transit Capital Funds for Programming in PV RTP	\$ 84,841,908	\$ 93,326,099	\$ 102,658,709	\$ 112,924,579	\$ 124,217,037	\$ 517,968,332
Grand Total of Revenue	\$ 357,710,961	\$ 401,869,557	\$ 450,973,543	\$ 506,474,636	\$ 569,251,857	\$ 2,286,280,554

Source: Regional Transportation Plan, updated 2016

II. PUBLIC PARTICIPATION SUMMARY AND CHANGES

In accordance with 23 CFR 450.316(a) The MPO shall develop and use a documented participation plan that defines a process for providing individuals, affected public agencies, representatives of public transportation employees, public ports, freight shippers, providers of freight transportation services, private providers of transportation (including intercity bus operators, employer-based commuting programs, such as carpool program, vanpool program, transit benefit program, parking cash-out program, shuttle program, or telework program), representatives of users of public transportation, representatives of users of pedestrian walkways and bicycle transportation facilities, representatives of the disabled, and other interested parties with reasonable opportunities to be involved in the metropolitan transportation planning process.

And 23 CFR 450.316(b) In developing metropolitan transportation plans and TIPs, the MPO should consult with agencies and officials responsible for other planning activities within the MPA that are affected by transportation (including State and local planned growth, economic development, tourism, natural disaster risk reduction, environmental protection, airport operations, or freight movements) or coordinate its planning process (to the maximum extent practicable) with such planning activities. In addition, the MPO shall develop the metropolitan transportation plans and TIPs with due consideration of other related planning activities within the metropolitan area, and the process shall provide for the design and delivery of transportation services within the area that are provided by:

The DRAFT FFY 2018-2022 TIP underwent a public review and comment period consistent with the Pioneer Valley Metropolitan Planning Organizations Public Participation Process. This began April 25, 2017 and continued until May 23, 2017. During this time, comments were received from communities, JTC, PVTA, PVPC, MassDOT, and FHWA. A public hearing was held on May 10, 2017 as part of the JTC meeting. Below is a summary of the comments received during the public review and comment period.

Table 4 Comments Recieved During Public Review

Comment By	Project	Comment	Date	Action Taken	
Kristopher Ventura Dunkin' Donuts Franchisee 1465 N. Main St. Palmer, MA 01069	Belchertown 608412	I am the owner of the Dunkin' Donuts located at 37 State St. in Belchertown MA. I am writing to provide my support for the inclusion of the State Street at Maple Street Roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of this section of roadway is poor and we continue to have potholes develop in the road at the entrance to our business. Additionally, traffic congestion is severely affecting the ability of our guests to enter and exit the property during early morning and evening hours. This is directly affecting our ability to increase sales as our business is dependent on ease and speed of access to our property. The proposed project will provide minor widening, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at Rt. 21 (Turkey Hill Road) and State Street at Stadler Street. I believe these measures will greatly benefit the local businesses in this corridor and improve traffic flow for those traveling through the region. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the town. My family has owned and operated the 37 State St. Belchertown MA Dunkin' Donuts for over 10 years and have witnessed the negative impact of growth without improvement on our town and our roadways, especially State Street and Maple Street. I eagerly anticipate the completion of this project and urge the members of	5/2/17	Comments Noted	1
Doug Albertson Planner Town of Belchertown	Belchertown 608412	The Belchertown planning department adds its support for including the State Street/Maple Street Roadway Improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The town and its partners, the Belchertown Economic Development and Industrial Commission and MassDevelopment, have been working over the past several years to bring the community into the project so it will reflect community priorities. This is a congested area with inadequate roadways that lack pedestrian, bicycle, and transit amenities. With the former Belchertown State School campus developing, this corridor stands to see much greater demand in the coming decade. The proposed project will address the many deficiencies along this route. Congestion will be mitigated by installing signals and widening. Further, pedestrian crossings will be made safer. On the south side of this corridor are the town's schools and a retail area, while on the north side are municipal buildings, a playground, and the state school redevelopment. We anticipate there being much demand for non- motorized access in the area for people to move between sites. This improvement project is crucial to the functioning of this corridor as a	5/3/17	Comments Noted	2

		community asset as well as an efficient route for through-traffic. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the town. The Belchertown Planning Department has been working with all involved parties in the planning of this corridor. We are sure the town's residents will benefit greatly from its completion. We urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.			
MassDOT – OTP	TIP Document	Attached are the Final FFY 2018-2022 STIP Budgets for incorporation into your Final TIP Documents. There were several changes to statewide programs, however your regional targets have remain unchanged	5/3/17	Document updated	3
MassDOT – OTP	Operations and Maintenance Expenditures	We will not be providing Operations and Maintenance Reports for your TIPs this year and will not be publishing them in the STIP either. We have recoded the expenditures to align with the federal definition of maintenance and most of the regions did not reflect expenditures. Obviously we do still expend funds for operations and maintenance across the Commonwealth as reflected in the CIP. If FHWA has any issues or concerns we will address them at that point.	5/4/17	Document updated	4
William A. Terry Resident/Chairman BEDIC	Belchertown 608412	I am writing to provide my support for the inclusion of the State Street/Maple Street Roadway Improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the 1.17 mile corridor is poor, adequate bicycle and pedestrian facilities do not exist, and traffic congestion is severely affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at Turkey Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the town. I have been a Belchertown resident for over 74 years and I have served on the Belchertown Economic Development & Industrial Corporation (BEDIC) for more than 15 years. I have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.	5/2/17	Comment Noted	5
Paul Anziano President	Belchertown 608412	I am writing to provide my support for the inclusion of the State Street/Maple Street Roadway Improvement project (NO. 608412) in the Federal Fiscal Year	5/3/17	Comment Noted	6

<p>Hulmes Transportation Services, Ltd.</p>		<p>(FFY) 2019 Transportation Improvement Program (TIP). The current condition of the 1.17 mile corridor is poor, adequate bicycle and pedestrian facilities do not exist, and traffic congestion is severely affecting the vitality of our businesses and our standards of living.</p> <p>The proposed project will provide minor widening, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at Turkey Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the town.</p> <p>Hulmes Transportation has been located in this area for over 20 years and we have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. One example of the growth in this area means that several times a day it may take up to 5 minutes to safely pull out onto State Street from Front or Stadler Street. A traffic light is needed as soon as possible.</p> <p>I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.</p>			
<p>Andrew Carey Business Owner Cimex</p>	<p>Belchertown 608412</p>	<p>I am writing to provide my support for the inclusion of the State Street/Maple Street Roadway Improvement project (NO.608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the 1.17 mile corridor is poor, adequate bicycle and pedestrian facilities do not exist, and traffic congestion is severely affecting the vitality of our business and our standards of living. I would also add that the crossing situation for pedestrians is very dangerous these days. There are no lights, and the percentage of cars that even bother to stop for pedestrians on crossings has become very low, someone is going to get hurt unless this gets remedied on the other side of the road. We constantly see that even if one car stops so the pedestrians start crossing, cars whiz by in the opposite direction.</p> <p>The proposed project will provide minor widening, pavement rehabilitation, drainage improvements, and signal system at the intersection of State Street at Turkey Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of the approximately 150 acres of the commercial property currently under planning by Mass Development and the town.</p> <p>I moved to Belchertown in 1979 and have been a business owner since the early 90's, and have witnessed the negative impacts of growth on our town and our</p>	<p>5/3/17</p>	<p>Comment Noted</p>	<p>7</p>

		roadways, especially State Street and Maple Street. I eagerly anticipate the completion of the project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.			
Gary L. Brougham Town Administrator Belchertown	Belchertown 608412	<p>I am wiring to provide my support for the inclusion of the State Street/Maple Street Roadway Improvement project (NO. 608412) in the Federal Fiscal Year 2019 Transportation Improvement Program (TIP). The current condition of the 1.17 mile corridor is poor, inadequate for bicycle and pedestrian facilities do not exist, and traffic congestion is severely affecting the vitality of our business and our standards of living.</p> <p>The proposed project will provide minor widening, pavement rehabilitation, drainage improvements, and signal system at the intersection of State Street at Turkey Hill Road and State Street at Stadler Street.</p> <p>I believe these measures will greatly benefit the community and region. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the Town.</p> <p>I have been a Belchertown resident for 60 years, was Belchertown's Director of Public Works from October 1993 to November 1997, and am currently the Town Administrator (November 1997 to present). I have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.</p>	5/3/17	Comment Noted	8
MassDOT OTP	FFY2018	<p>Please note for the 607256 Holyoke project in FFY 2018, that the total cost programmed was including non-participating work. This should be listed in the additional information column and revised in the TIP.</p> <p>Project #604203 AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57</p> <p>All references to design stage should be "25%" not "Pre 25%"</p> <p>Project #604597 NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD</p> <p>All references to design stage should be "75%" not "25%"</p> <p>Project #607256 HOLYOKE- RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)</p> <p>Current Total Programmed Funds = \$3,758,081</p> <p>D2 Suggested Total Programmed Funds = \$2,283,489</p> <p>(Difference = \$1,474,592)</p> <p>Note: The difference in the current total programmed funds v. suggested is the current funds appear to include non-participating work items... (which should not be included in the Total Programmed Funds)</p> <p>Project #604962 HOLLAND- RESURFACING & RELATED WORK</p>	5/9/17	Projects Updated	9

		ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I) Current Total Programmed Funds = \$1,140,089 D2 Suggested Total Programmed Funds = \$1,409,592 (Difference = \$269,503)			
MassDOT OTP	FFY2019	Project #600513 AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I) Current Total Programmed Funds = \$2,323,443 D2 Suggested Total Programmed Funds = \$2,505,613 (Difference = \$182,170) Design is at 25%, not Pre-25%	59/17	Projects Updated	1 0
MassDOT OTP	FFY2020	Project #607773 WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II) Current Total Programmed Funds = \$6,531,379 D2 Suggested Total Programmed Funds = \$5,898,533 (Difference = \$632,846) Project #606895 GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS Current Total Programmed Funds = \$1,371,297 D2 Suggested Total Programmed Funds = \$1,489,637 (Difference = \$118,340) Project #605032 HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET All Design Stage references should say "Pre-25%" not "25%"	59/17	Projects Updated	1 1
MassDOT OTP	FFY2021	Project #605032 HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET All Design Stage references should say "Pre-25%" not "25%" Project #607502 NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET Current Total Programmed Funds = \$3,702,674 D2 Suggested Total Programmed Funds = \$3,854,765 (Difference = \$152,091) Project #608577 EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES) Design is at Pre-25%	59/17	Projects Updated	1 2
MassDOT OTP	FFY2022	Project #608374 WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES) Design is at Pre-25%	59/17	Projects Updated	1 3
Christopher G.	Belchertown	Please accept this letter of support for the Town of Belchertown State Street/Maple	5/8/17	Comment	1

<p>Pronovost Belchertown Chief of Police</p>	<p>608412</p>	<p>Street Roadway Improvement project (NO. 608412) in the Federal Fiscal Year 2019 Transportation Improvement Program (TIP). The current condition of the 1.17 mile corridor is poor, inadequate for bicycle and pedestrian. The area is the scene of constant traffic congestion which severely affects safety, area businesses, and the quality of life to residents and visitors.</p> <p>My understanding is the proposed project will provide minor widening, pavement rehabilitation, drainage improvements, and signal system at the intersection of State Street at Turkey Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and region. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the Town.</p> <p>As the Chief of Police, I value safety improvements to our roadways, and urge you and the other members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.</p>		<p>Noted</p>	<p>4</p>
<p>Ann Marie Stratton Belchertown</p>	<p>Belchertown 608412</p>	<p>I am writing to provide my support for the inclusion of the State Street/Maple Street Roadway Improvement project (NO. 608412) in the Federal Fiscal Year 2019 Transportation Improvement Program (TIP). The current condition of the 1.17 mile corridor is poor, adequate bicycle and pedestrian facilities do not exist, and traffic congestion is severely affecting the vitality of our businesses and our standards of living.</p> <p>The proposed project will provide minor widening, pavement rehabilitation, drainage improvements, and signal system at the intersection of State Street at Turkey Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and region. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the Town.</p> <p>I have been a Belchertown resident for over 20 years and have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. I eagerly anticipate the completion of the project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.</p>	<p>5/14/17</p>	<p>Comment Noted</p>	<p>1 5</p>
<p>PVTA</p>	<p>P21 Express</p>	<p>The Pioneer Valley Transit Authority (PVTA) requests that the Pioneer Valley Metropolitan Planning Organization include \$500,000 of Congestion Mitigation Air Quality (CMAQ) funding in the FFY 2018 element of the Pioneer Valley Transportation Improvement Program to provide one year of operating funds for the PVTA's P21E route, which provides hourly express service using all-electric battery-powered buses between downtown Springfield and Holyoke. On June 25th, the new Springfield terminus for this route will be Union Station, where</p>	<p>5/19/17</p>	<p>Funding Included</p>	<p>16</p>

		<p>PVTA has installed a fast-charging unit for the electric buses. PVTA confirmed with Federal Transit Authority officials earlier this week that this proposed use is eligible for CMAQ funds. The vehicles emit no GHGs or other pollutants, as they are powered entirely by onboard batteries that are recharged throughout the service day.</p> <p>In speaking with your staff, we understand that the FFY 2018 element of the TIP is currently under-programmed, so the addition of this project will not displace any other project on the TIP. PVPC staff have made it clear that CMAQ funds are not likely to be available in any future years of the TIP; therefore, PVTA is limiting this request to FFY 2018.</p> <p>PVTA has been working closely with PVPC staff to take all necessary steps to submit this project to MassDOT for the required federal CMAQ consultation process. We understand that the state CMAQ Consultation Committee will not meet again before the next MPO meeting on May 23, 2017; therefore, we are requesting the opportunity to receive the necessary CMAQ consultation via an email vote. We understand that this will occur at the discretion of MassDOT. PVTA is available to provide any additional data or respond to any questions that may arise during the consultation process. Thank you for the opportunity to present this request for CMAQ support of PVTA's all-electric bus service to the MPO for consideration.</p>			
Tasha Majerowski Belchertown	Belchertown 608412	<p>I am writing to provide my support for the inclusion of the State Street/Maple Street Roadway Improvement project (NO. 608412) in the Federal Fiscal Year 2019 Transportation Improvement Program (TIP). The current condition of the 1.17 mile corridor is poor, adequate bicycle and pedestrian facilities do not exist, and traffic congestion is severely affecting the vitality of our businesses and our standards of living. Belchertown is a beautiful town but with the poor sidewalks and awful traffic, we do not take advantage of walking around and enjoying it like we should.</p> <p>The proposed project will provide minor widening, pavement rehabilitation, drainage improvements, and signal system at the intersection of State Street at Turkey Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and region. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the Town.</p> <p>I have been a Belchertown resident for over 35 years and have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. I eagerly anticipate the completion of the project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.</p>	5/12/17	Comment Noted	17
MassDOT	TIP Document	Title Page - Revise "FFY 2017-2021" to "FFY 2018-2022"	5/15/17	Document updated	18

		<p>Page 6 – Correct footnote from "2017-2019" to "2018-2022"</p> <p>Page 21 – Revise the public comment period to the actual dates released and endorsed.</p> <p>Page 22 - Revise the spelling of "comments"</p> <p>Page 29 – Revise "Target funding was..." to "Highway projects funded with regional target funds are inflated four percent per year" and revise "FFY 2017- 2021" to "FFY 2018-2022"</p> <p>Page 30 – Revise the spelling of "Capitol" to "Capital" and revise "2012 to 2016" to "2013 to 2017" for the geographic distribution of projects.</p>			
MassDOT	TIP Document	Page 34 – Revise the TIP project map depicting FFY 2017-2021 projects to FFY 2018-2022 projects and correct the hyperlink.	5/15/17	Ongoing,	19
MassDOT	TIP Document	<p>PV0004 – Revise project ID to 608869</p> <p>Page 57 – Correct the spelling of "Currently"</p> <p>Page 58 – Suggest changing title of Table 15 from "Projects Awaiting Design and Funds" to "Universe of Projects"; revise spelling of "Belchertown"</p> <p>Page 80 – Statewide Federal Aid Project listing needs to be updated based on latest Statewide Project Listing.</p> <p>Page 91 – Update "Projects with Quantified Impacts" table to reflect latest MassDOT guidance on project emissions categories.</p> <p>Page 99 – Table 22: The highway/transit project greenhouse gas (GHG) evaluation is incomplete. Ensure that all highway/transit projects that can be quantified are included in the final document and adhere to GHG analysis commentary provided by OTP.</p> <p>Page 106 to 111 – Replace tables with the latest financials provided by MassDOT.</p>	5/15/17	Document updated	20
Ace Hardware Center 3 Stadler Street Belchertown	Belchertown 608412	<p>I am writing to provide my support for the inclusion of the State Street/Maple Street Roadway Improvement project (NO. 608412) in the Federal Fiscal Year 2019 Transportation Improvement Program (TIP). The current condition of the 1.17 mile corridor is poor, adequate bicycle and pedestrian facilities do not exist, and traffic congestion is severely affecting the vitality of our business.</p> <p>The proposed project will provide minor widening, pavement rehabilitation, drainage improvements, and signal system at the both intersections. I believe these measures will greatly benefit the community. Over these 25 years of being in business on Stadler Street we have seen too many extreme accidents and many fatalities. All of the businesses in this area are excited about creating a beautiful and safer area down here. I am urging Metropolitan Planning Commission to work hard to keep this project funded and through completion.</p>	5/16/17	Comment Noted	21
Claire M. O'Neill VP Planning & Development MassDevelopment	Belchertown 608412	I am writing to express MassDevelopment's support for the inclusion of the State Street/Maple Street Roadway Improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). MassDevelopment is the Agent for the redevelopment of the former	5/19/17	Comment Noted	22

		<p>Belchertown State School through a Memorandum of Agreement with the Town of Belchertown and the Belchertown Economic Development Industrial Corporation (BEDIC). The new development, known as Carriage Grove, is planned to be a mixed use neighborhood including senior living and services, commercial, retail, and industrial uses, cultural amenities, and multi-family residential. The State Street / Maple Street Roadway Improvement Project will contribute towards better connectivity between the Carriage Grove neighborhood and the State Street corridor, the Public School complex and the historic Belchertown Common.</p> <p>The current condition of the 1.17 mile State Street / Maple Street corridor is poor, adequate bicycle and pedestrian facilities do not exist, and traffic congestion is severely affecting the vitality of businesses and development potential. The proposed project will provide minor widening, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at Turkey Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorists, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development. MassDevelopment urges the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.</p>			
<p>Robert L. Bulduc Pride 246 Cottage St., Springfield, MA 01104-4002</p>	<p>Belchertown 608412</p>	<p>I am writing to request that the State Street/Maple Street Roadway Improvement project (NO. 608412) in Belchertown be included in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The improvement project will provide essential updates to an essential corridor of travel. Currently, the 1.17 mile passageway is in poor condition. Adequate bicycle and pedestrian facilities do not exist. The lack of these in this area is particularly important as this is the primary travel route to the Eastern Hampshire District Courthouse. Traffic congestion is severely affecting the vitality of current businesses as well as the potential for new development.</p> <p>The proposed project will provide improvements to both infrastructure (minor widening, pavement rehabilitation, drainage) and overall travel (signal systems, safety improvements). The signal system improvements are at the intersections of State Street at Turkey Hill Road and State Street at Stadler Street. In my opinion, as a business owner and developer, there is no question these measures will greatly benefit the community and the region. The benefits will extend to existing residences and businesses, but also foster future development in the area, including approximately 150 acres of commercial property currently under planning by Mass Development and the town. This traffic improvement program is designed to reduce congestion and improve safety for all who travel along the road (whether by vehicle, bicycle or foot).</p> <p>Pride has been the owner of over 28 acres of land in Belchertown for over a dozen years and has witnessed the negative impacts of the current roadways, especially</p>	5/19/17	Comment Noted	23

		State Street and Maple Street. The current situation has limited the potential for development and has impacted current residences and businesses. Pride is very excited for the completion of this project and urge the members of the Metropolitan Planning ng Commission to work to keep this project funded in the FFY 2019 TIP. There are enormous benefits of this project to the town annd region.			
Marybeth DiNapoli Concerned and committed Belchertown Resident	Belchertown 608412	I am writing to you to show my support for the Roadway improvement project # 608412 for the State St/Maple St area of Belchertown in the fiscal year 2019 Transportation Improvement Program. As a resident of Belchertown for 15 years I have seen firsthand how the impacts of growth in the town have negatively impacted our roadways and traffic issues - especially on that area. It is my understanding that the project will include minor widening, drainage solutions, pavement rehabbing and added signals to that 1+ mile stretch of roadway. I believe this project will greatly benefit the town and the region. These improvements are an integral part of solving some of the current issues the town has faced as a byproduct of t's growth - while also providing for the safety of motorists, bicyclist and pedestrians as we move forward in town with future development of the commercial property currently planned along that stretch of road. I urge the members of the Metropolitan Planning Commission to strive to keep this project funded in the fiscal year 2019 Transportation Improvement Project. I am eagerly anticipating the completion of this project.	5/24/17	Comment noted	24
Nicholas O'Connor Belchertown Board of Selectmen	Belchertown 608412	I am writing to provide my support for the inclusion of the State Street/Maple Street Roadway Improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the 1.17 mile corridor is poor, adequate bicycle and pedestrian facilities do not exist, and traffic congestion is severely affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at Turkey Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the town. I have been a (Belchertown resident/business owner) for over (?) years and have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.	5/24/17	Comment noted	25
Worthington Board of Selectmen	Worthington 606912	The Worthington Selectboard is writing to express our support for the Reconstruction of Route 43 Project (#606912) in the Town of Worthington . As one of the two means of access into our Town, the 7.6 mile Route 43	5/30/17	Comment noted	26

	<p>represents a significant corridor to us and the region. The proposed improvements associated with this project will greatly enhance access for all roadway users.</p> <p>This project was initiated at the very end of 2011 and in April of this year the Town completed our 75% Design Submission to MassDOT. During this process we have committed \$618,200.00 of our Chapter 90 monies to the project.</p> <p>Because this is a major thoroughfare, even as we advance through the design stages with the end goal of landing in the TIP queue, it has been necessary to make repairs. Last year we spent almost \$200,000 to shim and level about three miles of the road.</p> <p>Please consider this very important local project for funding on the Draft TIP. Worthington is willing to work with MassDOT and MPO in order to fund the project by phasing or splitting it into two separate projects if necessary. Thank you very much for your consideration.</p>			
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In addition to the above changes, the Pioneer Valley Transit Authority requested that the following be included: The Pioneer Valley Transit Authority, the FTA Section 5307(c) applicant, has consulted with the Pioneer Valley Planning Commission and concurs that the TIP satisfies the public hearing requirements that pertain to the development of the Program of Projects for regular Section 5307, Urbanized Area Formula Program, grant application including the provision for public notice and the time established for public review and comment.

For FTA projects that are not routine; i.e. Section 5307 applications that required environmental assessment or an environmental impact statement, the public involvement provided herein for TIP review is not sufficient. Additional public involvement will be required by FTA prior to grant approval, as presented in the joint FHWA/FTR environmental regulations, 23 CFR-Part 771.

The Federal Aid (FA) and Non-Federal Aid (NFA) elements were separated into two components. The FA component of the TIP was endorsed by the MPO and the NFA component is included in the main body of the TIP, however, is not subject to federal planning rules.

III. FEDERAL COMPONENT

PIONEER VALLEY MPO ENDORSEMENT

PIONEER VALLEY MPO ENDORSEMENT SHEET

The signatures below signify that all members of the Pioneer Valley Region's Metropolitan Planning Organization, or their designees, have met on May 23, 2017 and discussed the following item for endorsement: The Pioneer Valley Region's 2018-2022 Transportation Improvement Program (TIP)

Massachusetts Department of Transportation (Mass DOT)

I, **Secretary of the Massachusetts Department of Transportation**, hereby

Endorse Do Not Endorse the above referenced item.

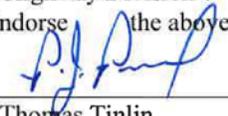

Stephanie Pollack
Secretary & CEO Mass DOT

5/23/17
Date

Massachusetts Department of Transportation Highway Division

I, **Acting Administrator of the Highway Division of MassDOT**, hereby

Endorse Do Not Endorse the above referenced item.

for 
Thomas Tinlin
Highway Administrator, Mass DOT

5/23/2017
Date

Pioneer Valley Planning Commission (PVPC)

I, **Chair of the Pioneer Valley Planning Commission**, hereby

Endorse Do Not Endorse the above referenced item.

Walter Gunn
Chair - PVPC

Date

Pioneer Valley Transit Authority (PVTA)

I, **Chair of the Pioneer Valley Transit Authority Advisory Board**, hereby

Endorse Do Not Endorse the above referenced item.


David Narkewicz
Chair- PVTA

5-23-17
Date

City of Holyoke

I, **Mayor of the City of Holyoke**, hereby

Endorse Do Not Endorse the above referenced item.


Alex Morse
Mayor-Holyoke

5-23-2017
Date

May 23, 2017 endorsement
PVMPO 2018 - 2022TIP

City of Chicopee

I, Mayor of the City of Chicopee, hereby

Endorse Do Not Endorse the above referenced item.



Richard Kos
Mayor-Chicopee

5-23-17
Date

Town of Agawam

I, Mayor of the Town of Agawam, hereby

Endorse Do Not Endorse the above referenced item.



Richard Cohen
Mayor-Agawam

23 MAY 2017
Date

Town of Amherst

I, Board of Selectmen member of the Town of Amherst, hereby

Endorse Do Not Endorse the above referenced item.



Douglas Slaughter
Selectman-Amherst

5/23/2017
Date

Town of Belchertown

I, Board of Selectmen member of the Town of Belchertown, hereby

Endorse Do Not Endorse the above referenced item.

George Archible
Selectman-Belchertown

Date

Town of Southampton

I, Board of Selectmen member of the Town of Southampton, hereby

Endorse Do Not Endorse the above referenced item.



Charles Kaniecki
Selectman-Southampton

MAY 23, 2017
Date

CERTIFICATION OF THE 3-C PLANNING PROCESS

In accordance with the Metropolitan Planning Final Rule, the Pioneer Valley MPO has completed its review and hereby certifies that the conduct of the 3-C Transportation Planning Process complies with the requirements of CFR 450.334 and includes activities to support the development and implementation of this TIP, the Regional Transportation Plan, and subsequent project development activities, as necessary and to the degree appropriate.

To reinforce this self certification, the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) conducted a certification review of the Pioneer Valley MPO planning process in 2015. The two day on-site review was preceded by a desk audit of the major planning documents completed as part of the planning process. Based on the certification review, the transportation planning process for the Pioneer Valley region was found to substantially meet the requirements of 23 CFR 450 Subpart C and 49 CFR 613.

PIONEER VALLEY MPO ENDORSEMENT SHEET

The signatures below signify that all members of the Pioneer Valley Region's Metropolitan Planning Organization, or their designees, have met on May 23, 2017 and discussed the following item for endorsement:

CERTIFICATION OF THE 3C PLANNING PROCESS

Concurrent with the submittal of the proposed TIP to the FHWA and the FTA, the MPO shall certify that the metropolitan transportation planning process is being carried out in accordance with all applicable requirements including:

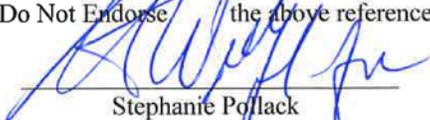
1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
2. In non-attainment and maintenance areas, sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93;
3. Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR part 21;
4. 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
5. Section 1101(b) of the SAFETEA-LU (Pub. L. 109-59) and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects;
6. 23 CFR Part 230, regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts
7. The provisions of US DOT and of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) and 49 CFR parts 27, 37, and 38;
8. The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
9. Section 324 of title 23 U.S.C. regarding the prohibition of discrimination based on gender; and
10. Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 27 regarding discrimination against individuals with disabilities.
11. Anti-lobbying restrictions found in 49 USC Part 20. No appropriated funds may be expended by a recipient to influence or attempt to influence an officer or employee of any agency, a Member of Congress, in connection with the awarding of any Federal contract.

May 23, 2017 endorsement
PVMPO 3C Self Certification

Massachusetts Department of Transportation (Mass DOT)

I, Secretary of the Massachusetts Department of Transportation, hereby

Endorse Do Not Endorse the above referenced item.

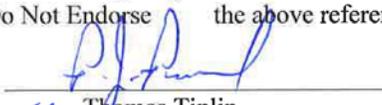

Stephanie Pollack
Secretary & CEO Mass DOT

5/23/17
Date

Massachusetts Department of Transportation Highway Division

I, Acting Administrator of the Highway Division of MassDOT, hereby

Endorse Do Not Endorse the above referenced item.

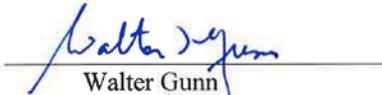

Thomas Tinlin
Highway Administrator, Mass DOT

5/23/2017
Date

Pioneer Valley Planning Commission (PVPC)

I, Chair of the Pioneer Valley Planning Commission, hereby

Endorse Do Not Endorse the above referenced item.

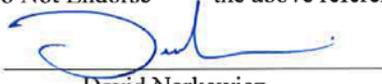

Walter Gunn
Chair - PVPC

5/23/17
Date

Pioneer Valley Transit Authority (PVTA)

I, Chair of the Pioneer Valley Transit Authority Advisory Board, hereby

Endorse Do Not Endorse the above referenced item.


David Narkewicz
Chair- PVTA

5/23/17
Date

City of Holyoke

I, Mayor of the City of Holyoke, hereby

Endorse Do Not Endorse the above referenced item.

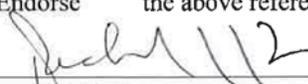

Alex Morse
Mayor-Holyoke

5/23/17
Date

May 23, 2017 endorsement
PVMPO 3C Self Certification

City of Chicopee

I, Mayor of the City of Chicopee, hereby
 Endorse Do Not Endorse the above referenced item.

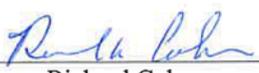


Richard Kos
Mayor-Chicopee

5-23-17
Date

Town of Agawam

I, Mayor of the Town of Agawam, hereby
 Endorse Do Not Endorse the above referenced item.

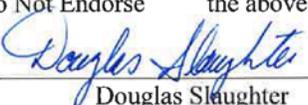


Richard Cohen
Mayor-Agawam

23 May 2017
Date

Town of Amherst

I, Board of Selectmen member of the Town of Amherst, hereby
 Endorse Do Not Endorse the above referenced item.

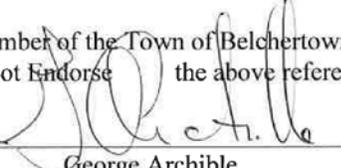


Douglas Slaughter
Selectman-Amherst

5/23/2017
Date

Town of Belchertown

I, Board of Selectmen member of the Town of Belchertown, hereby
 Endorse Do Not Endorse the above referenced item.

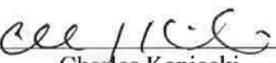


George Archible
Selectman-Belchertown

5/23/17
Date

Town of Southampton

I, Board of Selectmen member of the Town of Southampton, hereby
 Endorse Do Not Endorse the above referenced item.



Charles Kaniecki
Selectman-Southampton

MAY 23, 2017
Date

310 CMR 60.05: GLOBAL WARMING SOLUTIONS ACT REQUIREMENTS - ENDORSEMENT

The signatures below signify that all members of the Pioneer Valley Region's Metropolitan Planning Organization, or their designees, have met on May 23, 2017 and discussed the following item for endorsement:

This will certify that the 2018 – 2022 TIP for The Pioneer Valley Region's MPO is in compliance with all applicable requirements in the State Regulation 310 CMR 60.05: Global Warming Solutions Act Requirements for the Transportation Sector and the Massachusetts Department of Transportation. The regulation requires the Metropolitan Planning Organizations (MPOs) to:

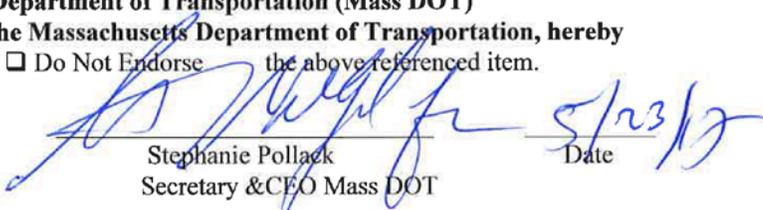
1. 310 CMR 60.05, 3(b)(1)(a): Evaluate and track the GHG emissions and impacts of RTPs and TIPs;
2. 310 CMR 60.05, 3(b)(1)(b): In consultation with MassDOT, develop and utilize procedures to prioritize and select projects in RTPs, TIPs, and STIPs based on factors that include GHG emissions and impacts;
3. 310 CMR 60.05, 3(b)(1)(c): Quantify net GHG emissions and impacts resulting from the projects in RTPs and TIPs and have made efforts to minimize GHG emissions and impacts;
4. 310 CMR 60.05, 3(b)(1)(d): Determine in consultation with the RPA that the appropriate planning assumptions used for GHG emissions modeling are consistent with local land use policies, or that local authorities have made documented and credible commitments to establishing such consistency;
5. 310 CMR 60.05, 4(a)(2)(a): Develop RTPs and TIPs;
6. 310 CMR 60.05, 4(a)(2)(b): Ensure that RPAs are using appropriate planning assumptions;
7. 310 CMR 60.05, 4(a)(2)(c): Perform regional GHG emissions analysis of RTPs and TIPs;
8. 310 CMR 60.05, 4(a)(2)(d): Calculate GHG emissions for RTPs and TIPs;
9. 310 CMR 60.05, 4(a)(2)(e): Develop public consultation procedures for GHG reporting and related GWSA requirements consistent with current and approved regional public participation plans;
10. 310 CMR 60.05, 4(c): Prior to making final endorsements on the RTPs, TIPs, STIPs, and projects included in these plans, MassDOT and the MPOs shall include the GHG Assessment and information on related GWSA activities in RTPs, TIPs, and STIPs and provide an opportunity for public review and comment on the RTPs, TIPs, and STIPs.
11. 310 CMR 60.05, 6(a): After a final GHG assessment has been made by MassDOT and the MPOs, MassDOT and the MPOs shall submit MPO-endorsed RTPs, TIPs or projects within 30 days of endorsement to the Department for review of the GHG assessment.

May 23, 2017 endorsement
PVMPO 2018 GHG

Massachusetts Department of Transportation (Mass DOT)

I, Secretary of the Massachusetts Department of Transportation, hereby

Endorse Do Not Endorse the above referenced item.

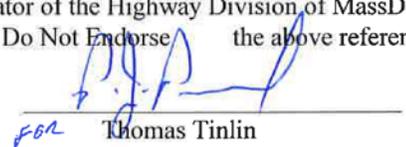

Stephanie Pollack
Secretary & CEO Mass DOT

5/23/17
Date

Massachusetts Department of Transportation Highway Division

I, Acting Administrator of the Highway Division of MassDOT, hereby

Endorse Do Not Endorse the above referenced item.

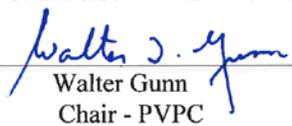
for

Thomas Tinlin
Highway Administrator, Mass DOT

5/23/2017
Date

Pioneer Valley Planning Commission (PVPC)

I, Chair of the Pioneer Valley Planning Commission, hereby

Endorse Do Not Endorse the above referenced item.

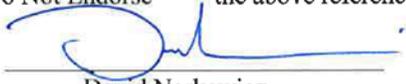

Walter Gunn
Chair - PVPC

5/23/17
Date

Pioneer Valley Transit Authority (PVTA)

I, Chair of the Pioneer Valley Transit Authority Advisory Board, hereby

Endorse Do Not Endorse the above referenced item.

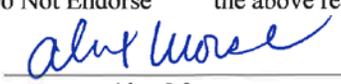

David Narkewicz
Chair- PVTA

5/23/17
Date

City of Holyoke

I, Mayor of the City of Holyoke, hereby

Endorse Do Not Endorse the above referenced item.


Alex Morse
Mayor-Holyoke

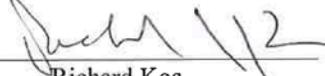
5-23-17
Date

May 23, 2017 endorsement
PVMPO 2018 GHG

City of Chicopee

I, Mayor of the City of Chicopee, hereby

Endorse Do Not Endorse the above referenced item.


Richard Kos
Mayor-Chicopee

5-23-17
Date

Town of Agawam

I, Mayor of the Town of Agawam, hereby

Endorse Do Not Endorse the above referenced item.


Richard Cohen
Mayor-Agawam

23 MAY 2017
Date

Town of Amherst

I, Board of Selectmen member of the Town of Amherst, hereby

Endorse Do Not Endorse the above referenced item.

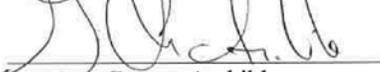

Douglas Slaughter
Selectman-Amherst

5/23/2017
Date

Town of Belchertown

I, Board of Selectmen member of the Town of Belchertown, hereby

Endorse Do Not Endorse the above referenced item.


George Archible
Selectman-Belchertown

5/23/17
Date

Town of Southampton

I, Board of Selectmen member of the Town of Southampton, hereby

Endorse Do Not Endorse the above referenced item.


Charles Kaniecki
Selectman-Southampton

MAY 23, 2017
Date

FUNDING INFORMATION

FEDERAL AID TARGETS

The MassDOT provided the revised PVPC federal aid highway funding targets for the region on February 23, 2017. The targets are provided for FFYs 2018 through 2022 and represent both the federal aid portion and respective state match. (See Appendix A for additional information).

During the development of the TIP PVPC staff worked with MassDOT, PVTA, Municipalities with active projects, and project designers to develop current year project cost estimates and design status. Once the draft TIP was programmed, Highway projects funded with regional target funds are inflated four percent per year starting in FFY2019 in order to reflect year of expenditure (YOE).

Federal financial resources for transit are projected using appropriated amounts provided by the FTA for the funding categories of Sections 5307 and 5311. Section 5309 funds are based on estimates of what will be reasonably available. Due to the discretionary nature of these categories, project line items are maintained in the fourth year of the TIP until an actual grant award is tendered. Section 5310 is programmed through the state and is awarded on a discretionary basis. Projections are based on past experience and the funding level provided by the State.

FEDERAL AID FINANCIAL CONSTRAINT

The federal aid element of the TIP is financially constrained according to the definition in Federal Register 23 CFR Part 450.324. The federal aid projects programmed for this region reasonably meet the federal aid funding targets provided for the region. Only projects for which funds can reasonably be expected have been included. Table 5 (highway and Table 6 (transit) shows both these target amounts and the amounts programmed for highway projects during fiscal years 2018-2022. Projects that are not charged against the funding targets are not presented in the table. These projects include: Statewide items; and special funding projects. Table 4 shows the projected transit funds for FFY 2018 – 2022.

Table 5 Federal Highway Financial Plan

	2018	2019	2020	2021	2022	GRAND TOTAL
Total Target Funds	\$23,910,460	\$24,855,247	\$24,662,830	\$25,233,594	\$25,546,001	\$124,208,132
Total STP	\$19,581,350	\$20,526,137	\$20,333,720	\$20,904,484	\$21,216,891	\$102,562,582
Total CMAQ	\$2,702,480	\$2,702,480	\$2,702,480	\$2,702,480	\$2,702,480	\$13,512,400
Total HSIP	\$1,080,992	\$1,080,992	\$1,080,992	\$1,080,992	\$1,080,992	\$5,404,960
Total TAP	\$545,638	\$545,638	\$545,638	\$545,638	\$545,638	\$2,728,190
Total of Programmed	\$22,460,516	\$24,580,869	\$23,915,555	\$25,233,595	\$21,657,208	\$117,847,743
Programmed STP	\$18,131,406	\$20,251,759	\$19,586,445	\$20,904,485	\$17,328,098	\$96,202,193
Programmed CMAQ	\$2,702,480	\$2,702,480	\$2,702,480	\$2,702,480	\$2,702,480	\$13,512,400
Programmed HSIP	\$1,080,992	\$1,080,992	\$1,080,992	\$1,080,992	\$1,080,992	\$5,404,960
Programmed TAP	\$545,638	\$545,638	\$545,638	\$545,638	\$545,638	\$2,728,190
Difference	\$1,449,944	\$274,378	\$747,275	-\$1	\$3,888,793	\$6,360,389

The funding targets were programmed to projects according to project priority rating. Projects were programmed slightly beyond the program target with the understanding that the targets are not earmarks and program levels are expected to fluctuate.

The TIP reflects an emphasis on the maintenance and operation of the current transportation system with the ability to provide capital improvements. The federal aid program for each year consists of almost entirely of maintenance projects for the present transportation system.

The transit program outlined in Table 6 represents both apportioned items as well as discretionary items. The total programmed amount represents both the federal, state and local contributions.

Table 6 Federal Transit Financial Plan

	2018	2019	2020	2021	2022	GRAND TOTAL
Transit Capital Investment	\$56,739,604	\$27,290,659	\$19,243,335	\$21,226,130	\$21,261,043	\$145,760,771
5307	\$18,460,776	\$15,085,036	\$17,771,998	\$20,118,969	\$20,150,132	\$91,586,911
5309	\$0	\$0	\$0	\$0	\$0	\$0
5310	\$0	\$0	\$0	\$0	\$0	\$0
5311	\$0	\$0	\$0	\$0	\$0	\$0
5337	\$0	\$0	\$0	\$0	\$0	\$0
5339	\$1,499,331	\$1,855,761	\$1,471,337	\$1,107,161	\$1,110,911	\$7,044,501
5320	\$0		\$0	\$0	\$0	\$0
Other Federal	\$0		\$0	\$0	\$0	\$0
Other Non Federal	\$36,779,497	\$10,349,862	\$0	\$0	\$0	\$47,129,359

The transit projects programmed focus on maintaining and operating the present system while implementing the recommendations of the Comprehensive Service Analysis (CSA) completed in the spring of 2014. For more information regarding the CSA please go to PVTA website. www.pvta.com .

THE GEOGRAPHIC DISTRIBUTION OF FEDERAL TARGET FUNDS IN THE PIONEER VALLEY METROPOLITAN PLANNING REGION – 2013 TO 2017

PVPC staff reviewed historical project programming for the Transportation Improvement Program (TIP) in order to show the geographic distribution of Federal Target funds in the Pioneer Valley Metropolitan Planning Organization (MPO) region. PVPC staff reviewed year 1 section 1A (Federal Aid Target Projects) for the past 5 years (2013 through 2017) TIP. Table 7 provides the results of this analysis broken out by MPO sub-region while Table 2 provides the results broken out by municipality. Please see page 3 for MPO region map and additional information regarding the composition of the MPO.

As can be seen in Tables 7 and 8 the PVMPO has successfully programmed 34 projects in 19 communities over the past 5 years. The total funding commitment for these projects was just over \$90 million. During this time the PVMPO averaged \$18 million per year in funding. The average cost per project was \$2.6 million (increase from \$2.4 million last year) or 6.8 projects per year on

average. Over the past five years, the PVMPO has committed federal funds for transportation projects in almost half (44%) of the communities in the region.

