

# OLD COLONY JOINT TRANSPORTATION COMMITTEE

*Advising the Old Colony Metropolitan Planning Organization (MPO)  
and the Old Colony Planning Council (OCPC)*

C/o Old Colony Planning Council, 70 School Street, Brockton, MA 02301

Phone: 508-583-1833 / [www.ocpcrpa.org](http://www.ocpcrpa.org) / [@OldColonyPC](https://twitter.com/OldColonyPC)



Thursday, June 3, 2021, 12:00 P.M. to 1:00 P.M.

Held Virtually via Zoom due to the COVID-19 State of Emergency in Massachusetts

Join Zoom Virtual Meeting

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Meeting ID: 864 0620 0269

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Passcode: 734734

## AGENDA

1. Call to Order and Introductions
2. Public Comments
3. Minutes of May 6, 2021 Meeting
4. Communications
5. Reports
  - A. Brockton Area Regional Transit Authority (BAT)
    - Disadvantaged Business Enterprise (DBE) Goal
  - B. Greater Attleboro-Taunton Regional Transit Authority (GATRA)
  - C. South Coast Rail (SCR) Project
6. Old Business
  - A. FFY 2021-2025 Transportation Improvement Program (TIP) Implementation
7. New Business
  - A. Election of Old Colony JTC Officers for 2021-2022 Term
    - Announcement of Officer Nominations and Election
  - B. Draft FFY 2022 Old Colony Unified Planning Work Program (UPWP)
  - C. FFY 2021 UPWP Road Safety Audits at Multiple Locations
    - Project Status and Update
  - D. Regional Traffic Volumes and Commuter Parking Trends During Pandemic and Recovery
8. Other Business
  - A. Community Local Technical Assistance Studies
  - B. Staff Reviews on ENFs, EIRs and NPCs
  - C. Regional Concerns and Local Community Transportation Issues
9. Adjournment

The Old Colony MPO fully complies with Title VI of the Civil Rights Act of 1964 and related statutes and regulations in all programs and activities. The Old Colony MPO operates without regard to race, color, or national origin (including limited English proficiency), age, sex, disability, ancestry, ethnicity, gender, gender identity or expression, sexual orientation, religion, creed, veteran's status, or background. Any person who believes that they or any specific class of persons to be subject to discrimination prohibited by Title VI may by themselves or by a representative file a written complaint with the Old Colony MPO. Complaints are to be filed no later than 180 days from the date of the alleged discrimination. This meeting is accessible to people with disabilities and those with limited English proficiency. Accessibility accommodations and language services will be provided free of charge, upon request, as available. Please contact Mary Waldron at 508-583-1833 Extension 202 for more information.

- If this information is needed in another language, please contact Mary Waldron at 508-583-1833 Extension 202.
- Se esta informação é necessária em outro idioma, entre em contato com Mary Waldron em 508-583-1833 Ramal 202.
- Si se necesita esta información en otro idioma, por favor póngase en contacto con Mary Waldron al 508-583-1833 extensión 202.
- Si yo bezwen enfòmasyon sa a nan yon lòt lang, tanpri kontakte Mary Waldron nan 508-583-1833 Ekstansyon 202.

The public discussion of the Transportation Improvement Program (TIP) at Old Colony JTC, Old Colony MPO, and transportation meetings satisfies the Program of Projects (POP) public hearing requirements of the Federal Transit Administration (FTA).

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 1  
Call to Order and Introductions

**Summary**

Call to order, Introductions, and Accessibility Statement and Title VI Nondiscrimination Statement.

**Accessibility Statement and Title VI Nondiscrimination Statement**

To be read by the Chair at the start of each meeting:

- “This meeting is accessible to people with disabilities. Microphones or telephones will be used by all speakers. Large- print materials are available upon advance request. If you would like either of these accommodations, please contact Mary Waldron at 508-583-1833 Extension 202.”
- “The Notice of Nondiscrimination Rights and Protections to Beneficiaries with regard to the Federal “Title VI/ Nondiscrimination” Protections and the State Nondiscrimination Protections is posted in this meeting room and is available on the Old Colony Planning Council Website. Please contact Mary Waldron at 508-583-1833 Extension 202 for more information. Thank you.”

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 2  
Public Comments

**Summary**

Public comments.

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 3  
Minutes of May 6, 2021 Meeting

**Summary**

Old Colony JTC to consider approval of May 6, 2021 Old Colony JTC Meeting Minutes.

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 4  
Communications

**Summary**

**MassDOT State Transportation Improvement Program Update**

The Massachusetts Department of Transportation (MassDOT) has announced the availability of the draft project listings for the proposed State Transportation Improvement Program (STIP) for Federal Fiscal Years 2022 to 2026. These draft listings are a compilation of roadway, bridge, intermodal, and transit projects as programmed by the Commonwealth's ten Metropolitan Planning Organizations (MPOs), three Transportation Planning Organizations (TPOs), and statewide projects advanced by MassDOT. They are available for review at <https://www.mass.gov/service-details/state-transportation-improvement-program-stip>. If this information is needed in another language, please contact the MassDOT Title VI Strategist at 857-368-8882.

The comment period will begin on May 26, 2021 and end on June 15, 2021. Comments can be mailed to STIP Coordinator, MassDOT, Office of Transportation Planning, 10 Park Plaza Room 4150, Boston MA 02116, by fax to 857-368-0639, or by e-mail to [planning@dot.state.ma.us](mailto:planning@dot.state.ma.us).

## CIP Public Process Announcement

MassDOT is currently developing a one-year maintenance of effort Capital Investment Plan (CIP) that guides how we prioritize and fund local and statewide transportation projects, and we need your input. The CIP determines funding for new buses and trains, rail expansion, transit, paratransit, accessibility upgrades, roadway improvements, municipal projects, the MBTA and regional airports and transit authorities. You and your community's input can inform project design and helps MassDOT understand the level of community support for proposed projects, ensuring that MassDOT's investments align with the needs and priorities of all Massachusetts residents.

Your community's transportation priorities matter to MassDOT and there are several ways to participate and voice your opinions. All these methods can be accessed through [mass.gov/cip](https://mass.gov/cip)

Comments must be received by **June 7, 2021**. This year's CIP virtual public meeting dates:

- May 25th, 6:00 p.m. - Pioneer Valley/Berkshire/Franklin
- May 26th, 6:00 p.m. - Northern Middlesex/Merrimack Valley
- May 27th, 6:00 p.m. - Central Mass/Montachusett
- June 1st, 6:00 p.m. - Boston meeting
- June 2nd, 6:00 p.m. - SE Mass/Old Colony
- June 3rd, 6:00 p.m. - Cape/Nantucket/Martha's Vineyard

## **RAISE Discretionary Grants**

The U.S. Department of Transportation (DOT) has published a Notice of Funding Opportunity (NOFO) to apply for \$1 billion in Fiscal Year (FY) 2021 discretionary grant funding through the Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grants. RAISE, formerly known as BUILD and TIGER.

Projects for RAISE funding will be evaluated based on merit criteria that include safety, environmental sustainability, quality of life, economic competitiveness, state of good repair, innovation, and partnership. Within these criteria, the Department will prioritize projects that can demonstrate improvements to racial equity, reduce impacts of climate change and create good-paying jobs.

For this round of RAISE grants, the maximum grant award is \$25 million, and no more than \$100 million can be awarded to a single State, as specified in the appropriations act. Up to \$30 million will be awarded to planning grants, including at least \$10 million to Areas of Persistent Poverty. To provide technical assistance to prospective applicants, U.S. DOT is hosting a series of webinars during the FY 2021 RAISE grant application process. To register for the webinars, visit <https://www.transportation.gov/RAISEgrants/outreach>. The deadline to apply is July 12, 2021 at 5pm Eastern. For more information, please visit

<https://www.transportation.gov/RAISEgrants>



## **TransitMatters Report: All Day Frequent Service on Old Colony Lines Can Be Achieved for \$630 Million**

**BOSTON, MAY 18, 2021** - TransitMatters released its latest report detailing how the MBTA's commuter rail lines could be transformed into fast, frequent Regional Rail, this time focused on the Old Colony Lines - Greenbush, Kingston/Plymouth, and Middleborough/ Lakeville lines.

Speeds of 100 mph are attainable, allowing one-way trips to take 45 minutes or fewer, while today they take about an hour. In addition, vast increases in frequency are possible through double tracking the Dorchester bottleneck and Quincy Center station. Whereas each line today sees a train once every two hours at best, TransitMatters' recommendations make service every 30 minutes possible, a fourfold increase. Fixing the bottleneck will also make regular service to Cape Cod communities, subsuming the CapeFLYER service, possible, boosting tourism and allowing residents to travel to Boston by train year-round. Work on the bottleneck and Old Colony lines, along with electrification and new stations, brings the total investment to \$630 million.

For more information, please visit <http://transitmatters.org/regional-rail>



**massDOT**  
Massachusetts Department of Transportation



**Massachusetts Bay  
Transportation Authority**

## WHAT ARE YOUR TRANSPORTATION PRIORITIES?

The Massachusetts Department of Transportation (MassDOT) and the Massachusetts Bay Transit Authority (MBTA) are currently developing a one year maintenance of effort Capital Investment Plan (CIP), that guides how we prioritize and fund local and statewide transportation projects.

**Your input** can inform project design and helps MassDOT understand the level of community support for proposed projects, ensuring that MassDOT’s investments align with the needs and priorities of all Massachusetts residents.

There are several ways to participate at [MASS.gov/CIP](https://www.mass.gov/cip)

- Join us for a Virtual Public Meeting – see dates and links below.
- Send an email with your comments to: [MASSCIP@STATE.MA.US](mailto:MASSCIP@STATE.MA.US)
- Explore projects included in the CIP and provide comments online using our CIP Comment Tool.

Comments must be received by **June 7th, 2021**.

## VIRTUAL PUBLIC MEETINGS

Location	Date & Time	Location	Date & Time
Western Mass.	May 25, 2021 6:00 PM	Boston	June 1, 2021 6:00 PM
Northern Mass. & Merrimack Valley	May 26, 2021 6:00 PM	Southeastern Mass.	June 2, 2021 6:00 PM
Central Mass.	May 27, 2021 6:00 PM	Cape Cod & Islands	June 3, 2021 6:00 PM

CAN'T MAKE A MEETING? POST YOUR IDEAS AT [WWW.MASS.GOV/CIP](https://www.mass.gov/cip) OR EMAIL COMMENTS TO [MASSCIP@STATE.MA.US](mailto:MASSCIP@STATE.MA.US)

Virtual meetings will be accessible to those with limited English proficiency. Language services will be provided free of charge upon request, and as available. Requests should be submitted within ten days of the meeting at which services will be required, if at all possible. Presentation materials will be made available in multiple languages upon request. For more information or to request language services, please contact Patrick Nestor one week before the meeting at (617) 680-6092 or [patrick.nestor@state.ma.us](mailto:patrick.nestor@state.ma.us)

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 5A  
Brockton Area Transit Authority (BAT)

**Summary**

Brockton Area Transit to provide report.

June 3, 2021 Old Colony JTC Meeting

Agenda Item 5B

Greater Attleboro-Taunton Regional Transit Authority (GATRA)

**Summary**

Greater Attleboro-Taunton Regional Transit Authority to provide report.

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 5C  
South Coast Rail Project

**Summary**

The South Coast Rail (SCR) project will restore commuter rail service between Boston and southeastern Massachusetts by the end of 2023. Taunton, Fall River, and New Bedford are the only major cities within 50 miles of Boston that do not currently have commuter rail service to Boston. SCR will reconnect this region to jobs and generate economic development. Construction began in 2020.

South Coast Rail will be completed in two phases. Phase 1 will provide a one-seat ride by extending the existing Middleborough/Lakeville commuter rail line from Boston to Taunton, Fall River, and New Bedford. It will deliver service to the South Coast by late 2023.

2020 was a busy year for the SCR project with early action work being completed to prepare for construction and operation of the system. Early action items included demolitions of future station sites, culvert repairs/construction, grade crossing improvements, and railroad bridge reconstruction.

In May 2021, primary work on SCR included track work at the Middleborough Layover Yard, installation of track parallel to Richmond Road from Beechwood Drive to Forge Road in Assonet, continued tree clearing began from the East Taunton and Myricks Junction stations heading south along the railway. On the Fall River Secondary Main Line, a contractor is installing support for excavation along Pearce Street in Fall River, which resulted in a single lane closure.

The construction began the installation of steel sheeting for retaining walls in the railroad ROW near Collins Street in Fall River as well as in Berkley. The installation of soldier piles and precast panels for retaining walls in the vicinity of the Freetown station continued its progress. Additional work done included site preparation, drainage and utility installation, and material delivery at stations and layover sites along the railroad right-of-way from Middleborough to New Bedford and on the Fall River Secondary.

If anyone is interested in signing up for weekly updates on the South Coast Rail project, please click on the following link to enter an email address:

[https://public.govdelivery.com/accounts/MADOT/subscriber/new?topic\\_id=MADOT\\_30](https://public.govdelivery.com/accounts/MADOT/subscriber/new?topic_id=MADOT_30)

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 6A  
FFY 2021-2025 Transportation Improvement Program (TIP)  
Implementation

**Summary**

The Transportation Improvement Program projects programmed in Year 1 must be ready for advertisement within that year (design, engineering, permits, and approvals, etc. completed).

**FFY 2021 PROJECTS:**

- AVON - INTERSECTION IMPROVEMENTS AT HARRISON BOULEVARD AND POND STREET (608086)
  - Construction bids opened on March 2, 2021. Low bid was \$3,998,824.70 was submitted by George R. Cairns & Sons Inc. of Windham, NH.
  - Cost Estimate is \$4,969,007.
  
- EASTON - ROUTE 123 (DEPOT STREET) RECONSTRUCTION FROM NEWELL CIRCLE TO ROUTE 138 (607217)
  - Bids opened on January 12, 2021. Low bid was \$10,134,494.00 submitted by RJV Construction Corporation of Canton, MA.
  - Cost Estimate is \$10,502,923.

- STOUGHTON - IMPROVEMENTS AT RICHARD WILKINS ELEMENTARY SCHOOL (SRTS) (608829)
  - Project advertised for construction bids on May 29, 2021. Bid opening scheduled for July 7, 2021.
  - Design Public Hearing held June 17, 2020.
  - Cost Estimate is \$3,171,443 (Cost increased to \$4,650,151 via TIP Amendment 2).

<b>FFY 2022 PROJECTS:</b>
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- AVON & STOUGHTON - PAVEMENT PRESERVATION AND RELATED WORK ON ROUTE 24 (608496)
  - Plans, Specifications, and Estimate (PS&E) Resubmission 2 Package received by MassDOT (5/7/2021).
  - Cost Estimate is \$6,314,880.
  
- BROCKTON - INTERSECTION IMPROVEMENTS AND RELATED WORK AT CENTRE STREET (ROUTE 123), CARY STREET, AND LYMAN STREET (609410)
  - MassDOT comments on 25% Package provided to Design Engineer (10/19/2020).
  - Cost Estimate is \$3,232,320.



- PEMBROKE - REHABILITATION OF ROUTE 36 (CENTER STREET) FROM ROUTE 27 TO ROUTE 14 (600380)
  - Plans, Specifications, and Estimate (PS&E) Package received by MassDOT (02/08/2021).
  - Cost Estimate is \$10,088,920.

#### **FFY 2023 PROJECTS:**

- BROCKTON - ROUTE 123 (CENTRE STREET) AT PLYMOUTH STREET SIGNALIZATION AND GEOMETRIC IMPROVEMENTS (609052)
  - Project is in the preliminary design phase.
  - Cost Estimate is \$2,523,420.
  
- STOUGHTON - CORRIDOR IMPROVEMENTS ON ROUTE 138 (607403) AC PHASE 1 OF 2
  - 25% Resubmission 1 Package received by MassDOT (10/13/2020).
  - Cost Estimate for AC Phase 1 is \$5,244,574 (Total cost is \$13,351,414).
  
- STOUGHTON - INTERSECTION IMPROVEMENTS AND RELATED WORK AT CENTRAL STREET, CANTON STREET AND TOSCA DRIVE (608279)
  - 100% Package received by MassDOT (12/23/2020).
  - Cost Estimate is \$3,799,916.

## **FFY 2024 PROJECTS:**

- PLYMPTON - BRIDGE REPLACEMENT, WINNETUXET ROAD OVER WINNETUXET RIVER (609435)
  - Project is in the preliminary design phase.
  - Cost Estimate is \$2,220,987.
  
- STOUGHTON - CORRIDOR IMPROVEMENTS ON ROUTE 138 (607403) AC PHASE 2 OF 2
  - 25% Resubmission 1 Package received by MassDOT (10/13/2020).
  - Cost Estimate for AC Phase 2 is \$8,106,840 (Total cost is \$13,351,414).

## **FFY 2025 PROJECTS:**

- ABINGTON - INTERSECTION IMPROVEMENTS AT HANCOCK STREET AND CHESTNUT STREET (609440)
  - Project is in the preliminary design phase.
  - Cost Estimate is \$2,900,232.
  
- BROCKTON - INTERSECTION IMPROVEMENTS AT LYMAN STREET/GROVE STREET/SUMMER STREET & REPLACEMENT OF GROVE STREET BRIDGE, B-25-005, OVER SALISBURY PLAIN RIVER (607818)
  - 25% Resubmission 1 Package received by MassDOT (12/24/2019).
  - Cost Estimate is \$4,872,000.

- DUXBURY - SIGNAL INSTALLATION @ ROUTE 3 (NB & SB) RAMPS & ROUTE 3A (TREMONT STREET) (606002)
  - Project is in the preliminary design phase.
  - Cost Estimate is \$2,784,000.

## **CURRENTLY UNPROGRAMMED PROJECTS**

- ABINGTON & BROCKTON - PEDESTRIAN AND BICYCLE IMPROVEMENTS ON ROUTE 123 (609520)
  - Currently not programmed.
  - Project is in the preliminary design phase.
  - Cost Estimate is \$3,129,363.
- AVON - INTERSECTION IMPROVEMENTS AT ROUTE 28, SPRING STREET AND HARRISON BOULEVARD (611979)
  - Currently not programmed.
  - Project is in the preliminary design phase.
  - Cost Estimate is \$3,750,000.
- BROCKTON - INTERSECTION IMPROVEMENTS @ CRESCENT STREET (ROUTE 27)/ QUINCY STREET/ MASSASOIT BOULEVARD (606143)
  - Currently not programmed.

- 25% Package received by MassDOT (as of 05/04/2015).
- Cost Estimate is \$5,520,744.
  
- EAST BRIDGEWATER - INTERSECTION IMPROVEMENTS AT BEDFORD STREET (ROUTE 18), WEST STREET (ROUTE 106) AND EAST STREET (611968)
  - Currently not programmed.
  - Project is in the preliminary design phase.
  - Cost Estimate is \$3,500,000.
  
- EAST BRIDGEWATER - INTERSECTION IMPROVEMENTS AT HIGHLAND STREET AND NORTH BEDFORD STREET (ROUTE 18) (611976)
  - Currently not programmed.
  - Project is in the preliminary design phase.
  - Cost Estimate is \$3,500,000.
  
- EASTON - CORRIDOR IMPROVEMENTS ON ROUTE 138 INCLUDING INTERSECTION IMPROVEMENTS AT ROUTE 138 (WASHINGTON STREET) AND ELM STREET (608195)
  - Currently not programmed.
  - MassDOT comments on the 25% Package returned to the Design Engineer (as of 01/23/2019).
  - Cost Estimate is \$5,137,918.

- EASTON - RESURFACING AND RELATED WORK ON ROUTE 138 (ROOSEVELT CIRCLE TO STOUGHTON TOWN LINE) (608585)
  - Currently not programmed.
  - Project is in the preliminary design phase.
  - Cost Estimate is \$4,025,000.
  
- HANSON - CORRIDOR IMPROVEMENTS ON ROUTE 14 (MAQUAN STREET), FROM THE PEMBROKE T.L. TO INDIAN HEAD STREET AND RELATED WORK (608506)
  - Currently not programmed.
  - 25% Package received by MassDOT (as of 05/07/2020).
  - Project is in the preliminary design phase.
  - Cost Estimate is \$9,586,036.
  
- KINGSTON - BRIDGE REPLACEMENT, K-01-014, SMITHS LANE OVER ROUTE 3 (PILGRIM HIGHWAY) (608615)
  - Currently not programmed.
  - Project is in the preliminary design phase.
  - Cost Estimate is \$12,788,000.
  
- PEMBROKE - INTERSECTION IMPROVEMENTS AT WASHINGTON STREET AND SCHOOSSETT STREET (611978)
  - Currently not programmed.

- Project is in the preliminary design phase.
- Cost Estimate is \$2,500,000.
  
- STOUGHTON - INTERSECTION IMPROVEMENTS AT CANTON STREET (ROUTE 27), SCHOOL STREET AND SUMMER STREET (611981)
  - Currently not programmed.
  - Project is in the preliminary design phase.
  - Cost Estimate is \$2,300,000.
  
- STOUGHTON - RECONSTRUCTION OF TURNPIKE STREET (607214)
  - Currently not programmed.
  - Project is in the preliminary design phase.
  - Cost Estimate is \$25,461,705.

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 7A  
Election of Old Colony JTC Officers for 2021-2022 Term

**Summary**

Report on nominations from the Old Colony JTC Officer Nominating Committee and election of Old Colony JTC Officers for the 2021-2022 Term.

June 3, 2021 Old Colony JTC Meeting

Agenda Item 7B

Draft FFY 2022

Old Colony Unified Planning Work Program (UPWP)

## **Summary**

The Draft FFY 2022 Old Colony Unified Planning Work Program (UPWP) was released by the Old Colony MPO on April 20, 2021, to a 21-day public review and comment period.

The UPWP provides an overview and budgetary information for the transportation planning tasks and activities, which are to be conducted in the region during the upcoming federal fiscal year.

### **TASK 1000: MANAGEMENT AND SUPPORT OF PLANNING PROCESS AND CERTIFICATION ACTIVITIES**

**1100 - 3C Program Support (\$60,000)**

**1200 - Unified Planning Work Program (UPWP) (\$14,000)**

**1300 - Public Participation Program (PPP) (\$61,000)**

**1400 - Transportation Improvement Program (TIP) (\$42,000)**

**1500 - Title VI and Environmental Justice (EJ) (\$44,000)**



**TASK 2000: DATA RECONNAISSANCE, ACQUISITION, AND ANALYSIS ACTIVITIES**

**2100 - Demographic and Land Use Surveillance (\$20,000)**

**2200 - Multi-Modal Transportation System Data Surveillance and System Monitoring (\$87,000)**

**2300 - System Planning Resource Activities (\$48,000)**

**2400 - Geographic Information System (GIS) (\$64,000)**

**2500 - Management Systems (Congestion, Pavement & Safety), and Travel Demand Modeling (\$96,000)**

**TASK 3000: SHORT RANGE AND LONG-RANGE TRANSPORTATION PLANNING ACTIVITIES**

**3100 - Regional Transportation Studies and Intermodal Planning (\$75,000)**

**3200 - Local Highway Transportation Technical Assistance (\$85,000)**

**3300 - Road Safety Audits (RSAs) at Multiple Locations (\$88,201)**

**3400 - High Priority Corridor Study Screening Assessment (\$55,000)**

**3500 - Freight Planning and Action Plan (\$60,000)**

**3600 - Performance Based Planning (\$20,000)**

**TASK 4000: OTHER TRANSPORTATION TECHNICAL ACTIVITIES**

**4100 - Transit Technical Assistance, and Seniors and Individuals with Disabilities Support (\$40,000)**

**4200 - BAT Planning and Technical Studies (\$50,000)**

## Geographic Distribution of Local Technical Assistance UPWP Funded Studies (Elements 2200 and 3200) - FFYs 2015-2020

					UPWP Task 2200		UPWP Task 2200		UPWP Task 3200	
					Automatic Traffic Counter Recorder (ATR) Locations	Turning Movement Count (TMC) Locations	Local Technical Assistance (LTA) Studies			
Community	2010 Population	All Minority (Including White Hispanic) Population	Percent Title VI Minority	Median Household Income, ACS 2019 5-Year	Number of ATR Counts FFYs 2015-2020	Percentage of ATR Counts FFYs 2015-2020	Number of TMCs FFYs 2015-2020	Percentage of TMCs FFYs 2015-2020	Number of LTA Studies FFYs 2015-2020	Percentage of LTA Studies FFYs 2015-2020
Brockton	93,810	53,542	57%	\$58,469	145	22.4%	80	29.3%	10	11.2%
Stoughton	26,962	5,822	22%	\$83,519	36	5.6%	6	2.2%	9	10.1%
Avon	4,356	741	17%	\$85,200	21	3.3%	3	1.1%	3	3.4%
Bridgewater	26,563	2,941	11%	\$95,675	23	3.6%	6	2.2%	1	1.1%
Easton	23,112	2,327	10%	\$112,268	45	7.0%	5	1.8%	8	9.0%
Abington	15,985	1,368	9%	\$99,381	63	9.8%	19	7.0%	6	6.7%
Plymouth	56,468	4,230	7%	\$90,279	76	11.8%	27	9.9%	16	18.0%
East Bridgewater	13,794	790	6%	\$90,528	15	2.3%	10	3.7%	1	1.1%
West Bridgewater	6,916	440	6%	\$97,404	30	4.6%	7	2.6%	4	4.5%
Whitman	14,489	886	6%	\$86,570	20	3.1%	8	2.9%	7	7.9%
Kingston	12,629	598	5%	\$96,104	29	4.5%	20	7.3%	3	3.4%
Halifax	7,518	282	4%	\$92,774	14	2.2%	10	3.7%	2	2.2%
Duxbury	15,059	560	4%	\$128,173	57	8.8%	22	8.1%	7	7.9%
Pembroke	17,837	699	4%	\$103,905	14	2.2%	13	4.8%	5	5.6%
Plympton	2,820	112	4%	\$94,167	14	2.2%	2	0.7%	1	1.1%
Hanover	13,879	579	4%	\$127,981	34	5.3%	32	11.7%	3	3.4%
Hanson	10,209	424	4%	\$96,693	10	1.5%	3	1.1%	3	3.4%
	<b>362,406</b>	<b>76,341</b>	<b>21%</b>	<b>Totals:</b>	<b>646</b>	<b>100.0%</b>	<b>273</b>	<b>100.0%</b>	<b>89</b>	<b>100.0%</b>

Analysis is through FFY 2020, as FFY 2021 is currently underway.

