



### **APPENDIX A**

### **PROJECT PRIORITIZATION AND SCORING**

#### INTRODUCTION

As described in Chapter 2, the Transportation Improvement Program (TIP) development and project prioritization and funding process consists of numerous phases and is supported by several different funding sources. This appendix includes information about transportation construction projects that the Boston Region Metropolitan Planning Organization (MPO) considered for funding through the Highway Discretionary ("Regional Target") Program in the federal fiscal years (FFYs) 2020-24 TIP. In order to be considered for funding by the MPO, a project must fulfill certain basic criteria:

- The Massachusetts Department of Transportation's Project Review Committee must have approved the project or have plans to review it.
- The project should fall into one of the investment categories established in the Boston Region MPO's Long-Range Transportation Plan (LRTP): Complete Streets, Intersection Improvements, Bicycle Network and Pedestrian Connections, Major Infrastructure, or Community Transportation/Parking/Clean Air and Mobility.<sup>1</sup>

If a project meets the above criteria, it is presented to the MPO board in the Universe of Unprogrammed Projects (Table A-1) to be considered for funding.

Once a project in that list nears the 25 percent design stage, the required information is available for evaluation and scoring by MPO staff. The evaluation criteria used to score projects are based on the MPO's goals and objectives (Table A-2). After the projects are scored, the scores are shared with project proponents, posted on the MPO's website, and presented to the MPO board for review and discussion. The scores for projects evaluated during development of the FFYs 2020-24 TIP are summarized in Table A-3.

The next step in project prioritization is development of the First-Tier List of Projects (Table A-4). In addition to summarizing the project scores, the First-Tier List of Projects presents geographic, cost, readiness, and other information about each project that the MPO board can use to inform decisions about how to prioritize projects for funding in the TIP.

<sup>1</sup> These are the investment categories established in the LRTP, *Charting Progress to 2040*. An updated LRTP, *Destination 2040*, will be adopted in July 2019 and may have updated or new investment categories.



# Table A-IUniverse of Unprogrammed Projects(as presented to the Boston Region MPO board on February 7, 2019)

| Municipality         | Project<br>Proponent | Project Name   | PROJIS/<br>TIP ID | Design Status                               | Cost<br>Estimate | MAPC<br>Subregion | MassDOT<br>Highway<br>District | Evaluate<br>in<br>2018/2019 | MPO Investment<br>Program |
|----------------------|----------------------|--|-------------------|---|------------------|-------------------|--------------------------------|-----------------------------|---------------------------|
| Inner Core           |                      |  |                   |   |                  |                   |                                |                             |                           |
| Newton               | Newton               | Reconstruction and Signal Improvements on Walnut St, from Homer St<br>to Route 9                         | 601704            | 25% design                                  | \$ 4,648,360     | ICC               | 6                              |                             | Complete Streets          |
| Boston               | Boston               | Neponset River Greenway (Phase 3)  | 608943            | PRC-approved                                | \$ 4,972,500     | ICC               | 6                              | Х                           | Bicycle and Pedestrian    |
| Everett              | Everett              | Reconstruction of Beacham St from Broadway to the Chelsea City Line                                      | 609257            | Pre-PRC; PRC-approval<br>expected Dec. 2018 | \$ 9,180,000     | ICC               | 4                              | Х                           | Complete Streets          |
| Lynn                 | Lynn                 | Traffic and Safety Improvements at Two Locations on Broadway   | 609254            | Pre-PRC; PRC-approval<br>expected Dec. 2018 | \$ 5,870,300     | ICC               | 4                              | Х                           | Intersection Improvements |
| Lynn                 | Lynn                 | Rehabilitation of Essex St   | 609252            | Pre-PRC; PRC-approval<br>expected Dec. 2018 | \$ 16,925,000    | ICC               | 4                              | х                           | Complete Streets          |
| Belmont              | Belmont              | Community Path, Belmont Component of the MCRT (Phase 1)  | 609204            | PRC approved                                | \$ 16,703,600    | ICC               | 4                              |                             | Bicycle and Pedestrian    |
| Boston               | Boston               | Reconstruction of Tremont St, from Court St to Boylston St   | 601274            | 25% design                                  | \$ 2,681,260     | ICC               | 6                              |                             | Complete Streets          |
| Boston, Brookline    | Boston,<br>Brookline | Mountfort St and Commonwealth Ave Connection   | 608956            | PRC approved (2017)                         | \$ 916,883       | ICC               | 6                              |                             | Intersection Improvements |
| Boston               | Boston               | Reconstruction of Tremont St, from Stuart St to Marginal Rd (1,830 ft.)                                  | 601507            | PRC approved (1996)                         | \$ 4,400,000     | ICC               | 6                              |                             | Complete Streets          |
| Boston               | Boston               | Traffic Signal Improvements at Eight Locations   | 606556            | PRC approved                                | \$ 3,603,960     | ICC               | 6                              |                             | Intersection Improvements |
| Boston               | MassDOT              | Leverett Circle Pedestrian Bridge over Route 28, I-93 Ramps and Storrow Dr                               | 606703            | PRC approved                                | \$ 11,040,000    | ICC               | 6                              |                             | Bicycle and Pedestrian    |
| Boston               | Boston               | Reconstruction on (Route 203) Gallivan Boulevard, from Neponset Cir<br>to East of Morton St Intersection | 606896            | PRC approved                                | \$ 11,500,000    | ICC               | 6                              |                             | Complete Streets          |
| Boston               | Boston               | Improvements on (Route 203) Morton St, from West of Gallivan Blvd to Shea Cir                            | 606897            | PRC approved                                | \$ 11,500,000    | ICC               | 6                              |                             | Complete Streets          |
| Cambridge            | Cambridge            | Innovation Boulevard Streetscape and Pedestrian Improvements,<br>between Main St and Binney St (Phase I) | 604993            | 25% design                                  | \$ 992,163       | ICC               | 6                              |                             | Complete Streets          |
| Chelsea              | Chelsea              | Beacham and Williams St Reconstruction   | 609083            | PRC approved                                | \$ 8,281,525     | ICC               | 6                              |                             | Complete Streets          |
| Chelsea              | Chelsea              | Reconstruction of Beacham St, from Spruce St to the Everett City Line                                    | na                | Pre-PRC                                     | -                | ICC               | 6                              |                             | Complete Streets          |
| Newton               | Newton               | Reconstruction on Route 30 (Commonwealth Ave), from Weston Town<br>Line to Auburn St                     | 600932            | PRC approved (1996)                         | \$ 2,208,000     | ICC               | 6                              |                             | Complete Streets          |
| Newton               | Newton               | Improvements of Route 128/I-95 and Grove St  | 607940            | PRC approved (2014)                         | \$ 10,000,055    | ICC               | 6                              |                             | Complete Streets          |
| Newton,<br>Brookline | MassDOT              | Resurfacing and Related Work on Route 9, from Dearborn St to Natick<br>Town Line                         | 608821            | PRC approved                                | \$ 7,337,000     | ICC               | 6                              |                             | Complete Streets          |
|                      |                      |  |                   |   |                  |                   |                                |                             |                           |

