

TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

2016 - 2019

FOR THE
METROPOLITAN PLANNING ORGANIZATION
PIONEER VALLEY REGION,
MASSACHUSETTS

Endorsed: , 2015



This document was prepared under contract with the Massachusetts Department of Transportation. This report was funded in part through grant[s] from the Federal Highway Administration [and Federal Transit Administration], U.S. Department of Transportation. The views and opinions of the authors [or agency] expressed herein do not necessarily state or reflect those of the U. S. Department of Transportation

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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.

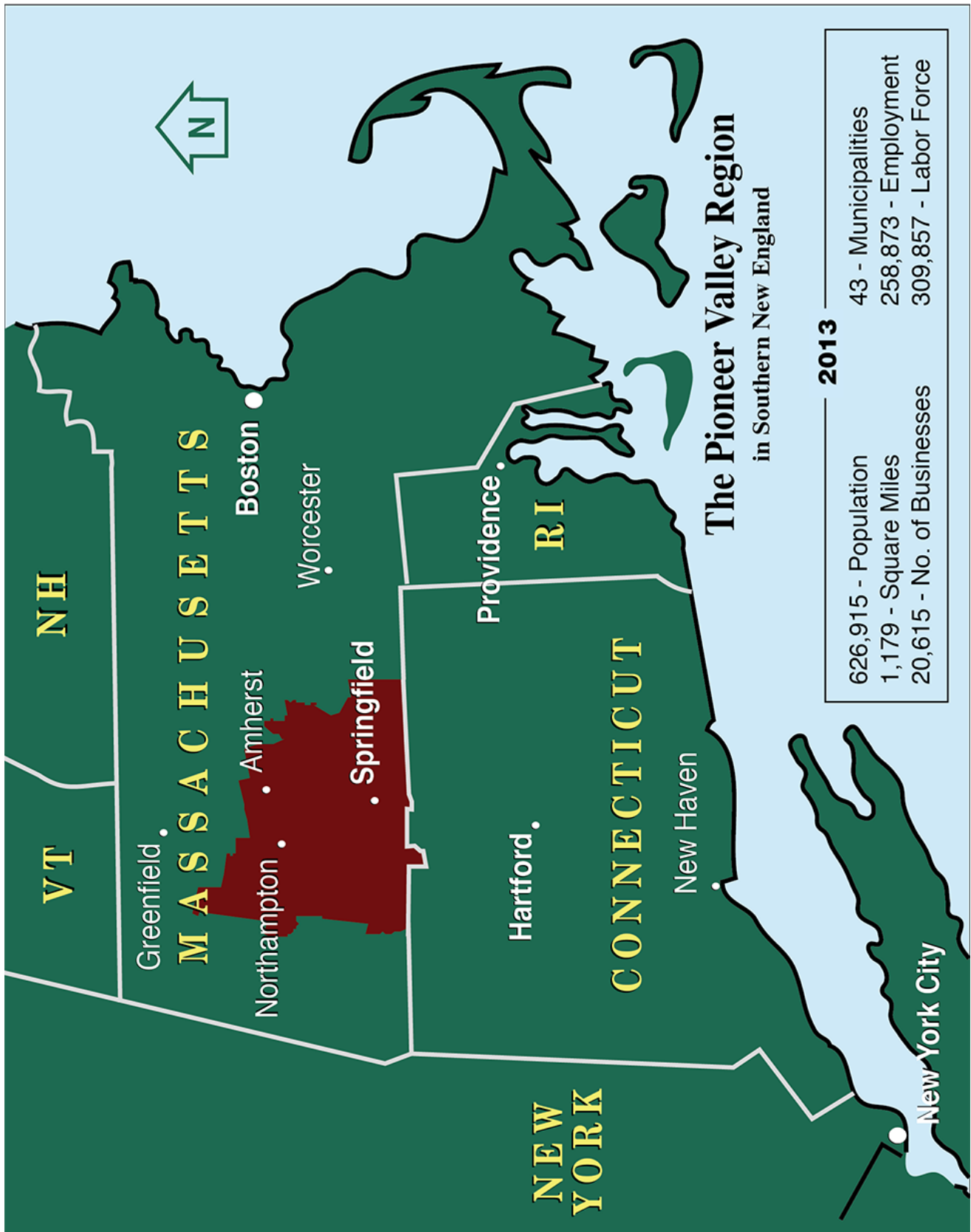
TIP Format and MPO Endorsement

The FFY 2016-2019 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 2016-2019 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 2016 and beyond. In response to this commitment, Pioneer Valley local officials in cooperation with regional and state officials from the MassHighway department and 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 2016. 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 four-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

MAP-21, the Moving Ahead for Progress in the 21st Century Act (P.L. 112-141), was signed into law on July 6, 2012. Funding surface transportation programs at over \$105 billion for fiscal years (FY) 2013 and 2014, MAP-21 replaces SAFTEA-LU which was enacted in 2005. The 8 planning factors defined in SAFTEA-LU have been carried over into MAP-21.

MAP-21 is a milestone for the U.S. economy and the Nation’s surface transportation program. By transforming the policy and programmatic framework for investments to guide the system’s growth and development, MAP-21 creates a streamlined and performance-based surface transportation program and builds on many of the highway, transit, bike, and pedestrian programs and policies established in 1991.¹ (See Appendix E for additional information)

MAP-21 Performance Measures:

- Pavement conditions on the Interstate System and on remainder of the National Highway System (NHS)
- Performance of the Interstate System and the remainder of the NHS
- Bridge condition on the NHS
- Fatalities and serious injuries-both number and rate per vehicle mile traveled-on all public roads
- Traffic congestion
- On-road mobile source emissions
- Freight movement on the Interstate System

¹ <http://www.fhwa.dot.gov/map21/>

All projects in the TIP come from the conforming 2012 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 2016 through 2019 (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 2016-2019 TIP is only required for Carbon monoxide. Further details and background information are provided on page 91.

DEVELOPMENT OF THE TIP

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 Tinlin	Administrator of the Massachusetts Department of Transportation Highway Division
Walter Gunn	Chairman of the Pioneer Valley Executive Committee
John Musante	Chairman of the Pioneer Valley Transit Authority Advisory Board
Mayor Domenic Sarno	Mayor of Springfield
Mayor Alexander Morse	Mayor of Holyoke
Mayor Richard Cohen	Mayor of Agawam
Mayor David Narkewicz	Mayor of Northampton
George Archible	Belchertown Board of Selectmen
Marcus Boyle	Hatfield Board of Selectmen

Alternates

Mayor Richard Kos	Mayor of Chicopee
Mayor Daniel M. Knapik	Mayor of Westfield
Vacant	Hadley Board of Selectmen
Vacant	Palmer Town Council
Vacant	Huntington Board of Selectmen

Ex-Officio

Pamela Stephenson	Federal Highway Administration (non-voting member)
Mary Beth Mello	Federal Transit Administration (non-voting member)
Steven Roberts	Economic Development Council of Western Massachusetts (non-voting member)
Mary MacInnes	Administrator of the Pioneer Valley Transit Authority (non-voting member)
James Czach	Chairman – Pioneer Valley Joint Transportation Committee (non-voting member)

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 to carry out the cooperative process during TIP development. The Joint Transportation Committee (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 MHD 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)

The Pioneer Valley Congestion Management Process (CMP) formerly the Congestion Management System (CMS) is an on-going, systematic process designed to improve transportation in the region by providing information on the location, severity and extent of

congested corridors and intersections. Findings of the CMP report are used to assist in the selection of projects to be prioritized for TIP consideration, as well as assist in the prioritization of projects to be included in this document.

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>

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 (See Appendix B). This process is used as a management tool to identify projects of regional priority and program them accordingly in the TIP.

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.mhd.state.ma.us/default.asp?pgid=content/projectReview&sid=about>

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

For the purposes of project selection and programming, amendment or adjustment to the TIP can be conducted at any time. Amendment of the TIP consists of addition of a project not previously programmed, the advancement of a Year 3 project through Year 4 or a significant adjustment to project costs. Amendment 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 Program (STP) - This program is for the maintenance and construction of the federal aid system, all roads other than those functionally classified as local or rural minor collectors. Funds may also be flexed for use on bridge, transit capital, and bike or trail facilities. A minimum amount of 10 percent must be set aside for both safety construction activities and for transportation enhancements. The remaining STP balance is for use throughout the state. 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 (PVRTA) 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 2016-2019 TIP is consistent with the Regional Transportation Plan (RTP) for the Pioneer Valley Region. Tables 1 and 2 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 1 Transportation Operating and Maintenance Expenditures

Total Available for Programming in the Pioneer Valley RTP	2012 - 2016	2017 - 2021	2022 - 2026	2027 - 2031	2032-2036	GRAND TOTAL
	Total	Total	Total	Total	Total	Total
	\$513,004,750	\$460,033,250	\$559,457,000	\$682,197,000	\$790,754,000	\$3,005,446,000
Major Infrastructure Projects	\$17,593,000	\$23,645,000	\$35,722,000	\$43,648,000	\$50,600,000	\$171,208,000
Federal Aid Bridge Projects	\$83,520,000	\$92,020,000	\$137,690,000	\$167,964,000	\$194,716,000	\$675,910,000
**NHS/IM Projects/NHPP	**\$267,222,000	**\$56,792,000	\$71,737,000	\$87,557,000	\$101,503,000	\$260,797,000
Statewide Maintenance	\$116,673,000	\$119,016,000	\$144,834,000	\$170,450,000	\$197,499,000	\$748,472,000
Regional Discretionary Funding	\$76,903,000	\$119,654,000	\$169,474,000	\$212,578,000	\$246,436,000	\$825,045,000
Total of Regional Discretionary and Major Infrastructure	\$94,496,000	\$143,299,000	\$205,196,000	\$256,226,000	\$297,036,000	\$996,253,000

**Includes \$231,625,000 for I-91 Viaduct, project will be funded from FFY 2014 to FFY 2017

Source: Regional Transportation Plan, updated 2012

Table 2 Transit Operating and Maintenance Expenditures

	2012-2016	2017-2021	2022-2026	2027-2031	2032-2036	TOTAL
State Contract Assistance	\$86,740,473	\$82,703,345	\$82,703,345	\$99,244,014	\$82,703,345	\$434,094,522
Local Assessments	\$36,233,817	\$40,995,238	\$46,382,349	\$52,477,371	\$59,373,329	\$235,462,104
5307 Federal Urbanized Area Formula	\$60,423,930	\$70,047,895	\$81,204,709	\$94,138,514	\$109,132,338	\$414,947,386
5310 Federal Elderly & Disabled	\$2,241,520	\$2,596,747	\$3,005,991	\$3,481,331	\$4,032,407	\$15,357,996
5311 Federal InterCity Bus Program	\$3,832,915	\$4,440,550	\$5,143,370	\$5,958,004	\$6,902,350	\$26,277,189
5316 Federal JARC Program	\$1,875,643	\$2,166,000	\$2,496,000	\$2,878,000	\$3,322,000	\$12,737,643
5317 Federal New Freedom Program	\$1,243,108	\$1,435,000	\$1,651,000	\$1,901,000	\$2,193,000	\$8,423,108
Farebox	\$34,140,525	\$38,626,871	\$43,702,759	\$49,445,660	\$55,943,226	\$221,859,040
Advertising, other revenue	\$5,525,631	\$7,052,261	\$9,000,671	\$11,487,391	\$14,661,145	\$47,727,099
Available for Programming in Pioneer Valley RTP	\$232,257,563	\$250,063,907	\$275,290,194	\$321,011,284	\$338,263,139	\$1,416,886,088

	2012-2016	2017-2021	2022-2026	2027-2031	2032-2036	TOTAL
RTACAP & RTAFCAP Programs	\$11,412,595	\$14,864,628	\$16,351,091	\$17,986,200	\$19,784,821	\$80,399,336
RTA Fleet Acquisition Program	\$0	\$545,292	\$749,777	\$824,754	\$907,230	\$3,027,052
ITC CAP Program	\$600,000	\$0	\$0	\$0	\$0	\$600,000
Federal matching grants (80% of project)	\$48,050,380	\$61,639,682	\$68,403,471	\$75,243,818	\$82,768,200	\$336,105,552
TOTAL Transit Capital Funds Available for Programming in Pioneer Valley RTP	\$60,062,975	\$77,049,602	\$85,504,339	\$94,054,773	\$103,460,250	\$420,131,940

Source: Regional Transportation Plan, updated 2012

II. PUBLIC PARTICIPATION SUMMARY AND CHANGES

The DRAFT FFY 2016-2019 TIP underwent a public review and comment period consistent with the Pioneer Valley Metropolitan Planning Organizations Public Participation Process. This began May 26, 2015 and continued until June 25, 2015. During this time, comments were received from communities, JTC, PVTA, PVPC, MHD District offices and MassDOT. Below is a summary of the comments received during the public review and comment period.

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

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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 December 2011. 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 June 18, 2014 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.

2015 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.


Richard Davey
Secretary & CEO Mass DOT

6/18/14
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.

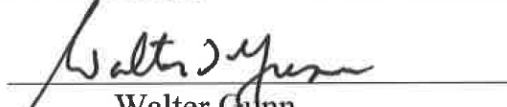

Frank DePaola
Highway Administrator, Mass DOT

06/18/14
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

6/18/14
Date

Pioneer Valley Transit Authority (PVTA)

I, Administrator of the Pioneer Valley Transit Authority, hereby

☒ Endorse ☐ Do Not Endorse the above referenced item.


John Musante
Chair - PVTA

6/18/14
Date

City of Chicopee

I, Mayor of the City of Chicopee, hereby

☐ Endorse ☐ Do Not Endorse the above referenced item.

Richard Kos

Date

City of Holyoke

I, Mayor of the City of Holyoke, hereby

☐ Endorse ☐ Do Not Endorse the above referenced item.

2015 3C Self Certification

I, Mayor of the City of Northampton, hereby

☒ Endorse ☐ Do Not Endorse the above referenced item.



David Narkewicz
Mayor-Northampton

6-18-14

Date

City of Agawam

I, Mayor of the Town of Agawam, hereby

☐ Endorse ☐ Do Not Endorse the above referenced item.

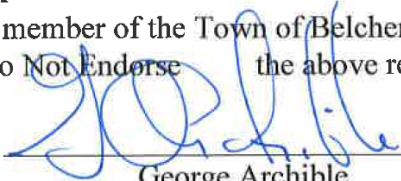
Richard Cohen
Mayor-Agawam

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

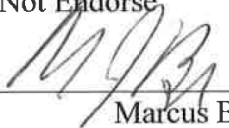
6/18/17

Date

Town of Hatfield

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

☒ Endorse ☐ Do Not Endorse the above referenced item.



Marcus Boyle
Selectman-Hatfield

8/20/14

Date

FUNDING INFORMATION

FEDERAL AID FUNDING TARGETS

The MassDOT provided the revised PVPC federal aid highway funding targets and CMAQ targets for the region on April 3, 2015. The targets are provided for FFYs 2016 through 2019 and represent both the federal aid portion and respective state match.

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 3 shows both these target amounts and the amounts programmed for highway projects during fiscal years 2016-2019. 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 2015 – 2018.

Projects using Target funds were inflated 4% per year starting in FFY2016 in order to reflect year of expenditure (YOE).

Table 3 Federal Highway Financial Plan

Fiscal Year	2016	2017	2018	2019
STP Target	\$13,464,447	\$17,255,610	\$18,228,502	\$18,370,452
STP Programmed	\$12,793,159	\$13,331,715	\$17,913,978	\$13,806,354
CMAQ Target	\$3,378,100	\$3,378,100	\$3,378,100	\$3,378,100
CMAQ Programmed	\$3,348,245	\$3,378,100	\$3,312,774	\$3,378,100
HSIP Target	\$1,080,992	\$1,080,992	\$1,080,992	\$1,080,992
HSIP Programmed	\$0	\$1,080,992	\$1,080,992	\$1,080,992
TAP Target	\$947,878	\$615,889	\$615,889	\$473,939
TAP Programmed	\$947,878	\$0	\$615,889	\$473,939
Total Available Funds	\$18,871,416	\$22,330,590	\$23,303,483	\$23,303,483
Total Programmed Funds	\$17,089,282	\$17,790,807	\$22,923,633	\$23,238,403
Total Unprogrammed Funds	\$1,782,134	\$4,539,783	\$379,850	\$4,564,098

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 4 represents both apportioned items as well as discretionary items. The total programmed amount represents both the federal, state and local contributions.

Table 4 Federal Transit Financial Plan

Funding / Fiscal Year	2016	2017	2018	2019
5307	\$1,581,736	\$15,257,867	\$16,239,146	\$15,169,474
5339	\$15,069	\$0	\$1,023,173	\$3,783,500
5309	\$0	\$0	\$0	\$0
5317	\$0	\$0	\$0	\$0
5310	\$0	\$0	\$0	\$0
5311	\$0	\$0	\$0	\$0
SOGR	\$0	\$0	\$0	\$0
Other Non Federal Aid	\$9,131,960	\$46,170,000	\$33,732,000	\$250,000
Total	\$10,728,765	\$61,427,867	\$49,971,146	\$19,202,974
State Contract Assistance (SCA)	\$23,680,558	\$24,390,975	\$25,122,704	\$25,876,385

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 .

IV. FEDERAL AID REGIONAL PROJECT LISTINGS

The following is a complete listing of the Pioneer Valley Federally Funded Transportation Improvement Projects for Fiscal Years 2016-2019.

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 significance of each eligible TIP project

Table 5: Federally Funded Projects Year 2016

MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
► Section 1A / Federal Aid Target Projects							
► STP - Surface Transportation Program							
606445	LONGMEADOW- RESURFACING & RELATED WORK ON CONVERSE STREET, FROM LAUREL STREET TO DWIGHT STREET (2.04 MILES)	2	STP	\$ 2,742,048	\$ 2,193,638	\$ 548,410	36.4 TEC Score 25%/75% (\$2,742,048) STP
604446	WESTFIELD- RECONSTRUCTION OF ROUTE 187 (LITTLE RIVER ROAD) AND SHAKER ROAD	2	STP	\$ 5,258,683	\$ 4,206,946	\$ 1,051,737	46.5 TEC 100% \$6,206,561 STP, TAP
607869	WILBRAHAM- RECONSTRUCTION OF BOSTON ROAD (ROUTE 20) FROM DUDLEY STREET TO 400FT. EAST OF DUMAINE STREET (0.28MILES)	2	STP	\$ 1,292,428	\$ 1,033,942	\$ 258,486	40 TEC Score 75% \$1,292,428 STP
608022	BRIMFIELD- STURBRIDGE- RESURFACING & RELATED WORK ON ROUTE 20, FROM W. OLD STURBRIDGE ROAD (MM 88.3) TO OLD STREETER ROAD (MM 92.1)	2	STP	\$ 3,500,000	\$ 2,800,000	\$ 700,000	22.5 TEC Score 75% \$3,500,000 STP
► HSIP - Highway Safety Improvement Program							
► CMAQ - Congestion Mitigation and Air Quality Improvement Program							
605385	SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS @ ROOSEVELT AVENUE & ISLAND POND ROAD, ROOSEVELT AVENUE & ALDEN STREET	2	CMAQ	\$ 2,297,372	\$ 1,837,898	\$ 459,474	62.5 TEC Score 25% (YOE \$2,972,372) STP, CMAQ
604968	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)	2	CMAQ	\$ 300,000	\$ 240,000	\$ 60,000	38.83 TEC 75% HPP funds remaining (HPP -1656) \$1,857,506 (Federal) (Total Cost \$2,696,964) Total funding available \$2,575,000, city will scale back project to the funding available. HPP, CMAQ
► TAP - Transportation Alternative Program							
604446	WESTFIELD- RECONSTRUCTION OF ROUTE 187 (LITTLE RIVER ROAD) AND SHAKER ROAD	2	TAP	\$ 947,878	\$ 758,302	\$ 189,576	46.5 TEC 100% \$6,206,561 STP, TAP
► Section 1A / Fiscal Constraint Analysis							
Total Federal Aid Target Funds Programmed				\$ 17,089,282	\$ 18,871,416	\$ 1,782,134	Target Funds Available
Total STP Programmed				\$ 12,793,159	\$ 13,464,446	\$ 671,287	STP Available
Total HSIP Programmed				\$ -	\$ 1,080,992	\$ 1,080,992	HSIP Minimum Not Met
Total CMAQ Programmed				\$ 3,348,245	\$ 3,378,100	\$ 29,855	CMAQ Minimum Not Met
Total TAP Programmed				\$ 947,878	\$ 947,878	\$ -	TAP Minimum Met
► Section 1B / Federal Aid Bridge Projects							
607516	DISTRICT 2- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS	2	BR-SP	\$1,849,978	\$ 1,479,982	\$ 369,996	Pre 25% NHPP
607524	BELCHERTOWN- WARREN BRIDGE DEMOLITION, B-05-023, W-07-012, (EAST MAIN STREET/NAULTAUG BROOK)	2	BR- Off	\$2,477,738	\$ 1,982,190	\$ 495,548	Pre 25%
BR Subtotal				\$ 4,327,716	\$ 3,462,173	\$ 865,543	80% Federal + 20% Non-Federal

Table 5: Federally Funded Projects Year 2016 (Continued)