Table 7 Projects Completed with Federal Target Funds by MPO Sub-Region (2013-2017)

MPO Region	2013	2014	2015	2016	2017	Total Projects	Total Funds	% Funds	Population	
Sub-Region 1	2	3	2	2	1	10	\$18,689,801	20.73%	248,238	39.94%
Sub-Region 2	2	0	0	2	1	5	\$19,118,012	21.21%	107,425	17.28%
Sub-Region 3	2	3	1	0	2	8	\$13,554,046	15.03%	105,185	16.92%
Sub-Region 4	1	2	1	3	1	8	\$30,981,892	34.37%	132,675	21.35%
Sub-Region 5	1	0	1	0	1	3	\$7,807,300	8.66%	28,047	4.51%
Totals	8	8	5	7	6	34	\$90,151,051		621,570	

Source: PVPC TIP archives

As can be seen in Table 7, the distribution of funds across the region is similar to the distribution of population across the region. Sub-region 4 received 13% more funding than population over the past 5 years. This was due to the MPO commitment to fund two large projects, one in Belchertown (Route 181 reconstruction for \$9 million) and one in project in Pelham (Amherst Road reconstruction for \$7.2 million). At the request of the MPO, the Pelham project was split in half and funded over two years (2013 and 2015).

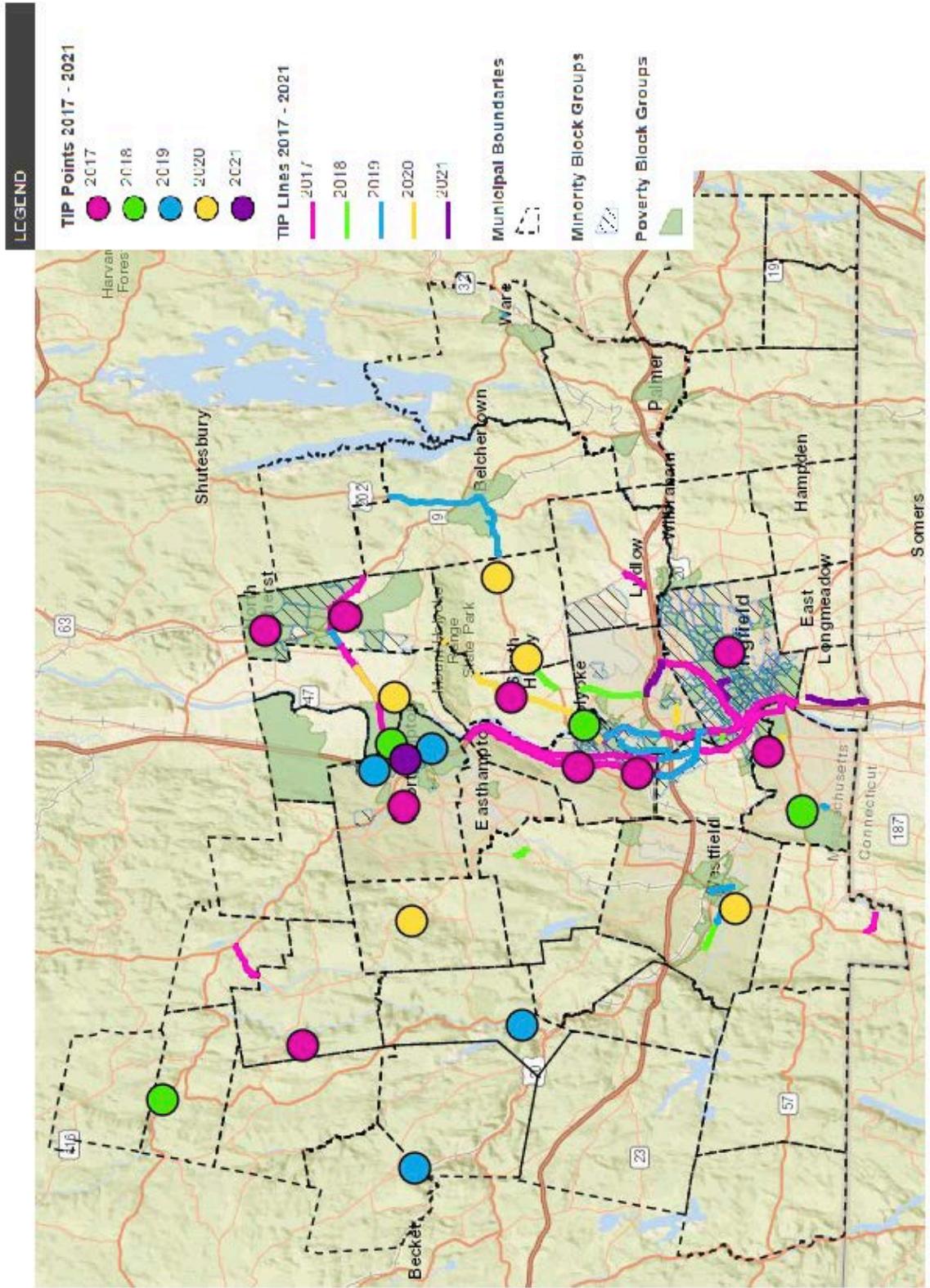
The PVMPO is committed to funding transportation improvement projects across the entire region. The community data provided in Table 8 shows the extent to which this has been achieved over the past 5 years. The PVMPO has accomplished this while supporting communities and projects of all shape and size. With the implementation of the new Transportation Evaluation Criteria (TEC) as well as other regional and state initiatives, the PVMPO is positioned to be able to continue to make decisions that will be equitable for the entire region.

Table 8 Projects Completed with Federal Target Funds by Municipality (2013-2017)

Town	2013	2014	2015	2016	2017	Total Projects	Total Funds	% Funds
Agawam						0	\$0	0.00%
Amherst					1	1	\$1,204,050	1.34%
Belchertown		1				1	\$9,551,728	10.60%
Blandford							\$0	0.00%
Brimfield				1		1	\$3,500,000	3.88%
Chester							\$0	0.00%
Chesterfield							\$0	0.00%
Chicopee	1	1				2	\$3,229,316	3.58%
Cummington			1			1	\$1,500,000	1.66%
East Longmeadow							\$0	0.00%
Easthampton	1	1				2	\$5,317,965	5.90%
Goshen					1		\$4,345,300	4.82%
Granby							\$0	0.00%
Granville							\$0	0.00%
Hadley			1			1	\$4,038,060	4.48%
Hampden							\$0	0.00%
Hatfield							\$0	0.00%
Holland							\$0	0.00%
Holyoke	1				1	2	\$3,052,831	3.39%
Huntington							\$0	0.00%
Longmeadow		1		1		2	\$3,512,048	3.90%
Ludlow					1		\$5,848,350	6.49%
Middlefield							\$0	0.00%
Monson							\$0	0.00%
Montgomery							\$0	0.00%
Northampton	1	2			1	4	\$2,993,971	3.32%
Palmer							\$0	0.00%
Pelham	1		1			2	\$7,277,338	8.07%
Plainfield	1					1	\$1,962,000	2.18%
Russell							\$0	0.00%
South Hadley						0	\$0	0.00%
Southampton							\$0	0.00%
Southwick					1		\$7,172,979	7.96%
Springfield		2	2	2		6	\$12,407,654	13.76%
Tolland							\$0	0.00%

Wales							\$0	0.00%
Ware							\$0	0.00%
West Springfield	1					1	\$1,247,950	1.38%
Westfield	1			2		3	\$10,697,083	11.87%
Westhampton							\$0	0.00%
Wilbraham				1		1	\$1,292,428	1.43%
Williamsburg							\$0	0.00%
Worthington							\$0	0.00%
Totals	8	8	5	7	6	34	\$90,151,051	100.00%

Source: PVPC TIP Archive



A higher resolution version of this figure can be found here:
<http://pvpc.maps.arcgis.com/apps/StorytellingTextLegend/index.html?appid=f54bf3b6dfd04033980dcd9a898b85a3>

IV. FEDERAL AID REGIONAL PROJECT LISTINGS

The following is a complete listing of the Pioneer Valley Federally Funded Transportation Improvement Projects for Fiscal Years 2018-2022.

ORGANIZATION OF PROJECT LISTINGS

Each project in the TIP contains the following information:

MassDOT Project ID - Project identification numbers given by the Massachusetts Highway Department.

MassDOT Project Description – Includes Town or city in which a project is located, and a description of work to be funded under the project.

MassDOT District – The MassDOT sub-Region where the project is located, for PVMPO projects will be in either District 1 or District 2.

Funding Source - The funding category from which funding is expected.

Total Programmed Funds - The total funding for the project under the specified funding source.

Federal Funds - The amount of federal dollars allocated for project construction.

Non-Federal Funds - The amount of non-federal dollars allocated to the project.

Additional Information – Provides additional project information including design status, Transportation Evaluation Criteria (TEC) Score, and YOE Cost.

Regional Target - The total combined Federal and State dollar amount provided for project funding.

TEC Score – This score is based on criteria developed rank the regional significant of each eligible TIP project

Table 9 Summary of All Project Funded in Section 1 A Federal Aid Target Projects

FFY	Municipality	Project Description	ID	Additional Information	Total Cost
2018	Agawam	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	604203	60 TEC, 25% (YOE \$3,288,000) HSIP, STP	\$3,288,000
2018	Northampton	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	604597	65 TEC 75% (YOE \$7,438,490) STP, TAP, CMAQ	\$7,438,490
2018	Westfield	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	603449	57.5 TEC, 25% Design, (HPP-4287 \$2,503,688 Total with Match) (YOE \$6,133,933) HPP, STP	\$3,630,245
2018	Southampton	SOUTHAMPTON- RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3,801 FEET)	604738	18.8 TEC Score 75% (YOE \$2,710,700) STP	\$2,710,700
2018	Holyoke	HOLYOKE- RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	607256	46 TEC Score 25% (YOE \$3,758,081) STP	\$2,283,489
2018	Holland	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	604962	26.5 TEC Score 25% (YOE \$1,140,089) STP	\$1,409,592
2018	Multiple	AMHERST- HADLEY- NORTHAMPTON- TRANSIT SIGNAL PRIORITY UPGRADES AT VARIOUS LOCATIONS	608786	35 TEC Score Design is underway (YOE \$1,200,000) STP	\$1,200,000
2019	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	608411	47.5 TEC Score 25% (YOE \$1,934,000) STP	\$1,934,000
2019	Agawam	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	600513	27 TEC Score 25% (YOE \$2,323,443) STP	\$2,505,613
2019	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	607987	55 TEC Score 25% (YOE \$2,262,816) STP, TAP, CMAQ	\$2,262,816
2019	Multiple	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES)	604209	51 TEC Score Pre 25% (YOE \$4,636,476) STP	\$4,636,143
2019	Amherst	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	608084	49 TEC Score Pre 25% (YOE \$1,305,886) STP	\$1,305,886

2019	Northampton	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL	608236	66.5 TEC 25% (YOE \$7,152,411) STP, CMAQ	\$7,152,411
2019	Belchertown	BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	608412	55.5 TEC (YOE \$4,784,000) STP 25% Design submitted March 2017	\$4,784,000
2020	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	607773	48.5 TEC Score 25% (YOE 6,531,379) STP, CMAQ, TAP, STP	\$5,898,533
2020	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	605032	50 TEC Pre 25% (YOE \$24,840,000) CMAQ, STP A/C \$12,492,652 FFY2021	\$5,742,834
2020	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE AVENUE, COTTAGE AND HARVEY STREETS	608718	53 TEC Score PRE 25% (YOE \$2,229,021) STP	\$2,229,021
2020	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT COTTAGE STREET, INDUSTRY AVENUE AND ROBBINS ROAD	608782	49.5 TEC Score PRE 25% (YOE \$1,944,000) STP	\$1,944,000
2020	Chicopee	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	604434	49 25% STP, (YOE \$8,701,254)	\$8,101,167
2021	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	605032	50 TEC Pre 25% (YOE \$24,840,000) (\$12,347,348 in FFY 2020) \$12,492,652 in FFY2021 CMAQ, STP Fund A/C	\$19,097,166
2021	Northampton	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	607502	65 TEC, 25% STP, CMAQ (YOE \$3,702,674)	\$3,854,765
2021	Easthampton	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	608577	62 TEC Pre 25% STP, CMAQ (YOE \$2,281,664)	\$2,281,664
2022	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	608374	65 TEC Pre 25% Score STP, TAP, HSIP, CMAQ (YOE \$16,564,800)	\$16,564,800
2022	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	606895	42 TEC 25% (YOE \$1,371,297) STP	\$1,608,808
2022	Holyoke	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	606156	TEC 47.5 Pre 25% STP (YOE \$3,349,615)	\$3,483,600

Table 10 Federally Funded Projects Year 2018

Amendment / Adjustment Type ▼	STIP Program ▼	MassDOT Project ID ▼	Metropolitan Planning Organization ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼ <i>Present information as follows, if applicable: a) Planning / Design / or Construction; b) total project cost and funding sources used; c) advance construction status; d) MPO project score; e) name of entity receiving a transfer; f) name of entity paying the non-state non-federal match; g) earmark details; h) TAP project proponent; i) other information</i>
▶ Section 1A / Regionally Prioritized Projects											
▶ Regionally Prioritized Projects											
	Intersection improvements program	604203	Pioneer Valley	Agawam	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	2	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099	Construction / (YOE \$3,288,000 HSIP, CMAQ, STP) / 60 TEC / 25%
	Intersection improvements program	604203	Pioneer Valley	Agawam	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	2	CMAQ	\$ 1,707,008	\$ 1,365,606	\$ 341,402	Construction / (YOE \$3,288,000 HSIP, CMAQ, STP) / 60 TEC / 25%
	Intersection improvements program	604203	Pioneer Valley	Agawam	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	2	STP	\$ 500,000	\$ 400,000	\$ 100,000	Construction / (YOE \$3,288,000 HSIP, CMAQ, STP) / 60 TEC / 25%
	Roadway reconstruction program	604597	Pioneer Valley	Northampton	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	2	TAP	\$ 545,638	\$ 436,510	\$ 109,128	Construction / (YOE \$7,438,490 STP, TAP, CMAQ) / 65 TEC / Northampton is TAP project proponent / 75%
	Roadway reconstruction program	604597	Pioneer Valley	Northampton	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	2	STP	\$ 6,397,380	\$ 5,117,904	\$ 1,279,476	Construction / (YOE \$7,438,490 STP, TAP, CMAQ) / 65 TEC / Northampton is TAP project proponent / 75%
	Roadway reconstruction program	604597	Pioneer Valley	Northampton	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	2	CMAQ	\$ 495,472	\$ 396,378	\$ 99,094	Construction / (YOE \$7,438,490 STP, TAP, CMAQ) / 65 TEC / Northampton is TAP project proponent / 75%
	Roadway reconstruction program	603449	Pioneer Valley	Westfield	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	2	STP	\$ 3,630,245	\$ 2,904,196	\$ 726,049	Construction / (YOE \$6,133,933 HPP, STP) 57.5 TEC / (Demo ID-MA206, HPP-4287 \$2,503,688 with Match) / 25%
	Roadway reconstruction program	604738	Pioneer Valley	Southampton	SOUTHAMPTON- RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3,801 FEET)	2	STP	\$ 2,710,700	\$ 2,168,560	\$ 542,140	Construction / (YOE \$2,710,700 STP) / 18.8 TEC / 75%
	Roadway reconstruction program	607256	Pioneer Valley	Holyoke	HOLYOKE- RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	2	STP	\$ 2,283,489	\$ 1,826,791	\$ 456,698	Construction / (YOE \$2,283,489 STP) / 46 TEC / 25%
	Roadway reconstruction program	604962	Pioneer Valley	Holland	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	2	STP	\$ 1,409,592	\$ 1,127,674	\$ 281,918	Construction / (YOE \$1,409,592 STP) / 26.5 TEC / 25%
	Intersection Improvements	608786	Pioneer Valley	Multiple	AMHERST- HADLEY- NORTHAMPTON- TRANSIT SIGNAL PRIORITY UPGRADES AT VARIOUS LOCATIONS	2	STP	\$ 1,200,000	\$ 960,000	\$ 240,000	Construction / YOE \$1,200,000 STP) / 35 TEC / Design is underway
	Flex to FTA	PV0005	Pioneer Valley	PVTA	PVTA P21 Express Service Between Union Station in Springfield and the Holyoke Transportation Center	2	CMAQ	\$ 500,000	\$ 400,000	\$ 100,000	Operating / Flex CMAQ funds to FTA for operation of P21 Express
Regionally Prioritized Projects subtotal ▶								\$ 22,460,516	\$ 18,076,512	\$ 4,384,004	◀ 80% Federal + 20% Non-Federal

Table 10: Federally Funded Projects Year 2018 (Continued)

Section 1A / Fiscal Constraint Analysis															
										Total Regional Federal Aid Funds Programmed ▶	\$ 22,460,516	\$ 23,910,460	◀ Total	\$ 1,449,944	Target Funds Available
										STP programmed ▶	\$ 18,131,406	\$ 19,581,351	◀ Max STP	\$ 1,449,945	STP available
										HSIP programmed ▶	\$ 1,080,992	\$ 1,080,992	◀ Min. HSIP	\$ (0)	HSIP recommended met
										CMAQ programmed ▶	\$ 2,702,480	\$ 2,702,480	◀ Min. CMAQ	\$ (0)	CMAQ recommended met
										TAP programmed ▶	\$ 545,638	\$ 545,638	◀ Min. TAP	\$ (1)	TAP amount exceeded!
										Remaining HSIP, CMAQ, and TAP Funds	\$ 1,449,944				
Section 1B / Earmark or Discretionary Grant Funded Projects															
Other Federal Aid															
	Earmark Discretionary	603449	Pioneer Valley	Westfield	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	2	HPP	\$ 2,503,688	\$ 2,002,950	\$ 500,738	Construction / (YOE \$6,133,933 HPP, STP) 57.5 TEC / (Demo ID-MA206, HPP-4287 \$2,503,688 with Match) / 25%				
	Earmark Discretionary	Project #	Pioneer Valley	Municipalities	Description	District	HPP	\$ -	\$ -	\$ -					
								Other Federal Aid subtotal ▶	\$ 2,503,688	\$ 2,002,950	\$ 500,738	◀ Funding Split Varies by Funding Source			
Section 2A / State Prioritized Reliability Projects															
Bridge Program / Inspections															
	Bridge Program	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -					
								Bridge Program / Inspections subtotal ▶	\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source			
Bridge Program / Off-System															
	Bridge Program	Project #	MPO	Municipalities	Description	District	STP-BR-OFF	\$ -	\$ -	\$ -					
								Bridge Program / Off-System subtotal ▶	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal			
Bridge Program / On-System (NHS)															
	Bridge Program	600936	Pioneer Valley	Holyoke	HOLYOKE- BRIDGE REPLACEMENT, H-21-018, LYMAN STREET OVER FIRST LEVEL CANAL	2	NHPP-On	\$ 11,762,603	\$ 9,410,082	\$ 2,352,521					
								Bridge Program / On-System (NHS) subtotal ▶	\$ 11,762,603	\$ 9,410,082	\$ 2,352,521	◀ Funding Split Varies by Funding Source			
Bridge Program / On-System (Non-NHS)															
	Bridge Program	PV0002	Pioneer Valley	Palmer	PALMER - BRIDGE REHABILITATION, P-01-005, MAIN STREET OVER QUABOAG RIVER	2	NHPP-Off	\$ 3,000,000	\$ 2,400,000	\$ 600,000					
								Bridge Program / On-System (Non-NHS) subtotal ▶	\$ 3,000,000	\$ 2,400,000	\$ 600,000	◀ 80% Federal + 20% Non-Federal			
Bridge Program / Systematic Maintenance															
	Bridge Program	607939	Pioneer Valley	Cummington	CUMMINGTON- BRIDGE MAINTENANCE, C-21-025, ROUTE 9 OVER THE WESTFIELD RIVER	1	NHPP-Off	\$ 312,000	\$ 249,600	\$ 62,400					
								Bridge Program / Systematic Maintenance subtotal ▶	\$ 312,000	\$ 249,600	\$ 62,400	◀ Funding Split Varies by Funding Source			
Interstate Pavement															
	Interstate Pavement	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -					
								Interstate Pavement subtotal ▶	\$ -	\$ -	\$ -	◀ 90% Federal + 10% Non-Federal			
Non-Interstate Pavement															
	Non-Interstate Pavement	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -					
								Non-Interstate Pavement subtotal ▶	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal			

Table 10: Federally Funded Projects Year 2018 (Continued)

► Roadway Improvements											
Roadway Improvements	Project #	MPO	Municipalities	Description	District	STP	\$	\$	\$		
							Roadway Improvements subtotal ►	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Safety Improvements											
Safety Improvements	Project #	MPO	Municipalities	Description	District	STP	\$	\$	\$		
							Safety Improvements subtotal ►	\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source
► Section 2B / State Prioritized Modernization Projects											
► ADA Retrofits											
ADA Retrofits	Project #	MPO	Municipalities	Description	District	STP	\$	\$	\$		
							ADA Retrofits subtotal ►	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Intersection Improvements											
Intersection Improvements	Project #	MPO	Municipalities	Description	District	CMAQ	\$	\$	\$		
							Intersection Improvements subtotal ►	\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source
► Intelligent Transportation Systems											
Intelligent Transportation Systems	Project #	MPO	Municipalities	Description	District	NHPP	\$	\$	\$		
							Intelligent Transportation System subtotal ►	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Roadway Reconstruction											
Roadway Reconstruction	Project #	MPO	Municipalities	Description	District	CMAQ	\$	\$	\$		
							Roadway Reconstruction subtotal ►	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Section 2C / State Prioritized Expansion Projects											
► Bicycles and Pedestrians											
Bicycles and Pedestrians	Project #	MPO	Municipalities	Description	District	CMAQ	\$	\$	\$		
	607589	Pioneer Valley	Springfield	SPRINGFIELD- NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER THE CONNECTICUT RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES CONSTRUCTION OF NEW UNDERPASS S-24-044	2	CMAQ	\$ 7,062,111	\$ 5,649,689	\$ 1,412,422		Construction / PSAC score 33
							Bicycles and Pedestrians subtotal ►	\$ 7,062,111	\$ 5,649,689	\$ 1,412,422	◀ 80% Federal + 20% Non-Federal
► Capacity											
Capacity	Project #	MPO	Municipalities	Description	District	CMAQ	\$	\$	\$		
							Capacity subtotal ►	\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source
► Section 3 / Planning / Adjustments / Pass-throughs											
► Planning / Adjustments / Pass-throughs											
Planning / Adjustments / Pass-throughs	Project #	MPO	Municipalities	Description	District	NHPP	\$	\$	\$		
							Other Statewide Items subtotal ►	\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

Table 10: Federally Funded Projects Year 2018 (Continued)

► Section 4 / Non-Federally Aided Projects															
► Non-Federally Aided Projects															
	Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$	-	\$	-				
								Non-Federal Aid subtotal ►		\$	-	\$	-	◀ 100% Non-Federal	
2018 Summary								TIP Section 1 - TIP Section 4:		Total of All					
								3: ▼		▼		Projects ▼			
								Total ►	\$	47,100,918	\$	-	\$	47,100,918	◀ Total Spending in Region
								Federal Funds ►	\$	37,788,833	\$	-	\$	37,788,833	◀ Total Federal Spending in Region
								Non-Federal Funds ►	\$	9,312,084	\$	-	\$	9,312,084	◀ 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>

Table 11: Federally Funded Projects 2019

Amendment / Adjustment Type ▼	STIP Program ▼	MassDOT Project ID ▼	Metropolitan Planning Organization ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼ <i>Present information as follows, if applicable: a) Planning / Design / or Construction; b) total project cost and funding sources used; c) advance construction status; d) MPO project score; e) name of entity receiving a transfer; f) name of entity paying the non-state non-federal match; g) earmark details; h) TAP project proponent; i) other information</i>
▶ Section 1A / Regionally Prioritized Projects											
▶ Regionally Prioritized Projects											
	Intersection improvements program	608411	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	2	STP	\$ 853,008	\$ 682,406	\$ 170,602	Construction / (YOE \$1,934,000 STP) / 47.5 TEC / 25%
	Intersection improvements program	608411	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	2	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099	Construction / (YOE \$1,934,000 STP) / 47.5 TEC / 25%
	Roadway reconstruction program	600513	Pioneer Valley	Agawam	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	2	STP	\$ 2,505,613	\$ 2,004,490	\$ 501,123	Construction / (YOE \$2,505,613 STP) / 27 TEC / 25%
	Intersection improvements program	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	CMAQ	\$ 1,000,000	\$ 800,000	\$ 200,000	Construction / (YOE \$2,262,816) STP, TAP, CMAQ) / 55 TEC / 25% / Town of Ware is TAP proponent
	Intersection improvements program	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	TAP	\$ 545,638	\$ 436,510	\$ 109,128	Construction / (YOE \$2,262,816) STP, TAP, CMAQ) / 55 TEC / 25% / Town of Ware is TAP proponent
	Intersection improvements program	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	STP	\$ 717,178	\$ 573,742	\$ 143,436	Construction / (YOE \$2,262,816) STP, TAP, CMAQ) / 55 TEC / 25% / Town of Ware is TAP proponent
	Roadway reconstruction program	604209	Pioneer Valley	Multiple	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES)	2	STP	\$ 4,636,143	\$ 3,708,914	\$ 927,229	Construction / (YOE \$4,636,143 STP) / 51 TEC / Pre 25%
	Roadway reconstruction program	608084	Pioneer Valley	Amherst	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	2	STP	\$ 1,305,886	\$ 1,044,709	\$ 261,177	Construction / (YOE \$1,305,886 STP) / 49 TEC / Pre 25%
	Roadway reconstruction program	608236	Pioneer Valley	Northampton	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL	2	CMAQ	\$ 1,702,480	\$ 1,361,984	\$ 340,496	Construction / (YOE \$7,152,411 STP, CMAQ) / 66.5 TEC / 25%
	Roadway reconstruction program	608236	Pioneer Valley	Northampton	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL	2	STP	\$ 5,449,931	\$ 4,359,945	\$ 1,089,986	Construction / (YOE \$7,152,411 STP, CMAQ) / 66.5 TEC / 25%
	Roadway reconstruction program	608412	Pioneer Valley	Belchertown	BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	2	STP	\$ 4,784,000	\$ 3,827,200	\$ 956,800	Construction / (YOE \$4,784,000 STP) / 55.5 TEC / 25% Design submitted March 2017
Regionally Prioritized Projects subtotal ▶								\$ 24,580,869	\$ 19,772,794	\$ 4,808,075	◀ 80% Federal + 20% Non-Federal

Table 11: Federally Funded Projects Year 2019 (Continued)

▶ Section 1A / Fiscal Constraint Analysis																																																																					
<p>Section 1A Instructions: MPO Template Name) Choose Regional Name from dropdown list to populate header and MPO column; Column C) Enter ID from ProjectInfo; Column E) Choose Municipality Name from dropdown list; Column H) Choose the Funding Source being used for the project - if multiple funding sources are being used enter multiple lines; Column I) Enter the total amount of funds being programmed in this fiscal year and for each funding source; Column J) Federal funds autocalculates. Please verify the amount and only change if needed for flex. Column K) Non-federal funds autocalculates. Please verify the split/match - if matching an FTA flex, coordinate with Rail & Transit Division before programming; Column L) Enter Additional Information as described - please do not use any other format.</p>																																																																					
Total Regional Federal Aid Funds Programmed ▶																																																																					
<table border="0" style="width: 100%;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">STP programmed ▶</td> <td style="width: 15%;">\$ 24,580,869</td> <td style="width: 15%;">\$ 24,855,247</td> <td style="width: 15%;">◀ Total Budget</td> <td style="width: 15%;">\$ 274,378</td> <td style="width: 15%;">Target Funds Available</td> <td colspan="3"></td> </tr> <tr> <td></td> <td></td> <td>\$ 20,251,759</td> <td>\$ 20,526,138</td> <td>◀ Max STP</td> <td>\$ 274,379</td> <td>STP available</td> <td colspan="3"></td> </tr> <tr> <td></td> <td>HSIP programmed ▶</td> <td>\$ 1,080,992</td> <td>\$ 1,080,992</td> <td>◀ Min. HSIP</td> <td>\$ (0)</td> <td>HSIP recommended met</td> <td colspan="3"></td> </tr> <tr> <td></td> <td>CMAQ programmed ▶</td> <td>\$ 2,702,480</td> <td>\$ 2,702,480</td> <td>◀ Min. CMAQ</td> <td>\$ (0)</td> <td>CMAQ recommended met</td> <td colspan="3"></td> </tr> <tr> <td></td> <td>TAP programmed ▶</td> <td>\$ 545,638</td> <td>\$ 545,638</td> <td>◀ Min. TAP</td> <td>\$ (1)</td> <td>TAP amount exceeded!</td> <td colspan="3"></td> </tr> <tr> <td colspan="10" style="text-align: right;">Remaining HSIP, CMAQ, and TAP Funds \$ 274,378</td> </tr> </table>											STP programmed ▶	\$ 24,580,869	\$ 24,855,247	◀ Total Budget	\$ 274,378	Target Funds Available						\$ 20,251,759	\$ 20,526,138	◀ Max STP	\$ 274,379	STP available					HSIP programmed ▶	\$ 1,080,992	\$ 1,080,992	◀ Min. HSIP	\$ (0)	HSIP recommended met					CMAQ programmed ▶	\$ 2,702,480	\$ 2,702,480	◀ Min. CMAQ	\$ (0)	CMAQ recommended met					TAP programmed ▶	\$ 545,638	\$ 545,638	◀ Min. TAP	\$ (1)	TAP amount exceeded!				Remaining HSIP, CMAQ, and TAP Funds \$ 274,378									
	STP programmed ▶	\$ 24,580,869	\$ 24,855,247	◀ Total Budget	\$ 274,378	Target Funds Available																																																															
		\$ 20,251,759	\$ 20,526,138	◀ Max STP	\$ 274,379	STP available																																																															
	HSIP programmed ▶	\$ 1,080,992	\$ 1,080,992	◀ Min. HSIP	\$ (0)	HSIP recommended met																																																															
	CMAQ programmed ▶	\$ 2,702,480	\$ 2,702,480	◀ Min. CMAQ	\$ (0)	CMAQ recommended met																																																															
	TAP programmed ▶	\$ 545,638	\$ 545,638	◀ Min. TAP	\$ (1)	TAP amount exceeded!																																																															
Remaining HSIP, CMAQ, and TAP Funds \$ 274,378																																																																					
▶ Section 1B / Earmark or Discretionary Grant Funded Projects																																																																					
▶ Other Federal Aid																																																																					
	Earmark Discretionary	Project #	Pioneer Valley	Municipalities	Description	District	HPP	\$ -	\$ -	\$ -																																																											
	Earmark Discretionary	Project #	Pioneer Valley	Municipalities	Description	District	HPP	\$ -	\$ -	\$ -																																																											
Other Federal Aid subtotal ▶																																																																					
\$ - \$ - \$ - ◀ Funding Split Varies by Funding Source																																																																					
▶ Section 2A / State Prioritized Reliability Projects																																																																					
▶ Bridge Program / Inspections																																																																					
	Bridge Program	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -																																																											
Bridge Program / Inspections subtotal ▶																																																																					
\$ - \$ - \$ - ◀ Funding Split Varies by Funding Source																																																																					
▶ Bridge Program / Off-System																																																																					
	Bridge Program	608249	Pioneer Valley	Middlefield	MIDDLEFIELD- BRIDGE REPLACEMENT, M-19-010, CHESTER ROAD OVER SMART BROOK	1	STP-BR-OFF	\$ 1,306,800	\$ 1,045,440	\$ 261,360	Construction																																																										
Bridge Program / Off-System subtotal ▶																																																																					
\$ 1,306,800 \$ 1,045,440 \$ 261,360 ◀ 80% Federal + 20% Non-Federal																																																																					
▶ Bridge Program / On-System (NHS)																																																																					
	Bridge Program	606552	Pioneer Valley	Northampton	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I-91 OVER HOCKANUM ROAD	2	NHPP-On	\$ 56,891,767	\$ 45,513,413	\$ 11,378,353	Construction																																																										
Bridge Program / On-System (NHS) subtotal ▶																																																																					
\$ 56,891,767 \$ 45,513,413 \$ 11,378,353 ◀ Funding Split Varies by Funding Source																																																																					
▶ Bridge Program / On-System (Non-NHS)																																																																					
	Bridge Program	Project #	MPO	Municipalities	Description	District	NHPP-Off	\$ -	\$ -	\$ -																																																											
Bridge Program / On-System (Non-NHS) subtotal ▶																																																																					
\$ - \$ - \$ - ◀ 80% Federal + 20% Non-Federal																																																																					
▶ Bridge Program / Systematic Maintenance																																																																					
	Bridge Program	608258	Pioneer Valley	Huntington	HUNTINGTON- SYSTEMATIC BRIDGE MAINTENANCE, H-27-007, ROUTE 112 OVER WEST BRANCH OF WESTFIELD RIVER	1	NHPP-Off	\$ 419,445	\$ 335,556	\$ 83,889	Construction																																																										
Bridge Program / Systematic Maintenance subtotal ▶																																																																					
\$ 419,445 \$ 335,556 \$ 83,889 ◀ Funding Split Varies by Funding Source																																																																					
▶ Interstate Pavement																																																																					
	Interstate Pavement	607560	Pioneer Valley	Multiple	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2	NHPP	\$ 11,309,875	\$ 10,178,888	\$ 1,130,988	Construction / Includes \$416,000 of stormwater improvements																																																										
Interstate Pavement subtotal ▶																																																																					
\$ 11,309,875 \$ 10,178,888 \$ 1,130,988 ◀ 90% Federal + 10% Non-Federal																																																																					

Table 11: Federally Funded Projects Year 2019 (Continued)

► Non-Interstate Pavement											
	Non-Interstate Pavement	Project #	MPO	Municipalities	Description	District	STP	\$	\$	\$	
		607474	Pioneer Valley	Multiple	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	2	NHPP	\$ 3,313,440	\$ 2,650,752	\$ 662,688	Construction
		608811	Pioneer Valley	Ware	WARE- RESURFACING AND RELATED WORK ON ROUTE 9	2	NHPP	\$ 1,365,000	\$ 1,092,000	\$ 273,000	Construction
Non-Interstate Pavement subtotal ►								\$ 4,678,440	\$ 3,742,752	\$ 935,688	◀ 80% Federal + 20% Non-Federal
► Roadway Improvements											
	Roadway Improvements	Project #	MPO	Municipalities	Description	District	STP	\$	\$	\$	
Roadway Improvements subtotal ►								\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Safety Improvements											
	Safety Improvements	Project #	MPO	Municipalities	Description	District	STP	\$	\$	\$	
		608600	Pioneer Valley	Multiple	CHICOPEE- WEST SPRINGFIELD- HIGHWAY LIGHTING UPGRADE ON I-91	2	STP	\$ 3,286,141	\$ 2,628,913	\$ 657,228	Construction
		607736	Pioneer Valley	Chicopee	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO ABBEY STREET	2	HSIP	\$ 6,001,387	\$ 5,401,248	\$ 600,139	Construction
Safety Improvements subtotal ►								\$ 9,287,528	\$ 8,030,161	\$ 1,257,367	◀ Funding Split Varies by Funding Source
► Section 2B / State Prioritized Modernization Projects											
► ADA Retrofits											
	ADA Retrofits	Project #	MPO	Municipalities	Description	District	STP	\$	\$	\$	
ADA Retrofits subtotal ►								\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Intersection Improvements											
	Intersection Improvements	Project #	MPO	Municipalities	Description	District	CMAQ	\$	\$	\$	
Intersection Improvements subtotal ►								\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source
► Intelligent Transportation Systems											
	Intelligent Transportation Systems	Project #	MPO	Municipalities	Description	District	NHPP	\$	\$	\$	
Intelligent Transportation System subtotal ►								\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Roadway Reconstruction											
	Roadway Reconstruction	Project #	MPO	Municipalities	Description	District	CMAQ	\$	\$	\$	
		606555	Pioneer Valley	Northampton	NORTHAMPTON- ROUNABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	2	CMAQ	\$ 2,874,895	\$ 2,299,916	\$ 574,979	Construction / PSAC score 36.5
		608790	Pioneer Valley	Holyoke	HOLYOKE- IMPROVEMENTS AT KELLY COMMUNITY SCHOOL (SRTS)	2	TAP	\$ 926,875	\$ 741,500	\$ 185,375	Construction / TAP project proponent is Holyoke
Roadway Reconstruction subtotal ►								\$ 3,801,770	\$ 3,041,416	\$ 760,354	◀ 80% Federal + 20% Non-Federal
► Section 2C / State Prioritized Expansion Projects											
► Bicycles and Pedestrians											
	Bicycles and Pedestrians	Project #	MPO	Municipalities	Description	District	CMAQ	\$	\$	\$	
		603783	Pioneer Valley	Westfield	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25-015, W-25-016, W-25-017, W-25-018 & W-25-019	2	CMAQ	\$ 6,532,895	\$ 5,226,316	\$ 1,306,579	Construction / PSAC score 39.5
Bicycles and Pedestrians subtotal ►								\$ 6,532,895	\$ 5,226,316	\$ 1,306,579	◀ 80% Federal + 20% Non-Federal
► Capacity											
	Capacity	Project #	MPO	Municipalities	Description	District	CMAQ	\$	\$	\$	
							NHPP	\$ -	\$ -	\$ -	
Capacity subtotal ►								\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

Table 11: Federally Funded Projects Year 2019 (Continued)

► Section 3 / Planning / Adjustments / Pass-throughs														
► Planning / Adjustments / Pass-throughs														
Planning / Adjustments / Pass-throughs	Project #	MPO	Municipalities	Description	District	NHPP	\$	-	\$	-	\$	-		
							Other Statewide Items subtotal ►	\$	-	\$	-	\$	-	◀ Funding Split Varies by Funding Source
► Section 4 / Non-Federally Aided Projects														
► Non-Federally Aided Projects														
Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$	-	\$	-	\$	-		
							Non-Federal Aid subtotal ►	\$	-	\$	-	\$	-	◀ 100% Non-Federal
2019 Summary							TIP Section 1 - TIP Section 4:			Total of All				
							3: ▼			▼ Projects ▼				
Total ►							\$	118,809,389	\$	-	\$	118,809,389	◀ Total Spending in Region	
Federal Funds ►							\$	96,886,736	\$	-	\$	96,886,736	◀ Total Federal Spending in Region	
Non-Federal Funds ►							\$	21,922,652	\$	-	\$	21,922,652	◀ Total Non-Federal Spending in Region	

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Table 12: Federally Funded Projects 2020

Amendment / Adjustment Type ▼	STIP Program ▼	MassDOT Project ID ▼	Metropolitan Planning Organization ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼ <i>Present information as follows, if applicable:</i> a) Planning / Design / or Construction; b) total project cost and funding sources used; c) advance construction status; d) MPO project score; e) name of entity receiving a transfer; f) name of entity paying the non-state non-federal match; g) earmark details; h) TAP project proponent; i) other information
► Section 1A / Regionally Prioritized Projects											
► Regionally Prioritized Projects											
	Roadway reconstruction program	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099	Construction / (YOE \$5,898,533 STP, CMAQ, TAP, STP) / 48.5 TEC / 25% / Westfield is the TAP Proponent
	Roadway reconstruction program	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	CMAQ	\$ 500,000	\$ 400,000	\$ 100,000	Construction / (YOE \$5,898,533 STP, CMAQ, TAP, STP) / 48.5 TEC / 25% / Westfield is the TAP Proponent
	Roadway reconstruction program	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	TAP	\$ 545,638	\$ 436,510	\$ 109,128	Construction / (YOE \$5,898,533 STP, CMAQ, TAP, STP) / 48.5 TEC / 25% / Westfield is the TAP Proponent
	Roadway reconstruction program	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	STP	\$ 3,771,903	\$ 3,017,522	\$ 754,381	Construction / (YOE \$5,898,533 STP, CMAQ, TAP, STP) / 48.5 TEC / 25% / Westfield is the TAP Proponent
	Capacity program	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	CMAQ	\$ 2,202,480	\$ 1,761,984	\$ 440,496	Construction / (YOE \$24,840,000) CMAQ, STP Fund A/C Year 1 of 2 \$5,742,834 in FFY2021 / 50 TEC / Pre 25%
	Capacity program	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	STP	\$ 3,540,354	\$ 2,832,283	\$ 708,071	Construction / (YOE \$24,840,000) CMAQ, STP Fund A/C Year 1 of 2 \$5,742,834 in FFY2021 / 50 TEC / Pre 25%
	Intersection improvements program	608718	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE AVENUE, COTTAGE AND HARVEY STREETS	2	STP	\$ 2,229,021	\$ 1,783,217	\$ 445,804	Construction / (YOE \$2,229,021 STP) / 53 TEC Score / Pre 25%
	Intersection improvements program	608782	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT COTTAGE STREET, INDUSTRY AVENUE AND ROBBINS ROAD	2	STP	\$ 1,944,000	\$ 1,555,200	\$ 388,800	Construction / (YOE \$1,944,000) STP) / 49.5 TEC Score / Pre 25%
	Intersection improvements program	604434	Pioneer Valley	Chicopee	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	2	STP	\$ 8,101,167	\$ 6,480,934	\$ 1,620,233	Construction / (YOE \$7,801,167 STP) / 49 TEC / 25%
Regionally Prioritized Projects subtotal ►								\$ 23,915,555	\$ 19,240,544	\$ 4,675,012	◀ 80% Federal + 20% Non-Federal

Table 12: Federally Funded Projects Year 2020 (Continued)