# Table A-IUniverse of Unprogrammed Projects(as presented to the Boston Region MPO board on February 7, 2019) (cont. 2)

| Municipality                          | Project<br>Proponent      | Project Name   | PROJIS/<br>TIP ID | Design Status                               | Cost<br>Estimate | MAPC<br>Subregion | MassDOT<br>Highway<br>District | Evaluate<br>in<br>2018/2019 | MPO Investment<br>Program |
|---------------------------------------|---------------------------|--|-------------------|---|------------------|-------------------|--------------------------------|-----------------------------|---------------------------|
| Minuteman Adv                         | isory Group o             | on Interlocal Coordination   |                   |   |                  |                   |                                |                             |                           |
| Littleton                             | Littleton                 | Reconstruction of Foster St  | 609054            | PRC approved                                | \$ 3,600,000     | MAGIC             | 3                              | Х                           | Complete Streets          |
| MetroWest Reg                         | ional Collaboı            | rative   |                   |   |                  |                   |                                |                             |                           |
| Framingham                            | MassDOT                   | Pedestrian Hybrid Beacon Installation at Route 9 and Maynard Rd                                  | 608006            | 25% design                                  | \$ 886,228       | MWRC              | 3                              |                             | Bicycle and Pedestrian    |
| Marlborough                           | MassDOT                   | Intersection and Signal Improvements on Route 20 (East Main St/<br>Boston Post Rd) at Concord Rd | 60423 I           | 25% design                                  | \$ 1,706,600     | MWRC              | 3                              |                             | Intersection Improvements |
| Ashland                               | Ashland                   | Rehabilitation and Rail Crossing Improvements on Cherry St                                       | 608436            | PRC approved                                | \$ 990,000       | MWRC              | 3                              | X                           | Bicycle and Pedestrian    |
| Framingham                            | Framingham                | Traffic Signal Installation at Edgell Rd at<br>Central St  | 608889            | PRC approved                                | \$ 1,680,000     | MWRC              | 3                              | X                           | Intersection Improvements |
| Wellesley                             | MassDOT                   | Resurfacing and Related Work on Route 9, from Dearborn St to Natick<br>Town Line                 | 607340            | PRC approved                                | \$ 16,462,400    | MWRC              | 6                              |                             | Complete Streets          |
| Weston                                | Weston                    | Intersection Improvements - Boston Post Rd (Route 20) at Wellesley St                            | 608940            | PRC approved                                | \$ 1,219,250     | MWRC              | 6                              |                             | Intersection Improvements |
| Weston                                | MassDOT                   | Reconstruction on Route 30   | 608954            | PRC approved                                | \$ 8,117,562     | MWRC              | 6                              |                             | Complete Streets          |
| North Suburba                         | n Planning Co             | ouncil   |                   |   |                  |                   |                                |                             |                           |
| Wilmington                            | Wilmington                | Reconstruction on Route 38 (Main St), from Route 62 to the Woburn<br>City Line                   | 60805 I           | 25% design                                  | \$ 10,802,316    | NSPC              | 4                              | X                           | Complete Streets          |
| Wilmington                            | Wilmington                | Intersection Improvements at Lowell St and Woburn St   | 609253            | Pre-PRC; PRC-approval<br>expected Dec. 2018 | \$ 3,400,000     | NSPC              | 4                              | Х                           | Intersection Improvements |
| Woburn                                | Woburn                    | Middlesex Canal Park Improvements, from Alfred St to School St (Phase<br>II - Segment 5)         | 606304            | PRC approved (2010)                         | \$ 799,820       | NSPC              | 4                              |                             | Bicycle and Pedestrian    |
| Woburn                                | MassDOT                   | Intersection Reconstruction at Route 3 (Cambridge Rd) and Bedford Rd and South Bedford St        | 608067            | PRC approved (2014)                         | \$ 1,440,000     | NSPC              | 4                              |                             | Intersection Improvement  |
| North Shore                           | Task Force                |  |                   |   |                  |                   |                                |                             |                           |
| Danvers                               | Danvers                   | Reconstruction on Collins St, from Sylvan St to Centre and Holten Sts                            | 602310            | 75% design                                  | \$ 5,183,121     | NSTF              | 4                              |                             | Complete Streets          |
| Peabody                               | MassDOT                   | Independence Greenway Extension  | 609211            | PRC approved                                | \$ 1,921,075     | NSTF              | 4                              | X                           | Bicycle and Pedestrian    |
| Beverly,<br>Manchester-by-<br>the-Sea | MassDOT                   | Resurfacing and Related Work on Route 127  | 607707            | PRC approved                                | \$ 2,300,000     | NSTF              | 4                              |                             | Complete Streets          |
| Manchester-by-<br>the-Sea             | Manchester-<br>by-the-Sea | Pine Street - Central St (Route 127) to Rockwood Heights Rd                                      | na                | Pre-PRC; PNF submitted<br>12/27/16          | -                | NSTF              | 4                              |                             | Complete Streets          |

Table A-IUniverse of Unprogrammed Projects(as presented to the Boston Region MPO board on February 7, 2019) (cont. 3)

| Municipality                           | Project<br>Proponent                           | Project Name  | PROJIS/<br>TIP ID | Design Status                     | Cost<br>Estimate | MAPC<br>Subregion | MassDOT<br>Highway<br>District | Evaluate<br>in<br>2018/2019 | MPO Investment<br>Program |
|--|--|---|-------------------|-----------------------------------|------------------|-------------------|--------------------------------|-----------------------------|---------------------------|
| South Shore                            | Coalition                                      |   |                   |                                   |                  |                   |                                |                             |                           |
| Hingham                                | Hingham  | Improvements on Route 3A from Otis St/Cole Rd, including Summer St<br>and Rotary; Rockland St to George Washington Blvd                                 | 605168            | PRC approved (2009)               | \$ 7,500,001     | SSC               | 5                              |                             | Complete Streets          |
| Holbrook                               | Holbrook                                       | Corridor Improvements and Related Work on South Franklin St (Route 37) from Snell St to King Rd   | 608543            | PRC approved                      | \$ 4,000,200     | SSC               | 5                              |                             | Complete Streets          |
| Hull                                   | Hull   | Corridor Improvements along Nantasket Ave from Moutford Rd to A St  | na                | Pre-PRC; PNF submitted<br>6/30/16 |                  | SSC               | 5                              |                             | Complete Streets          |
| Weymouth                               | Weymouth                                       | Reconstruction on Route 3A, including Pedestrian and Traffic Signal Improvements  | 60823 I           | PRC approved                      | \$ 10,780,100    | SSC               | 6                              |                             | Complete Streets          |
| Weymouth                               | MassDOT  | Resurfacing and Related Work on Route 3A  | 608483            | PRC approved                      | \$ 2,400,000     | SCC               | 6                              |                             | Complete Streets          |
| South West Advisory Planning Committee |  |   |                   |                                   |                  |                   |                                |                             |                           |
| Milford                                | MassDOT  | Rehabilitation on Route 16, from Route 109 to Beaver St   | 608045            | PRC approved (2014)               | \$ 2,700,000     | SWAP              | 3                              |                             | Complete Streets          |
| Bellingham                             | Bellingham                                     | South Main St (Route 126) - Elm St to<br>Douglas Dr Reconstruction  | na                | Pre-PRC; PNF submitted<br>3/13/17 | -                | SWAP              | 3                              |                             | Complete Streets          |
| Franklin                               | MassDOT  | Resurfacing and Intersection Improvements on Route 140, from Beaver<br>St to I-495 Ramps  | 607774            | PRC approved                      | \$ 4,025,000     | SWAP              | 3                              |                             | Complete Streets          |
| Three Rivers Ir                        | terlocal Cou                                   | ncil  |                   |                                   |                  |                   |                                |                             |                           |
| Westwood                               | Westwood                                       | Reconstruction of Canton St and Everett St  | 608158            | PRC approved (2015)               | \$ 2,880,000     | TRIC              | 6                              |                             | Complete Streets          |
| Westwood                               | MassDOT  | Traffic Signal Improvements on Route 109  | 608947            | PRC approved                      | \$ 453,600       | TRIC              | 6                              |                             | Intersection Improvements |
| Multiple Su                            | bregions                                       |   |                   |                                   |                  |                   |                                |                             |                           |
| Newton, Weston                         | MassDOT  | Multi-use Trail Connection, from Recreation Road to Upper Charles<br>River Greenway including Reconstruction of Pedestrian Bridge N-12-<br>078=W-29-062 | 609066            | PRC approved                      | \$ 2,661,498     | ICC, MWRC         | 6                              | x                           | Bicycle and Pedestrian    |
| Milton                                 | Milton   | Intersection Improvements - Squantum St at Adams St   | 608955            | PRC approved (2017)               | \$ 979,763       | ICC,TRIC          | 6                              |                             | Intersection Improvements |
| Milton                                 | MassDOT  | Reconstruction on Granite Ave, from Neponset River to Squantum St   | 608406            | 25% design                        | \$ 3,665,146     | ICC,TRIC          | 6                              |                             | Complete Streets          |
|  | dy evaluated; recons<br>ate for the first time | sider for programming   |                   |                                   |                  |                   |                                |                             |                           |

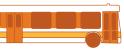
Evaluate for the first time this year

Not evaluated; no data for evaluation

MAPC = Metropolitan Area Planning Council. MassDOT = Massachusetts Department of Transportation. PNF = Project Need Form. PRC = MassDOT Project Review Committee. PROJIS=MassDOT project information system.

MAPC subregions: ICC = Inner Core Committee. MAGIC = Minuteman Advisory Group on Interlocal Coordination. MWRC = MetroWest Regional Collaborative. NSPC = North Suburban Planning Council. NSTF = North Shore Task Force. SSC = South Shore Coalition. SWAP = South West Advisory Planning Committee. TRIC = Three Rivers Interlocal Council.