► Section 1C / Federal Aid Non-Target Projects									
► Earmarks									
604968	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)	2	HPP (2005)	\$	2,275,000	\$	1,857,506	\$	417,494
	Earmarks Subtotal ►			\$	2,275,000	\$	1,857,506	\$	417,494
► Other									
603477	SOUTHWICK- INTERSECTION IMPROVEMENTS AT FOUR LOCATIONS ON ROUTE 57 (FEEDING HILLS ROAD)	2	Statewide CMAQ	\$	3,551,223		2,840,978.4		710,244.6
	Other Subtotal ►			\$	3,551,223	\$	2,840,978	\$	710,245
► Section 1D / Federal Aid Major & State Category Projects									
► IM - Interstate Maintenance									
606577	HATFIELD- WHATELY - INTERSTATE MAINTENANCE & RELATED WORK ON I-91	2	IM	\$	10,620,000	\$	9,558,000	\$	1,062,000
607182	BERNARDSTON- GREENFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON ROUTE I-91 FROM MM 48.6 TO MM 50.4 (1.8 MILES)	2	IM	\$	2,293,920	\$	2,064,528	\$	229,392
	IM Subtotal ►			\$	12,913,920	\$	11,622,528	\$	1,291,392
► NHPP - National Highway Performance Program									
607731	SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S-24-061 ON I-91 (EARLY ACTION)	2	NHPP	\$	84,493,750		67,595,000.0		16,898,750.0
	NHPP Subtotal ►			\$	84,493,750	\$	67,595,000	\$	16,898,750
► Other									
607036	DISTRICT 2 - ADA RETROFITS AT VARIOUS LOCATIONS	2	Other	\$	740,000		592,000.0		148,000.0
607035	DISTRICT 1 - ADA RETROFITS AT VARIOUS LOCATIONS	2	Other	\$	340,000		272,000.0		68,000.0
607453	SOUTHAMPTON - SOUTHAMPTON SAFE ROUTES TO SCHOOL - NORRIS ELEMENTARY SCHOOL	2	Statewide TAP		\$827,064		\$661,651		\$165,413
608136	SOUTH HADLEY-ROUTE 116 STORMWATER RETOFITS	2	Statewide TE	\$	169,400		135,520.0		33,880.0
	Other Subtotal ►			\$	13,345,296	\$	10,676,237	\$	2,669,059
► Section 2A / Non-Federal Projects									
	No Projects Programmed			\$	-		\$	-	
	Non-Federal Projects Subtotal ►			\$	-		\$	-	◄100% Non-Federal
► Section 2B / Non-Federal Bridge Projects									
	No Projects Programmed			\$	-		\$	-	
	Non-Federal Bridge Projects Subtotal ►			\$	-		\$	-	◄100% Non-Federal
2016 Pioneer Valley MPO TIP Summary									
YOE = Year of Expenditure (includes 4% per year inflation factor)				TIP Section 1: ▼		TIP Section 2: ▼		Total of All Projects ▼	
Total ►				\$	137,996,187	\$	-	\$	137,996,187
Federal Funds ►				\$	111,725,848			\$	111,725,848
Non-Federal Funds ►				\$	26,270,339	\$	-	\$	26,270,339
									◄ Total Spending in Region
									◄ Total Federal Spending in Region
									◄ Total Non-Federal Spending in Region

Table 6: Federally Funded Projects 2017

MassDOT Project ID	MassDOT Project Description	MassDOT District	Funding Source	Total Programmed Funds	Federal Funds	Non-Federal Funds	Additional Information
► Section 1A / Federal Aid Target Projects							
► STP - Surface Transportation Program							
605011	LUDLOW - RECONSTRUCTION OF CENTER STREET (ROUTE 21) - FROM 35' WEST OF BEACHSIDE DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET)	2	STP	\$ 4,918,051	\$ 3,934,441	\$ 983,610	40 TEC Score 25% (YOE \$4,918,051) STP
604033	SOUTH-WICK - RECONSTRUCTION CONGAMOND ROAD (ROUTE 168) - FROM COLLEGE HIGHWAY & ENDS 250 FEET SHORT OF STATE LINE (1.2 MILES)	2	STP	\$ 4,980,256	\$ 3,984,205	\$ 996,051	38 TEC Score 25% (YOE \$4,980,256) STP
180525	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 INTERSECTION TO ROUTE 5 INTERSECTION (1.1 MILES)	2	STP	\$ 3,433,408	\$ 2,746,726	\$ 686,682	61.5 TEC Score 25% (\$5,200,000) STP, HSP, CMAQ
► HSP - Highway Safety Improvement Program							
604203	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	2	HSP	\$ 1,080,992	\$ 972,893	\$ 108,099	58.5 Pre 25% (YOE \$1,620,000) HSP, CMAQ
► CMAQ - Congestion Mitigation and Air Quality Improvement Program							
180525	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 INTERSECTION TO ROUTE 5 INTERSECTION (1.1 MILES)	2	CMAQ	\$ 1,766,592	\$ 1,413,274	\$ 353,318	61.5 TEC Score 25% (YOE \$5,200,000) STP, HSP, CMAQ
604203	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	2	CMAQ	\$ 539,008	\$ 431,206	\$ 107,802	58.5 Pre 25% (YOE \$1,620,000) HSP, CMAQ
606903	HOLYOKE - IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	2	CMAQ	\$ 1,072,500	\$ 858,000	\$ 214,500	37.5 Pre 25% (YOE \$1,072,500) CMAQ
► TAP - Transportation Alternative Program							
			CMAQ Subtotal	\$ 3,378,100	\$ 2,702,480	\$ 675,620	80% Federal + 20% Non-Federal
			TAP Subtotal	\$ -	\$ -	\$ -	Funding Split Varies by Project Specifications
► Section 1A / Fiscal Constraint Analysis							
Total Federal Aid Target Funds Programmed				\$ 17,790,807	\$ 22,330,590	\$ 4,539,783	Target Funds Available
Total STP Programmed				\$ 13,331,715	\$ 17,255,609	\$ 3,923,894	STP Available
Total HSP Programmed				\$ 1,080,992	\$ 1,080,992	\$ -	HSP Minimum Met
Total CMAQ Programmed				\$ 3,378,100	\$ 3,378,100	\$ -	CMAQ Minimum Met
Total TAP Programmed				\$ -	\$ 615,889	\$ 615,889	TAP Minimum Not Met
► Section 1B / Federal Aid Bridge Projects							
607528	AMHERST- BRIDGE REPLACEMENT, A-08-008, MILL STREET OVER MILL RIVER	2	BR - Off	\$2,644,040	\$ 2,115,232	\$ 528,808	Pre 25%
607549	CHESTERFIELD - IRELAND STREET OVER WEST BRANCH OF WESTFIELD RIVER	1	BR - Off	\$3,649,520	\$ 2,919,616	\$ 729,904	
605384	AGAWAM- WEST SPRINGFIELD- BRIDGE RECONSTRUCTION, A-05-002=W-21-014, ROUTE 147 OVER THE WESTFIELD RIVER & INTERSECTION & SIGNAL IMPROVEMENTS @ 3 LOCATIONS	2	BR - On	\$14,757,120	\$ 11,805,696	\$ 2,951,424	(NHPP)
607517	DISTRICT 2- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS	2	BR-SP	\$1,849,693	\$ 1,479,754	\$ 369,939	(NHPP)
			BR Subtotal	\$ 22,900,373	\$ 18,320,298	\$ 4,580,075	80% Federal + 20% Non-Federal

Table 6: Federally Funded Projects Year 2017 (Continued)

► Section 1C / Federal Aid Non-Target Projects									
Earmarks									
603449	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	2	HPP (2005)	\$	2,702,868	2,162,294.4	540,573.6	36 TEC Score, Pre 25% Design, HPP-4287 \$2,503,688 Total with Match	
	Earmarks Subtotal			\$	2,702,868	2,162,294	540,574	◀ Funding Split Varies by Earmark	
► Other									
606450	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	Statewide CMAQ	\$	1,564,867	1,251,893.6	312,973.4	36.5 TEC Score Pre 25% (\$1,564,867)	
603783	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	Statewide CMAQ	\$	6,532,895	5,226,316.0	1,306,579.0	36.6 TEC Score 75% Design (\$6,532,895)	
606555	NORTHAMPTON- ROUNDAABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	2	Statewide CMAQ	\$	2,989,892	\$2,391,914	\$597,978	42.5 TEC Score 25% (\$2,874,896)	
602911	CHICOPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES)	2	Statewide CMAQ	\$	3,902,850	3,122,280.0	780,570.0	27 TEC Score 25% (\$3,261,288)	
607736	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET	2	Statewide HSP	\$	4,010,000	3,208,000	802,000	38.5 TEC Score Pre 25% (YOE \$4,100,000)	
	Other Subtotal			\$	19,000,504	15,200,403	3,800,101	◀ Funding Split Varies by Funding Source	
► Section 1D / Federal Aid Major & State Category Projects									
► IM - Interstate Maintenance									
607731	SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S-24-061 ON I-91 (EARLY ACTION)	2	NHPP	\$	9,000,000	7,200,000.0	1,800,000.0	100% Design, Funds will be disbursed from FFY 2014 through FFY 2017	
	IM Subtotal			\$	9,000,000	7,200,000	1,800,000	◀ 90% Federal + 10% Non-Federal	
► NHPP - National Highway Performance Program									
607474	GRANBY / SOUTH HADLEY - RESURFACING AND RELATED WORK ON ROUTE 202	2	NHPP	\$	1,712,794	1,370,235.2	342,558.8	Pre 25% (\$1,712,794)	
	NHPP Subtotal			\$	1,712,794	1,370,235	342,559	◀ 80% Federal + 20% Non-Federal	
► Other									
608192	AGAWAM-CHICOPEE-HOLYOKE-SPRINGFIELD-WEST SPRINGFIELD - STORMWATER IMPROVEMENTS ALONG I-91, I-291, I-391, AND ROUTE 5	2	STP-TE	\$	1,872,000	1,497,600.0	374,400.0		
	Other Subtotal			\$	1,872,000	1,497,600	374,400	◀ Funding Split Varies by Funding Source	
► Section 2A / Non-Federal Projects									
No Projects Programmed				\$	-		-	◀ 100% Non-Federal	
	Non-Federal Projects Subtotal			\$	-		-		
► Section 2B / Non-Federal Bridge Projects									
No Projects Programmed				\$	-		-	◀ 100% Non-Federal	
	Non-Federal Bridge Projects Subtotal			\$	-		-		
2017 Pioneer Valley MPO TIP Summary									
				TIP Section 1: ▼		TIP Section 2: ▼		Total of All Projects ▼	
	Total	\$	74,979,346	\$	-	\$	74,979,346	◀ Total Spending in Region	
	Federal Funds	\$	60,091,576	\$	60,091,576	\$	60,091,576	◀ Total Federal Spending in Region	
	Non-Federal Funds	\$	14,887,770	\$	-	\$	14,887,770	◀ Total Non-Federal Spending in Region	

Table 7: Federally Funded Projects 2018

MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼	
► Section 1A / Federal Aid Target Projects								
► STP - Surface Transportation Program								
607502	NORTHAMPTON - INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	2	STP	\$ 251,028	\$ 200,822	\$ 50,206	57 TEC Score Pre 25% (YOE \$1,829,128) CMAQ, STP	
604738	SOUTHAMPTON- RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3.801 FEET)	2	STP	\$ 2,478,600	\$ 1,982,880	\$ 495,720	18.8 TEC Score 75% (YOE \$2,478,600) STP	
604597	NORTHAMPTON- I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD	2	STP	\$ 2,983,119	\$ 2,386,495	\$ 596,624	61 TEC Score 25% (YOE \$6,720,000) STP, CMAQ, HSIP, TAP	
604434	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	2	STP	\$ 6,706,800	\$ 5,365,440	\$ 1,341,360	Pre 25% 47.6 TEC (YOE \$6,955,200) STP	
607430	LONGMEADOW- RESURFACING & RELATED WORK ON LONGMEADOW STREET (ROUTE 5), FROM THE CT S.L. TO CONVERSE STREET (2.88 MILES)	2	STP	\$ 2,390,407	\$ 1,912,326	\$ 478,081	34.4 TEC Score 75 % (YOE \$2,478,941) STP	
607256	HOLYOKE- RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	2	STP	\$ 3,104,024	\$ 2,483,219	\$ 620,805	39 TEC Score 25% (YOE \$3,104,024) STP	
► HSIP - Highway Safety Improvement Program				STP Subtotal ▶	\$ 17,913,978	\$ 14,331,182	\$ 3,582,796	◀ 80% Federal + 20% Non-Federal
604597	NORTHAMPTON- I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD			\$ 1,080,992	\$ 972,893	\$ 108,099	61 TEC Score 25% (YOE \$6,720,000) STP, CMAQ, HSIP, TAP	
► CMAQ - Congestion Mitigation and Air Quality Improvement Program				HSIP Subtotal ▶	\$ 1,080,992	\$ 972,893	\$ 108,099	◀ Funding Split Varies by Project Specifications
607502	NORTHAMPTON - INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	2	CMAQ	\$ 1,512,774	\$ 1,210,219	\$ 302,555	57 TEC Score Pre 25% (YOE \$1,829,128) CMAQ, STP	
604597	NORTHAMPTON- I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD			\$ 1,800,000	\$ 1,440,000	\$ 360,000	61 TEC Score 25% (YOE \$6,720,000) STP, CMAQ, HSIP, TAP	
► TAP - Transportation Alternative Program				CMAQ Subtotal ▶	\$ 3,312,774	\$ 2,650,219	\$ 662,555	◀ 80% Federal + 20% Non-Federal
604597	NORTHAMPTON- I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD			\$ 615,889	\$ 492,711	\$ 123,178	61 TEC Score 25% (YOE \$6,720,000) STP, CMAQ, HSIP, TAP	
			TAP Subtotal ▶	\$ 615,889	\$ 492,711	\$ 123,178	◀ Funding Split Varies by Project Specifications	
► Section 1A / Fiscal Constraint Analysis								
Total Federal Aid Target Funds Programmed ▶				\$ 22,923,633	\$ 23,303,483	◀ Total Target	\$ 379,850 Target Funds Available	
Total STP Programmed ▶				\$ 17,913,978	\$ 18,228,502	◀ Max. STP	\$ 314,524 STP Available	
Total HSIP Programmed ▶				\$ 1,080,992	\$ 1,080,992	◀ Min. HSIP	\$ - HSIP Minimum Met	
Total CMAQ Programmed ▶				\$ 3,312,774	\$ 3,378,100	◀ Min. CMAQ	\$ 65,326 CMAQ Minimum Not Met	
Total TAP Programmed ▶				\$ 615,889	\$ 615,889	◀ Min. TAP	\$ - TAP Minimum Met	
► Section 1B / Federal Aid Bridge Projects								
607939	CUMMINGTON- BRIDGE MAINTENANCE, C-21-025, ROUTE 9 OVER THE WESTFIELD RIVER	1	BR-SP	\$ 300,000	\$ 240,000	\$ 60,000		
607959	District 2 - Systematic Bridge Maintenance at Various Locations	2	BR-SP	\$ 1,624,800	\$ 1,299,840	\$ 324,960		
BR Subtotal ▶				\$ 1,924,800	\$ 1,539,840	\$ 384,960	◀ 80% Federal + 20% Non-Federal	

Table 7: Federally Funded Projects Year 2018 (Continued)

Table 7: Federally Funded Projects Year 2019

MassDOT Project ID	MassDOT Project Description	MassDOT District	Funding Source	Total Programmed Funds	Federal Funds	Non-Federal Funds	Additional Information
► Section 1A / Federal Aid Target Projects							
► STP - Surface Transportation Program							
600513	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	2	STP	\$ 1,744,960	\$ 1,395,968	\$ 348,992	22.5 TEC Score Pre 25% (YOE \$1,744,960) STP
607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	STP	\$ 1,730,969	\$ 1,384,775	\$ 346,194	46 TEC Score Pre 25% (YOE \$2,184,000) STP, TAP
607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STREET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	STP	\$ 5,698,486	\$ 4,558,789	\$ 1,139,697	38.5 TEC Score 25% (YOE 5,698,486) STP, (HPP will be used for Phase I (\$2,500,000))
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)	2	STP	\$ 3,225,600	\$ 2,580,480	\$ 645,120	47 TEC Score Pre 25% (YOE \$3,225,600) STP
608084	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	2	STP	\$ 1,406,339	\$ 1,125,071	\$ 281,268	46.5 TEC Score Pre 25% (YOE \$1,406,339) STP
			STP Subtotal	\$ 13,806,354	\$ 11,045,083	\$ 2,761,271	◀ 80% Federal + 20% Non-Federal
► HSIP - Highway Safety Improvement Program							
606156	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	2	STP	\$ 1,080,992	\$ 864,794	\$ 216,198	48 TEC Score Pre 25% (YOE \$2,912,000) HSIP, CMAQ
			HSIP Subtotal	\$ 1,080,992	\$ 864,794	\$ 216,198	◀ Funding Split Varies by Project Specifications
► CMAQ - Congestion Mitigation and Air Quality Improvement Program							
606156	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	2	CMAQ	\$ 1,831,008	\$ 1,464,806	\$ 366,202	48 TEC Score Pre 25% (YOE \$2,912,000) HSIP, CMAQ
607893	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	2	CMAQ	\$ 1,547,092	\$ 1,237,674	\$ 309,418	68 TEC Score Pre 25% (YOE \$1,568,000) CMAQ, TAP
			CMAQ Subtotal	\$ 3,378,100	\$ 2,702,480	\$ 675,620	◀ 80% Federal + 20% Non-Federal
► TAP - Transportation Alternative Program							
607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	TAP	\$ 453,031	\$ 362,425	\$ 90,606	46 TEC Score Pre 25% (YOE \$2,184,000) STP, TAP
607893	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	2	TAP	\$ 20,908	\$ 16,726	\$ 4,182	68 TEC Score Pre 25% (YOE \$1,568,000) CMAQ, TAP
			TAP Subtotal	\$ 473,939	\$ 379,151	\$ 94,788	◀ Funding Split Varies by Project Specifications
► Section 1A / Fiscal Constraint Analysis							
Total Federal Aid Target Funds Programmed				\$ 18,739,385	\$ 23,303,483	◀ Total Target	\$ 4,564,098 Target Funds Available
Total STP Programmed				\$ 13,806,354	\$ 18,370,452	◀ Max. STP	\$ 4,564,098 STP Available
Total HSIP Programmed				\$ 1,080,992	\$ 1,080,992	◀ Min. HSIP	\$ - HSIP Minimum Met
Total CMAQ Programmed				\$ 3,378,100	\$ 3,378,100	◀ Min. CMAQ	\$ (0) CMAQ Minimum Met
Total TAP Programmed				\$ 473,939	\$ 473,939	◀ Min. TAP	\$ - TAP Minimum Met

Table 8: Federally Funded Projects Year 2019 (Continued)

PROJECT CURRENTLY UNDER DESIGN AWAITING FUNDING (APPENDIX Z)

Table 9: Projects Awaiting Design and Funds (Appendix Z)

2016-2019 TIP Year	2015 - 2018 TIP Year	Community	SID	Project Name and Description	Design	New TEC	Old TEC	Estimated Cost
2016	2016	Westfield	604446	RECONSTRUCTION OF ROUTE 187 (LITTLE RIVER ROAD) AND SHAKER ROAD - 300 METERS SOUTH OF ROUTE 20 TO 460 METERS EAST OF SHAKER RD (8 MILES)	100	46.5	8.37	\$6,206,561
		Westfield	604445	RECONSTRUCTION ON ROUTE 187, INCLUDES REPLACEMENT OF W-25-002, SHERMAN'S MILL BRIDGE OVER GREAT BROOK AT PONTTOOSIC ROAD	75	42.3	7.60	\$6,926,210
2016	2015	Wilbraham	607869	WILBRAHAM - RECONSTRUCTION OF BOSTON ROAD (ROUTE 20) FROM DUDLEY STREET TO 400FT. EAST OF DUMAINE STREET (0.28MILES)	100	40.0	7.27	\$1,292,428
		Agawam	607626	AGAWAM - RESURFACING & RELATED WORK ON ROUTE 159, FROM MEADOW STREET TO 150 FT. SOUTH OF SUFFIELD STREET (1.1 MILES)	75	34.0	0.00	\$1,450,000
2018	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	\$2,295,000
2017	2017	Longmeadow	606445	RESURFACING & RELATED WORK ON CONVERSE STREET, FROM LAUREL STREET TO DWIGHT STREET (2.04 MILES)	25/75	36.4	6.55	\$1,967,500
2018	2018	Longmeadow	607430	RESURFACING & RELATED WORK ON LONGMEADOW STREET (ROUTE 5), FROM THE CT S.L. TO CONVERSE STREET (2.88 MILES)	25/75	34.4	6.18	\$2,737,800
2015		Hadley / West Brookfield	608023	Sidewalk and Wheelchair Ramp Construction of Route 9	PS&E	13.5		\$1,531,865
2016	2016	Springfield	605385	SIGNAL & INTERSECTION IMPROVEMENTS @ ROOSEVELT A VENUE & ISLAND POND ROAD, ROOSEVELT A VENUE & ALDEN STREET	25	62.5	5.47	\$2,297,372
2017	2016	Northampton	180525	RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 INTERSECTION TO ROUTE 5 INTERSECTION (1.1 MILES)	25	61.5	8.55	\$5,000,000
2018	2018	Northampton	604597	I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD	25	61.0	7.78	\$4,500,000
2017 SW CMAQ	2016 SW CMAQ	Southwick	603477	SOUTHWICK- INTERSECTION IMPROVEMENTS AT FOUR LOCATIONS ON ROUTE 57 (FEEDING HILLS ROAD)	25	47.0	7.75	\$4,198,200
Off TIP	2017	Hadley	605032	RECONSTRUCTION ON ROUTE 9 BETWEEN THE LOWE'S AND HOME DEPOT SITE DRIVES (0.6 MILES)	25	45.0	7.83	\$4,428,122
2017 SW CMAQ	2016 SW CMAQ	Northampton	606555	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	25	42.5	7.18	\$2,917,000
2016	2016	Ludlow	605011	RECONSTRUCTION OF CENTER STREET (ROUTE 21) - FROM 35' WEST OF BEACHSIDE DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET)	25	40.0	9.65	\$4,728,895
2018		Holyoke	607256	RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	25	39.0	7.97	\$2,874,096
2019		Westfield	607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STREET & WESTERN A VENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II) Eastern Section	25	38.5	8.97	\$5,087,934

Table 9: Projects Awaiting Design and Funds (Appendix Z) (Cont.)