Section 1A / Fiscal Constraint Analysis																																																								
<p>Section 1A Instructions: MPO Template Name) Choose Regional Name from dropdown list to populate header and MPO column; Column C) Enter ID from ProjectInfo; Column E) Choose Municipality Name from dropdown list; Column H) Choose the Funding Source being used for the project - if multiple funding sources are being used enter multiple lines; Column I) Enter the total amount of funds being programmed in this fiscal year and for each funding source; Column J) Federal funds autocalculates. Please verify the amount and only change if needed for flex. Column K) Non-federal funds autocalculates. Please verify the split/match - if matching an FTA flex, coordinate with Rail & Transit Division before programming; Column L) Enter Additional Information as described - please do not use any other format.</p>																																																								
<table border="0" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;"></td> <td style="text-align: right;">Total Regional Federal Aid Funds Programmed ▶</td> <td style="text-align: right;">\$ 23,915,555</td> <td style="text-align: right;">\$ 24,662,830</td> <td style="text-align: right;">◀ Total</td> <td style="text-align: right;">\$ 747,275</td> <td style="text-align: right;">Target Funds Available</td> </tr> <tr> <td>STP programmed ▶</td> <td style="text-align: right;">\$ 19,586,445</td> <td style="text-align: right;">\$ 20,333,721</td> <td style="text-align: right;">◀ Max STP</td> <td style="text-align: right;">\$ 747,276</td> <td colspan="2">STP available</td> </tr> <tr> <td>HSIP programmed ▶</td> <td style="text-align: right;">\$ 1,080,992</td> <td style="text-align: right;">\$ 1,080,992</td> <td style="text-align: right;">◀ Min. HSIP</td> <td style="text-align: right;">\$ (0)</td> <td colspan="2">HSIP recommended met</td> </tr> <tr> <td>CMAQ programmed ▶</td> <td style="text-align: right;">\$ 2,702,480</td> <td style="text-align: right;">\$ 2,702,480</td> <td style="text-align: right;">◀ Min. CMAQ</td> <td style="text-align: right;">\$ (0)</td> <td colspan="2">CMAQ recommended met</td> </tr> <tr> <td>TAP programmed ▶</td> <td style="text-align: right;">\$ 545,638</td> <td style="text-align: right;">\$ 545,638</td> <td style="text-align: right;">◀ Min. TAP</td> <td style="text-align: right;">\$ (1)</td> <td colspan="2">TAP amount exceeded!</td> </tr> <tr> <td colspan="2" style="text-align: right;">Remaining HSIP, CMAQ, and TAP Funds \$</td> <td colspan="2"></td> <td style="text-align: right;">747,275</td> <td colspan="2"></td> </tr> </table>												Total Regional Federal Aid Funds Programmed ▶	\$ 23,915,555	\$ 24,662,830	◀ Total	\$ 747,275	Target Funds Available	STP programmed ▶	\$ 19,586,445	\$ 20,333,721	◀ Max STP	\$ 747,276	STP available		HSIP programmed ▶	\$ 1,080,992	\$ 1,080,992	◀ Min. HSIP	\$ (0)	HSIP recommended met		CMAQ programmed ▶	\$ 2,702,480	\$ 2,702,480	◀ Min. CMAQ	\$ (0)	CMAQ recommended met		TAP programmed ▶	\$ 545,638	\$ 545,638	◀ Min. TAP	\$ (1)	TAP amount exceeded!		Remaining HSIP, CMAQ, and TAP Funds \$				747,275						
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Section 1B / Earmark or Discretionary Grant Funded Projects																																																								
Other Federal Aid																																																								
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Section 2A / State Prioritized Reliability Projects																																																								
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	Bridge Program	608631	Pioneer Valley	Westhampton	WESTHAMPTON- BRIDGE REPLACEMENT, W-27-005, KINGS HIGHWAY OVER N BRANCH MANHAN RIVER	2	STP-BR-OFF	\$ 3,072,000	\$ 2,457,600	\$ 614,400	Construction																																													
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	Interstate Pavement	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -																																														
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	Non-Interstate Pavement	608473	Pioneer Valley	South Hadley	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116	2	NHPP	\$ 2,255,688	\$ 1,804,550	\$ 451,138	Construction																																													
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Table 12: Federally Funded Projects Year 2020 (Continued)

► Roadway Improvements											
Roadway Improvements	Project #	MPO	Municipalities	Description	District	STP	\$	\$	\$		
							Roadway Improvements subtotal ►	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Safety Improvements											
Safety Improvements	608575	Pioneer Valley	Multiple	CHICOPEE TO HOLYOKE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON I-391	2	HSIP	\$ 542,872	\$ 488,585	\$ 54,287	Construction	
							Safety Improvements subtotal ►	\$ 542,872	\$ 488,585	\$ 54,287	◀ Funding Split Varies by Funding Source
► Section 2B / State Prioritized Modernization Projects											
► ADA Retrofits											
ADA Retrofits	Project #	MPO	Municipalities	Description	District	STP	\$	\$	\$		
							ADA Retrofits subtotal ►	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Intersection Improvements											
Intersection Improvements	608560	Pioneer Valley	Springfield	SPRINGFIELD- IMPROVEMENTS ON ST JAMES AVENUE AT ST JAMES BOULEVARD AND CAREW STREET AT TAPLEY STREET	2	HSIP	\$ 2,688,000	\$ 2,419,200	\$ 268,800	Construction / PSAC score 75.5	
Intersection Improvements	606450	Pioneer Valley	Holyoke	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	CMAQ	\$ 4,573,306	\$ 3,658,645	\$ 914,661	Construction / PSAC score 60.5	
							Intersection Improvements subtotal ►	\$ 7,261,306	\$ 6,077,845	\$ 1,183,461	◀ Funding Split Varies by Funding Source
► Intelligent Transportation Systems											
Intelligent Transportation Systems	Project #	MPO	Municipalities	Description	District	NHPP	\$	\$	\$		
							Intelligent Transportation System subtotal ►	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Roadway Reconstruction											
Roadway Reconstruction	Project #	MPO	Municipalities	Description	District	TAP	\$	\$	\$		
							Roadway Reconstruction subtotal ►	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Section 2C / State Prioritized Expansion Projects											
► Bicycles and Pedestrians											
Bicycles and Pedestrians	602911	Pioneer Valley	Chicopee	CHICOPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES), INCLUDES NEW BRIDGE C-13-060 OVER OVERFLOW CHANNEL	2	CMAQ	\$ 3,372,552	\$ 2,698,042	\$ 674,510	Construction / PSAC score 25.5	
							Bicycles and Pedestrians subtotal ►	\$ 3,372,552	\$ 2,698,042	\$ 674,510	◀ 80% Federal + 20% Non-Federal
► Capacity											
Capacity	Project #	MPO	Municipalities	Description	District	CMAQ	\$	\$	\$		
							Capacity subtotal ►	\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source
► Section 3 / Planning / Adjustments / Pass-throughs											
► Planning / Adjustments / Pass-throughs											
Planning / Adjustments / Pass-throughs	Project #	MPO	Municipalities	Description	District	NHPP	\$	\$	\$		
							Other Statewide Items subtotal ►	\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

Table 12: Federally Funded Projects Year 2020 (Continued)

► Section 4 / Non-Federally Aided Projects															
► Non-Federally Aided Projects															
	Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$	-	\$	-				
								Non-Federal Aid subtotal ►		\$	-	\$	-	◀ 100% Non-Federal	
2020 Summary								TIP Section 1 - TIP Section 4:		Total of All					
								3: ▼		▼		Projects ▼			
								Total ►	\$	59,554,133	\$	-	\$	59,554,133	◀ Total Spending in Region
								Federal Funds ►	\$	48,074,493	\$	-	\$	48,074,493	◀ Total Federal Spending in Region
								Non-Federal Funds ►	\$	11,479,640	\$	-	\$	11,479,640	◀ 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>

Table 13: Federally Funded Projects Year 2021

Amendment / Adjustment Type ▼	STIP Program ▼	MassDOT Project ID ▼	Metropolitan Planning Organization ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼ <i>Present information as follows, if applicable: a) Planning / Design / or Construction; b) total project cost and funding sources used; c) advance construction status; d) MPO project score; e) name of entity receiving a transfer; f) name of entity paying the non-state non-federal match; g) earmark details; h) TAP project proponent; i) other information</i>
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► Section 1A / Regionally Prioritized Projects

► Regionally Prioritized Projects											
Capacity program		605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099	Construction / (YOE \$24,840,000) (\$5,742,834 in FFY 2020) \$19,097,166 in FFY2021 CMAQ, STP. TAP Fund A/C Year 2 or 2 / 50 TEC / Pre 25% / Hadley is the TAP Proponent
Capacity program		605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	TAP	\$ 545,638	\$ 436,510	\$ 109,128	Construction / (YOE \$24,840,000) (\$5,742,834 in FFY 2020) \$19,097,166 in FFY2021 CMAQ, STP. TAP Fund A/C Year 2 or 2 / 50 TEC / Pre 25% / Hadley is the TAP Proponent
Capacity program		605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	STP	\$ 17,470,536	\$ 13,976,429	\$ 3,494,107	Construction / (YOE \$24,840,000) (\$5,742,834 in FFY 2020) \$19,097,166 in FFY2021 CMAQ, STP. TAP Fund A/C Year 2 or 2 / 50 TEC / Pre 25% / Hadley is the TAP Proponent
Intersection improvements program		607502	Pioneer Valley	Northampton	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	2	CMAQ	\$ 1,240,000	\$ 992,000	\$ 248,000	Construction / (YOE \$3,854,765 STP, CMAQ) / 65 TEC / 25%
Intersection improvements program		607502	Pioneer Valley	Northampton	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	2	STP	\$ 2,614,765	\$ 2,091,812	\$ 522,953	Construction / (YOE \$3,854,765 STP, CMAQ) / 65 TEC / 25%
Roadway reconstruction program		608577	Pioneer Valley	Easthampton	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	2	CMAQ	\$ 1,462,480	\$ 1,169,984	\$ 292,496	Construction / (YOE \$2,281,664 STP, CMAQ) / 62 TEC / Pre 25%
Roadway reconstruction program		608577	Pioneer Valley	Easthampton	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	2	STP	\$ 819,184	\$ 655,347	\$ 163,837	Construction / (YOE \$2,281,664 STP, CMAQ) / 62 TEC / Pre 25%
Regionally Prioritized Projects subtotal ►								\$ 25,233,595	\$ 20,294,975	\$ 4,938,620	◀ 80% Federal + 20% Non-Federal

► Section 1A / Fiscal Constraint Analysis

Section 1A Instructions: MPO Template Name Choose Regional Name from dropdown list to populate header and MPO column; **Column C** Enter ID from ProjectInfo; **Column E** Choose Municipality Name from dropdown list; **Column H** Choose the Funding Source being used for the project - if multiple funding sources are being used enter multiple lines; **Column I** Enter the total amount of funds being programmed in this fiscal year and for each funding source; **Column J** Federal funds autocalculates. Please verify the amount and only change if needed for flex. **Column K** Non-federal funds autocalculates. Please verify the split/match - if matching an FTA flex, coordinate with Rail & Transit Division before programming; **Column L** Enter Additional Information as described - please do not use any other format.

Total Regional Federal Aid Funds Programmed ►		\$ 25,233,595	\$ 25,233,594	◀ Total	\$ (1)	Funds Over Programmed
STP programmed ►	\$ 20,904,485	\$ 20,904,485	◀ Max STP	\$ (0)	STP exceeds recommendation	
HSIP programmed ►	\$ 1,080,992	\$ 1,080,992	◀ Min. HSIP	\$ (0)	HSIP recommended met	
CMAQ programmed ►	\$ 2,702,480	\$ 2,702,480	◀ Min. CMAQ	\$ (0)	CMAQ recommended met	
TAP programmed ►	\$ 545,638	\$ 545,638	◀ Min. TAP	\$ (1)	TAP amount exceeded!	

Table 13: Federally Funded Projects Year 2021 (Continued)

► Section 1B / Earmark or Discretionary Grant Funded Projects											
► Other Federal Aid											
Earmark Discretionary	Project #	Pioneer Valley	Municipalities	Description	District	HPP	\$ -	\$ -	\$ -		
Earmark Discretionary	Project #	Pioneer Valley	Municipalities	Description	District	HPP	\$ -	\$ -	\$ -		
Other Federal Aid subtotal ►							\$ -	\$ -	\$ -		◀ Funding Split Varies by Funding Source
► Section 2A / State Prioritized Reliability Projects											
► Bridge Program / Inspections											
Bridge Program	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -		
Bridge Program / Inspections subtotal ►							\$ -	\$ -	\$ -		◀ Funding Split Varies by Funding Source
► Bridge Program / Off-System											
Bridge Program	Project #	MPO	Municipalities	Description	District	STP-BR-OFF	\$ -	\$ -	\$ -		
Bridge Program / Off-System subtotal ►							\$ -	\$ -	\$ -		◀ 80% Federal + 20% Non-Federal
► Bridge Program / On-System (NHS)											
Bridge Program	#N/A			#N/A		#N/A	\$ -	\$ -	\$ -		
Bridge Program / On-System (NHS) subtotal ►							\$ -	\$ -	\$ -		◀ Funding Split Varies by Funding Source
► Bridge Program / On-System (Non-NHS)											
Bridge Program	Project #	MPO	Municipalities	Description	District	NHPP-Off	\$ -	\$ -	\$ -		
Bridge Program / On-System (Non-NHS) subtotal ►							\$ -	\$ -	\$ -		◀ 80% Federal + 20% Non-Federal
► Bridge Program / Systematic Maintenance											
Bridge Program	Project #	MPO	Municipalities	Description	District	NHPP-On	\$ -	\$ -	\$ -		
Bridge Program / Systematic Maintenance subtotal ►							\$ -	\$ -	\$ -		◀ Funding Split Varies by Funding Source
► Interstate Pavement											
Interstate Pavement	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -		
Interstate Pavement subtotal ►							\$ -	\$ -	\$ -		◀ 90% Federal + 10% Non-Federal
► Non-Interstate Pavement											
Non-Interstate Pavement	608487	Pioneer Valley	Westfield	WESTFIELD- RESURFACING AND RELATED WORK ON ROUTE 10 AND 202	2	NHPP	\$ 2,775,360	\$ 2,220,288	\$ 555,072	Construction	
Non-Interstate Pavement	608489	Pioneer Valley	Wilbraham	WILBRAHAM- RESURFACING AND RELATED WORK ON ROUTE 20	2	NHPP	\$ 9,086,000	\$ 7,268,800	\$ 1,817,200	Construction	
Non-Interstate Pavement subtotal ►							\$ 11,861,360	\$ 9,489,088	\$ 2,372,272		◀ 80% Federal + 20% Non-Federal
► Roadway Improvements											
Roadway Improvements	Project #	MPO	Municipalities	Description	District	STP	\$ -	\$ -	\$ -		
Roadway Improvements subtotal ►							\$ -	\$ -	\$ -		◀ 80% Federal + 20% Non-Federal
► Safety Improvements											
Safety Improvements	Project #	MPO	Municipalities	Description	District	STP	\$ -	\$ -	\$ -		
Safety Improvements subtotal ►							\$ -	\$ -	\$ -		◀ Funding Split Varies by Funding Source

Table 13: Federally Funded Projects Year 2021 (Continued)

▶ Section 2B / State Prioritized Modernization Projects															
▶ ADA Retrofits															
	ADA Retrofits	Project #	MPO	Municipalities	Description	District	STP	\$	-	\$	-	\$	-		
								ADA Retrofits subtotal ▶	\$	-	\$	-	\$	-	◀ 80% Federal + 20% Non-Federal
▶ Intersection Improvements															
	Intersection Improvements	Project #	MPO	Municipalities	Description	District	HSIP	\$	-	\$	-	\$	-		
								Intersection Improvements subtotal ▶	\$	-	\$	-	\$	-	◀ Funding Split Varies by Funding Source
▶ Intelligent Transportation Systems															
	Intelligent Transportation	Project #	MPO	Municipalities	Description	District	NHPP	\$	-	\$	-	\$	-		
								Intelligent Transportation System subtotal ▶	\$	-	\$	-	\$	-	◀ 80% Federal + 20% Non-Federal
▶ Roadway Reconstruction															
	Roadway Reconstruction	Project #	MPO	Municipalities	Description	District	CMAQ	\$	-	\$	-	\$	-		
								Roadway Reconstruction subtotal ▶	\$	-	\$	-	\$	-	◀ 80% Federal + 20% Non-Federal
▶ Section 2C / State Prioritized Expansion Projects															
▶ Bicycles and Pedestrians															
	Bicycles and Pedestrians	Project #	MPO	Municipalities	Description	District	CMAQ	\$	-	\$	-	\$	-		
		602912	Pioneer Valley	Chicopee	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	2	CMAQ	\$ 2,273,910	\$ 1,819,128	\$ 454,782		Construction / PSAC score 29			
		608157	Pioneer Valley	Springfield	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	2	CMAQ	\$ 3,968,300	\$ 3,174,640	\$ 793,660		Construction / PSAC score 30.5			
								Bicycles and Pedestrians subtotal ▶	\$	3,968,300	\$	3,174,640	\$	793,660	◀ 80% Federal + 20% Non-Federal
▶ Capacity															
	Capacity	Project #	MPO	Municipalities	Description	District	CMAQ	\$	-	\$	-	\$	-		
								Capacity subtotal ▶	\$	-	\$	-	\$	-	◀ Funding Split Varies by Funding Source
▶ Section 3 / Planning / Adjustments / Pass-throughs															
▶ Planning / Adjustments / Pass-throughs															
	Planning / Adjustments / Pass-throughs	Project #	MPO	Municipalities	Description	District	NHPP	\$	-	\$	-	\$	-		
								Other Statewide Items subtotal ▶	\$	-	\$	-	\$	-	◀ Funding Split Varies by Funding Source
▶ Section 4 / Non-Federally Aided Projects															
▶ Non-Federally Aided Projects															
	Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$	-	\$	-	\$	-		
								Non-Federal Aid subtotal ▶	\$	-	\$	-	\$	-	◀ 100% Non-Federal
2021 Summary								TIP Section 1 - TIP Section 4: Total of All Projects ▼							
Total ▶								\$	41,063,255	\$	-	\$	41,063,255	◀ Total Spending in Region	
Federal Funds ▶								\$	32,958,703	\$	-	\$	32,958,703	◀ Total Federal Spending in Region	
Non-Federal Funds ▶								\$	8,104,552	\$	-	\$	8,104,552	◀ Total Non-Federal Spending in Region	

Table 14: Federally Funded Projects Year 2022

Amendment / Adjustment Type ▼	STIP Program ▼	MassDOT Project ID ▼	Metropolitan Planning Organization ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼ <i>Present information as follows, if applicable:</i> a) Planning / Design / or Construction; b) total project cost and funding sources used; c) advance construction status; d) MPO project score; e) name of entity receiving a transfer; f) name of entity paying the non-state non-federal match; g) earmark details; h) TAP project proponent; i) other information
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► Section 1A / Regionally Prioritized Projects

► Regionally Prioritized Projects											
Roadway reconstruction program	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099	Construction / (YOE \$17,980,000 STP, TAP, HSIP, CMAQ) / 65 TEC Pre 25% / West Springfield is TAP Proponent	
Roadway reconstruction program	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	CMAQ	\$ 2,702,480	\$ 2,161,984	\$ 540,496	Construction / (YOE \$17,980,000 STP, TAP, HSIP, CMAQ) / 65 TEC Pre 25% / West Springfield is TAP Proponent	
Roadway reconstruction program	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	TAP	\$ 545,638	\$ 436,510	\$ 109,128	Construction / (YOE \$17,980,000 STP, TAP, HSIP, CMAQ) / 65 TEC Pre 25% / West Springfield is TAP Proponent	
Roadway reconstruction program	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	STP	\$ 12,235,690	\$ 9,788,552	\$ 2,447,138	Construction / (YOE \$17,980,000 STP, TAP, HSIP, CMAQ) / 65 TEC Pre 25% / West Springfield is TAP Proponent	
Intersection improvements program	606895	Pioneer Valley	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	2	STP	\$ 1,608,808	\$ 1,287,046	\$ 321,762	Construction / (YOE \$1,608,808) STP) / 42 TEC / 25%	
Roadway reconstruction program	606156	Pioneer Valley	Holyoke	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	2	STP	\$ 3,483,600	\$ 2,786,880	\$ 696,720	Construction / (YOE \$3,483,600 STP) / 47.5 TEC / Pre 25%	
Regionally Prioritized Projects subtotal ►							\$ 21,657,208	\$ 17,433,865	\$ 4,223,342	◀ 80% Federal + 20% Non-Federal	

► Section 1A / Fiscal Constraint Analysis

Section 1A Instructions: MPO Template Name Choose Regional Name from dropdown list to populate header and MPO column; **Column C** Enter ID from ProjectInfo; **Column E** Choose Municipality Name from dropdown list; **Column H** Choose the Funding Source being used for the project - if multiple funding sources are being used enter multiple lines; **Column I** Enter the total amount of funds being programmed in this fiscal year and for each funding source; **Column J** Federal funds autocalculates. Please verify the amount and only change if needed for flex. **Column K** Non-federal funds autocalculates. Please verify the split/match - if matching an FTA flex, coordinate with Rail & Transit Division before programming; **Column L** Enter Additional Information as described - please do not use any other format.

Total Regional Federal Aid Funds Programmed ►		\$ 21,657,208	\$ 25,546,001	◀ Total	\$ 3,888,793	Target Funds Available
STP programmed ►	\$ 17,328,098	\$ 21,216,891	◀ Max STP	\$ 3,888,794	STP available	
HSIP programmed ►	\$ 1,080,992	\$ 1,080,992	◀ Min. HSIP	\$ (0)	HSIP recommended met	
CMAQ programmed ►	\$ 2,702,480	\$ 2,702,480	◀ Min. CMAQ	\$ (0)	CMAQ recommended met	
TAP programmed ►	\$ 545,638	\$ 545,638	◀ Min. TAP	\$ (1)	TAP amount exceeded!	

Remaining HSIP, CMAQ, and TAP Funds \$ 3,888,793

► Section 1B / Earmark or Discretionary Grant Funded Projects

► Other Federal Aid											
Earmark Discretionary	Project #	Pioneer Valley	Municipalities	Description	District	HPP	\$ -	\$ -	\$ -		
Earmark Discretionary	Project #	Pioneer Valley	Municipalities	Description	District	HPP	\$ -	\$ -	\$ -		
Other Federal Aid subtotal ►							\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source	

Table 14: Federally Funded Projects Year 2022 (Continued)

► Section 2A / State Prioritized Reliability Projects											
► Bridge Program / Inspections											
	Bridge Program	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -	
Bridge Program / Inspections subtotal ►								\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source
► Bridge Program / Off-System											
	Bridge Program	608869	Pioneer Valley	Northampton	NORTHAMPTON - BRIDGE REPLACEMENT, N-19-068, OLD SPRINGFIELD ROAD OVER MILL RIVER	2	STP-BR-OFF	\$ 3,981,120	\$ 3,184,896	\$ 796,224	Construction
	Bridge Program	608847	Pioneer Valley	Wales	WALES - BRIDGE REPLACEMENT, W-02-002, HOLLAND ROAD OVER WALES BROOK	2	STP-BR-OFF	\$ 540,096	\$ 432,077	\$ 108,019	Construction
	Bridge Program	608846	Pioneer Valley	Monson	MONSON - BRIDGE REPLACEMENT, M-27-015, OLD WALES ROAD OVER CONANT BROOK	2	STP-BR-OFF	\$ 1,742,784	\$ 1,394,227	\$ 348,557	Construction
Bridge Program / Off-System subtotal ►								\$ 6,264,000	\$ 5,011,200	\$ 1,252,800	◀ 80% Federal + 20% Non-Federal
► Bridge Program / On-System (NHS)											
	Bridge Program	608848	Pioneer Valley	Springfield	SPRINGFIELD, BRIDGE REPLACEMENT, S-24-016, ARMORY STREET OVER CSX RR	2	NHPP-On	\$ 5,723,440	\$ 4,578,752	\$ 1,144,688	Construction
	Bridge Program	608853	Pioneer Valley	Springfield	SPRINGFIELD, BRIDGE REPLACEMENT, S-24-026, ARMORY STREET OVER CSX RR (ABANDONED)	2	NHPP-On	\$ 3,948,640	\$ 3,158,912	\$ 789,728	Construction / YEAR 1 AC OF 3, \$117,077,490
Bridge Program / On-System (NHS) subtotal ►								\$ 9,672,080	\$ 7,737,664	\$ 1,934,416	◀ Funding Split Varies by Funding Source
► Bridge Program / On-System (Non-NHS)											
	Bridge Program	Project #	MPO	Municipalities	Description	District	NHPP-Off	\$ -	\$ -	\$ -	
Bridge Program / On-System (Non-NHS) subtotal ►								\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Bridge Program / Systematic Maintenance											
	Bridge Program	Project #	MPO	Municipalities	Description	District	NHPP-On	\$ -	\$ -	\$ -	
Bridge Program / Systematic Maintenance subtotal ►								\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source
► Interstate Pavement											
	Interstate Pavement	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -	
Interstate Pavement subtotal ►								\$ -	\$ -	\$ -	◀ 90% Federal + 10% Non-Federal
► Non-Interstate Pavement											
	Non-Interstate Pavement	608466	Pioneer Valley	Multiple	BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202	2	NHPP	\$ 4,484,189	\$ 3,587,351	\$ 896,838	Construction
Non-Interstate Pavement subtotal ►								\$ 4,484,189	\$ 3,587,351	\$ 896,838	◀ 80% Federal + 20% Non-Federal
► Roadway Improvements											
	Roadway Improvements	Project #	MPO	Municipalities	Description	District	STP	\$ -	\$ -	\$ -	
Roadway Improvements subtotal ►								\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Safety Improvements											
	Safety Improvements	Project #	MPO	Municipalities	Description	District	HSIP	\$ -	\$ -	\$ -	
Safety Improvements subtotal ►								\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

Table 14: Federally Funded Projects Year 2022 (Continued)

► Section 2B / State Prioritized Modernization Projects																
► ADA Retrofits																
	ADA Retrofits	Project #	MPO	Municipalities	Description	District	STP	\$	-	\$	-	\$	-			
								ADA Retrofits subtotal ►		\$	-	\$	-	\$	-	◀ 80% Federal + 20% Non-Federal
► Intersection Improvements																
	Intersection Improvements	Project #	MPO	Municipalities	Description	District	HSIP	\$	-	\$	-	\$	-			
								Intersection Improvements subtotal ►		\$	-	\$	-	\$	-	◀ Funding Split Varies by Funding Source
► Intelligent Transportation Systems																
	Intelligent Transportation	Project #	MPO	Municipalities	Description	District	NHPP	\$	-	\$	-	\$	-			
								Intelligent Transportation System subtotal ►		\$	-	\$	-	\$	-	◀ 80% Federal + 20% Non-Federal
► Roadway Reconstruction																
	Roadway Reconstruction	Project #	MPO	Municipalities	Description	District	NHPP	\$	-	\$	-	\$	-			
								Roadway Reconstruction subtotal ►		\$	-	\$	-	\$	-	◀ 80% Federal + 20% Non-Federal
► Section 2C / State Prioritized Expansion Projects																
► Bicycles and Pedestrians																
	Bicycles and Pedestrians		#N/A	Springfield		#N/A				\$	-	\$	-			
								Bicycles and Pedestrians subtotal ►		\$	-	\$	-	\$	-	◀ 80% Federal + 20% Non-Federal
► Capacity																
	Capacity	Project #	MPO	Municipalities	Description	District	CMAQ	\$	-	\$	-	\$	-			
								Capacity subtotal ►		\$	-	\$	-	\$	-	◀ Funding Split Varies by Funding Source
► Section 3 / Planning / Adjustments / Pass-throughs																
► Planning / Adjustments / Pass-throughs																
	Planning / Adjustments / Pass-throughs	Project #	MPO	Municipalities	Description	District	NHPP	\$	-	\$	-	\$	-			
								Other Statewide Items subtotal ►		\$	-	\$	-	\$	-	◀ Funding Split Varies by Funding Source
► Section 4 / Non-Federally Aided Projects																
► Non-Federally Aided Projects																
	Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$	-	\$	-	\$	-			
								Non-Federal Aid subtotal ►		\$	-	\$	-	\$	-	◀ 100% Non-Federal
2022 Summary								TIP Section 1 - TIP Section 4: Total of All Projects ▼								
Total ►								\$	42,077,477	\$	-	\$	42,077,477	◀ Total Spending in Region		
Federal Funds ►								\$	33,770,080	\$	-	\$	33,770,080	◀ Total Federal Spending in Region		
Non-Federal Funds ►								\$	8,307,396	\$	-	\$	8,307,396	◀ 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>

UNIVERSE OF PROJECTS

Table 15: Universe of Projects

FFY Year	Community	SID	Project Name and Description	Design	TEC Score	Estimated Cost
	Agawam	607626	AGAWAM- RESURFACING & RELATED WORK ON ROUTE 159, FROM MEADOW STREET TO 150 FT. SOUTH OF SUFFIELD STREET (1.1 MILES)	75	30.0	\$1,450,653
	Agawam	607316	RECONSTRUCTION OF ROUTE 187, FROM SOUTHWICK/SPRINGFIELD STREET TO ALLISON LANE (1.29 MILES - PHASE II)	25	33.8	\$5,562,610
2019	Agawam	600513	RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	25	27.0	\$2,234,080
2018	Agawam	604203	Route 187/57 Intersection Improvements	0	60.0	\$3,288,000
	Agawam	603372	RECONSTRUCTION ON ROUTE 5 CONNECTOR TO ROUTE 57, INCLUDES A-05-013 & A-05-014	0	53.0	\$11,670,939
	Agawam	607317	Route 187 Reconstruction from Allison Ln to Westfield City Line, 1.69 miles(Phase III)	0	33.8	\$7,589,668
	Agawam	607876	Sidewalk Construction on Route 159 From CT Line to Woodcliff Ave and From South St to River Road	0	13.5	\$450,265
	Agawam	608549	AGAWAM- RESURFACING AND RELATED WORK ON RIVER ROAD, FROM 575 FEET SOUTH OF CHESTNUT LANE TO SCHOOL STREET (1.8 MILES)	0	10.5	\$1,763,512.40
2019	Amherst	608084	Improvements and Related Work on Route 9 and 116 from University Drive to South Pleasant Street (0.8 miles)	0	49.0	\$1,255,660
	Amherst / Belchertown	608719	AMHERST- BELCHERTOWN- NORWOTTUCK RAIL TRAIL RESURFACING, FROM STATION ROAD IN AMHERST TO WARREN WRIGHT ROAD IN BELCHERTOWN (1.5 MILES)	0	11.5	\$1,083,220.00
2018	Amherst / Hadley / Northampton	608786	TRANSIT SIGNAL PRIORITY UPGRADES AT VARIOUS LOCATIONS	NA	35.0	\$1,200,000.00
2019	Belchertown	608412	BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	0	55.5	\$4,600,000
2021 NHPP	Belchertown / Granby	608466	BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202	0	17	\$4,491,288.00
2020	Chicopee	604434	RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	25	49.0	\$7,501,081

2018 SW HSIP	Chicopee	607736	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO ABBEY STREET	0	41.0	\$5,800,000
	Chicopee	606892	SLOPE PROTECTION IMPROVEMENTS AT I-391 BRIDGE OVER THE CONNECTICUT RIVER	0	6.5	\$282,650
	Cummington	606797	Route 9 Retaining Wall	0	8.0	\$1,660,000
2021	Easthampton	608577	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	0	62.0	\$2,037,200.00
	Easthampton/ Southampton	608423	IMPROVEMENTS AND RELATED WORK ON TWO SECTIONS OF ROUTE 10 IN EASTHAMPTON AND SOUTHAMPTON	0	28.5	\$2,799,540
	Goshen	602888	Route 9 reconstruction	0	21.5	\$7,500,000
2022	Granby	606895	Route 202 Intersection Improvements 2 Locations @ 5 Corners and @ School Street	25	42.0	\$1,224,372
2018 NHPP	Granby / South Hadley	607474	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	0	20.5	\$1,872,000
	Granville	608736	GRANVILLE- RECONSTRUCTION OF ROUTE 57	0	19.0	\$7,000,000
2020/2021 A/C	Hadley	605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	25	50.0	\$23,000,000
	Hadley	608089	INTERSECTION, BICYCLE AND PEDESTRIAN IMPROVEMENTS @ ROUTES 9, 116 & WESTGATE CENTER DRIVE	0	25.5	\$1,544,720
	Hadley	607886	RESURFACING AND RELATED WORK ON ROUTE 47 FROM COMINS DRIVE TO OLD RIVER DRIVE, INCLUDES CULVERT REPLACEMENT AT RUSSELVILLE BROOK	0	16 (2.88)	\$2,100,000
	Hadley	606547	PEDESTRIAN SIGNAL INSTALLATION AT 2 LOCATIONS ALONG ROUTE 9 NEAR WEST ST	0	14.5	\$134,600
	Hatfield	608553	HATFIELD- RESURFACING AND RELATED WORK ON ROUTES 5 & 10, FROM 350 FEET NORTH OF CHURCH AVE TO THE WHATELY TOWN LINE (3.2 MILES)	0	6.5	\$3,124,760.40
2018	Holland	604962	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	25	26.5	\$1,140,089

	Holland	608727	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM WALES ROAD TO STURBRIDGE STREET (0.9 MILES - PHASE II)	25	26.5	\$1,051,476
2018	Holyoke	607256	RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	25	47.0	\$3,758,081
2019 SW CMAQ	Holyoke	606450	TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	25	45.5	\$4,234,543
2022	Holyoke	606156	RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	0	46.5	\$2,990,728
2019	Holyoke /West Springfield	604209	REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES)	0	51.0	\$4,457,830
	Longmeadow	607430	RESURFACING & RELATED WORK ON LONGMEADOW STREET (ROUTE 5), FROM THE CT S.L. TO CONVERSE STREET (2.88 MILES)	25	44.5	\$5,900,000
	Longmeadow / Springfield	606469	RETAINING WALL REPLACEMENT/REHABILITATION ON I-91 (SB)			\$6,143,750
2019	Northampton	608236	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, IONSTRUNCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL (old#180525)	25	66.5	\$6,877,318
2018	Northampton	604597	I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD	25	65.0	\$7,438,490
2018 SW CMAQ	Northampton	606555	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	25	55.0	\$4,612,652
	Northampton	608729	NORTHAMPTON- IMPROVEMENTS AND RELATED WORK ON MAIN STREET (ROUTE 9) FROM MASONIC STREET TO MARKET/HAWLET STREET (0.33 MILES)	0	74.0	\$5,354,523.20
	Northampton	607893	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	0	68.0	\$2,000,000
2021	Northampton	607502	INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	0	65.0	\$3,305,959

	Northampton	605048	IMPROVEMENTS ON ROUTE 5 (MOUNT TOM ROAD) - FROM BRIDGE E-5-4 OVER THE MANHAN RIVER TO 850' SOUTH OF I-91 NB EXIT 18 RAMP (0.85 MILES)	0	40.0	\$1,200,112
	Northampton	608161	NORTHAMPTON- RETAINING WALL REPLACEMENT AT CULVERT UNDER NORTH KING STREET (ROUTE 5&10), 300 FEET SOUTH OF COLES MEADOW ROAD (MM 25.4)	0	18.0	\$1,440,000
	Palmer	603873	RESURFACING & RELATED WORK ON ROUTE 20 - FROM EAST OF RTE 32 INTERSECTION EASTERLY TO MM 81.7 (2.0 MILES)	0	24.5	\$2,250,000
	Palmer	601504	RECONSTRUCTION OF ROUTE 32, FROM 765 FT. SOUTH OF STIMSON STREET TO 1/2 MILES SOUTH OF RIVER STREET (PHASE I) (1.63 MILES) (TFPC \$6,134,080) HPP Eamark \$2,500,000	0	18.0	\$3,570,304
	Palmer	607372	PALMER- RECONSTRUCTION OF ROUTE 32, FROM 1/2 MILE SOUTH OF RIVER STREET TO THE WARE T.L. (PHASE II) (2.1 MILES)	0	14.0	\$8,476,770
	South Hadley	608785	MAIN STREET ROAD IMPROVEMENT PROJECT	0	37.5	\$3,000,000
	South Hadley	608473	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116	0	26.0	\$2,338,560.00
	South Hadley	606452	RESURFACING & RELATED WORK ON ROUTE 116 (AMHERST ROAD), FROM WOODBRIDGE STREET TO PEARL STREET	0	21.5	\$1,630,070
2018	Southampton	604738	RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3,801 FEET)	75	18.8 (3.38)	\$2,710,700
	Southampton	604653	REHABILITATION OF EAST STREET - FROM COLLEGE HIGHWAY EASTERLY TO COUNTY ROAD (2.6 MILES)	25	31.5	\$5,022,200
	Southwick	606141	RECONSTRUCTION OF FEEDING HILLS ROAD (ROUTE 57), FROM COLLEGE HIGHWAY TO THE AGAWAM T.L.	0	38.5	\$4,080,000
	Southwick	604155	RESURFACING & RELATED WORK ON ROUTE 10/202, COLLEGE HIGHWAY (NORTHERLY SECTION) FROM THE WESTFIELD/SOUTHWICK T.L. TO TANNERY ROAD (1.4 MILES)	0	18.0	\$1,440,000
	Springfield	608717	SPRINGFIELD- RECONSTRUCTION OF SUMNER AVENUE AT DICKINSON STREET AND BELMONT AVENUE (THE "X")	0	67.5	\$6,159,500.00
2020	Springfield	608718	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE AVENUE, COTTAGE AND HARVEY	0	53.0	\$2,063,908.40

			STREETS			
2020	Springfield	608782	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT COTTAGE STREET, ROBBINS ROAD AND INDUSTRY AVE	0	49.5	\$1,800,000
2019	Springfield	608411	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	0	47.5	\$1,860,000
	Wales	608163	WALES- RECONSTRUCTION & IMPROVEMENTS ON MONSON ROAD, FROM THE MONSON T.L. TO REED HILL ROAD (1.5 MILES)	0	39.5	\$3,452,400
	Wales	605669	PEDESTRIAN ACCESS IMPROVEMENTS & RELATED WORK ON ROUTE 19	0	9.0	\$312,500
2019	Ware	607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	25	55.0	\$2,175,785
	Ware	603874	RESURFACING & RELATED WORK ON ROUTE 9, FROM .1 MILE WEST OF THE WARE T.L. EASTERLY TO MM 64.7 IN WARE (2.1 MILES)	0	15.0	\$1,273,145
2022	West Springfield	608374	RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	0	65.0	\$14,280,000
	West Springfield	604746	BRIDGE REPLACEMENT, W-21-006, CSX RAILROAD OVER UNION STREET	0	21.0	\$12,403,054
2018	Westfield	603449	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I) Cost = \$6,133,933 - \$2,503,688HPP	25	57.5	\$3,630,245
2020	Westfield	607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II) Eastern Section	25	48.5	\$6,047,573
2020 NHPP	Westfield	608487	WESTFIELD- RESURFACING AND RELATED WORK ON ROUTE 10 AND 202	0	21	\$2,760,000
	Westfield	604445	RECONSTRUCTION ON ROUTE 187, INCLUDES REPLACEMENT OF W-25-002, SHERMAN'S MILL BRIDGE OVER GREAT BROOK AT PONTOOSIC ROAD			\$6,250,000
2020 NHPP	Wilbraham	608489	WILBRAHAM- RESURFACING AND RELATED WORK ON ROUTE 20	0	36.0	\$9,441,500
	Williamsburg	607231	Reconstruction of High Street and Mountain Street	0	13.0	\$3,600,000
	Worthington	606912	Route 143 Reconstruction and Related Work	25	40.0	\$14,800,000

Table 15: Universe of Projects (CMAQ Eligible)

FFY	Community	SID	Project Name and Description	Design	TEC Score	Estimated Cost
2018	Agawam	604203	Route 187/57 Intersection Improvements	0	58.0	\$3,288,000
	Agawam	603372	RECONSTRUCTION ON ROUTE 5 CONNECTOR TO ROUTE 57, INCLUDES A-05-013 & A-05-014	0	53.0	\$2,234,080
2019 SW CMAQ	Chicopee	602911	CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES) INCL NEW BRIDGE OVER OVERFLOW CHANNEL	75	27 (4.85)	\$3,122,734
2020	Chicopee	604434	RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	25	48.0	\$7,501,081
2021 SW CMAQ	Chicopee	602912	CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	25	28 (5.02)	\$2,030,278
2018 Sw HSIP	Chicopee	607736	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO ABBEY STREET	0	41.0	\$5,800,000
2022	Granby	606895	Route 202 Intersection Improvements 2 Locations @ 5 Corners and @ School Street	25	42.0	\$1,224,372
2020 SW CMAQ	Holyoke	606450	TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	25	45.5	\$4,234,543
2022	Holyoke	606156	RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	0	46.5	\$2,990,728
2021	Holyoke /West Springfield	604209	REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES)	0	51.0	\$4,457,830
2019	Northampton	608236	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, IONSTRUNCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL (old#180525)	25	66.5	\$2,710,700
2018	Northampton	604597	I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD	25	65.0	\$7,438,490
2018 SW CMAQ	Northampton	606555	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET)	25	55.0	\$4,612,652

			& HATFIELD STREET			
	Northampton	608729	NORTHAMPTON- IMPROVEMENTS AND RELATED WORK ON MAIN STREET (ROUTE 9) FROM MASONIC STREET TO MARKET/HAWLET STREET (0.33 MILES)	0	74.0	\$5,900,000.00
	Northampton	607893	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	0	68.0	\$2,000,000
2021	Northampton	607502	INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	0	65.0	\$2,610,000
	Northampton	608413	NORTHAMPTON- ROCKY HILL GREENWAY MULTI-USE TRAIL, FROM THE MANHAN RAIL TRAIL TO ROCKY HILL ROAD (0.4 MILES)	0	32.0	\$621,050
	Southampton	607823	GREENWAY RAIL TRAIL CONSTRUCTION, FROM COLEMAN RD TO ROUTE 10 (3.5 MILES)	0	20	\$6,080,722
2018 SW CMAQ	Springfield	607589	SPRINGFIELD- NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER THE CONNECTICUT RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES CONSTRUCTION OF NEW BRIDGE S-24-044	25	25.0	\$7,062,118
2019	Springfield	608411	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	0	47.5	\$1,860,000
2021 SW CMAQ	Springfield	608157	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	0	30.5	\$3,311,946
2019	Ware	607987	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I) Cost = \$6,133,933 - \$2,503,688HPP	25	55.0	\$3,630,245
2022	West Springfield	608374	This is a Complete Streets project for the Memorial Avenue (Route 147) corridor.	0	65.0	\$15,500,000
2020	Westfield	607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II) Eastern Section	25	48.5	\$6,047,573

2019 SW CMAQ	Westfield	603783	COLUMBIA GREENWAY RAIL TRAIL – Central Section extending from the south bank of the Westfield River to Main Street (approx. 1 mile with access ramps) and including 1 historic bridge preservation and 4 bridge replacements over roadways.	75	36.51 (6.58)	\$6,250,000
	Westfield	608073	WESTFIELD RIVER LEVEE MULTI-USE PATH CONSTRUCTION, FROM CONGRESS ST TO WILLIAMS RIDING WAY (NEAR MEADOW ST) (2MILES)	0	36	\$4,801,730
	Williamsburg	608787	RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	0	29.0	\$14,280,000

Table 15: Projects Awaiting Design and Funds (Appendix Z) (Cont.) High Priority Project Listing (HPP)

Project Description	City/Town	Project ID	Funding	Fed. Funds	State Funds	Total	Notes
Route 20 Access Improvements on Court Street & Western Avenue This reconstruction project on city-owned streets begins at Court Street at the intersection of Mill and High Street, and runs 0.2 miles westerly to Western Avenue, then westerly 2.25 miles to the intersection of Bates Road. The project will include traffic signal installation at Lloyd's Hill and an upgrade at Mill and High Streets	Westfield	603449	HPP-4287	\$2,002,950	\$500,738	\$2,503,688	
Route 32 Ware Road Reconstruction (\$22,854,850)	Palmer	601504	HPP-4287	\$2,303,744	\$575,936	\$2,879,680	
		602844;					#602844 was advertised on 9/30/06; #604443 was advertised on 8/8/09
		604443;					#604451 was advertised on 9/1/2007
Design and construction of Southwick and Westfield Rail Trail	Southwick/Westfield	603783	HPP-1656	\$1,857,506	\$464,377	\$46,779	#604447 was advertised on 9/22/07
*Construct Access roads to Hospital Hill (\$1,652,818)	Northampton	604451	HPP-158	\$302,865	\$75,716	\$378,581	#602338 was advertised on 12/6/2008
*State St. Corridor Redevelopment Project (\$18,052,897)	Springfield	604447	HPP-217	\$899,056	\$224,764	\$1,123,820	#604822 was advertised on 9/8/2007
*Design and construct 1.5 mile Red Stone Rail Trail(\$1,112,074)	East Longmeadow	602338	HPP-578	\$224,764	\$56,191	\$280,955	
*Intersection improvements Memorial Park II - Roosevelt Ave. (\$2,310,853)	Springfield	604822	HPP-836	\$149,843	\$37,461	\$187,304	
Design north and southbound ramps on I-91 at Exit 19 (\$15,000,000)	Northampton	604597	HPP-847	\$224,764	\$56,191	\$280,955	
Upgrade Route 9 - Calvin Coolidge bridge (1998) (\$31,840,515)	Hadley	124913	HPP - 862	\$83,828	\$20,957	\$104,785	#124913 was advertised on 9/30/2000
Total Project Cost				\$8,049,320	\$2,012,330	\$10,061,650	
Earmarks located in Appendix Z will remain un-programmed until full project funding is available							