FFY 2020 Transportation Improvement Program

#### Table A-2 **TIP Project Evaluation Criteria**

| OBJECTIVE   | CRITERIA   | SUBCRITERIA/SCORING  |
|---|--|--|
| SAFETY: Transportation by all modes will be safe.                               |  |  |
| Reduce the number and severity of crashes, for all modes                        | Crash Severity Value: EPDO index<br>(0–5 points)                 | <ul> <li>+5 EPDO value of 300 or more</li> <li>+4 EPDO value between 200 and 299</li> </ul>  |
| Reduce serious injuries and fatalities from transportation                      |  | <ul> <li>+3 EPDO value between 100 and 199</li> <li>+2 EPDO value between 50 and 99</li> </ul>   |
| Protect transportation customers and employees from safety and security threats |  | <ul><li>+1 EPDO value less than 50</li><li>+0 No EPDO value</li></ul>  |
|   | Crash Rate (either intersection or<br>corridor):<br>(0–5 points) | Intersection:         Evaluation Score       Signalized         +5 $\geq$ 1.69 $\geq$ 1.36         +4       1.31 - 1.69       1.03 - 1.36         +3       0.93 - 1.31       0.70 - 1.03         +2       0.55 - 0.93       0.37 - 0.70         +1       0.36 - 0.55       0.21 - 0.37         +0       < 0.36 |
|   | Improves truck-related safety issue (0–5 points)                 | <ul> <li>+3 High total effectiveness of truck safety countermeasures</li> <li>+2 Medium total effectiveness of truck safety countermeasures</li> <li>+1 Low total effectiveness of truck safety countermeasures</li> <li>+0 Does not implement truck safety countermeasures</li> </ul>                         |
|   |  | If project scores points above, then it is eligible for additional points below:<br>+2 Improves truck safety at HSIP Cluster   |

### Table A-2TIP Project Evaluation Criteria (cont. 2)

| OBJECTIVE                   | CRITERIA   | SUBCRITERIA/S  |
|-----------------------------|--|--|
|                             | Improves bicycle safety<br>(0–5 points)                                      | <ul> <li>+3 High total effectiveness of bicycle safety countermeasure</li> <li>+2 Medium total effectiveness of bicycle safety countermeasure</li> <li>+1 Low total effectiveness of bicycle safety countermeasure</li> <li>+0 Does not implement bicycle safety countermeasures</li> </ul>    |
|                             |  | If project scores points above, then it is eligible for additiona<br>+2 Improves bicycle safety at HSIP Bicycle Cluster<br>+1 Improves bicycle safety at HSIP Cluster  |
|                             | Improves pedestrian safety<br>(0–5 points)                                   | <ul> <li>+3 High total effectiveness of pedestrian safety countermeater</li> <li>+2 Medium total effectiveness of pedestrian safety counter</li> <li>+1 Low total effectiveness of pedestrian safety countermeasure</li> <li>+0 Does not implement pedestrian safety countermeasure</li> </ul> |
|                             |  | If project scores points above, then it is eligible for additiona<br>+2 Improves pedestrian safety at HSIP Pedestrian Cluster<br>+1 Improves pedestrian safety at HSIP Cluster   |
|                             | Improves safety or removes an at-<br>grade railroad crossing<br>(0–5 points) | <ul> <li>+5 Removes an at-grade railroad crossing</li> <li>+3 Significantly improves safety at an at-grade railroad cross</li> <li>+1 Improves safety at an at-grade railroad crossing</li> <li>+0 Does not include a railroad crossing</li> </ul>   |
| SAFETY (30 possible points) |  |  |
|                             |  |  |

EPDO = Equivalent Property Damage Only; HSIP = Highway Safety Improvement Program; VMT= vehicle-miles traveled.

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### Table A-2TIP Project Evaluation Criteria (cont. 3)

| OBJECTIVE   | CRITERIA   | SUBCRITERIA/S   |
|---|--|---|
| SYSTEM PRESERVATION: Maintain the transportation system.  |  |   |
| Improve the condition of on- and off-system bridges<br>Improve pavement condition on the MassDOT-monitored roadway system   | Improves substandard roadway<br>bridge(s)<br>(0–3 points)        | <ul> <li>+3 Condition is structurally deficient and improvements a</li> <li>+1 Condition is functionally obsolete and improvements a</li> <li>+0 Does not improve substandard bridge or does not include</li> </ul> |
| Maintain and modernize capital assets throughout the system   | Improves substandard pavement<br>(up to 6 points)                | <ul> <li>+6 IRI rating greater than 320: Poor condition and pavene</li> <li>+4 IRI rating between 320 and 191: Fair condition and pavene</li> <li>+0 IRI rating less than 190: Good or better condition</li> </ul>  |
| Maintain and modernize capital assets throughout the system (surface condition of<br>sidewalks)<br>Prioritize projects that support planned response capability to existing or future<br>extreme conditions (sea level rise, flooding, and other natural and security-related | Improves substandard traffic signal<br>equipment<br>(0–6 points) | <ul> <li>+6 Poor condition — improvements are included in the p</li> <li>+4 Fair condition — improvements are included in the pr</li> <li>+0 Does not meet or address criteria</li> </ul>                           |
| man-made hazards)<br>Protect freight network elements, such as port facilities, that are vulnerable to<br>climate-change impacts  | Improves transit asset(s)<br>(0–3 points)                        | <ul> <li>+2 Brings transit asset into state of good repair</li> <li>+1 Meets an identified need in an Asset Management Plan</li> <li>+0 Does not meet or address criteria</li> </ul>                                |
|   | Improves substandard sidewalk(s)<br>(0–3 points)                 | <ul> <li>+3 Poor condition and sidewalk improvements are include</li> <li>+2 Fair condition and sidewalk improvements are included</li> <li>+0 Sidewalk condition is good or better</li> </ul>                      |
|   | Improves emergency response                                      | +1 Project improves an evacuation route, diversion route,   |
|   | (0–2 points)   | +1 Project improves an access route to or in proximity to   |
|   | Improves ability to respond to                                   | +2 Addresses flooding problem and/or sea level rise and e   |
|   | extreme conditions   | +1 Brings facility up to current seismic design standards   |
|   | (0–6 points)   | +1 Addresses critical transportation infrastructure   |
|   |  | +1 Protects freight network elements  |
|   |  | +1 Implements hazard mitigation or climate adaptation pla   |

#### SYSTEM PRESERVATION (29 possible points)

IRI = International Roughness Index

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### Table A-2TIP Project Evaluation Criteria (cont. 4)

| OBJECTIVE   | CRITERIA  | SUBCRITERIA/S   |
|---|---|---|
| CAPACITY MANAGEMENT/MOBILITY: Use existing facility capacity more efficiently and increase healthy transportation options.  |   |   |
| Improve reliability of transit<br>Implement roadway management and operations strategies, constructing  | Reduces transit vehicle delay<br>(0–4 points)                                   | <ul> <li>+3 5 hours or more of daily transit vehicle delay reduced</li> <li>+2 I-5 hours of daily transit vehicle delay reduced</li> <li>+1 Less than one hour of daily transit vehicle delay reduce</li> <li>+0 Does not reduce transit delay</li> </ul> |
| improvements to the bicycle and pedestrian network, and supporting community-<br>based transportation   |   | If project scores points above, then it is eligible for addition<br>+1 Improves one or more key bus route(s)  |
| Create connected network of bicycle and accessible sidewalk facilities (at both regional and neighborhood scale) by expanding existing facilities and closing gaps  | Improves pedestrian network and   | +2 Adds new sidewalk(s) (including shared-use paths)  |
|   | ADA accessibility   | +2 Improves ADA accessibility   |
| Increase automobile and bicycle parking capacity and usage at transit stations  | (0–5 points)  | +1 Closes a gap in the pedestrian network   |
| Increase the percentage of population and places of employment within one-quarter   |   | +0 Does not improve pedestrian network  |
| mile of transit stations and stops<br>Increase the percentage of population and employment with access to bicycle facilities  | Improves bicycle network<br>(0–4 points)  | <ul> <li>+3 Adds new physically separated bicycle facility (including</li> <li>+2 Adds new buffered bicycle facility</li> <li>+1 Adds new standard bicycle facility</li> </ul>  |
| Improve access to and accessibility of transit and active modes   |   | <ul><li>+1 Closes a gap in the bicycle network</li><li>+0 Does not improve bicycle network</li></ul>  |
| Enhance intermodal connections<br>Support community-based and private-initiative services and programs to meet last-<br>mile, reverse-commute and other non-traditional transit and transportation needs,<br>including those of the elderly and persons with disabilities | Improves intermodal<br>accommodations/connections to<br>transit<br>(0–6 points) | <ul> <li>+6 Meets or addresses criteria to a high degree</li> <li>+4 Meets or addresses criteria to a medium degree</li> <li>+2 Meets or addresses criteria to a low degree</li> <li>+0 Does not meet or address criteria</li> </ul>                      |
| Eliminate bottlenecks on the freight network  | Improves truck movement<br>(0–4 points)   | <ul> <li>+3 Meets or addresses criteria to a high degree</li> <li>+2 Meets or addresses criteria to a medium degree</li> <li>+1 Meets or addresses criteria to a low degree</li> <li>+0 Does not meet or address criteria</li> </ul>                      |
|   |   | If project scores points above, then it is eligible for addition<br>+1 Addresses MPO-identified bottleneck location   |
|   | Reduces vehicle congestion<br>(0–6 points)                                      | <ul> <li>+6 400 hours or more of daily vehicle delay reduced</li> <li>+4 100-400 hours of daily vehicle delay reduced</li> <li>+2 Less than 100 hours of daily vehicle delay reduced</li> <li>+0 Does not meet or address criteria</li> </ul>             |