2017	2017	Southwick	604033	RECONSTRUCTION CONGAMOND ROAD (ROUTE 168) - FROM COLLEGE HIGHWAY & ENDS 250 FEET SHORT OF STATE LINE (1.2 MILES)	25	38.0	6.52	\$5,575,500
		Belchertown	604692	RECONSTRUCTION ON SOUTH MAIN STREET & NORTH WASHINGTON STREET FROM SOUTH MAIN ST TO THE INTERSECTION OF NORTH LIBERTY (2.08 MILES)	25	38.0	5.63	\$3,740,430
		A gawam	607316	RECONSTRUCTION OF ROUTE 187, FROM SOUTHWICK/SPRINGFIELD STREET TO ALLISON LANE (1.29 MILES - PHASE II)	25	33.8	6.08	\$5,562,610
		Holland	604962	RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO THE INTERSECTION OF STAFFORD STREET (2.3 MILES)	25	31.6	5.68	\$1,500,000
		Southampton	604653	REHABILITATION OF EAST STREET - FROM COLLEGE HIGHWAY EASTERLY TO COUNTY ROAD (2.6 MILES)	25	31.0	6.03	\$5,022,200
		Goshen	602888	Route 9 reconstruction	25	28.0	6.20	\$7,500,000
2019	2017	A gawam	600513	RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	25	22.5	6.08	\$1,558,080
		Goshen	605150	West Street Reclamation	25	16.1	2.90	\$2,800,000
2019		Northampton	607893	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	0	68.0		\$1,400,000
2017	2017	A gawam	604203	Route 187/57 Intersection Improvements	0	58.5	8.73	\$1,600,000
2018	2017	Northampton	607502	INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	0	57.0	7.40	\$1,633,150
2019		Holyoke	606156	RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	0	48.0	5.45	\$2,600,000
2018	2018	Chicopee	604434	RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	0	47.6	8.57	\$6,210,000
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	47.0	7.82	\$2,880,000
2019		Amherst	608084	Improvements and Related Work on Route 9 and 116 from University Drive to South Pleasant Street (0.8 miles)	0	46.5		\$1,255,660
2019		Ware	607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	0	46.0		\$1,950,000
2019		Granby	606895	Route 202 Intersection Improvements 2 Locations @ 5 Corners and @ School Street	0	41.5	6.00	\$500,000

Table 9: Projects Awaiting Design and Funds (Appendix Z) (Cont.)

		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	5.82	\$1,200,112
		Hadley	605881	RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET (ROUTE 47) TO EAST OF MILL VALLEY ROAD (LOWES) (1.27 MILES)	0	40.0	8.12	\$6,900,000
2019		Chicopee	607736	SIGNAL & INTERSECTION IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET	0	38.5	7.15	\$4,016,980
2017	2017	Holyoke	606903	IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	0	37.5	6.67	\$1,031,250
2017 SW CMAQ	2016 SW CMAQ	Holyoke	606450	TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	0	36.5	5.98	\$1,564,867
		Westfield	603449	ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE HPP \$2,503,688	0	36.0	8.97	\$2,702,868
		Wilbraham	607990	RESURFACING & RELATED WORK ON ROUTE 20, FROM STONY HILL ROAD TO THE PALMER TOWN LINE (4.8 MILES)	0	36.0		\$5,699,340
		Agawam	607317	Route 187 Reconstruction from Allison Ln to Westfield City Line, 1.69 miles (Phase III)	0	33.8	6.08	\$7,589,668
		Southwick	606141	RECONSTRUCTION OF FEEDING HILLS ROAD (ROUTE 57), FROM COLLEGE HIGHWAY TO THE AGAWAM T.L.	0	33.5	5.13	\$4,080,000
		South Hadley	607735	SOUTH HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 202 (GRANBY ROAD) & ROUTE 33 (LYMAN STREET)	0	33.0	6.40	\$500,000
		Worthington	606912	Route 143 Reconstruction and Related Work	0	28.5	4.22	\$12,500,000
		Northampton	607501	INTERSECTION IMPROVEMENTS @ NORTH ELM STREET, ELM STREET & WOODLAWN AVENUE	0	28.0	5.55	\$1,498,520
		Hadley	602796	RECONSTRUCTION OF SOUTH MAPLE STREET, FROM ROUTE 9 (RUSSELL STREET) SOUTHERLY TO BAY ROAD, INCLUDES REHAB OF H-01-006 (2.7 MILES)	0	27.4	4.93	\$5,000,000
		Belchertown /Granby	604819	RESURFACING & RELATED WORK ON ROUTE 202	0	25.0	5.63	\$4,687,500
		Amherst / Pelham	606230	RESURFACING & RELATED WORK ON ROUTE 9 FROM SOUTHEAST ST IN AMHERST THROUGH PELHAM TO THE BELCHERTOWN T.L. (2.2 MILES)	0	22.8	4.10	\$1,800,000
		Brimfield / Sturbridge	608022	Resurfacing and Related work on Route 20 from W. Old Sturbridge Road (MM 88.3) to Old Streater Road (MM92.1)	0	22.5		\$3,500,000
		Hadley	608089	INTERSECTION, BICYCLE AND PEDESTRIAN IMPROVEMENTS @ ROUTES 9, 116 & WESTGATE CENTER DRIVE	0	22.5		\$1,544,720
		Palmer	603873	RESURFACING & RELATED WORK ON ROUTE 20 - FROM EAST OF RTE 32 INTERSECTION EASTERLY TO MM 81.7 (2.0 MILES)	0	22.0	4.40	\$1,200,000

Table 9: Projects Awaiting Design and Funds (Appendix Z) (Cont.)

2017 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	0.00	\$1,410,000
	West Springfield	604746	BRIDGE REPLACEMENT, W-21-006, CSX RAILROAD OVER UNION STREET	0	20.0	11.12	\$13,616,254
	South Hadley	606452	RESURFACING & RELATED WORK ON ROUTE 116 (AMHERST ROAD), FROM WOODBRIDGE STREET TO PEARL STREET	0	20.0	4.22	\$1,630,070
	Southwick	604153	RESURFACING & RELATED WORK ON ROUTE 10/202 (COLLEGE HIGHWAY - SOUTHERLY SECTION) FROM 0.2 MILES SOUTH OF ROUTE 57, WEST TO THE CT STATE LINE (4.2 MILES)	0	17.5	5.77	\$2,600,000
	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)	0	17.0	7.58	\$6,134,080
	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	17.0	5.80	\$1,440,000
	Hadley	606547	PEDESTRIAN SIGNAL INSTALLATION AT 2 LOCATIONS ALONG ROUTE 9 NEAR WEST ST	0	14.0	0.00	\$134,600
	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	13.5	3.03	\$1,273,145
	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	13.0	4.38	\$8,476,770
	Easthampton / Southampton	608026	SIDEWALK CONSTRUCTION & RELATED WORK ON ROUTE 10, FROM MM 19.9 NORTHERLY TO MM 20.9 (600' SOUTH OF SOUTH STREET)	0	13.0		\$422,505
	Williamsburg	607231	Reconstruction of High Street and Mountain Street	0	12.5	4.42	\$3,600,000
	Agawam	607876	Sidewalk Construction on Route 159 From CT Line to Woodcliff Ave and From South St to River Road	0	12.5	2.43	\$450,265
	Wales	605669	PEDESTRIAN ACCESS IMPROVEMENTS & RELATED WORK ON ROUTE 19	0	10.0	4.30	\$312,500
	Chicopee	606892	SLOPE PROTECTION IMPROVEMENTS AT I-391 BRIDGE OVER THE CONNECTICUT RIVER	0	5.5	0.00	\$282,650
	Cummington	606797	Route 9 Retaining Wall	0	4.5	4.4	\$1,660,000
	Longmeadow / Springfield	606469	RETAINING WALL REPLACEMENT/REHABILITATION ON I-91 (SB)	0			\$6,143,750
2018 NHPP	Chicopee/Holyoke	607560	INTERSTATE MAINTENANCE & RELATED WORK ON I-391	0			\$10,911,130
	Hadley	607886	RESURFACING AND RELATED WORK ON ROUTE 47 FROM COMINS DRIVE TO OLD RIVER DRIVE, INCLUDES CULVERT REPLACEMENT AT RUSSELVILLE BROOK	0		2.88	\$900,000
	Goshen	608126	GOSHEN- RESURFACING AND RELATED WORK ON ROUTE 9 FROM CUMMINGTON T.L. TO ROUTE 112 (CAPE STREET)	0			\$3,500,000

Table 9: Projects Awaiting Design and Funds (Appendix Z - CMAQ) (Cont.)

2016-2019 TIP Year	2015-2018 TIP Year	Community	SID	Project Name and Description	Design	New TEC	Old TEC	Estimated Cost
2017	2017	Agawam	604203	Route 187/57 Intersection Improvements	0	58.5	8.73	\$1,500,000
2018 SW CMAQ	2018 SW CMAQ	Chicopee	602912	CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	25	27.9	5.02	\$2,030,278
2017 SW CMAQ	2016 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	25	27.0	4.85	\$3,752,740
2018	2018	Chicopee	604434	RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	0	47.6	8.57	\$6,210,000
2019		Chicopee	607736	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET	0	38.5	7.15	\$4,016,980
2019		Granby	606895	Route 202 Intersection Improvements 2 Locations @ 5 Corners and @ School Street	0	41.5	6.00	\$500,000
2019		Holyoke	606156	RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	0	48	5.45	\$2,600,000
2017	2017	Holyoke	606903	IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	0	37.5	6.67	\$1,031,250
2017 SW CMAQ	2016 SW CMAQ	Holyoke	606450	TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	0	36.5	5.98	\$1,564,867
2018	2018	Northampton	604597	I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD	25	61	7.78	\$4,500,000
2017 SW CMAQ	2016 SW CMAQ	Northampton	606555	Roundabout Construction Route 5/10 (North King Street) @ Hatfield Street	25	42.5	7.18	\$2,917,000
2018	2017	Northampton	607502	INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	0	57	7.40	\$1,633,150
		Northampton, Amherst, Holyoke, Springfield	607501	INTERSECTION IMPROVEMENTS @ NORTH ELM STREET, ELM STREET & WOODLAWN AVENUE	0	28	5.55	\$1,498,520
		Northampton, Amherst, Holyoke, Springfield		Pioneer Valley Regional Bike Share	0	30.0		\$1,152,000
		South Hadley	607735	SOUTH HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 202 (GRANBY ROAD) & ROUTE 33 (LYMAN STREET)	0	33	6.40	\$500,000
		Southampton	607823	GREENWAY RAIL TRAIL CONSTRUCTION, FROM COLEMAN RD TO ROUTE 10 (3.5 MILES)	0			\$6,080,722
2017 SW CMAQ	2016 SW CMAQ	Southwick	603477	Intersection Improvements at Four Locations on Route 57 (Feeding Hills Road)	25	47	7.75	\$4,198,200
2016	2016 CMAQ	Springfield	605385	SIGNAL & INTERSECTION IMPROVEMENTS @ ROOSEVELT AVENUE & ISLAND POND ROAD, ROOSEVELT AVENUE & ALDEN STREET	25	62.5	5.47	\$2,297,372
		Ware	607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	0	46.0		\$1,950,000
2016	2016 HPP / CMAQ	Westfield	604968	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)*** TTPC \$2,696,193 HPP\$1,857,506 (federal) \$2,250,000 total*****	75	38.83	6.98	\$446,193
		Westfield	603783	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	75	36.60	6.58	\$3,720,000
		Westfield	608073	WESTFIELD RIVER LEEVE MULTI-USE PATH CONSTRUCTION, FROM CONGRESS ST TO WILLIAMS RIDING WAY (NEAR MEADOW ST) (2 MILES)	0	40		\$4,801,730

Table 10: 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 was advertised on 9/30/06; #604443 was advertised on 8/8/09
		602844; 604443;					
Design and construction of Southwick and Westfield Rail Trail	Southwick/Westfield	603783	HPP-1656	\$1,857,506	\$464,377	\$46,779	#604451 was advertised on 9/1/2007
	Northampton	604451	HPP-158	\$302,865	\$75,716	\$378,581	#604447 was advertised on 9/22/07
*Construct Access roads to Hospital Hill (\$1,652,818)	Springfield	604447	HPP-217	\$899,056	\$224,764	\$1,123,820	#602338 was advertised on 12/6/2008
*State St. Corridor Redevelopment Project (\$18,052,897)							#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							\$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 2016-2019

The following is a complete listing of programmed transit projects for FFY 2016-2019

Table 11: FFY 2016 Transit Project Information

Transportation Improvement Program (TIP)
Project List (FY2016)

FTA Program	Transit Agency	FTA Activity Line Item	Project Description	Carryover or Earmark Detail	Federal Funds	RTACAP	MAP	ICB	TDC	SCA	Local Funds	Total Cost
5307	Pioneer Valley Transit Authority	114220	Communications Sys, Including ITS (Match for FY15)		\$372,800	\$1,208,936	\$0	\$0	\$0	\$0	\$0	\$1,581,736
				Subtotal	\$372,800	\$1,208,936	\$0	\$0	\$0	\$0	\$0	\$1,581,736
5309				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5310				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5311				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5337				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5339				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Pioneer Valley Transit Authority	114220	Communications Sys, Including ITS (Match for FY15)		\$12,055	\$3,014	\$0	\$0	\$0	\$0	\$0	\$15,069
				Subtotal	\$12,055	\$3,014	\$0	\$0	\$0	\$0	\$0	\$15,069
5320				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Federal				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Non-Federal				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other												
Non-Federal	Pioneer Valley Transit Authority	111215	Purchase - Replacement: Vans (30)		\$0	\$2,873,700	\$0	\$0	\$0	\$0	\$0	\$2,873,700
Other												
Non-Federal	Pioneer Valley Transit Authority	114206	Rehab/Renovation: Shop Equipment (Match for FY15)		\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
Other												
Non-Federal	Pioneer Valley Transit Authority	119302	Transit Emmts: Shelters, etc. (Match for FY15)		\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000

Table 11: FFY 2016 Transit Project Information (cont.)

Other Non-Federal	PioneerValley Transit Authority	119308	Transit Enmnts: Signs/Lighting (Match for FY15)	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$0
Other Non-Federal	PioneerValley Transit Authority	117A00	Preventive Maintenance (Match for FY15)	\$0	\$0	\$0	\$0	\$0	\$425,895	\$0	\$425,895
Other Non-Federal	PioneerValley Transit Authority	117C00	NON FIXED ROUTE ADA PARA SERV - (Match for FY15)	\$0	\$0	\$0	\$0	\$0	\$298,853	\$0	\$298,853
Other Non-Federal	PioneerValley Transit Authority	114211	ACQUIRE - SUPPORT VEHICLES, (1) (Match for FY15)	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
Other Non-Federal	PioneerValley Transit Authority	114402	Environmental Compliance (Match for FY15)	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
Other Non-Federal	PioneerValley Transit Authority	114303	CONSTRUCT - Springfield O& M FACILITY	\$0	\$3,150,000	\$0	\$0	\$0	\$0	\$0	\$3,150,000
Other Non-Federal	PioneerValley Transit Authority	111301	BUY 40-FT BUS FOR EXPANSION (4) - Match for FY 15	\$0	\$395,640	\$0	\$0	\$0	\$0	\$0	\$395,640
Other Non-Federal	PioneerValley Transit Authority	111201	BUY REPLACEMENT 40-FT BUS (6) Match for FY 15	\$0	\$593,460	\$0	\$0	\$0	\$0	\$0	\$593,460
Other Non-Federal	PioneerValley Transit Authority	111202	BUY REPLACEMENT 35-FT BUS (5) - Match for FY15	\$0	\$489,549	\$0	\$0	\$0	\$0	\$0	\$489,549
Other Non-Federal	PioneerValley Transit Authority	442301	Planning (Match for FY15)	\$0	\$0	\$0	\$0	\$0	\$54,000	\$0	\$54,000
Other Non-Federal	PioneerValley Transit Authority	111301	BUY 40-FT BUS FOR EXPANSION (2) (Match for FY15)	\$0	\$203,195	\$0	\$0	\$0	\$0	\$0	\$203,195
Other Non-Federal	PioneerValley Transit Authority	111216	BUY REPL SEDAN/STA WGN (3) (Match for FY15)	\$0	\$16,800	\$0	\$0	\$0	\$0	\$0	\$16,800
Other Non-Federal	PioneerValley Transit Authority	113303	TERMINAL, INTERMODAL (TRANSIT) - WESTFIELD	\$0	\$154,063	\$0	\$0	\$0	\$0	\$0	\$154,063
Other Non-Federal	PioneerValley Transit Authority	114402	REHAB/RENOVATE - SATCO MAINTENANCE FACILITY	\$0	\$175,000	\$0	\$0	\$0	\$0	\$0	\$175,000
Other Non-Federal	PioneerValley Transit Authority	114402	Rehab/Renovations: Northampton (Match for FY15)	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	\$5,000
Other Non-Federal	PioneerValley Transit Authority	111301	BUY 40-FT BUS FOR EXPANSION (2) (Match for FY15)	\$0	\$196,805	\$0	\$0	\$0	\$0	\$0	\$196,805
Subtotal				\$0	\$8,353,212	\$0	\$0	\$0	\$778,748	\$0	\$9,131,960
Total				\$384,855	\$9,565,162	\$0	\$0	\$0	\$778,748	\$0	\$10,728,765

Table 12: FFY 2017 Transit Project Information

FTA Program	Transit Agency	FTA Activity Line Item	Project Description	Carryover or Earmark Detail	Federal Funds	RTACAP	MAP	ICB	TDC	SCA	Local Funds	Total Cost
5307	Pioneer Valley Transit Authority	114406	Purchase/Renovate Shop Equipment	2016	\$80,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$100,000
5307	Pioneer Valley Transit Authority	119302	Transit Enhancements: Shelters, benches, etc.	2016	\$60,000	\$15,000	\$0	\$0	\$0	\$0	\$0	\$75,000
5307	Pioneer Valley Transit Authority	119308	Transit Enhancements: Signs/Lighting	2016	\$8,000	\$2,000	\$0	\$0	\$0	\$0	\$0	\$10,000
5307	Pioneer Valley Transit Authority	114220	Rehab/Renovation: Communications Systems (ITS)	2016	\$3,000,785	\$1,164,877	\$0	\$0	\$0	\$0	\$0	\$4,165,662
5307	Pioneer Valley Transit Authority	442301	Planning	2016	\$236,000	\$0	\$0	\$0	\$0	\$59,000	\$0	\$295,000
5307	Pioneer Valley Transit Authority	117C00	ADA Operating Projects	2016	\$1,207,364	\$0	\$0	\$0	\$0	\$301,841	\$0	\$1,509,205
5307	Pioneer Valley Transit Authority	117A00	Preventive Maintenance	2016	\$2,500,000	\$0	\$0	\$0	\$0	\$625,000	\$0	\$3,125,000
5307	Pioneer Valley Transit Authority	111304	BUY <30-FT BUS FOR EXPANSION	2016	\$456,000	\$114,000	\$0	\$0	\$0	\$0	\$0	\$570,000
5307	Pioneer Valley Transit Authority	111216	BUY REPL SEDAN/STATION WAGON, (8)	2016	\$192,000	\$48,000	\$0	\$0	\$0	\$0	\$0	\$240,000
5307	Pioneer Valley Transit Authority	114402	REHAB/RENOVATE - Environmental Compliance	2016	\$120,000	\$30,000	\$0	\$0	\$0	\$0	\$0	\$150,000
5307	Pioneer Valley Transit Authority	119306	CONSTRUCT BICYCLE ACCESS, FACIL & EQUIP ON BUSES	2016	\$6,400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$8,000
5307	Pioneer Valley Transit Authority	114402	REHAB/RENOVATE - MAINTENANCE FACILITY, SATCO	2016	\$480,000	\$120,000	\$0	\$0	\$0	\$0	\$0	\$600,000
5307	Pioneer Valley Transit Authority	113303	TERMINAL, INTERMODAL (TRANSIT), Northampton, YR 1	2016	\$120,000	\$30,000	\$0	\$0	\$0	\$0	\$0	\$150,000
5307	Pioneer Valley Transit Authority	111306	Purchase - Expansion: Buses (8)	2016	\$3,296,000	\$824,000	\$0	\$0	\$0	\$0	\$0	\$4,120,000
5307	Pioneer Valley Transit Authority	111216	BUY REPL SEDAN/Vans (non accessible) (5)	2016	\$112,000	\$28,000	\$0	\$0	\$0	\$0	\$0	\$140,000
Subtotal					\$11,874,549	\$2,397,477	\$0	\$0	\$0	\$985,841	\$0	\$15,257,867

Table 13: FFY 2017 Transit Project Information (Continued)