Projects list in appendix Z are shown for informational purposes and are not programmed in the TIP. If additional funds become available projects from this list could be added if the selected project would be ready for advertisement in that program year

V. Transit Project Listing for FFY 2018-2022

The following is a complete listing of programmed transit projects for FFY 2018-2022

Table 16: FFY 2018 Transit Project Information

FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC	Local Funds	Total Cost
5307										
	5307 RTD0005802	Pioneer Valley Transit Authority	117A00	Preventive Maintenance		\$4,520,000	\$1,130,000	\$0	\$0	\$5,650,000
	5307 RTD0005803	Pioneer Valley Transit Authority	117C00	ADA Operating Projects		\$1,231,541	\$307,885	\$0	\$0	\$1,539,426
	5307 RTD0005804	Pioneer Valley Transit Authority	442301	Planning		\$221,400	\$55,350	\$0	\$0	\$276,750
	5307 RTD0005805	Pioneer Valley Transit Authority	114406	Purchase & Replace Shop Equipment		\$116,000	\$29,000	\$0	\$0	\$145,000
	5307 RTD0005806	Pioneer Valley Transit Authority	119302	Transit Enhancements: Shelters		\$100,000	\$25,000	\$0	\$0	\$125,000
	5307 RTD0005807	Pioneer Valley Transit Authority	119308	Transit Enhancements: Signs/Lighting		\$12,000	\$3,000	\$0	\$0	\$15,000
	5307 RTD0005813	Pioneer Valley Transit Authority	114211	Support Vehicle (1)		\$48,000	\$12,000	\$0	\$0	\$60,000
	5307 RTD0005814	Pioneer Valley Transit Authority	114402	Environmental Compliance		\$60,000	\$15,000	\$0	\$0	\$75,000
	5307 RTD0005815	Pioneer Valley Transit Authority	119306	Purchase bicycle Equipment for shelters and buses		\$4,000	\$1,000	\$0	\$0	\$5,000
	5307 RTD0005860	Pioneer Valley Transit Authority	114411	Replacement Supervisory Vehicles (3)		\$80,000	\$20,000	\$0	\$0	\$100,000
	5307 RTD0005861	Pioneer Valley Transit Authority	111215	Replacement Vans (4)		\$227,036	\$56,759	\$0	\$0	\$283,795
	5307 RTD0005827	Pioneer Valley Transit Authority	111204	Replace Mini Buses for Shuttles (3)		\$216,000	\$54,000	\$0	\$0	\$270,000
	5307 RTD0005832	Pioneer Valley Transit Authority	114402	Design/Construction Admin to retrofit SATCO to Paratransit		\$160,000	\$40,000	\$0	\$0	\$200,000
	5307 RTD0006252	Pioneer Valley Transit Authority	114302	Cottage Street Design and Construction Administration, Year 2		\$3,909,174	\$0	\$977,294	\$0	\$3,909,174
	5307 RTD0006253	Pioneer Valley Transit Authority	114401	Window and brick restoration, PVTA Admin & SATCO Admin		\$596,000	\$149,000	\$0	\$0	\$745,000
	5307 RTD0006183	Pioneer Valley Transit Authority	111201	Replacement 40' Buses (4)		\$621,519	\$621,519	\$0	\$918,593	\$2,161,631
	5307 RTD0005828	Pioneer Valley Transit Authority	114220	Misc. Communications Systems and ITS		\$2,320,000	\$580,000	\$0	\$0	\$2,900,000
				Subtotal		\$14,442,670	\$3,099,513	\$977,294	\$918,593	\$18,460,776
5309										
				Subtotal		\$0	\$0	\$0	\$0	\$0
5310										
				Subtotal		\$0	\$0	\$0	\$0	\$0
5311										
				Subtotal		\$0	\$0	\$0	\$0	\$0

Table 16: FFY 2018 Transit Project Information (Continued)

5337					Subtotal	\$0	\$0	\$0	\$0	\$0
5339										
5339	RTD0005862	Pioneer Valley Transit Authority	111216	Purchase - Replacement: Vans (23)		\$1,186,905	\$312,426	\$0	\$0	\$1,499,331
					Subtotal	\$1,186,905	\$312,426	\$0	\$0	\$1,499,331
5320					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Federal					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Federal										
Other	RTD0005831	Pioneer Valley Transit Authority	114302	Construct Cottage Street Facility, Year 2		\$0	\$36,779,497	\$0	\$0	\$36,779,497
Non-Federal					Subtotal	\$0	\$36,779,497	\$0	\$0	\$36,779,497
					Total	\$15,629,575	\$40,191,436	\$977,294	\$918,593	\$56,739,604

Table 17: FFY 2019 Transit Project Information

FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC	Local Funds	Total Cost
5307										
5307	RTD0005808	Pioneer Valley Transit Authority	114406	Purchase & Replace Shop Equipment	2018 - \$480,000	\$480,000	\$120,000	\$0	\$0	\$600,000
5307	RTD0005809	Pioneer Valley Transit Authority	114402	REHAB/RENOVATE - Environmental Compliance	2018 - \$120,000	\$120,000	\$30,000	\$0	\$0	\$150,000
5307	RTD0005810	Pioneer Valley Transit Authority	119302	Purchase Bus Shelters, benches, trash receptacles, etc.	2018 - \$100,000	\$100,000	\$25,000	\$0	\$0	\$125,000
5307	RTD0005811	Pioneer Valley Transit Authority	119308	Purchase & Replace signage and lighting	2018 - \$12,000	\$12,000	\$3,000	\$0	\$0	\$15,000
5307	RTD0005812	Pioneer Valley Transit Authority	119306	Purchase bicycle Equipment for shelters and buses	2018 - \$4,000	\$4,000	\$1,000	\$0	\$0	\$5,000
5307	RTD0005816	Pioneer Valley Transit Authority	442400	Transportation Planning	2018 - \$226,935	\$226,935	\$56,734	\$0	\$0	\$283,669
5307	RTD0005817	Pioneer Valley Transit Authority	117C00	ADA Service subsidy	2018 - \$1,250,014	\$1,250,014	\$312,504	\$0	\$0	\$1,562,518
5307	RTD0005818	Pioneer Valley Transit Authority	117A00	Preventive Maintenance	2018 - \$4,633,000	\$4,633,000	\$1,158,250	\$0	\$0	\$5,791,250
5307	RTD0005837	Pioneer Valley Transit Authority	114211	Purchase & Replace support vehicles	2018 - \$520,000	\$520,000	\$130,000	\$0	\$0	\$650,000
5307	RTD0005838	Pioneer Valley Transit Authority	114411	Purchase replacement supervisory vehicles (1)	2018 - \$28,000	\$28,000	\$7,000	\$0	\$0	\$35,000
5307	RTD0005839	Pioneer Valley Transit Authority	116220	Information Technology Systems	2018 - \$2,600,000	\$2,600,000	\$650,000	\$0	\$0	\$3,250,000
5307	RTD0006103	Pioneer Valley Transit Authority	114302	Cottage Street Design and Construction Administration, Year 3	2018 - \$2,160,579	\$2,160,579	\$0	\$540,145	\$0	\$2,160,579
5307	RTD0006333	Pioneer Valley Transit Authority	111215	BUY REPLACEMENT VAN (7)	2018 - \$365,616	\$365,616	\$91,404	\$0	\$0	\$457,020
Subtotal						\$12,500,144	\$2,584,892	\$540,145	\$0	\$15,085,036
5309										
Subtotal						\$0	\$0	\$0	\$0	\$0
5310										
Subtotal						\$0	\$0	\$0	\$0	\$0
5311										
Subtotal						\$0	\$0	\$0	\$0	\$0
5337										
Subtotal						\$0	\$0	\$0	\$0	\$0

5339										
5339	RTD0005864	Pioneer Valley Transit Authority	111215	Purchase Replacement Vans (27)	2018 - \$849,907	\$849,907	\$1,005,854	\$0	\$0	\$1,855,761
Subtotal						\$849,907	\$1,005,854	\$0	\$0	\$1,855,761
5320										
Subtotal						\$0	\$0	\$0	\$0	\$0
Other Federal										
Subtotal						\$0	\$0	\$0	\$0	\$0
Other Non-Federal										
Other	RTD0005870	Pioneer Valley Transit Authority	114302	Retrofit SATCO facility to paratransit		\$0	\$525,000	\$0	\$0	\$525,000
Other	RTD0006102	Pioneer Valley Transit Authority	114302	Cottage Street Construction, Year 3		\$0	\$9,824,862	\$0	\$0	\$9,824,862
Subtotal						\$0	\$10,349,862	\$0	\$0	\$10,349,862
Total						\$13,350,051	\$13,940,608	\$540,145	\$0	\$27,290,659

Funds listed under the Carry Over column are included in the Federal Amount

Table 18: FFY 2020 Transit Project Information

FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC	Local Funds	Total Cost
5307										
5307	RTD0004756	Pioneer Valley Transit Authority	114220	Information Technology Systems	2019 - \$2,400,000	\$2,400,000	\$600,000	\$0	\$0	\$3,000,000
5307	RTD0005820	Pioneer Valley Transit Authority	119202	Purchase Bus Shelters, benches, trash receptacles, etc.	2019 - \$100,000	\$100,000	\$25,000	\$0	\$0	\$125,000
5307	RTD0005821	Pioneer Valley Transit Authority	119208	Purchases signage and lighting	2019 - \$12,000	\$12,000	\$3,000	\$0	\$0	\$15,000
5307	RTD0005822	Pioneer Valley Transit Authority	119206	Purchase bicycle Equipment for shelters and buses	2019 - \$4,000	\$4,000	\$1,000	\$0	\$0	\$5,000
5307	RTD0005823	Pioneer Valley Transit Authority	114402	Environmental Compliance	2019 - \$60,000	\$60,000	\$15,000	\$0	\$0	\$75,000
5307	RTD0005824	Pioneer Valley Transit Authority	442301	Planning Services - Long Term System	2019 - \$232,608	\$232,608	\$58,152	\$0	\$0	\$290,760
5307	RTD0005825	Pioneer Valley Transit Authority	117C00	ADA Service subsidy	2019 - \$1,287,796	\$1,287,796	\$321,949	\$0	\$0	\$1,609,745
5307	RTD0005826	Pioneer Valley Transit Authority	117A00	Preventive Maintenance	2019 - \$4,748,825	\$4,748,825	\$1,187,206	\$0	\$0	\$5,936,031
5307	RTD0005843	Pioneer Valley Transit Authority	111201	Buy Replacement 40' Electric Bus (20)	2019 - \$2,232,731	\$2,232,731	\$2,232,731	\$0	\$0	\$4,465,462
5307	RTD0005845	Pioneer Valley Transit Authority	114411	Replace support vehicle (1)	2019 - \$60,000	\$60,000	\$15,000	\$0	\$0	\$75,000
5307	RTD0005846	Pioneer Valley Transit Authority	114406	Purchase & Replace Shop Equipment	2019 - \$240,000	\$240,000	\$60,000	\$0	\$0	\$300,000
5307	RTD0006099	Pioneer Valley Transit Authority	114402	Convert SATCO Maintenance Facility to Paratransit Operations	2019 - \$1,500,000	\$1,500,000	\$375,000	\$0	\$0	\$1,875,000
					Subtotal	\$12,877,960	\$4,894,038	\$0	\$0	\$17,771,998
5309										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5310										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5311										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5337										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5339										
5339	RTD0005866	Pioneer Valley Transit Authority	111215	Purchase Replacement Vans (21)	2019 - \$875,595	\$875,595	\$595,742	\$0	\$0	\$1,471,337
					Subtotal	\$875,595	\$595,742	\$0	\$0	\$1,471,337

5320						
	Subtotal	\$0	\$0	\$0	\$0	\$0
Other Federal						
	Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Federal						
	Subtotal	\$0	\$0	\$0	\$0	\$0
	Total	\$13,753,555	\$5,489,780	\$0	\$0	\$19,243,335

Funds listed under the Carry Over column are included in the Federal Amount

Table 20: FFY 2021 Transit Project Information

FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC	Local Funds	Total Cost
5307										
5307	RTD0005847	Pioneer Valley Transit Authority	111201	Replacement 40-FT Non-Electric BUS (9)	2020 - \$2,653,409	\$2,653,409	\$4,443,408	\$0	\$0	\$7,096,817
5307	RTD0005849	Pioneer Valley Transit Authority	114411	Replace Support Vehicles (10)	2020 - \$120,000	\$120,000	\$30,000	\$0	\$0	\$150,000
5307	RTD0005850	Pioneer Valley Transit Authority	114411	Replace Supervisory Vehicles (5)	2020 - \$28,000	\$28,000	\$7,000	\$0	\$0	\$35,000
5307	RTD0005851	Pioneer Valley Transit Authority	114406	Purchase/Replace Shop Equipment	2020 - \$88,000	\$88,000	\$22,000	\$0	\$0	\$110,000
5307	RTD0005852	Pioneer Valley Transit Authority	114402	Environmental Compliance	2020 - \$60,000	\$60,000	\$15,000	\$0	\$0	\$75,000
5307	RTD0005853	Pioneer Valley Transit Authority	119402	Bus Shelters, Benches, Trash Receptacles	2020 - \$100,000	\$100,000	\$25,000	\$0	\$0	\$125,000
5307	RTD0005854	Pioneer Valley Transit Authority	119408	Bus Stop Signage and Lighting	2020 - \$12,000	\$12,000	\$3,000	\$0	\$0	\$15,000
5307	RTD0005855	Pioneer Valley Transit Authority	119406	Bicycle access equipment for buses and shelters	2020 - \$4,000	\$4,000	\$1,000	\$0	\$0	\$5,000
5307	RTD0005856	Pioneer Valley Transit Authority	116202	Information Technology Systems	2020 - \$2,400,000	\$2,400,000	\$600,000	\$0	\$0	\$3,000,000
5307	RTD0005857	Pioneer Valley Transit Authority	440000	PLANNING	2020 - \$238,424	\$238,424	\$59,606	\$0	\$0	\$298,030
5307	RTD0005858	Pioneer Valley Transit Authority	300900	ADA OPERATING ASSISTANCE	2020 - \$1,307,113	\$1,307,113	\$326,778	\$0	\$0	\$1,633,891
5307	RTD0005859	Pioneer Valley Transit Authority	117A00	PREVENTIVE MAINTENANCE	2020 - \$4,867,546	\$4,867,546	\$1,216,886	\$0	\$0	\$6,084,432
5307	RTD0005868	Pioneer Valley Transit Authority	111215	Buy replacement Vans (21)	2020 - \$1,192,639	\$1,192,639	\$298,160	\$0	\$0	\$1,490,799
					Subtotal	\$13,071,131	\$7,047,838	\$0	\$0	\$20,118,969
5309										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5310										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5311										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5337										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5339										
5339	RTD0006325	Pioneer Valley Transit Authority	111215	Buy replacement Vans (15)	2020 - \$885,729	\$885,729	\$221,432	\$0	\$0	\$1,107,161
					Subtotal	\$885,729	\$221,432	\$0	\$0	\$1,107,161

5320						
	Subtotal	\$0	\$0	\$0	\$0	\$0
Other Federal						
	Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Federal						
	Subtotal	\$0	\$0	\$0	\$0	\$0
	Total	\$13,956,860	\$7,269,270	\$0	\$0	\$21,226,130

Funds listed under the Carry Over column are included in the Federal Amount

Table 20: FFY 2022 Transit Project Information

FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC	Local Funds	Total Cost
5307										
5307	RTD0006119	Pioneer Valley Transit Authority	111201	Purchase 40' Replacement Buses Electric (15)	2021 - \$653,453	\$653,453	\$1,948,871	\$0	\$0	\$2,602,324
5307	RTD0006150	Pioneer Valley Transit Authority	111202	Replace 35' Buses (4)	2021 - \$2,700,947	\$2,700,947	\$2,700,947	\$0	\$0	\$5,401,894
5307	RTD0006151	Pioneer Valley Transit Authority	111204	Replace mini Buses (4)	2021 - \$320,000	\$320,000	\$80,000	\$0	\$0	\$400,000
5307	RTD0006153	Pioneer Valley Transit Authority	114211	Purchase replacement support vehicles (1)	2021 - \$80,000	\$80,000	\$20,000	\$0	\$0	\$100,000
5307	RTD0006156	Pioneer Valley Transit Authority	114411	Replace Supevisory Vehicles (4)	2021 - \$112,000	\$112,000	\$28,000	\$0	\$0	\$140,000
5307	RTD0006157	Pioneer Valley Transit Authority	114406	Purchase shop equipment	2021 - \$88,000	\$88,000	\$22,000	\$0	\$0	\$110,000
5307	RTD0006158	Pioneer Valley Transit Authority	114402	Environmental Compliance	2021 - \$60,000	\$60,000	\$15,000	\$0	\$0	\$75,000
5307	RTD0006159	Pioneer Valley Transit Authority	119402	Purchase Shelters and shelter accessories	2021 - \$100,000	\$100,000	\$25,000	\$0	\$0	\$125,000
5307	RTD0006161	Pioneer Valley Transit Authority	119408	Signage & Lighting	2021 - \$12,000	\$12,000	\$3,000	\$0	\$0	\$15,000
5307	RTD0006162	Pioneer Valley Transit Authority	119406	Bike Access for shelters and Buses	2021 - \$4,000	\$4,000	\$1,000	\$0	\$0	\$5,000
5307	RTD0006164	Pioneer Valley Transit Authority	116202	Information Technology Systems	2021 - \$2,400,000	\$2,400,000	\$600,000	\$0	\$0	\$3,000,000
5307	RTD0006265	Pioneer Valley Transit Authority	117A00	Preventive Maintenance	2021 - \$4,989,234	\$4,989,234	\$1,247,309	\$0	\$0	\$6,236,543
5307	RTD0006266	Pioneer Valley Transit Authority	117C00	NON FIXED ROUTE ADA PARA SERV	2021 - \$1,307,113	\$1,307,113	\$326,778	\$0	\$0	\$1,633,891
5307	RTD0006267	Pioneer Valley Transit Authority	442301	LONGTERM TRANS PLAN - SYSTEM LEVEL	2021 - \$244,384	\$244,384	\$61,096	\$0	\$0	\$305,480
					Subtotal	\$13,071,131	\$7,079,001	\$0	\$0	\$20,150,132
5309										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5310										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5311										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5337										
					Subtotal	\$0	\$0	\$0	\$0	\$0
5339										
5339	RTD0006324	Pioneer Valley Transit Authority	111215	Purchase Replacement Vans (15)	2021 - \$888,729	\$888,729	\$222,182	\$0	\$0	\$1,110,911
					Subtotal	\$888,729	\$222,182	\$0	\$0	\$1,110,911

5320						
	Subtotal	\$0	\$0	\$0	\$0	\$0
Other Federal						
	Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Federal						
	Subtotal	\$0	\$0	\$0	\$0	\$0
	Total	\$13,959,860	\$7,301,183	\$0	\$0	\$21,261,043

Funds listed under the Carry Over column are included in the Federal Amount

VI. STATEWIDE FEDERAL AID PROJECT LISTING

The MassDOT provided each planning agency a listing of statewide items anticipated for FFY 2018 to 2022. These items are to be funded separately from the regional TIP program. This information is provided in the following Tables.

Table 21 Statewide Federal Aid Project Listing

► Bridge Program / Inspections											
Bridge Program	BR118	Statewide	Multiple	Bridge Inspection	Multiple	NHPP	\$ 13,000,000	\$ 10,400,000	\$ 2,600,000	2019-2020 NBIS Program	
Bridge Program	BR118	Statewide	Multiple	Bridge Inspection	Multiple	STP-BR-OFF	\$ 4,900,000	\$ 3,920,000	\$ 980,000	2019-2020 NBIS Program	
Bridge Program / Inspections subtotal ►							\$ 17,900,000	\$ 14,320,000	\$ 3,580,000	◄ Funding Split Varies by Funding Source	
► Bridge Program / Off-System											
Bridge Program	606632	Boston Region	Multiple	HOPKINTON- WESTBOROUGH- BRIDGE REPLACEMENT, H-23-006-W-24-016, FRUIT STREET OVER CSX & SUDBURY RIVER	3	STP-BR-OFF	\$ 12,993,071	\$ 10,394,457	\$ 2,598,614		
Bridge Program	607127	Berkshire Region	Hubbardston	HUBBARDSTON- BRIDGE REPLACEMENT, H-24-009, EVERGREEN ROAD OVER MASON BROOK	3	STP-BR-OFF	\$ 1,598,852	\$ 1,279,082	\$ 319,770		
Bridge Program	606638	Central Mass	Sutton	SUTTON- BRIDGE REPLACEMENT, S-33-005, BLACKSTONE STREET OVER BLACKSTONE RIVER	3	STP-BR-OFF	\$ 3,840,295	\$ 3,072,236	\$ 768,059		
Bridge Program	604655	Boston Region	Marshfield	MARSHFIELD- BRIDGE REPLACEMENT, M-07-007, BEACH STREET OVER THE CUT RIVER	5	STP-BR-OFF	\$ 4,189,856	\$ 3,351,884	\$ 837,971		
Bridge Program	607533	Boston Region	Waltham	WALTHAM- BRIDGE REPLACEMENT, W-04-006, WOERD AVENUE OVER CHARLES RIVER	4	STP-BR-OFF	\$ 2,197,943	\$ 1,758,354	\$ 439,589		
Bridge Program	608179	Montachusett	Royalston	ROYALSTON- BRIDGE REPLACEMENT, R-12-009, NORTH FITZWILLIAM ROAD OVER LAWRENCE BROOK	2	STP-BR-OFF	\$ 1,721,880	\$ 1,377,504	\$ 344,376		
Bridge Program	608125	Berkshire Region	Sheffield	SHEFFIELD- BRIDGE REPLACEMENT, S-10-002, ROUTE 7A (ASHLEY FALLS RD) OVER THE HOUSATONIC RIVER	1	STP-BR-OFF	\$ 6,732,816	\$ 5,386,253	\$ 1,346,563		
Bridge Program / Off-System subtotal ►							\$ 33,274,713	\$ 26,619,770	\$ 6,654,943	◄ 80% Federal + 20% Non-Federal	
► Bridge Program / On-System (NHS)											
Bridge Program	604952	Boston Region	Multiple	LYNN- SAUGUS- BRIDGE REPLACEMENT, L-18-016-S-05-008, ROUTE 107 OVER THE SAUGUS RIVER (AKA - BELDEN G. BLY BRIDGE)	4	NHPP-On	\$ 51,527,391	\$ 41,221,913	\$ 10,305,478		
Bridge Program	605306	Merrimack Valley	Haverhill	HAVERHILL- SUPERSTRUCTURE REPLACEMENT, H-12-039, I-495 (NB & SB) OVER MERRIMACK RIVER	4	NHPP-On	\$ 31,600,000	\$ 25,280,000	\$ 6,320,000	AC Year 1 of 4, Total Cost \$79,000,000	
Bridge Program	600936	Pioneer Valley	Holyoke	HOLYOKE- BRIDGE REPLACEMENT, H-21-018, LYMAN STREET OVER FIRST LEVEL CANAL	2	NHPP-On	\$ 11,762,603	\$ 9,410,082	\$ 2,352,521		
Bridge Program	605094	Montachusett	Fitchburg	FITCHBURG- BRIDGE REPLACEMENT, F-04-003, STATE ROUTE 31 OVER PHILLIPS BROOK	3	NHPP-On	\$ 4,738,140	\$ 3,790,512	\$ 947,628		
Bridge Program	604173	Boston Region	Boston	BOSTON- BRIDGE REHABILITATION, B-16-016, NORTH WASHINGTON STREET OVER THE BOSTON INNER HARBOR	6	NHPP-On	\$ 42,000,000	\$ 33,600,000	\$ 8,400,000	AC Year 2 of 5, Total Cost \$144,066,616	
Bridge Program / On-System (NHS) subtotal ►							\$ 141,628,134	\$ 113,302,507	\$ 28,325,627	◄ Funding Split Varies by Funding Source	
► Bridge Program / On-System (Non-NHS)											
Bridge Program	608235	Franklin Region	Greenfield	GREENFIELD- BRIDGE REPLACEMENT, G-12-006, NASH'S MILL ROAD OVER GREEN RIVER	2	NHPP-Off	\$ 2,452,650	\$ 1,962,120	\$ 490,530		
Bridge Program	603513	Montachusett	Gardner	GARDNER- BRIDGE REPLACEMENT, G-01-008, PLEASANT STREET OVER THE B&M RAILROAD	3	NHPP-Off	\$ 4,404,240	\$ 3,523,392	\$ 880,848		
Bridge Program	PV0002	Pioneer Valley	Palmer	PALMER - BRIDGE REHABILITATION, P-01-005, MAIN STREET OVER QUABOAG RIVER	2	NHPP-Off	\$ 3,000,000	\$ 2,400,000	\$ 600,000		
Bridge Program / On-System (Non-NHS) subtotal ►							\$ 9,856,890	\$ 7,885,512	\$ 1,971,378	◄ 80% Federal + 20% Non-Federal	

► Bridge Program / Systematic Maintenance											
Bridge Program	607915	Boston Region	Multiple	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-On	\$ 1,596,667	\$ 1,277,334	\$ 319,333		
Bridge Program	607939	Pioneer Valley	Cummington	CUMMINGTON- BRIDGE MAINTENANCE, C-21-025, ROUTE 9 OVER THE WESTFIELD RIVER	1	NHPP-Off	\$ 312,000	\$ 249,600	\$ 62,400		
Bridge Program	608521	Boston Region	Salem	SALEM- BRIDGE MAINTENANCE, S-01-018 (32T), (ST 114) NORTH STREET OVER (ST 107) BRIDGE STREET & MBTA	4	NHPP-Off	\$ 2,400,000	\$ 1,920,000	\$ 480,000		
Bridge Program / Systematic Maintenance subtotal ►							\$ 4,308,667	\$ 3,446,934	\$ 861,733	◀ Funding Split Varies by Funding Source	
► Interstate Pavement											
Interstate Pavement	608209	Statewide	Multiple	LITTLETON- WESTFORD- INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	3	NHPP	\$ 17,888,000	\$ 16,099,200	\$ 1,788,800	Construction / Includes \$250,000 of stormwater improvements	
Interstate Pavement	608822	Central Mass	Multiple	AUBURN- WORCESTER- PAVEMENT PRESERVATION AND RELATED WORK ON I-290	3	NHPP	\$ 5,022,080	\$ 4,519,872	\$ 502,208	Construction	
Interstate Pavement	607566	Southeastern Mass	Multiple	SEEKONK- REHOBOTH- INTERSTATE MAINTENANCE & RELATED WORK ON I-195	5	NHPP	\$ 11,537,936	\$ 10,384,142	\$ 1,153,794	Construction / Includes \$2,000,000 of stormwater improvements	
Interstate Pavement	608377	Southeastern Mass	Multiple	DARTMOUTH- NEW BEDFORD- INTERSTATE MAINTENANCE AND RELATED WORK ON I-195	5	NHPP	\$ 11,217,552	\$ 10,095,797	\$ 1,121,755	Construction	
Interstate Pavement	608823	Boston Region	Multiple	WELLESLEY- NEWTON- WESTON- PAVEMENT RESURFACING AND RELATED WORK ON I-95	6	NHPP	\$ 6,074,640	\$ 5,467,176	\$ 607,464	Construction	
Interstate Pavement subtotal ►							\$ 51,740,208	\$ 46,566,187	\$ 5,174,021	◀ 90% Federal + 10% Non-Federal	
► Non-Interstate Pavement											
Non-Interstate Pavement	608465	Berkshire Region	Multiple	LENOX- LEE- STOCKBRIDGE- RESURFACING AND RELATED WORK ON ROUTE 7	1	NHPP	\$ 2,945,280	\$ 2,356,224	\$ 589,056	Construction	
Non-Interstate Pavement	608488	Statewide	Multiple	AMHERST- LEVERETT- SUNDERLAND- RESURFACING AND RELATED WORK ON	2	NHPP	\$ 5,074,590	\$ 4,059,672	\$ 1,014,918	Construction	
Non-Interstate Pavement	608808	Central Mass	Multiple	MILLVILLE- UXBRIDGE- PAVEMENT PRESERVATION AND RELATED WORK ON ROUTE 146	3	NHPP	\$ 4,715,280	\$ 3,772,224	\$ 943,056	Construction	
Non-Interstate Pavement	608008	Boston Region	Saugus	SAUGUS- RESURFACING AND RELATED WORK ON ROUTE 1	4	NHPP	\$ 9,812,880	\$ 7,850,304	\$ 1,962,576	Construction	
Non-Interstate Pavement	608478	Boston Region	Concord	CONCORD- RESURFACING AND RELATED WORK ON ROUTE 2	4	NHPP	\$ 4,248,000	\$ 3,398,400	\$ 849,600	Construction	
Non-Interstate Pavement	608379	Boston Region	Multiple	LEXINGTON- BELMONT- ARLINGTON- CAMBRIDGE- PAVEMENT PRESERVATION ON ROUTE 2	4	NHPP	\$ 8,437,000	\$ 6,749,600	\$ 1,687,400	Construction / Includes \$1,040,000 of stormwater improvements	
Non-Interstate Pavement	608809	Merrimack Valley	Multiple	LAWRENCE- NORTH ANDOVER- RESURFACING AND RELATED WORK ON ROUTE 114	4	NHPP	\$ 8,722,560	\$ 6,978,048	\$ 1,744,512	Construction	
Non-Interstate Pavement	608455	Statewide	Multiple	PLYMOUTH- KINGSTON- CARVER- PLYMPTON- RESURFACING AND RELATED WORK ON ROUTE 44 (FROM MM28.8 TO 36.4)	5	NHPP	\$ 10,789,920	\$ 8,631,936	\$ 2,157,984	Construction	
Non-Interstate Pavement	608069	Boston Region	Multiple	MARSHFIELD- PEMBROKE- NORWELL- HANOVER- ROCKLAND- HINGHAM- RESURFACING & RELATED WORK ON ROUTE 3	5	NHPP	\$ 13,876,216	\$ 11,100,973	\$ 2,775,243	Construction / Includes \$400,000 of stormwater improvements	
Non-Interstate Pavement subtotal ►							\$ 68,621,726	\$ 54,897,381	\$ 13,724,345	◀ 80% Federal + 20% Non-Federal	
► Roadway Improvements											
Roadway Improvements	607993	Statewide	Multiple	AYER- NATICK- LEOMINSTER- WORCESTER- STORMWATER IMPROVEMENTS ALONG ROUTE 2, ROUTE 9, ROUTE 12, ROUTE 2A, ROUTE 110, ROUTE 111 AND I-290	3	STP	\$ 1,215,000	\$ 972,000	\$ 243,000	Construction	
Roadway Improvements	607995	Statewide	Multiple	LOWELL- CHELMSFORD- ANDOVER- STORMWATER IMPROVEMENTS ALONG ROUTE 28 AND I-495	4	STP	\$ 2,160,000	\$ 1,728,000	\$ 432,000	Construction	
Roadway Improvements	608394	Central Mass	Sturbridge	STURBRIDGE- STORMWATER IMPROVEMENTS ALONG ROUTE 20 AND INTERSTATE 84	3	STP	\$ 700,000	\$ 560,000	\$ 140,000	Construction	
Roadway Improvements subtotal ►							\$ 4,075,000	\$ 3,260,000	\$ 815,000	◀ 80% Federal + 20% Non-Federal	

► Safety Improvements											
Safety Improvements	606381	Boston Region	Multiple	ARLINGTON- BELMONT- HIGHWAY LIGHTING REPAIR & MAINTENANCE ON ROUTE 2	4	STP	\$ 9,100,506	\$ 7,280,405	\$ 1,820,101	Construction	
Safety Improvements	607917	Central Mass	Multiple	AUBURN TO WORCESTER- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 290	3	HSIP	\$ 5,323,510	\$ 4,791,159	\$ 532,351	Construction	
Safety Improvements	608204	Statewide	Multiple	ATTLEBORO TO NORWOOD- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF I-95	5	HSIP	\$ 5,137,288	\$ 4,623,559	\$ 513,729	Construction	
Safety Improvements	607916	Statewide	Multiple	FALL RIVER TO RANDOLPH- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE 24	5	HSIP	\$ 2,225,445	\$ 2,002,901	\$ 222,545	Construction / Total Project Cost is \$8,637,150 / AC YR 2 of 2	
Safety Improvements	608833	Statewide	Multiple	PLACEHOLDER - HIGH RISK RURAL ROAD PROJECT	Multiple	HSIPR	\$ 2,273,676	\$ 2,046,308	\$ 227,368	Construction	
Safety Improvements	607919	Statewide	Multiple	BOLTON TO LOWELL- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 495	Multiple	HSIP	\$ 5,886,774	\$ 5,298,097	\$ 588,677	Construction	
Safety Improvements subtotal ►							\$ 29,947,199	\$ 26,042,429	\$ 3,904,771	◀ Funding Split Varies by Funding Source	
► Section 2B / State Prioritized Modernization Projects											
► ADA Retrofits											
ADA Retrofits	Project #	MPO	Municipalities	Description	District	STP	\$ -	\$ -	\$ -		
ADA Retrofits	Project #	MPO	Municipalities	Description	District	STP	\$ -	\$ -	\$ -		
ADA Retrofits subtotal ►							\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal	
► Intersection Improvements											
Intersection Improvements	608651	Boston Region	Braintree	BRAINTREE- ADAPTIVE SIGNAL CONTROLS ON ROUTE 37 (GRANITE STREET)	6	CMAQ	\$ 500,000	\$ 400,000	\$ 100,000	Construction	
Intersection Improvements	607760	Berkshire Region	Pittsfield	PITTSFIELD- INTERSECTION & SIGNAL IMPROVEMENTS AT 9 LOCATIONS ALONG SR 8 & SR 9	1	HSIP	\$ 1,468,400	\$ 1,321,560	\$ 146,840	Construction / PSAC score 56	
Intersection Improvements	608188	Montachusett	Gardner	GARDNER- LEOMINSTER- STERLING- INTERSECTION IMPROVEMENTS AT 3 LOCATIONS	3	HSIP	\$ 500,000	\$ 450,000	\$ 50,000	Construction / PSAC score 53.5	
Intersection Improvements	608295	Statewide	Multiple	DISTRICT 5- IMPLEMENTATION OF FLASHING YELLOW ARROW AT VARIOUS TRAFFIC SIGNALS	5	HSIP	\$ 2,371,200	\$ 2,134,080	\$ 237,120	Construction	
Intersection Improvements	608581	Statewide	Multiple	STATEWIDE- VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP- TO BE DETERMINED (2018)	Multiple	HSIP	\$ 4,000,000	\$ 3,600,000	\$ 400,000	Construction	
Intersection Improvements	607860	Old Colony	Whitman	WHITMAN- TRAFFIC SIGNAL IMPROVEMENTS & RELATED WORK ON BEDFORD STREET (ROUTE 18) AT 2 LOCATIONS: AUBURN STREET (ROUTE 14) & TEMPLE STREET (ROUTE 27)	5	CMAQ	\$ 3,964,260	\$ 3,171,408	\$ 792,852	Construction / PSAC score 57	
Intersection Improvements subtotal ►							\$ 12,803,860	\$ 11,077,048	\$ 1,726,812	◀ Funding Split Varies by Funding Source	
► Intelligent Transportation Systems											
Intelligent Transportation Systems	608607	Statewide	Multiple	DISTRICTS 3 AND 5 - ITS EQUIPMENT (CCTV CAMERAS, TRAFFIC SENSORS, AND VMS) FOR HIGHWAY OPERATIONS	Multiple	NHPP	\$ 1,124,000	\$ 899,200	\$ 224,800	Construction / Total Project Cost = \$6,250,000 / AC YR 2 of 2	
Intelligent Transportation Systems	606938	Statewide	Multiple	DISTRICTS 4 AND 6 - EXPANSION OF ITS EQUIPMENT (CCTV CAMERAS, TRAFFIC SENSORS, AND VMS) FOR HIGHWAY OPERATIONS	Multiple	NHPP	\$ 6,250,000	\$ 5,000,000	\$ 1,250,000	Construction	
Intelligent Transportation Systems	607487	Statewide	Multiple	DISTRICTS 3 AND 5 - EXPANSION OF ITS EQUIPMENT (CCTV CAMERAS, TRAFFIC SENSORS, AND VMS) FOR HIGHWAY OPERATIONS	Multiple	NHPP	\$ 5,126,000	\$ 4,100,800	\$ 1,025,200	Construction / Total Project Cost = \$6,250,000 / AC YR 1 of 2	
Intelligent Transportation System subtotal ►							\$ 12,500,000	\$ 10,000,000	\$ 2,500,000	◀ 80% Federal + 20% Non-Federal	

► Roadway Reconstruction

Roadway Reconstruction	606507	Franklin Region	Charlemont	CHARLEMONT- ROADWAY RECONSTRUCTION AND VILLAGE CENTER TRAFFIC CALMING ON ROUTE 2, FROM MM 29.5 TO MM 31.0	1	CMAQ	\$ 1,328,911	\$ 1,063,129	\$ 265,782	Construction / Total Project Cost = \$6,543,237 w/ \$5,214,326 of Franklin regional funding / PSAC score 30.5
Roadway Reconstruction	608001	Southeastern Mass	Fall River	FALL RIVER- IMPROVEMENTS AT VIVEIROS ELEMENTARY SCHOOL (SRTS)	5	TAP	\$ 1,256,040	\$ 1,004,832	\$ 251,208	Construction / TAP project proponent is Fall River
Roadway Reconstruction	608191	Central Mass	West Brookfield	WEST BROOKFIELD- SIDEWALK AND WHEELCHAIR CONSTRUCTION ON ROUTE 9	2	CMAQ	\$ 756,024	\$ 604,819	\$ 151,205	Construction / PSAC Score 16
Roadway Reconstruction	608747	Southeastern Mass	New Bedford	NEW BEDFORD- IMPROVEMENTS AT ASHLEY AND LINCOLN ELEMENTARY SCHOOLS (SRTS)	5	TAP	\$ 1,545,600	\$ 1,236,480	\$ 309,120	Construction / TAP project proponent is New Bedford
Roadway Reconstruction subtotal ►							\$ 4,886,575	\$ 3,909,260	\$ 977,315	◀ 80% Federal + 20% Non-Federal

► Section 2C / State Prioritized Expansion Projects

► Bicycles and Pedestrians

Bicycles and Pedestrians	607737	Merrimack Valley	Multiple	AMESBURY- SALISBURY- TRAIL CONNECTOR @ I-95	4	CMAQ	\$ 2,574,805	\$ 2,059,844	\$ 514,961	Construction / PSAC score 37
Bicycles and Pedestrians	607732	Boston Region	Multiple	FRAMINGHAM- NATICK- COCHITUATE RAIL TRAIL CONSTRUCTION INCLUDING PEDESTRIAN BRIDGE, N-03-014, OVER ROUTE 9 & F-07-033=N-03-029 OVER ROUTE 30	3	CMAQ	\$ 9,770,863	\$ 7,816,690	\$ 1,954,173	Construction / PSAC score 35.5
Bicycles and Pedestrians	607589	Pioneer Valley	Springfield	SPRINGFIELD- NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER THE CONNECTICUT RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES CONSTRUCTION OF NEW UNDERPASS S-24-044	2	CMAQ	\$ 7,062,111	\$ 5,649,689	\$ 1,412,422	Construction / PSAC score 33
Bicycles and Pedestrians subtotal ►							\$ 19,407,779	\$ 15,526,223	\$ 3,881,556	◀ 80% Federal + 20% Non-Federal

► Capacity

Capacity	Project #	MPO	Municipalities	Description	District	CMAQ	\$ -	\$ -	\$ -	
Capacity	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -	
Capacity subtotal ►							\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

► Section 3 / Planning / Adjustments / Pass-throughs

► Planning / Adjustments / Pass-throughs

Planning / Adjustments / Pass-throughs	ABPGAN	Statewide	Multiple	ABP GANS Repayment	Multiple	NHPP	\$ 62,596,967	\$ 62,596,967	\$ -	
Planning / Adjustments / Pass-throughs	ABPGAN	Statewide	Multiple	ABP GANS Repayment	Multiple	STP-BR-OFF	\$ 388,033	\$ 388,033	\$ -	
Planning / Adjustments / Pass-throughs	EWO	Statewide	Multiple	Award adjustments, change orders, etc.	Multiple	CMAQ	\$ 6,250,000	\$ 5,000,000	\$ 1,250,000	
Planning / Adjustments / Pass-throughs	EWO	Statewide	Multiple	Award adjustments, change orders, etc.	Multiple	NHPP	\$ 16,250,000	\$ 14,625,000	\$ 1,625,000	
Planning / Adjustments / Pass-throughs	EWO	Statewide	Multiple	Award adjustments, change orders, etc.	Multiple	STP	\$ 13,750,000	\$ 12,375,000	\$ 1,375,000	
Planning / Adjustments / Pass-throughs	EWO	Statewide	Multiple	Award adjustments, change orders, etc.	Multiple	STP-BR-OFF	\$ 1,250,000	\$ 1,125,000	\$ 125,000	
Planning / Adjustments / Pass-throughs	UPWP19	Statewide	Multiple	Metropolitan Planning	Multiple	PL	\$ 9,825,026	\$ 7,860,021	\$ 1,965,005	
Planning / Adjustments / Pass-throughs	UPWP19	Statewide	Multiple	Metropolitan Planning	Multiple	SPR	\$ 1,012,803	\$ 810,242	\$ 202,561	
Planning / Adjustments / Pass-throughs	SPR118	Statewide	Multiple	State Planning and Research Work Program I, (SPR I), Planning	Multiple	SPR	\$ 13,033,371	\$ 10,426,697	\$ 2,606,674	
Planning / Adjustments / Pass-throughs	SPR218	Statewide	Multiple	State Planning and Research Work Program II, (SPR II), Research	Multiple	RD	\$ 4,500,000	\$ 3,600,000	\$ 900,000	
Planning / Adjustments / Pass-throughs	RRC	Statewide	Multiple	Railroad Crossings	Multiple	RRHE	\$ 3,750,000	\$ 3,000,000	\$ 750,000	
Planning / Adjustments / Pass-throughs	RRC	Statewide	Multiple	Railroad Crossings	Multiple	RRPD	\$ 1,562,500	\$ 1,250,000	\$ 312,500	
Planning / Adjustments / Pass-throughs	SRT18	Statewide	Multiple	Recreational Trails	Multiple	REC	\$ 1,483,411	\$ 1,186,729	\$ 296,682	

