

## **2022-2025 TIP Amendment: Central Avenue Bicycle Facility**

**Baltimore Regional Transportation Board** 

January 21, 2022





## Baltimore City FY 2022-2025 TIP Amendment Overview

- This amendment adds a new project to the FY 2022-2025 TIP.
  - The project was originally listed in the FY 2016-2019 TIP.
- Baltimore City desires to modify the striping plan on the Central Avenue Phase II project to provide better bicycle facilities and increased pedestrian safety/comfort by lowering vehicular speeds.
- Inclusion of this project in the TIP is necessary to prepare and finalize NEPA documents. Funding for this project includes \$750,000 for construction (\$600,000 federal/\$150,000 match) in FY 2022. The total estimated cost of the project is \$53.451 million.





#### **Central Avenue Bicycle Facility Overview**



- Central Avenue Phase I Streetscape between Baltimore Street and Madison Street started in 2012 and was completed in 2015. Included street reconstruction, ADA upgrades, and new traffic signals.
- Central Avenue Phase II Streetscape between Dock Street and Baltimore Street started in 2016 will be completed in 2022. Includes street reconstruction, ADA upgrades, utility work, traffic signals, and a new bridge between Harbor Point and Harbor East.
- This project proposes to add additional funds to improve the design of the Central Avenue Phase II Streetscape project for bicycle and pedestrian safety and accessibility.

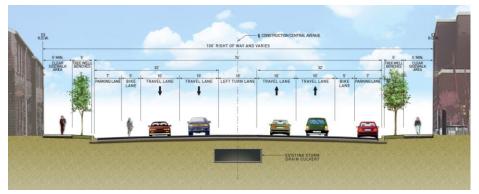


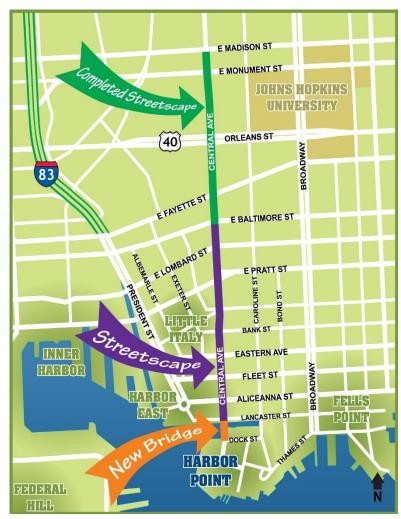


#### **ORIGINAL PROJECT**



- Central Avenue Phase I Streetscape between Baltimore Street and Madison Street started in 2012 and was completed in 2015.
- Central Avenue Phase II Streetscape between Dock Street and Baltimore Street started in 2016 will be completed in 2022. Currently at 90% construction completed.
- 4/5 travel lanes, two 5' bikes lanes





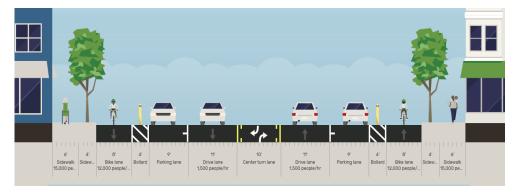




#### **Proposed TIP Amendment**

 Project includes modifying original Central Avenue design to include protected bicycle facilities between Baltimore Street and Fleet Street through revised striping/signing plan

 2/3 travel lanes, two parking protected bike lanes Proposed
Protected
Bicycle
Facility









## **Justification for Project**



- Reducing the number of travel lanes from 5 to 3 follows FHWA's guidance on best practices for road diets while adequately serving existing and future traffic demand.
- Providing protected bicycle lanes follows the Bikeway Selection Guide from FHWA's Separated Bike Lane Planning and Design Guide and improves safety for all travel modes on Central Avenue.
- Providing protected bicycle lanes complies with the City's Bicycle Master Plan, improving multi-modal transportation options throughout the City.