5309			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5310			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5311			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5337			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5339			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5320			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Federal			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Non-Federal														
Other														
Non-Federal	Pioneer Valley Transit Authority	111215	Purchase - Replacement: Vans (20)	\$0	\$1,970,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,970,000
Other														
Non-Federal	Pioneer Valley Transit Authority	114302	CONSTRUCT - MAINT FACILITY, Spfld.O&M, Yr 3	\$0	\$44,200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$44,200,000
			Subtotal	\$0	\$46,170,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$46,170,000
			Total	\$11,874,549	\$48,567,477	\$0	\$0	\$0	\$0	\$985,841	\$0	\$0	\$0	\$61,427,867

Table 13: FFY 2018 Transit Project Information

FTA Program	Transit Agency	FTA Activity Line Item	Project Description	Carryover or Earmark Detail	Federal Funds	RTACAP	MAP	ICB	TDC	SCA	Local Funds	Total Cost
5307	Pioneer Valley Transit Authority	117A00	Preventive Maintenance	2017	\$2,500,000	\$0	\$0	\$0	\$0	\$625,000	\$0	\$3,125,000
5307	Pioneer Valley Transit Authority	117C00	ADA Operating Projects	2017	\$1,219,438	\$0	\$0	\$0	\$0	\$304,859	\$0	\$1,524,297
5307	Pioneer Valley Transit Authority	442301	Planning	2017	\$236,000	\$0	\$0	\$0	\$0	\$59,000	\$0	\$295,000
5307	Pioneer Valley Transit Authority	114406	Rehab/Renovation: Shop Equipment	2017	\$600,000	\$150,000	\$0	\$0	\$0	\$0	\$0	\$750,000
5307	Pioneer Valley Transit Authority	119302	Transit Enhancements: Shelters	2017	\$6,443	\$68,557	\$0	\$0	\$0	\$0	\$0	\$75,000
5307	Pioneer Valley Transit Authority	119308	Transit Enhancements: Signs/Lighting	2017	\$12,000	\$3,000	\$0	\$0	\$0	\$0	\$0	\$15,000
5307	Pioneer Valley Transit Authority	114220	Misc. Communications Systems and ITS	2017	\$3,129,215	\$782,304	\$0	\$0	\$0	\$0	\$0	\$3,911,519
5307	Pioneer Valley Transit Authority	111216	BUY REPL SEDAN/STATION WAGON, (6)	2017	\$144,000	\$36,000	\$0	\$0	\$0	\$0	\$0	\$180,000
5307	Pioneer Valley Transit Authority	114402	REHAB/RENOVATE - Environmental Compliance	2017	\$88,000	\$22,000	\$0	\$0	\$0	\$0	\$0	\$110,000
5307	Pioneer Valley Transit Authority	119306	CONSTRUCT BICYCLE ACCESS, FACIL & EQUIP ON BUSES	2017	\$9,600	\$2,400	\$0	\$0	\$0	\$0	\$0	\$12,000
5307	Pioneer Valley Transit Authority	113303	TERMINAL, INTERMODAL (TRANSIT), Northampton, Yr 2	2017	\$640,000	\$160,000	\$0	\$0	\$0	\$0	\$0	\$800,000
5307	Pioneer Valley Transit Authority	111201	BUY REPLACEMENT 40-FT BUS (10)	2017	\$3,029,003	\$757,250	\$0	\$0	\$0	\$0	\$0	\$3,786,253
5307	Pioneer Valley Transit Authority	111304	BUY <30-FT BUS FOR EXPANSION (2)	2017	\$152,000	\$38,000	\$0	\$0	\$0	\$0	\$0	\$190,000
Subtotal					\$11,765,699	\$2,019,511	\$0	\$0	\$0	\$988,859	\$0	\$14,774,069

Table 13: FFY 2018 Transit Project Information (Continued)

[illegible]

Table 14: FFY 2019 Transit Project Information

FTA Program	Transit Agency	FTA Activity Line Item	Project Description	Carryover or Earmark Detail	Federal Funds	RTACAP	MAP	ICB	TDC	SCA	Local Funds	Total Cost
5307	Pioneer Valley Transit Authority	111306	BUY ARTIC BUS FOR EXPANSION (8)	2018	\$782,701	\$2,706,487	\$0	\$0	\$0	\$0	\$0	\$3,489,188
5307	Pioneer Valley Transit Authority	111215	BUY REPLACEMENT VAN (20)	2018	\$1,672,000	\$418,000	\$0	\$0	\$0	\$0	\$0	\$2,090,000
5307	Pioneer Valley Transit Authority	114211	ACQUIRE - SUPPORT VEHICLES, (1)	2018	\$60,000	\$15,000	\$0	\$0	\$0	\$0	\$0	\$75,000
5307	Pioneer Valley Transit Authority	111216	BUY REPL SEDAN/STATION WAGON, (10)	2018	\$240,000	\$60,000	\$0	\$0	\$0	\$0	\$0	\$300,000
5307	Pioneer Valley Transit Authority	114406	REHAB/RENOVATE - SHOP EQUIPMENT	2018	\$240,000	\$60,000	\$0	\$0	\$0	\$0	\$0	\$300,000
5307	Pioneer Valley Transit Authority	114402	REHAB/RENOVATE - Environmental Compliance	2018	\$88,000	\$22,000	\$0	\$0	\$0	\$0	\$0	\$110,000
5307	Pioneer Valley Transit Authority	119302	CONSTRUCTION - BUS SHELTERS	2018	\$60,000	\$15,000	\$0	\$0	\$0	\$0	\$0	\$75,000
5307	Pioneer Valley Transit Authority	119308	CONSTRUCT SIGNAGE	2018	\$40,000	\$10,000	\$0	\$0	\$0	\$0	\$0	\$50,000
5307	Pioneer Valley Transit Authority	119306	CONSTRUCT BICYCLE ACCESS, FACIL & EQUIP ON BUSES	2018	\$4,800	\$1,200	\$0	\$0	\$0	\$0	\$0	\$6,000
5307	Pioneer Valley Transit Authority	116220	PURCHASE MISC COMMUNICATIONS EQUIP, IT systems	2018	\$2,975,797	\$743,949	\$0	\$0	\$0	\$0	\$0	\$3,719,746
5307	Pioneer Valley Transit Authority	442400	SHORT RANGE TRANSIT PLANNING	2018	\$232,000	\$0	\$0	\$0	\$0	\$58,000	\$0	\$290,000
5307	Pioneer Valley Transit Authority	117C00	NON FIXED ROUTE ADA PARA SERV	2018	\$1,231,632	\$0	\$0	\$0	\$0	\$307,908	\$0	\$1,539,540
5307	Pioneer Valley Transit Authority	117A00	PREVENTIVE MAINTENANCE	2018	\$2,500,000	\$0	\$0	\$0	\$0	\$625,000	\$0	\$3,125,000
Subtotal					\$10,126,930	\$4,051,636	\$0	\$0	\$0	\$990,908	\$0	\$15,169,474

VI. STATEWIDE FEDERAL AID PROJECT LISTING

The MassDOT provided each planning agency a listing of statewide items anticipated for FFY 2016 to 2019. These items are to be funded separately from the regional TIP program. This information is provided in the following Tables.

2016

Statewide Transportation Improvement Program

Americans with Disabilities Act and Stormwater Programs

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide ADA Retrofits Program							
607035	STATEWIDE	DISTRICT 1- ADA RETROFITS AT VARIOUS LOCATIONS	1	STP-TE	\$ 340,000	\$ 272,000	\$ 68,000
607036	STATEWIDE	DISTRICT 2- ADA RETROFITS AT VARIOUS LOCATIONS	2	STP-TE	\$ 740,000	\$ 592,000	\$ 148,000
Statewide ADA Subtotal ►					\$ 1,080,000	\$ 864,000	\$ 216,000
					Fed Aid Target	\$ 3,200,000	

2017

Statewide Transportation Improvement Program

Americans with Disabilities Act and Stormwater Programs

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds YOY ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide ADA Retrofits Program							
607038	STATEWIDE	DISTRICT 3- ADA RETROFITS AT VARIOUS LOCATIONS	3	STP-TE	\$ 600,000	\$ 480,000	\$ 120,000
607039	STATEWIDE	DISTRICT 4- ADA RETROFITS AT VARIOUS LOCATIONS	4	STP-TE	\$ 600,000	\$ 480,000	\$ 120,000
607041	STATEWIDE	DISTRICT 5- ADA RETROFITS AT VARIOUS LOCATIONS	5	STP-TE	\$ 575,000	\$ 460,000	\$ 115,000
607042	STATEWIDE	DISTRICT 6- ADA RETROFITS AT VARIOUS LOCATIONS	6	STP-TE	\$ 500,000	\$ 400,000	\$ 328,000
Statewide ADA Subtotal ►					\$ 2,275,000	\$ 1,820,000	\$ 683,000

2019

Statewide Transportation Improvement Program

Americans with Disabilities Act and Stormwater Programs

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds YOY ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide ADA Retrofits Program							
608825	STATEWIDE	DISTRICT 1- ADA RETROFITS AT VARIOUS LOCATIONS	1	STP-TE	\$ 600,000	\$ 480,000	\$ 120,000
608826	STATEWIDE	DISTRICT 2- ADA RETROFITS AT VARIOUS LOCATIONS	2	STP-TE	\$ 900,000	\$ 720,000	\$ 180,000
Statewide ADA Subtotal ►					\$ 1,500,000	\$ 1,200,000	\$ 300,000

2016 Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► Statewide Highway Safety Improvement Program

607495	STATEWIDE	STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE I)	SW	HSIP	\$ 5,161,000	\$ 4,644,900	\$ 516,100
SHSP	STATEWIDE	STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES	SW	HSIP	\$ 3,820,556	\$ 3,438,500	\$ 382,056
607960	MRPC	ASHBURNHAM- ROUTE 101 AT WILLIAMS AND COREY HILL ROAD, INTERSECTION IMPROVEMENTS	3	HSIPR	\$ 624,000	\$ 561,600	\$ 62,400
608024	STATEWIDE	STATEWIDE - CONVERSION OF INTERSTATE AND FREEWAY EXT NUMBERS TO MILEPOST-BASED	SW	HSIP	\$ 2,000,000	\$ 1,800,000	\$ 200,000
608170	CENTRAL MASS	STURBRIDGE- REHABILITATION & RELATED WORK ON BROOKFIELD ROAD(ROUTE 148), FROM MAIN STREET (MM 0.0) TO TOWN LINE (MM 3.4)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
608169	CENTRAL MASS	DUDLEY- REHABILITATION & RELATED WORK ON DRESSER HILL ROAD (ROUTE 31), FROM STATE LINE (MM 0.0) TO TOWN LINE (MM 4.1)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
608168	CENTRAL MASS	DOUGLAS- REHABILITATION & RELATED WORK ON WEBSTER STREET (ROUTE 16), FROM T.L. (MM 2.8) TO MAIN STREET (MM 6.9)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
607176	CENTRAL MASS	SHREWSBURY- NORTHBOROUGH- WESTBOROUGH- RESURFACING AND RELATED WORK ON ROUTE 9	3	HSIP	\$ 350,000	\$ 315,000	\$ 35,000
607918	CAPE CODE	SANDWICH TO ORLEANS - GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 6 (MID CAPE HIGHWAY)	5	HSIP	\$ 4,100,000	\$ 3,690,000	\$ 410,000
607753	CAPE CODE	BARNSTABLE- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 28 (FALMOUTH ROAD) AT STRAWBERRY HILL ROAD	5	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607745	BERKSHIRE	LENOX- INTERSECTION & SIGNAL IMPROVEMENTS AT US 7 & US 20 (VETERAN'S MEMORIAL HIGHWAY) @ SR 183 (WALKER STREET)	1	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607752	NORTHERN MIDDLESEX	LOWELL- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 113 (VARNUM AVENUE & VFW HIGHWAY) AT MAMMOTH ROAD & VFW AT AIKEN STREET	4	HSIP	\$ 1,100,000	\$ 990,000	\$ 110,000
607755	BOSTON	WEYMOUTH- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 53 (WASHINGTON STREET) AT MUTTON LANE & PLEASANT STREET	6	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607764	CMRPC	SHREWSBURY- INTERSECTION & SIGNAL IMPROVEMENT AT US 20 (HARTFORD TURNPIKE) AT GRAFTON STREET	3	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
606620	STATEWIDE	RAYNHAM TO BOLTON- GUIDE & TRAFFIC SIGN REPLACEMENT ON I-495	SW	HSIP	\$ 5,950,000	\$ 5,355,000	\$ 595,000
Statewide HSIP Subtotal ►					\$ 30,555,556	\$ 27,500,000	\$ 3,055,556

2017 Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide Highway Safety Improvement Program							
SHSP	STATEWIDE	STATEWIDE - VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES	SW	HSIP	\$ 5,470,444	\$ 4,923,400	\$ 547,044
607960	MONTACHU SETT	ASHBURNHAM- ROUTE 101 AT WILLIAMS AND COREY HILL ROAD, INTERSECTION IMPROVEMENTS	3	HSIP	\$ 624,000	\$ 561,600	\$ 62,400
607496	STATEWIDE	STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE II)	SW	HSIP	\$ 8,400,000	\$ 7,560,000	\$ 840,000
607916	STATEWIDE	FALL RIVER TO RANDOLPH- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE 24	5	HSIP	\$ 5,500,000	\$ 4,950,000	\$ 550,000
607736	PIONEER VALLEY	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET	2	HSIP	\$ 4,100,000	\$ 3,690,000	\$ 410,000
607754	BOSTON	MILTON- INTERSECTION & SIGNAL IMPROVEMENTS AT GRANITE AVENUE & SQUANTUM STREET	6	HSIP	\$ 350,000	\$ 315,000	\$ 35,000
Statewide HSIP Subtotal ►					\$ 24,444,444	\$ 22,000,000	\$ 2,444,444

2018 Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide Highway Safety Improvement Program							
HSIP	STATEWIDE	STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES	SW	HSIP	\$ 2,883,223	\$ 2,594,901	\$ 288,322
607917	CENTRAL MASS	AUBURN TO WORCESTER- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 290	SW	HSIP	\$ 4,200,000	\$ 3,780,000	\$ 420,000
607919	STATEWIDE	BOLTON TO LOWELL- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 495	SW	HSIP	\$ 2,700,000	\$ 2,430,000	\$ 270,000
607496	STATEWIDE	STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE II)	SW	HSIP	\$ 9,333,444	\$ 8,400,100	\$ 933,344
608204	STATEWIDE	ATTLEBORO TO NORWOOD - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 95	5	HSIP	\$ 4,000,000	\$ 3,600,000	\$ 400,000
607760	BERKSHIRE	PITTSFIELD- INTERSECTION & SIGNAL IMPROVEMENTS AT 3 LOCATIONS: SR 8 & SR 9 (DALTON AVENUE) @ MERRILL CHESHIRE ROAD, DALTON AVENUE @ CRANE AVENUE CONNECTOR & SR 9 (MERRILL ROAD) @ CRANE AVENUE CONNECTOR	1	HSIP	\$ 1,500,000	\$ 1,350,000	\$ 150,000
607748	BOSTON	ACTON- INTERSECTION & SIGNAL IMPROVEMENTS ON SR 2 & SR 111 (MASSACHUSETTS AVENUE) AT PIPER ROAD & TAYLOR ROAD	3	HSIP	\$ 1,500,000	\$ 1,350,000	\$ 150,000
607761	BOSTON	SWAMPSCOTT- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 1A (PARADISE ROAD) AT SWAMPSCOTT MALL	4	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
Statewide HSIP Subtotal ►					\$ 26,666,667	\$ 24,000,000	\$ 2,666,667

2019 Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► Statewide Highway Safety Improvement Program

HSIP	STATEWIDE	STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES	Statewide	HSIP	\$ 11,316,667	\$ 10,185,000	\$ 1,131,667
608205	BOSTON	READING TO LYNNFIELD - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 95 (STATE ROUTE 128)	4	HSIP	\$ 3,500,000	\$ 3,150,000	\$ 350,000
608187	MERRIMAC K VALLEY	HAVERHILL- MERRIMAC- AMESBURY- TRAFFIC & GUIDE SIGN REPLACEMENT ON A SECTION OF I-495	4	HSIP	\$ 2,100,000	\$ 1,890,000	\$ 210,000
608206	BOSTON	CHELSEA TO DANVERS - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 1	4	HSIP	\$ 5,900,000	\$ 5,310,000	\$ 590,000
607756	BERKSHIRE	GREAT BARRINGTON- INTERSECTION & SIGNAL IMPROVEMENTS ON US 7 (SOUTH MAIN STREET) AT SR 23 & SR 41 (MAPLE AVENUE)	1	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607757	CENTRAL MASS	WORCESTER- SIGNAL & INTERSECTION IMPROVEMENTS ON ROUTE SR 122A (PROVIDENCE STREET) AT MILLBURY STREET & MCKEON ROAD	3	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607759	BOSTON	BOSTON- INTERSECTION & SIGNAL IMPROVEMENTS AT THE VFW PARKWAY & SPRING STREET	6	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
608052	BOSTON	NORWOOD- INTERSECTION & SIGNAL IMPROVEMENTS AT US 1 (PROVIDENCE HIGHWAY) & MORSE STREET	5	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
608053	SOUTHEASTERN MASS	MANSFIELD- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 140 (COMMERCIAL STREET) & SR 106 (CHAUNCEY STREET)	5	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607763	BOSTON	MILTON- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 138 (BLUE HILL AVENUE) AT ATHONTON STREET & BRADLEE ROAD AND SR 138 (BLUE HILL AVENUE) AT MILTON STREET & DOLLAR LANE	6	HSIP	\$ 1,100,000	\$ 990,000	\$ 110,000
Statewide HSIP Subtotal ►					\$ 26,666,667	\$ 24,000,000	\$ 2,666,667

2016

Statewide Transportation Improvement Program

Interstate Maintenance and National Highway System Pr

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► IM - Interstate Maintenance

606577	STATEWIDE	HATFIELD- NORTHAMPTON- WHATLEY- INTERSTATE MAINTENANCE & RELATED WORK ON I-91, FROM MM 26.9 TO MM 34.4 (7.5 MILES)	2	NHPP	\$ 10,620,000	\$ 9,558,000	\$ 1,062,000
607182	PIONEER VALLEY	BERNARDSTON- GREENFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON ROUTE I-91, FROM MM 48.6 TO MM 50.4 (1.8 MILES)	2	NHPP	\$ 2,293,920	\$ 2,064,528	\$ 229,392
605592	CENTRAL MASS	STURBRIDGE- HOLLAND- INTERSTATE MAINTENANCE & RELATED WORK ON I-84	3	NHPP	\$ 15,133,500	\$ 13,620,150	\$ 1,513,350
607479	CENTRAL MASS	SHREWSBURY- BOYLSTON- NORTHBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-290	3	NHPP	\$ 13,168,800	\$ 11,851,920	\$ 1,316,880
606574	NORTHERN MIDDLESEX	ANDOVER NORTH ANDOVER - INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	4	NHPP	\$ 14,396,000	\$ 12,956,400	\$ 1,439,600
606176	BOSTON	FOXBOROUGH-PLAINVILLE-WRENTHAM-INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 1,604,800	\$ 1,444,320	\$ 160,480
608147	SOUTHEAST ERN MASS	NORTH ATTLEBOROUGH- INTERSTATE MAINTENANCE & RELATED WORK ON I-95	5	NHPP	\$ 2,039,040	\$ 1,835,136	\$ 203,904
IM Subtotal ►					\$ 59,256,060	\$ 53,330,454	\$ 5,925,606

► NHS - National Highway System

607175	OLD COLONY	PLYMOUTH- RESURFACING & RELATED WORK ON ROUTE 3	5	NHPP	\$ 14,252,040	\$ 11,401,632	\$ 2,850,408
607340	BOSTON	WELLESLEY- ROUTE 9 CORRIDOR ENHANCEMENTS	6	NHPP	\$ 7,327,800	\$ 5,862,240	\$ 1,465,560
607176	CENTRAL MASS	SHREWSBURY - WESTBOROUGH RESURFACING AND RELATED WORK ON ROUTE 9	3	NHPP	\$ 12,949,320	\$ 10,359,456	\$ 2,589,864
607488	BOSTON	SOUTHBOROUGH- RESURFACING & RELATED WORK ON ROUTE 9, FROM THE FRAMINGHAM T.I. TO WHITE BAGLEY ROAD	3	NHPP	\$ 3,791,340	\$ 3,033,072	\$ 758,268
607476	MERRIMACK VALLEY	METHUEN- RESURFACING & RELATED WORK ON ROUTE 213	4	NHPP	\$ 6,937,161	\$ 5,549,729	\$ 1,387,432
NHS Subtotal ►					\$ 45,257,661	\$ 36,206,129	\$ 9,051,532
NHPP Subtotal ►					\$ 104,513,721	\$ 89,536,583	\$ 14,977,138

Interstate Maintenance and National Highway System Projects

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► IM - Interstate Maintenance							
607478	FRANKLIN	DEERFIELD - GREENFIELD - WHATELY - INTERSTATE MAINTENANCE AND RELATED WORK ON I-91	2	NHPP	\$ 10,499,923	\$ 9,449,931	\$ 1,049,992
607562	CENTRAL MASS	WEBSTER- OXFORD- INTERSTATE MAINTENANCE & RELATED WORK ON I-395	3	NHPP	\$ 7,620,912	\$ 6,858,821	\$ 762,091
606575	MONTACHU SETT	STERLING- LANCASTER- LEOMINSTER- INTERSTATE MAINTENANCE & RELATED WORK ON I-190	3	NHPP	\$ 17,612,774	\$ 15,851,497	\$ 1,761,277
607561	MERRIMAC K VALLEY	ANDOVER- METHUEN- INTERSTATE MAINTENANCE & RELATED WORK ON I-93	4	NHPP	\$ 10,387,021	\$ 9,348,319	\$ 1,038,702
607481	BOSTON	RANDOLPH- QUINCY- BRAINTREE- RESURFACING & RELATED WORK ON I-93	6	NHPP	\$ 12,137,008	\$ 10,923,307	\$ 1,213,701
607563	CAPE COD	WAREHAM - ROCHESTER - MIDDLEBORO - INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 12,604,694	\$ 11,344,225	\$ 1,260,469
IM Subtotal ►					\$ 70,862,332	\$ 63,776,099	\$ 7,086,233