# **DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)**

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**FOR REVIEW PUBLIC REVIEW AND COMMENT  
FROM MAY 18, 2021 to JUNE 11, 2021**

**PREPARED UNDER MASSDOT CONTRACT 112307  
OLD COLONY PLANNING COUNCIL  
70 SCHOOL STREET, BROCKTON, MA 02301**

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

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# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## DISCLAIMER

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The views and opinions of the Old Colony Planning Council expressed herein do not necessarily state or reflect those of the U. S. Department of Transportation.

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Old Colony Planning Council  
Title VI/ Nondiscrimination Coordinator  
Mary Waldron  
70 School Street  
Brockton, MA 02301  
508-583-1833 Extension 202  
[mwaldron@ocpcrpa.org](mailto:mwaldron@ocpcrpa.org)

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Title VI Specialist  
MassDOT, Office of Diversity and Civil Rights  
10 Park Plaza  
Boston, MA 02116  
857-368-8580  
TTY: 857-368-0603  
[MASSDOT.CivilRights@state.ma.us](mailto:MASSDOT.CivilRights@state.ma.us)

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One Ashburton Place, 6th Floor  
Boston, MA 02109  
617-994-6000  
TTY: 617-994-6196

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Si necesita esta información en otro idioma, por favor contacte al coordinador de MPO del Título VI al 508-583-1833 ext. 202.

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Caso estas informações sejam necessárias em outro idioma, por favor, contate o Coordenador de Título VI da MPO pelo telefone 508-583-1833, Ramal 202

### **Chinese Simple**

如果需要使用其它□ □ □ □ □ □ , □ □ □ Old Colony大都会□ □ □ □ (MPO) 《民□ □ □ 》  
□ □ □ □ □ □ , □ □ 508- 583-1833, □ 202。

### **Chinese Traditional**

如果需要使用其他語言瞭解資訊, 請聯繫Old Colony大都會規劃組織 (MPO) 《民權法案》  
第六章協調員, 電話508- 583-1833, 轉202。

### **Vietnamese**

Nếu quý vị cần thông tin này bằng tiếng khác, vui lòng liên hệ Điều phối viên Luật VI của MPO theo số điện thoại 508- 583-1833, số máy nhánh 202.

### **Haitian Creole**

Si yon moun bezwen enfòmasyon sa a nan yon lòt lang, tanpri kontakte Koòdonatè a Title VI MPO nan 508-583-1833 ext. 202.

### **French Creole**

Si yon moun vle genyen enfòmasyon sa yo nan yon lòt lang, tanpri kontakte Kowòdinatè MPO Title VI la nan nimewo 508-583-1833, ekstansyon 202.

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Если Вам необходима данная информация на любом другом языке, пожалуйста, свяжитесь с Координатором Титула VI в МРО по тел: 508-583-1833, добавочный 202.

### **French**

Si vous avez besoin d'obtenir une copie de la présente dans une autre langue, veuillez contacter le coordinateur du Titre VI de MPO en composant le 508-583-1833, poste 202.

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Se ha bisogno di ricevere queste informazioni in un'altra lingua si prega di contattare il coordinatore MPO del Titolo VI al 508- 583-1833 interno 202

**Mon-Khmer, Cambodian**

ប្រសិនបើលោក-អ្នកត្រូវការបកប្រែពីភាសានេះ សូមទាក់ទងអ្នកសម្របសម្រួលជំពូកទី6 របស់ MPO តាមរយៈលេខទូរស័ព្ទ **508-583-1833** រួចភ្ជាប់ទៅលេខ **202**។

**Arabic**

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Updated December 2019  
Old Colony Planning Council



# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## 1. INTRODUCTION

The Old Colony Metropolitan Planning Organization (MPO) conducts and implements a federally certified, continuing, cooperative, and comprehensive transportation planning process (3C) that results in plans, programs, and projects that encompass all transportation modes and that support the region's vision and goals that are articulated in the Old Colony Long Range Transportation Plan (LRTP). The Old Colony MPO plans for the movement of both people and goods within the region by all modes of travel, including highways, rail, public transportation, bicycles, and foot, and plans for the connections linking these modes.

The FFY 2022 Old Colony Unified Planning Work Program (UPWP) describes and provides budgetary information for the transportation planning tasks and activities, which are to be conducted in the region during the federal fiscal year. The UPWP is prepared and endorsed annually by the Old Colony MPO, prior to the start of the planning program. The Old Colony Planning Council (OCPC) has the responsibility of preparing the UPWP and implementing the tasks contained here within.

The FFY 2022 Old Colony UPWP describes the planning to be undertaken by the Old Colony MPO. Transportation planning activities are described as procedures under specific tasks. For each task, the anticipated accomplishment or product is provided. For each task, budget, and sources of funding are also provided. For management convenience, similar tasks are grouped into the following tasks:

- Task 1000 - Management and Support of Planning Process and Certification Activities
- Task 2000 - Data Reconnaissance, Acquisition, and Analysis Activities
- Task 3000 - Short Range and Long-Range Transportation Planning Activities
- Task 4000 - Other Transportation Technical Activities

The Old Colony UPWP is a planning and budgeting tool that is used by Brockton Area Transit (BAT), Federal Highway Administration (FHWA), Federal Transit Administration (FTA), Massachusetts Department of Transportation (MassDOT), and Old Colony Planning Council, as the Scope of Services for the contracting for planning services, and may be amended, and/ or administratively modified during the program year with approval of the Old Colony MPO. All relevant tasks will be performed with input from MassDOT District 5.

Continued growth in population, employment, and housing, and the associated increases in travel demand continue to place pressure on the transportation system in the Old Colony Region and beyond. The Old Colony Long Range Regional Transportation Plan represents the Old Colony MPO's effort to create a document and a process that will meet the challenges of preserving and expanding a truly intermodal transportation system. The LRTP includes goals and objectives, performance measures, analyses, and recommendations necessary to build and maintain an efficient, effective, and affordable regional transportation system. It is the intention of the Old Colony MPO to build on the current system, striving to make it comprehensive and multi-modal. The goal is a balanced range of well-connected transportation options that will optimize each travel mode: automobile, transit, rail, bicycle, and pedestrian, boat, air, and freight. The LRTP identifies the region's transportation project needs for the next twenty years. The principal way in which LRTP recommendations will be translated into action is through the Transportation Improvement Program (TIP). The TIP is a multimodal list of investments for which federal surface transportation funds will be used. The TIP covers a five-year period, is updated annually, and is based on reasonable estimates of funds available to the region.

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The FFY 2022 Old Colony UPWP continues to expand on several major tasks that are specifically targeted to implement provisions of several pieces of federal legislations, such as the Fixing America's Surface Transportation (FAST) Act, the Clean Air Act Amendments of 1990, and the Americans with Disabilities Act. The Old Colony MPO develops its programs with regional needs in mind, and in alignment with the FAST Act Planning Factors. The federal transportation act, the FAST Act identifies nine (9) Planning Factors that Metropolitan Planning Organizations, such as the Old Colony MPO, must consider in their Unified Planning Work Programs. During the development of the LRTP, goals and objectives were developed to guide the region's transportation planning activities through the near future, as were the performance measures that work towards achieving these goals and objectives. Planning staff collaborated with stakeholders to develop realistic and achievable targets and performance measures for each individual objective. The Old Colony MPO will continue to collaborate with its planning partners and refine the development of targets and performance measures for objectives, as they are applicable. Additionally, planning staff will continue to self-evaluate on progress towards all objectives and report to its planning partners and to the public as appropriate. The following is a listing of the national planning factors with information provided on the related 2020 LRTP objectives and performance measures.

### **1.1 FAST Act, National Planning Factors, and Performance Based Planning**

The Fixing America's Surface Transportation Act legislation requires MPOs to implement a continuing, cooperative, and comprehensive performance-based multimodal transportation planning process. To meet this requirement, the Old Colony MPO develops the LRTP, TIP, and UPWP that facilitate the safe and efficient movement of safe and efficient management, operation, and development of surface transportation systems that will serve the mobility needs of people and freight (including accessible pedestrian walkways, bicycle transportation facilities, and intermodal facilities that support intercity transportation, including intercity bus facilities and commuter van pool providers) and that fosters economic growth and development within and between States and urbanized areas, and take into consideration resiliency needs while minimizing transportation-related fuel consumption and air pollution in all areas of the region.

The FAST Act continues to emphasize performance-based planning as an integral part of the metropolitan planning process: states are to develop performance goals, guided by the national goals, and then MPOs will work with state departments of transportation to develop MPO performance measures and targets, or adopt the statewide performance measures and targets. The TIP and UPWP integrates MassDOT's and the MPOs' performance measures and link transportation-investment decisions to progress toward achieving performance targets. The MPOs, MassDOT, and providers of public transportation jointly agree and have developed specific written provisions for cooperatively developing and sharing information related to transportation performance data, the selection of performance targets, the reporting of performance targets, the reporting of performance to be used in tracking progress towards attainment of critical outcomes for the MPO regions and the collection of data for the MassDOT Asset Management Plan.

The Old Colony MPO develops the TIP and the UPWP with due consideration of additional planning activities within the metropolitan area and utilizes a process that provides for the design and delivery of transportation services within the metropolitan planning area. The following is an overview of how the Long-Range Transportation Plan, the Transportation Improvement Program, and the Unified Planning Work Program reflect the national planning factors and performance-based planning:

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- **Safety Goals:** Achieve a significant reduction in traffic fatalities and serious injuries on all public roads; increase the safety of the transportation system for motorized and non-motorized users; ensure that the transportation system and its users are safe and secure; and review safety data, goals, objectives, and strategies to promote safety.

The Strategic Highway Safety Plan is incorporated into the Long-Range Transportation Plan. The Old Colony MPO applies specific criteria in the review of transportation strategies. These criteria are applied to estimated changes in safety. The primary goal of the LRTP is focused on safety and security: "Enhance Safety and Security." Safety is of such importance that it is recognized in its own chapter of the LRTP. Also included in the LRTP are the following goals: Increase the security of the transportation system for motorized and non-motorized users; examine both transit and highways networks and develop appropriate goals and strategies; review current plans for emergency planning and security elements; identify critical facilities and transportation systems; and define the roles of the various players in promoting security. One area of additional security planning that applies is that of traffic impacts due to extreme weather events such as impending hurricanes, and climate changes.

### Objectives:

- Reduce the number and rates of fatalities and serious injuries.
  - ▬ **Target and Performance Measure:** Conduct Road Safety Audits for a minimum of 3 high crash locations (MassDOT Top 5% Crash Clusters) per year, including minimum of 1 pedestrian/ walkability audit and one bicycle audit per year. In 2020, 4 locations were analyzed through Road Safety Audits.
  - ▬ **Target and Performance Measure:** Utilize HSIP fund for applicable projects each year and seek to program Statewide HSIP funds when available/ feasible for priority safety related projects.
- Provide and maintain safe fixed route service (e.g., Preventable Accidents per 100K miles).
  - ▬ **Target and Performance Measure:** Maintain fixed route service preventable accidents/ 100k miles below 2.00 (FY 2020 is 2.17 (from BAT Performance Dashboard)).
- Provide and maintain safe demand response service (Preventable accidents/ 100k miles).
  - ▬ **Target and Performance Measure:** Maintain demand response service preventable accidents/ 100k miles below 2.00 (FY 2020 is 1.05) (from BAT Performance Dashboard).
- Protect the viability of transportation infrastructure to accommodate emergency response and evacuations.
- Protect transportation system users from safety and security threats.
- Increase number of Safe Routes to School Partner Schools.
  - ▬ **Target and Performance Measure:** Increase percentage of SRTS Partner Schools to 85% in 10 years. Currently, 71% of eligible partner schools are partner schools.
- **Infrastructure Condition (Pavement, Bridge, and Transit) Goals:** Maintain a highway and transit infrastructure asset systems in a state of good repair; and emphasize the preservation of the existing transportation system. As part of the LRTP development, the MPO utilizes a pavement management system to develop costs and recommended repair for operation, preservation, and maintenance of the federal aid network.





MassDOT develops the Transportation Asset Management Plan (TAMP) to address pavement and bridge conditions on the National Highway System (NHS). The TAMP includes information on the NHS

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Inventory and Performance, Life Cycle Planning and Investment Strategy, Risk Management, and a Financial Plan.

Recipients of public transit funds, which can include states, local authorities, and public transportation operators, are required to establish performance targets for safety and state of good repair, develop transit asset management and transit safety plans, and to report on their progress toward achieving targets. Public transportation operators are directed to share information with MPOs and states so that all plans and performance reports are coordinated. The identified state of good repair performance measures for transit asset management regarding BAT include the following areas: equipment (Percentage of vehicles that have met or exceeded their Useful Life Benchmark (ULB)); rolling stock (Percentage of revenue vehicles within a particular asset class that have met or exceeded their ULB); and facilities (Percentage of facilities within an asset class rated below 3.0 on the FTA Transit Economic Requirements Model scale).






### Objectives:

- Provide and maintain fixed route and demand response state of good repair.
  -  **Target and Performance Measure:** Increase miles between breakdowns with passenger interruption on fixed route to 25,000 (goal) within 10 years (FY 2020 is 59,074) (from BAT Performance Dashboard).
  -  **Target and Performance Measure:** Increase miles between breakdowns with passenger interruption on demand response to 30,000 (goal) within 10 years (FY 2020 is 26,987) (from BAT Performance Dashboard).
- Improve bridge conditions.
  -  **Target and Performance Measure:** Maintain percentage of bridges categorized structurally deficient below 5% and increase overall average AASHTO rating (current 79) by 10 percent by 2040. Currently, eight percent of the bridges are categorized as structurally deficient.
- Improve pavement conditions and state of good repair.
  -  **Target and Performance Measure:** Achieve 50% of federal-aid eligible roadways in the region with a PCI-based pavement ranking of Good or Excellent within 10 years. In 2016, the pavement management system determined that 36% of the federal-aid eligible roadways were categorized as either Good or Excellent.
- **Congestion Reduction Goals:** Achieve a significant reduction in congestion on the NHS; and enhance the integration and mobility of the transportation system, across and between modes, for people and freight. The MPO applies specific criteria in the review of transportation strategies. These criteria are applied to improvements in multimodal accessibility. The LRTP supports these efforts through its goal: “Enhance and Protect Regional Mobility, and Foster Sustainable, Healthy, and Livable Communities.”

### Objectives

- Promote Mode Shift by increasing use of transit, carpool/ vanpool, and non-motorized transportation modes such as bicycling and walking.
  -  **Target and Performance Measure:** Achieve 15% of commuters in the Old Colony region using healthy transportation modes (transit, walking, bicycling, etc.) within 10 years (10.5% of surveyed commuters in Old Colony Region were using transit, walking, or bicycling in the 2011 Massachusetts Travel Survey).
- Reduce traffic congestion and improve level of service and access management.

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-  **Target and Performance Measure:** Monitor congestion levels on federal-aid eligible highway network annually and highlight corridors with volume to capacity (v/c) ratios of 0.8 or greater for targeted study and/or improvements.
- Maintain and improve transit system efficiency and capacity.
  -  **Target and Performance Measure:** Achieve average on-time ranking on fixed-route system of 98% by 2040 (from BAT Performance Dashboard). FY 2020 actual on-time performance is 98.06%.
- Increase automobile and bicycle parking capacity and usage at transit stations and commuter lots.
- Eliminate bottlenecks on limited access highways and on the freight network.
- Improve and expand human service coordination, mobility, and accessibility for all modes.
- Reduce number and size of gaps in the ADA accessible sidewalk network.
- Increase use of traffic signal priority (hold current green light) for transit vehicles and traffic signal pre-emption for emergency vehicles (override programmed phasing to provide approaching emergency vehicles a green light).
- Monitor utilization and congestion levels at commuter rail and park & ride parking facilities.
  -  **Target and Performance Measure:** Record utilization data twice annually and report data to MassDOT. In FFY 2020, utilization was recorded once and reported to MassDOT. The spring interval was not collected due to the COVID-19 Pandemic.
- Improve accessibility for all modes to all users.
  -  **Target and Performance Measure:** 50% of communities with Complete Streets policies within 10 years. Currently, 59% of communities have an approved Complete Street Policy.
  -  **Target and Performance Measure:** 50% of available Transportation Improvement Program funding allocated to projects that significantly improve bicycle and pedestrian mobility.

**System Reliability Goals:** Improve the efficiency of the surface transportation system; and promote efficient system operation and management. The Old Colony MPO supports Operation and Management Strategies (O and M) for both the transit and highway networks. The LRTP supports this planning factor through this performance measure: “Maintaining and preserving transit, highway, and bridge infrastructure.” As part of the LRTP development, the MPO utilizes a pavement management system to develop costs and recommended repair for operation, preservation, and maintenance of the federal aid network. The Old Colony MPO and BAT are coordinating to implement a performance-based planning process. The MPO integrates BAT’s Transit Asset Management (TAM) Plan into its planning process that prioritizes investments that meet regional performance targets for State of Good Repair. The identified state of good repair performance measures for transit asset management regarding BAT include the following areas: equipment (Percentage of vehicles that have met or exceeded their Useful Life Benchmark (ULB)); rolling stock (Percentage of revenue vehicles within a particular asset class that have met or exceeded their ULB); and facilities (Percentage of facilities within an asset class rated below 3.0 on the FTA Transit Economic Requirements Model scale). Additionally, the Old Colony TIP contains operation and maintenance costs for the federal aid network and BAT.

### Objectives

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- Provide and maintain fixed route reliability: Miles between breakdowns w/ passenger interruption.
    - ▢ **Target and Performance Measure:** Achieve average of 25,000 miles between breakdowns with passenger interruptions by 2040 (from BAT Performance Dashboard). FY 2020 actual is 59,074 miles between breakdowns with passenger interruptions.
  - Provide and maintain demand response reliability: Miles between breakdowns w/ passenger interruption.
    - ▢ **Target and Performance Measure:** Achieve average of 30,000 miles between breakdowns with passenger interruptions by 2040 (from BAT Performance Dashboard). FY 2020 actual is 26,987 miles between breakdowns with passenger interruptions.
  - Provide and maintain highway network travel time reliability.
  - Protect and strengthen transportation systems vulnerable to climate change through identification of at-risk transportation assets and development of protection measures for each category of asset.
- 
- **Freight Movement and Economic Vitality Goals:** Improve the nation’s freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development; and support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency. The MPO applies specific criteria in the review of transportation strategies. These criteria are applied to changes of delay and emissions. Reduction in traffic delay has a direct consequence on economic vitality both through the timely arrival of commuters and goods and reduction in fuel expenses and losses due to air pollution. The LRTP directly supports these efforts through the goal: “Promote Policies that Ensure Economic Vitality and Sustainability.” The MPO directly supports regional productivity through its economic development mission manifested in the Regional Policy Plan, including support of the federally approved Old Colony Comprehensive Economic Development Strategy priority projects.



### Objectives

- Reduce delay along identified freight routes.
  - Improve safety along freight routes.
  - Mitigate and improve key arterials (such as Route 106) and limited access highways (Routes 3 and 24) bottlenecks that inhibit efficient freight movement by truck.
  - Identify opportunities for promoting intermodal freight movement and uses for the Brockton CSX site.
  - Increase access to major employment centers.
  - Increase viaduct clearance to improve freight movement, emergency response, and reduce delay.
  - Plan and prioritize transportation investments that serve targeted development areas.
- 
- **Environmental Sustainability Goals:** Enhance the performance of the transportation system while protecting and enhancing the natural environment; protect and enhance the environment; promote energy conservation; improve the quality of life; and promote consistency between transportation improvements and State and local planned growth and economic development patterns. The LRTP and therefore the TIP includes a focus on addressing Climate Change. Where appropriate, TIP projects will include assessments of vulnerabilities and negative risks that climate change effects or extreme weather events pose to the region’s transportation infrastructure. These vulnerabilities and risks will





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be seriously considered when planning future improvements. Where appropriate, TIP projects include adaptation strategies that will enable the region to implement improvements appropriately. The reduction of greenhouse gas emissions (GHG) remains an important goal in addressing climate change.


### Objectives

- Minimize negative environmental impacts of the transportation system.
    -  **Target and Performance Measure:** Utilize Congestion Mitigation and Air Quality (CMAQ) Program funding for applicable projects.
  - Reduce greenhouse gas emissions and ground level ozone (NOx and VOCs) by all transportation modes.
    -  **Target and Performance Measure:** 50% of TIP projects reduce GHGs while also reducing negative impacts on the natural environment (such as improved storm water management or the addition of green space). In the FFY 2022-2026 TIP, 83.33% of the road projects, and 100% of the bus replacement projects had measurable reductions in GHGs.
  - Increase the usage of clean alternative fuels and recyclable material for new transportation infrastructure.
  - Increase coordination of transportation and housing programs to promote affordable housing near transit.
  - Develop and support transportation policies that support healthy lifestyles.
  - Support investments that clean up brownfields and avoid investments that increase pressure to develop greenfields.
  - Support livable communities and smart growth development patterns through the creation of a balanced multi-modal transportation system.
- 
- **Reduced Project Delivery Delay Goal:** 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 agency work practices.

### Objectives



- Continue to utilize transportation evaluation criteria in screening potential TIP projects.
  -  **Target and Performance Measure:** 100% of all potential projects undergo initial evaluation to determine if project is realistic, viable, and implementable.
- Enhance screening and evaluation of projects to determine Year 1 readiness for TIP.
  -  **Target and Performance Measure:** 100% of potential Year 1 TIP projects are screened for implementation readiness. In the FFY 2022-2026 TIP, 100% of Year 1 projects were screened for readiness.
  -  **Target and Performance Measure:** At least 80% of Year 1 TIP Projects are advertised. In the FFY 2021-2025 TIP, 100% of Year 1 projects are on schedule to be advertised.
- Continue to maintain annual participation at TIP Day with MassDOT.
  -  **Target and Performance Measure:** 100% attendance and participation at TIP Day. One hundred percent attendance and participation at TIP Day has occurred since its inception.

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 **Target and Performance Measure:** At 25% design stage, work with stakeholders on 100% of potential projects to determine Right-of-Way (ROW), environmental permitting, and other potential challenges to project development and implementation.

- Reduce time of transit contracting.
- **Resiliency and Reliability of the Transportation System Goals:** Improve the resiliency and reliability of the transportation system; reduce or mitigate stormwater impacts of surface transportation; and promote efficient system operation and management.

### Objectives

- Provide and maintain fixed route reliability: Miles between breakdowns w/ passenger interruption.
  -  **Target and Performance Measure:** Achieve average of 25,000 miles between breakdowns with passenger interruptions by 2040 (from BAT Performance Dashboard). FY 2020 actual is 59,074 miles between breakdowns with passenger interruptions.
- Provide and maintain demand response reliability: Miles between breakdowns w/ passenger interruption.
  -  **Target and Performance Measure:** Achieve average of 30,000 miles between breakdowns with passenger interruptions by 2040 (from BAT Performance Dashboard). FY 2020 actual is 26,987 miles between breakdowns with passenger interruptions.
- Provide and maintain highway network travel time reliability.
- Protect and strengthen transportation systems vulnerable to climate change through identification of at-risk transportation assets and development of protection measures for each category of asset.

The Old Colony MPO supports Operation and Management Strategies (O and M) for both the transit and highway networks. The LRTP supports this planning factor through this performance measure: “Maintaining and preserving transit, highway, and bridge infrastructure.” As part of the LRTP development, the MPO utilizes a pavement management system to develop costs and recommended repair for operation, preservation, and maintenance of the federal aid network. Additionally, the Old Colony TIP contains operation and maintenance costs for the federal aid network and BAT.

- **Travel and Tourism - Enhance Travel and Tourism Goals:** The Old Colony MPO is working on efforts to enhance travel and tourism through the LRTP and TIP. Opportunities to monitor, analyze, and develop recommendations will be undertaken.

One desired outcome of performance-based planning is constant quality improvement in project selection and delivery with respect to meeting national goals. If a particular project did not help the plan meet its stated goals, or was more effective than originally thought, that information can inform future decision-making. Done properly, performance-based planning not only improves project selection and prioritization, it also can make a compelling case for the Old Colony MPO’s LRTP and why the community is invested in its outcome.

The TIP is designed such that once implemented, it makes progress toward achieving the performance targets. Performance-based planning attempts to make the transportation investment decision-making



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process both informed and accountable. Projects and services implemented through the TIP will help to achieve the performance targets for Safety (PM1), Bridge and Pavement Condition (PM2), System Performance Measures (PM3), and Transit Asset Management (TAM) State of Good Repair (SGR).