#### **TIP Amendment Funding and YOP**



- Request to add \$600,000 Federal funding with a \$150,000 local match totaling \$750,000 for the Construction Phase in FY 2022 of the FY2022-2025 TIP. Proposed funding source from Surface Transportation Block Grant Program.
- No Engineering Funds are being requested.
- Previous Total Estimated Cost of the Central Avenue Phase II Project was \$51,000,000. Current project expenditures are \$52,701,191. Total Project Cost including TIP Amendment is \$53,451,191.
- The projected date of operation is October 2022.





#### For More Information

#### **Graham Young, PE, PTOE** Complete Streets Manager

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## 2022-2025 TIP Amendment: I-95/I-695 Interchange Bridge Deck Replacement

**BRTB** 

January 21, 2022







#### **AMENDMENT PURPOSE**

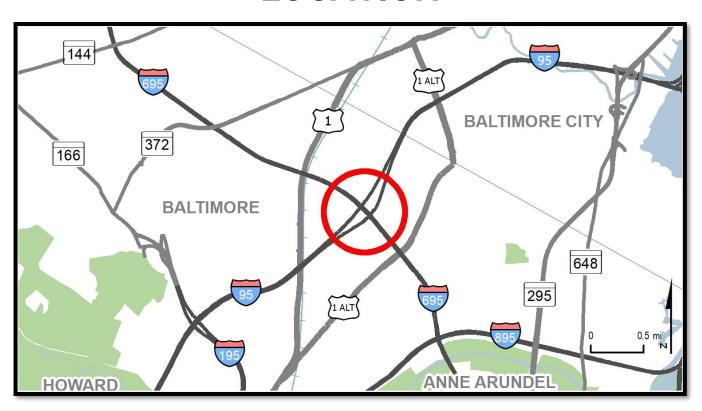
- Add a new project to the FY 2022-2025 TIP
  - New major project in the 2022-2027 CTP
  - Needed to accommodate anticipated February 2022 advertisement date







#### **LOCATION**









#### PROJECT DESCRIPTION

- Replace bridge decks with latex modified concrete deck overlays on 10 bridges before they reach a deteriorated state
- Upgrade bridge parapets to meet current safety standards





#### INTERCHANGE BRIDGES

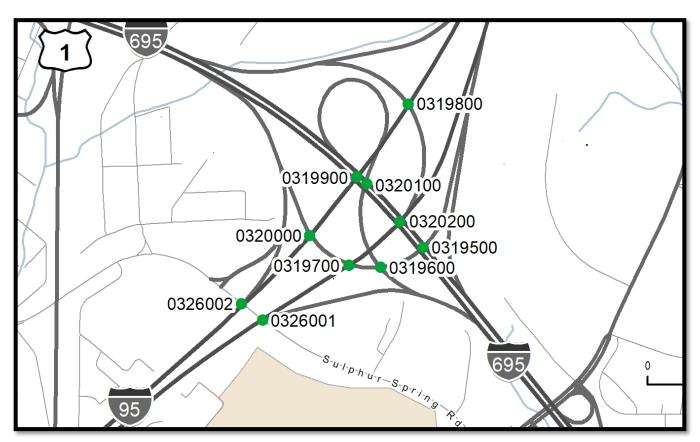
- 0319800 Southbound I-95 over I-95 Ramp I
- 0319900 Southbound I-95 over I-695
- 0320100 I-95 Ramp G over I-695
- 0320200 Northbound I-95 over I-695
- 0319500 I-95 Ramp C over I-695
- 0320000 Southbound I-95 over I-695 Ramp C
- 0319700 Northbound I-95 over I-695 Ramps C & G
- 0319600 I-695 Ramp C over I-95 Ramp G
- 0326002 Southbound I-95 & Ramp D over Sulphur Spring Road
- 0326001 Northbound I-96 & Ramp H over Sulphur Spring Road







#### **INTERCHANGE BRIDGES**







#### **SCHEDULE**

- Advertisement: February 22, 2022
- Notice to Proceed: June 6, 2022
- Open to Traffic: Summer 2024







#### TOTAL COST

Design \$2,200,000

<u>Construction \$25,000,000</u>

Total \$27,200,000

Federal Aid: \$25,804,000

MDOT SHA is using toll credits to increase the share of federal funding to approximately 95%



#### **For More Information**

#### Lisa Minnick Sirota | Regional Planner

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## **Safety Performance Target Setting**