#### CAPACITY MANAGEMENT/MOBILITY (29 possible points)

ADA = Americans with Disabilities Act

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#### Table A-2 TIP Project Evaluation Criteria (cont. 5)

| OBJECTIVE  | CRITERIA   | SUBCRITERIA/SCORING   |
|--|--|---|
| CLEAN AIR/CLEAN COMMUNITIES: Create an environmentally friendly  |  |   |
| transportation system.   |  |   |
| Reduce GHGs generated in the Boston region by all transportation modes as outlined<br>in the Global Warming Solutions Act<br>Reduce other transportation-related pollutants<br>Minimize negative environmental impacts of the transportation system, when possible<br>Support land-use policies consistent with smart and healthy growth | Reduces CO <sub>2</sub><br>(-5–5 points)   | <ul> <li>+5 1,000 or more annual tons of CO2 reduced</li> <li>+4 500-999 annual tons of CO2 reduced</li> <li>+3 250-499 annual tons of CO2 reduced</li> <li>+2 100-249 annual tons of CO2 reduced</li> <li>+1 Less than 100 annual tons of CO2 reduced</li> <li>0 No impact</li> <li>-1 Less than 100 annual tons of CO2 increased</li> <li>-2 100-249 annual tons of CO2 increased</li> <li>-3 250-499 annual tons of CO2 increased</li> <li>-4 500-999 annual tons of CO2 increased</li> <li>-5 1,000 or more annual tons of CO2 increased</li> </ul>   |
|  | Reduces other transportation-<br>related emissions (VOC, NOx, CO)<br>(-5–5 points) | <ul> <li>+5 2,000 or more total kilograms of VOC, NOx, CO reduced</li> <li>+4 1,000-1,999 total kilograms of VOC, NOx, CO reduced</li> <li>+3 500-999 total kilograms of VOC, NOx, CO reduced</li> <li>+2 250-499 total kilograms of VOC, NOx, CO reduced</li> <li>+1 Less than 250 total kilograms of VOC, NOx, CO reduced</li> <li>0 No impact</li> <li>-1 Less than 250 total kilograms of VOC, NOx, CO increased</li> <li>-2 250-499 total kilograms of VOC, NOx, CO increased</li> <li>-3 500-999 total kilograms of VOC, NOx, CO increased</li> <li>-4 1,000-1,999 total kilograms of VOC, NOx, CO increased</li> <li>-5 2,000 or more total kilograms of VOC, NOx, CO increased</li> </ul> |
|  | Addresses environmental impacts<br>(0–4 points)                                    | +1       Addresses water quality         +1       Addresses cultural resources or open space         +1       Addresses wetlands or resource areas  |
|  |  | <ul> <li>+1 Addresses wildlife preservation or protected habitats</li> <li>+0 Does not meet or address criteria</li> </ul>  |
|  | Is in an EOEEA-certified "Green<br>Community"<br>(0–2 points)                      | <ul> <li>+0 Does not meet or address criteria</li> <li>+2 Project is located in a "Green Community"</li> <li>+0 Project is not located in a "Green Community"</li> </ul>  |
| CLEAN AIR/CLEAN COMMUNITIES (16 possible points)   |  |   |

CO = carbon monoxide; CO2 = carbon dioxide; EOEEA = Executive Office of Energy and Environmental Affairs; GHG = greenhouse gas; NOx = nitrogen oxides; VOCs = volatile organic compounds.

### Table A-2 TIP Project Evaluation Criteria (cont. 6)

| OBJECTIVE  | CRITERIA  | SUBCRITERIA/SCORING   |
|--|---|---|
| TRANSPORTATION EQUITY: Provide comparable access and service quality among   |   |   |
| communities, regardless of income level or minority population.<br>Target investments to areas that benefit a high percentage of low-income and  | Serves Title VI/non-discrimination  | +2 Serves minority (high concentration) population (> 2,000 people)   |
| minority populations   | populations<br>(-10–12 points)  | <ul> <li>+1 Serves minority (low concentration) population (≤ 2,000 people)</li> <li>+2 Serves low-income (high concentration) population (&gt; 2,000 people)</li> <li>+1 Serves low-income (high concentration) population (&gt; 2,000 people)</li> </ul>  |
| Minimize any burdens associated with MPO-funded projects in low income and minority areas  | Regional Thresholds:<br>- Elderly: 6.7%   | <ul> <li>+1 Serves low-income (low concentration) population (≤ 2,000 people)</li> <li>+2 Serves limited-English proficiency (high concentration) population (&gt; 1,000 people)</li> <li>+1 Serves limited English proficiency (how concentration) population (&gt; 1,000 people)</li> </ul>   |
| Break down barriers to participation in MPO-decision making  | - Minority: 28.2%<br>- People with a disability: 10.0%  | <ul> <li>+1 Serves limited-English proficiency (low concentration) population (≤ 1,000 people)</li> <li>+2 Serves elderly (high concentration) population (&gt; 2,000 people)</li> <li>+1 Serves elderly (low concentration) population (≤ 2,000 people)</li> </ul>   |
|  | - Limited-English proficiency<br>population: 10.6%  | <ul> <li>+2 Serves zero-vehicle households (high concentration) population (&gt; 1,000 people)</li> <li>+1 Serves zero-vehicle households (low concentration) population (&lt; 1,000 people)</li> </ul>   |
|  | - Low-income households: 32.2%<br>- Zero-vehicle households: 16.1%  | <ul> <li>+2 Serves persons with disabilities (high concentration) population (&gt; 1,000 people)</li> <li>+1 Serves persons with disabilities (low concentration) population (≤ 1,000 people)</li> </ul>  |
|  |   | +0 Does not serve Title VI or non-discrimination populations  |
|  |   | -10 Creates a burden for Title VI or non-discrimination populations   |
| TRANSPORTATION EQUITY (12 possible points)   |   |   |
| ECONOMIC VITALITY: Ensure our transportation network provides a strong foundation for economic vitality.   |   |   |
| Prioritize transportation investments that serve targeted development sites<br>Prioritize transportation investments that support development consistent with the<br>compact growth strategies of MetroFuture<br>Minimize the burden of housing and transportation costs for residents in the region | Serves targeted development site<br>(0–6 points)  | <ul> <li>+2 Provides new transit access to or within site</li> <li>+1 Improves transit access to or within site</li> <li>+1 Provides for bicycle access to or within site</li> <li>+1 Provides for pedestrian access to or within site</li> <li>+1 Provides for improved road access to or within site</li> <li>+0 Does not provide any of the above measures</li> </ul>  |
|  | Provides for development<br>consistent with the compact<br>growth strategies of MetroFuture<br>(0–5 points) | <ul> <li>+2 Mostly serves an existing area of concentrated development</li> <li>+1 Partly serves an existing area of concentrated development</li> <li>+1 Supports local zoning or other regulations that are supportive of smart growth development</li> <li>+2 Complements other local financial or regulatory support that fosters economic revitalization in a manner consistent with smart growth development principles</li> <li>+0 Does not provide any of the above measures</li> </ul> |

## Table A-2TIP Project Evaluation Criteria (cont. 7)

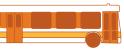
| OBJECTIVE                              | CRITERIA  | SUBCRITERIA/SCORI  |
|--|---|--|
|  | Provides multimodal access to an                                  | +I Provides transit access (within a quarter mile) to an activity c  |
|  | activity center   | +1 Provides truck access to an activity center   |
|  | (0–4 points)  | + I Provides bicycle access to an activity center  |
|  |   | +1 Provides pedestrian access to an activity center  |
|  |   | +0 Does not provide multimodal access  |
|  | Leverages other investments (non-<br>TIP funding)<br>(0–3 points) | <ul> <li>+3 Meets or addresses criteria to a high degree (&gt;30% of the pro-</li> <li>+2 Meets or addresses criteria to a medium degree (10-30% of the pro-</li> <li>+1 Meets or addresses criteria to a low degree (&lt;10% of the pro-</li> <li>+0 Does not meet or address criteria</li> </ul> |
| ECONOMIC VITALITY (18 possible points) |   |  |
| TOTAL SCORE (134 possible points)      |   |  |