### Safety (PM1)

The Old Colony MPO has chosen to adopt the statewide safety performance measure targets set by MassDOT for Calendar Year (CY) 2021. In setting these targets, MassDOT has followed FHWA guidelines by using statewide crash data and Highway Performance Monitoring System (HPMS) data for vehicle miles traveled (VMT) to calculate 5 year, rolling average trend lines for all FHWA-defined safety measures. For CY 2020 targets, four of the five safety measures - total number of fatalities, rate of fatalities per 100 million vehicle miles traveled, total number of incapacitating injuries, and rate of incapacitating injuries per 100 million VMT - were established by extending their trend lines into the 2016-2020 period. All four of these measures reflect a modest decrease in statewide trends. The fifth safety measure, the total number of combined incapacitating injuries and fatalities for non-motorized modes, is the only safety measure for which the statewide trend line depicts an increase. MassDOT's effort to increase non-motorized mode share throughout the Commonwealth has posed a challenge to simultaneously reducing non-motorized injuries and fatalities. Rather than adopt a target that depicts an increase in the trend line, MassDOT has elected to establish a target of non-motorized fatalities and injuries and for CY 2021 that remains constant from the rolling average for 2012–2016. In recent years, MassDOT and the Old Colony MPO have invested in "complete streets," bicycle and pedestrian infrastructure, intersection, and safety improvements in both the Capital Investment Plan (CIP) and Statewide Transportation Improvement Program (STIP) to address increasing mode share and to incorporate safety mitigation elements into projects. Moving forward, the Old Colony MPO, alongside MassDOT, is actively seeking to improve data collection and methodology for bicycle and pedestrian VMT counts and to continue analyzing crash clusters and crash counts that include both motorized and non-motorized modes to address safety issues at these locations.

In all safety categories, MassDOT has established a long-term target of "Toward Zero Deaths" through MassDOT's Performance Measures Tracker<sup>1</sup> and will be establishing safety targets for the MPO to consider for adoption each calendar year. While the MPO is not required by FHWA to report on annual safety performance targets, FHWA guidelines require MPOs to adopt MassDOT's annual targets or to establish their own each year.

The safety measures MassDOT has established for CY 2021, and that the Old Colony MPO has adopted, are as follows:

**Total Fatalities:** Per guidance from the Federal Highway Administration (FHWA), MassDOT's 2021 safety target setting process began with a trend line projection based on the most recent available data (up to 2018). The calendar year (CY) 2021 target of 339 was set to reflect an anticipated decrease in fatalities due to joint initiatives across MassDOT related to sustainable transportation; commitment to several FHWA Every Day Counts (EDC) initiatives (e.g., reducing rural roadway departures); and strategies and legislative proposals that were part of the 2018 Strategic Highway Safety Plan (SHSP), such as the primary seat belt and hands-free driving laws. The region number of fatalities continued its downward trend and decreased to 26 in 2019.

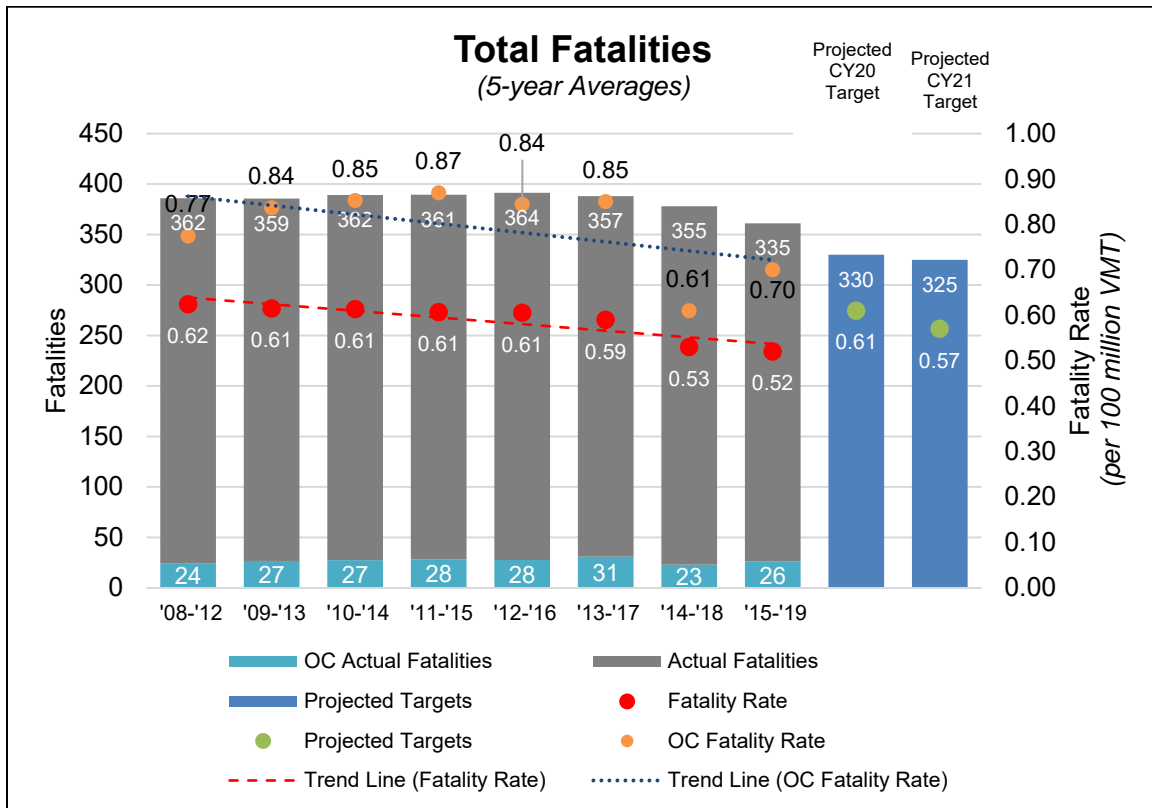
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<sup>1</sup> <https://www.mass.gov/lists/tracker-annual-performance-management-reports>

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**Fatality Rate:** The CY 2021 target of 0.55 fatalities per 100 million vehicle miles traveled (VMT) reflects an overall reduction from previous years. It should be noted that MassDOT’s long-term goal is to move towards zero deaths.

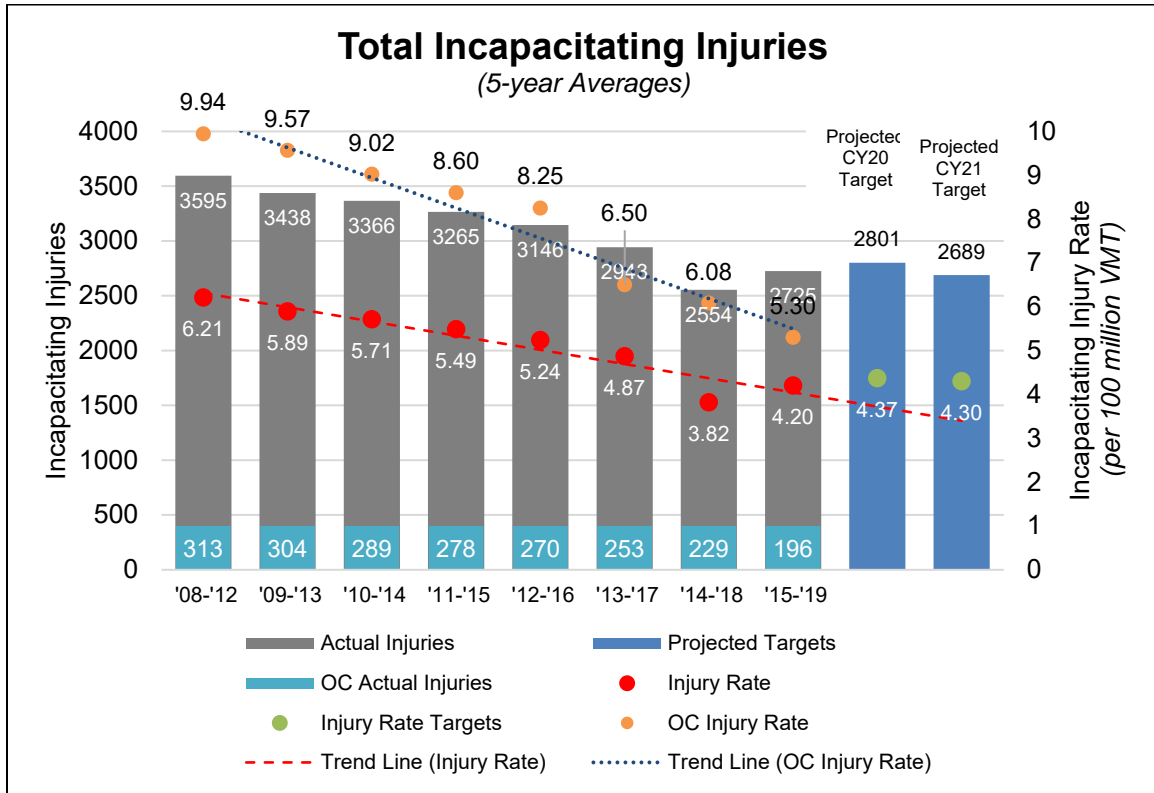
**Figure 1**  
**Total Fatalities and Fatality Rate**



**Total Serious Injuries:** It is anticipated that there will be an overall decrease in the number of serious injuries due to a continual downward trend line as well as the implementation of countermeasures that are being developed as part of the 2018 Strategic Highway Safety Plan (SHSP). The CY 2021 target of 2,580 was set to reflect this trend. The trend for the region is decreasing as well at 232 serious injuries in 2019. For this performance measure, it is important to note that on January 1st, 2019, Massachusetts moved from the term “incapacitating injuries” to “serious injuries,” per federal requirements.

**Serious Injuries Rate:** Similar to the fatality rate, it is anticipated that the downward trend line will result in a drop in the rate of serious injuries from 4.35 per 100 million VMT between 2016-2020 to 4.23 between 2017-2021.

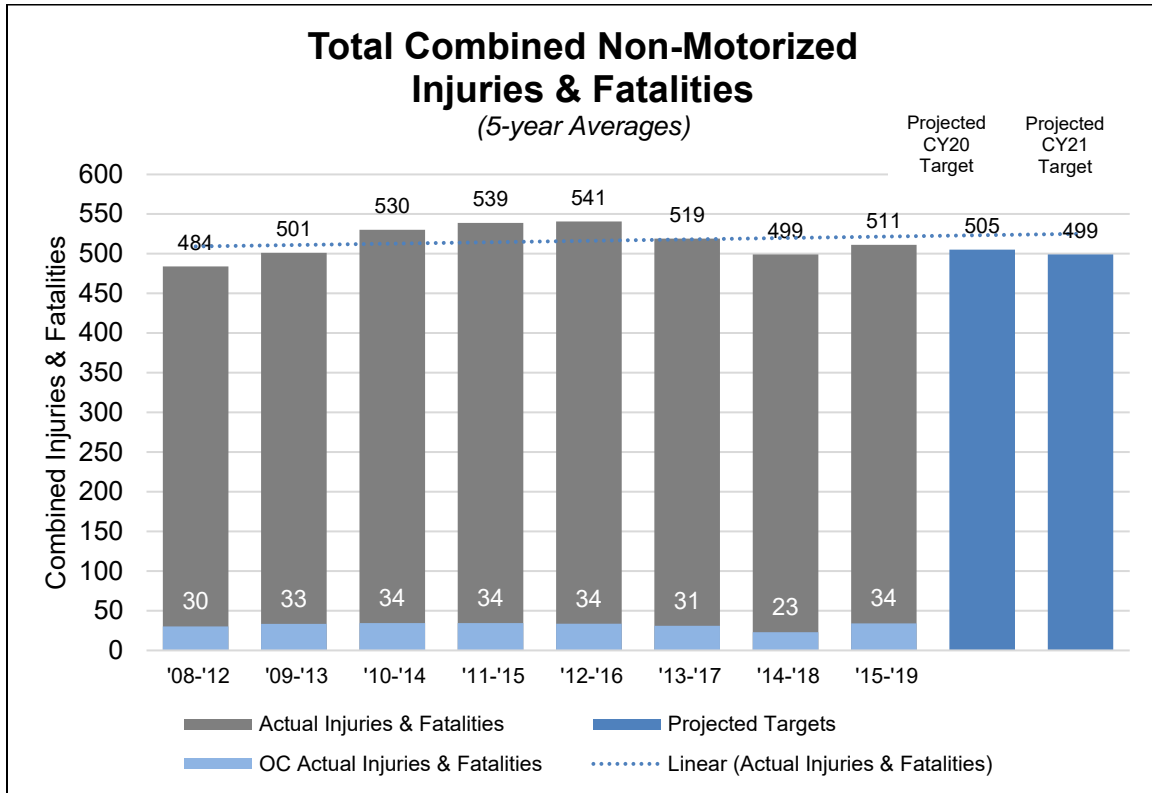
Figure 2  
Total Incapacitating Injuries and Incapacitating Injuries Rate



**Total Number of Non-Motorized Fatalities and Serious Injuries:** The most recent data for non-motorized fatalities and serious injuries indicates that the previously increasing trend decreased in 2017 and has continued to decrease since then. The region has decreased as well at 28 in 2019. The CY 2021 target has been set to reflect continued projected reductions in non-motorized fatalities and injuries due to several multi-disciplinary and multi-agency implementation strategies contained within the Statewide Bike Plan, Statewide Pedestrian Plan, and Strategic Highway Safety Plan.

It is important to note that in prior years, only bicyclist and pedestrian data were used to calculate this target. More recently, it was determined that this category would include other non-motorists. In addition to bicyclists and pedestrians, this category includes skaters and users of wheelchairs and other mobility devices. The historical data within the graph below includes these additional users.

**Figure 3**  
**Total Number of Non-Motorized Fatalities and Incapacitating Injuries**



The Old Colony MPO will continue to assist MassDOT in striving towards these targets through our project prioritization process and with our evaluation criteria. This criterion, that awards a higher score for safety improvements projects, will result in a measurable reduction in injuries and fatalities.

**System Preservation Performance (PM2)**

System preservation continues to be a priority for the Old Colony Region MPO because the region’s transportation infrastructure is aging. It is also important to improve the resiliency of the region’s transportation system to prepare for existing or future extreme conditions, such as sea level rise and flooding.

The Old Colony MPO has chosen to adopt the 2-year (2020) and 4-year (2022) statewide bridge and pavement performance measure targets set by MassDOT. MassDOT was required to adopt a statewide target by May 20, 2018, with MPOs either adopting the statewide target or establishing their own by November 2018. In setting these targets, MassDOT has followed FHWA guidelines by measuring bridges and pavement condition using the 9-point National Bridge Inventory Standards (NBIS); the International Roughness Index (IRI); the presence of pavement rutting; and the presence of pavement cracking. 2-year and 4-year targets were set for six individual performance measures: percent of bridges in good condition; percent of bridges in poor condition; percent of Interstate pavement in good condition; percent of Interstate pavement in poor condition; percent of non-Interstate pavement in good condition; and percent of non-Interstate pavement in poor condition. All the above performance measures are tracked in greater detail in MassDOT’s Transportation Asset Management Plan (TAMP).

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Targets for bridge-related performance measures were determined by identifying which bridge projects are programmed and projecting at what rate bridge conditions deteriorate. The bridge-related performance measures measure the percentage of deck area, rather than the total number of bridges.

Performance targets for pavement-related performance measures were based on a single year of data collection, and thus were set to remain steady under the guidance of FHWA. These measures are to be revisited at the 2-year mark (2020), once three years of data are available, for more informed target setting.

MassDOT continues to measure pavement quality and to set statewide short-term and long-term targets in the MassDOT Performance Management Tracker using the Pavement Serviceability Index (PSI), which differs from IRI. These measures and targets are used in conjunction with federal measures to inform program sizing and project selection. Table 1 provides the MassDOT Performance Measures and Targets for NHS Pavements, while Table 2 provides the MassDOT Performance Measures and Targets for NHS Bridges.

The Old Colony MPO will continue to assist MassDOT in striving towards these targets through our project prioritization process and with our evaluation criteria, which considers maintenance and infrastructure an important factor in the selection process.

**Table 1**  
**MassDOT Performance Measures and Targets for NHS Pavements**

<b>Interstate Pavement (FHWA Full Distress)</b>			
<b>Performance Measure</b>	<b>Current Condition (2017)</b>	<b>2-Year Target (2020)</b>	<b>4-Year Target (2022)</b>
% Interstate Pavement in Good Condition	74.2%	70%	70%
% Interstate Pavement in Poor Condition	0.1%	4%	4%
<b>Non-Interstate Pavement (FHWA IRI only)</b>			
<b>Performance Measure</b>	<b>Current Condition (2017)</b>	<b>2-Year Target (2020)</b>	<b>4-Year Target (2022)</b>
% Non-Interstate Pavement in Good Condition	32.9%	30%	30%
% Non-Interstate Pavement in Poor Condition	31.4%	30%	30%

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**Table 2**  
**MassDOT Performance Measures and Targets for NHS Bridges**

<b>Performance Measure</b>	<b>Current Condition (2017)</b>	<b>2-Year Target (2020)</b>	<b>4-Year Target (2022)</b>
% Bridges in Good Condition	15.22%	15%	16%
% Bridges in Poor Condition	12.37%	13%	12%

## **System Performance Measures (Congestion, Reliability, and Emissions) (PM3)**

Through its goal and objectives for capacity management and mobility, the MPO seeks to maximize the region’s existing transportation system so that both people and goods can move reliably and connect to key destinations. Portions of the Old Colony Region are densely developed, which creates challenges to making major changes to its transportation infrastructure to address access, reliability, and congestion mitigation needs. To determine how well the region’s roadways are performing with respect to mobility, the MPO applies performance measures that gauge the duration, extent, intensity, and reliability (or regularity) of the occurrence of congestion.

**Table 3**  
**MassDOT System Performance Measures and Targets**  
**Congestion, Reliability, and Emissions**

<b>Performance Measure</b>	<b>Current (2017)</b>	<b>2-Year Target (2020)</b>	<b>4-Year Target (2022)</b>
Level of Travel Time Reliability (LOTTR)	68% Interstate	68% Interstate	68% Interstate
	80% Non-Interstate	80% Non-Interstate	80% Non-Interstate
Truck Travel Time Reliability (TTTR)	1.85	1.85	1.85
Peak Hour Excessive Delay (PHED) (Boston UZA) (Annual hours per capita)	18.31	18.31	18.31
Non-SOV Travel	33.60% (2016)	34.82%	35.46%
Emissions Reductions	Baseline (FFY 2014-2017)	1,622 CO	TBD CO - Springfield
		497.9 Ozone	1.1 Ozone

Old Colony MPO staff analyzes congestion in the region using the Congestion Management Process (CMP). The CMP is, “a systematic process for managing congestion that provides information on transportation system performance and on alternative strategies for alleviating congestion and enhancing the mobility of persons and goods to levels that meet state and local needs.” The CMP includes consideration of the implementation of strategies that provide the most efficient and effective use of existing and future transportation facilities. This process allows for monitoring transportation systems for congestion,

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reviewing and endorsing plans by local communities that make up the region, and revising monitoring of strategies and overall plans to account for a dynamic management system. In both metropolitan and non-metropolitan areas, consideration needs to be given to strategies that reduce single occupancy vehicle (SOV) travel and improve existing transportation system efficiency. Documentation of the operational Congestion Management Process occurs during the Transportation Management Area (TMA) Certification Review conducted every four (4) years.

In general, the root causes of congestion may be summarized into two main categories:

- Traffic volume on a facility exceeds the available physical capacity of the facility - There is a limited amount of traffic that can be moved on a roadway for a given time, or only so many transit customers that can be accommodated by a given number of buses or trains. This is considered the physical capacity of the system. Bottlenecks occur at locations where the physical capacity is restricted, with flows from upstream sections (with higher capacities) being funneled into smaller downstream segments. When traffic flow breaks down to stop-and-go conditions, capacity is reduced. Bottlenecks can be very specific chokepoints in the system, such as a poorly functioning freeway-to-freeway interchange, or an entire highway corridor where a “system” of bottlenecks exists, such as a closely spaced series of interchanges with local streets.
- Traffic Incidents - In addition to the physical capacity, external events can have a major effect on traffic flow. These include traffic incidents such as crashes and vehicle breakdowns; work zones; inclement weather; special events; and poorly timed traffic signals. When these events occur, their main impact is to subtract physical capacity from the roadway. Events also may cause changes in traffic demand by causing travelers to rethink their trips.

The cost of congestion can be measured in dollars as well as time. There is a direct link between transportation investment, travel conditions (congestion and reliability), and economic productivity. Two key trends have a substantial impact on the total cost of moving freight:

- As congestion extends into the midday, which is typically the peak travel period for trucks, costs that are more direct will be incurred.
- Reliability - For trucks, the ability to secure delivery windows predictably will decrease and will add even more costs as firms struggle to optimize delivery schedules. This is especially a problem for truckers who must meet “just-in-time” delivery schedules set by shippers, manufacturers, and retailers.

The CMP is also designed to identify intersections and road segments that demonstrate congestion, excessive delays, and circulation problems. The CMP identifies these congested facilities through studies completed by OCPC and other agencies and organizations, and through the ongoing monitoring of facilities. Standard operating procedures have been adopted for data collection that allows the monitoring of intersections within the region specifically targeted due to congestion. The CMP identifies numerous congested intersections, based on a threshold of LOS “D” or less, within the Old Colony region.

In addition to the intersection locations, there are several community centers in the region including, Bridgewater Center (Central Square), Downtown Brockton, East Bridgewater Center, Stoughton Center, and West Bridgewater Center, that experience chronic congestion and circulation problems requiring ongoing efforts to improve traffic flow and access and reduce delays.

When making investments in the region’s transportation system, the Old Colony Region MPO seeks to invest in projects and programs that reduce greenhouse gases (GHGs) and other transportation related

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pollutants, and otherwise minimize negative environmental impacts. If climate change trends continue as projected, the conditions in the Old Colony Region will include a rise in sea level coupled with storm-induced flooding, and warmer temperatures that would affect the region's infrastructure, economy, human health, and natural resources. Massachusetts is responding to this challenge by taking action to reduce the GHGs produced in the state, including those generated by the transportation sector. To that end, Massachusetts passed its Global Warming Solutions Act (GWSA), which requires reductions of GHGs by 2020, and further reductions by 2050, relative to 1990 baseline conditions. To meet GWSA requirements, the MPO works with MassDOT and other stakeholders to anticipate the GHG impacts of projects included in the TIP.

### **Transit System Asset Condition Performance Measures and Targets**

Table 4 lists a set of federally required infrastructure condition performance measures for transit systems along with BAT's Performance Targets. These transit asset management (TAM) measures, which focus on a specific subset of all transit assets, were established in the FTA's TAM Rule. Brockton Area Transit presented this information along with supporting documentation to the Old Colony MPO in September 2020. The Old Colony MPO has adopted BAT's FY 2021 Brockton Area Transit Authority Transit Asset Management (TAM) State of Good Repair Targets in their entirety and as their own and for the Old Colony Region, in accordance with the certified 3C Transportation Planning Process.



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**Table 4  
Brockton Area Transit Authority Performance Measures and Targets**

<b>Performance Targets by Asset Category</b>						
<b>Category</b>	<b>Class</b>	<b>Metric</b>	<b>Performance Target for FY 2021</b>	<b>Total Number of Vehicles</b>	<b># of Vehicles that exceed ULB - FY 2020</b>	<b>% of Fleet that exceeds ULB - FY 2020</b>
Rolling Stock	Buses	X% of fleet that exceeds default ULB of 14	16.00%	46	1	2.17%
	Cutaway Buses	X% of fleet that exceeds default ULB of 10	30.00%	4	4	100.00%
	Vans	X% of fleet that exceeds default ULB of 8	20.00%	58	10	17.24%
Equipment	Non-Revenue Service Vehicle	X% of non-revenue service vehicles that exceeds default ULB of 8	35.00%	3	1	33.33%
	Non-Revenue Service Truck	X% of non-revenue service vehicles that exceeds default ULB of 8	40.00%	8	3	37.50%
Facilities	Admin/Maintenance Facility	X% of facilities rated under 3.0 on Term scale	0.00%	3	0	0.00%

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FTA defines ULB as “the expected lifecycle of a capital asset for a particular transit provider’s operating environment, or the acceptable period of use in service for a particular transit provider’s operating environment.” For example, FTA’s default ULB value for a bus is 14 years. FTA’s Transit Economic Requirements Model (TERM) scale, which pertains to the facilities measure, is a rating system that describes asset condition. The scale values are 1 (poor), 2 (marginal), 3 (adequate), 4 (good), and 5 (excellent). Because each measure is intended to represent the share of transit assets that are not in a state of good repair, the goal is to minimize the value for all four measures. FTA grantees, including transit agencies and agency sponsors, such as MassDOT, are required to develop targets for these TAM measures each fiscal year. MPOs, in turn, are required to set targets for their regions. BAT submitted agency-level targets for state fiscal year (SFY) 2021 (July 2020 through June 2021) to the Old Colony MPO. Their targets reflect the most recent data available on the number, age, and condition of their assets, and their expectations and capital investment plans for improving these assets during SFY 2021.

Consistent with U.S. Department of Transportation’s strategic objectives for the Surface Transportation Program, the FFY 2022 UPWP emphasizes the planning emphasis areas of the FAST Act Implementation, Regional Models of Cooperation, and Ladders of Opportunity.