Statewide Projects Listing

Other Statewide Items subtotal ► \$ 135,652,111 \$ 124,245,689 \$ 11,406,422 ◀ Funding Split Varies by Funding Source

► Section 4 / Non-Federally Aided Projects

► Non-Federally Aided Projects

Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$ -	\$ -	
Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$ -	\$ -	
Non-Federal Aid subtotal ►							\$ -	\$ -	◀ 100% Non-Federal

2018 Summary

		TIP Section 1 - TIP Section 4:	Total of All Projects ▼
Total ►	\$ 546,602,862	\$ -	\$ 546,602,862
Federal Funds ►	\$ 461,096,939	\$ -	\$ 461,096,939
Non-Federal Funds ►	\$ 85,505,922	\$ -	\$ 85,505,922

► Bridge Program / Off-System												
Bridge Program	603255	Berkshire Region	Pittsfield	PITTSFIELD- BRIDGE REPLACEMENT, P-10-049, LAKEWAY DRIVE OVER ONOTA LAKE	1	STP-BR-OFF	\$ 1,511,864	\$ 1,209,491	\$ 302,373			
Bridge Program	607534	Northern Middlesex	Tewksbury	TEWKSBURY- BRIDGE REPLACEMENT, T-03-003, MILL STREET OVER SHAWSHEEN RIVER	4	STP-BR-OFF	\$ 1,167,285	\$ 933,828	\$ 233,457			
Bridge Program	608079	Boston Region	Sharon	SHARON- BRIDGE REPLACEMENT, S-09-003 (40N), MASKWONICUT STREET OVER AMTRAK/MBTA	5	STP-BR-OFF	\$ 5,219,900	\$ 4,175,920	\$ 1,043,980			
Bridge Program	608190	Central Mass	East Brookfield	EAST BROOKFIELD- BRIDGE REPLACEMENT, E-02-001, SOUTH POND ROAD OVER SOUTH POND INLET	3	STP-BR-OFF	\$ 1,800,000	\$ 1,440,000	\$ 360,000			
Bridge Program	608243	Berkshire Region	New Marlborough	NEW MARLBOROUGH- BRIDGE REPLACEMENT, N-08-010, UMPACHENE FALLS OVER KONKAPOT RIVER	1	STP-BR-OFF	\$ 732,188	\$ 585,750	\$ 146,438			
Bridge Program	608523	Berkshire Region	Pittsfield	PITTSFIELD- BRIDGE REPLACEMENT, P-10-042, NEW ROAD OVER WEST BRANCH OF THE HOUSATONIC RIVER	1	STP-BR-OFF	\$ 1,800,000	\$ 1,440,000	\$ 360,000			
Bridge Program	608249	Pioneer Valley	Middlefield	MIDDLEFIELD- BRIDGE REPLACEMENT, M-19-010, CHESTER ROAD OVER SMART BROOK	1	STP-BR-OFF	\$ 1,306,800	\$ 1,045,440	\$ 261,360			
Bridge Program	608255	Boston Region	Stow	STOW- BRIDGE REPLACEMENT, S-29-011, BOX MILL ROAD OVER ELIZABETH BROOK	3	STP-BR-OFF	\$ 1,482,000	\$ 1,185,600	\$ 296,400			
Bridge Program	608259	Montachusett	Townsend	TOWNSEND- BRIDGE REPLACEMENT, T-07-013, WEST MEADOW ROAD OVER LOCKE BROOK	3	STP-BR-OFF	\$ 2,061,600	\$ 1,649,280	\$ 412,320			
Bridge Program	608263	Berkshire Region	Sheffield	SHEFFIELD- BRIDGE REPLACEMENT, S-10-019, BERKSHIRE SCHOOL ROAD OVER SCHENOB BROOK	1	STP-BR-OFF	\$ 1,766,836	\$ 1,413,469	\$ 353,367			
Bridge Program	608260	Montachusett	Athol	ATHOL- BRIDGE REPLACEMENT, A-15-005, WASHINGTON AVE OVER ATHOL POND OUTLET	2	STP-BR-OFF	\$ 2,265,600	\$ 1,812,480	\$ 453,120			
Bridge Program / Off-System subtotal ►							\$ 21,114,073	\$ 16,891,258	\$ 4,222,815	◄ 80% Federal + 20% Non-Federal		
► Bridge Program / On-System (NHS)												
Bridge Program	606552	Franklin Region	Northampton	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I-91 OVER HOCKANUM ROAD	2	NHPP-On	\$ 56,891,767	\$ 45,513,413	\$ 11,378,353			
Bridge Program	605306	Merrimack Valley	Haverhill	HAVERHILL- SUPERSTRUCTURE REPLACEMENT, H-12-039, I-495 (NB & SB) OVER MERRIMACK RIVER	4	NHPP-On	\$ 21,000,000	\$ 16,800,000	\$ 4,200,000	AC Year 2 of 4, Total Cost \$79,000,000		
Bridge Program	604173	Boston Region	Boston	BOSTON- BRIDGE REHABILITATION, B-16-016, NORTH WASHINGTON STREET OVER THE BOSTON INNER HARBOR	6	NHPP-On	\$ 42,000,000	\$ 33,600,000	\$ 8,400,000	AC Year 3 of 5, Total Cost \$144,066,616		
Bridge Program / On-System (NHS) subtotal ►							\$ 119,891,767	\$ 95,913,413	\$ 23,978,353	◄ Funding Split Varies by Funding Source		
► Bridge Program / On-System (Non-NHS)												
Bridge Program	608612	Montachusett	Athol	ATHOL- BRIDGE REPLACEMENT, A-15-008, CRESCENT STREET OVER MILLERS RIVER	2	NHPP-Off	\$ 7,860,160	\$ 6,288,128	\$ 1,572,032			
Bridge Program / On-System (Non-NHS) subtotal ►							\$ 7,860,160	\$ 6,288,128	\$ 1,572,032	◄ 80% Federal + 20% Non-Federal		
► Bridge Program / Systematic Maintenance												
Bridge Program	608234	Boston Region	Multiple	BOSTON- RANDOLPH- BRIDGE PRESERVATION OF 3 BRIDGES: B-16-165, R-01-005 & R-01-007	6	NHPP-On	\$ 2,303,571	\$ 1,842,857	\$ 460,714			
Bridge Program	608237	Central Mass	Multiple	WORCESTER- BOYLSTON- NORTHBOROUGH- STRUCTURAL STEEL CLEANING AND PAINTING OF OVERHEAD BRIDGES ON I-290	3	NHPP-Off	\$ 1,236,000	\$ 988,800	\$ 247,200			
Bridge Program	608257	Northern Middlesex	Lowell	LOWELL- DECK REPLACEMENT, L-15-068 (2HS), LOWELL CONNECTOR (NB) OVER INDUSTRIAL AVENUE EAST	4	NHPP-Off	\$ 1,607,143	\$ 1,285,715	\$ 321,429			
Bridge Program	608258	Pioneer Valley	Huntington	HUNTINGTON- SYSTEMATIC BRIDGE MAINTENANCE, H-27-007, ROUTE 112 OVER WEST BRANCH OF WESTFIELD RIVER	1	NHPP-Off	\$ 419,445	\$ 335,556	\$ 83,889			
Bridge Program / Systematic Maintenance subtotal ►							\$ 5,566,159	\$ 4,452,927	\$ 1,113,232	◄ Funding Split Varies by Funding Source		

► Interstate Pavement

Interstate Pavement	607560	Pioneer Valley	Multiple	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2	NHPP	\$ 11,309,875	\$ 10,178,888	\$ 1,130,988	Construction / Includes \$416,000 of stormwater improvements
Interstate Pavement	607182	Franklin Region	Multiple	DEERFIELD- BERNARDSTON- GREENFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON ROUTE I-91	2	NHPP	\$ 17,229,888	\$ 15,506,899	\$ 1,722,989	Construction
Interstate Pavement	608219	Boston Region	Multiple	READING- WAKEFIELD- INTERSTATE MAINTENANCE AND RELATED WORK ON I-95	4	NHPP	\$ 4,123,392	\$ 3,711,053	\$ 412,339	Construction
Interstate Pavement	608824	Southeastern Mass	Attleboro	ATTLEBORO- PAVEMENT PRESERVATION AND RELATED WORK ON I-95	5	NHPP	\$ 7,731,360	\$ 6,958,224	\$ 773,136	Construction
Interstate Pavement	608828	Southeastern Mass	Middleborough	MIDDLEBOROUGH- PAVEMENT PRESERVATION AND RELATED WORK ON I-495	5	NHPP	\$ 6,921,408	\$ 6,229,267	\$ 692,141	Construction
Interstate Pavement subtotal ►							\$ 47,315,923	\$ 42,584,331	\$ 4,731,592	◀ 90% Federal + 10% Non-Federal

► Non-Interstate Pavement

Non-Interstate Pavement	607474	Pioneer Valley	Multiple	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	2	NHPP	\$ 3,313,440	\$ 2,650,752	\$ 662,688	Construction
Non-Interstate Pavement	608811	Pioneer Valley	Ware	WARE- RESURFACING AND RELATED WORK ON ROUTE 9	2	NHPP	\$ 1,365,000	\$ 1,092,000	\$ 273,000	Construction
Non-Interstate Pavement	608467	Boston Region	Marlborough	MARLBOROUGH- RESURFACING AND RELATED WORK ON ROUTE 20	3	NHPP	\$ 9,940,320	\$ 7,952,256	\$ 1,988,064	Construction
Non-Interstate Pavement	608468	Boston Region	Multiple	PEABODY- DANVERS- RESURFACING AND RELATED WORK ON ROUTE 1	4	NHPP	\$ 11,597,040	\$ 9,277,632	\$ 2,319,408	Construction
Non-Interstate Pavement	608477	Statewide	Multiple	IPSWICH- ROWLEY- RESURFACING AND RELATED WORK ON ROUTE 1	4	NHPP	\$ 10,124,400	\$ 8,099,520	\$ 2,024,880	Construction
Non-Interstate Pavement	608454	Southeastern Mass	Multiple	MIDDLEBOROUGH- CARVER- RESURFACING AND RELATED WORK ON ROUTE 44 FROM MM 21.75 TO 28.80	5	NHPP	\$ 12,885,600	\$ 10,308,480	\$ 2,577,120	Construction
Non-Interstate Pavement	608222	Statewide	Multiple	BOURNE- WAREHAM- RESURFACING AND RELATED WORK ON ROUTE 25	5	NHPP	\$ 10,838,630	\$ 8,670,904	\$ 2,167,726	Construction
Non-Interstate Pavement	608223	Southeastern Mass	Fall River	FALL RIVER- RESURFACING AND RELATED WORK ON ROUTE 24 (EXCLUDES MM 3.9-4.5)	5	NHPP	\$ 8,835,840	\$ 7,068,672	\$ 1,767,168	Construction
Non-Interstate Pavement	608528	Boston Region	Multiple	WESTON- WALTHAM- RESURFACING AND RELATED WORK ON ROUTE 20	4	NHPP	\$ 12,026,560	\$ 9,621,248	\$ 2,405,312	Construction
Non-Interstate Pavement	608587	Boston Region	Dedham	DEDHAM RECONSTRUCTION & RELATED WORK OF BRIDGE STREET (ROUTE 109) AND AMES STREET	6	NHPP	\$ 5,424,717	\$ 4,339,774	\$ 1,084,943	Construction
Non-Interstate Pavement subtotal ►							\$ 86,351,547	\$ 69,081,238	\$ 17,270,309	◀ 80% Federal + 20% Non-Federal

► Roadway Improvements

Roadway Improvements	608214	Boston Region	Winchester	WINCHESTER- STORMWATER IMPROVEMENTS ALONG ROUTE 3	4	STP	\$ 232,960	\$ 186,368	\$ 46,592	Construction
Roadway Improvements	608215	Southeastern Mass	Fairhaven	FAIRHAVEN- STORMWATER IMPROVEMENTS ALONG ROUTE 240 AND ROUTE 6	5	STP	\$ 232,960	\$ 186,368	\$ 46,592	Construction
Roadway Improvements	608599	Boston Region	Multiple	CANTON- SHARON- FOXBOROUGH- NORWOOD- WALPOLE- STORMWATER IMPROVEMENTS ALONG ROUTE 1, ROUTE 1A & INTERSTATE 95	5	STP	\$ 526,235	\$ 420,988	\$ 105,247	Construction
Roadway Improvements	608602	Southeastern Mass	Multiple	FALL RIVER- SOMERSET- STORMWATER IMPROVEMENTS ALONG I-195 AND ROUTE 79	5	STP	\$ 1,500,000	\$ 1,200,000	\$ 300,000	Construction
Roadway Improvements subtotal ►							\$ 2,492,155	\$ 1,993,724	\$ 498,431	◀ 80% Federal + 20% Non-Federal

► Safety Improvements

Safety Improvements	608608	Boston Region	Braintree	BRAINTREE- HIGHWAY LIGHTING IMPROVEMENTS AT I-93/ROUTE 3 INTERCHANGE	6	STP	\$ 7,008,503	\$ 5,606,802	\$ 1,401,701	Construction / Total Project Cost \$9,697,229 / AC YR 1 of 2
Safety Improvements	608600	Pioneer Valley	Multiple	CHICOPEE- WEST SPRINGFIELD- HIGHWAY LIGHTING UPGRADE ON I-91	2	STP	\$ 3,286,141	\$ 2,628,913	\$ 657,228	Construction
Safety Improvements	608205	Boston Region	Multiple	READING TO LYNNFIELD- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF I-95 (SR 128)	4	HSIP	\$ 4,513,288	\$ 4,061,959	\$ 451,329	Construction
Safety Improvements	608206	Boston Region	Multiple	CHELSEA TO DANVERS- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 1	4	HSIP	\$ 7,195,084	\$ 6,475,576	\$ 719,508	Construction
Safety Improvements	608571	Cape Cod	Multiple	BOURNE TO FALMOUTH- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE 28	5	HSIP	\$ 433,353	\$ 390,018	\$ 43,335	Construction
Safety Improvements	608759	Southeastern Mass	Swansea	SWANSEA- TRAFFIC SIGNAL AND SAFETY IMPROVEMENTS AT THREE INTERSECTIONS ON ROUTE 6	5	HSIP	\$ 4,680,000	\$ 4,212,000	\$ 468,000	Construction
Safety Improvements	607736	Pioneer Valley	Chicopee	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO ABBEY STREET	2	HSIP	\$ 6,001,387	\$ 5,401,248	\$ 600,139	Construction
Safety Improvements	608582	Statewide	Multiple	STATEWIDE- VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED IN CONSULTATION WITH FHWA IN 2019	Multiple	HSIP	\$ 2,437,799	\$ 2,194,019	\$ 243,780	Construction / Total Project Cost \$4,600,000 / Safety Improvements Program and Intersection Improvements Program

► ADA Retrofits											
ADA Retrofits	608225	Statewide	Multiple	DISTRICT 1 - ADA RETROFITS AT VARIOUS LOCATIONS	1	STP	\$ 697,095	\$ 557,676	\$ 139,419	Construction	
ADA Retrofits	608226	Statewide	Multiple	DISTRICT 2 - ADA RETROFITS AT VARIOUS LOCATIONS	2	STP	\$ 977,305	\$ 781,844	\$ 195,461	Construction	
ADA Retrofits	608796	Statewide	Multiple	DISTRICT 4 - ADA RETROFITS AT VARIOUS LOCATIONS	4	STP	\$ 1,303,973	\$ 1,043,178	\$ 260,795	Construction	
ADA Retrofits subtotal ►							\$ 2,978,373	\$ 2,382,698	\$ 595,675	◄ 80% Federal + 20% Non-Federal	

► Intersection Improvements											
Intersection Improvements	608652	Statewide	Multiple	ADAPTIVE SIGNAL CONTROLS IN DISTRICT 5	5	CMAQ	\$ 500,000	\$ 400,000	\$ 100,000	Construction	
Intersection Improvements	603251	Central Mass	Worcester	WORCESTER- SIGNAL & INTERSECTION IMPROVEMENTS @ HOLDEN STREET, DRUMMOND AVENUE & SHORE DRIVE, INCLUDES CULVERT EXTENSION OF W-44-122, SHORE DRIVE OVER (UNNAMED) STREAM	3	CMAQ	\$ 2,005,070	\$ 1,604,056	\$ 401,014	Construction / Total Cost = \$2,902,792 w/ \$1,013,833 in Central Mass MPO funding / PSAC score 44	
Intersection Improvements	608086	Old Colony	Avon	AVON- INTERSECTION IMPROVEMENTS AT HARRISON BOULEVARD AND POND STREET	5	CMAQ	\$ 3,888,000	\$ 3,110,400	\$ 777,600	Construction / PSAC score 53	
Intersection Improvements	606272	Cape Cod	Barnstable	BARNSTABLE- INTERSECTION IMPROVEMENTS AT IYANOUGH ROAD (ROUTE 28) AND YARMOUTH ROAD	5	CMAQ	\$ 540,800	\$ 432,640	\$ 108,160	Construction / Total Cost = \$9,584,447 w/ \$9,043,647 in Cape Cod MPO funding / PSAC score 67	
Intersection Improvements	607756	Berkshire Region	Great Barrington	GREAT BARRINGTON- INTERSECTION & SIGNAL IMPROVEMENTS ON US 7 (SOUTH MAIN STREET) AT SR 23 & SR 41 (MAPLE AVENUE)	1	HSIP	\$ 974,815	\$ 877,334	\$ 97,482	Construction / PSAC score 51.5	
Intersection Improvements	607759	Boston Region	Boston	BOSTON- INTERSECTION & SIGNAL IMPROVEMENTS AT THE VFW PARKWAY & SPRING STREET	6	HSIP	\$ 974,815	\$ 877,334	\$ 97,482	Construction / PSAC score 39	
Intersection Improvements	607763	Boston Region	Milton	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	\$ 1,188,000	\$ 1,069,200	\$ 118,800	Construction / PSAC score 44	
Intersection Improvements	608052	Montachusett	Norwood	NORWOOD- INTERSECTION & SIGNAL IMPROVEMENTS AT US 1 (PROVIDENCE HIGHWAY) & MORSE STREET	5	HSIP	\$ 974,815	\$ 877,334	\$ 97,482	Construction / PSAC score 50	
Intersection Improvements	608053	Southeastern Mass	Mansfield	MANSFIELD- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 140 (COMMERCIAL STREET) & SR 106 (CHAUNCEY STREET)	5	HSIP	\$ 974,815	\$ 877,334	\$ 97,482	Construction / PSAC score 55	
Intersection Improvements	607748	Boston Region	Acton	ACTON- INTERSECTION & SIGNAL IMPROVEMENTS ON SR 2 & SR 111 (MASSACHUSETTS AVENUE) AT PIPER ROAD & TAYLOR ROAD	3	HSIP	\$ 1,400,000	\$ 1,260,000	\$ 140,000	Construction / PSAC score 58	
Intersection Improvements	608754	Berkshire Region	Dalton	DALTON- INTERSECTION IMPROVEMENTS AT ROUTES 8 & 9 (MAIN ST) AT SOUTH ST & WEST HOUSATONIC ST	1	HSIP	\$ 1,500,000	\$ 1,350,000	\$ 150,000	Construction	
Intersection Improvements	608757	Central Mass	Worcester	WORCESTER- INTERSECTION IMPROVEMENTS AT WEST MOUNTAIN STREET AT I-190 FRONTAGE ROAD & BROOKS STREET EXTENSION	3	HSIP	\$ 1,500,000	\$ 1,350,000	\$ 150,000	Construction / PSAC score 48	
Intersection Improvements	608755	Boston Region	Boston	BOSTON- INTERSECTION IMPROVEMENTS AT MORTON STREET AND HARVARD STREET	6	HSIP	\$ 1,500,000	\$ 1,350,000	\$ 150,000	Construction	
Intersection Improvements	608582	Statewide	Multiple	STATEWIDE-VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED IN CONSULTATION WITH FHWA IN 2019	Multiple	HSIP	\$ 2,162,203	\$ 1,945,983	\$ 216,220	Construction / Total Project Cost \$4,600,000 / Safety Improvements Program and Intersection Improvements Program	
Intersection Improvements	607761	Boston Region	Swampscott	SWAMPSCOTT- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 1A (PARADISE ROAD) AT SWAMPSCOTT MALL	4	HSIP	\$ 2,000,000	\$ 1,800,000	\$ 200,000	Construction / PSAC score 50	
Intersection Improvements subtotal ►							\$ 22,083,333	\$ 19,181,613	\$ 2,901,720	◄ Funding Split Varies by Funding Source	

► Intelligent Transportation Systems											
Intelligent Transportation Systems	607487	Statewide	Multiple	DISTRICTS 3 AND 5 - EXPANSION OF ITS EQUIPMENT (CCTV CAMERAS, TRAFFIC SENSORS, AND VMS) FOR HIGHWAY OPERATIONS	Multiple	NHPP	\$ 1,124,000	\$ 899,200	\$ 224,800	Construction / Total Project Cost = \$6,250,000 / AC YR 2 of 2	
Intelligent Transportation Systems	608141	Statewide	Multiple	STATEWIDE - EXPANSION OF ITS EQUIPMENT (CCTV CAMERAS, TRAFFIC SENSORS, AND VMS) FOR HIGHWAY OPERATIONS	Multiple	NHPP	\$ 11,126,000	\$ 8,900,800	\$ 2,225,200	Construction	
Intelligent Transportation Systems	608838	Statewide	Multiple	STATEWIDE - EXPANSION OF HIGHWAY OPERATIONS CENTER INCIDENT DETECTION SYSTEMS	Multiple	CMAQ	\$ 1,500,000	\$ 1,200,000	\$ 300,000	Construction	
Intelligent Transportation System subtotal ►							\$ 13,750,000	\$ 11,000,000	\$ 2,750,000	◄ 80% Federal + 20% Non-Federal	

► Roadway Reconstruction											
Roadway Reconstruction	607411	Martha's Vineyard	Tisbury	TISBURY- BIKE & PEDESTRIAN IMPROVEMENTS ALONG BEACH ROAD, FROM THE TERMINATION OF THE EXISTING SHARED USE PATH WESTERLY TO THE FIVE CORNERS INTERSECTION	5	CMAQ	\$ 3,179,390	\$ 2,543,512	\$ 635,878	Construction / Total Project Cost = \$4,388,393 w/ \$1,384,538 of Martha's Vineyard regional funding / AC YR 1 of 2 / PSAC Score 33.5	
Roadway Reconstruction	607941	Old Colony	East Bridgewater	EAST BRIDGEWATER- RESURFACING AND SIDEWALK CONSTRUCTION ON BEDFORD STREET (ROUTE 18), FROM WHITMAN STREET (ROUTE 106) TO CENTRAL STREET	5	CMAQ	\$ 1,891,000	\$ 1,512,800	\$ 378,200	Construction / Total Project Cost = \$4,992,067 w/ \$3,101,067 of Old Colony regional funding / PSAC score 47.25	
Roadway Reconstruction	608088	Old Colony	Brockton	BROCKTON- CORRIDOR IMPROVEMENTS ON ROUTE 123 (BELMONT STREET), FROM ANGUS BEATON DRIVE TO WEST STREET	5	CMAQ	\$ 592,300	\$ 473,840	\$ 118,460	Construction / Total Project Cost = \$4,609,131 w/ \$4,016,831 of Old Colony regional funding / PSAC score 65	
Roadway Reconstruction	606555	Pioneer Valley	Northampton	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	2	CMAQ	\$ 2,874,895	\$ 2,299,916	\$ 574,979	Construction / PSAC score 36.5	
Roadway Reconstruction	608790	Pioneer Valley	Holyoke	HOLYOKE- IMPROVEMENTS AT KELLY COMMUNITY SCHOOL (SRTS)	2	TAP	\$ 926,875	\$ 741,500	\$ 185,375	Construction / TAP project proponent is Holyoke	
Roadway Reconstruction	608792	Merrimack Valley	Newburyport	NEWBURYPORT- IMPROVEMENTS AT NOCK MIDDLE SCHOOL & MOLIN UPPER ELEMENTARY SCHOOL (SRTS)	4	TAP	\$ 1,593,600	\$ 1,274,880	\$ 318,720	Construction / TAP project proponent is Newburyport	
Roadway Reconstruction subtotal ►							\$ 11,058,060	\$ 8,846,448	\$ 2,211,612	◀ 80% Federal + 20% Non-Federal	
► Section 2C / State Prioritized Expansion Projects											
► Bicycles and Pedestrians											
Bicycles and Pedestrians	608193	Montachusett	Multiple	FITCHBURG- LEOMINSTER- RAIL TRAIL CONSTRUCTION (TWIN CITIES RAIL TRAIL)	3	CMAQ	\$ 11,178,000	\$ 8,942,400	\$ 2,235,600	Construction / PSAC score 45	
Bicycles and Pedestrians	607888	Boston Region	Multiple	BOSTON- BROOKLINE- MULTI-USE PATH CONSTRUCTION ON NEW FENWAY	6	CMAQ	\$ 1,770,722	\$ 1,416,578	\$ 354,144	Construction / PSAC score 41	
Bicycles and Pedestrians	606891	Berkshire Region	Multiple	LANESBOROUGH- PITTSFIELD- ASHUWILLTICOOK RAIL TRAIL EXTENSION TO ACTON- CONCORD- BRUCE FREEMAN RAIL TRAIL CONSTRUCTION, INCLUDES REPLACING BRIDGE C-19-037, RAIL TRAIL OVER NASHOBA BROOK, NEW BRIDGE C-19-039, RAIL TRAIL OVER ROUTE 2 & NEW CULVERT C-19-040, ROUTE 2 OVER WILDLIFE CROSSING (PHASE II-B)	1	CMAQ	\$ 2,251,210	\$ 1,800,968	\$ 450,242	Construction / PSAC score 35	
Bicycles and Pedestrians	606223	Boston Region	Multiple	ACTON- CONCORD- BRUCE FREEMAN RAIL TRAIL CONSTRUCTION, INCLUDES REPLACING BRIDGE C-19-037, RAIL TRAIL OVER NASHOBA BROOK, NEW BRIDGE C-19-039, RAIL TRAIL OVER ROUTE 2 & NEW CULVERT C-19-040, ROUTE 2 OVER WILDLIFE CROSSING (PHASE II-B)	4	CMAQ	\$ 9,495,746	\$ 7,596,597	\$ 1,899,149	Construction / PSAC score 31.5	
Bicycles and Pedestrians subtotal ►							\$ 24,695,678	\$ 19,756,542	\$ 4,939,136	◀ 80% Federal + 20% Non-Federal	
► Capacity											
Capacity	Project #	MPO	Municipalities	Description	District	CMAQ	\$ -	\$ -	\$ -		
Capacity	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -		
Capacity subtotal ►							\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source	
► Section 3 / Planning / Adjustments / Pass-throughs											
► Planning / Adjustments / Pass-throughs											
Planning / Adjustments / Pass-throughs	ABPGAN	Statewide	Multiple	ABP GANS Repayment	Multiple	NHPP	\$ 65,615,392	\$ 65,615,392	\$ -		
Planning / Adjustments / Pass-throughs	ABPGAN	Statewide	Multiple	ABP GANS Repayment	Multiple	STP-BR-OFF	\$ 399,608	\$ 399,608	\$ -		
Planning / Adjustments / Pass-throughs	EWO	Statewide	Multiple	Award adjustments, change orders, etc.	Multiple	STP	\$ 31,250,000	\$ 28,125,000	\$ 3,125,000		
Planning / Adjustments / Pass-throughs	MRIDES	Statewide	Multiple	MassRides: Travel Demand Management	Multiple	CMAQ	\$ 3,125,000	\$ 2,500,000	\$ 625,000		

Planning / Adjustments / Pass-throughs	MRIDES	Statewide	Multiple	MassRides: SRTS Education	Multiple	TAP	\$ 200,000	\$ 160,000	\$ 40,000	
Planning / Adjustments / Pass-throughs	UPWP20	Statewide	Multiple	Metropolitan Planning	Multiple	PL	\$ 9,825,026	\$ 7,860,021	\$ 1,965,005	
Planning / Adjustments / Pass-throughs	UPWP20	Statewide	Multiple	Metropolitan Planning	Multiple	SPR	\$ 1,012,803	\$ 810,242	\$ 202,561	
Planning / Adjustments / Pass-throughs	SPR119	Statewide	Multiple	State Planning and Research Work Program I, (SPR I), Planning	Multiple	RD	\$ 13,033,371	\$ 10,426,697	\$ 2,606,674	
Planning / Adjustments / Pass-throughs	SPR219	Statewide	Multiple	State Planning and Research Work Program II, (SPR II), Research	Multiple	SPR	\$ 4,500,000	\$ 3,600,000	\$ 900,000	
Planning / Adjustments / Pass-throughs	RRC	Statewide	Multiple	Railroad Crossings	Multiple	RRHE	\$ 2,500,000	\$ 2,000,000	\$ 500,000	
Planning / Adjustments / Pass-throughs	RRC	Statewide	Multiple	Railroad Crossings	Multiple	RRPD	\$ 2,250,000	\$ 1,800,000	\$ 450,000	
Planning / Adjustments / Pass-throughs	SRT19	Statewide	Multiple	Recreational Trails	Multiple	REC	\$ 1,483,411	\$ 1,186,729	\$ 296,682	
Other Statewide Items subtotal ▶							\$ 135,194,611	\$ 124,483,689	\$ 10,710,922	◀ Funding Split Varies by Funding Source

▶ Section 4 / Non-Federally Aided Projects

▶ Non-Federally Aided Projects

Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$ -	\$ -	\$ -
Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$ -	\$ -	\$ -
Non-Federal Aid subtotal ▶							\$ -	\$ -	◀ 100% Non-Federal

2019 Summary

		TIP Section 1 - 3: ▼	TIP Section 4: ▼	Total of All Projects ▼	
Total ▶	\$ 535,907,394	\$ -	\$ 535,907,394	◀ Total Spending in Region	
Federal Funds ▶	\$ 453,826,545	\$ -	\$ 453,826,545	◀ Total Federal Spending in Region	
Non-Federal Funds ▶	\$ 82,080,849	\$ -	\$ 82,080,849	◀ Total Non-Federal Spending in Region	

► Bridge Program / Inspections												
Bridge Program	BR120	Statewide	Multiple	Bridge Inspection	Multiple	NHPP	\$ 13,000,000	\$ 10,400,000	\$ 2,600,000	2021-2022 NBIS Program		
Bridge Program	BR120	Statewide	Multiple	Bridge Inspection	Multiple	STP-BR-OFF	\$ 4,900,000	\$ 3,920,000	\$ 980,000	2021-2022 NBIS Program		
Bridge Program / Inspections subtotal ►							\$ 17,900,000	\$ 14,320,000	\$ 3,580,000	◄ Funding Split Varies by Funding Source		
► Bridge Program / Off-System												
Bridge Program	608642	Berkshire Region	New Marlborough	NEW MARLBOROUGH- BRIDGE REPLACEMENT, N-08-001, NORFOLK ROAD OVER UMPACHENE BROOK	1	STP-BR-OFF	\$ 4,876,300	\$ 3,901,040	\$ 975,260			
Bridge Program	608643	Franklin Region	Charlemont	CHARLEMONT- BRIDGE REPLACEMENT, C-05-037, WEST OXBOW ROAD OVER WILDER BROOK	1	STP-BR-OFF	\$ 2,706,000	\$ 2,164,800	\$ 541,200			
Bridge Program	608644	Franklin Region	Charlemont	CHARLEMONT- BRIDGE REPLACEMENT, C-05-008, TOWER ROAD OVER CHICKLEY RIVER	1	STP-BR-OFF	\$ 2,692,000	\$ 2,153,600	\$ 538,400			
Bridge Program	608645	Berkshire Region	New Marlborough	NEW MARLBOROUGH- BRIDGE REPLACEMENT, N-08-006, CAMPBELL FALLS ROAD OVER WHITING RIVER	1	STP-BR-OFF	\$ 2,934,400	\$ 2,347,520	\$ 586,880			
Bridge Program	608646	Berkshire Region	Tyringham	TYRINGHAM- BRIDGE REPLACEMENT, T-10-007, MONTEREY ROAD OVER HOP BROOK	1	STP-BR-OFF	\$ 1,542,000	\$ 1,233,600	\$ 308,400			
Bridge Program	608631	Pioneer Valley	Westhampton	WESTHAMPTON- BRIDGE REPLACEMENT, W-27-005, KINGS HIGHWAY OVER N BRANCH MANHAN RIVER	2	STP-BR-OFF	\$ 3,072,000	\$ 2,457,600	\$ 614,400			
Bridge Program	608632	Franklin Region	Leverett	LEVERETT- BRIDGE REPLACEMENT, L-09-009, OLD COKE KILN ROAD OVER SAWMILL RIVER	2	STP-BR-OFF	\$ 2,256,000	\$ 1,804,800	\$ 451,200			
Bridge Program	608633	Central Mass	West Brookfield	WEST BROOKFIELD- BRIDGE REPLACEMENT, W-19-009, FOSTER HILL ROAD OVER COYS BROOK	2	STP-BR-OFF	\$ 1,815,000	\$ 1,452,000	\$ 363,000			
Bridge Program	608638	Central Mass	Douglas	DOUGLAS- BRIDGE RECONSTRUCTION/REHABILITATION, D-09-004, CARRYING MANCHAUG STREET OVER THE MUMFORD RIVER	3	STP-BR-OFF	\$ 4,707,584	\$ 3,766,067	\$ 941,517			
Bridge Program	608639	Montachusett	Westminster	WESTMINSTER- BRIDGE REPLACEMENT, W-28-010, CARRYING WHITMANVILLE ROAD OVER THE WHITMAN RIVER	3	STP-BR-OFF	\$ 2,492,200	\$ 1,993,760	\$ 498,440			
Bridge Program	608640	Central Mass	Sutton	SUTTON- BRIDGE RECONSTRUCTION/REHABILITATION, S-33-004, CARRYING DEPOT STREET OVER THE BLACKSTONE RIVER	3	STP-BR-OFF	\$ 3,360,000	\$ 2,688,000	\$ 672,000			
Bridge Program / Off-System subtotal ►							\$ 32,453,482	\$ 25,962,786	\$ 6,490,696	◄ 80% Federal + 20% Non-Federal		
► Bridge Program / On-System (NHS)												
Bridge Program	605342	Boston Region	Stow	STOW- BRIDGE REPLACEMENT, S-29-001, (ST 62) GLEASONDALE ROAD OVER THE ASSABET RIVER	3	NHPP-On	\$ 6,706,560	\$ 5,365,248	\$ 1,341,312			
Bridge Program	608460	Pioneer Valley	Hadley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER	2	NHPP-On	\$ 5,857,180	\$ 4,685,744	\$ 1,171,436			
Bridge Program	400103	Pioneer Valley	Westfield	WESTFIELD- BRIDGE REPLACEMENT, W-25-006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER	2	NHPP-On	\$ 13,276,980	\$ 10,621,584	\$ 2,655,396			
Bridge Program	606309	Franklin Region	Orange	ORANGE- BRIDGE REPLACEMENT, O-03-021, ROUTE 2 OVER ROUTE 202	2	NHPP-On	\$ 16,471,488	\$ 13,177,190	\$ 3,294,298			
Bridge Program	608614	Boston Region	Boston	BOSTON- BRIDGE PRESERVATION, B-16-179, AUSTIN STREET OVER I-93 RAMPS, MBTA COMMUTER RAIL AND ORANGE LINE	6	NHPP-On	\$ 20,606,400	\$ 16,485,120	\$ 4,121,280			
Bridge Program	605306	Merrimack Valley	Haverhill	HAVERHILL- SUPERSTRUCTURE REPLACEMENT, H-12-039, I-495 (NB & SB) OVER MERRIMACK RIVER	4	NHPP-On	\$ 21,000,000	\$ 16,800,000	\$ 4,200,000	AC Year 3 of 4, Total Cost \$79,000,000		
Bridge Program	604173	Boston Region	Boston	BOSTON- BRIDGE REHABILITATION, B-16-016, NORTH WASHINGTON STREET OVER THE BOSTON INNER HARBOR	6	NHPP-On	\$ 35,000,000	\$ 28,000,000	\$ 7,000,000	AC Year 4 of 5, Total Cost \$144,066,616		
Bridge Program / On-System (NHS) subtotal ►							\$ 118,918,608	\$ 95,134,886	\$ 23,783,722	◄ Funding Split Varies by Funding Source		
► Bridge Program / On-System (Non-NHS)												
Bridge Program	604189	Franklin Region	Bernardston	BERNARDSTON- BRIDGE REPLACEMENT, B-10-004, U.S. ROUTE 5 (BRATTLEBORO ROAD) OVER SHATTUCK BROOK	2	NHPP-Off	\$ 3,121,200	\$ 2,496,960	\$ 624,240			
Bridge Program	608009	Boston Region	Boxborough	BOXBOROUGH- BRIDGE REPLACEMENT, B-18-002, ROUTE 111 OVER I-495	3	NHPP-Off	\$ 9,147,500	\$ 7,318,000	\$ 1,829,500	AC Year 1 of 2, Total Cost \$14,295,000		
Bridge Program / On-System (Non-NHS) subtotal ►							\$ 12,268,700	\$ 9,814,960	\$ 2,453,740	◄ 80% Federal + 20% Non-Federal		

► Bridge Program / Systematic Maintenance											
Bridge Program	608589	Central Mass	Worcester	WORCESTER- CLEAN AND PAINT STRUCTURAL STEEL ON W-44-082	3	NHPP-On	\$ 1,190,179	\$ 952,143	\$ 238,036		
Bridge Program	608648	Berkshire Region	Williamstown	WILLIAMSTOWN- DECK PRESERVATION, W-37-015, ROUTE 2 OVER THE GREEN RIVER	1	NHPP-Off	\$ 396,429	\$ 317,143	\$ 79,286		
Bridge Program	608596	Boston Region	Essex	ESSEX- SUPERSTRUCTURE REPLACEMENT, E-11-001 (2TV), ROUTE 133/MAIN STREET OVER ESSEX RIVER	4	NHPP-Off	\$ 2,400,000	\$ 1,920,000	\$ 480,000		
Bridge Program / Systematic Maintenance subtotal ►							\$ 3,986,608	\$ 3,189,286	\$ 797,322	◄ Funding Split Varies by Funding Source	
► Interstate Pavement											
Interstate Pavement	608208	Boston Region	Multiple	QUINCY- MILTON- BOSTON- INTERSTATE MAINTENANCE & RELATED WORK ON I-93	6	NHPP	\$ 24,264,576	\$ 21,838,118	\$ 2,426,458	Construction / Includes \$540,000 of stormwater improvements	
Interstate Pavement	608203	Statewide	Multiple	MARLBORO- HUDSON- BERLIN- INTERSTATE MAINTENANCE & RELATED WORK ON I-495	3	NHPP	\$ 14,375,232	\$ 12,937,709	\$ 1,437,523	Construction	
Interstate Pavement	608825	Southeastern Mass	Middleborough	MIDDLEBOROUGH- PAVEMENT PRESERVATION AND RELATED WORK ON I-495	5	NHPP	\$ 3,058,560	\$ 2,752,704	\$ 305,856	Construction	
Interstate Pavement subtotal ►							\$ 41,698,368	\$ 37,528,531	\$ 4,169,837	◄ 90% Federal + 10% Non-Federal	
► Non-Interstate Pavement											
Non-Interstate Pavement	608486	Berkshire Region	Williamstown	WILLIAMSTOWN- RESURFACING AND RELATED WORK ON ROUTE 43	1	NHPP	\$ 2,982,096	\$ 2,385,677	\$ 596,419	Construction	
Non-Interstate Pavement	608473	Pioneer Valley	South Hadley	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116	2	NHPP	\$ 2,255,688	\$ 1,804,550	\$ 451,138	Construction	
Non-Interstate Pavement	608475	Statewide	Multiple	LANCASTER- HARVARD- LITTLETON- RESURFACING AND RELATED WORK ON ROUTE 2	3	NHPP	\$ 18,160,200	\$ 14,528,160	\$ 3,632,040	Construction	
Non-Interstate Pavement	608469	Statewide	Multiple	BOURNE- PLYMOUTH- PAVEMENT PRESERVATION AND RELATED WORK ON ROUTE 3	5	NHPP	\$ 10,912,262	\$ 8,729,810	\$ 2,182,452	Construction	
Non-Interstate Pavement	608479	Southeastern Mass	Multiple	ATTLEBORO- NORTH ATTLEBORO- RESURFACING AND RELATED WORK ON ROUTE 1	5	NHPP	\$ 15,805,109	\$ 12,644,087	\$ 3,161,022	Construction	
Non-Interstate Pavement	608480	Boston Region	Multiple	FOXBOROUGH- WALPOLE- RESURFACING AND RELATED WORK ON ROUTE 1	5	NHPP	\$ 8,063,129	\$ 6,450,503	\$ 1,612,626	Construction	
Non-Interstate Pavement	608484	Boston Region	Multiple	CANTON- MILTON- RESURFACING AND RELATED WORK ON ROUTE 138	6	NHPP	\$ 15,343,776	\$ 12,275,021	\$ 3,068,755	Construction	
Non-Interstate Pavement	608482	Boston Region	Multiple	CAMBRIDGE- SOMERVILLE- RESURFACING AND RELATED WORK ON ROUTE 28	6	NHPP	\$ 7,761,096	\$ 6,208,877	\$ 1,552,219	Construction	
Non-Interstate Pavement subtotal ►							\$ 81,283,356	\$ 65,026,685	\$ 16,256,671	◄ 80% Federal + 20% Non-Federal	
► Roadway Improvements											
Roadway Improvements	608057	Central Mass	Worcester	WORCESTER- STORMWATER IMPROVEMENTS ALONG I-290 AND 122A	3	STP	\$ 3,207,816	\$ 2,566,253	\$ 641,563	Construction	
Roadway Improvements	608598	Cape Cod	Orleans	ORLEANS- STORMWATER IMPROVEMENTS ALONG ROUTE 28	5	STP	\$ 574,938	\$ 459,950	\$ 114,988	Construction	
Roadway Improvements subtotal ►							\$ 3,782,754	\$ 3,026,203	\$ 756,551	◄ 80% Federal + 20% Non-Federal	
► Safety Improvements											
Safety Improvements	608608	Boston Region	Braintree	BRAINTREE- HIGHWAY LIGHTING IMPROVEMENTS AT I-93/ROUTE 3 INTERCHANGE	6	STP	\$ 2,688,726	\$ 2,150,981	\$ 537,745	Construction / Total Project Cost \$9,697,229 / AC YR 2 of 2	
Safety Improvements	608611	Boston Region	Multiple	CANTON- MILTON- RANDOLPH- REPLACEMENT AND REHABILITATION OF THE HIGHWAY LIGHTING SYSTEM AT THE ROUTE 24/ROUTE 1/I-93 INTERCHANGE	6	HSIP	\$ 9,434,070	\$ 8,490,663	\$ 943,407	Construction	
Safety Improvements	608572	Southeastern Mass	Multiple	DARTMOUTH TO RAYNHAM- GUIDE AND TRAFFIC SIGN REPLACEMENT ON SECTIONS OF I-195 AND I-495	5	HSIP	\$ 8,139,312	\$ 7,325,381	\$ 813,931	Construction	
Safety Improvements	608573	Central Mass	Multiple	UXBRIDGE TO WORCESTER- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE 146	3	HSIP	\$ 1,213,380	\$ 1,092,042	\$ 121,338	Construction	
Safety Improvements	608575	Pioneer Valley	Multiple	CHICOPEE TO HOLYOKE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON I-391	2	HSIP	\$ 542,872	\$ 488,585	\$ 54,287	Construction	
Safety Improvements subtotal ►							\$ 22,018,360	\$ 19,547,651	\$ 2,470,709	◄ Funding Split Varies by Funding Source	