#### RING

center

project cost) of the project cost) project cost)





FFY 2020 Transportation Improvement Program

#### and ADA accessibility (0–5 points) Improves ability to respond to extreme conditions (0–6 points) points) points) 9-0) Improves substandard traffic signals (0–6 points) Improves substandard sidewalk(s) (0–3 points) Preservation Score (29 possible points) Improves substandard roadway bridge(s) (0–3 Crash Severity Value: EPDO Index (0–5 points) safety (0–5 points) Improves substandard pavement (0-6 points) nsit Improves emergency response (0–2 points) Reduces transit vehicle delay (0-4 points) Revised Total Score (134 possible points) Improves pedestrian safety (0–5 points) possible points) Improves bicycle network (0-4 points) Improves transit asset(s) (0–3 points) ç Improves bicycle safety (0–5 points) Improves truck safety (0–5 points) points) pedestrian network railroad crossing possible Crash Rate (0–5 points) Score (134 (30 Score Initial Total mproves Improves System | Safety Project Municipality Proponent TIP ID **Project Name** Cost (Projects grouped by MPO Investment Category) **Bicycle/Pedestrian** Neponset River Greenway 4 5 \$4,972,500 42 11 3 0 0 0 0 0 608943\* DCR 42 4 0 0 0 0 3 4 0 Boston Δ (Phase 3) Independence Greenway \$1,921,075 31 34 9 0 3 0 0 609211\* Peabody Peabody Т 2 3 0 0 0 0 0 3 5 4 0 4 Extension Pedestrian Hybrid Beacon · 4 ' 608006 Framingham MassDOT Installation at Route 9 and \$886,228 26 26 11 2 0 0 4 6 0 0 4 0 0 0 2 0 0 Maynard Rd Multi-Use Trail Connection (Recreation Rod to Upper \$2,661,498 24 24 6 0 0 0 3 3 0 3 0 0 0 0 3 0 0 5 4 609066\* Weston MassDOT Charles River Greenway, 0 0 9 including Reconstruction of Pedestrian Bridge) **Complete Streets** 6 I 3 2 2 1 2 \$16,952,000 0 5 6 609252\* Lynn Lynn Rehabilitation of Essex St 61 66 19 5 5 4 0 17 0 Ι 0

### Table A-3TIP Project Evaluation Results

Appendix A

| Improves intermodal connections to transit (u=o points) | Improves truck movement (0–4 points) | Reduces vehicle congestion (0–6 points) | Clean Air/Sustainable Communities Score (16 possible points) | Reduces CO <sub>2</sub> emissions (-5–5 points) | Reduces other transportation-related emissions (-5–5 points) | Addresses environmental impacts (0–4 points) | Located in an EOEEA-certified "Green Community" (0–2 points | Transportation Equity Score (12 possible points) | Economic Vitality Score (18 possible points) | Serves targeted development site (0-6 points) | Provides for development consistent with the compact growth strategies of MetroFuture (0–5 points) | Provides intermodal access to activity center (0–4 points) | Leverages other investments (non-TIP funding) (0–3 points) |  |
|---|--------------------------------------|---|--|---|--|--|---|--|--|---|--|--|--|--|
|   |                                      |   |  |   |  |  |   |  |  |   |  |  |  |  |
| )   | 0                                    | 0                                       | 10   | 3   | 4  | I  | 2   | 7  | I  | 0   | I  | 0  | 0  |  |
| )   | 0                                    | 0                                       | 4  | Ι   | Ι  | 2  | 0   | 4  | 4  | 0   | 2  | 2  | 0  |  |
| )   | 0                                    | 0                                       | 2  | 0   | 0  | 0  | 2   | I  | 4  | 0   | 2  | 2  | 0  |  |
| )   | 0                                    | 0                                       | 4  | I   | I  | 0  | 2   | 2  | 0  | 0   | 0  | 0  | 0  |  |
|   |                                      |   |  |   |  |  |   |  |  |   |  |  |  |  |
|   |                                      |   |  |   |  |  |   |  |  |   |  |  |  |  |

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| TIP ID  | Municipality | Proponent  | Project Name  | Project<br>Cost | Initial Total Score (134 possible points) | Revised Total Score (134 possible points) | Score (30 possible points) | Crash Severity Value: EPDO Index (0–5 points)<br>Crash Rate (0–5 noints) | ves truck s | bicycle safety (0– | pedestrian safety ( | railroad crossing safet) | eservation Score | Improves substandard roadway bridge(s) (0–3 points) | s substandard pavemen | substandard traffic si | transit asset(s) (0–3 points) | substandard sidewalk(s) ( | Improves emergency response (u=1 points)<br>Improves ability to respond to extreme conditions (0–6 points) | Management/Mohility Score (25 | Reduces transit vehicle delay (0–4 points) | Improves pedestrian network and ADA accessibility (0–5 points) | Improves bicycle network (0–4 points) | intermodal connection | Improves truck movement (0–4 points) | congestion (0–6 points) | r/Sustainable Commu | CO <sub>2</sub> emissions (-3–3 points)<br>other turnersetion volated emirciane / E E | Reduces other transportation-related emissions (->-> points)<br>Addresses environmental impacts (0-4 points) | in an EOEEA-certified "Green ( | tion Equity Score (12 possible points) | ic Vitality Score (18 possible | rrgeted development site (0–6 points) | Provides for development consistent with the compact growth strategies of MetroFuture (0–5 points) | intermodal access to | Leverages other investments (non-TIP funding) (0–3 points) |
|---------|--------------|------------|---|-----------------|---|---|----------------------------|--|-------------|--------------------|---------------------|--------------------------|------------------|---|-----------------------|------------------------|-------------------------------|---------------------------|--|-------------------------------|--|--|---------------------------------------|-----------------------|--------------------------------------|-------------------------|---------------------|---|--|--------------------------------|--|--------------------------------|---------------------------------------|--|----------------------|--|
| 608051* | Wilmington   | Wilmington | Reconstruction of Route 38<br>(Main St), from Route 62 to the<br>Woburn City Line   | \$10,802,316    | 51  | 59  | 15                         | 4 2  | 3           | 2                  | 4                   | 0                        | 12               | 0   | 2                     | 4                      | 0                             | 3 1                       | 1 2  | 13                            | 3 0  | 5  | 2                                     | 4                     | 0                                    | 2                       | 0 4                 | 4 3   | 3 3  | 0                              | 1                                      | 8                              | 3                                     | I  | 2                    | 2  |
| 605168  | Hingham      | Hingham    | Intersection Improvements at<br>Route 3A/Summer St Rotary                           | \$7,500,001     | 55  | 55  | 10                         | 3 I  | 0           | 3                  | 3                   | 0                        | 16               | 0   | 4                     | 4                      | 0                             | 3 1                       | 4  | 17                            | 72   | 4  | 4                                     | I                     | 0                                    | 6                       | 0 3                 | 3 2   | 2 3  | 2                              | 0                                      | 2                              | 0                                     | 0  | 2                    | 0  |
| 609257* | Everett      | Everett    | Rehabilitation of Beacham St,<br>from Route 99 to Chelsea City<br>Line              | \$9,180,000     | 54  | 54  | 19                         | I 5  | 4           | 4                  | 4                   | I                        | 10               | 0   | 6                     | 0                      | 0                             | 3 1                       | I 0  | 13                            | 3 0  | 5  | 4                                     | 0                     | 4                                    | 0                       | 4 1                 |   | 0  | 2                              | 7                                      | ı                              | 0                                     | I  | 0                    | 0  |
| 601704  | Newton       | Newton     | Reconstruction and Signal<br>Improvements on Walnut St,<br>from Homer St to Route 9 | \$4,648,360     | 45  | 45  | 14                         | 4 3  | 3           | 2                  | 2                   | 0                        | 12               | 0   | 6                     | 4                      | 0                             | 2 0                       | 0 0  | 7                             | 0  | 0  | I                                     | 6                     | 0                                    | 0                       | 4 -                 |   | 1 2  | 2                              | 0                                      | 8                              | 3                                     | 2  | 3                    | 0  |
| 602310  | Danvers      | Danvers    | Reconstruction of Collins St,<br>from Sylvan St to Centre and<br>Holten Sts         | \$5,183,121     | 44  | 44  | 8                          | 1 2  | I           | 2                  | 2                   | 0                        | 12               | 0   | 6                     | 6                      | 0                             | 0 0                       | 0 0  | 12                            | 2 0  | 4  | I                                     | 2                     | I                                    | 4                       | 5 2                 | 2 1   | 1 2  | 0                              | 2                                      | 5                              | I                                     | 2  | 2                    | 0  |
| 608045  | Milford      | MassDOT    | Rehabilitation on Route 16, from<br>Route 109 to Beaver St                          | \$2,700,000     | 43  | <b>43</b>                                 | 20                         | 5 5  | 4           | 2                  | 4                   | 0                        | 7                | 0   | 0                     | 4                      | 0                             | 2 1                       | 0  | 9                             | I  | 5  | I                                     | 0                     | 2                                    | 0.                      | 1 -                 | I -   | 1  | 0                              | 3                                      | 5                              | 3                                     | I  | I                    | 0  |
| 609054* | Littleton    | Littleton  | Reconstruction of Foster St   | \$3,522,546     | 37  | 38  | 12                         | I 2  | 0           | 3                  | 3                   | 3                        | 3                | 0   | 0                     | 0                      | 0                             | 3 0                       | 0 0  | П                             | I 0  | 5  | 4                                     | 2                     | 0                                    | 0                       | 5                   |   | I  | 2                              | 1                                      | 6                              | 4                                     | 2  | 0                    | 0  |