- FAST Act Implementation - The Old Colony MPO continues to develop its performance management approach to transportation planning and programming. Performance-based planning and programming includes using transportation performance measures, setting targets, reporting performance, and programming transportation investments directed toward the achievement of transportation system performance outcomes. Appropriate UPWP work tasks include working with local planning partners to identify how to implement performance-based planning provisions such as collecting performance data, selecting, and reporting performance targets for the metropolitan area, and reporting actual system performance related to those targets. Such activities are included in the FFY 2022 UPWP through tasks such as the Management Systems (Congestion, Pavement, and Safety), and the Performance Management efforts.
- Regional Models of Cooperation - The Old Colony MPO seeks to ensure a Regional Approach to Transportation Planning by Promoting Cooperation and Coordination across MPO and Transit Agency Boundaries. To improve the effectiveness of transportation decision making, the Old Colony MPO thinks beyond traditional borders and conducts a coordinated approach to transportation planning. A coordinated approach supports common goals and capitalizes on opportunities related to project delivery, congestion management, safety, freight, livability, and commerce across boundaries. Improved multi-jurisdictional coordination by MassDOT, MPOs, and providers of public transportation can reduce project delivery times and enhance the efficient use of resources, particularly in urbanized areas that are served by multiple MPOs. During FFY 2022, the Old Colony MPO will continue to coordinate planning activities within the Boston Urbanized Area (UZA) with MassDOT and the common MPOs and seek to update the Boston UZA Coordination Memorandum of Understanding (MOU) to ensure that there are effective processes for cross-jurisdictional communication to improve collaboration, policy implementation, technology use, and performance management.
- Ladders of Opportunity - The Old Colony MPO, as part of the transportation planning process, identifies transportation connectivity gaps in accessing essential services. Essential services include employment, health care, schools/education, and recreation. The FFY 2020 UPWP includes efforts to develop and implement methods to identify gaps in the connectivity of the transportation system and developing infrastructure and operational solutions that provide the public, especially the traditionally underserved populations, with adequate access to essential

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services. As such, examples undertaken in previous UPWPs include Active Transportation Study (assessing the connectivity and safety and condition of pedestrian and bicycle facilities; and evaluating compliance with Americans with Disabilities Act, particularly around schools, concentrations of disadvantaged populations, social services, medical, and transit facilities), the Congestion Management Process, the Main Street Brockton Corridor Study (Brockton), the Route 53 Corridor Study (Hanover, Pembroke, Duxbury, and Kingston), the Route 106 Corridor Study (Kingston, Plympton, Halifax, East Bridgewater, and West Bridgewater), the Route 123 Corridor Study (Abington and Brockton), and the Route 139 Corridor Study (Hanover).

This year's UPWP efforts focus on the development of Road safety Audits at multiple locations, the Freight Planning and Action Plan, and the High Priority Corridor Screening Assessment, the FAST Act Performance Management and related Performance Measures and Target development, continued development of the Regional Travel Demand Model (TransCAD), operation of the Congestion Management Process, operation of the Safety Management System, operation of the Pavement Management System, and the development of the Transportation Improvement Program. Attention is also focused on the regional multi-modal data surveillance program (including counting of bicycles and pedestrians, developing an inventory of gaps in the bicycle network, and developing an index of regional bikeability), maintaining regional databases, adjusting, and amending certification documents as needed, and implementing the management systems. OCPC continues to integrate the Geographic Information Systems into various tasks and plans undertaken. The safety of our transportation network continues to be a priority, and a key consideration in the selection and prioritization of future projects. Tasks within the UPWP are consistent with the goals of the LRTP. As an example, the LRTP supports efforts to reduce congestion, improve safety, and develop capital projects that represent an efficient expenditure of public dollars. Such efforts are addressed in this UPWP under multiple tasks that include the Management Systems of Congestion, Pavement, and Safety, along with the TIP.

Federal transportation legislation continues to prioritize the concept of Sustainability and Livability within the transportation planning process. This concept is addressed in the Long-Range Transportation Plan, and in the Active Transportation Study. Beyond those efforts, one method for measuring the sustainability of a highway project is to assess the project against existing best practices. FHWA has developed and released a web-based tool known as the Infrastructure Voluntary Evaluation Sustainability Tool (INVEST). As such, the Old Colony MPO will continue to consider sustainability and livability and seek to utilize the INVEST Tool during the implementation of the FFY 2022 UPWP.

Public participation continues to be a vital element of the transportation planning process. The encouragement of participation and provision of meaningful access to all local citizens in metropolitan transportation planning is one of the most important goals of the "3C" (continuing, cooperative, and comprehensive) process. Community and transit representatives of the Old Colony Joint Transportation Committee (JTC) typically meet monthly on the first Thursday to discuss transportation investments and issues of regional importance. The Old Colony MPO meets several times per year to discuss and coordinate transportation planning issues, and to review and endorse certification documents. A Public Participation Program (PPP) was developed to solicit input to the various tasks and programs undertaken. This process will continually be reviewed and refined, as necessary. During FFY 2021, the PPP will be reviewed and updated consistent with the recommendations include in the recent Transportation Planning Certification Review.

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## 1.2 TITLE VI AND THE AMERICANS WITH DISABILITIES ACT (ADA)

Title VI of the 1964 Civil Rights Act, Executive Order 12898, Executive Order 13166, and Executive Order 13330

### Federal "Title VI/ Nondiscrimination" Protections

The Old Colony MPO operates its programs, services, and activities in compliance with federal nondiscrimination laws including Title VI of the Civil Rights Act of 1964 (Title VI), the Civil Rights Restoration Act of 1987, and related statutes and regulations. Title VI prohibits discrimination in federally assisted programs and requires that no person in the United States of America shall, on the grounds of **race, color, or national origin** (including **limited English proficiency**), be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity receiving federal assistance. Related federal nondiscrimination laws administered by the Federal Highway Administration, the Federal Transit Administration, or both prohibit discrimination based on **age, sex, and disability**. These protected categories are contemplated within the Old Colony MPO's Title VI Programs consistent with federal interpretation and administration. Additionally, the Old Colony MPO provides meaningful access to its programs, services, and activities to individuals with limited English proficiency, in compliance with U.S. Department of Transportation policy and guidance on federal Executive Order 13166.

### State Nondiscrimination Protections

The Old Colony MPO also complies with the Massachusetts Public Accommodation Law, M.G.L. c 272 §§ 92a, 98, 98a, prohibiting making any distinction, discrimination, or restriction in admission to or treatment in a place of public accommodation based on **race, color, religious creed, national origin, sex, sexual orientation, disability, or ancestry**. Likewise, the Old Colony MPO complies with the Governor's Executive Order 526, section 4 requiring all programs, activities, and services provided, performed, licensed, chartered, funded, regulated, or contracted for by the state shall be conducted without unlawful discrimination based on **race, color, age, gender, ethnicity, sexual orientation, gender identity or expression, religion, creed, ancestry, national origin, disability, veteran's status** (including Vietnam-era veterans), or **background**.

Executive Order 12898, dated February 11, 1994, expands upon Title VI, requiring each federal agency to achieve environmental justice by identifying and addressing any disproportionately high adverse human health or environmental effects, including interrelated social and economic effects, of its programs, policies, and activities on minority or low-income populations.

On April 15, 1997, the U.S. Department of Transportation issued its Final Order to Address Environmental Justice in Minority Populations and Low-Income Populations. Among other provisions, this order requires programming and planning activities to:

- Explicitly consider the effects of transportation decisions on minority and low-income populations.
- Provide meaningful opportunities for public involvement by members of minority and low-income populations.
- Gather (where relevant, appropriate, and practical) demographic information such as the race, color, national origin, and income level of the populations affected by transportation decisions.
- Minimize or mitigate any adverse impact on minority or low-income populations.

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Executive Order 13166, dated August 11, 2000, is intended to ensure compliance with Title VI of the Civil Rights Act of 1964 by specifically calling for improved access to federally conducted and federally assisted programs and activities for persons who, because of national origin, have limited English proficiency (LEP). To comply with the order, MPOs are required to develop and implement a system by which LEP persons can meaningfully participate in the transportation planning process.

FTA Environmental Justice Policy Guidance For Federal Transit Administration Recipients Circular 4703.1 (2012) provides recommendations on how to fully engage environmental justice populations in the public transportation decision-making process; how to determine whether environmental justice populations would be subjected to disproportionately high and adverse human health or environmental effects as a result of a transportation plan, project, or activity; and how to avoid, minimize, or mitigate these effects.

FTA Title VI Circular to 4702.1B (2012) provides guidance to grantees on how to comply with Title VI regulations, as well as to ensure grantees provide meaningful language access to persons who are limited English proficient.

### **The Americans with Disabilities Act (ADA)**

Title III of the Americans with Disabilities Act requires all transportation projects, plans, and programs to be accessible to people with disabilities. At the MPO level, this means that public meetings must be held in accessible places and MPO materials must be made available in accessible formats.

### **1.3 FUNDING SOURCES**

The period covered by each contract described in this UPWP by funding source is as follows:

- FHWA PL/ MassDOT; FTA 5303/ MassDOT: October 2021 through September 2022
- BAT: July 2021 through June 2022

For the contract beginning October 1, 2021, the FHWA PL (\$829,182) and FTA 5303 funds (\$130,019) will be combined into one appropriation to MassDOT to fund Old Colony MPO activities. FHWA and FTA will provide 80% of the funds (\$767,361), while MassDOT will provide the 20% match (\$191,840). MassDOT will annually work with the Old Colony MPO through a single contract that combines these two federal funding sources.

### **1.4 ADMINISTRATIVE MODIFICATION AND AMENDMENT PROCEDURES**

Unified Planning Work Programs, no matter how well planned, may need to be modified from their original MPO endorsed form. There are different actions that may be taken to modify the endorsed UPWP. These actions vary, depending on the extent of the modification, and have different impacts on the UPWP. All proposed administrative adjustments and amendments are presented to the MPO for consultation prior to endorsement. The procedures for modifying the UPWP are:

#### **UPWP Amendment**

A UPWP Amendment is the most extensive change procedure that a UPWP may undergo. A UPWP Amendment requires the proposed change to undergo a twenty-one (21) day public review period and requires MPO endorsement. However, the Old Colony MPO, at their discretion, may vote to abbreviate the public comment period under what they consider extraordinary circumstances beyond the MPO's control. Examples of actions that require an Amendment include:

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- Addition or deletion of a UPWP task or sub-task;
- Major changes to UPWP task descriptions, activities, and other information;
- Funding increase above the originally approved UPWP overall budget;
- Funding transfers between tasks equal to or greater than 25% of the UPWP task budget; and
- Funding increase or decrease equal to or greater than 25% of the UPWP task budget.

### **UPWP Administrative Modification (Adjustment)**

A UPWP Administrative Modification (Adjustment) is a minor Amendment. The Adjustment procedure requires an administrative action, consultation with the MPO, and MassDOT-OTP approval through the utilization of a Budget Reallocation Request Form. Examples of actions that require an Adjustment include:

- Minor changes to UPWP task descriptions, activities, and other information;
- Funding transfers between UPWP tasks less than 25% of the UPWP task budget; and
- Funding increase or decrease less than 25% of the UPWP task budget.

### **1.5 GEOGRAPHIC DISTRIBUTION OF MAJOR UPWP FUNDED STUDIES**

The Old Colony Planning Council staff monitors the geographic distribution of UPWP funded studies over time. Table 5 provides the distribution of Major UPWP Studies over the period of 2004 through 2021. To assist with providing context to the distribution, included in the table is 2010 Population and 2010-2014 Median Household Income. For the purposes of the analysis, a Major UPWP Study is defined as a study programmed in the UPWP under Element 3000 - Short Range and Long-Range Transportation Planning Activities. Major studies under this element typically involve the in-depth study and analysis of roadway corridors within a community or may include a roadway corridor that spans multiple communities. Major UPWP studies also may include studies such as region wide bicycle and pedestrian connectivity studies, climate change transportation studies, and priority development areas/ priority preservation areas studies.

From an examination of the distribution of Major UPWP Studies from 2004 through 2020, the following observations may be made:

- There are higher concentrations of studies within the more populated urban areas (i.e., Brockton and Stoughton). Such concentrations tend to follow areas with elevated levels of congestion and crash clusters.
- The towns of Bridgewater, Plymouth, and Stoughton have higher concentration of studies. A potential explanation for such a trend is that these populous communities feature proximity to limited access highways, commuter rail, and academic institutions of higher learning. Such features, while beneficial in many respects, also feature higher pedestrian, bicyclist and vehicle trips, and the need for additional multimodal and infrastructure.

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

**Table 5**  
**Geographic Distribution of Major UPWP Funded Studies (Task 3000)**  
**FFYs 2004-2022**

<b>Community</b>	<b>2010 Population</b>	<b>All Minority (Including White Hispanic) Population</b>	<b>Percent Title VI Minority</b>	<b>Median Household Income, ACS 2019 5-Year</b>	<b>Number of Major Studies, 2004 - 2022</b>	<b>Percentage of Total Studies, 2004 - 2022</b>
Brockton	93,810	53,542	57%	\$58,469	7	9.5%
Stoughton	26,962	5,822	22%	\$83,519	5	6.8%
Avon	4,356	741	17%	\$85,200	4	5.4%
Bridgewater	26,563	2,941	11%	\$95,675	4	5.4%
Easton	23,112	2,327	10%	\$112,268	1	1.4%
Abington	15,985	1,368	9%	\$99,381	4	5.4%
Plymouth	56,468	4,230	7%	\$90,279	4	5.4%
East Bridgewater	13,794	790	6%	\$90,528	4	5.4%
West Bridgewater	6,916	440	6%	\$97,404	3	4.1%
Whitman	14,489	886	6%	\$86,570	3	4.1%
Kingston	12,629	598	5%	\$96,104	4	5.4%
Halifax	7,518	282	4%	\$92,774	3	4.1%
Duxbury	15,059	560	4%	\$128,173	2	2.7%
Pembroke	17,837	699	4%	\$103,905	2	2.7%
Plympton	2,820	112	4%	\$94,167	2	2.7%
Hanover	13,879	579	4%	\$127,981	2	2.7%
Hanson	10,209	424	4%	\$96,693	1	1.4%
Region wide	362,406	76,341	21%	\$96,417	19	25.7%
					74	100.0%

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

**Table 6**  
**Geographic Distribution of Local Technical Assistance UPWP Funded Studies (Elements 2200 and 3200)**  
**FFYs 2015-2020**

Community	2010 Population	All Minority (Including White Hispanic) Population	Percent Title VI Minority	Median Household Income, ACS 2019 5-Year	UPWP Task 2200		UPWP Task 2200		UPWP Task 3200	
					Automatic Traffic Counter Recorder (ATR) Locations		Turning Movement Count (TMC) Locations		Local Technical Assistance (LTA) Studies	
					Number of ATR Counts FFYs 2015-2020	Percentage of ATR Counts FFYs 2015-2020	Number of TMCs FFYs 2015-2020	Percentage of TMCs FFYs 2015-2020	Number of LTA Studies FFYs 2015-2020	Percentage of LTA Studies FFYs 2015-2020
Brockton	93,810	53,542	57%	\$58,469	145	22.4%	80	29.3%	10	11.2%
Stoughton	26,962	5,822	22%	\$83,519	36	5.6%	6	2.2%	9	10.1%
Avon	4,356	741	17%	\$85,200	21	3.3%	3	1.1%	3	3.4%
Bridgewater	26,563	2,941	11%	\$95,675	23	3.6%	6	2.2%	1	1.1%
Easton	23,112	2,327	10%	\$112,268	45	7.0%	5	1.8%	8	9.0%
Abington	15,985	1,368	9%	\$99,381	63	9.8%	19	7.0%	6	6.7%
Plymouth	56,468	4,230	7%	\$90,279	76	11.8%	27	9.9%	16	18.0%
East Bridgewater	13,794	790	6%	\$90,528	15	2.3%	10	3.7%	1	1.1%
West Bridgewater	6,916	440	6%	\$97,404	30	4.6%	7	2.6%	4	4.5%
Whitman	14,489	886	6%	\$86,570	20	3.1%	8	2.9%	7	7.9%
Kingston	12,629	598	5%	\$96,104	29	4.5%	20	7.3%	3	3.4%
Halifax	7,518	282	4%	\$92,774	14	2.2%	10	3.7%	2	2.2%
Duxbury	15,059	560	4%	\$128,173	57	8.8%	22	8.1%	7	7.9%
Pembroke	17,837	699	4%	\$103,905	14	2.2%	13	4.8%	5	5.6%
Plympton	2,820	112	4%	\$94,167	14	2.2%	2	0.7%	1	1.1%
Hanover	13,879	579	4%	\$127,981	34	5.3%	32	11.7%	3	3.4%
Hanson	10,209	424	4%	\$96,693	10	1.5%	3	1.1%	3	3.4%
	<b>362,406</b>	<b>76,341</b>	<b>21%</b>	<b>Totals:</b>	<b>646</b>	<b>100.0%</b>	<b>273</b>	<b>100.0%</b>	<b>89</b>	<b>100.0%</b>

Analysis is through FFY 2020, as FFY 2021 is currently underway.



## **DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)**

### **TASK 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES**

To properly support and effectively control the transportation planning activities of the Old Colony Metropolitan Planning Organization, program support activities must be undertaken. These tasks allow for the functioning and the continued certification of the Old Colony MPO in accordance with the Commonwealth of Massachusetts and U.S. DOT requirements.

Task 1100 - 3C Program Support

Task 1200 - Unified Planning Work Program (UPWP)

Task 1300 - Public Participation Program (PPP)

Task 1400 - Transportation Improvement Program (TIP)

Task 1500 - Title VI and Environmental Justice (EJ)

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## TASK 1100 - 3C PROGRAM SUPPORT

### OBJECTIVE:

To manage, support, and provide the capability to maintain a Comprehensive, Cooperative, and Continuing Transportation Planning and Programming Process at all levels in conformance with applicable Federal and State requirements and guidelines. Tasks include preparation and presentation of transportation plans and programs (Long Range Transportation Plan, Unified Planning Work Program, Transportation Improvement Program, Public Participation Plan, and other transportation studies); Technical assistance and information related to transportation planning to the public, local, state and federal agencies; Review and updates to memorandums of understandings; Timely response to relevant planning studies by local, state, and federal agencies; and Contract administration.

### PREVIOUS WORK:

- Administration of Massachusetts Department of Transportation, Federal Highway Administration, Federal Transit Administration, Brockton Area Transit, Greater Attleboro-Taunton Transit Authority, and Executive Office of Energy and Environmental Affairs contract needs.
- Assistance with statewide transportation planning programs.
- Distribution of information on federal and state rules and regulations.
- Input and support for economic and community development programs.
- Maintenance and federal certification of a viable and ongoing 3C Transportation Planning Process.
- Maintenance and operation of the Old Colony Metropolitan Planning Organization and Old Colony Joint Transportation Committee.
- Preparation of 3C certification documents.
- Provision of ongoing technical assistance to departments, agencies, authorities, and communities.
- Support for public participation and private involvement in the 3C process, Federal Highway Administration, Federal Transit Administration, and air-quality programs.

### PROCEDURES:

1. Provide administrative and technical support to the 3C regional planning process; Provide community liaison activities and short term planning assistance to communities on transportation planning matters; Review Federal and State transportation programs, guidelines, circulars and manuals, plans and regulations as may be required or necessary; Provide for and support public and private involvement in the 3C Planning Process; and Participate in informational programs on transportation, air quality, hazardous waste, energy conservation, accessibility, casinos/ gaming, and other planning.
2. Provide and maintain coordination for Old Colony MPO activities including the preparation and presentation of certification documents, transportation plans and programs (e.g., Unified Planning Work Program, Long Range Transportation Plan, Transportation Improvement Program, Amendments, etc., Public Participation Plan), developed through the public participation process. Distribute documents/ amendments to the Old Colony MPO for appropriate action and/ or endorsement as needed; Develop documents necessary for the certification reviews and the self-certification process; and Maintain all Old Colony MPO documentation records, and files.
3. Provide for participation of staff in educational development programs and conferences with coordination of BAT, GATRA, FHWA, FTA, MassDOT, MBTA, and other agencies as needed.

## **DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)**

4. Provide inter-agency coordination with other transportation agencies, including FHWA, FTA, MassDOT, MBTA, RPAs, and RTAs on an ongoing, regular basis; and Coordinate highway-planning activities with local officials and MassDOT District 5.
5. Provide financial management of the transportation planning contracts with FHWA/ MassDOT, BAT, GATRA, and MBTA, and staff supervision and work assignments; and Prepare applications, contracts, time sheets, progress reports, invoices, request forms, and perform other contract administration activities necessary to the conduct of the 3C Transportation Planning Process.
6. Follow up on recommendations of previous transportation planning studies by attending and participating in public meetings or making presentation of study results.
7. Coordinate planning activities within the Barnstable Urbanized Area and the Boston Urbanized Area with MassDOT, the common MPOs, and the providers of public transportation to ensure that there are effective processes for cross-jurisdictional communication to foster collaboration, policy implementation, technology use, and performance management.
8. Review and implement Transportation Planning Certification Review recommendations. Implementation of recommendations will be guided by the Action Plan and reported on quarterly.

**PRODUCTS:**

Maintenance and federal certification of a viable 3C Transportation Planning Process and Old Colony MPO operation; Support of community development and environmental planning; Memorandums of Understandings reviews including 3C Memorandum of Understanding review and amendments; Information on FAST Act and the Clean Air Act (CAA) as needed; Consideration and implementation of MPO certification review recommendations; Inter-agency meetings, memorandum and correspondence on various aspects of the transportation planning program; Attendance and participation in Transportation Program Managers Group; and Administration of contracts and invoices.

**SCHEDULE:**

Management and support activities to be carried out on a continuing basis throughout the program year.

**FUNDING:**

FHWA PL	MassDOT					TOTAL
\$48,000	\$12,000					\$60,000

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## TASK 1200 - UNIFIED PLANNING WORK PROGRAM (UPWP)

### OBJECTIVE:

To develop, endorse and maintain an annual UPWP that provides a description of the overall transportation related planning activities that are ongoing and anticipated in the region, during the forthcoming year and include funding sources and agency responsibility. Endorsement of this document shall be consistent with the procedures documented in the Public Participation Plan.

### PREVIOUS WORK:

UPWPs prepared and endorsed annually by the Old Colony MPO; Monthly Invoices; and Quarterly Progress Reports, and Year End Progress Reports.

### PROCEDURES:

1. Maintain the current UPWP and prepare related invoicing; and Review and adjust and/ or amend the UPWP when necessary and circulate revisions to the Old Colony MPO, Old Colony JTC, OCPC, and other appropriate agencies for review, adjustments, and/ or endorsement, as appropriate.
2. Follow the Old Colony MPO endorsement process for amendments. Other revisions to the Unified Planning Work Program, such as changes in the existing level of effort or funding of a specific task or the addition/ deletion of a task and procedures within the current contract/ grant programs, etc., will be made as required throughout the program year upon mutual agreement of the agencies involved. Such revisions/ adjustments will be conducted by the OCPC staff and distributed to the appropriate agencies, as appropriate. These revisions/ adjustments require formal Old Colony MPO consultation.
3. Develop the FFY 2023 UPWP for the Old Colony region covering the upcoming federal fiscal year. The UPWP will be developed in conformance with the latest federal and state regulations and guidelines. The UPWP describes transportation, air quality and transportation related planning activities anticipated within the region during the upcoming year. The staff will prepare the UPWP in coordination with the Old Colony JTC and submit it in draft version to BAT, GATRA, FHWA, FTA, OCPC, and MassDOT for public review and comment. The Old Colony MPO will endorse the final document by July 2022.

### PRODUCTS:

Maintain the current UPWP and prepare invoices; Prepare Quarterly and Year-End Progress Reports; Prepare and submit Adjustments and Amendments, as needed; and Prepare the FFY 2023 UPWP.

### SCHEDULE:

FFY 2023 UPWP to be developed and endorsed by July 2022.

### FUNDING:

FHWA PL	MassDOT					TOTAL
\$11,200	\$2,800					\$14,000

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## TASK 1300 - PUBLIC PARTICIPATION PROGRAM

### OBJECTIVE:

To continue to support, implement, review, and amend the Old Colony MPO's Public Participation Plan that was developed and endorsed in 2021. This process is designed to ensure that key public agencies at all levels of government, private and nonprofit organizations and interested citizens will be kept apprised of transportation planning activities and opportunities to participate in the region. The encouragement of participation and provision of meaningful access to the metropolitan transportation planning for the public is one of the most important goals of the "3C" (continuing, cooperative, and comprehensive) process. The Public Participation Plan is reviewed and updated as deemed appropriate.

To provide staff support and actively encourage public and private participation in the 3C planning process through the Old Colony JTC, Old Colony MPO, and OCPC.

To continue monitoring the effectiveness of its public participation program. The process outlines the public outreach procedures that will be followed by the Old Colony MPO in developing and amending the Region's LRTP and TIP.

To conduct outreach activities related to the development of FAST Act performance measures and targets.

### PREVIOUS WORK:

2020 Measures of Effectiveness Report; Old Colony JTC Newsletters; OCPC Newsletters; News Releases and Articles for the Media; OCPC Annual Reports; Old Colony JTC meetings; Old Colony LRTPs; Old Colony TIPs and Implementation; Public Engagement; Title VI Reports; and Public Participation Plans.