► Section 2B / State Prioritized Modernization Projects

► ADA Retrofits

ADA Retrofits	Project #	MPO	Municipalities	Description	District	STP	\$	\$	\$	
ADA Retrofits	Project #	MPO	Municipalities	Description	District	STP	\$ -	\$ -	\$ -	
ADA Retrofits subtotal ►							\$ -	\$ -	\$ -	◄ 80% Federal + 20% Non-Federal

► Intersection Improvements

Intersection Improvements	606011	Franklin Region	Multiple	DEERFIELD- WHATELY- RESURFACING & RELATED WORK ON ROUTES 5 & 10, FROM OLD STATE ROAD TO CONWAY ROAD (1.1 MILES)	2	HSIP	\$ 1,500,000	\$ 1,350,000	\$ 150,000	Construction / PSAC score 51
Intersection Improvements	608560	Pioneer Valley	Springfield	SPRINGFIELD- IMPROVEMENTS ON ST. JAMES AVENUE AT ST. JAMES BOULEVARD AND CAREW STREET AT TAPLEY STREET	2	HSIP	\$ 2,688,000	\$ 2,419,200	\$ 268,800	Construction / PSAC score 75.5
Intersection Improvements	608561	Montachusett	Leominster	LEOMINSTER- IMPROVEMENTS AT ROUTE 12 (NORTH MAIN STREET) AT HAMILTON STREET; ROUTE 12 (NORTH MAIN STREET) AT NELSON STREET	3	HSIP	\$ 2,688,000	\$ 2,419,200	\$ 268,800	Construction / PSAC score 53.5
Intersection Improvements	608567	Boston Region	Peabody	PEABODY- IMPROVEMENTS AT ROUTE 114 AT SYLVAN STREET, CROSS STREET, NORTHSHORE MALL, LORIS ROAD, ROUTE 128 INTERCHANGE AND ESQUIRE DRIVE	4	HSIP	\$ 2,688,000	\$ 2,419,200	\$ 268,800	Construction / PSAC score 61.5
Intersection Improvements	608563	Southeastern Mass	Swansea	SWANSEA- IMPROVEMENTS ON ROUTE 6 (GRAND ARMY OF THE REPUBLIC HIGHWAY) AT GARDNERS NECK ROAD	5	HSIP	\$ 2,688,000	\$ 2,419,200	\$ 268,800	Construction
Intersection Improvements	608564	Boston Region	Watertown	WATERTOWN- INTERSECTION IMPROVEMENTS AT ROUTE 16 AND GALEN STREET	6	HSIP	\$ 2,688,000	\$ 2,419,200	\$ 268,800	Construction / PSAC score 56
Intersection Improvements	606450	Pioneer Valley	Holyoke	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	CMAQ	\$ 4,573,306	\$ 3,658,645	\$ 914,661	Construction / PSAC score 60.5
Intersection Improvements subtotal ►							\$ 19,513,306	\$ 17,104,645	\$ 2,408,661	◄ Funding Split Varies by Funding Source

► Intelligent Transportation Systems

Intelligent Transportation Systems	608360	Statewide	Multiple	STATEWIDE INTELLIGENT TRANSPORTATION SYSTEMS, YEAR 2020	Multiple	NHPP	\$ 12,500,000	\$ 10,000,000	\$ 2,500,000	
Intelligent Transportation Systems	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -	
Intelligent Transportation System subtotal ►							\$ 12,500,000	\$ 10,000,000	\$ 2,500,000	◄ 80% Federal + 20% Non-Federal

► Roadway Reconstruction

Roadway Reconstruction	608835	Boston Region	Medford	MEDFORD- IMPROVEMENTS AT BROOKS ELEMENTARY SCHOOL (SRTS)	4	TAP	\$ 1,200,000	\$ 960,000	\$ 240,000	Construction / TAP project proponent is Medford
Roadway Reconstruction	608743	Boston Region	Salem	SALEM- IMPROVEMENTS AT BATES ELEMENTARY SCHOOL (SRTS)	4	TAP	\$ 937,500	\$ 750,000	\$ 187,500	Construction / TAP project proponent is Salem
Roadway Reconstruction	608829	Boston Region	Stoughton	STOUGHTON- IMPROVEMENTS AT WEST ELEMENTARY SCHOOL (SRTS)	5	TAP	\$ 2,226,600	\$ 1,781,280	\$ 445,320	Construction / TAP project proponent is Stoughton
Roadway Reconstruction	608791	Boston Region	Winchester	WINCHESTER- IMPROVEMENTS AT VINSON-OWEN ELEMENTARY SCHOOL (SRTS)	4	TAP	\$ 1,666,200	\$ 1,332,960	\$ 333,240	Construction / TAP project proponent is Winchester
Roadway Reconstruction	607977	Boston Region	Multiple	HOPKINTON- WESTBOROUGH- RECONSTRUCTION OF I-90/I-495 INTERCHANGE	3	NHPP	\$ 1,000,000	\$ 800,000	\$ 200,000	Construction / Total Project Cost = \$270,000,000 / AC YR 1 of 6 / PSAC score 49
Roadway Reconstruction	602659	Central Mass	Multiple	CHARLTON- OXFORD- RECONSTRUCTION ON ROUTE 20, FROM RICHARDSON'S CORNER EASTERLY TO ROUTE 12, INCLUDES REHAB OF C-06-023 & REPLACEMENT OF O-06-002	3	NHPP	\$ 1,000,000	\$ 800,000	\$ 200,000	Construction / Total Project Cost = \$57,426,624 w/ \$11,386,727 of Central Mass regional funding in 2020 and 2021 / AC YR 1 of 4 / PSAC score 49.5
Roadway Reconstruction	608049	Southeastern Mass	Fall River	FALL RIVER- CORRIDOR IMPROVEMENTS ON ROUTE 79/DAVOL STREET	5	NHPP	\$ 1,000,000	\$ 800,000	\$ 200,000	Construction / Total Project Cost = \$81,290,000 / AC YR 1 of 5 / PSAC score 50.5
Roadway Reconstruction subtotal ►							\$ 9,030,300	\$ 7,224,240	\$ 1,806,060	◄ 80% Federal + 20% Non-Federal

► Section 2C / State Prioritized Expansion Projects

► Bicycles and Pedestrians

Project #	MPO	Municipalities	Description	District	CMAQ	Funding	Funding	Funding	Notes
603783	Pioneer Valley	Westfield	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25-015, W-25-016, W-25-017, W-25-018 & W-25-019	2	CMAQ	\$ 6,784,160	\$ 5,427,328	\$ 1,356,832	Construction / PSAC score 39.5
607885	Northern Middlesex	Lowell	LOWELL- PEDESTRIAN WALKWAY & BICYCLE CONNECTION AT PAWTUCKET FALLS OVERLOOK, FROM VANDENBERG ESPLANADE TO SCHOOL STREET	4	CMAQ	\$ 2,410,560	\$ 1,928,448	\$ 482,112	Construction / PSAC score 36
607254	Berkshire Region	Multiple	NORTH ADAMS- WILLIAMSTOWN- MOHAWK BICYCLE/PEDESTRIAN TRAIL	1	CMAQ	\$ 5,094,835	\$ 4,075,868	\$ 1,018,967	Construction / PSAC score 31
607541	Merrimack Valley	Multiple	GEORGETOWN- BOXFORD- BORDER TO BOSTON TRAIL, FROM GEORGETOWN ROAD TO WEST MAIN STREET (ROUTE 97)	4	CMAQ	\$ 1,874,028	\$ 1,499,222	\$ 374,806	Construction / PSAC score 31
607570	Berkshire Region	Lee	LEE- BIKEWAY CONSTRUCTION, FROM STOCKBRIDGE T.L. TO WEST PARK STREET (PHASE 1)	1	CMAQ	\$ 3,758,400	\$ 3,006,720	\$ 751,680	Construction / PSAC score 28
602911	Pioneer Valley	Chicopee	CHICOPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES), INCLUDES NEW BRIDGE C-13-060 OVER OVERFLOW CHANNEL	2	CMAQ	\$ 3,372,552	\$ 2,698,042	\$ 674,510	Construction / PSAC score 25.5
Bicycles and Pedestrians subtotal ►						\$ 23,294,535	\$ 18,635,628	\$ 4,658,907	◀ 80% Federal + 20% Non-Federal

► Capacity

Capacity	Project #	MPO	Municipalities	Description	District	CMAQ	Funding	Funding	Funding
Capacity	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -
Capacity subtotal ►						\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

► Section 3 / Planning / Adjustments / Pass-throughs

► Planning / Adjustments / Pass-throughs

Project #	MPO	Municipalities	Description	District	CMAQ	Funding	Funding	Funding	Notes
	ABPGAN	Statewide	Multiple	ABP GANS Repayment	Multiple	NHPP	\$ 103,925,000	\$ 103,925,000	\$ -
	ABPGAN	Statewide	Multiple	ABP GANS Repayment	Multiple	STP-BR-OFF	\$ 350,000	\$ 350,000	\$ -
	EWO	Statewide	Multiple	Award adjustments, change orders, etc.	Multiple	STP	\$ 31,250,000	\$ 28,125,000	\$ 3,125,000
	MRIDES	Statewide	Multiple	MassRides: Travel Demand Management	Multiple	CMAQ	\$ 3,125,000	\$ 2,500,000	\$ 625,000
	MRIDES	Statewide	Multiple	MassRides: SRTS Education	Multiple	TAP	\$ 200,000	\$ 160,000	\$ 40,000
	UPWP21	Statewide	Multiple	Metropolitan Planning	Multiple	PL	\$ 9,825,026	\$ 7,860,021	\$ 1,965,005
	UPWP21	Statewide	Multiple	Metropolitan Planning	Multiple	SPR	\$ 1,012,803	\$ 810,242	\$ 202,561
	SPR120	Statewide	Multiple	State Planning and Research Work Program I, (SPR I), Planning	Multiple	RD	\$ 13,033,371	\$ 10,426,697	\$ 2,606,674
	SPR220	Statewide	Multiple	State Planning and Research Work Program II, (SPR II), Research	Multiple	SPR	\$ 4,500,000	\$ 3,600,000	\$ 900,000
	RRC	Statewide	Multiple	Railroad Crossings	Multiple	RRHE	\$ 1,250,000	\$ 1,000,000	\$ 250,000
	RRC	Statewide	Multiple	Railroad Crossings	Multiple	RRPD	\$ 1,250,000	\$ 1,000,000	\$ 250,000
	SRT20	Statewide	Multiple	Recreational Trails	Multiple	REC	\$ 1,483,411	\$ 1,186,729	\$ 296,682
Other Statewide Items subtotal ►						\$ 171,204,611	\$ 160,943,689	\$ 10,260,922	◀ Funding Split Varies by Funding Source

► Section 4 / Non-Federally Aided Projects

► Non-Federally Aided Projects

Non Federal Aid	607977	Boston Region	Multiple	HOPKINTON- WESTBOROUGH- RECONSTRUCTION OF I-90/I-495 INTERCHANGE	3	NFA	\$ 18,112,483		\$ 18,112,483	Construction / Total Project Cost = \$270,000,000 / AC YR 1 of 6 / PSAC score 49
Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$ -		\$ -	
Non-Federal Aid subtotal ►							\$ 18,112,483		\$ 18,112,483	◀ 100% Non-Federal

2020 Summary

		TIP Section 1 - TIP Section 4:		Total of All	
		3: ▼		Projects ▼	
Total ►	\$ 569,852,988	\$ 18,112,483	\$ 587,965,471	◀ Total Spending in Region	
Federal Funds ►	\$ 487,459,190		\$ 487,459,190	◀ Total Federal Spending in Region	
Non-Federal Funds ►	\$ 82,393,797	\$ 18,112,483	\$ 100,506,280	◀ Total Non-Federal Spending in Region	

► Bridge Program / Off-System											
Bridge Program	Project #	MPO	Municipalities	Description	District	NHPP-On	\$	\$	\$		
Bridge Program	608636	Berkshire Region	Lenox	LENOX- BRIDGE REPLACEMENT, L-07-006, ROARING BROOK ROAD OVER ROARING BROOK	1	STP-BR-OFF	\$ 1,084,160	\$ 867,328	\$ 216,832		
Bridge Program	608647	Berkshire Region	Savoy	SAVOY- BRIDGE REPLACEMENT, S-06-003, CENTER ROAD OVER CENTER BROOK	1	STP-BR-OFF	\$ 785,680	\$ 628,544	\$ 157,136		
Bridge Program	608634	Franklin Region	Deerfield	DEERFIELD- BRIDGE PRESERVATION D-06-001, UPPER ROAD OVER DEERFIELD RIVER	2	STP-BR-OFF	\$ 7,337,344	\$ 5,869,875	\$ 1,467,469		
Bridge Program	608635	Montachusett	Shirley	SHIRLEY- BRIDGE REPLACEMENT, S-13-005, CARRYING LONGLEY ROAD OVER THE MULPUS BROOK	3	STP-BR-OFF	\$ 1,704,080	\$ 1,363,264	\$ 340,816		
Bridge Program	608637	Boston Region	Maynard	MAYNARD- BRIDGE REPLACEMENT, M-10-006, CARRYING FLORIDA ROAD OVER THE ASSABET RIVER	3	STP-BR-OFF	\$ 1,589,840	\$ 1,271,872	\$ 317,968		
Bridge Program	608615	Old Colony	Kingston	KINGSTON- BRIDGE REPLACEMENT, K-01-014, SMITHS LANE OVER ROUTE 3 (PILGRIM HIGHWAY)	5	STP-BR-OFF	\$ 12,347,440	\$ 9,877,952	\$ 2,469,488		
Bridge Program	608616	Southeastern Mass	Taunton	TAUNTON- BRIDGE REPLACEMENT, T-01-024, SCADDING STREET OVER SNAKE RIVER.	5	STP-BR-OFF	\$ 1,055,600	\$ 844,480	\$ 211,120		
Bridge Program	603796	Southeastern Mass	Mansfield	MANSFIELD- BRIDGE REPLACEMENT, M-03-003 & M-03-045, BALCOM STREET OVER THE WADING RIVER	5	STP-BR-OFF	\$ 860,160	\$ 688,128	\$ 172,032		
Bridge Program	608617	Cape Cod	Harwich	HARWICH- BRIDGE REPLACEMENT, H-10-019, AZALEA DRIVE OVER HERRING RIVER	5	STP-BR-OFF	\$ 1,007,776	\$ 806,221	\$ 201,555		
Bridge Program	608618	Southeastern Mass	Rehoboth	REHOBOTH- BRIDGE REPLACEMENT, R-04-004, REED STREET OVER PALMER RIVER	5	STP-BR-OFF	\$ 1,366,400	\$ 1,093,120	\$ 273,280		
Bridge Program	608619	Southeastern Mass	Fall River	FALL RIVER- BRIDGE REPLACEMENT, F-02-019, WEAVER STREET OVER MASSACHUSETTS COASTAL RAILROAD	5	STP-BR-OFF	\$ 5,165,552	\$ 4,132,442	\$ 1,033,110		
Bridge Program	608854	Berkshire Region	Pittsfield	PITTSFIELD - BRIDGE REPLACEMENT, P-10-034, MILL STREET OVER W. BR. HOUSATONIC RIVER	1	STP-BR-OFF	\$ 1,715,504	\$ 1,372,403	\$ 343,101		
Bridge Program / Off-System subtotal ►							\$ 36,019,536	\$ 28,815,629	\$ 7,203,907	◄ 80% Federal + 20% Non-Federal	
► Bridge Program / On-System (NHS)											
Bridge Program	605843	Berkshire Region	North Adams	NORTH ADAMS- BRIDGE REPLACEMENT, N-14-016, ROUTE 2 OVER THE HOOSIC RIVER	1	NHPP-On	\$ 18,315,704	\$ 14,652,563	\$ 3,663,141		
Bridge Program	606548	Pioneer Valley	Greenfield	GREENFIELD- BRIDGE REPLACEMENT, G-12-052 (0XR) & G-12-053 (0XT), I-91 (NB & SB) OVER BMRR	2	NHPP-On	\$ 17,082,074	\$ 13,665,659	\$ 3,416,415		
Bridge Program	608703	Boston Region	Wilmington	WILMINGTON- BRIDGE REPLACEMENT, W-38-029 (2KV), ST 129 LOWELL STREET OVER I93	4	NHPP-On	\$ 16,546,880	\$ 13,237,504	\$ 3,309,376		
Bridge Program	607327	Boston Region	Wilmington	WILMINGTON- BRIDGE REPLACEMENT, W-38-002, ROUTE 38 (MAIN STREET) OVER THE B&M RAILROAD	4	NHPP-On	\$ 10,760,960	\$ 8,608,768	\$ 2,152,192		
Bridge Program	608189	Montachusett	Fitchburg	FITCHBURG- BRIDGE REPLACEMENT, F-04-018, WATER STREET (ROUTE 12) OVER NORTH NASHUA RIVER	3	NHPP-On	\$ 21,643,216	\$ 17,314,573	\$ 4,328,643		
Bridge Program	605306	Merrimack Valley	Haverhill	HAVERHILL- SUPERSTRUCTURE REPLACEMENT, H-12-039, I-495 (NB & SB) OVER MERRIMACK RIVER	4	NHPP-On	\$ 5,400,000	\$ 4,320,000	\$ 1,080,000	AC Year 4 of 4, Total Cost \$79,000,000	
Bridge Program	604173	Boston Region	Boston	BOSTON- BRIDGE REHABILITATION, B-16-016, NORTH WASHINGTON STREET OVER THE BOSTON INNER HARBOR	6	NHPP-On	\$ 18,666,616	\$ 14,933,293	\$ 3,733,323	AC Year 5 of 5, Total Cost \$144,066,616	
Bridge Program / On-System (NHS) subtotal ►							\$ 108,415,450	\$ 86,732,360	\$ 21,683,090	◄ Funding Split Varies by Funding Source	
► Bridge Program / On-System (Non-NHS)											
Bridge Program	608522	Boston Region	Middleton	MIDDLETON- BRIDGE REPLACEMENT, M-20-003, ROUTE 62 (MAPLE STREET) OVER IPSWICH RIVER	4	NHPP-Off	\$ 3,933,440	\$ 3,146,752	\$ 786,688		
Bridge Program	608596	Boston Region	Essex	ESSEX- SUPERSTRUCTURE REPLACEMENT, E-11-001 (2TV), ROUTE 133/MAIN STREET OVER ESSEX RIVER	4	NHPP-Off	\$ 4,028,000	\$ 3,222,400	\$ 805,600		
Bridge Program	608009	Boston Region	Boxborough	BOXBOROUGH- BRIDGE REPLACEMENT, B-18-002, ROUTE 111 OVER I-495	3	NHPP-Off	\$ 5,147,500	\$ 4,118,000	\$ 1,029,500	AC Year 2 of 2, Total Cost \$14,295,000	
Bridge Program / On-System (Non-NHS) subtotal ►							\$ 13,108,940	\$ 10,487,152	\$ 2,621,788	◄ 80% Federal + 20% Non-Federal	
► Bridge Program / Systematic Maintenance											
Bridge Program	Project #	MPO	Municipalities	Description	District	NHPP-On	\$	\$	\$		
Bridge Program / Systematic Maintenance subtotal ►							\$	\$	\$	◄ Funding Split Varies by Funding Source	

► Interstate Pavement											
Interstate Pavement	608378	Statewide	Multiple	DANVERS- TOPSFIELD- BOXFORD- ROWLEY- INTERSTATE MAINTENANCE AND RELATED WORK ON I-95	4	NHPP	\$ 17,299,744	\$ 15,569,770	\$ 1,729,974	Construction / Includes \$582,400 of stormwater improvements	
Interstate Pavement	608827	Southeastern Mass	Multiple	NORTH ATTLEBOROUGH- ATTLEBORO- INTERSTATE MAINTENANCE AND RELATED WORK ON I-295	5	NHPP	\$ 10,118,170	\$ 9,106,353	\$ 1,011,817	Construction	
Interstate Pavement subtotal ►							\$ 27,417,914	\$ 24,676,123	\$ 2,741,791	◀ 90% Federal + 10% Non-Federal	
► Non-Interstate Pavement											
Non-Interstate Pavement	608485	Statewide	Multiple	LANESBOROUGH- PITTSFIELD- RESURFACING AND RELATED WORK ON ROUTE 8 FROM MM 44.43 TO MM 47.77	1	NHPP	\$ 4,652,032	\$ 3,721,626	\$ 930,406	Construction	
Non-Interstate Pavement	608487	Pioneer Valley	Westfield	WESTFIELD- RESURFACING AND RELATED WORK ON ROUTE 10 AND 202	2	NHPP	\$ 2,775,360	\$ 2,220,288	\$ 555,072	Construction	
Non-Interstate Pavement	608489	Pioneer Valley	Wilbraham	WILBRAHAM- RESURFACING AND RELATED WORK ON ROUTE 20	2	NHPP	\$ 9,086,000	\$ 7,268,800	\$ 1,817,200	Construction	
Non-Interstate Pavement	608490	Central Mass	Multiple	UPTON- GRAFTON- RESURFACING AND RELATED WORK ON ROUTE 140	3	NHPP	\$ 9,376,752	\$ 7,501,402	\$ 1,875,350	Construction	
Non-Interstate Pavement	608491	Central Mass	Multiple	UXBRIDGE- MENDON- RESURFACING AND RELATED WORK ON ROUTE 16	3	NHPP	\$ 5,124,504	\$ 4,099,603	\$ 1,024,901	Construction	
Non-Interstate Pavement	608493	Boston Region	Topsfield	TOPSFIELD- RESURFACING AND RELATED WORK ON ROUTE 1	4	NHPP	\$ 9,119,040	\$ 7,295,232	\$ 1,823,808	Construction	
Non-Interstate Pavement	608494	Merrimack Valley	Multiple	NEWBURY- NEWBURYPORT- SALISBURY- RESURFACING AND RELATED WORK ON ROUTE 1	4	NHPP	\$ 11,854,752	\$ 9,483,802	\$ 2,370,950	Construction	
Non-Interstate Pavement	608495	Boston Region	Multiple	CONCORD- LEXINGTON- LINCOLN- RESURFACING AND RELATED WORK ON ROUTE 2A	4	NHPP	\$ 3,171,840	\$ 2,537,472	\$ 634,368	Construction	
Non-Interstate Pavement	608481	Southeastern Mass	Seekonk	SEEKONK- RESURFACING AND RELATED WORK ON ROUTE 44	5	NHPP	\$ 4,440,576	\$ 3,552,461	\$ 888,115	Construction	
Non-Interstate Pavement	608498	Boston Region	Multiple	HINGHAM- WEMOUTH- BRAINTREE- RESURFACING AND RELATED WORK ON ROUTE 53	5	NHPP	\$ 7,929,600	\$ 6,343,680	\$ 1,585,920	Construction	
Non-Interstate Pavement subtotal ►							\$ 67,530,456	\$ 54,024,365	\$ 13,506,091	◀ 80% Federal + 20% Non-Federal	
► Roadway Improvements											
Roadway Improvements	608597	Southeastern Mass	Attleboro	ATTLEBORO- STORMWATER IMPROVEMENTS ALONG INTERSTATE 95	5	STP	\$ 3,433,080	\$ 2,746,464	\$ 686,616	Construction	
Roadway Improvements subtotal ►							\$ 3,433,080	\$ 2,746,464	\$ 686,616	◀ 80% Federal + 20% Non-Federal	
► Safety Improvements											
Safety Improvements	608620	Statewide	Multiple	ANDOVER- TEWKSBURY- HIGHWAY LIGHTING SYSTEM REHABILITATION AND REPAIR AT THE INTERCHANGE OF INTERSTATE ROUTES 93 AND 495	4	STP	\$ 5,152,000	\$ 4,121,600	\$ 1,030,400	Construction / Total Project Cost = \$10,672,000 / AC YR 1 of 2	
Safety Improvements	608574	Statewide	Multiple	BURLINGTON TO TYNGSBOROUGH- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US 3	4	HSIP	\$ 8,352,098	\$ 7,516,888	\$ 835,210	Construction	
Safety Improvements	608584	Statewide	Multiple	STATEWIDE- VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED (2021)	Multiple	HSIP	\$ 5,794,056	\$ 5,214,650	\$ 579,406	Construction	
Safety Improvements subtotal ►							\$ 19,298,154	\$ 16,853,139	\$ 2,445,015	◀ Funding Split Varies by Funding Source	
► Section 2B / State Prioritized Modernization Projects											
► ADA Retrofits											
ADA Retrofits	608605	Statewide	Multiple	DISTRICT 4 - ADA RETROFITS AT VARIOUS LOCATIONS	4	STP	\$ 705,600	\$ 564,480	\$ 141,120	Construction	
ADA Retrofits	608606	Statewide	Multiple	DISTRICT 5 - ADA RETROFITS AT VARIOUS LOCATIONS	5	STP	\$ 940,800	\$ 752,640	\$ 188,160	Construction	
ADA Retrofits subtotal ►							\$ 1,646,400	\$ 1,317,120	\$ 329,280	◀ 80% Federal + 20% Non-Federal	

► Intersection Improvements											
Intersection Improvements	608565	Statewide	Multiple	DISTRICT 2 - TOP 200 CRASH LOCATION SAFETY IMPROVEMENTS (2021)	2	HSIP	\$ 2,784,000	\$ 2,505,600	\$ 278,400	Construction	
Intersection Improvements	608566	Boston Region	Marlborough	MARLBOROUGH- IMPROVEMENTS AT ROUTE 20 (EAST MAIN STREET) AT CURTIS AVENUE	3	HSIP	\$ 2,784,000	\$ 2,505,600	\$ 278,400	Construction / PSAC score 51.5	
Intersection Improvements	608562	Boston Region	Somerville	SOMERVILLE- SIGNAL AND INTERSECTION IMPROVEMENT ON I-93 AT MYSTIC AVENUE AND	4	HSIP	\$ 2,784,000	\$ 2,505,600	\$ 278,400	Construction / PSAC score 68	
Intersection Improvements	608568	Cape Cod	Yarmouth	YARMOUTH- IMPROVEMENTS AT MAIN STREET (ROUTE 28) AT NORTH MAIN STREET AT OLD MAIN STREET	5	HSIP	\$ 2,784,000	\$ 2,505,600	\$ 278,400	Construction / PSAC score 54	
Intersection Improvements	607342	Boston Region	Milton	MILTON- INTERSECTION & SIGNAL IMPROVEMENTS @ ROUTE 28 (RANDOLPH AVENUE) & CHICKATAWBUT ROAD	6	HSIP	\$ 1,531,200	\$ 1,378,080	\$ 153,120	Construction / PSAC score 43	
Intersection Improvements	608569	Boston Region	Quincy	QUINCY- INTERSECTION IMPROVEMENTS AT ROUTE 28 (SOUTHERN ARTERY) AND BROAD STREET	6	HSIP	\$ 2,784,000	\$ 2,505,600	\$ 278,400	Construction / PSAC score 55	
Intersection Improvements	608584	Statewide	Multiple	STATEWIDE-VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED (2021)	Multiple	HSIP	\$ 3,021,022	\$ 2,718,920	\$ 302,102	Construction	
Intersection Improvements subtotal ►							\$ 18,472,222	\$ 16,625,000	\$ 1,847,222	◄ Funding Split Varies by Funding Source	
► Intelligent Transportation Systems											
Intelligent Transportation	608631	Statewide	Multiple	STATEWIDE INTELLIGENT TRANSPORTATION SYSTEMS, YEAR 2021	Multiple	NHPP	\$ 10,000,000	\$ 8,000,000	\$ 2,000,000		
Intelligent Transportation	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -		
Intelligent Transportation System subtotal ►							\$ 10,000,000	\$ 8,000,000	\$ 2,000,000	◄ 80% Federal + 20% Non-Federal	
► Roadway Reconstruction											
Roadway Reconstruction	607901	Boston Region	Dedham	DEDHAM- PEDESTRIAN IMPROVEMENTS ALONG ELM STREET & RUSTCRAFT ROAD CORRIDORS	6	CMAQ	\$ 2,581,113	\$ 2,064,890	\$ 516,223	Construction / PSAC score 51.25	
Roadway Reconstruction	607977	Boston Region	Multiple	HOPKINTON- WESTBOROUGH- RECONSTRUCTION OF I-90/I-495 INTERCHANGE	3	NHPP	\$ 37,500,000	\$ 30,000,000	\$ 7,500,000	Construction / Total Project Cost = \$270,000,000 / AC YR 2 of 6 / PSAC score 49	
Roadway Reconstruction	602659	Central Mass	Multiple	CHARLTON- OXFORD- RECONSTRUCTION ON ROUTE 20, FROM RICHARDSON'S CORNER EASTERLY TO ROUTE 12, INCLUDES REHAB OF C-06-023 & REPLACEMENT OF O-06-002	3	NHPP	\$ 10,400,000	\$ 8,320,000	\$ 2,080,000	Construction / Total Project Cost = \$57,426,624 w/ \$11,386,727 of Central Mass regional funding in 2020 and 2021 / AC YR 2 of 4 / PSAC score 49.5	
Roadway Reconstruction	608049	Southeastern Mass	Fall River	FALL RIVER- CORRIDOR IMPROVEMENTS ON ROUTE 79/DAVOL STREET	5	NHPP	\$ 15,000,000	\$ 12,000,000	\$ 3,000,000	Construction / Total Project Cost = \$81,290,000 / AC YR 2 of 5 / PSAC score 50.5	
Roadway Reconstruction subtotal ►							\$ 65,481,113	\$ 52,384,890	\$ 13,096,223	◄ 80% Federal + 20% Non-Federal	
► Section 2C / State Prioritized Expansion Projects											
► Bicycles and Pedestrians											
Bicycles and Pedestrians	607588	Franklin Region	Northfield	NORTHFIELD- CONSTRUCT BIKE/PED BRIDGE TO REPLACE N-22-002, SCHELL BRIDGE OVER THE CONNECTICUT RIVER	2	CMAQ	\$ 18,034,116	\$ 14,427,293	\$ 3,606,823	Construction / PSAC score 36	
Bicycles and Pedestrians	607329	Boston Region	Multiple	WAKEFIELD- LYNNFIELD- RAIL TRAIL EXTENSION, FROM THE GALVIN MIDDLE SCHOOL TO LYNNFIELD/PEABODY T.L.	4	CMAQ	\$ 7,084,000	\$ 5,667,200	\$ 1,416,800	Construction / PSAC score 32.5	
Bicycles and Pedestrians	607979	Southeastern Mass	Marion	MARION- SHARED USE PATH CONSTRUCTION (PHASE 1), FROM THE MARION-MATTAPOISETT T.L. TO POINT ROAD	5	CMAQ	\$ 3,360,000	\$ 2,688,000	\$ 672,000	Construction / PSAC score 31.5	
Bicycles and Pedestrians	608142	Martha's Vineyard	Oak Bluffs	OAK BLUFFS- CONSTRUCTION OF A SHARED USE PATH ALONG BEACH ROAD, FROM THE LAGOON POND BRIDGE NORTHERLY TO THE EASTVILLE AVENUE/COUNTY ROAD INTERSECTION	5	CMAQ	\$ 791,542	\$ 633,234	\$ 158,308	Construction / Total Project Cost = \$2,240,448 w/ \$1,448,906 from Martha's Vineyard regional funding / AC YR 1 of 2 / PSAC Score 29.5	
Bicycles and Pedestrians	602912	Pioneer Valley	Chicopee	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	2	CMAQ	\$ 2,273,910	\$ 1,819,128	\$ 454,782	Construction / PSAC score 29	
Bicycles and Pedestrians	607822	Southeastern Mass	Multiple	NORTON- MANSFIELD- RAIL TRAIL EXTENSION (WORLD WAR II VETERANS TRAIL)	5	CMAQ	\$ 3,456,432	\$ 2,765,146	\$ 691,286	Construction / PSAC score 24	
Bicycles and Pedestrians subtotal ►							\$ 35,000,000	\$ 28,000,000	\$ 7,000,000	◄ 80% Federal + 20% Non-Federal	

► Section 3 / Planning / Adjustments / Pass-throughs

► Planning / Adjustments / Pass-throughs

Planning / Adjustments / Pass-throughs	ABPGAN	Statewide	Multiple	ABP GANS Repayment	Multiple	NHPP	\$ 107,350,000	\$ 107,350,000	\$ -	
Planning / Adjustments / Pass-throughs	ABPGAN	Statewide	Multiple	ABP GANS Repayment	Multiple	STP-BR-OFF	\$ 350,000	\$ 350,000	\$ -	
Planning / Adjustments / Pass-throughs	EWO	Statewide	Multiple	Award adjustments, change orders, etc.	Multiple	STP	\$ 25,000,000	\$ 22,500,000	\$ 2,500,000	
Planning / Adjustments / Pass-throughs	MRIDES	Statewide	Multiple	MassRides: Travel Demand Management	Multiple	CMAQ	\$ 3,125,000	\$ 2,500,000	\$ 625,000	
Planning / Adjustments / Pass-throughs	MRIDES	Statewide	Multiple	MassRides: SRTS Education	Multiple	TAP	\$ 200,000	\$ 160,000	\$ 40,000	
Planning / Adjustments / Pass-throughs	UPWP22	Statewide	Multiple	Metropolitan Planning	Multiple	PL	\$ 9,825,026	\$ 7,860,021	\$ 1,965,005	
Planning / Adjustments / Pass-throughs	UPWP22	Statewide	Multiple	Metropolitan Planning	Multiple	SPR	\$ 1,012,803	\$ 810,242	\$ 202,561	
Planning / Adjustments / Pass-throughs	SPR121	Statewide	Multiple	State Planning and Research Work Program I, (SPR I), Planning	Multiple	RD	\$ 13,033,371	\$ 10,426,697	\$ 2,606,674	
Planning / Adjustments / Pass-throughs	SPR221	Statewide	Multiple	State Planning and Research Work Program II, (SPR II), Research	Multiple	SPR	\$ 4,500,000	\$ 3,600,000	\$ 900,000	
Planning / Adjustments / Pass-throughs	RRC	Statewide	Multiple	Railroad Crossings	Multiple	RRHE	\$ 1,250,000	\$ 1,000,000	\$ 250,000	
Planning / Adjustments / Pass-throughs	RRC	Statewide	Multiple	Railroad Crossings	Multiple	RRPD	\$ 1,250,000	\$ 1,000,000	\$ 250,000	
Planning / Adjustments / Pass-throughs	SRT21	Statewide	Multiple	Recreational Trails	Multiple	REC	\$ 1,483,411	\$ 1,186,729	\$ 296,682	
Other Statewide Items subtotal ►							\$ 168,379,611	\$ 158,743,689	\$ 9,635,922	◀ Funding Split Varies by Funding Source

► Section 4 / Non-Federally Aided Projects

► Non-Federally Aided Projects

Non Federal Aid	607977	Boston Region	Multiple	HOPKINTON- WESTBOROUGH- RECONSTRUCTION OF I-90/I-495 INTERCHANGE	3	NFA	\$ 18,112,483		\$ 18,112,483	Construction / Total Project Cost = \$270,000,000 / AC YR 2 of 6 / PSAC score 49
Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$ -		\$ -	
Non-Federal Aid subtotal ►							\$ 18,112,483		\$ 18,112,483	◀ 100% Non-Federal

2021 Summary

		TIP Section 1	TIP Section 4	Total of All Projects	
Total	►	\$ 574,202,876	\$ 18,112,483	\$ 592,315,359	◀ Total Spending in Region
Federal Funds	►	\$ 489,405,930		\$ 489,405,930	◀ Total Federal Spending in Region
Non-Federal Funds	►	\$ 84,796,946	\$ 18,112,483	\$ 102,909,429	◀ Total Non-Federal Spending in Region

► Section 2A / State Prioritized Reliability Projects

► Bridge Program / Inspections											
Bridge Program	BRI22	Statewide	Multiple	Bridge Inspection	Multiple	NHPP	\$ 13,000,000	\$ 10,400,000	\$ 2,600,000	2023-2024 NBIS Program	
Bridge Program	BRI22	Statewide	Multiple	Bridge Inspection	Multiple	STP-BR-OFF	\$ 4,900,000	\$ 3,920,000	\$ 980,000	2023-2024 NBIS Program	
Bridge Program / Inspections subtotal ►							\$ 17,900,000	\$ 14,320,000	\$ 3,580,000	◄ Funding Split Varies by Funding Source	

► Bridge Program / Off-System											
Bridge Program	605296	Montachusett	Fitchburg	FITCHBURG- BRIDGE PRESERVATION, F-04-011, CIRCLE STREET OVER NORTH NASHUA RIVER	3	STP-BR-OFF	\$ 3,058,688	\$ 2,446,950	\$ 611,738		
Bridge Program	CM0001	Central Mass	Southbridge	SOUTHBRIDGE - BRIDGE REPLACEMENT, S-21-009, MILL STREET OVER MCKINSTRY BROOK	3	STP-BR-OFF	\$ 1,593,840	\$ 1,275,072	\$ 318,768		
Bridge Program	NM0001	Northern Middlesex	Westford	WESTFORD - BRIDGE REPLACEMENT, STONY BROOK ROAD OVER STONY BROOK	3	STP-BR-OFF	\$ 2,623,920	\$ 2,099,136	\$ 524,784		
Bridge Program	CM0002	Central Mass	Uxbridge	UXBRIDGE - BRIDGE REPLACEMENT, U-02-052, ROUTE 146 RAMP OVER EMVERSON BROOK	3	STP-BR-OFF	\$ 1,535,376	\$ 1,228,301	\$ 307,075		
Bridge Program	PV0003	Pioneer Valley	Hardwick	HARDWICK - BRIDGE REPLACEMENT, H-08-003, CREAMERY ROAD OVER WARE RIVER	2	STP-BR-OFF	\$ 4,123,104	\$ 3,298,483	\$ 824,621		
Bridge Program	MT0001	Montachusett	Petersham	PETERSHAM - BRIDGE REPLACEMENT, P-08-002, GLEN VALLEY ROAD OVER E. BR SWIFT RIVER	2	STP-BR-OFF	\$ 4,569,936	\$ 3,655,949	\$ 913,987		
Bridge Program	FR0001	Franklin	Leverett	LEVERETT - BRIDGE REPLACEMENT, L-09-003, MILLERS ROAD OVER ROARING BROOK	2	STP-BR-OFF	\$ 1,128,912	\$ 903,130	\$ 225,782		
Bridge Program	PV0004	Pioneer Valley	Northampton	NORTHAMPTON - BRIDGE REPLACEMENT, N-19-068, OLD SPRINGFIELD ROAD OVER MILL RIVER	2	STP-BR-OFF	\$ 3,981,120	\$ 3,184,896	\$ 796,224		
Bridge Program	PV0005	Pioneer Valley	Wales	WALES - BRIDGE REPLACEMENT, W-02-002, HOLLAND ROAD OVER WALES BROOK	2	STP-BR-OFF	\$ 540,096	\$ 432,077	\$ 108,019		
Bridge Program	FR0002	Franklin	Rowe	ROWE - BRIDGE REPLACEMENT, R-10-008, CYRUS STAGE ROAD OVER POTTER BROOK	1	STP-BR-OFF	\$ 1,990,560	\$ 1,592,448	\$ 398,112		
Bridge Program	BK0001	Berkshire Region	Otis	OTIS - BRIDGE REPLACEMENT, O-05-007, TANNERY ROAD OVER W. BR. FARMINGTON RIVER	1	STP-BR-OFF	\$ 821,280	\$ 657,024	\$ 164,256		
Bridge Program	BK0002	Berkshire Region	Cheshire	CHESHIRE - BRIDGE REPLACEMENT, C-10-002, SAND MILL ROAD OVER DRY BROOK	1	STP-BR-OFF	\$ 2,462,448	\$ 1,969,958	\$ 492,490		
Bridge Program	FR0003	Franklin	Charlemont	CHARLEMONT - BRIDGE REPLACEMENT, C-05-042, EAST OXBOW ROAD OVER OXBOW BROOK	1	STP-BR-OFF	\$ 1,396,176	\$ 1,116,941	\$ 279,235		
Bridge Program	BK0003	Berkshire Region	Pittsfield	PITTSFIELD - BRIDGE REPLACEMENT, P-10-055, EAST NEW LENOX ROAD OVER SACKETT BROOK	1	STP-BR-OFF	\$ 573,504	\$ 458,803	\$ 114,701		
Bridge Program	BK0004	Berkshire Region	Tyringham	TYRINGHAM - BRIDGE REPLACEMENT, T-10-003, JERUSALEM ROAD OVER HOP BROOK	1	STP-BR-OFF	\$ 2,679,600	\$ 2,143,680	\$ 535,920		
Bridge Program	PV0005	Pioneer Valley	Monson	MONSON - BRIDGE REPLACEMENT, M-27-015, OLD WALES ROAD OVER CONANT BROOK	2	STP-BR-OFF	\$ 1,742,784	\$ 1,394,227	\$ 348,557		
Bridge Program / Off-System subtotal ►							\$ 34,821,344	\$ 27,857,075	\$ 6,964,269	◄ 80% Federal + 20% Non-Federal	

► Bridge Program / On-System (NHS)											
Bridge Program	606728	Boston Region	Boston	BOSTON- SUPERSTRUCTURE REPAIRS ON B-16-365, BOWKER OVERPASS OVER STORROW DRIVE (EB)	6	NHPP-On	\$ 24,009,680	\$ 19,207,744	\$ 4,801,936		
Bridge Program	PV0006	Pioneer Valley	Springfield	SPRINGFIELD, BRIDGE REPLACEMENT, S-24-016, ARMORY STREET OVER CSX RR	2	NHPP-On	\$ 5,723,440	\$ 4,578,752	\$ 1,144,688		
Bridge Program	PV0007	Pioneer Valley	Springfield	SPRINGFIELD, BRIDGE REPLACEMENT, S-24-026, ARMORY STREET OVER CSX RR (ABANDONED)	2	NHPP-On	\$ 3,948,640	\$ 3,158,912	\$ 789,728	YEAR 1 AC OF 3, \$117,077,490	
Bridge Program	606527	Merrimack Valley	New Bedford	NEW BEDFORD- SUPERSTRUCTURE REPLACEMENT, N-06-020, I-195 (EB & WB) RAMP C & F OVER ST 18, COUNTY STREET, STATE STREET, MASS COASTAL RAILROAD, PURCHASE STREET, WELD STREET, INCLUDES REPLACING N-06-046, I-195 (EB) RAMP F OVER WELD STREET	5	NHPP-On	\$ 88,890,000	\$ 71,112,000	\$ 17,778,000		
Bridge Program / On-System (NHS) subtotal ►							\$ 122,571,760	\$ 98,057,408	\$ 24,514,352	◄ Funding Split Varies by Funding Source	