## Table A-3TIP Project Evaluation Results (cont. 2)

| TIP ID<br>Intersection | Municipality | •          | Project Name  | Project<br>Cost | Initial Total Score (134 possible points) | Revised Total Score (134 possible points) |    | Crash Severity Value: EPDO Index (0–5 points) | Crash Rate (0–5 points) | Improves truck safety (0–5 points) | bicycle safety (0–5 poi | anioq c-u) | Processing salety ( | Jystem Freservation Score (27 possible points)<br>Improves substandard roadway bridge(s) (0–3 points) | substandard navement (0-6 noints) | Improves substandard traffic signals (0–6 points) | s transit asset(s) (0–3 points) |   | emergency response (0–2 poi | Improves ability to respond to extreme conditions (0–6 points) | Capacity Management/Mobility Score (29 possible points) | Reduces transit vehicle delay (0–4 points) | a | Improves bicycle network (0–4 points) | intermodal connection | Improves truck movement (0–4 points) | es vehicle congestion (0–6 points) | r/Sustainable Commu | Reduces CO <sub>2</sub> emissions (-2-5 points) | Reduces other transportation-related emissions (->-> points)<br>Addresses environmental impacts (0-4 points) | in an EOEEA-certified "Green ( | ble points) | nic Vitality Score (18 possible po | geted development sons | s of MetroFuture (U–5 points) | Provides intermodal access to activity center (0–4 points)<br>Leverages other investments (non-TIP funding) (0–3 points) |
|------------------------|--------------|------------|---|-----------------|---|---|----|---|-------------------------|------------------------------------|-------------------------|------------|---------------------|---|-----------------------------------|---|---------------------------------|---|-----------------------------|--|---|--|---|---------------------------------------|-----------------------|--------------------------------------|------------------------------------|---------------------|---|--|--------------------------------|-------------|------------------------------------|------------------------|-------------------------------|--|
| 609253*                | Wilmington   | Wilmington | Intersection Improvements<br>at Lowell St (Route 129) and<br>Woburn St                                | \$3,400,000     | 49  | 53  | 13 | 2   | 3                       | I                                  | 3 4                     | 4 (        | ) Ľ                 | 2 0   | 2                                 | 6   | 0                               | 3 | 0                           | I  | 16  | 0  | 5 | 2                                     | 0                     | 3                                    | 6                                  | 9 4                 | 4   | 3 2  | 0                              | 1           | 2                                  | ) 2                    | (                             | 0 0  |
| 608889*                | Framingham   | Framingham | Traffic Signal Installation at Edgell<br>Rd and Central St  | \$1,680,000     | 26  | 41  | 9  | I   | 2                       | I                                  | 2                       | 3 0        |                     | 0 0   | 4                                 | 0   | 0                               | 3 | 0                           | 3  | 7   | 0  | 3 | I                                     | 0                     | I                                    | 2                                  | 9 3                 | 3   | 2 2  | 2                              | 2           | 4                                  | ) I                    | (                             | 0 3  |
| 609254*                | Lynn         | Lynn       | Traffic and Safety Improvements at Two Locations on Broadway  | \$5,870,300     | 34  | 39  | 13 | 3   | 4                       | 0                                  | 2                       | 4 C        | ) 1:                | 3 0   | 4                                 | 6   | 0                               | 3 | 0                           | 0  | 7   | 0  | 2 | I                                     | 2                     | 0                                    | 2                                  | 2                   | I   | I 0  | 0                              | I           | 3                                  | ) 3                    | (                             | 0 0  |
| 608436*                | Ashland      | Ashland    | Rehabilitation and Rail Crossing<br>Improvements on Cherry St   | \$990,000       | 38  | 38  | 12 | I   | 4                       | 0                                  | 1                       | 3 3        | 8 10                | 0 0   | 6                                 | 0   | 0                               | 3 | I                           | 0  | 5   | 0  | 5 | 0                                     | 0                     | 0                                    | 0                                  | 2 (                 | ) (   | 0 0  | 2                              | I           | 8                                  | 2 3                    | (                             | 0 3  |
| 604231                 | Marlborough  | MassDOT    | Intersection and Signal<br>Improvements on Route 20<br>(East Main St/Boston Post Rd) at<br>Concord Rd | \$1,706,600     | 35  | 35  | 5  | Ι   | 2                       | 0                                  | 0                       | 2 (        | ) 6                 | 5 0   | 4                                 | 0   | 0                               | 2 | 0                           | 0  | 8   | I  | 2 | 0                                     | 0                     | I                                    | 4                                  | 6                   | 2   |  | 2                              | 3           | 7                                  | 3 3                    |                               | I 0  |
|                        |              |            | Concord Rd  |                 |   |   |    |   |                         |                                    |                         |            |                     |   |                                   |   |                                 |   |                             |  |   |  |   |                                       |                       |                                      |                                    |                     |   |  |                                |             |                                    |                        |                               |  |
| Major Infr             | astructure   |            |   |                 |   |   |    |   |                         |                                    |                         |            |                     |   |                                   |   |                                 |   |                             |  |   |  |   |                                       |                       |                                      |                                    |                     |   |  |                                | 10          |                                    |                        |                               |  |