### PROCEDURES:

1. Provide a proactive public involvement process that provides complete information, timely public notice, full public access to decisions, and support continuing involvement of the public in the developing Plans, Transportation Improvement Programs, and other documents; and Employ social media as a meaningful and effective communication medium.
2. Provide staff support and actively encourage public and private participation in the 3C planning process through the Old Colony Joint Transportation Committee including:
  - Host meetings of the Old Colony JTC and Old Colony MPO.
  - Work with the Old Colony JTC, working towards expanding and educating the membership.
  - Modify and expand the Transportation Advisory Network (TAN) as appropriate.
  - Maintain and update comprehensive mailing lists of interested groups, local, state, and federal agencies, Old Colony JTC, minority and low-income groups, and individuals who should be informed of regional plans, programs, and accomplishments in comprehensive transportation and environmental planning and development.
  - Ensure early and continuing involvement of the public in the development of plans and other documents. Utilize visualization techniques and publish or announce the availability of plans and/or document for review and comments.
  - Review and evaluate the effectiveness of the public participation plan; identify innovative public involvement techniques and/or programs that enhance public participation.
  - Implement the public involvement process with particular emphasis on the LRTP and the TIP.
  - Continue to prepare mailings, newspaper announcements, public notices, and public service announcements, as outlined in Old Colony MPO's Public Participation Plan.

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- Continue to identify under-served and under-represented groups in the Old Colony region, continue to make efforts to reach out, attempt to get them interested, and involved in the transportation planning process. OCPC will continue efforts to broaden public participation especially reaching out to the limited English proficient, minority, and low-income population groups.
  - Provide staff support and actively encourage both public and private minority groups/ agencies participation in the 3C planning process.
- 3. Prepare articles and documentation related to transportation planning including: Articles for the OCPC Annual Report, newsletters, website, and other media outlets, as appropriate.
- 4. Address Title VI and Environmental Justice as part of the public participation process and ensure that there is equity in the distribution of transportation resources in the Old Colony region. This process is designed to ensure that public and private minority agencies, organizations, and interested residents will be kept apprised of transportation planning milestones in the region. The encouragement of meaningful participation of local minority groups, organizations, and citizens in metropolitan transportation planning is one of the most important goals of the "3C" process (comprehensive, cooperative, and continuing).
- 5. Present transportation plans and programs (Long Range Transportation Plan, Transportation Improvement Program, Public Participation Plan, and Unified Planning Work Program) developed through the public participation process to the Old Colony MPO for appropriate action.
- 6. Maintain, adjust, and/ or amend the current PPP and ensure that the interested parties and the public are involved in developing outreach procedures and will have opportunities to voice their opinions on these changes once proposed. Endorsement procedures will be conducted in a manner acceptable to the FHWA and FTA.
- 7. Conduct outreach activities related to the development of FAST Act performance measures.
- 8. Prepare Annual Measures of Effectiveness (MOE) Report that qualitatively and quantitatively measures the effectiveness of the public participation process.

### PRODUCTS:

Measures of Effectiveness (MOE) Annual Report; Old Colony MPO meetings; Old Colony JTC meetings and documents; Old Colony MPO meetings and documents; Website Notices; Legal Notices; Articles in OCPC Annual Report and News Releases; Participation in public meetings; Public Engagement; Newsletters; Outreach activities related to the development of performance measures and thresholds; Maintenance of a viable Public Participation Process; 2022 Old Colony Title VI Report; and Public Participation Plan Amendments, and refinements for the website.

### SCHEDULE:

To be carried out throughout the program year.

### FUNDING:

FHWA PL	MassDOT					TOTAL
\$48,800	\$12,200					\$61,000

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## TASK 1400 - TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

### OBJECTIVE:

To develop and maintain a multi-year, financially constrained, program of transportation improvement projects that is consistent with the Old Colony MPO's LRTP, the State Implementation Plan (SIP), the Environmental Protection Agency's Air Quality Conformity Regulations, and US DOT Planning Regulations. The TIP will include a program of highway and transit projects for FFY 2023-2027. Any project, which is to be implemented, using federal funding, must appear in this document and any project, which is to be implemented in the current fiscal year, must appear in the annual element. Projects and service implemented through the TIP will help to achieve the performance targets for Safety (PM 1), Bridge and Pavement Condition (PM 2), System Performance Measures (PM 3), Public Transportation Agency Safety Plan (PTASP), and Transit Asset Management State of Good Repair.

The FFY 2022-2026 TIP will be maintained, and any amendments will be conducted in accordance with the PPP. The FFY 2023-2027 TIP will be developed and endorsed.

### PREVIOUS WORK:

Transportation Improvement Programs have been developed and endorsed annually; Public Participation Process; Transportation Improvement Program Amendments and Administrative Modifications; Evaluation Criteria Analyses; GHG Tracking and Evaluations; Project Evaluations; Technical Assistance and formulation, implementation, and coordination of TIP Subcommittee; and Preparation of related products.

### PROCEDURES:

1. Develop a program of projects: In developing the FFY 2023-2027 TIP, staff will update the list of all transit, highway, and bridge projects that are expected to require federal and state transportation funds for planning and engineering, construction, or purchase during FFYs 2023-2027. This work will include:
  - All transportation projects or programs that require FHWA or FTA approval.
  - For informational purposes, all projects to be funded with Federal funds other than those from FHWA or FTA.
  - For informational purposes, all projects to be funded with Non-Federal Funds.
2. Provide the following information: The MassDOT identification number; Project description; Transportation Evaluation Criteria Scores; Estimated total cost expressed in year of expenditure dollars; Amount of federal funds proposed to be obligated during each program year; Proposed source of Federal and Non-Federal funds; and Identification of the recipient/ sub recipient and state and local agencies responsible for carrying out the project, and project phase. In addition, the total costs of projects seeking Federal funds in each program year shall not exceed reasonably anticipated Federal funds.
3. Prepare the Draft FFY 2023-2027 TIP. The following tasks and procedures will be performed during the development of the Draft FFY 2023-2027 TIP:
  - Include involvement of the communities, elected officials, and the public through the public participation process.
  - Provide technical assistance to municipalities and transit providers in developing projects and priorities.

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- Meet with communities, MassDOT District 5, MassDOT, and consultants in developing project information, and utilizing Transportation Evaluation Criteria.
  - Solicit and analyze Congestion Mitigation and Air Quality Projects.
4. The Transportation Improvement Program will also include sections relative to:
    - Funding categories and amounts of federal funding proposed to be obligated during each program year.
    - An Annual Listing of Obligated Projects, programs, and an explanation of any significant delays in the planned implementation of major projects.
    - A description of the transportation evaluation criteria and process for prioritizing projects.
    - Air quality significance and relationship of the TIP, State Transportation Improvement Program, and State Implementation Plan.
    - Results of Greenhouse Gas (GHG) Emission Analyses.
    - A financial plan that compares revenue needs to revenue sources for highway and transit programs.
  
  5. Public Participation: There will be reasonable public engagement and opportunity for public comment on the Draft FFY 2023-2027 TIP in accordance with the PPP. Public meetings of the JTC and MPO will be held during the TIP development process and both the proposed and approved TIP will be published or otherwise made readily available for informational purposes via various media outlets, and website.
  
  6. TIP Administrative Modifications/ Amendments: Amendments to the TIP will require Old Colony MPO endorsement. Administrative Modifications to the TIP typically require approval of the Old Colony JTC and notification of the Old Colony MPO.
  
  8. Conduct public health assessments and consider public health outcomes as part of ongoing planning and performance measures planning.
  
  9. TIP Endorsement: The TIP will be reviewed and endorsed by the Old Colony MPO. Once endorsed, the TIP will include the required air quality conformity documentation necessary for U.S. DOT and EPA conformity determinations.

**PRODUCTS:**

Maintenance of the FFY 2022-2026 TIP, and Amendments and Administrative Modifications, as needed; Preparation and endorsement of the FFY 2023-2027 TIP.

**SCHEDULE:**

The FFY 2023-2027 TIP will be developed and endorsed by June 2022.

**FUNDING:**

FHWA PL	MassDOT					TOTAL
\$33,600	\$8,400					\$42,000



# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## TASK 1500 - TITLE VI AND ENVIRONMENTAL JUSTICE

### OBJECTIVE:

To ensure that there is equity in the distribution of transportation resources in the Old Colony region. Ensuring that the 3C planning process is accessible to the public, including members of the Title VI, Environmental Justice, and Limited English Proficiency communities is a central federal, state, and regional priority. This process is designed to ensure that public and private minority agencies, organizations, and interested citizens will be kept apprised of and involved in the transportation planning milestones in the region. The encouragement of participation and provision of meaningful access to all local citizens in metropolitan transportation planning is one of the most important goals of the "3C" (continuing, cooperative, and comprehensive) process. The MPO process engages with these populations throughout all transportation planning related activities.

### PREVIOUS WORK:

Old Colony LEP Plan; Old Colony PPP; Old Colony JTC Newsletters; OCPC Newsletters; News Releases and Articles for the Media; OCPC Annual Reports; Website; Old Colony JTC meetings; 2020 LRTP Public Participation Process; TIP and Implementation Process; and Annual Old Colony Title VI Reports.

### PROCEDURES:

1. Ensure that there is equity in the distribution of transportation resources and that there is reasonable access to the planning process, OCPC will continually conduct Title VI and Environmental Justice planning for the Old Colony Region. The planning includes the following:
  - Evaluate the effectiveness of the public participation plan for engaging transportation-disadvantaged communities in the transportation decision-making process.
  - Regional maps using the U.S. Census illustrating where high concentrations of minority and low-income persons are located.
  - Regional maps using the U.S. Census identifying where highway Transportation Improvement Projects are in relation to minority population and low-income areas.
  - Regional maps using the U.S. Census illustrating the existing transit routes, fatal crash locations, pavement conditions, safe routes to school buffers, and future capital transit projects.
  - Examination of mobility issues using the U.S. Census, access to jobs and services, and levels of service for both transit services and automobiles.
  - Promote access to the planning process to those with limited English proficiency by developing and utilizing techniques and strategies such as visualizations, graphics, posters, interpreters, and providing information via ethnic media and community-based organizations.
  - Analyze the outcomes of processes and plans by assessing the geographic distribution of the benefits and burdens of the regional transportation system to protected populations.
2. Provide staff support and actively encourage both public and private minority groups/ agencies/ community-based organizations participation in the 3C planning process through the Old Colony Joint Transportation Committee.

### PRODUCTS:

Title VI and Environmental Justice planning for the Old Colony Region; 2022 Title VI Annual Report; Maintain an outreach contact list of minority groups and community based organizations; Develop maps identifying minority and low-income populations, transit route maps, and maps showing existing and future location of Transportation Improvement Program and Transportation Plan projects; Conduct

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benefits, burden analysis, and include in TIP; Continue to expand outreach process and methods; Obtain and secure on-call interpreters; and Utilize MassDOT Title VI Tool.

### SCHEDULE:

To be carried out throughout the year.

### FUNDING:

FHWA PL	MassDOT					TOTAL
\$35,200	\$8,800					\$44,000

## **DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)**

### **TASK 2000 - DATA RECONNAISSANCE, ACQUISITION, AND ANALYSIS ACTIVITIES**

A major requirement of planning is to know what is happening in the real world. Surveillance activities are designed to do just that by gathering data on transportation resources, their use, and demand for their use. This information is used to locate and define problems for further study and analysis, define requirements for plans and designs, develop programming priorities and evaluate the success of projects after implementation.

Task 2100 - Demographic and Land Use Surveillance

Task 2200 - Multi-Modal Data Surveillance and System Monitoring

Task 2300 - System Planning Resource Activities

Task 2400 - Geographic Information System (GIS)

Task 2500 - Management Systems (Congestion, Pavement & Safety), and Travel Demand Modeling

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## TASK 2100 - DEMOGRAPHIC AND LAND USE SURVEILLANCE

### OBJECTIVE:

To continue to develop, update, and maintain current demographic and land use information and data to ensure that transportation planning, programming analyses, and forecasting methods are based on the most current information. This includes analyzing social, economic, and land use data, including historic, current, and forecast information, and the development, update, and revision of socioeconomic forecasts, and updated the road inventory for use in refinement of the regional transportation model and the LRTP.

### PREVIOUS WORK:

Population, employment, land use, building permits, build out analyses, Journey to Work data, forecasts, and GIS data analyses; Road Inventory Updates; Regional demographic data book preparations; U.S. Census Participant Statistical Areas Program (PSAP); and MassBuilds project updates.

### PROCEDURES:

1. Review and continue to maintain, update, and develop where appropriate existing demographic files based on the U.S. Census information, and the 2011 Massachusetts Household Transportation Survey.
  - Attend and participate in workshops and courses (U.S. Census, CTPP, etc.) sponsored by FHWA, FTA, MassDOT, Baystate Roads, and other agencies or groups.
  - Develop traffic analysis zones for the travel demand model with the most recent census data, as it becomes available.
  - Develop, update, and revise socioeconomic forecasts for use in refinement of the regional model, Geographic Information Systems, and the Long-Range Transportation Plan.
  - Provide and respond to requests for U.S. Census Data and demographic data.
  - Review and analyze the U.S. Census Data and demographic data.
  - Review, maintain and periodically update physical data and prepare data maps, including land use, zoning, etc.
  - Review, update, and add development projects in MassBuilds.
2. Socio-Economic forecasting
  - Develop, update, and revise socioeconomic forecasts for use in refinement of the regional travel demand model.
  - Obtain the necessary information to revise the population and employment projections based on the U.S. Census, and the 2011 Massachusetts Household Transportation Survey.
3. Monitor changes in local government land use plans and regulations, land use patterns, development projects, trip generations, on and off-site mitigation, and the various associated land use characteristics of the region to update the land use and zonal forecasts, and to use as inputs into the MassBuilds, congestion management process, and mitigation activities.

### PRODUCTS:

Updated Socio-Economic Data Files; Journey-to-Work Data Tables and Reports; Technical assistance regarding the 2020 U.S. Census, and the 2011 Massachusetts Household Transportation Survey; Updates to MassBuilds; Development of Priority Development Areas and Priority Preservation Areas.

### SCHEDULE:

To be carried out throughout the year.

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### FUNDING:

FHWA PL	MassDOT					TOTAL
\$16,000	\$4,000					\$20,000

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## TASK 2200 - MULTI-MODAL TRANSPORTATION SYSTEM SURVEILLANCE AND SYSTEM MONITORING

### OBJECTIVE:

To develop and maintain a region-wide, multi-modal transportation system-monitoring program (includes OCPC Program and MassDOT).

To respond to requests for traffic (vehicle, bicycle, pedestrian, and transit) counts from state and municipal officials within the region.

To preserve up-to-date files of traffic - specific data characteristics of the multi-modal transportation system, demand, and its use.

To conduct pedestrian counts, bicyclist counts, vehicle counts, and transit counts, and prepare measures such as levels of service.

### PREVIOUS WORK:

Annual Old Colony Traffic Volume Reports; Maintenance of database of local, state, and other traffic counts, and MS2 upload; Turning movement counts and Travel Time Studies; Collection and analysis of data previously performed for other transportation studies; Speed and vehicle classification studies requested by member communities; Review of studies and reports prepared by agencies and consultants; and MassDOT/ RPA Traffic Count Program (vehicle, bicycle, pedestrian, and transit). In addition, a count program of strategic road/ locations within the region has been developed to provide information for implementation of the regional growth factors, and model inputs, etc.

### PROCEDURES:

1. Undertake a transportation system counting program (vehicle, bicycle, pedestrian, and transit) in coordination with municipal and MassDOT officials including:
  - Conduct bicycle and pedestrian counts, as appropriate.
  - Conduct directional traffic counts as part of the MassDOT Statewide Traffic Coverage Counts, and upload to MS2.
  - Conduct traffic counts using mechanical recorders and conduct manual turning movement counts within the region, and/or as needed for planning purposes.
  - Conduct transit passengers and vehicle counts.
  - Conduct turning movement counts and upload to MS2.
  - Develop bikeability measures and/ or quality of service metrics.
  - Maintain and continue to expand on an ongoing region wide traffic count database for use in monitoring regional VMT growth rate.
  - Maintain interactive traffic count database.
  - Measure levels of service for all modes (vehicle, pedestrian, bicycle, and transit).
  - Prepare reports summarizing the traffic counting activities in the region (includes distribution to MassDOT), as appropriate.
  - Prepare inventory of gaps within the regional bicycle network.
  - Provide maintenance, payments, and replacements of all traffic counters, and traffic counting related equipment, as needed.
  - Purchase equipment and supplies as needed to continue the traffic count program.
  - Verify and calibrate traffic counters according to MassDOT Procedures.

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2. Conduct additional transportation system (vehicle, bicycle, pedestrian, and transit) counts as needed to refine and update the traffic count database for the travel demand model.
3. Undertake travel time and vehicle occupancy study in the Old Colony region as needed for the Regional Transportation Model, the LRTP, and/ or other planning activities.
4. Review, monitor and update the following transportation systems data as needed including:
  - Average Daily Traffic and transportation growth trends and seasonal adjustments (vehicle, pedestrians, bicycles, and transit).
  - Commuter rail parking lots and park and ride facilities (inventory) and utilization study.
  - Traffic crash and crash rate documentation.
  - Traffic control devices.
  - U.S. Census Place of Work and Residence Data.
  - 2011 Massachusetts Household Transportation Survey.
5. Develop and maintain staff awareness of Intelligent Transportation System Technology and promote Intelligent Transportation System solutions in the region and participate in the implementation of Intelligent Transportation System Architectures.

**PRODUCTS:**

Transportation System Counting Program; Bikeability measures and/ or quality of service metrics; Highway Data Displays; speed and classification reports; Turning movement counts; MS2 Upload; Vehicle Occupancy and Travel Time Reports as needed and updated traffic counts on a community/ roadway basis and a data layer of regional counts with Geographic Information System and Commuter Rail Parking Lots and MassDOT Park and Ride Utilization documentation; Replacement, maintenance, and, purchase of traffic counters, equipment, and software; Annual Traffic Volumes Report; Traffic Count Interactive Database; Turning Movement Count Interactive Database; and Traffic Volume Growth/ Decline Rates.

**SCHEDULE:**

To be carried out typically from January to December (weather permitting). Year End Traffic Volume Report to be completed during spring 2022.

**FUNDING:**

FHWA PL	MassDOT					TOTAL
\$65,600	\$16,400					\$87,000

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## TASK 2300 - SYSTEM PLANNING AND RESOURCE ACTIVITIES

### OBJECTIVE:

To continually improve the region's capability for estimating and evaluating impacts of existing and proposed regional and multi-modal transportation facilities and to provide support for the day-to-day operation of the Transportation Department's computer systems and to expand the utility of the computers to other areas of transportation planning. Additionally, to provide for staff development, training, and their related participation in educational development programs, seminars, conferences, and courses.

### PREVIOUS WORK:

Staff development and participation in courses, seminars, and workshops (on-going project); Use of TransCAD, Geographic Information System, HCS, Pavement Management, McTrans Highway Capacity Software, SYNCHRO, CMAQ Analysis, GHG Analysis, and other transportation analysis software packages; Purchase, installation, and upgrade of computer systems, software, and equipment, as needed; and Purchase of relevant reference materials and documents.

### PROCEDURES:

1. Staff development, attendance and participation in transportation courses, trainings, seminars, and workshops sponsored by BAT, GATRA, DEP, EOEAA, EPA, FHWA, FTA, MassDOT, and others. This will assist staff in continued and ongoing development, maintenance, and application, sketch planning, quick response, and other forecasting methods. This will also encompass all activities that are directed to the production of new computer procedures that support analytical, administrative and documentation tasks.
2. Computer hardware and software acquisition, maintenance, and updates.
  - Purchase, update/ upgrade, and maintenance of all hardware equipment/ supplies and software applications that are needed for the Transportation Section's computer facilities.
  - Integrate computer capabilities into all practical aspects of the transportation planning process. This effort entails the acquisition, testing, and refinement of additional hardware and transportation related software from U.S. DOT supported research and other public agencies as well as private companies.
  - Provide necessary support for the effective operation of the staff's computers.
  - Monitor technological development in the field of computer hardware and software for potential use in planning activities. Continue ongoing planning, evaluation, and implementation of computer software and hardware.
  - Familiarize the Transportation Staff with the computer facilities and applications through informal and formal training sessions.
  - Continue to maintain and update the inventory of programs and data files.
  - Maintain and update website.

### PRODUCTS:

Staff development of enhanced technical and multi-modal planning capabilities; Attend courses/ workshops etc.; Maintain, and update website, computer hardware and software, and knowledge bases, as needed; Purchase of relevant software, reference materials, and documents; and Application of new forecasting techniques and transportation analysis techniques.



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**SCHEDULE:**

To be carried out throughout the year.

**FUNDING:**

FHWA PL	MassDOT					TOTAL
\$38,400	\$9,600					\$48,000

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## TASK 2400 - GEOGRAPHIC INFORMATION SYSTEM (GIS)

### OBJECTIVE:

To improve, develop, and utilize the digital data and geographic tools of the GIS for various tasks within the UPWP. The GIS provides the ability to store, display, manage, and analyze data for different work tasks. This includes land use projections for the LRTP; road inventory files; travel demand modeling; traffic volume; high-crash locations; roadway functional classification; transit route analysis; and pavement management analysis. This task will also include collaboration with communities and regional organizations, and provision of technical assistance on geographic matters.

### PREVIOUS WORK:

Roadway Classification; technical assistance program for member communities; Regional crash database; Regional land use map; Regional growth maps; Regional build out analyses; Parcel Maps; Priority Development Areas (PDAs) and Priority Preservation Areas (PPAs); Crash Cluster Maps; Stormwater Maps; and Developed Land as of 2009.

### PROCEDURES:

1. Collect and map data on bus stops, routes, and ridership.
2. Collect and map data on vulnerable populations (based on income, race, color, national origin, disability, age, and sex) and ensure that data on seniors and disabilities are reported separately.
3. Collect and map data on where affordable housing is located.
4. Enhance system abilities and develop regional databases and geodatabases.
5. Enter relevant demographic, economic, environmental, stormwater, drainage, and traffic data into the GIS as needed to provide increased abilities for organization, analysis, and retrieval.
6. Identify and map Priority Development Areas (PDAs), 43D Priority Development Sites, Transformative Development Initiative Districts (TDIs).
7. Provide GIS, Global Positioning System, and technical assistance to regional communities.
8. Review, select, and purchase additional software and hardware as needed.
9. Utilize GIS and GPS capabilities in maintaining traffic data, mapping pavement condition information, mapping existing and projected land use data for use in various transportation projects such as the revisions to long range transportation plans, special studies, road inventories, roadway functional classifications, crash location analyses, travel demand models, and transit routes; etc.

### PRODUCTS:

Base maps; Overlay files, and photography that can be utilized for tasks including travel demand modeling, traffic counting program, management systems, road inventory; PDAs and PPAs maps; 43D Priority Development Sites maps; Transformative Development Initiatives Districts (TDIs) maps; Crash data processing; Transit routing; Vulnerable population maps; Environmentally sensitive areas; Data models for advanced geoprocessing; and Traffic signal and intersection inventory.

### SCHEDULE:

To be carried out throughout the year.

### FUNDING:

FHWA PL	MassDOT					TOTAL
\$51,200	\$12,800					\$64,000

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## TASK 2500 - MANAGEMENT SYSTEMS (CONGESTION, PAVEMENT, AND SAFETY), AND TRAVEL DEMAND MODELING

### OBJECTIVE:

#### **Congestion Management Process (CMP)**

To continue to implement a congestion management process. Considered an ongoing effort, staff will continue to collect and maintain data needed in the estimation of refined performance measures while identifying both existing and future needs of the region's transportation system (vehicle, pedestrian, bicyclist, and transit). Subsequently, ranked regional listing of congested highways, transit facilities, pedestrian and bicycle, and park and ride parking facilities that have been established will continue to be refined. As part of this System, regional congestion will be addressed at locations identified in the 2020 Old Colony LRTP.

#### **Pavement Management System (PMS)**

To continue to implement a pavement management system on a continual basis in keeping with objective driven, performance-based planning. Staff will continue to collect and analyze road surface data on federal aid eligible roadways and update the PMS database on an ongoing basis. Staff will also continue to assist and provide technical assistance to local communities interested in developing a local Pavement Management Program. Staff will continue research in updating and/ or replacing the existing the pavement management system software.

#### **Safety Management System (SMS)**

To continue to implement a safety management system. This consists of a systematic process that has the goal of reducing the number of and severity of traffic crashes on roads, reducing transit crashes, reducing pedestrian crashes and injuries, and reducing bicyclist crashes and injuries. Recommended actions include providing information for selecting and implementing effective safety strategies and projects. The safety management system incorporates roadway, human, and vehicle safety elements. Considered an ongoing effort, staff will collect and maintain data needed in the estimation of refined performance measures and the completion of road safety audits. Staff will identify both existing and future needs of the region's multi-modal transportation system regarding safety. This includes producing a "Top 100" crash locations list, including both intersections and corridors, based on regional criteria to develop a list of unsafe locations from a regional perspective, annual regional listings and monitoring of high hazard intersections and corridors, participation and implementation of the Strategic Highway Safety Plan and the Highway Safety Improvement Program, and evaluation of potential improvements.

#### **Travel Demand Modeling**

To continue to develop staff capabilities in using the TransCAD Modeling System and provide assistance in the development of the Statewide Model; Continue refinement, calibration, development, maintenance, and application of the Old Colony Regional Travel Demand Model used in the development of the Long Range Transportation Plan; and Continue refining and calibrating the transportation demand model to meet the forecasting requirements of federal transportation and air quality laws and regulations.

The regional transportation model is an effective and comprehensive way to forecast transportation needs for the next 20 years in the Old Colony region. The transportation model enables forecasting of traffic impacts caused by population and economic growth, identifies congestion growth areas on highways, impacts on travel patterns, and estimate Vehicle Miles Traveled. The model is a valuable transportation tool in analyzing the transportation network and evaluating alternative solution to transportation problems.