► Interstate Pavement											
Interstate Pavement	608210	Boston Region	Multiple	FOXBOROUGH- PLAINVILLE- WRENTHAM- FRANKLIN- INTERSTATE MAINTENANCE & RELATED WORK ON I-495	5	NHPP	\$ 11,497,920	\$ 10,348,128	\$ 1,149,792	Construction	
Interstate Pavement	608826	Statewide	Multiple	TEWKSBURY- ANDOVER- INTERSTATE RESURFACING AND RELATED WORK ON I-93	4	NHPP	\$ 13,939,180	\$ 12,545,262	\$ 1,393,918	Construction	
Interstate Pavement subtotal ►							\$ 25,437,100	\$ 22,893,390	\$ 2,543,710	◀ 90% Federal + 10% Non-Federal	
► Non-Interstate Pavement											
Non-Interstate Pavement	608812	Berkshire Region	Florida	FLORIDA- RESURFACING AND RELATED WORK ON ROUTE 2	1	NHPP	\$ 6,898,752	\$ 5,519,002	\$ 1,379,750	Construction	
Non-Interstate Pavement	608813	Berkshire Region	Lanesborough	LANESBOROUGH- RESURFACING AND RELATED WORK ON ROUTE 7	1	NHPP	\$ 2,340,648	\$ 1,872,518	\$ 468,130	Construction	
Non-Interstate Pavement	608466	Pioneer Valley	Multiple	BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202	2	NHPP	\$ 4,484,189	\$ 3,587,351	\$ 896,838	Construction	
Non-Interstate Pavement	608814	Central Mass	Multiple	SPENCER- EAST BROOKFIELD- RESURFACING AND RELATED WORK ON ROUTE 9	3	NHPP	\$ 8,943,739	\$ 7,154,991	\$ 1,788,748	Construction	
Non-Interstate Pavement	608815	Central Mass	Holden	HOLDEN- RESURFACING AND RELATED WORK ON ROUTE 122	3	NHPP	\$ 2,956,608	\$ 2,365,286	\$ 591,322	Construction	
Non-Interstate Pavement	608816	Statewide	Multiple	DRACUT- METHUEN- RESURFACING AND RELATED WORK ON ROUTE 110	4	NHPP	\$ 6,159,600	\$ 4,927,680	\$ 1,231,920	Construction	
Non-Interstate Pavement	608817	Boston Region	Multiple	SALEM- LYNN- RESURFACING AND RELATED WORK ON ROUTE 107	4	NHPP	\$ 2,566,500	\$ 2,053,200	\$ 513,300	Construction	
Non-Interstate Pavement	608818	Boston Region	Danvers	DANVERS- RESURFACING AND RELATED WORK ON ROUTE 114	4	NHPP	\$ 1,916,320	\$ 1,533,056	\$ 383,264	Construction	
Non-Interstate Pavement	608819	Cape Cod	Barnstable	BARNSTABLE- RESURFACING AND RELATED WORK ON ROUTE 6	5	NHPP	\$ 11,826,432	\$ 9,461,146	\$ 2,365,286	Construction	
Non-Interstate Pavement	608496	Statewide	Multiple	AVON- STOUGHTON- RESURFACING AND RELATED WORK ON ROUTE 24	5	NHPP	\$ 4,818,176	\$ 3,854,541	\$ 963,635	Construction	
Non-Interstate Pavement	608820	Old Colony	Bridgewater	BRIDGEWATER- BROCKTON- PAVEMENT PRESERVATION AND RELATED WORK ON ROUTE 24	5	NHPP	\$ 11,021,578	\$ 8,817,262	\$ 2,204,316	Construction	
Non-Interstate Pavement subtotal ►							\$ 63,932,542	\$ 51,146,034	\$ 12,786,508	◀ 80% Federal + 20% Non-Federal	
► Roadway Improvements											
Roadway Improvements	SM0001	Southeastern Mass	Attleboro	ATTLEBORO-STORMWATER IMPROVEMENTS ALONG INTERSTATE 95 PART II	5	STP	\$ 1,250,000	\$ 1,000,000	\$ 250,000	Construction	
Roadway Improvements subtotal ►							\$ 1,250,000	\$ 1,000,000	\$ 250,000	◀ 80% Federal + 20% Non-Federal	
► Safety Improvements											
Safety Improvements	608842	Statewide	Multiple	STATEWIDE-VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED (2022)	Multiple	HSIP	\$ 11,653,556	\$ 10,488,200	\$ 1,165,356	Construction	
Safety Improvements	608620	Statewide	Multiple	ANDOVER- TEWKSBURY- HIGHWAY LIGHTING SYSTEM REHABILITATION AND REPAIR AT THE INTERCHANGE OF INTERSTATE ROUTES 93 AND 495	4	STP	\$ 5,152,000	\$ 4,121,600	\$ 1,030,400	Construction / Total Project Cost = \$10,672,000 / AC YR 2 of 2	
Safety Improvements	608433	Central Mass	Webster	WEBSTER- INTERSECTION IMPROVEMENTS AT I-395 RAMP (EXIT 2) AT ROUTE 16 (EAST MAIN STREET) AND SUTTON ROAD	3	HSIP	\$ 2,500,000	\$ 2,250,000	\$ 250,000	Construction / Total Project Cost = \$5,568,000 w/ Central Mass MPO funding at \$1,818,000	
Safety Improvements subtotal ►							\$ 19,305,556	\$ 16,859,800	\$ 2,445,756	◀ Funding Split Varies by Funding Source	
► Section 2B / State Prioritized Modernization Projects											
► ADA Retrofits											
ADA Retrofits	Project #	MPO	Municipalities	Description	District	STP	\$ -	\$ -	\$ -		
ADA Retrofits	Project #	MPO	Municipalities	Description	District	STP	\$ -	\$ -	\$ -		
ADA Retrofits subtotal ►							\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal	

► Intersection Improvements										
Intersection Improvements	Project #	MPO	Municipalities	Description	District	Funding	2022	2023	2024	Notes
Intersection Improvements	608841	Statewide	Multiple	STATEWIDE-VARIOUS INTERSECTION STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED (2022)	Multiple	HSIP	\$ 16,666,667	\$ 15,000,000	\$ 1,666,667	Construction
Intersection Improvements	Project #	MPO	Municipalities	Description	District	HSIP	\$ -	\$ -	\$ -	
Intersection Improvements subtotal ►							\$ 16,666,667	\$ 15,000,000	\$ 1,666,667	◀ Funding Split Varies by Funding Source
► Intelligent Transportation Systems										
Intelligent Transportation	608839	Statewide	Multiple	STATEWIDE INTELLIGENT TRANSPORTATION SYSTEMS, YEAR 2022	Multiple	NHPP	\$ 10,000,000	\$ 8,000,000	\$ 2,000,000	
Intelligent Transportation	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -	
Intelligent Transportation System subtotal ►							\$ 10,000,000	\$ 8,000,000	\$ 2,000,000	◀ 80% Federal + 20% Non-Federal
► Roadway Reconstruction										
Roadway Reconstruction	607977	Boston Region	Multiple	HOPKINTON- WESTBOROUGH- RECONSTRUCTION OF I-90/I-495 INTERCHANGE	3	NHPP	\$ 37,500,000	\$ 30,000,000	\$ 7,500,000	Construction / Total Project Cost = \$270,000,000 / AC YR 3 of 6 / PSAC score 49
Roadway Reconstruction	602659	Central Mass	Multiple	CHARLTON- OXFORD- RECONSTRUCTION ON ROUTE 20, FROM RICHARDSON'S CORNER EASTERLY TO ROUTE 12, INCLUDES REHAB OF C-06-023 & REPLACEMENT OF O-06-002	3	NHPP	\$ 10,400,000	\$ 8,320,000	\$ 2,080,000	Construction / Total Project Cost = \$57,426,624 w/ \$11,386,727 of Central Mass regional funding in 2020 and 2021 / AC YR 3 of 4 / PSAC score 49.5
Roadway Reconstruction	608049	Southeastern Mass	Fall River	FALL RIVER- CORRIDOR IMPROVEMENTS ON ROUTE 79/DAVOL STREET	5	NHPP	\$ 15,000,000	\$ 12,000,000	\$ 3,000,000	Construction / Total Project Cost = \$81,290,000 / AC YR 3 of 5 / PSAC score 50.5
Roadway Reconstruction subtotal ►							\$ 62,900,000	\$ 50,320,000	\$ 12,580,000	◀ 80% Federal + 20% Non-Federal
► Section 2C / State Prioritized Expansion Projects										
► Bicycles and Pedestrians										
Bicycles and Pedestrians	608157	Pioneer Valley	Springfield	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	2	CMAQ	\$ 3,968,300	\$ 3,174,640	\$ 793,660	Construction / PSAC score 30.5
Bicycles and Pedestrians	607542	Berkshire Region	Multiple	GEORGETOWN- NEWBURY- BORDER TO BOSTON TRAIL (NORTHERN GEORGETOWN TO BYFIELD SECTION)	4	CMAQ	\$ 4,496,160	\$ 3,596,928	\$ 899,232	Construction / PSAC score 28.5
Bicycles and Pedestrians	606890	Berkshire Region	Multiple	ADAMS- NORTH ADAMS- ASHUWILLITCOOK RAIL TRAIL EXTENSION TO ROUTE 8A (HODGES CROSS ROAD)	1	CMAQ	\$ 4,949,402	\$ 3,959,522	\$ 989,880	Construction / PSAC score 27
Bicycles and Pedestrians	607347	Montachusett	Gardner	GARDNER- BIKE PATH CONSTRUCTION, NORTH CENTRAL PATHWAY (PHASE VI)	3	CMAQ	\$ 3,000,000	\$ 2,400,000	\$ 600,000	Construction / PSAC score 24
Bicycles and Pedestrians	608422	Cape Cod	Sandwich	SANDWICH- CONSTRUCTION OF SHARED USE PATH ALONG SERVICE ROAD FROM ROUTE 130 TO CHASE ROAD	5	CMAQ	\$ 5,800,464	\$ 4,640,371	\$ 1,160,093	Construction / PSAC score 22
Bicycles and Pedestrians	605677	Southeastern Mass	Mattapoissett	MATTAPOISETT- MULTI-USE PATH CONSTRUCTION (PENN CENTRAL RIGHT OF WAY), FROM MATTAPOISETT NECK ROAD TO DEPOT STREET (PHASE 1B)	5	CMAQ	\$ 5,153,157	\$ 4,122,526	\$ 1,030,631	Construction / Total Project Cost = \$13,545,983 w/ Southeastern Mass regional funding of \$8,392,826 / PSAC score 20
Bicycles and Pedestrians	607398	Cape Cod	Multiple	YARMOUTH- BARNSTABLE- CAPE COD RAIL TRAIL EXTENSION, INCLUDES NEW BRIDGE OVER WILLOW STREET & RAILROAD (PHASE III)	5	CMAQ	\$ 7,632,517	\$ 6,106,014	\$ 1,526,503	Construction / PSAC score 20
Bicycles and Pedestrians subtotal ►							\$ 35,000,000	\$ 28,000,000	\$ 7,000,000	◀ 80% Federal + 20% Non-Federal
► Capacity										
Capacity	Project #	MPO	Municipalities	Description	District	CMAQ	\$ -	\$ -	\$ -	
Capacity	Project #	MPO	Municipalities	Description	District	NHPP	\$ -	\$ -	\$ -	
Capacity subtotal ►							\$ -	\$ -	\$ -	◀ Funding Split Varies by Funding Source

► Section 3 / Planning / Adjustments / Pass-throughs

► Planning / Adjustments / Pass-throughs

Planning / Adjustments / Pass-throughs	ABPGAN	Statewide	Multiple	ABP GANS Repayment	Multiple	NHPP	\$ 116,420,949	\$ 116,420,949	\$ -	
Planning / Adjustments / Pass-throughs	ABPGAN	Statewide	Multiple	ABP GANS Repayment	Multiple	STP-BR-OFF	\$ 350,000	\$ 350,000	\$ -	
Planning / Adjustments / Pass-throughs	EWO	Statewide	Multiple	Award adjustments, change orders, etc.	Multiple	STP	\$ 25,000,000	\$ 22,500,000	\$ 2,500,000	
Planning / Adjustments / Pass-throughs	MRIDES	Statewide	Multiple	MassRides: Travel Demand Management	Multiple	CMAQ	\$ 3,125,000	\$ 2,500,000	\$ 625,000	
Planning / Adjustments / Pass-throughs	MRIDES	Statewide	Multiple	MassRides: SRTS Education	Multiple	TAP	\$ 200,000	\$ 160,000	\$ 40,000	
Planning / Adjustments / Pass-throughs	UPWP23	Statewide	Multiple	Metropolitan Planning	Multiple	PL	\$ 9,825,026	\$ 7,860,021	\$ 1,965,005	
Planning / Adjustments / Pass-throughs	UPWP23	Statewide	Multiple	Metropolitan Planning	Multiple	SPR	\$ 1,012,803	\$ 810,242	\$ 202,561	
Planning / Adjustments / Pass-throughs	SPR122	Statewide	Multiple	State Planning and Research Work Program I, (SPR I), Planning	Multiple	RD	\$ 13,033,371	\$ 10,426,697	\$ 2,606,674	
Planning / Adjustments / Pass-throughs	SPR222	Statewide	Multiple	State Planning and Research Work Program II, (SPR II), Research	Multiple	SPR	\$ 4,500,000	\$ 3,600,000	\$ 900,000	
Planning / Adjustments / Pass-throughs	RRC	Statewide	Multiple	Railroad Crossings	Multiple	RRHE	\$ 1,250,000	\$ 1,000,000	\$ 250,000	
Planning / Adjustments / Pass-throughs	RRC	Statewide	Multiple	Railroad Crossings	Multiple	RRPD	\$ 1,250,000	\$ 1,000,000	\$ 250,000	
Planning / Adjustments / Pass-throughs	SRT22	Statewide	Multiple	Recreational Trails	Multiple	REC	\$ 1,483,411	\$ 1,186,729	\$ 296,682	
Other Statewide Items subtotal ►							\$ 177,450,560	\$ 167,814,638	\$ 9,635,922	◀ Funding Split Varies by Funding Source

► Section 4 / Non-Federally Aided Projects

► Non-Federally Aided Projects

Non Federal Aid	607977	Boston Region	Multiple	HOPKINTON- WESTBOROUGH- RECONSTRUCTION OF I-90/I-495 INTERCHANGE	3	NFA	\$ 18,112,483		\$ 18,112,483	Construction / Total Project Cost = \$270,000,000 / AC YR 3 of 6 / PSAC score 49
Non Federal Aid	Project #	MPO	Municipalities	Description	District	NFA	\$ -		\$ -	
Non-Federal Aid subtotal ►							\$ 18,112,483		\$ 18,112,483	◀ 100% Non-Federal

2022 Summary

		TIP Section 1	TIP Section 4	Total of All Projects	
Total ►	\$ 587,235,529	\$ 18,112,483	\$ 605,348,012	◀ Total Spending in Region	
Federal Funds ►	\$ 501,268,345	\$ 501,268,345	◀ Total Federal Spending in Region		
Non-Federal Funds ►	\$ 85,967,184	\$ 18,112,483	\$ 104,079,667	◀ Total Non-Federal Spending in Region	

VII. PROJECT IMPLEMENTATION

The TIP is also used as a management tool for monitoring the progress and implementation of the RTP and previous TIP's. The award status of FFY 2016-2017 TIP projects are identified in table 22.

Table 22 Project Implementation

Year	Highway Project Description	SID	Funding	Programmed	Status
2016	LONGMEADOW- RESURFACING & RELATED WORK ON CONVERSE STREET, FROM LAUREL STREET TO DWIGHT STREET (2.04 MILES)	606445	STP	\$2,742,048	Construction
2016	WESTFIELD- RECONSTRUCTION OF ROUTE 187 (LITTLE RIVER ROAD) AND SHAKER ROAD	604446	STP, TAP	\$6,206,561	Construction
2016	WILBRAHAM- RECONSTRUCTION OF BOSTON ROAD (ROUTE 20) FROM DUDLEY STREET TO 400FT. EAST OF DUMAINE STREET (0.28MILES)	607869	STP	\$1,292,428	Construction
2016	BRIMFIELD- STURBRIDGE- RESURFACING & RELATED WORK ON ROUTE 20, BEGINNING EAST OF NEW HOLLAND ROAD (MM 87.8), ENDING WEST OF GALILEO DRIVE (MM 91.9)	608022	STP	\$3,500,000	Construction
2016	SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS @ ROOSEVELT AVENUE & ISLAND POND ROAD, ROOSEVELT AVENUE & ALDEN STREET	605385	CMAQ, HSIP	\$2,297,372	Construction
2016	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION, NORTH SECTION - FROM COWLES COURT ACCESS RAMPS TO THE WESTFIELD RIVER BRIDGE INCLUDES REHAB OF W-25-036 (WESTFIELD RIVER CROSSING)	604968	CMAQ	\$3,004,516	Construction
2016	SPRINGFIELD - UNION STATION REDEVELOPMENT		CMAQ	\$750,873	Construction
2016	SOUTH HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 202 (GRANBY ROAD) & ROUTE 33 (LYMAN STREET)	607735	SW HSIP	\$550,000	Construction
2016	SOUTHAMPTON - SAFE ROUTES TO SCHOOL - NORRIS ELEMENTARY SCHOOL (100%)	607453	SRS	\$832,000	Construction
2016	SOUTHWICK- INTERSECTION IMPROVEMENTS AT FOUR LOCATIONS ON ROUTE 57 (FEEDING HILLS ROAD)	603477	SW CMAQ	\$3,551,223	Construction
2016	WEST SPRINGFIELD - ADAPTIVE SIGNAL CONTROL ON ROUTE 5 (RIVERDALE STREET)	608280	SW HSIP	\$540,981	Construction
2016	WEST SPRINGFIELD- CONNECTICUT RIVERWALK & BIKEWAY EXTENSION, FROM ELM STREET TO DOTY CIRCLE, INCLUDES PEDESTRIAN BRIDGE W-21-020	603730	SW-STP	\$ 1,840,736	Construction

Year	Highway Project Description	SID	Funding	Programme d	Status
2017	PIONEER VALLEY REGIONAL BICYCLE SHARE (PHASE 1)	PV00 1	CMAQ	\$ 1,343,971	Not Advertised
2017	HOLYOKE- IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	6069 03	STP	\$ 1,700,004	Not Advertised
2017	AMHERST- HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9	6080 23	STP, TAP	\$ 1,204,050	Construction
2017	SOUTHWICK- RECONSTRUCTION CONGAMOND ROAD (ROUTE 168), FROM COLLEGE HIGHWAY & ENDS 250 FEET SHORT OF STATE LINE (1.2 MILES)	6040 33	STP, CMAQ	\$ 7,172,979	Not Advertised
2017	LUDLOW- RECONSTRUCTION OF CENTER STREET (ROUTE 21), FROM 35' WEST OF BEACHSIDE DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET)	6050 11	STP, HSIP, TAP	\$ 5,845,350	Not Advertised
2017	GOSHEN- RESURFACING & RELATED WORK ON WEST STREET	6051 50	STP	\$ 3,800,000	Not Advertised
2017	AGAWAM- WEST SPRINGFIELD- BRIDGE REPLACEMENT, A-05-002=W-21-014, ROUTE 147 OVER THE WESTFIELD RIVER & INTERSECTION & SIGNAL IMPROVEMENTS @ 3 LOCATIONS	6053 84	NHPP	\$ 23,173,893	Not Advertised
2017	AMHERST- BRIDGE REPLACEMENT, A-08-008, MILL STREET OVER MILL RIVER	6075 28	NHPP	\$ 2,075,400	Not Advertised
2017	CHESTERFIELD- BRIDGE REPLACEMENT, C-12-009, IRELAND STREET OVER WEST BRANCH BRONSON BROOK	6075 49	NHPP	\$ 3,341,040	Not Advertised
2017	CHICOPEE- SPRINGFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON I-291	6082 11	IM	\$ 4,118,400	Construction
2017	AGAWAM- CHICOPEE- HOLYOKE- WEST SPRINGFIELD- STORMWATER IMPROVEMENTS ALONG I-91, I-391, ROUTE 57 AND ROUTE 5	6081 92	IM	\$ 1,276,062	Construction

VIII. Air Quality Conformity Information

Since most all of Massachusetts (with limited exceptions) was designated on 5/21/12 by the United States Environmental Protection Agency as “unclassifiable/attainment” for the latest ozone standard, a conformity determination for the Pioneer Valley 2018-2022 TIP is not required for ozone. Conformity determination is however required for carbon monoxide. Further details and background information are provided below:

Carbon Monoxide

A new transportation conformity determinations for carbon monoxide is required for the 2018-2022 TIP in Central Massachusetts MPO (Worcester); Pioneer Valley MPO (Springfield); Boston MPO (Waltham and Boston Area); Northern Middlesex MPO (Lowell).

The Boston Carbon Monoxide Area (nine communities - Boston, Cambridge, Chelsea, Everett, Malden, Medford, Quincy, Revere, and Somerville) has a maintenance plan in place with a SIP-Approved 2010 motor vehicle carbon monoxide emission budget in place requiring a regional emission analysis for any carbon monoxide conformity determination of the Boston CO Area.

Limited Maintenance Plans are in place for Worcester; Springfield; Waltham and Lowell, hence regional emissions analyses are assumed to satisfy the budget test in these areas.

Ozone

As of July 20, 2013, Dukes County, Massachusetts [Dukes County Wampanoag Tribe of Gay Head (Aquinnah) of Massachusetts] is nonattainment, classification marginal, for the 2008 8-Hour Ozone National Ambient Air Quality Standard (NAAQS), also known as the 2008 ozone standard. However, Interagency Transportation Conformity Consultation has determined Dukes County, Massachusetts to be an isolated rural nonattainment area for the 2008 8-hour ozone standard. An ozone conformity determination is required when the isolated rural area (Dukes County) includes non-exempt projects in its STIP/TIP and TP. See 40 CFR Section 109(g) for conformity in isolated rural nonattainment and maintenance areas.

Introduction

The 1990 Clean Air Act Amendments (CAAA) require metropolitan planning organizations within nonattainment and maintenance areas to perform air quality conformity determinations prior to the approval of Long-Range Transportation Plans (LRTPs) and Transportation Improvement Programs (TIPs), and at such other times as required by regulation. A nonattainment area is one that the U.S. Environmental Protection Agency (EPA) has designated as not meeting certain air quality standards. A maintenance area is a nonattainment area that now meets the standards and has been re-designated as maintaining the standard. A conformity determination is a demonstration that plans, programs, and projects are consistent with the State Implementation Plan (SIP) for attaining the air quality standards. The CAAA requirement to perform a conformity determination ensures that federal approval and funding go to transportation activities that are consistent with air quality goals.

The entire Commonwealth of Massachusetts was previously classified as nonattainment for ozone, and was divided into two nonattainment areas. The Eastern Massachusetts ozone nonattainment area included Barnstable, Bristol, Dukes, Essex, Middlesex, Nantucket, Norfolk, Plymouth, Suffolk, and Worcester counties. Berkshire, Franklin, Hampden, and Hampshire counties comprised the Western Massachusetts ozone nonattainment area. With these classifications, the 1990 Clean Air Act Amendments (CAAA)

required the Commonwealth to reduce its emissions of volatile organic compounds (VOCs) and nitrogen oxides (NOx), the two major precursors to ozone formation to achieve attainment of the ozone standard.

As of April 22, 2002, the city of Springfield was re-designated as being in attainment for carbon monoxide (CO) with an EPA-approved limited maintenance plan. In areas with approved limited maintenance plans, federal actions requiring conformity determinations under the transportation conformity rule are considered to satisfy the "budget test" (as budgets are treated as not constraining in these areas for the length of the initial maintenance period). Any future required "project level" conformity determinations for projects located within this community will continue to use a "hot-spot" analysis to assure that any new transportation projects in this CO attainment area do not cause or contribute to carbon monoxide non-attainment.

Legislative and Regulatory Background

The 1970 Clean Air Act defined a one-hour national ambient air quality standard (NAAQS) for ground-level ozone. The 1990 CAAA further classified degrees of nonattainment of the one-hour standard based on the severity of the monitored levels of the pollutant. The entire commonwealth of Massachusetts was classified as being in serious nonattainment for the one-hour ozone standard, with a required attainment date of 1999. The attainment date was later extended, first to 2003 and a second time to 2007.

In 1997, the EPA proposed a new, eight-hour ozone standard that replaced the one-hour standard, effective June 15, 2005. Scientific information had shown that ozone could affect human health at lower levels, and over longer exposure times than one hour. The new standard was challenged in court, and after a lengthy legal battle, the courts upheld it. It was finalized in June 2004. The eight-hour standard is 0.08 parts per million, averaged over eight hours and not to be exceeded more than once per year. Nonattainment areas were again further classified based on the severity of the eight-hour values. Massachusetts as a whole was classified as being in moderate nonattainment for the eight-hour standard, and was separated into two nonattainment areas—Eastern Massachusetts and Western Massachusetts.

In March 2008, EPA published revisions to the eight-hour ozone NAAQS establishing a level of 0.075 ppm, (March 27, 2008; 73 FR 16483). In 2009, EPA announced it would reconsider this standard because it fell outside of the range recommended by the Clean Air Scientific Advisory Committee. However, EPA did not take final action on the reconsideration so the standard would remain at 0.075 ppm.

After reviewing data from Massachusetts monitoring stations, EPA sent a letter on December 16, 2011 proposing that only Dukes County would be designated as nonattainment for the new proposed 0.075 ozone standard. Massachusetts concurred with these findings.

On May 21, 2012, (77 FR 30088), the final rule was published in the Federal Register, defining the 2008 NAAQS at 0.075 ppm, the standard that was promulgated in March 2008. A second rule published on May 21, 2012 (77 FR 30160), revoked the 1997 ozone NAAQS to occur one year after the July 20, 2012 effective date of the 2008 NAAQS.

Also on May 21, 2012, the air quality designations areas for the 2008 NAAQS were published in the Federal Register. In this Federal Register, the only area in Massachusetts that was designated as nonattainment is Dukes County. All other Massachusetts counties were classified as unclassifiable/attainment. Therefore, conformity for ozone in the Pioneer Valley MPO does not require conformity under the current 2008 standard and the MPO does not need to perform a conformity determination for ozone on the program.

IX. Greenhouse Gas Monitoring and Evaluation

Introduction

This section summarizes the greenhouse gas (GHG) impacts that are anticipated to result from the projects that are included in this FFY 2018 – 2022 Transportation Improvement Program (TIP). It includes a summary of the state laws and policies that call for reducing greenhouse gas in order to mitigate global climate change, actions that are being to respond to these state laws and policies, the role of regional planning and TIP development in reducing GHG emission and tracking these reductions, and the projected GHG emission impacts from the projects programmed in the TIP.

State Policy Context

The Global Warming Solutions Act (GWSA), which was signed into law in August 2008, makes Massachusetts a leader in setting aggressive and enforceable GHG reduction targets, and implementing policies and initiatives to achieve these targets. In keeping with the law, on December 29, 2010 the Massachusetts Executive Office of Energy and Environmental Affairs (EOEEA), in consultation with other state agencies and the public, released the Massachusetts *Clean Energy and Climate Plan for 2020*. In December 2014 the Department of Environmental Protection issued new regulations that require Metropolitan Planning Organizations to quantify impacts from project investments, track progress towards reductions, and consider impacts in the prioritization of GHG impacts from project investments. The targets for overall statewide GHG emissions are:



GreenDOT Policy

The transportation sector is the single largest emitter of greenhouse gases, accounting for over a third of GHG emissions, and therefore the transportation sector is a key focus of the *Clean Energy and Climate Plan*. MassDOT’s approach to supporting the implementation of the plan is set forth in its GreenDOT Policy Directive, a comprehensive sustainability initiative that sets three principal objectives:

- **Reduce greenhouse gas (GHG) emissions.** MassDOT will achieve this by taking GHG emissions into account in all of its responsibilities, from strategic planning to project design and construction and system operations.
- **Promote the healthy transportation modes of walking, bicycling, and public transit.** MassDOT will achieve this by pursuing multi-modal, “complete streets” design standards; providing choice in transportation services; and by working with MPOs and other partners to prioritize and program a balance of projects that serve drivers, pedestrians, bicyclists, and public transit riders.
- **To support smart growth development.** MassDOT will achieve this by working with MPOs and other partners to make transportation investments that enable denser, smart growth development patterns that support reduced GHG emissions.
-

GreenDOT Policy and Metropolitan Planning Organizations

The Commonwealth's thirteen metropolitan planning organizations (MPOs) are integrally involved in helping to achieve the GreenDOT goals and supporting the GHG reductions mandated under the GWSA. The MPOs are most directly involved in helping to achieve the GHG emissions reductions under the second goal – to promote healthy transportation modes through prioritizing and programming an appropriate balance of roadway, transit, bicycle and pedestrian investments – and assist in the third goal by supporting smart growth development patterns through the creation of a balanced multi-modal transportation system. This will be realized through the transportation goals and policies espoused in the 2017 Regional Transportation Plans (RTPs), the major projects planned in the RTPs, and the mix of new transportation projects that are programmed and implemented through the TIPs. The GHG tracking and evaluation processes enable the MPOs to identify the anticipated GHG impacts of the planned and programmed projects, and also to use GHG impacts as a criterion in prioritizing transportation projects.

Regional GHG Tracking and Evaluation in RTPs

MassDOT coordinated with MPOs and regional planning agency (RPA) staffs on the implementation of GHG tracking and evaluation in development of each MPO's 2035 RTPs, which were adopted in September 2011. This collaboration has continued for the MPO's 2040 RTPs and 2018-22 TIPs.

Working together, MassDOT and the MPOs have attained the following milestones:

Modeling and long-range statewide projections for GHG emissions resulting from the transportation sector. Using the Boston MPO's regional model and the statewide travel demand model for the remainder of the state, GHG emissions were projected for 2020 no-build and build conditions, and for 2040 no-build and build conditions.

All of the MPOs included these GHG emission projections in their RTPs, along with a discussion of climate change and a statement of MPO support for reducing GHG emissions as a regional goal.

Project-Level GHG Tracking and Evaluation in the Transportation Improvement Program

It is also important to monitor and evaluate the GHG impacts of the transportation projects that are programmed in the MPO Transportation Improvement Programs (TIP). The TIP includes both the larger, regionally-significant projects from the RTPs, which have already had their aggregate GHG impacts calculated and reported in the RTP, as well as smaller projects that are not included in the RTP but that may nevertheless have impacts on GHG emissions. The principal objective of this tracking is to enable the MPOs to evaluate expected GHG impacts of different projects and to use this information as a criterion for prioritizing and programming projects in future TIPs.

In order to monitor and evaluate the GHG impacts of TIP projects, MassDOT and the MPOs have developed the following approach for identifying anticipated GHG impacts and quantifying GHG impacts of projects, when appropriate, through the TIP. Different types of projects will have different anticipated GHG emissions impacts. The different project categories are outlined on the next two pages with this region's project tracking sheet on the third page.

Calculation of GHG Impacts for TIP Projects

The Office of Transportation Planning at MassDOT provided the spreadsheets that are used for determining Congestion Management and Air Quality Improvement (CMAQ) eligibility. These spreadsheets require the same inputs as the CMAQ calculations, and have been adapted to provide CO₂ impacts. The data and analysis required for these calculations is available from functional design reports that should be submitted for projects that would produce a measurable GHG impact.

Projects with Quantified Impacts

RTP Projects - Major capacity expansion projects would be expected to have a significant impact on GHG emissions. However, these projects are included in the RTPs and analyzed using the statewide model or Boston regional model, which would reflect their GHG impacts. Therefore, no independent TIP calculations are required.

- **Quantified Decrease in Emissions** - Projects that would be expected to produce a measurable decrease in emissions. The approach for calculating these impacts is described below. These projects should be categorized in the following manner:
- **Quantified Decrease in Emissions from Traffic Operational Improvement** - An intersection reconstruction or signalization project that is projected to reduce delay and congestion.
- **Quantified Decrease in Emissions from Pedestrian and Bicycle Infrastructure** - A shared-use path that would enable increased walking and biking and decreased vehicle-miles traveled (VMT).
- **Quantified Decrease in Emissions from New/Additional Transit Service** - A bus or shuttle service that would enable increased transit ridership and decreased VMT
- **Quantified Decrease in Emissions from a Park and Ride Lot** A park-and-ride lot that would enable increased transit ridership/ increased ridesharing and decreased VMT
- **Quantified Decrease in Emissions from Bus Replacement**
A bus replacement that would directly reduce GHG emissions generated by that bus service.
- **Quantified Decrease in Emissions from Complete Streets Improvements**
Improvements to roadway networks that include the addition of bicycle and pedestrian accommodations where none were present before.
- **Quantified Decrease in Emissions from Other Improvement**

Quantified Increase in Emissions – Projects that would be expected to produce a measurable increase in emissions

Projects with Assumed Impact

No Assumed Impact/Negligible Impact on Emission - Projects that do not change the capacity or use of a facility (e.g. a resurfacing project that restores a roadway to its previous condition, or a bridge rehabilitation/replacement that restores the bridge to its previous condition) would be assumed to have no GHG impact.

Assumed Nominal Decrease in Emissions - Projects that would be expected to produce a minor decrease in emissions that cannot be calculated with any precision. Examples of such projects include roadway repaving or reconstruction projects that add a new sidewalk or new bike lanes. Such a project would enable increased travel by walking or bicycling, but there may be not data or analysis to support any projections of GHG impacts. These projects should be categorized as a Qualitative Decrease in Emissions.

Assumed Nominal Increase in Emissions - Projects that would be expected to produce a minor increase in emissions that cannot be calculated with any precision. The projects should be categorized as a Qualitative Increase in Emissions.

Regional Greenhouse Gas Impact Summary Tables for FFY 2018 – 2022 TIP

The following table (table 23) summarize the calculated quantitative and assumed qualitative impacts of the projects included in the regional FFY 2018 – 2022 TIP.

Table 23 Greenhouse Gas Summary Tables FFY 2018-2022

Project ID	Project Description	Total Cost	Analysis	GHG CO2 Impact (kg/yr)	Impact Description
604203	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	\$ 3,288,000	Quantified	3,406	Quantified Decrease in Emissions from Traffic Operational Improvement
604597	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	\$ 7,438,490	Quantified	17,566	Quantified Decrease in Emissions from Traffic Operational Improvement
603449	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	\$ 6,133,933	Quantified	3224.4	Quantified Decrease in Emissions from Complete Streets Project
604738	SOUTHAMPTON- RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3,801 FEET)	\$ 2,710,700	Quantified	1462.1	Quantified Decrease in Emissions from Complete Streets Project
607256	HOLYOKE- RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	\$ 3,758,081	Quantified	3226.5	Quantified Decrease in Emissions from Complete Streets Project
604962	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	\$ 1,140,089	Quantified	280	Quantified Decrease in Emissions from Complete Streets Project
607589	SPRINGFIELD- NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER THE CONNECTICUT RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES CONSTRUCTION OF NEW UNDERPASS S-24-044	\$ 7,062,111	Quantified	405	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
602911	PVTA P21 Express Service Between Union Station in Springfield and the Holyoke Transportation Center	\$ 500,000	Quantified	7,049	Quantified Decrease in Emissions from New/Additional Transit Service
2019			2018 Quantified Impact	36,619	

608411	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	\$ 1,934,400	Qualitative		Qualitative Decrease in Emissions, to be quantified
600513	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	\$ 2,323,443	Quantified	414	Quantified Decrease in Emissions from Complete Streets Project
607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	\$ 2,262,816	Qualitative		Qualitative Decrease in Emissions, to be quantified
604209	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES)	\$ 4,636,143	Quantified	7,843	Quantified Decrease in Emissions from Complete Streets Project
608084	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	\$ 1,305,886	Quantified	3,109	Quantified Decrease in Emissions from Complete Streets Project
608236	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL	\$ 7,152,411	Quantified	1,983	Quantified Decrease in Emissions from Traffic Operational Improvement
607474	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	\$ 3,313,440	Quantified	2,726	Quantified Decrease in Emissions from Complete Streets Project
607736	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO ABBEY STREET	\$ 6,001,387	Qualitative		Qualitative Decrease in Emissions, to be quantified
606555	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	\$ 2,874,895	Qualitative		Qualitative Decrease in Emissions, to be quantified
603783	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT,	\$ 6,532,895	Quantified	4,458	Quantified Decrease in Emissions from Bicycle and Pedestrian

	INCLUDES W-25,014, W-25-015, W-25-016, W-25-017, W-25-018 & W-25-019				Infrastructure
2020			2019 Quantified Impact	20,533	
607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	\$ 6,531,379	Quantified	1,290	Quantified Decrease in Emissions from Complete Streets Project
605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	\$ 5,742,834	Qualitative		Qualitative Decrease in Emissions, to be quantified
608718	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE AVENUE, COTTAGE AND HARVEY STREETS	\$ 2,229,021	Qualitative		Qualitative Decrease in Emissions, to be quantified
608782	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT COTTAGE STREET, INDUSTRY AVENUE AND ROBBINS ROAD	\$ 1,944,000	Qualitative		Qualitative Decrease in Emissions, to be quantified
608560	SPRINGFIELD- IMPROVEMENTS ON ST .JAMES AVENUE AT ST JAMES BOULEVARD AND CAREW STREET AT TAPLEY STREET	\$ 2,688,000	Qualitative		Qualitative Decrease in Emissions, to be quantified
606450	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	\$ 4,573,306	Qualitative		Qualitative Decrease in Emissions, to be quantified
602911	CHICOPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES), INCLUDES NEW BRIDGE C-13-060 OVER OVERFLOW CHANNEL	\$ 3,372,552	Quantified	73,253	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
2021			2020 Quantified Impact	74,543	
605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	\$ 19,097,166	Qualitative		Qualitative Decrease in Emissions, to be quantified
607502	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	\$ 3,702,674	Qualitative		Qualitative Decrease in Emissions, to be quantified

608577	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	\$ 2,281,664	Quantified	226,787	Quantified Decrease in Emissions from Traffic Operational Improvement
602912	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	\$ 2,273,910	Quantified	3,248	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
608157	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	\$ 3,968,300	Quantified	45,830	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
2022			2021 Quantified Impact	230,035	
608374	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	\$ 16,564,800	Qualitative		Qualitative Decrease in Emissions, to be quantified
604434	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	\$ 8,701,254	Quantified	205,299	Quantified Decrease in Emissions from Traffic Operational Improvement
608466	BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202	\$ 4,484,189	Quantified	3,812	Quantified Decrease in Emissions from Complete Streets Project
			2022 Quantified Impact	209,110	

Table 23 Transit Greenhouse Gas Summary Tables FFY 2018-2022 (Continued)

2018 Pioneer Valley Region Transit GHGs

MassDOT/FTA Project ID ▼	MassDOT/FTA Project Description ▼	Total Program med Funds ▼	GHG Analysis Type ▼	GHG CO ₂ Impact (kg/yr) ▼	GHG Impact Description ▼	Additional Information ▼
RTD0005861	Replacement Vans (4)	\$283,795	Quantified	244982.231	Quantified Decrease in Emissions from Bus Replacement	61245.55775675 per van
RTD0005827	Replace Mini Buses for Shuttles (3)	\$270,000	Quantified	201096.704	Quantified Decrease in Emissions from Bus Replacement	67032.234517 per minibus
RTD0006183	Replacement 40' Buses (4)	\$2,161,631	Quantified	51432.885	Quantified Decrease in Emissions from Bus Replacement	12858.2213575 Per Bus

2019 Pioneer Valley Region Transit GHGs

MassDOT/FTA Project ID ▼	MassDOT/FTA Project Description ▼	Total Program med Funds ▼	GHG Analysis Type ▼	GHG CO ₂ Impact (kg/yr) ▼	GHG Impact Description ▼	Additional Information ▼
RTD0006333	BUY REPLACEMENT VAN (7)	\$457,020	Quantified	308972.9246	Quantified Decrease in Emissions from Bus Replacement	44138.989224 per van
RTD0005864	Purchase Replacement Vans (27)	\$1,855,761	Quantified	1191752.709	Quantified Decrease in Emissions from Bus Replacement	44138.989224 per van

2020 Pioneer Valley Region Transit GHGs

MassDOT/FTA Project ID ▼	MassDOT/FTA Project Description ▼	Total Program med Funds ▼	GHG Analysis Type ▼	GHG CO ₂ Impact (kg/yr) ▼	GHG Impact Description ▼	Additional Information ▼
RTD0005843	Buy Replacement 40' Electric Bus (20)	\$4,465,462	Quantified	4726578.725	Quantified Decrease in Emissions from Bus Replacement	225075.1773825 Per Bus
RTD0005866	Purchase Replacement Vans (21)	\$1,471,337	Quantified	1004334.351	Quantified Decrease in Emissions from Bus Replacement	47825.44529525 Per Van

2021 Pioneer Valley Region Transit GHGs

MassDOT/FTA Project ID ▼	MassDOT/FTA Project Description ▼	Total Program med Funds ▼	GHG Analysis Type ▼	GHG CO ₂ Impact (kg/yr) ▼	GHG Impact Description ▼	Additional Information ▼
RTD0005847	Replacement 40-FT Non-Electric BUS (9)	\$7,096,817	Quantified	2025676.596	Quantified Decrease in Emissions from Bus Replacement	225075.1773825 Per Bus
RTD0005868	Buy replacement Vans (21)	\$1,490,799	Quantified	1004334.351	Quantified Decrease in Emissions from Bus Replacement	47825.44529525 Per Van
RTD0006325	Buy replacement Vans (15)	\$1,107,161	Quantified	717381.6794	Quantified Decrease in Emissions from Bus Replacement	47825.44529525 Per Van

2022 Pioneer Valley Region Transit GHGs

MassDOT/FTA Project ID ▼	MassDOT/FTA Project Description ▼	Total Program med Funds ▼	GHG Analysis Type ▼	GHG CO ₂ Impact (kg/yr) ▼	GHG Impact Description ▼	Additional Information ▼
RTD0006119	Purchase 40' Replacement Buses Electric (15)	\$2,602,324	Quantified	3376127.661	Quantified Decrease in Emissions from Bus Replacement	225075.1773825 Per Bus
RTD0006150	Replace 35' Buses (4)	\$5,401,894	Quantified	140584.2381	Quantified Decrease in Emissions from Bus Replacement	35146.0595235 Per Bus
RTD0006151	Replace mini Buses (4)	\$400,000	Quantified	268128.9381	Quantified Decrease in Emissions from Bus Replacement	67032.234517 per minibus
RTD0006324	Purchase Replacement Vans (15)	\$1,110,911	Quantified	717381.6794	Quantified Decrease in Emissions from Bus Replacement	47825.44529525 Per Van