### Table A-3 TIP Project Evaluation Results (cont. 3)

Appendix A

| TIP ID  | Municipality        | Proponent | Project Name   | Project<br>Cost | Initial Total Score (134 possible points) | l Score (134 | Safety Score (30 possible points) | Severity | crasn nate (0–5 points)<br>Improves truck safety (0–5 points) | bicycle safet |   | railroad crossing | System Preservation Score (29 possible points) | substandard roadway brid | substandard pavement (0–6 poi | -U) cibilais<br>8 nointe) | Improves substandard sidewalk(s) (0–3 points) | emergency response (0–2 poi | Improves ability to respond to extreme conditions (0–6 points) | Management/Mobilit | transit vehicle delay (0–4 points) | pedestrian network | bicycle network (u–4 points) | Improves intermodal connections to transit (0–6 points)<br>Improves truck movement (0–4 points) |     | Reduces vehicle congestion (0–6 points)<br>Clean Air/Sustainable Communities Score (16 possible points) | sions (-5–5 points) | er transportatio | s environmental impacts (0–4 | Located in an EOEEA-certified "Green Community" (0–2 points) | quity Score (1 | Economic Vitality Score (18 possible points)<br>Serves targeted develonment site (0–6 noints) | is for development consistent w |   | s (non-TIP |
|---------|---------------------|-----------|--|-----------------|---|--------------|-----------------------------------|----------|---|---------------|---|-------------------|--|--------------------------|-------------------------------|---------------------------|---|-----------------------------|--|--------------------|------------------------------------|--------------------|------------------------------|---|-----|---|---------------------|------------------|------------------------------|--|----------------|---|---------------------------------|---|------------|
| 609246* | Lynn                | Lynn      | Reconstruction of Western Ave<br>(Route 107)   | \$36,205,000    | 64  | 70           | 17                                | 5 5      | 5 0   | 2             | 5 | 0                 | 16   | 0                        | 4 6                           | 5 1                       | 3   | 2                           | 0  | 14                 | 2                                  | 2                  | I :                          | 2 1   | (   | 6 9   | 4                   | 5                | 0                            | 0  | 10             | 4 0   | 3                               | I | 0          |
| 608449  | Boston              | Boston    | Improvements along<br>Commonwealth Ave (Route<br>30), from Alcorn St to Warren/<br>Kelton Sts (Phases 3 and 4) | \$31,036,006    | 64  | 64           | 14                                | 2        | 0   | 5             | 3 | 3                 | 12   | 0                        | 4 4                           | ł 0                       | 2   | 2                           | 0  | 11                 | 0                                  | 0 4                | 4                            | 6 I   | (   | 0 8   | 2                   | 3                | I                            | 2  | 8              | 14  | 4                               | 3 | 0          |
| 605313  | Natick              | Natick    | Bridge Replacement, Route 27<br>(North Main St) over Route 9<br>(Worcester St) and Interchange<br>Improvements | \$25,897,370    | 60  | 60           | 20                                | 5 5      | 5 3   | 3             | 4 | 0                 | 19   | 3                        | 6 6                           | 5 0                       | 3   | 0                           | I  | 10                 | 0                                  | 4                  | I -                          | 4 1   | (   | 0 4   | -1                  | I                | 2                            | 2  | 1              | 6 0   | 3                               | 3 | 0          |
| 87790   | Canton,<br>Westwood | MassDOT   | Interchange Improvements at<br>I-95 / I-93 / University Ave / I-95<br>Widening                                 | <del></del>     | 48  | 48           | 18                                | 5 (      | ) 5   | 4             | 4 | 0                 | 6  | 3                        | 0 0                           | ) 0                       | 0   | 0                           | 3  | 17                 | 0                                  | 5 4                | 4                            | 4 4   | . ( | 0 - I   | -2                  | -5               | 4                            | 2  | 1              | 7 3   | I                               | 3 | 0          |
| 601513  | Saugus              | Saugus    | Interchange Reconstruction at<br>Walnut St and Route I (Phase II)  | \$19,581,123    | 43  | 43           | П                                 | 3 3      | 3 0   | 2             | 3 | 0                 | П  | 0                        | 4 6                           | 5 0                       | 0   | I                           | 0  | 9                  | I                                  | 4                  | 1                            | 0 1   |     | 2 6   | I                   | I                | 2                            | 2  | 2              | 4 0   | I                               | 3 | 0          |
| 604638  | Danvers,<br>Peabody | MassDOT   | Mainline Improvements on<br>Route 128 (Phase II)   | \$24,031,419    | 36  | 36           | 14                                | 5 4      | 4 5   | 0             | 0 | 0                 | 8  | 3                        | 4 (                           | ) 0                       | 0   | I                           | 0  | 5                  | Ι                                  | 0 (                | 0                            | 0 2   |     | 2 3   | I                   | I                | I                            | 0  | 3              | 3 1   | I                               | I | 0          |

\* Projects evaluated for the first time in FFY 2019. All other projects were re-evaluated in FFY 2019 with updated data and project information, where available.

Abbreviations: ADA = Americans with Disabilities Act. DCR = Department of Conservation and Recreation. EOEEA = Executive Office of Energy and Environmental Affairs. EPDO = Equivalent Property Damage Only. MassDOT = Massachusetts Department of Transportation.

FFYs 2020-24 Transportation Improvement Program

## Table A-4Final Project Evaluation Results and First-Tier List

|                    | Municipality          |                    |   | Project Cost               | Design Status                | Year of PRC Approval | Earliest FFY of Advertising for Construction Contract <sup>a</sup> | MAPC Subregion <sup>b</sup> | MAPC Community Type <sup>c</sup> | MassDOT Highway District | CTPS Study | Location-Specific LRTP-Identified Need <sup>d</sup> | Relationship to National Highway System | Initial Total Score (134 possible points) | Revised Total Score (134 possible points) | Safety Score (30 possible points) | System Preservation Score (29 possible points) | Capacity Management/Mobility Score (29 possible points) | Clean Air/Sustainable Communities Score (16 possible points) | Transportation Equity Score (12 possible points) | Economic Vitality Score (18 possible points) |
|--------------------|-----------------------|--------------------|---|----------------------------|------------------------------|----------------------|--|-----------------------------|----------------------------------|--------------------------|------------|---|---|---|---|-----------------------------------|--|---|--|--|--|
|                    | grouped by MPC        | O Investment       | Category)   |                            |                              |                      |  |                             |                                  |                          |            |   |   |   |   |                                   |  |   |  |  |  |
| Bicycle/Pe         |                       | DCD                | New york Divers Conserver (Divers 2)  | ¢4.072.500                 |                              | 2017                 | 2024   | 100                         |                                  | 1                        |            |   |   | 42  | 42  |                                   |  |   |  | 7  |  |
| 608943*<br>609211* | Boston<br>Beebedy     | DCR<br>Beekedy     | Neponset River Greenway (Phase 3)   | \$4,972,500<br>\$1,921,075 | PRC Approved<br>PRC Approved | 2017                 | 2024   | ICC<br>NSTF                 | IC<br>RUC                        | 6<br>4                   |            |   |   | 42<br>31                                  | 42<br>34                                  |                                   | 4  | 9   |  |  |  |
| 608006             | Peabody<br>Framingham | Peabody<br>MassDOT | Independence Greenway Extension<br>Pedestrian Hybrid Beacon Installation at Route 9 and<br>Maynard Rd                           | \$886,228                  | 25% Submitted                | 2018<br>2014         | 2024<br>2024   | MWRC                        | RUC                              | 3                        |            |   | On NHS                                  | <b>26</b>                                 |   | 9<br>11                           | 6  | 2   | 2  | 4  | 4  |
| 609066*            | Weston                | MassDOT            | Multi-Use Trail Connection (Recreation Rd to Upper<br>Charles River Greenway, including Reconstruction of<br>Pedestrian Bridge) | \$2,661,498                | 25% Submitted                | 2018                 | 2024   | MWRC                        | MS                               | 6                        |            |   |   | 24  | 24  | 6                                 | 3  | 9   | 4  | 2  | 0  |
| Complete           | Streets               |                    |   |                            |                              |                      |  |                             |                                  |                          |            |   |   |   |   |                                   |  |   |  |  |  |
| 609252*            | Lynn                  | Lynn               | Rehabilitation of Essex Street  | \$16,952,000               | PRC Approved                 | 2018                 | 2024   | ICC                         | RUC                              | 4                        |            | Safety  | Partially<br>on NHS                     | 61  | 66  | 19                                | 17   | 9   | 8  | 10   | 3  |
| 608051*            | Wilmington            | Wilmington         | Reconstruction of Route 38 (Main St), from Route 62 to the Woburn City Line   | \$10,802,316               | 25% Submitted                | 2014                 | 2023   | NSPC                        | MS                               | 4                        |            | CMM   | On NHS                                  | 51  | 59  | 15                                | 12   | 13  | 10   | I  | 8  |
| 605168             | Hingham               | Hingham            | Intersection Improvements at Route 3A/Summer St Rotary  | \$7,500,001                | PRC Approved                 | 2009                 | 2024   | SSC                         | MS                               | 5                        | х          |   | Partially<br>on NHS                     | 55  | 55  | 10                                | 16   | 17  | 10   | 0  | 2  |
| 609257*            | Everett               | Everett            | Rehabilitation of Beacham Street, from Route 99 to Chelsea<br>City Line   | \$9,180,000                | PRC Approved                 | 2018                 | 2024   | ICC                         | IC                               | 4                        |            |   |   | 54  | 54  | 19                                | 10   | 13  | 4  | 7  | 1  |
| 601704             | Newton                | Newton             | Reconstruction and Signal Improvements on Walnut St, from<br>Homer St to Route 9  | \$4,648,360                | 25% Submitted                | 1996                 | 2024   | ICC                         | IC                               | 6                        |            |   |   | 45  | 45  | 14                                | 12   | 7   | 4  | 0  | 8  |