**Baltimore Regional Transportation Board** 

January 21, 2022





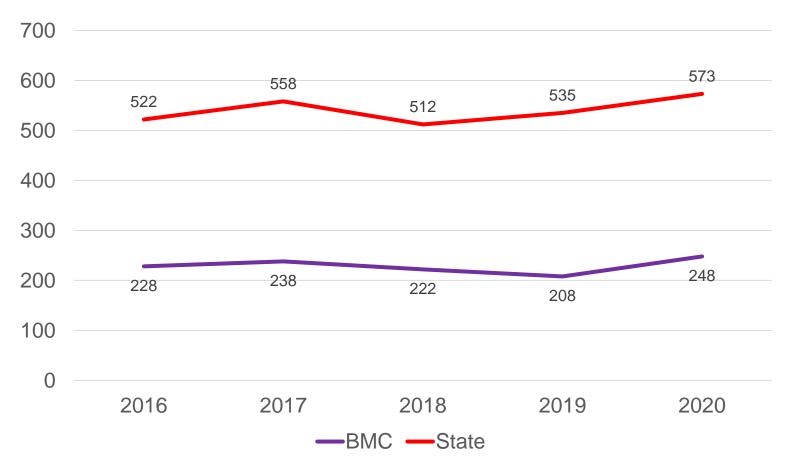
## Safety in the Baltimore Region

<b>BMC</b>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
Fatalities	228	238	222	208	248
Serious Injuries	1,432	1,684	1,575	1,509	1,409
Total Injuries	25,824	26,374	26,022	25,292	19,591
Vehicle Miles Traveled (millions)	27,358	27,731	27,688	27,844	23,318
<u>State</u>					
Fatalities	522	558	512	535	573
Serious Injuries	3,167	3,347	3,233	3,122	2,718
Total Injuries	50,921	51,391	50,011	48,663	36,754
Vehicle Miles Traveled (millions)	58,974	59,892	59,629	60,136	50,592





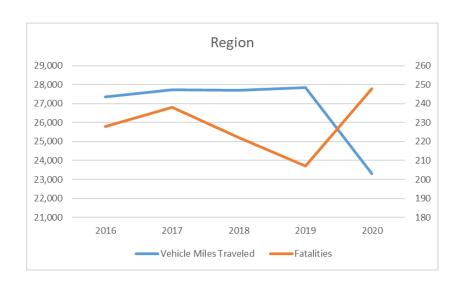
#### **Fatalities**

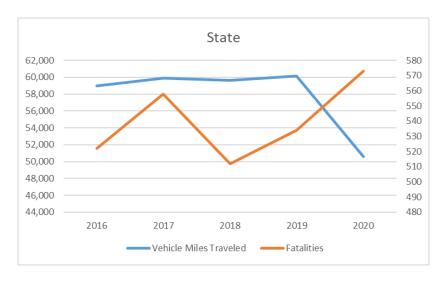






#### **Vehicle Miles Traveled**

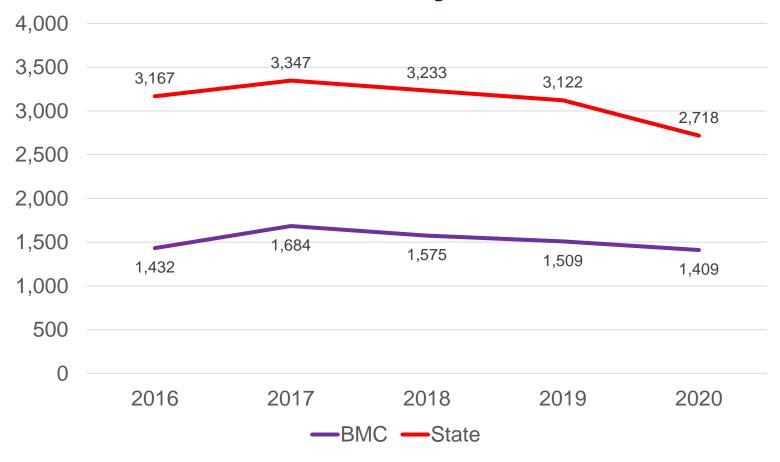




- -16.3% Vehicle Miles Traveled change 2019-2020 19.8% Crash fatalities change 2019-2020
- -15.9% Vehicle Miles Traveled change 2019-2020
  - 7.3% Crash fatalities change 2019-2020