► NHS - National Highway System

607988	STATEWIDE	KINGSTON DUXBURY MARSHFIELD - RESURFACING AND RELATED WORK ON ROUTE 3	5	NHPP	\$ 15,713,069	\$ 12,570,455	\$ 3,142,614
608201	CAPE COD	HARWICH - BREWSTER - ORLEANS - RESURFACING AND RELATED WORK ON RT. 6	5	NHPP	\$ 6,506,614	\$ 5,205,292	\$ 1,301,323
607475	MONTACHU SETT	WINCHENDON- RESURFACING & RELATED WORK ON ROUTE 12, FROM MILL STREET/BEGINNING OF STATE HIGHWAY TO NEW HAMPSHIRE STATE LINE (2.5 MILES)	2	NHPP	\$ 1,879,150	\$ 1,503,320	\$ 375,830
608176	SOUTHEASTERN MASS	BERKLEY-RAYNHAM-TAUNTON- RESURFACING & RELATED WORK ON ROUTE 24	5	NHPP	\$ 11,466,711	\$ 9,173,369	\$ 2,293,342
607477	BOSTON	LYNNFIELD- PEABODY- RESURFACING & RELATED WORK ON ROUTE 1	4	NHPP	\$ 7,721,542	\$ 6,177,234	\$ 1,544,308
NHS Subtotal ►					\$ 43,287,087	\$ 34,629,670	\$ 8,657,417

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 98,405,769

Interstate Maintenance and National Highway System Projects

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► IM - Interstate Maintenance

607560	PIONEER VALLEY	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2	NHPP	\$ 11,989,555	\$ 10,790,600	\$ 1,198,956
608203	STATEWIDE	MARLBORO - HUDSON - BERLIN RESURFACING AND RELATED WORK ON I-495	3	NHPP	\$ 15,292,800	\$ 13,763,520	\$ 1,529,280
608207	PIONEER VALLEY	LONGMEADOW - SPRINGFIELD - RESURFACING AND RELATED WORK ON I-91	2	NHPP	\$ 13,763,520	\$ 12,387,168	\$ 1,376,352
607563	SOUTHEAS TERN MASS	WAREHAM- ROCHESTER- MIDDLEBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-495	5	NHPP	\$ 14,177,955	\$ 12,760,159	\$ 1,417,795
608219	BOSTON	READING-WAKEFIELD- INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK ON I-95	4	NHPP	\$ 4,638,816	\$ 4,174,934	\$ 463,882
607566	SOUTHEAS TERN MASS	SEEKONK- REHOBOTH- INTERSTATE MAINTENANCE & RELATED WORK ON I-195	5	NHPP	\$ 10,959,840	\$ 9,863,856	\$ 1,095,984
IM Subtotal ►					\$ 70,822,486	\$ 63,740,237	\$ 7,082,249

► NHS - National Highway System

608069	BOSTON	MARSHFIELD PEMBROKE NORWELL HANOVER ROCKLAND HINGHAM RESURFACING ON RT 3	5	NHPP	\$ 17,586,720	\$ 14,069,376	\$ 3,517,344
607474	PIONEER VALLEY	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	2	NHPP	\$ 1,988,064	\$ 1,590,451	\$ 397,613
605608	BOSTON	DEDHAM - RESURFACING AND RELATED WORK ON ROUTE 109	6	NHPP	\$ 2,523,312	\$ 2,018,650	\$ 504,662
608008	BOSTON	SAUGUS-RESURFACING AND RELATED WORK ON ROUTE 1	4	NHPP	\$ 10,597,910	\$ 8,478,328	\$ 2,119,582
608220	BOSTON	CONCORD - RESURFACING AND RELATED WORK ON ROUTE 2	4	NHPP	\$ 1,784,160	\$ 1,427,328	\$ 356,832
NHS Subtotal ►					\$ 34,480,166	\$ 27,584,133	\$ 6,896,033

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 91,324,371

Interstate Maintenance and National Highway System Projects

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► IM - Interstate Maintenance

608208	Boston	QUINCY - MILTON - BOSTON - INTERSTATE MAINTENANCE AND RELATED WORK ON I-93	6	NHPP	\$ 22,287,462	\$ 20,058,716	\$ 2,228,746
608209	Statewide	LITTLETON-WESTFORD- INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	3	NHPP	\$ 15,986,074	\$ 14,387,466	\$ 1,598,607
608210	Boston	FOXBOROUGH-PLAINVILLE-WRENTHAM-FRANKLIN-INTERSTAE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 29,392,384	\$ 26,453,146	\$ 2,939,238
608211	Pioneer Valley	CHICOPEE-SPRINGFIELD- RESURFACING AND RELATED WORK ON I-291	2	NHPP	\$ 11,545,498	\$ 10,390,948	\$ 1,154,550
IM Subtotal ▲					\$ 79,211,418	\$ 71,290,276	\$ 7,921,142

► NHS - National Highway System

608221	Boston	MARLBORO RESURFACING AND RELATED WORK ON ROUTE 20	3	NHPP	\$ 6,126,938	\$ 4,901,550	\$ 1,225,388
608222	Statewide	BOURNE - WAREHAM RESURFACING AND RELATED WORK ON ROUTE 25	5	NHPP	\$ 11,672,371	\$ 9,337,897	\$ 2,334,474
608223	Southeastern Mass	FALL RIVER RESURFACING AND RELATED WORK ON ROUTE 24 (EXCLUDES MM 3.9-4.5)	5	NHPP	\$ 9,134,899	\$ 7,307,919	\$ 1,826,980
NHS Subtotal ▲					\$ 26,934,208	\$ 21,547,366	\$ 5,386,842

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 92,837,642

2016 Statewide Transportation Improvement Program

Interstate Maintenance and National Highway System Pr

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► IM - Interstate Maintenance							
606577	STATEWIDE	HATFIELD- NORTHAMPTON- WHATELY- INTERSTATE MAINTENANCE & RELATED WORK ON I-91, FROM MM 26.9 TO MM 34.4 (7.5 MILES)	2	NHPP	\$ 10,620,000	\$ 9,558,000	\$ 1,062,000
607182	PIONEER VALLEY	BERNARDSTON- GREENFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON ROUTE I-91, FROM MM 48.6 TO MM 50.4 (1.8 MILES)	2	NHPP	\$ 2,293,920	\$ 2,064,528	\$ 229,392
605592	CENTRAL MASS	STURBRIDGE- HOLLAND- INTERSTATE MAINTENANCE & RELATED WORK ON I-84	3	NHPP	\$ 15,133,500	\$ 13,620,150	\$ 1,513,350
607479	CENTRAL MASS	SHREWSBURY- BOYLSTON- NORTHBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-290	3	NHPP	\$ 13,168,800	\$ 11,851,920	\$ 1,316,880
606574	NORTHERN MIDDLESEX	ANDOVER NORTH ANDOVER - INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	4	NHPP	\$ 14,396,000	\$ 12,956,400	\$ 1,439,600
606176	BOSTON	FOXBOROUGH-PLAINVILLE-WRENTHAM-INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 1,604,800	\$ 1,444,320	\$ 160,480
608147	SOUTHEASTERN MASS	NORTH ATTLEBOROUGH- INTERSTATE MAINTENANCE & RELATED WORK ON I-95	5	NHPP	\$ 2,039,040	\$ 1,835,136	\$ 203,904
IM Subtotal ►					\$ 59,256,060	\$ 53,330,454	\$ 5,925,606

► NHS - National Highway System

607175	OLD COLONY	PLYMOUTH- RESURFACING & RELATED WORK ON ROUTE 3	5	NHPP	\$ 14,252,040	\$ 11,401,632	\$ 2,850,408
607340	BOSTON	WELLESLEY- ROUTE 9 CORRIDOR ENHANCEMENTS	6	NHPP	\$ 7,327,800	\$ 5,862,240	\$ 1,465,560
607176	CENTRAL MASS	SHREWSBURY - WESTBOROUGH RESURFACING AND RELATED WORK ON ROUTE 9	3	NHPP	\$ 12,949,320	\$ 10,359,456	\$ 2,589,864
607488	BOSTON	SOUTHBOROUGH- RESURFACING & RELATED WORK ON ROUTE 9, FROM THE FRAMINGHAM T.I. TO WHITE BAGLEY ROAD	3	NHPP	\$ 3,791,340	\$ 3,033,072	\$ 758,268
607476	MERRIMACK VALLEY	METHUEN- RESURFACING & RELATED WORK ON ROUTE 213	4	NHPP	\$ 6,937,161	\$ 5,549,729	\$ 1,387,432
NHS Subtotal ►					\$ 45,257,661	\$ 36,206,129	\$ 9,051,532
NHPP Subtotal ►					\$ 104,513,721	\$ 89,536,583	\$ 14,977,138

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 89,536,583

Interstate Maintenance and National Highway System Pr

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► IM - Interstate Maintenance

607478	FRANKLIN	DEERFIELD - GREENFIELD - WHATELY - INTERSTATE MAINTENANCE AND RELATED WORK ON I-91	2	NHPP	\$ 10,499,923	\$ 9,449,931	\$ 1,049,992
607562	CENTRAL MASS	WEBSTER- OXFORD- INTERSTATE MAINTENANCE & RELATED WORK ON I-395	3	NHPP	\$ 7,620,912	\$ 6,858,821	\$ 762,091
606575	MONTACHU SETT	STERLING- LANCASTER- LEOMINSTER- INTERSTATE MAINTENANCE & RELATED WORK ON I-190	3	NHPP	\$ 17,612,774	\$ 15,851,497	\$ 1,761,277
607561	MERRIMAC K VALLEY	ANDOVER- METHUEN- INTERSTATE MAINTENANCE & RELATED WORK ON I-93	4	NHPP	\$ 10,387,021	\$ 9,348,319	\$ 1,038,702
607481	BOSTON	RANDOLPH- QUINCY- BRAINTREE- RESURFACING & RELATED WORK ON I-93	6	NHPP	\$ 12,137,008	\$ 10,923,307	\$ 1,213,701
607563	CAPE COD	WAREHAM - ROCHESTER - MIDDLEBORO - INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 12,604,694	\$ 11,344,225	\$ 1,260,469
IM Subtotal ►					\$ 70,862,332	\$ 63,776,099	\$ 7,086,233

► NHS - National Highway System

607988	STATEWIDE	KINGSTON DUXBURY MARSHFIELD - RESURFACING AND RELATED WORK ON ROUTE 3	5	NHPP	\$ 15,713,069	\$ 12,570,455	\$ 3,142,614
608201	CAPE COD	HARWICH - BREWSTER - ORLEANS - RESURFACING AND RELATED WORK ON RT. 6	5	NHPP	\$ 6,506,614	\$ 5,205,292	\$ 1,301,323
607475	MONTACHU SETT	WINCHENDON- RESURFACING & RELATED WORK ON ROUTE 12, FROM MILL STREET/BEGINNING OF STATE HIGHWAY TO NEW HAMPSHIRE STATE LINE (2.5 MILES)	2	NHPP	\$ 1,879,150	\$ 1,503,320	\$ 375,830
608176	SOUTHEASTERN MASS	BERKLEY-RAYNHAM-TAUNTON- RESURFACING & RELATED WORK ON ROUTE 24	5	NHPP	\$ 11,466,711	\$ 9,173,369	\$ 2,293,342
607477	BOSTON	LYNNFIELD- PEABODY- RESURFACING & RELATED WORK ON ROUTE 1	4	NHPP	\$ 7,721,542	\$ 6,177,234	\$ 1,544,308
NHS Subtotal ►					\$ 43,287,087	\$ 34,629,670	\$ 8,657,417

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 98,405,769

Interstate Maintenance and National Highway System Projects

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► IM - Interstate Maintenance

607560	PIONEER VALLEY	CHICOPEE - HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2	NHPP	\$ 11,989,555	\$ 10,790,600	\$ 1,198,956
608203	STATEWIDE	MARLBORO - HUDSON - BERLIN RESURFACING AND RELATED WORK ON I-495	3	NHPP	\$ 15,292,800	\$ 13,763,520	\$ 1,529,280
608207	PIONEER VALLEY	LONGMEADOW - SPRINGFIELD - RESURFACING AND RELATED WORK ON I-91	2	NHPP	\$ 13,763,520	\$ 12,387,168	\$ 1,376,352
607563	SOUTHEAS TERN MASS	WAREHAM- ROCHESTER- MIDDLEBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-495	5	NHPP	\$ 14,177,955	\$ 12,760,159	\$ 1,417,795
608219	BOSTON	READING-WAKEFIELD- INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK ON I-95	4	NHPP	\$ 4,638,816	\$ 4,174,934	\$ 463,882
607566	SOUTHEAS TERN MASS	SEEKONK- REHOBOTH- INTERSTATE MAINTENANCE & RELATED WORK ON I-195	5	NHPP	\$ 10,959,840	\$ 9,863,856	\$ 1,095,984
IM Subtotal ►					\$ 70,822,486	\$ 63,740,237	\$ 7,082,249

► NHS - National Highway System

608069	BOSTON	MARSHFIELD PEMBROKE NORWELL HANOVER ROCKLAND HINGHAM RESURFACING ON RT 3	5	NHPP	\$ 17,586,720	\$ 14,069,376	\$ 3,517,344
607474	PIONEER VALLEY	GRANBY - SOUTH HADLEY - RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	2	NHPP	\$ 1,988,064	\$ 1,590,451	\$ 397,613
605608	BOSTON	DEDHAM - RESURFACING AND RELATED WORK ON ROUTE 109	6	NHPP	\$ 2,523,312	\$ 2,018,650	\$ 504,662
608008	BOSTON	SAUGUS-RESURFACING AND RELATED WORK ON ROUTE 1	4	NHPP	\$ 10,597,910	\$ 8,478,328	\$ 2,119,582
608220	BOSTON	CONCORD - RESURFACING AND RELATED WORK ON ROUTE 2	4	NHPP	\$ 1,784,160	\$ 1,427,328	\$ 356,832
NHS Subtotal ►					\$ 34,480,166	\$ 27,584,133	\$ 6,896,033

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 91,324,371

Interstate Maintenance and National Highway System Projects

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► IM - Interstate Maintenance

608208	Boston	QUINCY - MILTON - BOSTON - INTERSTATE MAINTENANCE AND RELATED WORK ON I-93	6	NHPP	\$ 22,287,462	\$ 20,058,716	\$ 2,228,746
608209	Statewide	LITTLETON-WESTFORD- INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	3	NHPP	\$ 15,986,074	\$ 14,387,466	\$ 1,598,607
608210	Boston	FOXBOROUGH-PLAINVILLE-WRENTHAM-FRANKLIN- INTERSTAE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 29,392,384	\$ 26,453,146	\$ 2,939,238
608211	Pioneer Valley	CHICOPEE-SPRINGFIELD- RESURFACING AND RELATED WORK ON I-291	2	NHPP	\$ 11,545,498	\$ 10,390,948	\$ 1,154,550
IM Subtotal ►					\$ 79,211,418	\$ 71,290,276	\$ 7,921,142

► NHS - National Highway System

608221	Boston	MARLBORO RESURFACING AND RELATED WORK ON ROUTE 20	3	NHPP	\$ 6,126,938	\$ 4,901,550	\$ 1,225,388
608222	Statewide	BOURNE - WAREHAM RESURFACING AND RELATED WORK ON ROUTE 25	5	NHPP	\$ 11,672,371	\$ 9,337,897	\$ 2,334,474
608223	Southeastern Mass	FALL RIVER RESURFACING AND RELATED WORK ON ROUTE 24 (EXCLUDES MM 3.9-4.5)	5	NHPP	\$ 9,134,899	\$ 7,307,919	\$ 1,826,980
NHS Subtotal ►					\$ 26,934,208	\$ 21,547,366	\$ 5,386,842

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 92,837,642

Intelligent Transportation Systems

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► Statewide Intelligent Transportation Systems

607424	Statewide	STATEWIDE- ITS ADVANCED TRANSPORTATION MANAGEMENT SYSTEM (ATMS) SOFTWARE	SW	CMAQ	\$ 731,000	\$ 584,800	\$ 146,200
607483	Statewide	DISTRICT 5- ITS CAMERA & VMS CONSTRUCTION ON ROUTE 24, FROM RANDOLPH TO FALL RIVER (39	SW	CMAQ	\$ 3,778,000	\$ 3,022,400	\$ 755,600
607484	Statewide	DISTRICT 3- INSTALLATION OF CCTV CAMERAS AND VMS ON I-290 BETWEEN I-495 AND I-90	SW	CMAQ	\$ 4,040,000	\$ 3,232,000	\$ 808,000
607482	Statewide	DISTRICT 5&6- ITS CONSTRUCTION ON ROUTE 3, FROM BRAINTREE TO PLYMOUTH (42 MILES)	SW	CMAQ	\$ 87,000	\$ 69,600	\$ 17,400
606927	Statewide	STATEWIDE- REPLACEMENT OF VARIABLE MESSAGE SIGNS (VMS)	SW	CMAQ	\$ 3,464,000	\$ 2,771,200	\$ 692,800
Statewide ITS Capital Subtotal ►					\$ 12,100,000	\$ 9,680,000	\$ 2,420,000
					Fed Aid Target	\$ 9,680,000	
					Difference	\$ -	
					Constrained?	Yes	

608031	Statewide	STATEWIDE ITS DESIGN CONSULTANT SERVICES	SW	STP	\$ 1,000,000	\$ 800,000	\$ 200,000
Statewide ITS Operations Subtotal ►					\$ 1,000,000	\$ 800,000	\$ 200,000
					Fed Aid Target	\$ 800,000	

2017

Statewide Transportation Improvement Program

Intelligent Transportation Systems

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds with 4% adjustment for inflation ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► Statewide Intelligent Transportation Systems

607482	Statewide	DISTRICT 5&6- ITS CONSTRUCTION ON ROUTE 3, FROM BRAINTREE TO PLYMOUTH (42 MILES)	SW	CMAQ	\$ 6,250,000	\$ 5,000,000	\$ 1,250,000
606936	Statewide	STATEWIDE- EXPANSION OF CCTV, VMS AND THE TRAFFIC SENSOR NETWORK	SW	CMAQ	\$ 5,000,000	\$ 4,000,000	\$ 1,000,000
608140	Statewide	DISTRICT 5,6 ITS CONSTRUCTION ON I-95 FROM CANTON TO ATTLEBORO 26.7 MILES	SW	CMAQ	\$ 5,000,000	\$ 4,000,000	\$ 1,000,000
608139	Statewide	RTTM EXPANSION/ENHANCEMENT DISTRICTS 1-6	SW	CMAQ	\$ 1,750,000	\$ 1,400,000	\$ 350,000
Statewide ITS Capital Subtotal ►					\$ 18,000,000	\$ 14,400,000	\$ 3,600,000

2018

Statewide Transportation Improvement Program

Intelligent Transportation Systems

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds with 8% adjustment for inflation ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► Statewide Intelligent Transportation Systems

608140	Statewide	DISTRICT 5&6 ITS CANTON TO ATTLEBORO	SW	CMAQ	\$ 1,250,000	\$ 1,000,000	\$ 250,000
606938	Statewide	STATEWIDE ITS EXPANSION INCLUDING ROUTE 9	SW	CMAQ	\$ 7,500,000	\$ 6,000,000	\$ 1,500,000
608141	Statewide	DISTRICT 4 & 6 ITS I-95 SALISBURY TO PEABODY RT1 SAUGUS	SW	CMAQ	\$ 6,150,000	\$ 4,920,000	\$ 1,230,000
Statewide ITS Capital Subtotal ►					\$ 14,900,000	\$ 11,920,000	\$ 2,980,000

Intelligent Transportation Systems

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds with 12% adjustment for inflation ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► Statewide Intelligent Transportation Systems

607487	Statewide	STATEWIDE ITS EXPANSION	SW	CMAQ	\$ 19,375,000	\$ 15,500,000	\$ 3,875,000
608141	Statewide	DISTRICT 4 & 6 ITS I-95 SALISBURY TO PEABODY RT1 SAUGUS	SW	CMAQ	\$ 5,625,000	\$ 4,500,000	\$ 1,125,000
Statewide ITS Capital Subtotal ►					\$ 25,000,000	\$ 20,000,000	\$ 5,000,000

2016 Statewide Transportation Improvement Program

Infrastructure, Regional and Statewide						
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼ Non-Federal Funds ▼

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

► Statewide Infrastructure Program

603917	BOSTON	MEDFORD- STONEHAM- WOBURN- READING- HIGHWAY LIGHTING REHABILITATION ON I-93 (PHASE II)	4	STP	\$ 15,000,000	\$ 12,000,000 \$ 3,000,000
605733	BOSTON	DISTRICT 6- HIGHWAY LIGHTING SYSTEM REPLACEMENT ON I-93, FROM SOUTHAMPTON STREET TO NEPONSET AVENUE IN BOSTON	6	STP	\$ 2,500,000	\$ 2,000,000 \$ 500,000
Statewide Infrastructure Subtotal ▲					\$ 17,500,000	\$ 14,000,000 \$ 3,500,000