APPENDICES

APPENDIX A: MassDOT Targets

Final 2018-2022 State Transportation Improvement Program Budgets

	2018	2019	2020	2021	2022
Base obligation authority	\$ 598.18	\$ 611.68	\$ 626.33	\$ 641.99	\$ 658.74
Planned redistribution request	\$ 50.00	\$ 50.00	\$ 50.00	\$ 50.00	\$ 50.00
Total obligation authority	\$ 648.18	\$ 661.68	\$ 676.33	\$ 691.99	\$ 708.74
ABP GANS Repayment	\$ (62.99)	\$ (66.02)	\$ (104.28)	\$ (107.70)	\$ (116.77)
Total federal funding with match	\$ 717.25	\$ 734.10	\$ 704.15	\$ 722.06	\$ 731.23
Planning / Adjustments / Pass-throughs					
Award adjustments, change orders, etc.	\$ 37.50	\$ 31.25	\$ 31.25	\$ 25.00	\$ 25.00
Metropolitan planning	\$ 10.84	\$ 10.84	\$ 10.84	\$ 10.84	\$ 10.84
State planning and research	\$ 17.53	\$ 17.53	\$ 17.53	\$ 17.53	\$ 17.53
Recreational trails	\$ 1.48	\$ 1.48	\$ 1.48	\$ 1.48	\$ 1.48
Railroad grade crossings	\$ 4.72	\$ 4.22	\$ 2.22	\$ 2.22	\$ 2.22
MassRides program	\$ -	\$ 3.33	\$ 3.33	\$ 3.33	\$ 3.33
subtotal of planning / adjustments / pass-throughs	\$ 72.08	\$ 68.65	\$ 66.65	\$ 60.40	\$ 60.40
Funding sources for regional priorities					
Congestion Mitigation Air Quality Improvements	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
Highway Safety Improvement Program	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00
Transportation Alternatives Program	\$ 5.73	\$ 5.73	\$ 5.73	\$ 5.73	\$ 5.73
Surface Transportation Program Block Grant	\$ 180.46	\$ 189.20	\$ 187.42	\$ 192.70	\$ 195.59
regional share % subtotal of funding for regional priorities	\$ 221.19	\$ 229.93	\$ 228.15	\$ 233.43	\$ 236.32
3.5596% Berkshire	\$ 7.87	\$ 8.18	\$ 8.12	\$ 8.31	\$ 8.41
42.9671% Boston	\$ 95.04	\$ 98.79	\$ 98.03	\$ 100.30	\$ 101.54
4.5851% Cape Cod	\$ 10.14	\$ 10.54	\$ 10.46	\$ 10.70	\$ 10.84
8.6901% Central Mass	\$ 19.22	\$ 19.98	\$ 19.83	\$ 20.29	\$ 20.54
2.5397% Franklin	\$ 5.62	\$ 5.84	\$ 5.79	\$ 5.93	\$ 6.00
0.3100% Martha's Vineyard	\$ 0.69	\$ 0.71	\$ 0.71	\$ 0.72	\$ 0.73
4.4296% Merrimack Valley	\$ 9.80	\$ 10.18	\$ 10.11	\$ 10.34	\$ 10.47
4.4596% Montachusett	\$ 9.86	\$ 10.25	\$ 10.17	\$ 10.41	\$ 10.54
0.2200% Nantucket	\$ 0.49	\$ 0.51	\$ 0.50	\$ 0.51	\$ 0.52
3.9096% Northern Middlesex	\$ 8.65	\$ 8.99	\$ 8.92	\$ 9.13	\$ 9.24
4.5595% Old Colony	\$ 10.09	\$ 10.48	\$ 10.40	\$ 10.64	\$ 10.78
10.8099% Pioneer Valley	\$ 23.91	\$ 24.86	\$ 24.66	\$ 25.23	\$ 25.55
8.9601% Southeastern Mass	\$ 19.82	\$ 20.60	\$ 20.44	\$ 20.92	\$ 21.17
	31%	31%	32%	32%	32%
Highway Division programs	\$ 423.98	\$ 435.52	\$ 409.35	\$ 428.23	\$ 434.51
Reliability programs	\$ 367.87	\$ 340.04	\$ 343.44	\$ 293.86	\$ 303.47
Bridge program	\$ 213.53	\$ 184.76	\$ 193.53	\$ 175.63	\$ 193.53
Inspections	\$ 17.90	\$ -	\$ 17.90	\$ -	\$ 17.90
Systematic maintenance	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00
On-system NHS (minimum)	\$ 118.63	\$ 120.00	\$ 118.63	\$ 118.63	\$ 118.63
On-System Non-NHS	\$ 31.38	\$ 19.13	\$ 11.38	\$ 11.38	\$ 11.38
Off-system	\$ 35.63	\$ 35.63	\$ 35.63	\$ 35.63	\$ 35.63
Interstate pavement program	\$ 51.78	\$ 30.72	\$ 41.76	\$ 27.49	\$ 25.46
Non-interstate DOT pavement program	\$ 67.16	\$ 86.50	\$ 81.48	\$ 67.55	\$ 63.93
Roadway improvements program	\$ 4.38	\$ 2.50	\$ 3.75	\$ 3.75	\$ 1.25
Safety improvements program	\$ 31.03	\$ 35.56	\$ 22.92	\$ 19.44	\$ 19.31
Modernization programs	\$ 36.11	\$ 50.08	\$ 40.92	\$ 99.37	\$ 96.04
ADA retrofits program	\$ -	\$ 3.00	\$ -	\$ 1.75	\$ -
Intersection improvements program	\$ 17.36	\$ 22.08	\$ 19.17	\$ 18.47	\$ 16.67
Intelligent Transportation Systems program	\$ 12.50	\$ 13.75	\$ 12.50	\$ 10.00	\$ 10.00
Roadway reconstruction program	\$ 6.25	\$ 11.25	\$ 9.25	\$ 69.15	\$ 69.38
Expansion programs	\$ 20.00	\$ 45.40	\$ 25.00	\$ 35.00	\$ 35.00
Bicycles and pedestrians program	\$ 20.00	\$ 45.40	\$ 25.00	\$ 35.00	\$ 35.00
Capacity program	\$ -	\$ -	\$ -	\$ -	\$ -
Total Budgeted Funding	\$ 717.25	\$ 734.10	\$ 704.15	\$ 722.06	\$ 731.23

Final 2018-2022 State Transportation Improvement Program Budgets

		Obligation authority <i>(federal aid only)</i>	Matching funds	Total funding <i>(federal aid + match)</i>		
2018	Base obligation authority	\$ 598,178,885				
	Planned redistribution request	\$ 50,000,000				
	Total Estimated Funding Available	\$ 648,178,885				
	ABP GANS Repayment	\$ (62,985,000)				
Total non-earmarked funding available		\$ 585,193,885	\$ 132,056,924	\$ 717,250,809		
Planning / Adjustments / Pass-throughs						
Award adjustments, change orders, etc.		\$ 30,000,000	\$ 7,500,000	\$ 37,500,000		
Metropolitan planning		\$ 8,670,263	\$ 2,167,566	\$ 10,837,829		
State planning and research		\$ 14,026,697	\$ 3,506,674	\$ 17,533,371		
Recreational trails		\$ 1,186,729	\$ 296,682	\$ 1,483,411		
Railroad grade crossings		\$ 4,250,000	\$ 472,222	\$ 4,722,222		
MassRides program		\$ -	\$ -	\$ -		
<i>subtotal of planning / adjustments / pass-throughs</i>		\$ 58,133,689	\$ 13,943,144	\$ 72,076,833		
Funding sources for regional priorities						
Congestion Mitigation Air Quality Improvements		\$ 20,000,000	\$ 5,000,000	\$ 25,000,000		
Highway Safety Improvement Program		\$ 9,000,000	\$ 1,000,000	\$ 10,000,000		
Transportation Alternatives Program		\$ 4,581,858	\$ 1,145,465	\$ 5,727,323		
Surface Transportation Program Block Grant		\$ 144,370,142	\$ 36,092,536	\$ 180,462,678		
<i>subtotal of funding for regional priorities</i>		\$ 177,952,000	\$ 43,238,000	\$ 221,190,000		
regional share %						
		CMAQ	HSIP	TAP	STPBG	Total
3.5596%	Berkshire	\$ 889,911	\$ 355,964	\$ -	\$ 6,627,701	\$ 7,873,577
42.9671%	Boston	\$ 10,741,776	\$ 4,296,710	\$ 2,929,085	\$ 77,071,365	\$ 95,038,936
4.5851%	Cape Cod	\$ 1,146,285	\$ 458,514	\$ 205,809	\$ 8,331,266	\$ 10,141,874
8.6901%	Central Mass	\$ 2,172,533	\$ 869,013	\$ 490,405	\$ 15,689,750	\$ 19,221,701
2.5397%	Franklin	\$ 634,937	\$ 253,975	\$ -	\$ 4,728,753	\$ 5,617,664
0.3100%	Martha's Vineyard	\$ 77,492	\$ 30,997	\$ -	\$ 577,131	\$ 685,620
4.4296%	Merrimack Valley	\$ 1,107,389	\$ 442,956	\$ 351,000	\$ 7,896,392	\$ 9,797,737
4.4596%	Montachusett	\$ 1,114,889	\$ 445,955	\$ 86,238	\$ 8,217,005	\$ 9,864,087
0.2200%	Nantucket	\$ 54,995	\$ 21,998	\$ -	\$ 409,577	\$ 486,569
3.9096%	Northern Middlesex	\$ 977,402	\$ 390,961	\$ 281,909	\$ 6,997,392	\$ 8,647,664
4.5595%	Old Colony	\$ 1,139,886	\$ 455,954	\$ 344,808	\$ 8,144,607	\$ 10,085,255
10.8099%	Pioneer Valley	\$ 2,702,480	\$ 1,080,992	\$ 545,638	\$ 19,581,351	\$ 23,910,460
8.9601%	Southeastern Mass	\$ 2,240,026	\$ 896,010	\$ 492,430	\$ 16,190,387	\$ 19,818,854
Highway Division programs		\$ 349,108,196	\$ 74,875,779	\$ 423,983,975		
Reliability programs		\$ 303,108,196	\$ 64,764,668	\$ 367,872,864		
Bridge program		\$ 170,824,000	\$ 42,706,000	\$ 213,530,000		
	<i>Inspections</i>	\$ 14,320,000	\$ 3,580,000	\$ 17,900,000		
	<i>Systematic maintenance</i>	\$ 8,000,000	\$ 2,000,000	\$ 10,000,000		
	<i>On-system NHS (minimum)</i>	\$ 94,900,000	\$ 23,725,000	\$ 118,625,000		
	<i>On-System Non-NHS</i>	\$ 25,104,000	\$ 6,276,000	\$ 31,380,000		
	<i>Off-system</i>	\$ 28,500,000	\$ 7,125,000	\$ 35,625,000		
Interstate pavement program		\$ 46,605,000	\$ 5,178,333	\$ 51,783,333		
Non-interstate DOT pavement program		\$ 54,879,196	\$ 12,277,557	\$ 67,156,753		
Roadway improvements program		\$ 3,500,000	\$ 875,000	\$ 4,375,000		
Safety improvements program		\$ 27,300,000	\$ 3,727,778	\$ 31,027,778		
Modernization programs		\$ 30,000,000	\$ 6,111,111	\$ 36,111,111		
ADA retrofits program		\$ -	\$ -	\$ -		
Intersection improvements program		\$ 15,000,000	\$ 2,361,111	\$ 17,361,111		
Intelligent Transportation Systems program		\$ 10,000,000	\$ 2,500,000	\$ 12,500,000		
Roadway reconstruction program		\$ 5,000,000	\$ 1,250,000	\$ 6,250,000		
Expansion programs		\$ 16,000,000	\$ 4,000,000	\$ 20,000,000		
Bicycles and pedestrians program		\$ 16,000,000	\$ 4,000,000	\$ 20,000,000		
Capacity program		\$ -	\$ -	\$ -		
Total Budgeted Funding		\$ 648,178,885	\$ 132,056,924	\$ 717,250,809		

Final 2018-2022 State Transportation Improvement Program Budgets

	Obligation authority <i>(federal aid only)</i>	Matching funds	Total funding <i>(federal aid + match)</i>
2019	Base obligation authority	\$ 611,680,644	
	Planned redistribution request	\$ 50,000,000	
	Total Estimated Funding Available	\$ 661,680,644	
	ABP GANS Repayment	\$ (66,015,000)	
Total non-earmarked funding available		\$ 595,665,644	\$ 138,437,244 \$ 734,102,889
Planning / Adjustments / Pass-throughs			
	Award adjustments, change orders, etc.	\$ 25,000,000	\$ 6,250,000 \$ 31,250,000
	Metropolitan planning	\$ 8,670,263	\$ 2,167,566 \$ 10,837,829
	State planning and research	\$ 14,026,697	\$ 3,506,674 \$ 17,533,371
	Recreational trails	\$ 1,186,729	\$ 296,682 \$ 1,483,411
	Railroad grade crossings	\$ 3,800,000	\$ 422,222 \$ 4,222,222
	MassRides program	\$ 2,660,000	\$ 665,000 \$ 3,325,000
	<i>subtotal of planning / adjustments / pass-throughs</i>	\$ 55,343,689	\$ 13,308,144 \$ 68,651,833
Funding sources for regional priorities			
	Congestion Mitigation Air Quality Improvements	\$ 20,000,000	\$ 5,000,000 \$ 25,000,000
	Highway Safety Improvement Program	\$ 9,000,000	\$ 1,000,000 \$ 10,000,000
	Transportation Alternatives Program	\$ 4,581,858	\$ 1,145,465 \$ 5,727,323
	Surface Transportation Program Block Grant	\$ 151,362,142	\$ 37,840,536 \$ 189,202,678
	<i>subtotal of funding for regional priorities</i>	\$ 184,944,000	\$ 44,986,000 \$ 229,930,000
regional share %			
	CMAQ	HSIP	TAP
	STPBG	Total	
3.5596%	Berkshire	\$ 889,911	\$ 355,964
42.9671%	Boston	\$ 10,741,776	\$ 2,929,085
4.5851%	Cape Cod	\$ 1,146,285	\$ 205,809
8.6901%	Central Mass	\$ 2,172,533	\$ 490,405
2.5397%	Franklin	\$ 634,937	\$ -
0.3100%	Martha's Vineyard	\$ 77,492	\$ -
4.4296%	Merrimack Valley	\$ 1,107,389	\$ 351,000
4.4596%	Montachusett	\$ 1,114,889	\$ 86,238
0.2200%	Nantucket	\$ 54,995	\$ -
3.9096%	Northern Middlesex	\$ 977,402	\$ 281,909
4.5595%	Old Colony	\$ 1,139,886	\$ 344,808
10.8099%	Pioneer Valley	\$ 2,702,480	\$ 545,638
8.9601%	Southeastern Mass	\$ 2,240,026	\$ 492,430
		\$ 896,010	\$ 16,973,500
		\$ 355,377,955	\$ 80,143,100 \$ 435,521,055
Highway Division programs			
Reliability programs		\$ 277,657,955	\$ 62,379,767 \$ 340,037,722
	Bridge program	\$ 147,807,955	\$ 36,951,989 \$ 184,759,944
	<i>Inspections</i>	\$ -	\$ - \$ -
	<i>Systematic maintenance</i>	\$ 8,000,000	\$ 2,000,000 \$ 10,000,000
	<i>On-system NHS (minimum)</i>	\$ 96,000,000	\$ 24,000,000 \$ 120,000,000
	<i>On-System Non-NHS</i>	\$ 15,307,955	\$ 3,826,989 \$ 19,134,944
	<i>Off-system</i>	\$ 28,500,000	\$ 7,125,000 \$ 35,625,000
	Interstate pavement program	\$ 27,650,000	\$ 3,072,222 \$ 30,722,222
	Non-interstate DOT pavement program	\$ 69,200,000	\$ 17,300,000 \$ 86,500,000
	Roadway improvements program	\$ 2,000,000	\$ 500,000 \$ 2,500,000
	Safety improvements program	\$ 31,000,000	\$ 4,555,556 \$ 35,555,556
Modernization programs		\$ 41,400,000	\$ 8,683,333 \$ 50,083,333
	ADA retrofits program	\$ 2,400,000	\$ 600,000 \$ 3,000,000
	Intersection improvements program	\$ 19,000,000	\$ 3,083,333 \$ 22,083,333
	Intelligent Transportation Systems program	\$ 11,000,000	\$ 2,750,000 \$ 13,750,000
	Roadway reconstruction program	\$ 9,000,000	\$ 2,250,000 \$ 11,250,000
Expansion programs		\$ 36,320,000	\$ 9,080,000 \$ 45,400,000
	Bicycles and pedestrians program	\$ 36,320,000	\$ 9,080,000 \$ 45,400,000
	Capacity program	\$ -	\$ - \$ -
Total Budgeted Funding		\$ 661,680,644	\$ 138,437,244 \$ 734,102,889

Final 2018-2022 State Transportation Improvement Program Budgets

		Obligation authority <i>(federal aid only)</i>	Matching funds	Total funding <i>(federal aid + match)</i>		
2020	Base obligation authority	\$ 626,330,019				
	Planned redistribution request	\$ 50,000,000				
	Total Estimated Funding Available	\$ 676,330,019				
	ABP GANS Repayment	\$ (104,275,000)				
Total non-earmarked funding available		\$ 572,055,019	\$ 132,099,079	\$ 704,154,098		
Planning / Adjustments / Pass-throughs						
Award adjustments, change orders, etc.		\$ 25,000,000	\$ 6,250,000	\$ 31,250,000		
Metropolitan planning		\$ 8,670,263	\$ 2,167,566	\$ 10,837,829		
State planning and research		\$ 14,026,697	\$ 3,506,674	\$ 17,533,371		
Recreational trails		\$ 1,186,729	\$ 296,682	\$ 1,483,411		
Railroad grade crossings		\$ 2,000,000	\$ 222,222	\$ 2,222,222		
MassRides program		\$ 2,660,000	\$ 665,000	\$ 3,325,000		
<i>subtotal of planning / adjustments / pass-throughs</i>		\$ 53,543,689	\$ 13,108,144	\$ 66,651,833		
Funding sources for regional priorities						
Congestion Mitigation Air Quality Improvements		\$ 20,000,000	\$ 5,000,000	\$ 25,000,000		
Highway Safety Improvement Program		\$ 9,000,000	\$ 1,000,000	\$ 10,000,000		
Transportation Alternatives Program		\$ 4,581,858	\$ 1,145,465	\$ 5,727,323		
Surface Transportation Program Block Grant		\$ 149,938,142	\$ 37,484,536	\$ 187,422,678		
<i>subtotal of funding for regional priorities</i>		\$ 183,520,000	\$ 44,630,000	\$ 228,150,000		
regional share %						
		CMAQ	HSIP	TAP	STPBG	Total
3.5596%	Berkshire	\$ 889,911	\$ 355,964	\$ -	\$ 6,875,452	\$ 8,121,328
42.9671%	Boston	\$ 10,741,776	\$ 4,296,710	\$ 2,929,085	\$ 80,061,875	\$ 98,029,447
4.5851%	Cape Cod	\$ 1,146,285	\$ 458,514	\$ 205,809	\$ 8,650,392	\$ 10,461,000
8.6901%	Central Mass	\$ 2,172,533	\$ 869,013	\$ 490,405	\$ 16,294,583	\$ 19,826,534
2.5397%	Franklin	\$ 634,937	\$ 253,975	\$ -	\$ 4,905,519	\$ 5,794,430
0.3100%	Martha's Vineyard	\$ 77,492	\$ 30,997	\$ -	\$ 598,705	\$ 707,194
4.4296%	Merrimack Valley	\$ 1,107,389	\$ 442,956	\$ 351,000	\$ 8,204,689	\$ 10,106,034
4.4596%	Montachusett	\$ 1,114,889	\$ 445,955	\$ 86,238	\$ 8,527,390	\$ 10,174,472
0.2200%	Nantucket	\$ 54,995	\$ 21,998	\$ -	\$ 424,888	\$ 501,880
3.9096%	Northern Middlesex	\$ 977,402	\$ 390,961	\$ 281,909	\$ 7,269,501	\$ 8,919,773
4.5595%	Old Colony	\$ 1,139,886	\$ 455,954	\$ 344,808	\$ 8,461,951	\$ 10,402,600
10.8099%	Pioneer Valley	\$ 2,702,480	\$ 1,080,992	\$ 545,638	\$ 20,333,721	\$ 24,662,830
8.9601%	Southeastern Mass	\$ 2,240,026	\$ 896,010	\$ 492,430	\$ 16,814,010	\$ 20,442,477
Highway Division programs		\$ 334,991,330	\$ 74,360,935	\$ 409,352,265		
Reliability programs		\$ 280,591,330	\$ 62,844,268	\$ 343,435,598		
Bridge program		\$ 154,820,000	\$ 38,705,000	\$ 193,525,000		
	<i>Inspections</i>	\$ 14,320,000	\$ 3,580,000	\$ 17,900,000		
	<i>Systematic maintenance</i>	\$ 8,000,000	\$ 2,000,000	\$ 10,000,000		
	<i>On-system NHS (minimum)</i>	\$ 94,900,000	\$ 23,725,000	\$ 118,625,000		
	<i>On-System Non-NHS</i>	\$ 9,100,000	\$ 2,275,000	\$ 11,375,000		
	<i>Off-system</i>	\$ 28,500,000	\$ 7,125,000	\$ 35,625,000		
Interstate pavement program		\$ 37,585,665	\$ 4,176,185	\$ 41,761,850		
Non-interstate DOT pavement program		\$ 65,185,665	\$ 16,296,416	\$ 81,482,081		
Roadway improvements program		\$ 3,000,000	\$ 750,000	\$ 3,750,000		
Safety improvements program		\$ 20,000,000	\$ 2,916,667	\$ 22,916,667		
Modernization programs		\$ 34,400,000	\$ 6,516,667	\$ 40,916,667		
ADA retrofits program		\$ -	\$ -	\$ -		
Intersection improvements program		\$ 17,000,000	\$ 2,166,667	\$ 19,166,667		
Intelligent Transportation Systems program		\$ 10,000,000	\$ 2,500,000	\$ 12,500,000		
Roadway reconstruction program		\$ 7,400,000	\$ 1,850,000	\$ 9,250,000		
Expansion programs		\$ 20,000,000	\$ 5,000,000	\$ 25,000,000		
Bicycles and pedestrians program		\$ 20,000,000	\$ 5,000,000	\$ 25,000,000		
Capacity program		\$ -	\$ -	\$ -		
Total Budgeted Funding		\$ 676,330,019	\$ 132,099,079	\$ 704,154,098		

Final 2018-2022 State Transportation Improvement Program Budgets

		Obligation authority <i>(federal aid only)</i>	Matching funds	Total funding <i>(federal aid + match)</i>		
2021	Base obligation authority	\$ 641,988,270				
	Planned redistribution request	\$ 50,000,000				
	Total Estimated Funding Available	\$ 691,988,270				
	ABP GANS Repayment	\$ (107,700,000)				
Total non-earmarked funding available		\$ 584,288,270	\$ 137,774,209	\$ 722,062,479		
Planning / Adjustments / Pass-throughs						
	Award adjustments, change orders, etc.	\$ 20,000,000	\$ 5,000,000	\$ 25,000,000		
	Metropolitan planning	\$ 8,670,263	\$ 2,167,566	\$ 10,837,829		
	State planning and research	\$ 14,026,697	\$ 3,506,674	\$ 17,533,371		
	Recreational trails	\$ 1,186,729	\$ 296,682	\$ 1,483,411		
	Railroad grade crossings	\$ 2,000,000	\$ 222,222	\$ 2,222,222		
	MassRides program	\$ 2,660,000	\$ 665,000	\$ 3,325,000		
	<i>subtotal of planning / adjustments / pass-throughs</i>	\$ 48,543,689	\$ 11,858,144	\$ 60,401,833		
Funding sources for regional priorities						
	Congestion Mitigation Air Quality Improvements	\$ 20,000,000	\$ 5,000,000	\$ 25,000,000		
	Highway Safety Improvement Program	\$ 9,000,000	\$ 1,000,000	\$ 10,000,000		
	Transportation Alternatives Program	\$ 4,581,858	\$ 1,145,465	\$ 5,727,323		
	Surface Transportation Program Block Grant	\$ 154,162,142	\$ 38,540,536	\$ 192,702,678		
	<i>subtotal of funding for regional priorities</i>	\$ 187,744,000	\$ 45,686,000	\$ 233,430,000		
	regional share %					
		CMAQ	HSIP	TAP	STPBG	Total
3.5596%	Berkshire	\$ 889,911	\$ 355,964	\$ -	\$ 7,063,402	\$ 8,309,277
42.9671%	Boston	\$ 10,741,776	\$ 4,296,710	\$ 2,929,085	\$ 82,330,538	\$ 100,298,110
4.5851%	Cape Cod	\$ 1,146,285	\$ 458,514	\$ 205,809	\$ 8,892,488	\$ 10,703,096
8.6901%	Central Mass	\$ 2,172,533	\$ 869,013	\$ 490,405	\$ 16,753,422	\$ 20,285,373
2.5397%	Franklin	\$ 634,937	\$ 253,975	\$ -	\$ 5,039,618	\$ 5,928,529
0.3100%	Martha's Vineyard	\$ 77,492	\$ 30,997	\$ -	\$ 615,071	\$ 723,561
4.4296%	Merrimack Valley	\$ 1,107,389	\$ 442,956	\$ 351,000	\$ 8,438,570	\$ 10,339,915
4.4596%	Montachusett	\$ 1,114,889	\$ 445,955	\$ 86,238	\$ 8,762,855	\$ 10,409,937
0.2200%	Nantucket	\$ 54,995	\$ 21,998	\$ -	\$ 436,502	\$ 513,495
3.9096%	Northern Middlesex	\$ 977,402	\$ 390,961	\$ 281,909	\$ 7,475,928	\$ 9,126,200
4.5595%	Old Colony	\$ 1,139,886	\$ 455,954	\$ 344,808	\$ 8,702,695	\$ 10,643,344
10.8099%	Pioneer Valley	\$ 2,702,480	\$ 1,080,992	\$ 545,638	\$ 20,904,485	\$ 25,233,594
8.9601%	Southeastern Mass	\$ 2,240,026	\$ 896,010	\$ 492,430	\$ 17,287,104	\$ 20,915,571
Highway Division programs		\$ 348,000,581	\$ 80,230,065	\$ 428,230,646		
Reliability programs		\$ 239,280,581	\$ 54,577,842	\$ 293,858,423		
	Bridge program	\$ 140,500,000	\$ 35,125,000	\$ 175,625,000		
	<i>Inspections</i>	\$ -	\$ -	\$ -		
	<i>Systematic maintenance</i>	\$ 8,000,000	\$ 2,000,000	\$ 10,000,000		
	<i>On-system NHS (minimum)</i>	\$ 94,900,000	\$ 23,725,000	\$ 118,625,000		
	<i>On-System Non-NHS</i>	\$ 9,100,000	\$ 2,275,000	\$ 11,375,000		
	<i>Off-system</i>	\$ 28,500,000	\$ 7,125,000	\$ 35,625,000		
	Interstate pavement program	\$ 24,744,581	\$ 2,749,398	\$ 27,493,979		
	Non-interstate DOT pavement program	\$ 54,036,000	\$ 13,509,000	\$ 67,545,000		
	Roadway improvements program	\$ 3,000,000	\$ 750,000	\$ 3,750,000		
	Safety improvements program	\$ 17,000,000	\$ 2,444,444	\$ 19,444,444		
Modernization programs		\$ 80,720,000	\$ 18,652,222	\$ 99,372,222		
	ADA retrofits program	\$ 1,400,000	\$ 350,000	\$ 1,750,000		
	Intersection improvements program	\$ 16,000,000	\$ 2,472,222	\$ 18,472,222		
	Intelligent Transportation Systems program	\$ 8,000,000	\$ 2,000,000	\$ 10,000,000		
	Roadway reconstruction program	\$ 55,320,000	\$ 13,830,000	\$ 69,150,000		
Expansion programs		\$ 28,000,000	\$ 7,000,000	\$ 35,000,000		
	Bicycles and pedestrians program	\$ 28,000,000	\$ 7,000,000	\$ 35,000,000		
	Capacity program	\$ -	\$ -	\$ -		
Total Budgeted Funding		\$ 691,988,270	\$ 137,774,209	\$ 722,062,479		

Final 2018-2022 State Transportation Improvement Program Budgets

		Obligation authority <i>(federal aid only)</i>	Matching funds	Total funding <i>(federal aid + match)</i>		
2022	Base obligation authority	\$ 658,744,163				
	Planned redistribution request	\$ 50,000,000				
	Total Estimated Funding Available	\$ 708,744,163				
	ABP GANS Repayment	\$ (116,770,949)				
Total non-earmarked funding available		\$ 591,973,214	\$ 139,255,869	\$ 731,229,083		
Planning / Adjustments / Pass-throughs						
Award adjustments, change orders, etc.		\$ 20,000,000	\$ 5,000,000	\$ 25,000,000		
Metropolitan planning		\$ 8,670,263	\$ 2,167,566	\$ 10,837,829		
State planning and research		\$ 14,026,697	\$ 3,506,674	\$ 17,533,371		
Recreational trails		\$ 1,186,729	\$ 296,682	\$ 1,483,411		
Railroad grade crossings		\$ 2,000,000	\$ 222,222	\$ 2,222,222		
MassRides program		\$ 2,660,000	\$ 665,000	\$ 3,325,000		
<i>subtotal of planning / adjustments / pass-throughs</i>		\$ 48,543,689	\$ 11,858,144	\$ 60,401,833		
Funding sources for regional priorities						
Congestion Mitigation Air Quality Improvements		\$ 20,000,000	\$ 5,000,000	\$ 25,000,000		
Highway Safety Improvement Program		\$ 9,000,000	\$ 1,000,000	\$ 10,000,000		
Transportation Alternatives Program		\$ 4,581,858	\$ 1,145,465	\$ 5,727,323		
Surface Transportation Program Block Grant		\$ 156,474,142	\$ 39,118,536	\$ 195,592,678		
<i>subtotal of funding for regional priorities</i>		\$ 190,056,000	\$ 46,264,000	\$ 236,320,000		
regional share %						
		CMAQ	HSIP	TAP	STPBG	Total
3.5596%	Berkshire	\$ 889,911	\$ 355,964	\$ -	\$ 7,166,275	\$ 8,412,151
42.9671%	Boston	\$ 10,741,776	\$ 4,296,710	\$ 2,929,085	\$ 83,572,288	\$ 101,539,859
4.5851%	Cape Cod	\$ 1,146,285	\$ 458,514	\$ 205,809	\$ 9,024,998	\$ 10,835,606
8.6901%	Central Mass	\$ 2,172,533	\$ 869,013	\$ 490,405	\$ 17,004,566	\$ 20,536,518
2.5397%	Franklin	\$ 634,937	\$ 253,975	\$ -	\$ 5,113,017	\$ 6,001,928
0.3100%	Martha's Vineyard	\$ 77,492	\$ 30,997	\$ -	\$ 624,030	\$ 732,519
4.4296%	Merrimack Valley	\$ 1,107,389	\$ 442,956	\$ 351,000	\$ 8,566,584	\$ 10,467,929
4.4596%	Montachusett	\$ 1,114,889	\$ 445,955	\$ 86,238	\$ 8,891,736	\$ 10,538,818
0.2200%	Nantucket	\$ 54,995	\$ 21,998	\$ -	\$ 442,860	\$ 519,852
3.9096%	Northern Middlesex	\$ 977,402	\$ 390,961	\$ 281,909	\$ 7,588,916	\$ 9,239,188
4.5595%	Old Colony	\$ 1,139,886	\$ 455,954	\$ 344,808	\$ 8,834,466	\$ 10,775,114
10.8099%	Pioneer Valley	\$ 2,702,480	\$ 1,080,992	\$ 545,638	\$ 21,216,891	\$ 25,546,001
8.9601%	Southeastern Mass	\$ 2,240,026	\$ 896,010	\$ 492,430	\$ 17,546,051	\$ 21,174,518
Highway Division programs		\$ 353,373,525	\$ 81,133,725	\$ 434,507,250		
Reliability programs		\$ 246,873,525	\$ 56,592,058	\$ 303,465,583		
Bridge program		\$ 154,820,000	\$ 38,705,000	\$ 193,525,000		
<i>Inspections</i>		\$ 14,320,000	\$ 3,580,000	\$ 17,900,000		
<i>Systematic maintenance</i>		\$ 8,000,000	\$ 2,000,000	\$ 10,000,000		
<i>On-system NHS (minimum)</i>		\$ 94,900,000	\$ 23,725,000	\$ 118,625,000		
<i>On-System Non-NHS</i>		\$ 9,100,000	\$ 2,275,000	\$ 11,375,000		
<i>Off-system</i>		\$ 28,500,000	\$ 7,125,000	\$ 35,625,000		
Interstate pavement program		\$ 22,909,525	\$ 2,545,503	\$ 25,455,028		
Non-interstate DOT pavement program		\$ 51,144,000	\$ 12,786,000	\$ 63,930,000		
Roadway improvements program		\$ 1,000,000	\$ 250,000	\$ 1,250,000		
Safety improvements program		\$ 17,000,000	\$ 2,305,556	\$ 19,305,556		
Modernization programs		\$ 78,500,000	\$ 17,541,667	\$ 96,041,667		
ADA retrofits program		\$ -	\$ -	\$ -		
Intersection improvements program		\$ 15,000,000	\$ 1,666,667	\$ 16,666,667		
Intelligent Transportation Systems program		\$ 8,000,000	\$ 2,000,000	\$ 10,000,000		
Roadway reconstruction program		\$ 55,500,000	\$ 13,875,000	\$ 69,375,000		
Expansion programs		\$ 28,000,000	\$ 7,000,000	\$ 35,000,000		
Bicycles and pedestrians program		\$ 28,000,000	\$ 7,000,000	\$ 35,000,000		
Capacity program		\$ -	\$ -	\$ -		
Total Budgeted Funding		\$ 708,744,163	\$ 139,255,869	\$ 731,229,083		

APPENDIX B: Metropolitan Planning Area (MPA) State and Local Consulted Agencies

As required in MAP-21, the Moving Ahead for Progress in the 21st Century Act (P.L. 112-141) consulted with agencies and officials responsible for other planning activities within the MPA (metropolitan planning area) that are affected by transportation (including State and local planned growth, economic development, environmental protection, airport operations, or freight movements) or coordinate its planning process (to the maximum extent practicable) with such planning activities

PVMPO fulfilled these requirements through the processes tied to the Joint Transportation Committee (JTC). Listed below are two tables, table 25 list agencies with transportation interest in the Metropolitan Planning Area (MPA) that were contacted for the purpose of consultation while developing the TIP. Table 26 lists the agencies from table 26 which responded and coordinated meetings were held during TIP development.

Table 25: Agencies Contacted

Agency	Agency Location
Westfield River Wild and Scenic Advisory Committee	Haydenville
MassDOT - Office of Transportation Planning	Boston
FEDERAL HIGHWAY ADMIN	Cambridge
US EPA	Boston
MassDOT	Boston
COUNCIL ON AGING	Granby
AIR QUALITY CONTROL (DEP)	Boston
FEDERAL TRANSIT ADMIN	Cambridge
MassDOT Highway Division District 1& 2	Northampton/Lenox
OFFICE OF SOCIAL CONCERN	Springfield
Economic Development Council of Western Mass	Springfield
PETER PAN BUS LINES, INC.	Springfield
Pioneer Valley Transit Authority (PVTA)	Springfield
BARNES AIRPORT	Westfield
Pioneer Valley RR	Westfield
Bike/Ped Community (MassBike)	Williamsburg
UMASS Transit	Amherst
Columbia Greenway Rail Trail Committee	Westfield

These agencies are solicited to comment and provide relevant information during TIP development and are invited to attend all meetings and workshop involving project evaluation. Agendas and information in regards the TIP and its development are distributed by mail prior to meetings as outlined in the Public Participation Plan for the Pioneer Valley.

Table 26: Agencies Providing Consultation)

MassDOT	Boston
Pioneer Valley Transit Authority (PVTA)	Springfield

APPENDIX C: FAST Act Performance Management Information

The FHWA and FTA are jointly issuing this final rule to update the regulations governing the development of metropolitan transportation plans (MTP) and programs for urbanized areas, long-range statewide transportation plans and programs, and the congestion management process as well as revisions related to the use of and reliance on planning products developed during the planning process for project development and the environmental review process. The changes reflect the passage of the Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Fixing America's Surface Transportation (FAST) Act. The MAP-21 continues many provisions related to transportation planning from prior laws; however, it introduces transformational changes and adds some new provisions. The FAST Act makes minor edits to existing provisions. The changes make the regulations consistent with current statutory requirements and implement the following: A new mandate for State departments of transportation (hereafter referred to simply as "States") and metropolitan planning organizations (MPO) to take a performance-based approach to planning and programming; a new emphasis on the nonmetropolitan transportation planning process, by requiring States to have a higher level of involvement with nonmetropolitan local officials and providing a process for the creation of regional transportation planning organizations (RTPO); a structural change to the membership of the larger MPOs; a new framework for voluntary scenario planning; new authority for the integration of the planning and environmental review processes; and a process for programmatic mitigation plans.²

PVPC accomplishes these requirements through the recent update to the Transportation Evaluation Criteria (TEC) for the Pioneer Valley MPO. The table below shows the relationship between FAST act planning factors and our TEC criteria. The TEC criteria is mainly based of PVPC various data driven process which include Pavement, Congestion, Safety as well as other readily available data.

Fast Act Planning Factors Relationship to the Transportation Evaluation Criteria (TEC)

Factor	Fast Act 10 Planning Factors Description	TEC Scoring Criteria
1	Support the economic vitality of the metropolitan areas, especially by enabling global competitiveness, productivity, and efficiency.	Smart Growth and Economic Development, System Preservation, Modernization and Efficiency
2	Increase the safety of the transportation system for motorized and non-motorized users.	Safety and Security, Quality of Life
3	Increase the security of the transportation system for motorized and non-motorized users.	Safety and Security, Quality of Life
4	Increase the accessibility and mobility of people and for freight.	Mobility, Smart Growth and Economic Development
5	Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.	Environment and Climate Change, Quality of Life, Livability, Smart Growth and Economic Development

² <https://www.federalregister.gov/articles/2016/05/27/2016-11964/statewide-and-nonmetropolitan-transportation-planning-metropolitan-transportation-planning#h-9>

6	Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.	Smart Growth and Economic Development, Mobility
7	Promote efficient system management and operation.	System Preservation, Modernization and Efficiency, Mobility
8	Emphasize the preservation of the existing transportation system.	System Preservation, Modernization and Efficiency
9	Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.	Environment and Climate Change
10	Enhancing travel and tourism.	Mobility, Quality of Life

APPENDIX D: Planning Acronyms

3C - Continuing, Comprehensive, and Cooperative Planning Process

AADT - Average Annual Daily Traffic

AASHTO - American Association of State Highway and Transportation Officials

ADA - Americans with Disabilities Act (1990)

ADT - Average Daily Traffic

AFV - Alternative Fuel Vehicles

ATR - Automatic Traffic Recorder

AVR - Average Vehicle Ridership

BAPAC - Barnes Aquifer Protection Advisory Committee

BID - Business Improvement District

BLOS - Bicycle Level of Service

BMP - Best Management Practice

BMS - Bridge Management System

CAAA - Clean Air Act Amendments of 1990

CBD - Central Business District

CDBG - Community Development Block Grant

CDC - Centers for Disease Control

CEDS - Comprehensive Economic Development Strategy

CIP - Capital Improvements Plan (or Program)

CMAQ - Congestion Mitigation and Air Quality Improvement Program

CMP - Congestion Management Process

CNG - Compressed Natural Gas

CO - Carbon Monoxide

COG - Council of Governments

Comm-PASS - Commonwealth Procurement Access and Solicitation System

CPA - Community Preservation Act

CPTC - Citizen Planner Training Collaborative

CRCOG - Capitol Region Council of Governments

CSO - Combined Sewer Overflow

DCR - Department of Conservation and Recreation

DEP - Department of Environmental Protection

DHCD - Department of Housing and Community Development

DLTA - Direct Local Technical Assistance

DOT - Department of Transportation

DPW - Department of Public Works

E.O. - Executive Order

EDC - Economic Development Council

EIR - Environmental Impact Report

EIS - Environmental Impact Statement

EJ - Environmental Justice

ENF - Environmental Notification Form

EOA - Economic Opportunity Area

EOEEA - Executive Office of Energy and Environmental Affairs

EPA - Environmental Protection Agency

FA - Federal Aid

FAST - Fixing America's Surface Transportation Act

FC - Functional Classification (of roadways)

FHA - Federal Housing Administration

FHWA - Federal Highway Administration

FRCOG - Franklin Regional Council of Governments

FRTA - Franklin Regional Transit Authority

FTA - Federal Transit Administration

GHG - Greenhouse Gas

GIS - Geographic Information System

GPS - Global Positioning System

HOV - High Occupancy Vehicle

HUD - U.S. Department of Housing and Urban Development

ISTEA - Intermodal Surface Transportation Efficiency Act of 1991

ITS - Intelligent Transportation Systems

JARC - Job Access and Reverse Commute

JLSB - Jacob's Ladder Scenic Byway

JLT - Jacob's Ladder Trail

JTC - Joint Transportation Committee

LEP - Limited English Proficiency

LOS - Level of Service

LPMS - Local Pavement Management System

LRV - Light Rail Vehicle

LTA - Local Technical Assistance

M.G.L. - Massachusetts General Laws

MAP 21 - Moving Ahead for Progress in the 21st Century

MARPA - Massachusetts Association of Regional Planning Agencies

MassDOT - Massachusetts Department of Transportation

MassGIS - Massachusetts Geographic Information System

MEPA - Massachusetts Environmental Policy Act

MMA - Massachusetts Municipal Association

MOA - Memorandum of Agreement

MOU - Memorandum of Understanding

MPO - Metropolitan Planning Organization

MUTCD - Manual of Uniform Traffic Control Devices

NFA - Non-Federal Aid

NHS - National Highway System

NHTSA - National Highway Traffic Safety Administration

NOx - Nitrogen Oxide

NTSB - National Transportation Safety Board

OCI - Overall Condition Index (Pavement)

PCI - Pavement Condition Index

PL - [Metropolitan] Planning Funds

PMS - Pavement Management System

PMUG - Pavement Management Users Group

PPP - Public Participation Process

PVTA - Pioneer Valley Transit Authority

QVCD - Quabog Valley Community Development Corp.

REB - Regional Employment Board
RIF - Roadway Inventory Files
RPA - Regional Planning Agency
RTA - Regional Transit Authority
RTP - Regional Transportation Plan
SAFETEA-LU - Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users
SBA - Small Business Administration
SIP - State Implementation Plan (for air quality)
SKC - Sustainable Knowledge Corridor
SOV - Single Occupancy Vehicle
SPR - Statewide Planning and Research Funds
STIP - Statewide Transportation Improvement Program
STP - Surface Transportation Program
TCSP - Transportation and Community System Preservation [Pilot Program]
TDM - Transportation Demand Management
TEA-21 - Transportation Equity Act for the 21st Century
TIP - Transportation Improvement Program
TMC - Turning Movement Count
TND - Traditional Neighborhood District
TOD - Transit Oriented Design (or Development)
TRB - Transportation Research Board
TRO - Trip Reduction Ordinance
TSM - Transportation Systems Management
UMass - University of Massachusetts
UPWP - Unified Planning Work Program
VMT - Vehicle Miles Traveled
VOC - Volatile Organic Compound
VOR - Vehicle Occupancy Rate
WBE - Women-owned Business Enterprises
WRWA - Westfield River Watershed Association
WRWSAC - Westfield River Wild & Scenic Advisory Committee
ZBA - Zoning Board of Adjustment (or Appeals)