## Table A-4Final Project Evaluation Results and First-Tier List (cont. 2)

| TIP ID      | Municipality   | Proponent  | Project Name  | Project Cost | Design Status | Year of PRC Approval | Earliest FFY of Advertising for Construction Contract <sup>a</sup> | MAPC Subregion <sup>b</sup> | MAPC Community Type <sup>c</sup> | MassDOT Highway District<br>CTPS Study | Location-Specific LRTP-Identified Need <sup>d</sup> | Relationship to National Highway System | Initial Total Score (134 possible points) | Revised Total Score (134 possible points) | Safety Score (30 possible points) | System Preservation Score (29 possible points) | Capacity Management/Mobility Score (29 possible points) | Clean Air/Sustainable Communities Score (16 possible points) | Transportation Equity Score (12 possible points) | Economic Vitality Score (18 possible points) |
|-------------|----------------|------------|---|--------------|---------------|----------------------|--|-----------------------------|----------------------------------|--|---|---|---|---|-----------------------------------|--|---|--|--|--|
| 602310      | Danvers        | Danvers    | Reconstruction of Collins St, from Sylvan St to Centre and Holten Sts                           | \$5,183,121  | 75% Approved  | 1997                 | 2024   | NSTF                        | MS                               | 4                                      |   |   | 44  | 44  | 8                                 | 12   | 12  | 5  | 2  | 5  |
| 608045      | Milford        | MassDOT    | Rehabilitation on Route 16, from Route 109 to Beaver St   | \$2,700,000  | PRC Approved  | 2014                 | 2024   | SWAP                        | RUC                              | 3                                      |   | Partially<br>on NHS                     | 43  | 43  | 20                                | 7  | 9   | -1   | 3  | 5  |
| 609054*     | Littleton      | Littleton  | Reconstruction of Foster St   | \$3,522,546  | PRC Approved  |                      | 2024   | MAGIC                       | DS                               | 3                                      |   |   | 37  | 38  | 12                                | 3  | 11  | 5  |  | 6  |
| Intersectio | on Improvement | ts         |   |              |               |                      |  |                             |                                  |  |   |   |   |   |                                   |  |   |  |  |  |
| 609253*     | Wilmington     | Wilmington | Intersection Improvements at Lowell St (Route 129) and Woburn St                                | \$3,400,000  | PRC Approved  | 2018                 | 2024   | NSPC                        | MS                               | 4 X                                    | CMM   | On NHS                                  | 49  | 53  | 13                                | 12   | 16  | 9  | 1  | 2  |
| 608889*     | Framingham     | Framingham | 5 5   | \$1,680,000  | 25% Submitted | 2017                 | 2022   | MWRC                        | RUC                              | 3                                      |   |   | 26  | 41  | 9                                 | 10   | 7   | 9  | 2  | 4  |
| 609254*     | Lynn           | Lynn       | Traffic and Safety Improvements at Two Locations on<br>Broadway                                 | \$5,870,300  | PRC Approved  | 2018                 | 2024   | ICC                         | RUC                              | 4                                      |   |   | 34  | 39  | 13                                | 13   | 7   | 2  | 1  | 3  |
| 608436*     | Ashland        | Ashland    | Rehabilitation and Rail Crossing Improvements on Cherry<br>St                                   | \$990,000    | PRC Approved  | 2017                 | 2024   | MWRC                        | MS                               | 3                                      |   |   | 38  | 38  | 12                                | 10   | 5   | 2  | 1  | 8  |
| 604231      | Marlborough    | MassDOT    | Intersection and Signal Improvements on Route 20 (East<br>Main St/Boston Post Rd) at Concord Rd | \$1,706,600  | 25% Submitted | 2007                 | 2024   | MWRC                        | RUC                              | 3 X                                    | <u> </u>  | Partially<br>on NHS                     | 35  | 35  | 5                                 | 6  | 8   | 6  | 3  | 7  |
| Major Infra |                |            |   |              |               |                      |  |                             |                                  |  |   |   |   |   |                                   |  |   |  |  |  |
| 607981      | Somerville     | Somerville | McGrath Boulevard Project   | \$82,500,000 | PRC Approved  | No Date              | 2026-30  | ICC                         | IC                               | 4                                      |   | On NHS                                  | 74  | 74  | 15                                | 12   | 19  | 6  | 10   | 12   |
| 609246*     | Lynn           | Lynn       | Reconstruction of Western Ave (Route 107)   | \$36,205,000 | PRC Approved  | 2018                 | n/a  | ICC                         | RUC                              | 4                                      | Safety  | On NHS                                  | 64  | 70  | 17                                | 16   | 14  | 9  | 10   | 4  |

Table A-4 Final Project Evaluation Results and First-Tier List (cont. 3)

| TIP ID | Municipality        | Proponent | Project Name  | Project Cost  | Design Status  | Year of PRC Approval | Earliest FFY of Advertising for Construction Contract <sup>a</sup> | MAPC Subregion <sup>b</sup> | MAPC Community Type <sup>c</sup> | MassDOT Highway District | CTPS Study | Location-Specific LRTP-Identified Need <sup>d</sup> | Relationship to National Highway System | Initial Total Score (134 possible points) | Revised Total Score (134 possible points) | Safety Score (30 possible points) | System Preservation Score (29 possible points) |    | Clean Air/Sustainable Communities Score (16 possible points) | Transportation Equity Score (12 possible points) | Economic Vitality Score (18 possible points) |
|--------|---------------------|-----------|---|---------------|----------------|----------------------|--|-----------------------------|----------------------------------|--------------------------|------------|---|---|---|---|-----------------------------------|--|----|--|--|--|
| 608449 | Boston              | Boston    | Improvements along Commonwealth Ave (Route 30), from<br>Alcorn St to Warren/Kelton Sts (Phases 3 and 4)     | \$31,036,006  | 25% Submitted  | 2016                 | n/a  | ICC                         | IC                               | 6                        |            |   | On NHS                                  | 64  | 64  | 14                                | 12   | н  | 8  | 8  | 11   |
| 605313 | Natick              | Natick    | Bridge Replacement, Route 27 (North Main St)<br>over Route 9 (Worcester St) and Interchange<br>Improvements | \$25,897,370  | 25% Submitted  | 2011                 | 2024   | MWRC                        | MS                               | 3                        |            |   | On NHS                                  | 60  | 60  | 20                                | 19   | 10 | 4  | 1  | 6  |
| 87790  | Canton,<br>Westwood | MassDOT   | Interchange Improvements at I-95 / I-93 / University Ave /<br>I-95 Widening                                 | \$202,205,994 | 25% Submitted  | 2011                 | n/a  | TRIC                        | MS                               | 6                        |            | СММ   | On NHS                                  | 48  | 48  | 18                                | 6  | 17 | -1   | I  | 7  |
| 601513 | Saugus              | Saugus    | Interchange Reconstruction at Walnut St and Route I<br>(Phase II)   | \$19,581,123  | 75% Submitted  | 1995                 | n/a  | ICC                         | MS                               | 4                        |            |   | On NHS                                  | 43  | 43  | П                                 | 11   | 9  | 6  | 2  | 4  |
| 604638 | Danvers,<br>Peabody | MassDOT   | Mainline Improvements on Route 128 (Phase II)   | \$24,031,419  | 100% Submitted | 2005                 | n/a  | NSTF                        | RUC                              | 4                        |            |   | On NHS                                  | 36  | 36  | 14                                | 8  | 5  | 3  | 3  | 3  |

\* Projects evaluated for the first time in FFY 2019. All other projects were re-evaluated in FFY 2019 with updated data and project information, where available.

a The major infrastructure projects in bold are programmed in the Long-Range Transportation Plan, Charting Progress to 2040. The other major infrastructure projects would have to be programmed in the LRTP before being programmed in the TIP. b MAPC subregions: ICC = Inner Core Committee. MAGIC = Minuteman Advisory Group on Interlocal Coordination. MWRC = North Suburban Planning Council. NSTF = North Shore Task Force. SSC = South Shore Coalition. SWAP = South West Advisory Planning Committee.TRIC = Three Rivers Interlocal Council.

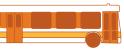
c MAPC community types: DS = developing suburb. IC = inner core; MS = maturing suburb. RUC = regional urban center.

d MPO staff noted whether a project may address an identified LRTP capacity management and/or mobility (CMM) need by comparing project locations to top priority bottleneck locations analyzed for the draft Destination 2040 Needs Assessment. Staff noted whether a project may address an identified LRTP safety need by comparing project locations to top all-mode, bicycle, pedestrian, or truck crash cluster locations analyzed for the draft Destination 2040 Needs Assessment

d MPO staff noted whether a project may address an identified LRTP capacity management and/or mobility (CMM) need by comparing project locations to top priority bottleneck locations analyzed for the draft Destination 2040 Needs Assessment. Staff noted whether a project may address an identified LRTP safety need by comparing project locations to top all-mode, bicycle, pedestrian, or truck crash cluster locations analyzed for the draft Destination 2040 Needs Assessment.

Other abbreviations: CTPS = Central Transportation Planning Staff. DCR = Department of Conservation and Recreation. LRTP = Long-Range Transportation Plan. MAPC = Metropolitan Area Planning Council. MassDOT = Massachusetts Department of Transportation. PRC = MassDOT Project Review Committee..





FFY 2020 Transportation Improvement Program