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Staff may hire a consultant to assist with model refinements and will utilize the model in testing of the transportation alternatives as part of the refinement of the Long-Range Transportation Plan and traffic studies as appropriate. The model will also be used to assist in identifying future problem areas and in the development of strategies for the ongoing CMP. Staff will utilize the model in testing of the transit alternatives as part of the refinement of the LRTP and transit studies as appropriate. Staff will continue to work with the MassDOT in developing the statewide travel demand model as needed.

### **PREVIOUS WORK:**

#### **Congestion Management Process**

Monitoring and analysis of the parking, transit, and roadway facilities. Link V/C Ratios as part of the regional traffic-counting program; Participation on the Congestion Management Technical Team, development of strategies, and corridor studies; Data collection, consisting of numerous travel time runs on roads identified as having existing congestion; and Analyzation of Brockton Area Transit's route ridership data. Staff also identified and analyzed the park and ride lots and commuter rail lots in the region and identified problematic bottleneck areas to be studied.

#### **Pavement Management System**

Maintenance of a PMS on the federal aid eligible roadways miles in the region (approximately 642 miles); Report On Roadway Condition; Road Inventory Update; Technical assistance to communities interested in Pavement Management Program; Pavement Management Subcommittee; PCI development for incorporation in transportation evaluation criteria, and formation coordination and implementation of Pavement Management Subcommittee, and related products; Review of consultant proposals for updating and/ or replacing the pavement management system software; and Revisions to the PMS database to reflect changes in road classifications, and cost of materials for developing budgets.

#### **Safety Management System**

Participation in development of Highway Safety Improvement Program; Safety analyses as part of Transportation Evaluation Criteria application; Crash Rate processing; Top 100 High Hazard Intersections; Road Safety Audits (RSAs); and Studies for communities warranting specific attention to safety.

#### **Travel Demand Modeling**

The Regional Transportation Model was used as an analytical tool during the development of the LRTP. Staff utilized a regional traffic simulation model that encompasses every community in the region. The model was used to identify and verify congested corridors/ areas in the region for the CMP, Corridor Studies, and Major Bottleneck Identification Studies.

### **PROCEDURES:**

#### **Congestion Management Process**

1. Continue to work with the CMP to identify and coordinate various work tasks and to ensure consistency with requirements of Transportation Management Areas. Staff will continue to attend meetings and training as appropriate since they serve as a forum for the dissemination of data produced by the system and allow personnel from other RPAs to meet and share information on data collection, data sources, etc.
2. Continue to refine the established CMP network by utilizing the region-wide traffic simulation model to identify any additional facilities on which congestion exists or is predicted; and Develop and monitor a system of performance measures and thresholds.

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3. Continue to identify areas of congestion, and measure identified congested areas on CMP corridors/ roadways/ transit/ pedestrian/ bicycle through a data collection and analysis effort, which includes, but is not limited to the following:
  - Conduct travel time, delay runs in each identified corridor, utilize INRIX. RITUS platforms, and collect traffic counts and turning movement count data, as appropriate.
  - Monitor, survey, and analyze usage at commuter parking lots throughout the region. Develop and monitor mobility and accessibility enhancement measures for the commuter parking lots within the region.
  - Extend and recalibrate the regional model for peak periods and travel time delay. Incorporate turning movement counts and phase specific signal timing information into the model.
  - Continue ongoing collection and analysis of fixed-route transit data. Also included in this process will be to conduct origin/ destination surveys of current transit ridership, walk to transit, and the development and utilization of condition measures and load factors.
  - Continue to identify, evaluate, and select strategies that address congestion, and provide administrative and technical support during the implementation of congestion management strategies.
  - Provide inputs to statewide and regional plans and transportation evaluation criteria for Transportation Improvement Programs.
  - Develop knowledge and skills, regarding the integration of goods movement. Meetings with stakeholders representing the freight community, to understand inefficiencies.
4. Continue to develop and refine congestion control strategies. Develop both general and corridor specific recommendations for relieving congestion on selected corridors.
5. Continue to evaluate performance measures that provide relevant and up-to-date information on the congestion status of transportation facilities.
6. Continue to identify bicycle and pedestrian connectivity gaps.
7. Continue ongoing assessment of the effectiveness of implemented strategies on alleviating congestion.
8. Continue ongoing monitoring and analyses that identify the underlying causes of congestion.
9. Provide analyses that consider non-traditional congestion management strategies (Transportation Demand Management, growth management, congestion pricing, traffic operational improvements, public transportation, and Intelligent Transportation System) to reduce transportation system congestion.
10. Provide in depth study of regional congestion at priority locations.

### **Pavement Management System**

1. Continue to use the pavement management software to maintain and update the Old Colony Pavement Management Program as needed. Pavement management data collection and analyses will be used to develop estimated costs associated with regional pavement conditions and needs. This information is to support the inclusion of pavement projects in the TIP and will aid in the development of realistic estimates of costs to the Region, particularly while developing the LRTP. Staff will update the PMS database to reflect the expansion of the federal aid eligible mileage due to the reclassification of roads and inclusion of new member communities. Pavement management tasks include:
  - Conducting windshield surveys to determine severity and extent of pavement distresses.
  - Developing conditions analysis and recommended repairs and costs, and reports to municipalities.
  - Developing a system of performance measures and thresholds.

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2. Provide technical assistance to member communities interested in the Pavement Management Program.
3. Meet with MassDOT, RPAs, and committees to coordinate regional and statewide efforts and to compare programs and strategies for improvement of data collection, analysis, and assistance to local communities.

### **Safety Management System**

1. Develop and work with the SMS to identify and coordinate various work tasks and prepare and participate in Road Safety Audits. Staff will continue to attend meetings (such as SHSP and TRCC, etc.), and training as appropriate since they serve as a forum for the dissemination of data produced by the system, and allow personnel from other RPAs to meet and share information on data collection, data sources, etc.
2. Review local and state crash data for intersections and corridors. Calculation of crash rates (crashes per million entering vehicles and crashes per hundred million miles) and comparison to both State and District Averages will be conducted. For corridors, the crashes per lane mile and fatality per lane mile will be used. Produce a "Top 100" crash locations list, including both intersections and corridors, based on regional criteria to develop a list of unsafe locations from a regional perspective.
3. Conduct RSAs and develop both site specific and generalized recommendations to address safety deficiencies. This will include recommendations regarding geometric, speed reductions, traffic calming techniques, vegetation clearing, signage consolidation, pavement markings, pedestrian ramps and crossings, roundabouts, and signalizations, as appropriate.
4. Incorporate safety criteria in the transportation evaluation process used in the development of the TIP. Project specific recommendations will be discussed with local, regional, and state officials as appropriate, to address safety issues and concerns.
  - Provide administrative and technical support during the implementation of safety management strategies.
  - Provide safety inputs to statewide and regional plans and TIPs.
5. Continue to develop and refine safety strategies and develop both general and corridor specific recommendations for addressing safety on selected corridors.
6. Develop a system of performance measures and thresholds, and document results of implemented safety measures. Such measures may include percent reduction in crash rate, percent reduction in the number of injury crashes, and percent reduction in crashes involving fatalities. Improve methods for compiling and retrieving crash data through utilization of GIS and through the improvement of information sharing with local, State, and Federal partners.
7. Continue to measure identified safety at high hazard locations through a data collection effort, which includes, but is not limited to the following:
  - Conducting turning movement counts, vehicle volume studies, vehicle speed studies, vehicle classification studies and pedestrian studies.
  - Continuing to identify, evaluate, and select strategies that address safety.
  - Updating status of performance measures at locations where safety improvements have been implemented.

### **Travel Demand Modeling**

1. The products developed from the model, i.e., the existing and future year scenarios used for network analysis of air quality and travel demand will be reviewed, evaluated, and utilized as part of any changes/ updates to the LRTP and TIP.

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2. Continue to refine and update the Old Colony travel demand model to include the block group demographic data from U.S. Census; contract with consultant as needed; this information will be used to calibrate the model (this may include utilizing consultants under contract).
3. Continue to collect/ compile, update traffic count data, and adjust as necessary to refine the accuracy of the model.
4. Develop external zones from external stations on the fringe areas of the region to improve the calibration of the existing conditions as appropriate.
5. Utilize the refined and calibrated model for analyzing alternatives in the development and refinement of the Long-Range Transportation Plan and other transportation or corridor studies (this may include utilizing consultants under contract).
6. Analyze forecast information to identify deficiencies as required for the LRTP and Air Quality Conformity. Evaluate improvement strategies. Incorporate findings in the LRTP as appropriate.
7. Assist MassDOT in the preparation of statewide modeling efforts as needed. Integrate the U.S. Census Block Group data and MassDOT Road Inventories Files into TransCAD model for use with the statewide travel demand model.
8. Continue work on developing the transit network model as appropriate.
9. Collect data on existing services provided by the MBTA, BAT, and GATRA. This data collection will include route and service information provided by the respective transit providers as appropriate.
10. Collect data on needs for transit services across region. Data will be collected using a variety of techniques such as ridership surveys origin/ destination, license plate surveys, and mode split analysis as appropriate.

### **PRODUCTS:**

#### **Congestion Management Process**

Annual Management System Reporting will be prepared; Data collection, intersection data survey, roadway refinement, proposal strategies, progress report preparation, and congestion management team support; In-depth study of regional congestion at priority locations; Consistency with CMP requirement of Transportation Management Areas; Transportation Evaluation Criteria inputs; Locations for expansion of existing Park and Ride Lots; Locations for additional Park and Ride Lots; Establishment of Performances Measures and thresholds; and Measures to reduce greenhouse gas emissions, VMT, and congestion.

#### **Pavement Management System**

Annual Management System Reporting will be prepared; Continue data collection, analysis, and cost estimates for federal aid eligible roadways in the region and use of said data in evaluation of projects to be programmed in the TIP; Database refinement and information for incorporation into GIS; Operations and maintenance cost to maintain the federal aid roadway network; Technical assistance to local communities; and Establishment of Performances Measures and Thresholds, and Transportation Evaluation Criteria inputs.

#### **Safety Management System**

Annual Management System Reporting will be prepared; Road Safety Audits; Top 100 High Hazard Intersections and Corridors; Development of specific-safety recommendations for intersections, corridors, and pedestrian crossings; Inclusion of safety analyses as a component of the Transportation Evaluation Criteria in the development of the TIP; Establishment of Performances Measures and Thresholds; and Identification of safety specific projects for the Old Colony Region.

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## Travel Demand Modeling

A completed refined/ recalibrated transportation model for the Old Colony region that can be expanded upon as needed, utilized for travel demand estimation, and forecasting; and Updated network models for the Old Colony region, and refinement of the Traffic Analysis Zones.

## SCHEDULE:

Management Systems and processes, and travel demand modeling to be carried out throughout the year. Annual Reports, Road Safety Audits, and analyses to be completed by end of September 2022.

## FUNDING:

FHWA PL	MassDOT					TOTAL
\$76,800	\$19,200					\$96,000



## **DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)**

### **TASK 3000 - SHORT- AND LONG-RANGE TRANSPORTATION PLANNING ACTIVITIES**

Task 3000 charts the direction for major transportation development activities in the region. As such, it is concerned with continuously updating projects dealing with the demand for transportation; development of a transportation plan which encompasses a Long-Range Element and a Short-Range Element, both incorporating the concept of Transportation Systems Management; a further detailing of the broad findings and recommendations of the Plan in plan refinement; and special purpose plans addressing such items as air quality, energy, and seniors and individuals with disabilities.

Task 3100 - Regional Traffic Studies, ITS, and Intermodal Planning

Task 3200 - Local Highway Transportation Technical Assistance

Task 3300 - Road Safety Audits (RSAs) at Multiple Locations

Task 3400 - High Priority Corridor Study Screening Process

Task 3400 - Freight Planning and Action Plan

Task 3600 - Performance Based Planning and Management

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## TASK 3100 - REGIONAL TRAFFIC STUDIES AND INTERMODAL PLANNING

### OBJECTIVE:

To provide planning services for highway, bicycle, pedestrian, transit, and movement of goods in the region designed to address immediate traffic and safety problems. The LRTP identifies deficiencies in the region's transportation network. The deficiencies are shown in the plan including deficient bridges, dangerous intersections, congested highway corridors, and overcrowded transit facilities. Where projects have not been developed to correct these deficiencies, studies and intermodal planning will have to be undertaken to evaluate each problem in detail and to recommend the appropriate solution.

To provide a comprehensive inventory of roadway facilities that interact with the regional hydrologic network, including the condition, type, location, function, surrounding conditions, and environmental attributes of these facilities. Forthcoming EPA Phase II Stormwater Regulations will require communities to locate and map their roadway stormwater infrastructure.

To update an assessment of vulnerabilities and risks that climate change, and/ or extreme weather event pose to critical transportation infrastructure.

Staff will conduct traffic studies and intermodal planning to assist member communities and agencies in developing the appropriate solutions for any identified local transportation deficiencies. Staff also anticipates undertaking traffic studies at selected intersections and along selected roadway corridors identified in the Old Colony LRTP or as part of the CMP, as warranting further study.

### PREVIOUS WORK:

2011 Major Bottleneck Study (Plymouth Route 3 at Exit 6, East Bridgewater Central Square, and West Bridgewater Route 106); 2012 Major Bottleneck Study (Bridgewater Route 104 and Stoughton Route 138); 2013 Major Bottleneck Study (Stoughton Central Street and Avon Harrison Boulevard); 2014 Southwest Brockton Corridor Study; 2014 Regional Freight and Goods Movement Study; Route 53 Corridor Study; Route 58 Corridor Study; Route 106 Corridor Study; Route 123 Corridor Study; 2020 Route 139 Corridor Study; 2020 Main Street Brockton Corridor Study; Stoughton Square By-Pass Study; Stoughton Square Origin - Destination Study; Bridgewater Center Circulation Study; Bourne Road Corridor Study; 2013 participation in development Regional Intelligent Transportation System Architecture for the Metro Boston Area and Southeastern Massachusetts Area; 2007 Old Colony ITS Plan; Complete Streets Technical Assistance; Safe Route to School (SRTS) Technical Assistance; South Coast Rail Technical Assistance; Climate Change Transportation Impact Study; Climate Change Roadway Drainage and Runoff Program; and Avon and Halifax Stormwater Management System Mapping and Database.

### PROCEDURES:

1. The following is an illustrative list of potential projects that could be undertaken as part of this task:
  - Bicycle and Pedestrian Planning, Levels of Service, Technical Assistance, and Education
  - Brockton Area Transit Planning and Technical Assistance
  - City/ town center circulation studies
  - Climate change adaptation strategies to enable the region to implement improvements
  - Collection and mapping of data on bus stops, routes, and ridership
  - Complete Streets Technical Assistance
  - Crash and Safety Studies
  - Development knowledge and skills, regarding the integration of goods movement

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- Follow-up studies to the Congestion, Land Use, Pavement, and Safety Management Systems
  - Freight Plan and Related Analyses
  - Meetings with stakeholders representing the freight community, to understand inefficiencies
  - Geographic analyses and attribute analyses of drainage facilities that includes capacity and adequacy structures regarding extreme weather events and climate change
  - Identification and demarcation of roadway drainage and stormwater management systems
  - Identify transportation connectivity gaps in accessing essential services
  - Intermodal Connector Analysis
  - Inventory of critical infrastructure vulnerable to extreme weather events and climate change
  - Inventory of gaps within the regional bicycle network
  - Intersection sub-area studies
  - Public Health Assessments
  - Regional Casino/ Gaming Impact Study
  - Regional Intersection Study
  - Safe Routes to School (SRTS) Technical Assistance
  - Trip Generation Study
  - Various corridor-wide traffic studies and Sub-area Traffic Studies
2. Efforts will include undertaking transportation studies at locations and developing specific reports as products for intermodal connectors as requested by local communities, FHWA, FTA, and/ or MassDOT. Staff will work with community officials, MassDOT, and MassDOT District 5, and stakeholders to develop a scope of service for the proposed study.
  3. For each corridor study, staff will prepare a draft report, which outlines the Study's findings and recommendations. This report will be circulated for review and comment. Comments will be incorporated into a final report. The findings and recommendations contained in the final report will serve as the basis for including projects in the region's TIP and LRTP.
  5. Conduct public health assessments and consider public health outcomes as part of ongoing planning and performance measures planning; and Assist communities in advancing bicycle and pedestrian projects into the MassDOT Highway Division project development process.
  6. Promote bicycle and pedestrian initiatives in the region; Develop bikeability measures and/ or quality of service metrics; and Coordinate activities within the MassDOT's bicycle and pedestrian planning efforts.

### **PRODUCTS:**

Bicycle and Pedestrian Planning and Technical Assistance; Inventory of gaps within the regional bicycle network; Brockton Area Transit Planning and Technical Assistance; Complete Streets Technical Assistance; South Coast Rail Technical Assistance; Studies to identify solutions to traffic congestion and safety deficiencies on roadways within the region; Livability Measures; Performance Measures; Walk to Transit Analysis; Safe Routes to School Technical Assistance; Bicycle and Pedestrian Planning, Levels of Service and Education; Participation in updates to Regional Intelligent Transportation System Architectures; Climate Change Roadway Drainage and Runoff Report with recommendations for consideration for future

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implementation; Inventory of critical infrastructure vulnerable to extreme weather events and climate change; Stormwater management system mapping; Bikeability measures and/ or quality of service metrics; and Climate Change Adaptation.

### SCHEDULE:

To be carried out throughout the year.

### FUNDING:

FHWA PL	MassDOT					TOTAL
\$60,000	\$15,000					\$75,000

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<b>TASK 3200 - LOCAL HIGHWAY TRANSPORTATION PLANNING TECHNICAL ASSISTANCE</b>
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**OBJECTIVE:**

To provide a rapid and effective response mechanism to address special, short-term transportation issues and/or projects as they arise. This will include the development, upon request from communities, regional authorities, state agencies, and federal agencies, of detail technical data, analyses, and reports that will assist in improving the region's transportation infrastructure.

**PREVIOUS WORK:**

Route 123/Linwood/ Lorraine/ VA Hospital/ and Manley Streets Intersection analysis in Brockton; Washington Street (Route 138) and Elm Street Intersection Study in Easton; Route 138 and Route 106 Intersection Study in Easton; Elm Street and Furnace Street in Halifax; Long Pond Road Speed Study in Plymouth; West Bridgewater Route 106 at Howard Street Traffic Study; Brockton Main Street RSA; Kingston Smith's Lane Traffic Study; Pembroke Mattakeesett Traffic Study; Pembroke and Duxbury Heavy Vehicle Pattern Study; Halifax Route 36 at Oak Street Safety Study; West Bridgewater South Street Safety Study; Plymouth Safe Routes to School Study; Stoughton Hansen School Circulation Study; East Bridgewater Summer Street at Belmont Street RSA; Pembroke Route 53 at Route 139 Traffic Study; Samoset Street Plymouth RSA, Nelson Street and Water Street Plymouth RSA; Route 27 Hanson RSA; Bay Road at Boulder Lane Stoughton/ Sharon RSA; Pembroke Plain Street and Lake Street Study; Plymouth Standish at Alden Street Study; Plymouth Standish at Cherry Street Study; Abington Hancock Street at Chestnut Street RSA; and numerous other transportation studies requested by communities.

**PROCEDURES:**

1. Provide technical planning analysis assistance to communities and MassDOT on highway, pedestrian, and bicycle transportation planning related matters in the form of meetings, data, analyses, and reports. The staff shall perform work on specific short-range highway planning tasks including but not limited to: Intersection and capacity analysis; Road Safety Audits; SYNCHRO analysis; Walk to transit analysis; Crash analysis; Air quality analysis, both commuter and municipal parking analysis; Carpool/vanpool analysis; Trip generation estimation analysis; Sight distance analysis; Traffic impact analysis of proposed developments; Traffic analysis studies; and Other short-range studies to determine the need for traffic signals, traffic signs, traffic markings and the use of one-way streets.

**PRODUCTS:**

Local Technical Assistance Reports/ documents will be prepared. Included in these reports/ documents will be data, analyses, and improvement recommendations (location improvements, speed zoning, heavy vehicle exclusions, etc.) for implementation, and inclusion in MassDOT Project Information Forms, as appropriate.

**SCHEDULE:**

To be carried out throughout the program year.

**FUNDING:**

FHWA PL	MassDOT					TOTAL
\$68,000	\$17,000					\$85,000

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## TASK 3300 - ROAD SAFETY AUDITS (RSAs) AT MULTIPLE LOCATIONS

### OBJECTIVE:

To conduct Road Safety Audits (RSAs) at multiple locations (approximately 20) throughout the region at high crash locations. To reduce the number of crash-related fatalities and incapacitating injuries, Massachusetts Department of Transportation has developed a Strategic Highway Safety Plan. The mission of the Safety Plan is to “Develop, promote, implement, and evaluate data-driven, multidisciplinary strategies to maximize safety for users of the roadway system.” One of the many strategies noted in the current Safety Plan is to “conduct Road Safety Audits at high-crash locations throughout the Commonwealth.” A Road Safety Audit, as defined by the Federal Highway Administration (FHWA) is “a formal safety performance examination of an existing or future road or intersection by an independent audit team.” Simply stated, an RSA is a relatively quick process that identifies safety improvements focused on decreasing the number and severity of roadway crashes. The safety improvements recommended typically vary from low-cost measures to significant improvement projects. Many States that have employed the RSA technique and implemented the recommendations, have seen measurable decreases in the number of incapacitating and fatal crashes as a result.

This task consists of a systematic process that has the goal of reducing the number of and severity of traffic crashes on roads, reducing transit crashes, reducing pedestrian crashes and injuries, and reducing bicyclist crashes and injuries. Recommended actions include providing information for selecting and implementing effective safety strategies and projects. Results of the Road Safety Audits will be included in the ongoing safety management system that incorporates roadway, human, and vehicle safety elements. Considered an ongoing effort, staff will collect and maintain data needed in the estimation of refined performance measures and the completion of road safety audits. Staff will identify both existing and future needs of the region’s multi-modal transportation system regarding safety. This includes producing a “Top 100” crash locations list, including both intersections and corridors, based on regional criteria to develop a list of unsafe locations from a regional perspective, annual regional listings and monitoring of high hazard intersections and corridors, participation and implementation of the Strategic Highway Safety Plan and the Highway Safety Improvement Program, and evaluation of potential improvements.

### PREVIOUS WORK:

Participation in development of Highway Safety Improvement Program; Safety analyses as part of Transportation Evaluation Criteria application; Crash Rate processing; Top 100 High Hazard Intersections; Road Safety Audits (RSAs); and Studies for communities warranting specific attention to safety.

### PROCEDURES:

1. Develop and work with the Safety Management System (SMS) to identify and evaluate high crash locations and coordinate various work tasks and prepare and participate in Road Safety Audits. Staff will continue to attend meetings (such as SHSP and TRCC, etc.), and training as appropriate since they serve as a forum for the dissemination of data produced by the system, and allow personnel from other RPAs to meet and share information on data collection, data sources, etc.
2. Review local and state crash data for intersections and corridors. Calculation of crash rates (crashes per million entering vehicles and crashes per hundred million miles) and comparison to both State and District Averages will be conducted. For corridors, the crashes per lane mile and fatality per lane mile will be used. Produce a “Top 100” crash locations list, including both intersections and corridors, based on regional criteria to develop a list of unsafe locations from a regional perspective.

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3. Conduct Road Safety Audits (RSAs), utilizing the MassDOT RSA Guidelines, and the MassDOT RSA Report Template, at multiple locations as a formal safety review of an existing, or planned road or intersection. During these audits, an independent, multidisciplinary team identifies potential safety issues and opportunities for safety improvements. In addition, the team develops both site specific and generalized recommendations to address safety deficiencies. This includes recommendations regarding geometric, speed reductions, traffic calming techniques, vegetation clearing, signage consolidation, pavement markings, pedestrian ramps and crossings, roundabouts and signalizations, as appropriate. Staff will utilize the Manual on Uniform Traffic Control Devices, the MassDOT Project Development and Design Guidebook, and the Governor’s Highway Safety Bureau.
4. Incorporate safety criteria in the transportation evaluation process used in the development of the TIP. Project specific recommendations will be discussed with local, regional, and state officials as appropriate, to address safety issues and concerns.
  - Provide administrative and technical support during the implementation of safety management strategies.
  - Provide safety inputs to statewide and regional plans and TIPs.
5. Continue to develop and refine safety strategies and develop both general and corridor specific recommendations for addressing safety on selected corridors.
6. Continue to measure identified safety at high hazard locations through a data collection effort, which includes, but is not limited to the following:
  - Conducting turning movement counts, vehicle volume studies, vehicle speed studies, vehicle classification studies and pedestrian studies.
  - Continuing to identify, evaluate, and select strategies that address safety.
  - Updating status of performance measures at locations where safety improvements have been implemented.

**PRODUCTS:**

Road Safety Audits; Top 100 High Hazard Intersections and Corridors; Development of specific-safety recommendations for intersections, corridors, and pedestrian crossings; Inclusion of safety analyses as a component of the Transportation Evaluation Criteria in the development of the TIP; Establishment of Performances Measures and Thresholds; and Identification of safety specific projects for the Old Colony Region.

**PRODUCT:**

Road Safety Audits; Top 100 High Hazard Intersections and Corridors; Development of specific-safety recommendations for intersections, corridors, and pedestrian crossings; Inclusion of safety analyses and countermeasures for implementation as a component of the Transportation Evaluation Criteria, and for inclusion in MassDOT Project Initiation Form Data for MaPIT in the development of the TIP; Establishment of Performances Measures and Thresholds; and Identification of safety specific projects for the Old Colony Region.