2017 Statewide Transportation Improvement Program

Infrastructure, Regional and Statewide						
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼ Non-Federal Funds ▼

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

► Statewide Infrastructure Program

603917	BOSTON	MEDFORD- STONEHAM- WOBURN- READING- HIGHWAY LIGHTING REHABILITATION ON I-93 (PHASE II)	4	STP	\$ 2,500,000	\$ 2,000,000 \$ 500,000
605733	BOSTON	DISTRICT 6- HIGHWAY LIGHTING SYSTEM REPLACEMENT ON I-93, FROM SOUTHAMPTON STREET TO NEPONSET AVENUE IN BOSTON	6	STP	\$ 4,500,000	\$ 3,600,000 \$ 900,000
Statewide Infrastructure Subtotal ▲					\$ 7,000,000	\$ 5,600,000 \$ 1,400,000

2018

Statewide Transportation Improvement Program

Infrastructure, Regional and Statewide

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide Infrastructure Program							
605733	BOSTON	DISTRICT 6- HIGHWAY LIGHTING SYSTEM REPLACEMENT ON I-93, FROM SOUTHAMPTON STREET TO NEPONSET AVENUE IN BOSTON	6	STP	\$ 1,250,000	\$ 1,000,000	\$ 250,000
606381	BOSTON	ARLINGTON- BELMONT- HIGHWAY LIGHTING REPAIR & MAINTENANCE ON ROUTE 2	4	STP	\$ 5,750,000	\$ 4,600,000	\$ 1,150,000
Statewide Infrastructure Subtotal ►					\$ 7,000,000	\$ 5,600,000	\$ 1,400,000

2019

Statewide Transportation Improvement Program

Infrastructure, Regional and Statewide

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide Infrastructure Program							
606381	BOSTON	ARLINGTON- BELMONT- HIGHWAY LIGHTING REPAIR & MAINTENANCE ON ROUTE 2	4	STP	\$ 3,700,000	\$ 2,960,000	\$ 740,000
Statewide Infrastructure Subtotal ►					\$ 3,700,000	\$ 2,960,000	\$ 740,000

2016 Statewide Transportation Improvement Program

Interstate Maintenance and National Highway System Pr

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► IM - Interstate Maintenance							
606577	STATEWIDE	HATFIELD- NORTHAMPTON- WHATELY- INTERSTATE MAINTENANCE & RELATED WORK ON I-91, FROM MM 26.9 TO MM 34.4 (7.5 MILES)	2	NHPP	\$ 10,620,000	\$ 9,558,000	\$ 1,062,000
607182	PIONEER VALLEY	BERNARDSTON- GREENFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON ROUTE I-91, FROM MM 48.6 TO MM 50.4 (1.8 MILES)	2	NHPP	\$ 2,293,920	\$ 2,064,528	\$ 229,392
605592	CENTRAL MASS	STURBRIDGE- HOLLAND- INTERSTATE MAINTENANCE & RELATED WORK ON I-84	3	NHPP	\$ 15,133,500	\$ 13,620,150	\$ 1,513,350
607479	CENTRAL MASS	SHREWSBURY- BOYLSTON- NORTHBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-290	3	NHPP	\$ 13,168,800	\$ 11,851,920	\$ 1,316,880
606574	NORTHERN MIDDLESEX	ANDOVER NORTH ANDOVER - INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	4	NHPP	\$ 14,396,000	\$ 12,956,400	\$ 1,439,600
606176	BOSTON	FOXBOROUGH-PLAINVILLE-WRENTHAM-INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 1,604,800	\$ 1,444,320	\$ 160,480
608147	SOUTHEAST ERN MASS	NORTH ATTLEBOROUGH- INTERSTATE MAINTENANCE & RELATED WORK ON I-95	5	NHPP	\$ 2,039,040	\$ 1,835,136	\$ 203,904
IM Subtotal ►					\$ 59,256,060	\$ 53,330,454	\$ 5,925,606

► NHS - National Highway System

607175	OLD COLONY	PLYMOUTH- RESURFACING & RELATED WORK ON ROUTE 3	5	NHPP	\$ 14,252,040	\$ 11,401,632	\$ 2,850,408
607340	BOSTON	WELLESLEY - ROUTE 9 CORRIDOR ENHANCEMENTS	6	NHPP	\$ 7,327,800	\$ 5,862,240	\$ 1,465,560
607176	CENTRAL MASS	SHREWSBURY - WESTBOROUGH RESURFACING AND RELATED WORK ON ROUTE 9	3	NHPP	\$ 12,949,320	\$ 10,359,456	\$ 2,589,864
607488	BOSTON	SOUTHBOROUGH- RESURFACING & RELATED WORK ON ROUTE 9, FROM THE FRAMINGHAM T.I. TO WHITE BAGLEY ROAD	3	NHPP	\$ 3,791,340	\$ 3,033,072	\$ 758,268
607476	MERRIMAC K VALLEY	METHUEN- RESURFACING & RELATED WORK ON ROUTE 213	4	NHPP	\$ 6,937,161	\$ 5,549,729	\$ 1,387,432
NHS Subtotal ►					\$ 45,257,661	\$ 36,206,129	\$ 9,051,532
NHPP Subtotal ►					\$ 104,513,721	\$ 89,536,583	\$ 14,977,138

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 89,536,583

Interstate Maintenance and National Highway System Pr

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► IM - Interstate Maintenance							
607478	FRANKLIN	DEERFIELD - GREENFIELD - WHATLEY - INTERSTATE MAINTENANCE AND RELATED WORK ON I-91	2	NHPP	\$ 10,499,923	\$ 9,449,931	\$ 1,049,992
607562	CENTRAL MASS	WEBSTER- OXFORD- INTERSTATE MAINTENANCE & RELATED WORK ON I-395	3	NHPP	\$ 7,620,912	\$ 6,858,821	\$ 762,091
606575	MONTACHU SETT	STERLING- LANCASTER- LEOMINSTER- INTERSTATE MAINTENANCE & RELATED WORK ON I-190	3	NHPP	\$ 17,612,774	\$ 15,851,497	\$ 1,761,277
607561	MERRIMAC K VALLEY	ANDOVER- METHUEN- INTERSTATE MAINTENANCE & RELATED WORK ON I-93	4	NHPP	\$ 10,387,021	\$ 9,348,319	\$ 1,038,702
607481	BOSTON	RANDOLPH- QUINCY- BRAINTREE- RESURFACING & RELATED WORK ON I-93	6	NHPP	\$ 12,137,008	\$ 10,923,307	\$ 1,213,701
607563	CAPE COD	WAREHAM - ROCHESTER - MIDDLEBORO - INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 12,604,694	\$ 11,344,225	\$ 1,260,469
IM Subtotal ►					\$ 70,862,332	\$ 63,776,099	\$ 7,086,233

► NHS - National Highway System

607988	STATEWIDE	KINGSTON DUXBURY MARSHFIELD - RESURFACING AND RELATED WORK ON ROUTE 3	5	NHPP	\$ 15,713,069	\$ 12,570,455	\$ 3,142,614
608201	CAPE COD	HARWICH - BREWSTER - ORLEANS - RESURFACING AND RELATED WORK ON RT. 6	5	NHPP	\$ 6,506,614	\$ 5,205,292	\$ 1,301,323
607475	MONTACHU SETT	WINCHENDON- RESURFACING & RELATED WORK ON ROUTE 12, FROM MILL STREET/BEGINNING OF STATE HIGHWAY TO NEW HAMPSHIRE STATE LINE (2.5 MILES)	2	NHPP	\$ 1,879,150	\$ 1,503,320	\$ 375,830
608176	SOUTHEAS TERN MASS	BERKLEY-RAYNHAM-TAUNTON- RESURFACING & RELATED WORK ON ROUTE 24	5	NHPP	\$ 11,466,711	\$ 9,173,369	\$ 2,293,342
607477	BOSTON	LYNNFIELD- PEABODY- RESURFACING & RELATED WORK ON ROUTE 1	4	NHPP	\$ 7,721,542	\$ 6,177,234	\$ 1,544,308
NHS Subtotal ►					\$ 43,287,087	\$ 34,629,670	\$ 8,657,417

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 98,405,769

Interstate Maintenance and National Highway System Projects

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► IM - Interstate Maintenance

607560	PIONEER VALLEY	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2	NHPP	\$ 11,989,555	\$ 10,790,600	\$ 1,198,956
608203	STATEWIDE	MARLBORO - HUDSON - BERLIN RESURFACING AND RELATED WORK ON I-495	3	NHPP	\$ 15,292,800	\$ 13,763,520	\$ 1,529,280
608207	PIONEER VALLEY	LONGMEADOW - SPRINGFIELD - RESURFACING AND RELATED WORK ON I-91	2	NHPP	\$ 13,763,520	\$ 12,387,168	\$ 1,376,352
607563	SOUTHEASTERN MASS	WAREHAM- ROCHESTER- MIDDLEBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-495	5	NHPP	\$ 14,177,955	\$ 12,760,159	\$ 1,417,795
608219	BOSTON	READING-WAKEFIELD- INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK ON I-95	4	NHPP	\$ 4,638,816	\$ 4,174,934	\$ 463,882
607566	SOUTHEASTERN MASS	SEEKONK- REHOBOTH- INTERSTATE MAINTENANCE & RELATED WORK ON I-195	5	NHPP	\$ 10,959,840	\$ 9,863,856	\$ 1,095,984
IM Subtotal ►					\$ 70,822,486	\$ 63,740,237	\$ 7,082,249

► NHS - National Highway System

608069	BOSTON	MARSHFIELD PEMBROKE NORWELL HANOVER ROCKLAND HINGHAM RESURFACING ON RT 3	5	NHPP	\$ 17,586,720	\$ 14,069,376	\$ 3,517,344
607474	PIONEER VALLEY	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	2	NHPP	\$ 1,988,064	\$ 1,590,451	\$ 397,613
605608	BOSTON	DEDHAM - RESURFACING AND RELATED WORK ON ROUTE 109	6	NHPP	\$ 2,523,312	\$ 2,018,650	\$ 504,662
608008	BOSTON	SAUGUS-RESURFACING AND RELATED WORK ON ROUTE 1	4	NHPP	\$ 10,597,910	\$ 8,478,328	\$ 2,119,582
608220	BOSTON	CONCORD - RESURFACING AND RELATED WORK ON ROUTE 2	4	NHPP	\$ 1,784,160	\$ 1,427,328	\$ 356,832
NHS Subtotal ►					\$ 34,480,166	\$ 27,584,133	\$ 6,896,033

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 91,324,371

Interstate Maintenance and National Highway System Projects

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► IM - Interstate Maintenance							
608208	Boston	QUINCY - MILTON - BOSTON - INTERSTATE MAINTENANCE AND RELATED WORK ON I-93	6	NHPP	\$ 22,287,462	\$ 20,058,716	\$ 2,228,746
608209	Statewide	LITTLETON-WESTFORD- INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	3	NHPP	\$ 15,986,074	\$ 14,387,466	\$ 1,598,607
608210	Boston	FOXBOROUGH-PLAINVILLE-WRENTHAM-FRANKLIN-INTERSTAE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 29,392,384	\$ 26,453,146	\$ 2,939,238
608211	Pioneer Valley	CHICOPEE-SPRINGFIELD- RESURFACING AND RELATED WORK ON I-291	2	NHPP	\$ 11,545,498	\$ 10,390,948	\$ 1,154,550
IM Subtotal ►					\$ 79,211,418	\$ 71,290,276	\$ 7,921,142
► NHS - National Highway System							
608221	Boston	MARLBORO RESURFACING AND RELATED WORK ON ROUTE 20	3	NHPP	\$ 6,126,938	\$ 4,901,550	\$ 1,225,388
608222	Statewide	BOURNE - WAREHAM RESURFACING AND RELATED WORK ON ROUTE 25	5	NHPP	\$ 11,672,371	\$ 9,337,897	\$ 2,334,474
608223	Southeastern Mass	FALL RIVER RESURFACING AND RELATED WORK ON ROUTE 24 (EXCLUDES MM 3.9-4.5)	5	NHPP	\$ 9,134,899	\$ 7,307,919	\$ 1,826,980
NHS Subtotal ►					\$ 26,934,208	\$ 21,547,366	\$ 5,386,842

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 92,837,642

2016 Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► Statewide Highway Safety Improvement Program

607495	STATEWIDE	STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE I)	SW	HSIP	\$ 5,161,000	\$ 4,644,900	\$ 516,100
SHSP	STATEWIDE	STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES	SW	HSIP	\$ 3,820,556	\$ 3,438,500	\$ 382,056
607960	MRPC	ASHBURNHAM- ROUTE 101 AT WILLIAMS AND COREY HILL ROAD, INTERSECTION IMPROVEMENTS	3	HSIPR	\$ 624,000	\$ 561,600	\$ 62,400
608024	STATEWIDE	STATEWIDE - CONVERSION OF INTERSTATE AND FREEWAY EXIT NUMBERS TO MILEPOST-BASED	SW	HSIP	\$ 2,000,000	\$ 1,800,000	\$ 200,000
608170	CENTRAL MASS	STURBRIDGE- REHABILITATION & RELATED WORK ON BROOKFIELD ROAD(ROUTE 148), FROM MAIN STREET (MM 0.0) TO TOWN LINE (MM 3.4)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
608169	CENTRAL MASS	DUDLEY- REHABILITATION & RELATED WORK ON DRESSER HILL ROAD (ROUTE 31), FROM STATE LINE (MM 0.0) TO TOWN LINE (MM 4.1)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
608168	CENTRAL MASS	DOUGLAS- REHABILITATION & RELATED WORK ON WEBSTER STREET (ROUTE 16), FROM T.L. (MM 2.8) TO MAIN STREET (MM 6.9)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
607176	CENTRAL MASS	SHREWSBURY- NORTHBOROUGH- WESTBOROUGH- RESURFACING AND RELATED WORK ON ROUTE 9	3	HSIP	\$ 350,000	\$ 315,000	\$ 35,000
607918	CAPE CODE	SANDWICH TO ORLEANS - GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 6 (MID CAPE HIGHWAY)	5	HSIP	\$ 4,100,000	\$ 3,690,000	\$ 410,000
607753	CAPE CODE	BARNSTABLE- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 28 (FALMOUTH ROAD) AT STRAWBERRY HILL ROAD	5	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607745	BERKSHIRE	LENEX- INTERSECTION & SIGNAL IMPROVEMENTS AT US 7 & US 20 (VETERAN'S MEMORIAL HIGHWAY) @ SR 183 (WALKER STREET)	1	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607752	NORTHERN MIDDLESEX	LOWELL- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 113 (VARNUM AVENUE & VFW HIGHWAY) AT MAMMOTH ROAD & VFW AT AIKEN STREET	4	HSIP	\$ 1,100,000	\$ 990,000	\$ 110,000
607755	BOSTON	WEYMOUTH- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 53 (WASHINGTON STREET) AT MUTTON LANE & PLEASANT STREET	6	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607764	CMRPC	SHREWSBURY- INTERSECTION & SIGNAL IMPROVEMENT AT US 20 (HARTFORD TURNPIKE) AT GRAFTON STREET	3	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
606620	STATEWIDE	RAYNHAM TO BOLTON- GUIDE & TRAFFIC SIGN REPLACEMENT ON I-495	SW	HSIP	\$ 5,950,000	\$ 5,355,000	\$ 595,000
Statewide HSIP Subtotal ►					\$ 30,555,556	\$ 27,500,000	\$ 3,055,556

2017

Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide Highway Safety Improvement Program							
SHSP	STATEWIDE	STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES	SW	HSIP	\$ 5,470,444	\$ 4,923,400	\$ 547,044
607960	MONTACHU SETT	ASHBURNHAM- ROUTE 101 AT WILLIAMS AND COREY HILL ROAD, INTERSECTION IMPROVEMENTS	3	HSIP	\$ 624,000	\$ 561,600	\$ 62,400
607496	STATEWIDE	STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE II)	SW	HSIP	\$ 8,400,000	\$ 7,560,000	\$ 840,000
607916	STATEWIDE	FALL RIVER TO RANDOLPH- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE 24	5	HSIP	\$ 5,500,000	\$ 4,950,000	\$ 550,000
607736	PIONEER VALLEY	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET	2	HSIP	\$ 4,100,000	\$ 3,690,000	\$ 410,000
607754	BOSTON	MILTON- INTERSECTION & SIGNAL IMPROVEMENTS AT GRANITE AVENUE & SQUANTUM STREET	6	HSIP	\$ 350,000	\$ 315,000	\$ 35,000
Statewide HSIP Subtotal ►					\$ 24,444,444	\$ 22,000,000	\$ 2,444,444

2018 Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide Highway Safety Improvement Program							
HSIP	STATEWIDE	STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES	SW	HSIP	\$ 2,883,223	\$ 2,594,901	\$ 288,322
607917	CENTRAL MASS	AUBURN TO WORCESTER- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 290	SW	HSIP	\$ 4,200,000	\$ 3,780,000	\$ 420,000
607919	STATEWIDE	BOLTON TO LOWELL- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 495	SW	HSIP	\$ 2,700,000	\$ 2,430,000	\$ 270,000
607496	STATEWIDE	STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE II)	SW	HSIP	\$ 9,333,444	\$ 8,400,100	\$ 933,344
608204	STATEWIDE	ATTLEBORO TO NORWOOD - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 95	5	HSIP	\$ 4,000,000	\$ 3,600,000	\$ 400,000
607760	BERKSHIRE	PITTSFIELD- INTERSECTION & SIGNAL IMPROVEMENTS AT 3 LOCATIONS: SR 8 & SR 9 (DALTON AVENUE) @ MERRILL CHESHIRE ROAD, DALTON AVENUE @ CRANE AVENUE CONNECTOR & SR 9 (MERRILL ROAD) @ CRANE AVENUE CONNECTOR	1	HSIP	\$ 1,500,000	\$ 1,350,000	\$ 150,000
607748	BOSTON	ACTON- INTERSECTION & SIGNAL IMPROVEMENTS ON SR 2 & SR 111 (MASSACHUSETTS AVENUE) AT PIPER ROAD & TAYLOR ROAD	3	HSIP	\$ 1,500,000	\$ 1,350,000	\$ 150,000
607761	BOSTON	SWAMPSCOTT- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 1A (PARADISE ROAD) AT SWAMPSCOTT MALL	4	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
Statewide HSIP Subtotal ►					\$ 26,666,667	\$ 24,000,000	\$ 2,666,667

2019

Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide Highway Safety Improvement Program							
HSIP	STATEWIDE	STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES READING TO LYNNFIELD - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 95 (STATE ROUTE 128)	Statewide	HSIP	\$ 11,316,667	\$ 10,185,000	\$ 1,131,667
608205	BOSTON	REPLACEMENT ON A SECTION OF INTERSTATE 95 (STATE ROUTE 128)	4	HSIP	\$ 3,500,000	\$ 3,150,000	\$ 350,000
608187	MERRIMAC K VALLEY	HAVERHILL- MERRIMAC- AMESBURY- TRAFFIC & GUIDE SIGN REPLACEMENT ON A SECTION OF I-495	4	HSIP	\$ 2,100,000	\$ 1,890,000	\$ 210,000
608206	BOSTON	CHELSEA TO DANVERS - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 1	4	HSIP	\$ 5,900,000	\$ 5,310,000	\$ 590,000
607756	BERKSHIRE	GREAT BARRINGTON- INTERSECTION & SIGNAL IMPROVEMENTS ON US 7 (SOUTH MAIN STREET) AT SR 23 & SR 41 (MAPLE AVENUE)	1	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607757	CENTRAL MASS	WORCESTER- SIGNAL & INTERSECTION IMPROVEMENTS ON ROUTE SR 122A (PROVIDENCE STREET) AT MILLBURY STREET & MCKEON ROAD	3	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607759	BOSTON	BOSTON- INTERSECTION & SIGNAL IMPROVEMENTS AT THE VFW PARKWAY & SPRING STREET	6	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
608052	BOSTON	NORWOOD- INTERSECTION & SIGNAL IMPROVEMENTS AT US 1 (PROVIDENCE HIGHWAY) & MORSE STREET	5	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
608053	SOUTHEASTERN MASS	MANSFIELD- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 140 (COMMERCIAL STREET) & SR 106 (CHAUNCEY STREET)	5	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607763	BOSTON	MILTON- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 138 (BLUE HILL AVENUE) AT A THERTON STREET & BRADLEE ROAD AND SR 138 (BLUE HILL AVENUE) AT MILTON STREET & DOLLAR LANE	6	HSIP	\$ 1,100,000	\$ 990,000	\$ 110,000
Statewide HSIP Subtotal ►					\$ 26,666,667	\$ 24,000,000	\$ 2,666,667

2016 Statewide Transportation Improvement Program

Americans with Disabilities Act and Stormwater Programs

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide ADA Retrofits Program							
607035	STATEWIDE	DISTRICT 1- ADA RETROFITS AT VARIOUS LOCATIONS	1	STP-TE	\$ 340,000	\$ 272,000	\$ 68,000
607036	STATEWIDE	DISTRICT 2- ADA RETROFITS AT VARIOUS LOCATIONS	2	STP-TE	\$ 740,000	\$ 592,000	\$ 148,000
Statewide ADA Subtotal ►					\$ 1,080,000	\$ 864,000	\$ 216,000

2017 Statewide Transportation Improvement Program

Americans with Disabilities Act and Stormwater Programs

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds YOEV	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide ADA Retrofits Program							
607038	STATEWIDE	DISTRICT 3- ADA RETROFITS AT VARIOUS LOCATIONS	3	STP-TE	\$ 600,000	\$ 480,000	\$ 120,000
607039	STATEWIDE	DISTRICT 4- ADA RETROFITS AT VARIOUS LOCATIONS	4	STP-TE	\$ 600,000	\$ 480,000	\$ 120,000
607041	STATEWIDE	DISTRICT 5- ADA RETROFITS AT VARIOUS LOCATIONS	5	STP-TE	\$ 575,000	\$ 460,000	\$ 115,000
607042	STATEWIDE	DISTRICT 6- ADA RETROFITS AT VARIOUS LOCATIONS	6	STP-TE	\$ 500,000	\$ 400,000	\$ 328,000
Statewide ADA Subtotal ►					\$ 2,275,000	\$ 1,820,000	\$ 683,000

2019

Statewide Transportation Improvement Program

Americans with Disabilities Act and Stormwater Programs

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds YOE ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► Statewide ADA Retrofits Program

608825	STATEWIDE	DISTRICT 1- ADA RETROFITS AT VARIOUS LOCATIONS	1	STP-TE	\$ 600,000	\$ 480,000	\$ 120,000
608826	STATEWIDE	DISTRICT 2- ADA RETROFITS AT VARIOUS LOCATIONS	2	STP-TE	\$ 900,000	\$ 720,000	\$ 180,000
Statewide ADA Subtotal ►					\$ 1,500,000	\$ 1,200,000	\$ 300,000

2016 Statewide Transportation Improvement Program

Congestion Mitigation and Air Quality Program										
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼		
► Section 1D / Federal Aid Major & State Category Projects										
► Statewide Congestion Mitigation and Air Quality Program										
603477		PIONEER VALLEY		2	CMAQ	\$ 3,551,223	\$ 2,840,978	\$ 710,245		
			Statewide CMAQ Subtotal ►			\$ 3,551,223	\$ 2,840,978	\$ 710,245	◄ 80% Federal + 20% Non-Federal	

2017 Statewide Transportation Improvement Program

Congestion Mitigation and Air Quality Program										
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼		
► Section 1D / Federal Aid Major & State Category Projects										
► Statewide Congestion Mitigation and Air Quality Program										
602911	PIONEER VALLEY	CHICOPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES)	2	CMAQ	\$ 3,902,850	\$ 3,122,280	\$ 780,570			
603783	PIONEER VALLEY	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			
606450	PIONEER VALLEY	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	CMAQ	\$ 1,564,867	\$ 1,251,894	\$ 312,973			
606555	PIONEER VALLEY	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	2	CMAQ	\$ 2,989,892	\$ 2,391,914	\$ 597,978			
Statewide CMAQ Subtotal ►					\$ 14,990,504	\$ 11,992,403	\$ 2,998,101	◀ 80% Federal + 20% Non-Federal		

2018 Statewide Transportation Improvement Program

Congestion Mitigation and Air Quality Program								
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
► Section 1D / Federal Aid Major & State Category Projects								
► Statewide Congestion Mitigation and Air Quality Program								
607589	PIONEER VALLEY	NORTH END PEDESTRIAN PATH UNDER PAN-AM RAILROAD BETWEEN PLAINFIELD ST. AND BIRNIE AVE.	2	CMAQ	\$ 4,326,400	\$ 3,461,120	\$ 865,280	
602912	PIONEER VALLEY	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET)	2	CMAQ	\$ 3,947,840	\$ 3,158,272	\$ 789,568	Chicopee is on the BSG CT River corridor.
Statewide CMAQ Subtotal ►					\$ 8,274,240	\$ 6,619,392	\$ 1,654,848	► 80% Federal + 20% Non-Federal

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 2014-2015 TIP projects are identified in table 18.

Table 15: Project Implementation

Year	Highway Project Description	SID	Funding	Programmed	Status
2014	BELCHERTOWN- PAVEMENT REHABILITATION & RELATED WORK ON ROUTE 181, FROM MAPLE ST TO BELCHERTOWN/PALMER TOWN LINE (5.5 MILES)	604433	STP	\$ 9,077,789	Under Construction
2014	NORTHAMPTON- RESURFACING AND RELATED WORK ON ROUTE 10, FROM MM 24.8 NORTHERLY TO MM 25.1 AT EARLE STREET	606665	STP	\$ 150,000	Under Construction
2014	EASTHAMPTON- HOLYOKE- RESURFACING & RELATED WORK ON ROUTE 5, MM 16.014 IN HOLYOKE TO MM 20.427 IN EASTHAMPTON (4.43 MILES)	605891	STP	\$ 2,556,996	Under Construction
2014	LONGMEADOW- RESURFACING & RELATED WORK ON ROUTE 5 (LONGMEADOW STREET), FROM EDGEWOOD STREET TO WARREN TERRACE, INCLUDES CULVERT REPAIRS AT COOLEY BROOK (.2 MILES)	605886	STP	\$ 770,000	Under Construction
2014	SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS AT SUMNER AVENUE, ALLEN STREET, ABBOT STREET & HARKNESS AVENUE	605685	STP	\$ 1,486,364	Under Construction
2014	SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS AT SUMNER AVENUE, ALLEN STREET, ABBOT STREET & HARKNESS AVENUE	605685	CMAQ	\$ 701,344	Under Construction
2014	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT MEMORIAL DRIVE (ROUTE 33) & BROADWAY	604435	CMAQ	\$ 3,100,000	Under Construction
2014	NORTHAMPTON - RAIL STATION		CMAQ	\$ 700,000	Advised
2014	SPRINGFIELD - UNION STATION REDEVELOPMENT		CMAQ	\$ 633,368	Under Construction
2014	BELCHERTOWN- PAVEMENT REHABILITATION & RELATED WORK ON ROUTE 181, FROM MAPLE ST TO BELCHERTOWN/PALMER TOWN LINE (5.5 MILES)	604433	TAP	\$ 473,939	Under Construction
2014	PELHAM- BRIDGE REPLACEMENTS, P-04-006, MEETINGHOUSE ROAD OVER AMETHYST BROOK & P-04-007, MEETINGHOUSE ROAD OVER HARRIS BROOK	604429	BR	\$ 1,846,800	Awarded for Construction
2014	EASTHAMPTON- NORTHAMPTON- INTERSTATE MAINTENANCE & RELATED WORK ON I-91 FROM MM 21.2 TO MM 26.9 IN BOTH DIRECTIONS (6.1 MILES)	606582	IM	\$ 13,334,000	Under Construction
2014	CUMMINGTON- RESURFACING & RELATED WORK ON ROUTE 9, FROM WINDSOR T.L. TO GOSHEN T.L.	605582	NHPP	\$ 8,395,682	Under Construction
2014	SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S-24-061 ON I-91 (EARLY ACTION)	607731	NHPP	\$ 1,000,000	Awarded, Notice to Proceed expected Late May or Early June
2014	AMHERST- HADLEY- NORTHAMPTON- SOUTHAMPTON- WEST BROOKFIELD- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTES 5, 9, & 10	605144	ST-TAP	\$2,082,538	Under Construction
2014	WEST SPRINGFIELD- HOLYOKE- EASTHAMPTON- NORTHAMPTON- HATFIELD- WHATLEY- DEERFIELD- GREENFIELD- BERNARDSTON- GUIDE & TRAFFIC SIGN REPLACEMENT ON I-91	605833	A/C	\$3,111,000	Under Construction

Table 15: Project Implementation (Cont.)

Year	Highway Project Description	SID	Funding	Programmed	Status
2015	PELHAM- RECONSTRUCTION OF AMHERST ROAD, FROM 800 FEET EAST OF ENFIELD ROAD TO ROUTE 202 (2.5 MILES - PHASE II)	607207	STP	\$ 4,200,000	Letting 8/25/15
2015	SPRINGFIELD- NORTH END & BRIGHTWOOD INFRASTRUCTURE IMPROVEMENTS, FROM OSGOOD STREET TO THE CHICOPEE CITY LINE (NORTHERLY SEGMENT)	605222	STP	\$ 6,172,363	Not Advertised
2015	CUMMINGTON- RETAINING WALL REPLACEMENT ON ROUTE 9 ADJACENT TO C-21-023 OVER WESTFIELD BROOK	606417	STP	\$ 1,500,000	Letting 7/14/15
2015	HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9	608023	STP	\$ 1,300,000	Not Advertised
2015	HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 9 (RUSSELL STREET) & ROUTE 47 (MIDDLE STREET)	604035	HSIP	\$ 3,038,060	Not Advertised
2015	SPRINGFIELD - UNION STATION REDEVELOPMENT		CMAQ	\$ 315,970	Under Construction
2015	DISTRICT 2- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS	607515	BR-SP	\$ 1,849,536	Under Construction
2015	DISTRICT 2- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS	607468	BR-SP	\$ 2,771,540	Under Construction
2015	SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S-24-061 ON I-91 (EARLY ACTION)	607731	NHPP	\$ 136,506,250	Awarded, Notice to Proceed expected Late May or Early June
2015	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT ROUTE 5 (PLEASANT STREET) AND CONZ STREET - Roundabout	605066	Statewide CMAQ	\$ 2,106,590	Not Advertised
2015	BERNARDSTON - WEST SPRINGFIELD - TRAFFIC SIGN REPLACEMENT ON INTERSTATE 91	605833	A/C	\$4,064,580	Under Construction
2015	WEST SPRINGFIELD- CONNECTICUT RIVERWALK & BIKEWAY EXTENSION, FROM ELM STREET TO DOTY CIRCLE, INCLUDES PEDESTRIAN BRIDGE W-21-020	603730	Statewide TAP	\$ 1,840,736	Not Advertised
2015	DISTRICT 2 - Stormwater RETROFITS AT VARIOUS LOCATIONS	607001	Other	\$ 1,500,000	Letting 9/15/15

Table 15: Project Implementation (Cont.)

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 2016-2019 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 2016-2019 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.

APPENDICES

APPENDIX A: MassDOT Targets

TITLE 23 - TRANSPORTATION FUNDING

**FEDERAL FISCAL YEAR 2016
FEDERAL REGIONAL TARGETS
4/3/2015 - DRAFT**

	Obligation Authority	Obl. Auth. Matching State Funds	Total Funding Based On Obl. Auth.
Base Obligation Authority	\$550,000,000		
Redistribution, as Estimated by FHWA	\$50,000,000		
Total Estimated Obligation Authority Available:	\$600,000,000		
ABP GANS Repayment	44,440,000		
Total Non-Earmarked Available Statewide - (Including State Match)	555,560,000	124,528,769	680,088,769
Statewide Infrastructure Items:			
Statewide Infrastructure Program	\$14,000,000	\$3,500,000	\$17,500,000
Statewide HSIP Program	\$27,500,000	\$3,055,556	\$30,555,556
Statewide Safe Routes to Schools Program	\$6,052,578	\$1,513,145	\$7,565,723
Statewide CMAQ	\$29,844,908	\$7,461,227	\$37,306,135
Statewide Transportation Enhancements	\$4,647,954	\$1,161,988	\$5,809,942
Statewide ITS	\$10,480,000	\$2,620,000	\$13,100,000
Statewide Interstate Maintenance Program	\$68,340,860	\$7,593,429	\$75,934,289
Statewide NHS Preservation Program	\$21,360,000	\$5,340,000	\$26,700,000
Statewide RR Grade Crossings	\$6,800,000	\$1,700,000	\$8,500,000
Statewide Stormwater Retrofits	\$5,475,120	\$1,368,780	\$6,843,900
Statewide ADA Implementation Plan	\$3,200,000	\$800,000	\$4,000,000
Subtotal Statewide Infrastructure Items:	\$197,701,420	\$36,314,124	\$234,015,544
Other Statewide Items:			
AWARD ADJUSTMENTS, CHANGE ORDERS, ETC	\$22,219,720	\$5,554,930	\$27,774,650
Planning	\$16,800,000	\$4,200,000	\$21,000,000
Recreational Trails	\$800,000	\$200,000	\$1,000,000
DBEs, FAPO, Misc Programs	\$800,000	\$200,000	\$1,000,000
Design and Right of Way	\$0	\$0	\$0
Subtotal Other Statewide Items:	\$40,619,720	\$10,154,930	\$50,774,650
Regional Major Infrastructure Projects:	\$57,595,001	\$14,398,750	\$71,993,751
Bridge Program:			
Statewide Bridge Maintenance Program	\$8,000,000	\$2,000,000	\$10,000,000
Statewide Bridge Repl. / Rehab Program	\$108,983,859	\$26,495,965	\$132,479,824
Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000
Subtotal Federal Aid Bridge Program:	\$119,983,859	\$29,745,965	\$148,729,824
Total Regional Targets:			
CMAQ - Congestion Mitigation and Air Quality Improvement Prog	\$25,000,000	\$6,250,000	\$31,250,000
HSIP - Highway Safety Improvement Program	\$9,000,000	\$1,000,000	\$10,000,000
TAP - Transportation Alternatives Program	\$7,970,006	\$1,992,501	\$9,962,507
Regional Maximum Non-CMAQ / HSIP Component:	\$98,689,994	\$24,672,498	\$123,362,492
Total Regional Target	\$140,660,000	\$33,915,000	\$174,575,000

Region	Regional Minimum HSIP Component With State Match	Regional Minimum CMAQ Component With State Match	Regional TAP Component With State Match	Total Regional Target With State Match	NonCMAQ/ HSIP/TAP with State Match
Berkshire Region	\$355,964	\$1,112,389	\$0	\$6,214,248	\$4,745,895
Boston Region	\$4,296,710	\$13,427,220	\$5,097,438	\$75,009,821	\$62,188,452
Cape Cod	\$458,514	\$1,432,857	\$367,528	\$8,004,511	\$5,765,612
Central Mass	\$869,013	\$2,715,666	\$852,078	\$15,170,796	\$10,734,039
Franklin Region	\$253,976	\$793,671	\$0	\$4,433,762	\$3,386,116
Martha's Vineyard	\$30,997	\$96,866	\$0	\$541,128	\$413,266
Merrimack Valley	\$442,966	\$1,384,237	\$610,846	\$7,732,989	\$6,294,861
Montachusett	\$445,955	\$1,393,611	\$149,980	\$7,785,266	\$5,795,721
Nantucket	\$21,998	\$68,743	\$0	\$384,027	\$293,286
Northern Middlesex	\$390,961	\$1,221,753	\$490,607	\$6,825,200	\$4,721,879
Old Colony	\$455,954	\$1,424,858	\$600,019	\$7,959,824	\$6,478,993
Pioneer Valley	\$1,080,992	\$3,378,100	\$947,878	\$18,871,416	\$13,464,447
Southeastern Mass	\$896,010	\$2,800,033	\$866,134	\$15,642,102	\$11,089,925
Total:	\$10,000,000	\$31,250,000	\$9,962,507	\$174,575,000	\$123,362,492

TITLE 23 - TRANSPORTATION FUNDING

**FEDERAL FISCAL YEAR 2017
FEDERAL REGIONAL TARGETS
4/3/2015 - DRAFT**

	Obligation Authority	Obl. Auth. Matching State Funds	Total Funding Based On Obl. Auth.
Base Obligation Authority	\$550,000,000		
Redistribution, as Estimated by FHWA	\$50,000,000		
Total Estimated Obligation Authority Available:	\$600,000,000		
ABP GANS Repayment	59,150,000		
Total Non-Earmarked Available Statewide - (Including State Match)	540,850,000	122,288,943	663,138,943
Statewide Infrastructure Items:			
Statewide Infrastructure Program	\$5,600,000	\$1,400,000	\$7,000,000
Statewide HSIP Program	\$22,000,000	\$2,444,444	\$24,444,444
Statewide Safe Routes to Schools Program	\$5,000,000	\$1,250,000	\$6,250,000
Statewide CMAQ	\$35,030,000	\$8,757,500	\$43,787,500
Statewide Transportation Enhancements	\$0	\$0	\$0
Statewide ITS	\$14,400,000	\$3,600,000	\$18,000,000
Statewide Interstate Maintenance Program	\$63,489,614	\$7,054,402	\$70,544,016
Statewide NHS Preservation Program	\$34,932,000	\$8,733,000	\$43,665,000
Statewide RR Grade Crossings	\$8,000,000	\$2,000,000	\$10,000,000
Statewide Stormwater Retrofits	\$4,000,000	\$1,000,000	\$5,000,000
Statewide ADA Implementation Plan	\$3,200,000	\$800,000	\$4,000,000
Subtotal Statewide Infrastructure Items:	\$196,651,614	\$37,239,346	\$233,890,960
Other Statewide Items:			
AWARD ADJUSTMENTS, CHANGE ORDERS, ETC	\$25,000,000	\$6,250,000	\$31,250,000
Planning	\$25,800,000	\$6,450,000	\$32,250,000
Recreational Trails	\$800,000	\$200,000	\$1,000,000
DBEs, FAPO, Misc Programs	\$800,000	\$200,000	\$1,000,000
Design and Right of Way	\$0	\$0	\$0
Subtotal Other Statewide Items:	\$52,400,000	\$13,100,000	\$65,500,000
Regional Major Infrastructure Projects:	\$7,200,000	\$1,800,000	\$9,000,000
Bridge Program:			
Statewide Bridge Maintenance Program	\$8,000,000	\$2,000,000	\$10,000,000
Statewide Bridge Repl. / Rehab Program	\$106,338,386	\$26,584,597	\$132,922,983
Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000
Subtotal Federal Aid Bridge Program:	\$119,338,386	\$29,834,597	\$149,172,983
Total Regional Targets:			
CMAQ - Congestion Mitigation and Air Quality Improvement Prog	\$25,000,000	\$6,250,000	\$31,250,000
HSIP - Highway Safety Improvement Program	\$9,000,000	\$1,000,000	\$10,000,000
TAP - Transportation Alternatives Program	\$7,970,006	\$1,992,501	\$9,962,507
Regional Maximum Non-CMAQ / HSIP Component:	\$124,289,994	\$31,072,499	\$155,362,493
Total Regional Target	\$166,260,000	\$40,315,000	\$206,575,000

Region	Regional Minimum HSIP Component With State Match	Regional Minimum CMAQ Component With State Match	Regional TAP Component With State Match	Total Regional Target With State Match	NonCMAQ/ HSIP/TAP with State Match
Berkshire Region	\$365,964	\$1,112,389	\$0	\$7,353,335	\$5,884,981
Boston Region	\$4,296,710	\$13,427,220	\$3,312,089	\$88,769,294	\$67,723,276
Cape Cod	\$458,514	\$1,432,857	\$232,306	\$9,471,756	\$7,348,079
Central Mass	\$869,013	\$2,715,666	\$553,642	\$17,951,638	\$13,813,317
Franklin Region	\$253,975	\$793,671	\$0	\$5,246,480	\$4,198,835
Martha's Vineyard	\$30,997	\$96,865	\$0	\$640,318	\$512,456
Merrimack Valley	\$442,966	\$1,384,237	\$396,901	\$9,150,357	\$8,926,265
Montachusett	\$445,955	\$1,393,811	\$97,450	\$9,212,324	\$7,275,308
Nantucket	\$21,998	\$68,743	\$0	\$454,420	\$363,679
Northern Middlesex	\$390,961	\$1,221,753	\$318,775	\$8,076,275	\$6,144,787
Old Colony	\$455,954	\$1,424,858	\$389,865	\$9,418,878	\$7,148,201
Pioneer Valley	\$1,080,992	\$3,378,100	\$615,889	\$22,330,590	\$17,255,610
Southeastern Mass	\$896,010	\$2,800,033	\$566,278	\$18,509,335	\$14,257,014
Total:	\$10,000,000	\$31,260,000	\$9,962,507	\$206,575,000	\$158,851,806

TITLE 23 - TRANSPORTATION FUNDING

**FEDERAL FISCAL YEAR 2018
FEDERAL REGIONAL TARGETS
4/3/2015 - DRAFT**

	Obligation Authority	Obl. Auth. Matching	Total Funding Based On
	State Funds	Obl. Auth.	
Base Obligation Authority	\$550,000,000		
Redistribution, as Estimated by FHWA	\$50,000,000		
Total Estimated Obligation Authority Available:	\$600,000,000		
ABP GANS Repayment	68,463,700		
Total Non-Earmarked Available Statewide - (Including State Match)	\$31,536,300	120,126,726	651,663,026
Statewide Infrastructure Items:			
Statewide Infrastructure Program	\$5,600,000	\$1,400,000	\$7,000,000
Statewide HSIP Program	\$24,000,000	\$2,666,667	\$26,666,667
Statewide Safe Routes to Schools Program	\$5,000,000	\$1,250,000	\$6,250,000
Statewide CMAQ	\$38,400,000	\$9,600,000	\$48,000,000
Statewide Transportation Enhancements	\$0	\$0	\$0
Statewide ITS	\$11,920,000	\$2,980,000	\$14,900,000
Statewide Interstate Maintenance Program	\$60,292,914	\$6,699,213	\$66,992,127
Statewide NHS Preservation Program	\$31,000,000	\$7,750,000	\$38,750,000
Statewide RR Grade Crossings	\$4,800,000	\$1,200,000	\$6,000,000
Statewide Stormwater Retrofits	\$4,000,000	\$1,000,000	\$5,000,000
Statewide ADA Implementation Plan	\$3,200,000	\$800,000	\$4,000,000
Subtotal Statewide Infrastructure Items:	\$188,212,914	\$35,545,879	\$224,558,793
Other Statewide Items:			
AWARD ADJUSTMENTS, CHANGE ORDERS, ETC	\$25,000,000	\$6,250,000	\$31,250,000
Planning	\$24,800,000	\$6,200,000	\$31,000,000
Recreational Trails	\$800,000	\$200,000	\$1,000,000
DBEs, FAPO, Misc Programs	\$800,000	\$200,000	\$1,000,000
Design and Right of Way	\$0	\$0	\$0
Subtotal Other Statewide Items:	\$51,400,000	\$12,850,000	\$64,250,000
Regional Major Infrastructure Projects:	\$0	\$0	\$0
Bridge Program:			
Statewide Bridge Maintenance Program	\$8,000,000	\$2,000,000	\$10,000,000
Statewide Bridge Repl. / Rehab Program	\$105,463,386	\$26,365,847	\$131,829,233
Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000
Subtotal Federal Aid Bridge Program:	\$118,463,386	\$29,615,847	\$148,079,233
Total Regional Targets:			
CMAQ - Congestion Mitigation and Air Quality Improvement Progr	\$25,000,000	\$6,250,000	\$31,250,000
HSIP - Highway Safety Improvement Program	\$9,000,000	\$1,000,000	\$10,000,000
TAP - Transportation Alternatives Program	\$7,970,006	\$1,992,501	\$9,962,507
Regional Maximum Non-CMAQ / HSIP Component:	\$131,489,994	\$32,872,499	\$164,362,493
Total Regional Target	\$173,460,000	\$42,115,000	\$215,575,000