**SCHEDULE:**

To be carried out throughout the year and completed by the end of September 2022.

**FUNDING:**

FHWA PL	MassDOT					TOTAL
\$70,561	\$17,640					\$88,201

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## TASK 3400 - HIGH PRIORITY CORRIDOR STUDY SCREENING ASSESSMENT

### OBJECTIVE:

Addressing and alleviating congestion and improving safety enhances the mobility of all users. During the development of the Old Colony 2020-2024 Long Range Transportation Plan (LRTP), the staff identified the existing needs for all transportation modes in the region. The results were compiled and then used to guide the MPO's decision-making process for selecting transportation projects.

The objective of this task is to conduct a High Priority Corridor Study Screening Assessment of State Numbered Routes (arterial segments) that will identify, rank, and inform the selection process for locations to conduct corridor studies that will then inform the Long-Range Transportation Plan Needs Assessment.

The corridor studies undertaken in future UPWPs will provide short term and long-term recommendations and strategies that seek to enhance circulation, mobility, and traffic flow efficiency, improve safety, improve bicycle and pedestrian accommodation, and assist with the attainment of adopted performance measures and targets. By focusing on arterial segments rather than intersections, planners can evaluate multimodal transportation needs comprehensively. A holistic approach to analyzing problems and forming recommendations ensures that the needs of all transportation users are considered.

### PREVIOUS WORK:

Congestion Management Process; Regional Traffic Count Program; Level of Service Analyses; Regional Corridor Studies; Access Management Plan; Long Range Transportation Plans; 2011 Major Bottleneck Identification Study; 2011 Major Bottleneck In Depth Analysis Study; and, 2012 Major Bottleneck In Depth Analysis Study; 2013 Major Bottleneck In Depth Analysis Study; Route 123 Corridor Study; Route 139 Corridor Study; Southwest Brockton Corridor Study; Route 28 Corridor Study; Climate Change Transportation Vulnerability Assessment.

### PROCEDURES:

The process for selecting study locations consists of three steps.

- Gathering and assembling data about the arterial segments and then using the data to identify and prioritize them.
  - Examining the arterial segments more closely by applying specific criteria.
  - Staff scoring each arterial segment and assigning a priority of low, medium, or high to each segment.
1. Arterial Segment Identification, Documentation, and Existing Conditions: Develop documentation of existing conditions through in-depth analysis of state number route corridors. The process shall utilize the CMP, SMS, LUMS, the 2020 LRTP, Regional Travel Demand Models, Travel Time Studies, and Corridor Studies. All relevant and attainable data will be collected and reported during this phase of the project. Data, such as, average daily traffic, peak period volumes, and levels of service, crashes rates, trip generators, land uses, bus routes, will be catalogued, summarized, and ranked. The data compiled for the existing conditions will be tested to document the deficiencies along the facilities, and to identify their causes and their impact on traffic flow, and accessibility.



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Identify arterial segments on state numbered routes in the region based on the following data sources:

- The Massachusetts Department of Transportation (MassDOT) Road Inventory File and crash portal to assemble the following information for each arterial segment: roadway jurisdiction, National Highway System status, average daily traffic (ADT), crash clusters, high-crash locations, and crash rates.
  - The MPO's CMP data on arterial congestion to determine average travel speeds, travel-time index (travel time in the peak period divided by travel time at free-flow conditions), travel time and speed index (average travel speed divided by the speed limit) on each arterial segment.
  - Data on gaps in the bike network and data on the location of bike facilities to identify needs for the bicycle mode, including locations where connectivity between bicycle facilities could be improved and where bicyclists' accommodations could be improved.
  - Data on arterials vulnerable to climate change and extreme weather events.
  - Data on BAT, GATRA, and MBTA bus routes, subway lines, and commuter rail lines to identify which arterial segments serve buses or stations.
  - Data on BAT, GATRA, and MBTA bus service performance and passenger load to determine the percentage of bus trips that do not adhere to the schedule (in other words, that provide late service) or do not adhere to passenger load standards (resulting in crowding).
  - Data on the Environmental Justice (EJ) transportation analysis zones to identify areas of concern as relates to environmental justice.
  - Data selected from MassDOT's project-information database, the FFY 2022-2026 TIP projects, planning studies and other studies, and municipal websites were used to obtain data on projects, studies, and TIP projects that are planned or programmed for each arterial segment.
2. Arterial Segment Examination and Scoring: Examine the arterial segments closely by applying the following six criteria and assigning points based on the number of criteria that apply to each location. Staff will then rate arterial segments with a total score of 10 or fewer points as low priority; those with a score of 11 to 12 points as medium priority; and those with a total score of 13 or more points as high priority.
- Safety Conditions, 0–4 points (each of the four criteria is worth one point)
    - Location has a higher-than-average crash rate for its functional class
    - Location contains an HSIP-eligible crash cluster
    - Location is identified in the Massachusetts Top High Crash Locations Report
    - Location has a significant number of pedestrian and bicycle crashes per year (two or more per mile) or contains one or more HSIP-eligible bike-pedestrian crash cluster
  - Congested Conditions, 0–2 points (each of the two criteria is worth one point)
    - Travel-time index is at least 1.3
    - Travel-time index is at least 2.0
  - Multimodal Significance, 0–3 points (each of the three criteria is worth one point)

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- Location currently supports transit, bicycle, or pedestrian activities
- Location needs to have improved transit, bicycle, or pedestrian facilities
- Location has a high volume of truck traffic serving regional commerce
  
- Regional Significance, 0–4 points (each of the four criteria is worth one point)
  - Location is in the National Highway System
  - Location carries a significant portion of regional traffic (ADT is greater than 15,000)
  - Location lies within 0.5 miles of an EJ transportation analysis zone
  - Location is essential for the region’s economic, cultural, or recreational development
  - Location is vulnerable to climate change and extreme weather events
  
- Regional Equity, 0–2 points (each of the two criteria is worth one point)
  - Location is in an area for which there has not been a corridor study
  - Location is in an area for which there has not been a corridor study in the previous three years
  
- Implementation Potential, 0–3 points (each of the three criteria is worth one point)
  - Location is proposed or endorsed for study by the agency that administers the roadway
  - Other stakeholders strongly support improvements for the location
  
- 3. Prepare Conclusions and Recommendations: The product is an assessment that provides a framework for the alleviation traffic congestion, improvement of safety, and elevation of access throughout the region, informs the LRTP Needs Assessment, and provides a prioritized listing of locations to be further studied in future UPWPs.

**PRODUCT:**

Preparation of the High Priority Corridor Study Screening Assessment.

**FUNDING:**

FHWA PL	MassDOT					TOTAL
\$48,000	\$12,000					\$55,000

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## TASK 3500 - FREIGHT PLANNING AND ACTION PLAN

The freight planning efforts are ongoing and largely based on a series of studies being conducted to help integrate freight-related goals into the regional long range transportation planning process. The freight industry and the movement of goods plays an important role in the success of our local economy and this task aims to illustrate, understand, and accommodate the movement of freight in, around, and through our region.

Importantly, the national performance goal for freight movement and economic activity are considered and embraced by the MPO. The goal is to improve the nation's freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development; and support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency. The MPO applies specific criteria in the review of transportation strategies. These criteria are applied to changes of delay and emissions. Reduction in traffic delay has a direct consequence on economic vitality both through the timely arrival of commuters and goods and reduction in fuel expenses and losses due to air pollution. The LRTP directly supports these efforts through the goal: "Promote Policies that Ensure Economic Vitality and Sustainability." The MPO directly supports regional productivity through its economic development mission manifested in the Regional Policy Plan, including support of the federally approved Old Colony Comprehensive Economic Development Strategy (CEDS) priority projects.

### **OBJECTIVE:**

The principal objectives of this study are to build a foundation to formally integrate freight into the overall planning process, to identify and plan for long-term freight needs, to develop specific long-range transportation projects, identify potential funding sources for those projects, and evaluate policy-based solutions to accommodate future levels of freight on our regional transportation system while protecting the mobility and safety of the traveling public. This plan will be a follow up to the 2014 Regional Freight & Goods Movement Study, the 2014 NHS Intermodal Connectors Study, and will build upon the findings and recommendations from MassDOT's 2018 Freight Study.

Staff will utilize NCHRP's Guidebook for Freight Policy, Planning, and Programming in Small- and Medium-Sized Metropolitan Areas as its roadmap to develop the freight plan and to establish a freight program for the agency. This resource has already proven to be an asset.

### **PREVIOUS WORK:**

Regional Truck Route Identification Study, Long Range Transportation Plans, Regional Policy Plan, Congestion Management Process, Land Use Management System, Safety Management System, Pavement Management Systems, Regional Freight & Goods Movement Study, NHS Intermodal Connectors Study, Road Safety Audits.

### **PROCEDURES:**

1. Establish the basis for subsequent freight planning and developing a regional freight profile.
2. Identify quick-action freight related strategies, policies, and projects specific to the region that could be implemented into the MPO's plans and programs.
3. Consider existing PM3 Truck Travel Time Reliability (TTTR) performance measures and targets.
4. Inventory Weight and Height Restrictions.

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5. Review and analyze Rest Locations for Long-Distance Truck Drivers
6. Predict future freight traffic volumes through the year 2050.
7. Identify areas likely to see future capacity constraints and infrastructure deficiencies
8. Identify possible traffic bottlenecks and safety concerns
9. Evaluate the costs and benefits of potential improvements

**PRODUCT:**

Development of Freight Planning and Action Plan.

**SCHEDULE:**

To be carried out throughout the year and completed by September 2022.

**FUNDING:**

FHWA PL	MassDOT					TOTAL
\$48,000	\$12,000					\$60,000

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### TASK 3600 - PERFORMANCE BASED PLANNING AND MANAGEMENT

The cornerstone of the Federal transportation program transformation is the implementation of a performance-based outcome program. States and regions invest in projects to achieve targets that collectively will make progress towards national goals. Therefore, the objective is to develop performance measures and targets for the Old Colony Region for utilization in the planning process and inclusion in the Long-Range Transportation Plan. Projects and service implemented through the TIP will help to achieve the performance targets for Safety (PM1), Bridge and Pavement Condition (PM2), System Performance Measures (PM3), Public Transportation Agency Safety Plan (PTASP), and Transit Asset Management State of Good Repair.

Performance based planning and management increases the accountability and transparency of the Federal-aid highway program and provides for a framework to support improved investment decision making through a focus on performance outcomes for key national transportation goals. The FAST Act supports and continues an overall performance management approach, within which states invest resources in projects that collectively will make progress toward national goals.

The national performance goals for the Federal highway program include:

- Safety - To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.
- Infrastructure condition (pavement, bridge, and transit) - To maintain a highway and transit infrastructure asset system in a state of good repair.
- Congestion reduction - To achieve a significant reduction in congestion on the NHS.
- System reliability - To improve the efficiency of the surface transportation system.
- Freight movement and economic vitality - To improve the nation 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.
- Resiliency and Reliability of the Transportation System - improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.
- Travel and Tourism - Enhance travel and tourism.

In March 2016, FHWA published rules on safety performance measures and integration of performance management into the Highway Safety Improvement Program (HSIP). In May 2016, FHWA and the FTA published a rule implementing changes to the planning process.

In January 2017, FHWA published the final rules for the last two national performance management measure regulations. One rule establishes regulations to assess the condition and performance of bridges on the NHS and of pavements on the Interstate and non-Interstate NHS. The other establishes regulations to assess the performance of the NHS, Freight Movement on the Interstate System, and the Congestion Mitigation and Air Quality Improvement Program.

Performance based planning will include working with BAT, FHWA, FTA, and MassDOT, and to establish thresholds for performance measures or goals that meet state and national criteria. The objective of

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performance measures is to ensure that investments in future transportation improvements effectively address transportation issues in a cost effective and timely manner. The goal will be to develop projects that relieve congestion, improve safety, provide efficient alternative travel choices, preserve, and maintain the existing system, promote economic development, and protect the environment. This effort will coordinate information and studies developed in other planning tasks such as, but not limited to Congestion Management, Safety Management, Pavement Management, and ITS/ Freight/ Intermodal Planning. The effort will also include MEPA reviews, gaming reviews and technical assistance, coordination of transportation planning activities with other local and state agencies, and other MPOs.

### Pavement and Bridge Condition Performance Measures Final Rule

The Pavement and Bridge Condition Performance Measures Final Rule establishes measures for State DOTs to use to carry out the National Highway Performance Program (NHPP) and to assess the condition of the following: Pavements on the NHS (excluding the Interstate System), bridges carrying the NHS that includes on-and off-ramps connected to the NHS, and pavements on the Interstate System.

State DOTs and MPOs will be expected to use the information and data generated because of the new regulations to inform their transportation planning and programming decisions.

### System Performance/ Freight/ CMAQ Performance Measures Final Rule

The System Performance/ Freight/ CMAQ Performance Measures Final Rule establishes a set of performance measures for State DOTs and MPOs to use as required by the MAP-21 and the FAST Act. The measures in this final rule will be used by State DOTs and MPOs to assess the performance of the Interstate and non-Interstate NHS for the purpose of carrying out the National Highway Performance Program (NHPP); to assess freight movement on the Interstate System; and to assess traffic congestion and on-road mobile source emissions for the purpose of carrying out the CMAQ Program.

State DOTs and MPOs will be expected to use the information and data generated because of the new regulations to inform their transportation planning and programming decisions.

### HSIP and Safety Performance Management Measures Final Rule

The HSIP and Safety Performance Management Measures Final Rules adds Part 490 to title 23 of the Code of Federal Regulations to implement the performance management requirements under 23 U.S.C. 150, including the specific safety performance measure requirements for the purpose of carrying out the HSIP to assess serious injuries and fatalities on all public roads. The Safety PM Final Rule establishes the process for State DOTs and MPOs to establish and report their safety targets, and the process that FHWA will use to assess whether State DOTs have met or made significant progress toward meeting their safety targets. The Safety PM Final Rule also establishes a common national definition for serious injuries.

### Planning Final Rule

The transition to a performance-driven, outcome-based program that provides for a greater level of transparency and accountability, improved project decision-making, and more efficient investment of Federal transportation funds. As part of this new performance-based approach, recipients of Federal-aid highway program funds and Federal transit funds are required to link the investment priorities contained in the STIP and TIP to achievement of performance targets. In a series of rulemakings, FHWA and FTA

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established national performance measures in key areas, including safety, infrastructure condition, congestion, system reliability, emissions, and freight movement.

States, MPOs, and operators of public transportation must use these measures to establish targets in the key national performance areas to document expectations for future performance. The final rule further establishes that States and MPOs must coordinate their respective targets with each other to ensure consistency to the maximum extent practicable. The final rule requires that for transit-related targets, States and MPOs must coordinate their selection of targets relating to transit safety and transit state of good repair to the maximum extent practicable with operators of public transportation to ensure consistency with other performance-based provisions applicable to operators of public transportation.

MPOs must identify how they will cooperatively implement these performance-based planning provisions with States and operators of public transportation. The final rule provides the option documenting it either as part of the metropolitan planning agreements or documenting it in some other means outside of the metropolitan planning agreements as determined cooperatively by the MPO(s), State(s), and providers of public transportation. Whichever option is selected, the MPO(s), the State(s), and the providers of public transportation must jointly agree upon and document in writing the coordinated processes for the collection of performance data, the selection of performance targets for the metropolitan area, the reporting of metropolitan area targets, and the reporting of actual system performance related to those targets. The documentation must also describe the roles and responsibilities for the collection of data for the NHS.

In the final rule, once performance targets are selected by MPOs, MPOs must reflect those targets in their MTPs. Accordingly, in their transportation plans, MPOs need to describe these performance targets, evaluate the condition and performance of the transportation system, and report on progress toward the achievement of their performance targets. States must include similar information in their transportation plans.

### Asset Management Plan Final Rule

Asset management is defined as “a strategic and systematic process of operating, maintaining, and improving physical assets, with a focus on both engineering and economic analysis based on quality information, to identify a structured sequence of maintenance, preservation, repair, rehabilitation, and replacement actions that will achieve and sustain a desired state of good repair over the life cycle of the assets at minimum practicable cost.”

### Transit Asset Management Final Rule

The FTA published a final rule to define the term state of good repair and to establish minimum Federal requirements for transit asset management that will apply to all recipients and sub recipients that own, operate, or manage public transportation capital assets. This final rule requires public transportation providers to develop and implement out transit asset management plans. TAM plans must include an asset inventory, condition assessments of inventoried assets, and a prioritized list of investments to improve the state of good repair of their capital assets. This final rule also establishes state good repair standards and four state of good repair performance measures. Transit providers are required to set performance targets for their capital assets based on the SGR measures and report their targets, as well as information related to the condition of their capital assets, to the National Transit Database.

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## Public Transportation Safety Program Final Rule

The Public Transportation Safety Program Final Rule final rule to establish substantive and procedural rules for FTA's administration of a comprehensive safety program to improve the safety of the Nation's public transportation systems. This final rule provides the framework for FTA to monitor, oversee, and enforce transit safety, based on the methods and principles of Safety Management Systems.

### **PREVIOUS WORK:**

MPO coordination, review and adoption of Statewide Performance Measures and Targets (PM1, PM2, and PM3, and Performance Measures and Targets for Public Transportation Agency Safety Plan Transit Asset Management (BAT); Long Range Transportation Plan; Regional Policy Plan; Congestion Management Process; Land Use Management System; Safety Management System; Pavement Management Systems; Road Safety Audits; and Reviews, comments, and site visits relating to Environmental Notification Forms and MEPA Environmental Impact Reports/ Environmental Impact Statements.

### **PROCEDURES:**

1. Establish and refine performance measures and thresholds for pavement conditions and performance of the federal aid network, bridge conditions, injuries, and fatalities, traffic congestion. The federal rulemaking process will establish performance measures for each of these items. As such, this does not preclude the region from establishing additional measures for use locally, and the Old Colony MPO will continue to review the supplement the performance measures developed and included in the 2020 Long Range Transportation Plan. Using information collected annually through other tasks outlined in this document, implement, and maintain a comprehensive strategy to evaluate the effectiveness of transportation improvements throughout the region.
2. Determine and set performance measures and thresholds in support of the performance measures framework and describe how program and project selection will help achieve the targets. With acceptable thresholds or targets for performance measures, staff will continue to maintain relevant data for safety, pavement, and congestion management and provide comparison analyses before and after the implementation of projects.
3. Review and comment on traffic studies submitted to member municipalities by developers under the Massachusetts Environmental Protection Agency (MEPA) process or as needed/requested for local permits. Review projects for consistency with the regional transportation goals and objectives, program consistency, etc.
4. Consider utilizing INVEST TOOL - Projects will also be potentially evaluated on their sustainability through the FHWA web-based tool known as Infrastructure Voluntary Evaluation Sustainability Tool. Although voluntary, this information will be useful to determine the long-term effectiveness of improvement projects.
5. Conduct public health assessments and consider public health outcomes as part of ongoing planning and performance measures planning.

### **PRODUCTS:**

Development and refinement of Performance Measures and Targets for the Old Colony Region; Review and comment on traffic studies submitted to member municipalities by developers under the Massachusetts Environmental Protection Agency; and Public Health Assessments. Performance



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measurement progress will be documented in the Old Colony Transportation Improvement Program, contained within relevant 3C planning documents, and summarized in the Old Colony UPWP Annual Progress Report.

### SCHEDULE:

To be carried out throughout the year and completed by the end of September 2022.

### FUNDING:

FHWA PL	MassDOT					TOTAL
\$16,000	\$4,000					\$20,000

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### **TASK 4000 - OTHER TRANSPORTATION TECHNICAL ACTIVITIES, PLANNING STAFF, FUNDING SOURCES, BUDGETS, AND TASKS**

While conducting transportation and transportation related planning activities, it is often the case that certain activities are called for which do not fit into the existing work program elements. When this is the case, those activities are programmed under the element heading of Other Transportation Technical Activities, Planning Staff, Funding Sources, Budgets, and Tasks.

Task 4100 - Transit Technical Assistance, and Seniors and Individuals with Disabilities Support

Task 4200 - BAT Planning and Technical Studies

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## TASK 4100 - TRANSIT TECHNICAL ASSISTANCE, AND SENIOR AND INDIVIDUALS WITH DISABILITIES SUPPORT AND ASSISTANCE

### OBJECTIVE:

To respond to short-range transit planning needs upon request from communities, BAT, GATRA, MassDOT, and MBTA. To maintain an understanding of the region's transit system to provide an accurate basis for future forecasting, planning and program analysis, and project evaluation.

To maintain and update the Coordinated Public Transit - Human Service Transportation Plan.

To ensure the accessibility to public transit services for seniors and individuals with disabilities; Attend meetings of the senior and disability committees; Provide technical assistance to BAT, GATRA, region's municipalities, human service agencies, Councils on Aging, private non-profit agencies, and other parties involved in meeting special transportation needs.

To provide Community Transit Grant support, technical assistance, related coordination.

To maintain and operate a Congestion Management Process.

### PREVIOUS WORK:

BAT - Aging in Place Studies; Comprehensive Regional Transit Plan; Fare Elasticity and Equity Study; Fixed Route Ridership Analyses; Service Change Equity Analysis; Title VI Studies; Air quality analysis for CMAQ and Transportation Demand Management proposals; Rockland Transit Feasibility Study; System Time Study; Route 2A Analysis; Abington Transportation Study; Paratransit Expansion; Brockton -Taunton Fixed Route Options Study; Regional Coordinating Committee participation; and Human Services Coordination Plan.

GATRA - Ridership analysis; Human Services Coordination Plan.

Other - Assisted Communities, COAs and other public and private agencies with the Section 5310, 5317, and MAP; Transit Directories; RTA Fare Comparison; Queset Commons Transit Study; Rockland Transit Study; Senior and Individuals with Disabilities Neighborhood Sourcebook; Technical assistance to public and private non-profit organizations in preparing Federal Transit Administration applications for Section 5310, and Mobility Assistance; Regional map showing the locations with high density of senior population (60+); Compilation of U.S Census data of senior population; Air quality analysis for CMAQ proposals; Abington Transportation Study; Human Services Coordination Plan; and Community Transit Grant support, technical assistance, and related coordination.

### PROCEDURES:

1. Provide technical planning assistance to transit providers and member communities on transit matters. This assistance may take the form of assistance in meeting federal reporting requirements and in assessing and evaluating routes; Title VI update; Fare change and service change equity analyses; Schedule and fare changes; Assessment of human and capital needs; Provide and improve BAT's analytical and forecasting capabilities; Assist BAT with the Americans with Disabilities Act Plan update; Title VI Trend Analysis; and Service Area Demographic Trend Profiles.
2. Provide technical planning assistance to area communities outside the transit authority service areas, on transit matters. This assistance can take the form of helping the communities in: Assessing

## DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

potential membership in a transit authority; Assisting the communities in providing for private carrier service; Identifying and assessing park-and-ride lots; Assessing commuter rail lots; Encouraging private enterprise participation; and Census and journey-to-work technical assistance, etc.

3. Prepare information as needed for FTA reports, State Implementation Plan submissions, MassDOT reports, and other required reporting.
4. Provide transit inputs into regional transit and transportation modeling efforts, and conduct air quality analysis as needed for transit projects.
5. Continue to aid and guidance to applicants for Community Transit Grant Program in preparing applications and coordinating service.
6. Provide technical assistance to public and private non-profit agencies in the development, maintenance, and expansion of senior and/ or individuals with disabilities services in the region.
7. Continue to provide support for the replacement of paratransit vehicles.
8. Develop updates for the Coordinated Public Transit Human Service Coordination Plan in coordination with communities, transit providers, and regional coordination committees, as appropriate.
9. Operate and maintain a Congestion Management Process.
10. Conduct public health assessments and consider public health outcomes as part of ongoing planning and performance measures planning.
11. Collection and mapping of data on bus stops, routes, and ridership.

**PRODUCTS:**

Provide technical assistance to BAT, GATRA, MBTA, SSCAC, and to area communities as needed; Develop information for compliance with federal and state requirements for the TIP; BAT/ GATRA (Brockton/ Taunton) Intercity Feasibility Study; Coordinated Public Transit - Human Service Coordination Plan Updates; Community Transit Grant Program support and technical assistance; and Travel Demand Model, and LRTP updates, as appropriate.

**SCHEDULE:**

To be carried out throughout the year.

**FUNDING:**

FHWA PL	MassDOT					TOTAL
\$32,000	\$8,000					\$40,000

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## TASK 4200 - BAT PLANNING, TECHNICAL ASSISTANCE, AND STUDIES

### OBJECTIVE:

To provide transit-planning services, prepare technical studies, comprehensive service assessments, and aid in other planning related activities that are called for during the year which presently are not specifically identified in work program.

### PREVIOUS WORK:

BAT Aging in Place Studies; BAT Comprehensive Regional Transit Plan (CRTP); BAT fixed-route ridership analyses; Brockton Area Transit Farebox Analyses; Title VI Reports; BAT Service Change Equity Study: BAT Fare Equity and Elasticity Study; Air quality analysis for CMAQ and Transportation Demand Management proposals; Route 2A Study; Rockland Transit Feasibility Study; System Time Study; Abington Transportation Study; Brockton-Taunton Fixed Route Options Study; and Human Services Coordination Plan.

### PROCEDURES:

1. Develop a detail study(s) design/ estimated work time effort and cost for planning tasks requested by Brockton Area Transit. The following is a list of planning/ projects that could be undertaken as part of this task: Americans with Disabilities Act Plan Update; Route Evaluation Study/ Survey; Fare Increase Analysis; Service Change Study; Title VI Report; Title VI Trend Analysis; Transfer Study; Demographic/ Urban Area Analysis; Manley Street Industrial Park Route Analyses; Technical assistance to BAT, as needed, on the Intermodal Facility; Avon/ Stoughton Route extension planning; Fare Modeling Study; Massasoit Study; Comprehensive Regional Transit Plan (CRTP); Planning assistance and alternatives analyses as identified in the CRTP; and Stoughton Fixed Route Study.
2. Prepare analyses, reports, maps, charts, as appropriate.
3. Coordinate with BAT on the identification and prioritization of potentially needed rider amenities.
4. Undertake planning, studies, and comprehensive service assessments in accordance with study requirements and available funding.

### PRODUCTS:

Fixed Route Evaluation Study; Fixed Route Ridership Report; Fare Change Equity Study; Service Change Equity Study; South Shore Medical Transportation Options Study; Avon/ Stoughton Route Extension Planning Study; Bridgewater State University Transit Route Expansion Study; Massasoit Reverse Commute Study; BAT Comprehensive Regional Transit Plan (CRTP), and Provision of planning assistance and alternatives analyses as identified in the CRTP.

### SCHEDULE:

To be carried out throughout the year. Schedules are contract dependent and vary throughout the year.

### FUNDING:

FHWA PL	MassDOT	BAT				TOTAL
		\$50,000				\$50,000

## DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

### TRANSPORTATION PLANNING STAFF

The following OCPC staff members will be working on the FFY 2022 Unified Planning Work Program. The percent effort represents the approximate time devoted to the 3C Transportation Planning Tasks.

<b><u>Name</u></b>	<b><u>Title</u></b>	<b><u>% Effort</u></b>
Shawn Bailey	Senior Transportation Planner	95%
Raymond Guarino	Principal Transportation Planner	100%
Charles Kilmer, AICP	Assistant Director/ Transportation Program Manager	100%
Guoqiang Li	Principal Transportation Planner	100%
William McNulty	Principal Transportation Planner	100%
Kyle Mowatt	Senior Transportation Planner	100%
Andrew Vidal	GIS Manager	95%

**DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)  
ESTIMATED BUDGET**

TASK DESCRIPTION	FHWA PL	MassDOT NFA	BAT				TOTAL
<b>TASK</b>							
<b>1000 - Management &amp; Support of Planning and Certification Activities</b>							
1100 3C Program Support	\$ 48,000	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000
1200 Unified Planning Work Program (UPWP)	\$ 11,200	\$ 2,800	\$ -	\$ -	\$ -	\$ -	\$ 14,000
1300 Public Participation Program (PPP)	\$ 48,800	\$ 12,200	\$ -	\$ -	\$ -	\$ -	\$ 61,000
1400 Transportation Improvement Program (TIP)	\$ 33,600	\$ 8,400	\$ -	\$ -	\$ -	\$ -	\$ 42,000
1500 Title VI and Environmental Justice (EJ)	\$ 35,200	\$ 8,800	\$ -	\$ -	\$ -	\$ -	\$ 44,000
<b>Element 1000 Subtotals</b>	<b>\$ 176,800</b>	<b>\$ 44,200</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 221,000</b>
<b>TASK</b>							
<b>2000 - Data Reconnaissance, Acquisition, and Analysis Activities</b>							
2100 Demographic Surveillance & Road Inventory Update	\$ 16,000	\$ 4,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000
2200 Multi-Modal Data Surveillance and System Monitoring	\$ 69,600	\$ 17,400	\$ -	\$ -	\$ -	\$ -	\$ 87,000
2300 System Planning and Resource Activities	\$ 38,400	\$ 9,600	\$ -	\$ -	\$ -	\$ -	\$ 48,000
2400 Geographic Information System (GIS)	\$ 51,200	\$ 12,800	\$ -	\$ -	\$ -	\$ -	\$ 64,000
2500 Management Systems and Travel Demand Modeling	\$ 76,800	\$ 19,200	\$ -	\$ -	\$ -	\$ -	\$ 96,000
<b>Element 2000 Subtotals</b>	<b>\$ 252,000</b>	<b>\$ 63,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 315,000</b>
<b>TASK</b>							
<b>3000 - Short and Long Range Transportation Planning Activities</b>							
3100 Regional Transportation Studies and Intermodal Planning	\$ 60,000	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000
3200 Local Highway Transportation Technical Assistance (LTA)	\$ 68,000	\$ 17,000	\$ -	\$ -	\$ -	\$ -	\$ 85,000
3300 Road Safety Audits (RSAs) at Multiple Locations	\$ 70,561	\$ 17,640	\$ -	\$ -	\$ -	\$ -	\$ 88,201
3400 High Priority Corridor Study Screening Assessment	\$ 44,000	\$ 11,000	\$ -	\$ -	\$ -	\$ -	\$ 55,000
3500 Freight Planning and Action Plan	\$ 48,000	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000
3600 Performance Based Planning	\$ 16,000	\$ 4,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000
<b>Element 3000 Subtotals</b>	<b>\$ 306,561</b>	<b>\$ 76,640</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 383,201</b>
<b>TASK</b>							
<b>4000 - Other Transportation Technical Activities</b>							
4100 Transit Technical Assistance and Coordination, and Seniors and Individuals with Disabilities Support	\$ 32,000	\$ 8,000	\$ -	\$ -	\$ -	\$ -	\$ 40,000
4200 BAT Planning, Technical Assistance, and Studies	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000
<b>Element 4000 Subtotals</b>	<b>\$ 32,000</b>	<b>\$ 8,000</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 90,000</b>
<b>Total of All Elements</b>	<b>\$ 767,361</b>	<b>\$ 191,840</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,009,201</b>

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## APPENDICES

### Appendix A

FFY 2022 Old Colony Unified Planning Work Program Endorsement

### Appendix B

§450.336 - Self-Certification Compliance Statement - 3C Process

### Appendix C

Estimates of Other Funding Sources, and Other Transportation Planning Activities

### Appendix D

Glossary of Terms and Acronyms

### Appendix E

Public Review Period and Public Comments



**DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)**

**APPENDIX A - FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM ENDORSEMENT**

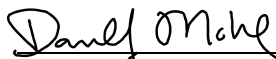
**DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)**

**APPENDIX B - §450.336 - SELF CERTIFICATION COMPLIANCE STATEMENT - 3C PROCESS**

## 23 CFR § 450.220 and 23 CFR § 450.336 - Old Colony MPO Self Certification Compliance Statement

The Old Colony Metropolitan Planning Organization certifies that its conduct of the metropolitan transportation planning process complies with all applicable requirements, which are listed below, and that this process includes activities to support the development and implementation of the Regional Long-Range Transportation Plan and Air Quality Conformity Determination, the Transportation Improvement Program and Air Quality Conformity Determination, and the Unified Planning Work Program.

1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
2. In nonattainment 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 FAST Act (Pub. L. 114-357) and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in DOT 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 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, or a member of Congress, in connection with the awarding of any federal contract.



Jamey Tesler, Acting Secretary and CEO  
Massachusetts Department of Transportation (MassDOT)  
Chair, Old Colony Metropolitan Planning Organization (OCMPO)

04/27/21

Date

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## APPENDIX C - OTHER OLD COLONY PLANNING COUNCIL FUNDING SOURCES AND OTHER PLANNING STUDIES

The OCPC is a comprehensive planning agency serving communities located in Southeastern Massachusetts. In addition to the range of transportation planning studies and activities described in this report, OCPC performs land use, economic development, elder services, environmental, and comprehensive planning.

### Estimates of Other OCPC Funding Sources

1. Economic Development Administration (EDA)	\$ 70,000
2. Economic Development Administration (EDA) Cares Act	\$200,000
3. Executive Office Elder Affairs (EOEA)	
a. Administration	\$147,723
b. Administration FFRCA	\$ 10,379
c. Administration Cares Act	\$ 88,424
d. Ombudsman Program	\$135,000
e. Ombudsman Cares Act	\$ 8,523
4. District Local Technical Assistance (DLTA)	\$202,000
5. Green Communities	\$ 7,500
6. Municipal Vulnerability Preparedness (MVP)	\$ 14,835
7. Regional Energy Planning Assistance (REPA)	\$ 31,645
8. Community Septic Management Program	\$ 10,500

### Listing of Other Transportation Planning Activities

The following is a listing of other transportation planning activities underway in the region that are not being funded with FHWA and/ or FTA funds included in the FFY 2022 Old Colony Unified Planning Work Program.

1. Massachusetts Bicycle Plan
2. Massachusetts Freight Plan
3. Massachusetts Pedestrian Plan
4. Massachusetts State Rail Plan
5. MassDOT South Coast Rail Project Design and Environmental Permitting
6. MassDOT Statewide Climate Change Adaptation Plan
7. State Implementation Plan (SIP)

# DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)

## APPENDIX D - GLOSSARY OF TERMS AND ACRONYMS

### List of Acronyms

3C:	Comprehensive, Cooperative, and Continuing Planning Process
ADA:	Americans with Disabilities Act
BAT:	Brockton Area Transit Authority
CAAA:	Clean Air Act Amendments of 1990
CIP:	Capital Investment Plan
CMAQ:	Congestion Mitigation and Air Quality Improvement Program
CMP:	Congestion Management Process
CTGP:	Community Transit Grant Program
DEP:	Department of Environmental Protection
EIR:	Environmental Impact Report
EJ:	Environmental Justice
ENF:	Environmental Notification Form
EPA:	Environmental Protection Agency
FHWA:	Federal Highway Administration
FTA:	Federal Transit Administration
GATRA:	Greater Attleboro-Taunton Regional Transit Authority
GHG:	Greenhouse Gases
GWSA:	Global Warming Solutions Act
HPMS:	Highway Performance Monitoring System
HSIP:	Highway Safety Improvement Program
IRI:	International Roughness Index
JTC:	Joint Transportation Committee
LAP:	Language Access Plan
LEP:	Limited English Proficient
LOS:	Level of Service
LRTP:	Long Range Transportation Plan
MAP:	Mobility Assistance Program
MARPA:	Massachusetts Association of Regional Planning Agencies
MassDOT:	Massachusetts Department of Transportation
MBTA:	Massachusetts Bay Transportation Authority
MOU:	Memorandum of Understanding
MPO:	Metropolitan Planning Organization
NAAQS:	National Ambient Air Quality Standards
NBIS:	National Bridge Inventory Standards
NFA:	Non-Federal Aid
NFP:	National Freight Program
NHPP:	National Highway Performance Program
NHS:	National Highway System
NOx:	Nitrogen Oxides
PM1:	Safety Performance Measures

## **DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)**

PM2:	System Preservation Performance Measures
PM3:	System Performance Measures (Congestion, Reliability, and Emissions)
PMS:	Pavement Management System
PPP:	Public Participation Plan
PRC:	Project Review Committee
PSI:	Pavement Serviceability Index
SGR:	State of Good Repair
SIP:	State Implementation Plan
SMS:	Safety Management System
SSCAC:	South Shore Community Action Council
STBG:	Surface Transportation Block Grant Program
TAM	Transit Asset Management
TAMP	Transportation Asset Management Plan
TAN:	Transportation Advisory Network
TAP:	Transportation Alternatives Program
TCM:	Transportation Control Measure
TERM:	Transit Economic Requirements Model
TIP:	Transportation Improvement Program
TMA:	Transportation Management Area
ULB:	Useful Life Benchmark
VMT:	Vehicle Miles Traveled
VOCs:	Volatile Organic Compounds

**DRAFT FFY 2022 OLD COLONY UNIFIED PLANNING WORK PROGRAM (UPWP)**

**APPENDIX E - PUBLIC REVIEW PERIOD AND PUBLIC COMMENTS**

# OLD COLONY PLANNING COUNCIL

Christine M. Joy  
*President*  
70 School Street  
Brockton, MA 02301-4097

Mary V. Waldron  
*Executive Director*  
Telephone: (508) 583-1833  
Fax: (508) 559-8768  
Email: [mwaldro@ocpcrpa.org](mailto:mwaldro@ocpcrpa.org)

**May 18, 2021**

## **NOTICE OF PUBLIC REVIEW AND COMMENT PERIOD** **FFY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)**

In accordance with the Public Participation Process developed by the Old Colony Metropolitan Planning Organization (MPO), Old Colony Planning Council (OCPC) is making the FFY 2022 UPWP available for public review and comment. Copies of are available for review at <http://www.ocpcrpa.org/>, and/or upon request. This notice will initiate a 21-Day Public Review and Comment Period. This process will also be used as Brockton Area Transit Authority's (BAT) public participation process. BAT, the Federal Transit Administration (FTA) Section 5307(c) applicant, has consulted with the Old Colony MPO and concurs that the public involvement process adopted by the Old Colony MPO for development of the TIP satisfies the public hearing requirements that pertain to the development of the Program of Projects for the regular Section 5307, Urbanized Area Formula Program, grant applications including the provisions for public notice and the time established for public review and comment. Public notice of public involvement activities and time established for public review and comments on the TIP will satisfy the program of projects (POP) requirements. The public discussion of the TIP at Old Colony JTC, Old Colony MPO, and transportation meetings satisfies the Program of Projects (POP) public hearing requirements of the FTA. A public meeting of the OCPC and Old Colony MPO advisory committee, the Old Colony Joint Transportation Committee (JTC), is scheduled for June 3, 2021 at 12 PM. Furthermore, a public meeting of the Old Colony MPO is scheduled for June 15, 2021 at 10 AM to hear public comments and consider endorsement. Please contact Charles Kilmer at 508-583-1833 Extension 206 for further information.

Please send written comments to:

Charles Kilmer  
Old Colony Planning Council (OCPC)  
70 School Street  
Brockton, MA 02301  
[ckilmer@ocpcrpa.org](mailto:ckilmer@ocpcrpa.org)



The Old Colony MPO fully complies with Title VI of the Civil Rights Act of 1964 and related statutes and regulations in all programs and activities. The Old Colony MPO operates without regard to race, color, or national origin (including limited English proficiency), age, sex, disability, ancestry, ethnicity, gender, gender identity or expression, sexual orientation, religion, creed, veteran's status, or background. Any person who believes him/herself or any specific class of persons, to be subject to discrimination prohibited by Title VI may by him/herself or by representative file a written complaint with the Old Colony MPO. Complaints are to be filed no later than 180 days from the date of the alleged discrimination. Please contact Pat Ciaramella at 508-583-1833 Extension 202 for more information.

## **LEGAL ADVERTISEMENTS**

**Notice of Public Review and Comment Period appeared in the following:**

- **The Brockton Enterprise**
- **The Patriot Ledger**
- **The Ojournal**

## PUBLIC COMMENTS

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 7C  
FFY 2021 Road Safety Audits at Multiple Locations  
Project Status and Update

**Summary**

Through Task 3300 of the FFY 2021 Old Colony MPO Unified Planning Work Program (UPWP), Old Colony Planning Council is conducting Road Safety Audits at Multiple Locations throughout the region.

A Road Safety Audit (RSA) is the formal safety performance examination of an existing or future road or intersection by an independent, multidisciplinary team. It qualitatively estimates and reports on potential road safety issues and identifies opportunities for improvements in safety for all road users.

To date, the following Road Safety Audits have been completed under this program:

- **Abington:** Route 123 at Rockland Street and Elm Street
- **Abington:** Route 139 at Chestnut Street and Old Randolph Street
- **Easton:** Turnpike Street at Depot Street
- **Kingston:** Route 27 at Lake Street

- **Stoughton:** Pearl Street at School Street

The following Road Safety Audits are scheduled:

- **Hanover:** Route 53 at Broadway (June 8)
- **Plymouth:** Commerce Way at Industrial Park Road (June 10)
- **Plymouth:** Commerce Way at Industrial Park Road (June 10)

Additional locations to be completed this program year:

- **Avon:** West Main Street at School Street and South Street
- **Bridgewater:** Route 104 at High Street and Pond Street
- **Brockton:** Main Street at Nilsson Street
- **Brockton:** Main Street at Forest Avenue
- **Brockton:** Pearl Street at Torrey Street
- **East Bridgewater:** Central Street at Union Street and North Union Street
- **Plymouth:** Cherry Street at Standish Avenue
- **West Bridgewater:** West Street at Manley Street
- **West Bridgewater:** Route 106 at Prospect Street

For information about this Road Safety Audits at Multiple Locations Study, please direct inquiries to Project managers Bill McNulty ([wmcnulty@ocpcrpa.org](mailto:wmcnulty@ocpcrpa.org)) at 508.583.1833 x207 or Ray Guarino ([rguarino@ocpcrpa.org](mailto:rguarino@ocpcrpa.org)) x212.

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 7D  
Regional Traffic Volumes and Commuter Parking Trends  
During Pandemic and Recovery

**Summary**

Traffic in the Old Colony Region has bounced back and will hopefully continue its trend back to normal levels sooner than anticipated. From September to January, traffic saw its second significant decrease in 2020 as COVID-19 cases rose dramatically, Reopening Phases were recalled, and additional restrictions were implemented. However, with the vaccine rollout, cases and fatalities have significantly dropped, Reopening Phases moved forward throughout the Spring months, and all restrictions have now been lifted with the State of Emergency ending this month. Traffic in the Old Colony region spiked massively in March, experienced amazing numbers on Easter when compared to Easter 2020, and is continuing to return to pre-pandemic levels. Anyone who is interested in seeing OCPC's webpage for this project is invited to visit it at [http://ocpcrpa.org/traffic\\_during\\_covid.html](http://ocpcrpa.org/traffic_during_covid.html).

Between April 27<sup>th</sup> and 29<sup>th</sup>, members of OCPC's Transportation Department conducted its annual Congestion Management Process (CMP) data collection at 15 Commuter Rail stations and six Park & Ride lots. With the progression of the vaccine rollout and Reopening Phases, it was hoped that utilization would increase; however, that was not the case. The data shows increases overall at both Commuter Rail stations and Park & Ride lots from October 2020, but only minimal increases. Majority of the locations visited saw minimal differences from six months prior, with the only significant increase experienced at the Bridgewater Commuter Rail station. It is hoped that both Commuter Rail stations and Park & Ride lots will

see significant increases in utilization in October will all COVID-19 restrictions now lifted, but it is unknown if that will occur.

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 8A  
Community Local Technical Assistance Studies

**Summary**

Through Task 3200 (Local Highway Technical Assistance) of the Old Colony Metropolitan Planning Organization (MPO) FFY 2021 Unified Planning Work Program, Old Colony Planning Council provides local traffic planning and technical analysis services to its member communities.

The Town of Kingston has requested the following technical assistance:

- Assistance in Request for Heavy Commercial Vehicle Exclusion (HCVE) for Green Street
- Heavy Commercial Vehicle Exclusion (HCVE) Feasibility Study for Smiths Lane
- Assistance and Guidance on Re-Routing Route 106 and National Highway System Segment from Main Street to Evergreen Street

The Town of Plympton has requested assistance in requesting Heavy Commercial Vehicle Exclusion (HCVE) zones for several roadways in Town. Old Colony Planning Council will meet with Board of Selectmen to discuss options.



## Project Status Updates

### Avon

- Traffic Study for East Main Street (Route 28) at East and West Spring Street  
*Data analysis in progress.*

### Brockton

- Road Safety Audit for Main Street at Forest Avenue  
*To be scheduled late Spring or early Summer 2021*
- Road Safety Audit for Pearl Street at Torrey Street  
*To be scheduled late Spring or early Summer 2021*

### Duxbury

- Follow-Up Traffic Study: Travel Speeds on Various Roadways  
*Data collection planned for Spring 2021*

### East Bridgewater

- East Street Traffic Study  
*Data collection planned*

### Kingston

- Assistance with Heavy Commercial Vehicle Exclusion (HCVE) Request for Green Street

*Ongoing analysis and technical assistance*

- Heavy Commercial Vehicle Exclusion (HCVE) Feasibility Study for Smiths Lane  
*Data Collection scheduled for Summer 2021*
- Assistance and Guidance on Re-Routing Route 106 and National Highway System Segment from Main Street to Evergreen Street  
*Ongoing analysis and technical assistance*

**Plymouth**

- Clark Road / Beaver Dam Road Traffic Speed Analysis  
*Additional Data collection planned for Summer 2021.*

**Plympton**

- Assistance with Heavy Commercial Vehicle Exclusion (HCVE) Request for Several Roadways  
*Data Analysis in progress*

**Stoughton**

- Turnpike Street Traffic Speed Study  
*Data analysis in progress*
- Walnut Street Traffic Study  
*Data collection planned*

For information about local technical assistance studies prepared by OCPC, please direct inquiries to Bill McNulty ([wmcnulty@ocpcrpa.org](mailto:wmcnulty@ocpcrpa.org)) at 508.583.1833 extension 207.

June 3, 2021 Old Colony JTC Meeting  
Agenda Item 8B  
Staff Reviews on ENFs, EIRs, and NPCs

**Summary**

The reviews on Environmental Notification Forms (ENFs), Environmental Impact Reports (EIRs), and Notices of Project Change (NPCs) staff report includes projects that are subject to Massachusetts Environmental Policy Act (MEPA) review under M.G.L. c. 30, sections 61-62H. The staff report provides information about proposed projects, proponent and MEPA points of contact, and comment period deadlines in order to provide the public with an opportunity to review and comment on any and all proposed projects. Information on the MEPA review process; project filing procedures; the staff directory; and information on current and past projects can be accessed at <http://www.mass.gov/eea/agencies/mepa/>.

**Submitting Comments to MEPA**

The Secretary of Energy and Environmental Affairs (EEA) accepts written comments on projects currently under MEPA review. Comments may be submitted electronically, by mail, via fax, or by hand delivery. Comments submitted to MEPA are public records and should be sent to the following address:

Secretary Kathleen Theoharides  
EEA, Attn: MEPA Office  
[Analyst Name], EEA No. \_\_\_\_\_  
100 Cambridge Street, Suite 900

Boston, MA 02114

**ENF**

**EEA #16373 – Aldana Road Land Swap – Halifax**

The “sliver” (so-called, owned by DFG) is 39,120 sq. ft (0.898 acres) and runs along the south side of Aldana Rd. for a distance of 2,546+/- ft, with an average width of 15 ft. (Plan Bk 43 Pg 56). The “sliver” lies along the toe of the slope of Aldana Rd. The surface of Aldana Rd. is several feet higher than the adjacent wetland. The “sliver” is wetland but has negligible habitat value because of its long, very narrow configuration.

The Town of Halifax desires to acquire the “sliver” in order to create a safer layout at the location of a pronounced sharp curve in Aldana Rd., a gravel surfaced public way. This sharp curve is shown on Plan Bk 43 Pg 56.

The Town of Halifax is aware that wetlands along the toe of the slope of the south side of Aldana Rd may be impacted if the Town proceeds with any changes in the layout of Aldana Rd (i.e., roadway improvements). Currently the Town has no proposal for any such changes or improvements, no plans have been prepared, no funds have been approved, and the Town does not anticipate generating any such proposal within the next 5 years. The Town understands that if or when the Town decides to make any changes to the layout of Aldana Rd and if those changes involve wetland impacts, the Town may need to submit an ENF to MEPA, as well as obtain any other required permits, regarding wetland impacts.

## **EEA #16383 – Lincoln Park – West Bridgewater**

The proposed project is centered around the development of a 350,000 sf warehouse with other areas of the site, potentially being used for a 100,000 sf warehouse or expanded trailer parking area. The northern most corner of the property would be used in conjunction with a portion of the existing Lincoln Street layout for a 13,000 sf retail venue on roughly 1.5 acres of land.

Development of the project is predicated on the relocation of Lincoln Street to align with Crescent Street and other improvements to West Center Street (Route 106) that are proposed as part of the project. Access to the proposed project would be provided through four driveways, one on West Center Street (Route 106) and three on Lincoln Street. The proposed improvements at the intersection of West Center Street (Route 106) and Lincoln Street/Crescent Street would improve existing traffic conditions and offset any traffic impact of the proposed project. Aligning Lincoln Street with Crescent Street and placing those approaches under traffic signal control would improve the safety of the two offset unsignalized intersection approaches. Providing additional capacity along West Center Street (Route 106) would improve the organization and flow of vehicles traveling to and from the Route 24 interchange. These proposed improvements represent a significant investment in the Town of West Bridgewater.

The project site has been designed to serve the needs of the development and the region and will be constructed in phases so as to ensure that the size of the project continues to be appropriate for the site needs in the future. The initial build program of 350,000 sf of warehouse would serve the immediate needs of the area. An appropriate amount of parking (528 spaces) and impervious area would accompany this portion of the development and allow for the eventual end user to operate efficiently. At an appropriate time, the potential for an additional 100,000 sf of warehouse and/or up to 13,000 sf of retail could also be constructed on the site and as such are included in this project review. The parking and impervious areas

that would accompany the additional elements of the project would be designed to minimize environmental disturbance while meeting the needs of the specific development.

## **CERTIFICATES**

### **EEA #16346 – Release of House Lot from Agricultural Preservation Restriction (APR) (Dotem Road) – Plymouth**

This ENF is submitted in connection with the creation of a house lot on the southerly side of Dotem Road in Plymouth, its release from a 1984 APR and the Amendment and confirmation of that APR as it affects the remaining land subject to it. The purpose of this project is succession planning. The proposed house lot will be used as a single-family residence and barn. The remaining APR acreage will be farmed.

The certificate states that this project does not require an Environmental Impact Report (EIR).

June 3, 2021 Old Colony JTC Meeting

Agenda Item 8C

## Regional Concerns and Local Community Transportation Issues

### **Summary**

Regional Concerns and Local Community Transportation Issues.