Region	Regional Minimum HSIP Component With State Match	Regional Minimum CMAQ Component With State Match	Regional TAP Component With State Match	Total Regional Target With State Match	NonCMAQ/ HSIP/TAP With State Match
Berkshire Region	\$355,964	\$1,112,389	\$0	\$7,673,703	\$6,205,349
Boston Region	\$4,296,710	\$13,427,220	\$3,312,089	\$92,626,333	\$71,590,315
Cape Cod	\$458,514	\$1,432,857	\$232,306	\$9,884,419	\$7,760,742
Central Mass	\$869,013	\$2,715,666	\$553,642	\$18,733,750	\$14,595,428
Franklin Region	\$253,975	\$793,671	\$0	\$5,475,057	\$4,427,412
Martha's Vineyard	\$30,997	\$96,865	\$0	\$668,216	\$540,353
Merrimack Valley	\$442,956	\$1,384,237	\$396,901	\$9,549,017	\$7,324,925
Montachusett	\$445,955	\$1,393,611	\$97,450	\$9,613,684	\$7,676,667
Nantucket	\$21,998	\$68,743	\$0	\$474,218	\$383,477
Northern Middlesex	\$390,961	\$1,221,753	\$318,775	\$8,428,140	\$6,496,651
Old Colony	\$455,954	\$1,424,858	\$389,865	\$9,829,237	\$7,558,560
Pioneer Valley	\$1,080,992	\$3,378,100	\$615,889	\$23,303,483	\$18,228,502
Southeastern Mass	\$896,010	\$2,800,033	\$556,278	\$19,315,744	\$15,063,424
Total:	\$10,000,000	\$31,250,000	\$9,962,507	\$215,575,000	\$167,851,806

TITLE 23 - TRANSPORTATION FUNDING

FEDERAL FISCAL YEAR 2019 FEDERAL REGIONAL TARGETS 4/3/2015 - DRAFT

	Obligation Authority	Obl. Auth. Matching State Funds	Total Funding Based On Obl. Auth.
Base Obligation Authority	\$550,000,000		
Redistribution, as Estimated by FHWA	\$50,000,000		
Total Estimated Obligation Authority Available:	\$600,000,000		
ABP GANS Repayment	73,525,150		
Total Non-Earmarked Available Statewide - (Including State Match)	526,474,850	130,368,713	656,843,563
Statewide Infrastructure Items:			
Statewide Infrastructure Program	\$0	\$0	\$0
Statewide HSIP Program	\$24,000,000	\$2,666,667	\$26,666,667
Statewide Safe Routes to Schools Program	\$5,000,000	\$1,250,000	\$6,250,000
Statewide CMAQ	\$44,363,162	\$11,090,791	\$55,453,953
Statewide Transportation Enhancements	\$0	\$0	\$0
Statewide ITS	\$20,000,000	\$5,000,000	\$25,000,000
Statewide Interstate Maintenance Program	\$57,646,464	\$14,411,616	\$72,058,080
Statewide NHS Preservation Program	\$28,000,000	\$7,000,000	\$35,000,000
Statewide RR Grade Crossings	\$3,800,000	\$950,000	\$4,750,000
Statewide Stormwater Retrofits	\$3,000,000	\$750,000	\$3,750,000
Statewide ADA Implementation Plan	\$0	\$0	\$0
Subtotal Statewide Infrastructure Items:	\$185,809,626	\$46,452,407	\$232,262,033
Other Statewide Items:			
AWARD ADJUSTMENTS, CHANGE ORDERS, ETC	\$25,000,000	\$6,250,000	\$31,250,000
Planning	\$23,800,000	\$5,950,000	\$29,750,000
Recreational Trails	\$800,000	\$200,000	\$1,000,000
DBEs, FAPO, Misc Programs	\$800,000	\$200,000	\$1,000,000
Design and Right of Way	\$0	\$0	\$0
Subtotal Other Statewide Items:	\$50,400,000	\$12,600,000	\$63,000,000
Regional Major Infrastructure Projects:	\$0	\$0	\$0
Bridge Program:			
Statewide Bridge Maintenance Program	\$8,000,000	\$2,000,000	\$10,000,000
Statewide Bridge Repl. / Rehab Program	\$103,805,224	\$25,951,306	\$129,756,530
Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000
Subtotal Federal Aid Bridge Program:	\$116,805,224	\$29,201,306	\$146,006,530
Total Regional Targets:			
CMAQ - Congestion Mitigation and Air Quality Improvement Program	\$25,000,000	\$6,250,000	\$31,250,000
HSIP - Highway Safety Improvement Program	\$9,000,000	\$1,000,000	\$10,000,000
TAP - Transportation Alternatives Program	\$5,278,555	\$1,319,639	\$6,598,194
Regional Maximum Non-CMAQ / HSIP Component:	\$134,181,445	\$33,545,361	\$167,726,806
Total Regional Target	\$173,460,000	\$42,115,000	\$215,575,000

Region	Regional Minimum HSIP Component With State Match	Regional Minimum CMAQ Component With State Match	Regional TAP Component With State Match	Total Regional Target With State Match	NonCMAQ/ HSIP/TAP with State Match
Berkshire Region	\$366,964	\$1,112,389	\$0	\$7,673,703	\$6,206,349
Boston Region	\$4,296,710	\$13,427,220	\$2,548,719	\$92,626,333	\$72,363,684
Cape Cod	\$458,514	\$1,432,857	\$178,764	\$9,884,419	\$7,814,284
Central Mass	\$869,013	\$2,715,666	\$426,039	\$18,733,750	\$14,723,032
Franklin Region	\$263,975	\$793,671	\$0	\$5,475,067	\$4,427,412
Martha's Vineyard	\$30,997	\$96,865	\$0	\$688,216	\$540,363
Memmick Valley	\$442,956	\$1,384,237	\$305,423	\$9,549,018	\$7,416,402
Montachusett	\$445,955	\$1,393,611	\$74,990	\$9,613,684	\$7,699,128
Nantucket	\$21,988	\$68,743	\$0	\$474,218	\$383,477
Northern Middlesex	\$390,961	\$1,221,753	\$245,303	\$8,428,140	\$6,570,122
Old Colony	\$455,954	\$1,424,858	\$300,009	\$9,829,237	\$7,848,416
Pioneer Valley	\$1,080,992	\$3,378,100	\$473,939	\$23,303,483	\$18,370,452
Southeastern Mass	\$896,010	\$2,800,033	\$428,067	\$19,315,744	\$15,191,634
Total:	\$10,000,000	\$31,250,000	\$6,598,194	\$215,575,000	\$169,343,747

APPENDIX B: Project Priority Evaluation Criteria Sample Sheet

TEC Summary Sheet

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	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	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
6	Reduces auto-dependency 2	Reduces traffic congestion 6	Provides services to a TOD, TND or cluster 0.5	Improves emergency response 4	Reduced impervious surfaces 0.5	Improves access to jobs 2	Creates an EJ Burden -5
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		
Maximum Score	19	17	10	16	12	10	3

APPENDIX C: Summary of Operation and Maintenance Expenditures

Massachusetts Department of Transportation - Highway Division
Summary of Operating and Maintenance Expenditures
Pioneer Valley Region - Part 1: Non-Federal Aid
as of 3/30/2015

Section I - Non Federal Aid Maintenance Projects - State Bondfunds

Program Group/Sub Group	Estimated SFY 2013 Expenditures	Estimated SFY 2014 Expenditures	Current SFY 2015 Expenditures to Date
01 - Bridge Repair & Replacement			
New Bridge (Excluded)	n/a	n/a	n/a
Bridge Replacement (Excluded)	n/a	n/a	n/a
Bridge Reconstruction/Rehab	\$17,535,478	\$7,002,668	\$2,121,027
Drawbridge Maintenance	\$0	\$0	\$0
Structures Maintenance	\$1,938,488	\$22,934	\$84,892
02 - Bridge Painting			
Painting - Structural	\$0	\$0	\$0
03 - Roadway Reconstruction			
Hwy Relocation (Excluded)	n/a	n/a	n/a
Hwy Recon. - Added Capacity (Excluded)	n/a	n/a	n/a
New Construction (Excluded)	n/a	n/a	n/a
Hwy Reconstr - Restr and Rehab	\$0	\$0	\$0
Hwy Reconstr - No Added Capacity	\$0	\$0	\$0
Hwy Reconstr - Minor Widening	\$0	\$37,516	\$7,888
Hwy Reconstr - Major Widening	\$0	\$0	\$0
04 - Roadway Resurfacing			
Resurfacing	\$55,975	\$0	\$2,272,906
05 - Intersection & Safety			
Impact Attenuators	\$0	\$0	\$0
Safety Improvements	\$0	\$0	\$0
Traffic Signals	\$0	\$0	\$0
06 - Signs & Lighting			
Electrical	\$716	\$6,724	\$0
Sign Installation / Upgrading	\$0	\$0	\$0
Structural Signing	\$0	\$0	\$0
07 - Guardrail			
Guard Rail and Fencing	\$0	\$0	\$0
08 - Maintenance			
Catch Basin Cleaning	\$0	\$0	\$0
Crack Sealing	\$0	\$0	\$0
Landscaping	\$0	\$0	\$0
Mowing and Spraying	\$0	\$0	\$0
Pavement Marking	\$0	\$0	\$0
Sewer and Water	\$101,488	\$3,820	\$0
Process/Recycle/Tmsprt Soils	\$0	\$0	\$0
Contract Hwy Maint.	\$0	\$0	\$0
09 - Facilities			
Chemical Storage Sheds	\$0	\$0	\$0
Vertical Construction	\$1,355,990	\$4,324,162	\$0
10 - Bikeways (Excluded)	n/a	n/a	n/a
11 - Other			
Demolition	\$0	\$445	\$0
Drilling & Boring	\$0	\$0	\$0
Highway Sweeping	\$0	\$0	\$0
Intelligent Transportation System	\$0	\$0	\$0
Marine Construction	\$0	\$0	\$0
Miscellaneous / No prequal	\$0	\$0	\$0
Reclamation	\$0	\$0	\$0
Underground Tank Removal Replace	\$0	\$0	\$0
Unknown	\$0	\$0	\$0
Section I Total:	\$20,988,135	\$11,398,269	\$4,486,713

Section II - Non Federal Aid Highway Operations - State Operating Budget Funding

12 - Snow and Ice Operations & Materials	n/a	n/a	n/a
13 - District Maintenance Payroll (Mowing, Litter Management, Sight Distance Clearing, Etc.)	n/a	n/a	n/a
Section II Total:	\$0	\$0	\$0
Grand Total NFA:	\$20,988,135	\$11,398,269	\$4,486,713

Massachusetts Department of Transportation - Highway Division
Summary of Operating and Maintenance Expenditures
Pioneer Valley Region - Part 2: Federal Aid
as of 3/30/2015

Section I - Federal Aid Maintenance Projects

Program Group/Sub Group	Estimated SFY 2013 Expenditures	Estimated SFY 2014 Expenditures	Current SFY 2015 Expenditures to Date
01 - Bridge Repair & Replacement			
New Bridge (Excluded)	n/a	n/a	n/a
Bridge Replacement (Excluded)	n/a	n/a	n/a
Bridge Reconstruction/Rehab	\$7,899,450	\$4,496,289	\$9,829,480
Drawbridge Maintenance	\$0	\$0	\$0
Structures Maintenance	\$7,587	\$76,277	\$1,250,269
02 - Bridge Painting			
Painting - Structural	\$0	\$0	\$0
03 - Roadway Reconstruction			
Hwy Relocation (Excluded)	n/a	n/a	n/a
Hwy Recon. - Added Capacity (Excluded)	n/a	n/a	n/a
New Construction (Excluded)	n/a	n/a	n/a
Hwy Reconstr - Restr and Rehab	\$3,643,068	\$817,829	\$8,362
Hwy Reconstr - No Added Capacity	\$2,248,466	\$4,813,258	\$1,151,039
Hwy Reconstr - Minor Widening	\$4,537,040	\$3,539,103	\$3,548,739
Hwy Reconstr - Major Widening	\$0	\$0	\$0
04 - Roadway Resurfacing			
Resurfacing	\$7,829,827	\$15,202,187	\$9,773,274
05 - Intersection & Safety			
Impact Attenuators	\$0	\$0	\$0
Safety Improvements	\$0	\$0	\$0
Traffic Signals	\$571,607	\$789,459	\$3,026,339
06 - Signs & Lighting			
Electrical	\$131,784	\$12,322	\$5,649
Sign Installation / Upgrading	\$39,551	\$0	\$399
Structural Signing	\$603,820	\$2,263,775	\$425,317
07 - Guardrail			
Guard Rail and Fencing	\$11,483	\$0	\$0
08 - Maintenance			
Catch Basin Cleaning	\$0	\$0	\$0
Contract Highway Maintenance	\$0	\$0	\$0
Crack Sealing	\$0	\$0	\$0
Landscaping	\$0	\$0	\$0
Mowing and Spraying	\$0	\$0	\$0
Pavement Marking	\$0	\$0	\$0
Process/Recycle/Transport Soils	\$0	\$0	\$0
Sewer and Water	\$0	\$0	\$0
09 - Facilities			
Chemical Storage Sheds	\$0	\$0	\$0
Vertical Construction	\$0	\$0	\$0
10 - Bikeways (Excluded)	n/a	n/a	n/a
11 - Other			
Demolition	\$0	\$0	\$0
Drilling & Boring	\$0	\$0	\$0
Highway Sweeping	\$0	\$0	\$0
Intelligent Transportation System	\$2,572,763	\$441,452	\$0
Marine Construction	\$0	\$0	\$0
Miscellaneous / No prequal	\$0	\$0	\$0
Reclamation	\$0	\$0	\$0
Underground Tank Removal Replace	\$0	\$0	\$0
Unknown	\$0	\$0	\$0
Section I Total:	\$30,096,446	\$32,451,950	\$29,018,866

Section II - Federal Aid Highway Operations

ITS Operations - I-93 HOV Lane Operation and Towing	n/a	n/a	n/a
ITS Operations - Traffic Operations Center (South Boston)	n/a	n/a	n/a
Section II Total	\$0	\$0	\$0
Grand Total Federal Aid:	\$30,096,446	\$32,451,950	\$29,018,866

APPENDIX D: 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 16 list agencies with transportation interest in the Metropolitan Planning Area (MPA) that were contacted for the purpose of consultation while developing the TIP. Table 17 lists the agencies from table 16 which responded and coordinated meetings were held during TIP development.

Table 16: 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
UMASS Traveler Information Center (RTIC)	Amherst

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 17: Agencies Providing Consultation)

APPENDIX E: MAP-21 Performance Management Information

Performance Management

Program purpose

A key feature of MAP-21 is the establishment of a performance- and outcome-based program. The objective of this performance- and outcome-based program is for States to invest resources in projects that collectively will make progress toward the achievement of the national goals.

Statutory citation(s): MAP-21 §§1106, 1112-1113, 1201-1203; 23 USC 119, 134-135, 148-150

National policy in support of performance management

“Performance management will transform the Federal-aid highway program and provide a means to the most efficient investment of Federal transportation funds by refocusing on national transportation goals, increasing the accountability and transparency of the Federal-aid highway program, and improving project decision-making through ”[§1203; 23 USC 150(a)]

National performance goals

Establishes national performance goals for the Federal-aid highway program in seven areas:

[§1203; 23 USC 150(b)]

Goal area	National goal
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 National Highway System
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
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Performance measures

Requires the Secretary, in consultation with States, metropolitan planning organizations (MPOs), and other stakeholders, to establish performance measures in the areas listed below. Provides for DOT to establish such measures within 18 months of enactment, and prohibits DOT from establishing additional performance measures. [§1203; 23 USC 150(c)]

- Pavement condition on the Interstate System and on remainder of the National Highway System (NHS)
- Performance of the Interstate System and the remainder of the NHS
- Bridge condition on the NHS
- Fatalities and serious injuries—both number and rate per vehicle mile traveled--on all public roads
- Traffic congestion
- On-road mobile source emissions
- Freight movement on the Interstate System

Performance targets

- *Setting of State targets.* Within one year of the DOT final rule on performance measures, requires States to set performance targets in support of those measures. States may set different performance targets for urbanized and rural areas. [§1203; 23 USC 150(d)]

To ensure consistency each State must, to the maximum extent practicable –

- coordinate with an MPO when setting performance targets for the area represented by that MPO; and
- coordinate with public transportation providers when setting performance targets in an urbanized area not represented by an MPO. [§1202; 23 USC 135(d)(2)(B)]
- *Setting of MPO targets.* Within 180 days of States or providers of public transportation setting performance targets, requires MPOs to set performance targets in relation to the performance measures (where applicable). To ensure consistency, each MPO must, to the maximum extent practicable, coordinate with the relevant State and public transportation providers when setting performance targets. [§1201; 23 USC 134(h)(2)].
- *Plans requiring targets.* Requires the following plans to include State targets (and/or MPO targets, as appropriate):
 - Metropolitan transportation plans. [§1201; 23 USC 134(i)(2)(B)]
 - Metropolitan Transportation Improvement Program (TIP). [§1201; 23 USC 134(j)(2)(D)]

- Statewide Transportation Improvement Program (STIP). [§1202; 23 USC 135(g)(4)]
- State asset management plans under the National Highway Performance Program (NHPP). [§1106; 23 USC 119(e)]
- State performance plans under the Congestion Mitigation and Air Quality Improvement program. [§1113(b)(6); 23 USC 149(l)]

Additionally, State and MPO targets *should* be included in Statewide transportation plans. [§1202; 23 USC 135(f)(7)]

- *Reporting on progress.* Requires States to report on the condition and performance of the NHS; the effectiveness of the investment strategy document in the State asset management plan for the NHS; progress toward achieving performance targets; and the ways in which the State is addressing congestion at freight bottlenecks. [§1203; 23 USC 150(e)]

Thresholds for bridge and pavement condition

- *Establishment of thresholds.* Requires DOT to establish, as part of its rulemaking on performance measures, minimum thresholds for Interstate pavement condition. [§1203; 23 USC 150(c)(3)]

Requires each State to maintain minimum thresholds for Interstate pavement condition (the level set by DOT in its rulemaking) and NHS bridges (no more than 10% of total NHS bridge deck area may be on structurally deficient bridges). [§1106; 23 USC 119(f)]

- *Failure to meet thresholds.* Requires a State that fails to meet or maintain these thresholds over a statutorily-designated time period to reserve a specified portion of its NHPP funding for Interstate pavement and NHS bridge projects. In some cases also requires the State to transfer a specified portion of its Surface Transportation Program (STP) funding to NHPP. (See NHPP fact sheet for detail) [§1106; 23 USC 119(f)]

Trends in safety performance

Imposes additional requirements on a State in relation to specified measures of highway safety: [§1112; 23 USC 148(g)]

- *Rural road safety.* If the fatality rate on rural roads in a State increases over the most recent two year period, the State must dedicate a specified amount of funds under the Highway Safety Improvement Program for high risk rural road safety projects.
- *Older driver and pedestrian safety.* If the traffic fatalities and serious injuries per capita for drivers and pedestrians over the age of 65 in a State increase over the most recent two year period, the State must detail in its next Strategic Highway Safety Plan how it intends to address increases in those rates.

Other accountability measures

- *Target achievement under NHPP.* Requires a State that fails to achieve (or to make significant progress toward achieving) its performance targets for the NHS for two consecutive reports to describe in its next performance report to DOT (under amended 23 USC 150(e)) the actions it will take to achieve its targets. [§1106; 23 USC 119(e)(7)]
- *Target achievement under HSIP.* Requires a State that fails to achieve (or to make significant progress toward achieving) its HSIP performance targets within two years of the targets' establishment to –
 - dedicate a specified portion of its obligation authority to HSIP projects until the Secretary determines that the State has made significant progress toward or met the targets; and
 - annually submit to the Secretary an implementation plan that includes certain specified components related to highway safety until the Secretary determines that the State has made significant progress toward or met the targets. [§1112; 23 USC 148(i)]
- *Certification of planning process for Transportation Management Areas (TMAs).* Continues to require the Secretary to certify at least once every four years whether the metropolitan planning process of an MPO serving a TMA meets the requirements, including the requirements of 23 USC 134 and other applicable Federal law. One of these requirements is to include a performance-based approach in the metropolitan transportation planning process (see 23 USC 134(h)(2)). Absent this certification, DOT may withhold up to 20% of the funds attributable to the metropolitan planning area. [§1201; 23 USC 134(k)(5)]