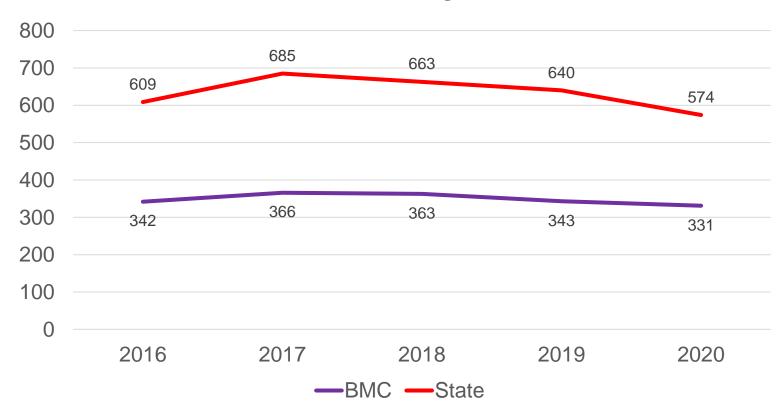
## **Serious Injuries**







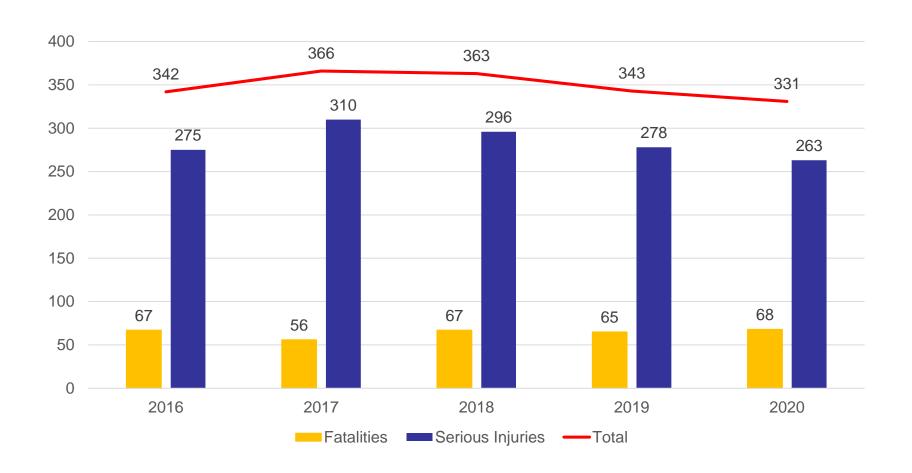
# Non-motorist Fatalities and Serious Injuries







# Non-motorized Serious Injuries and Fatalities (BRTB region)

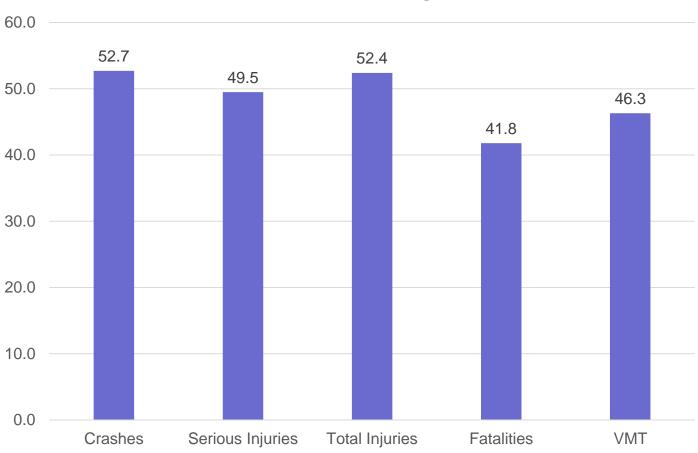






#### **BRTB Percent of State**









## **Safety Performance Targets**

- Federal regulations state that MPOs must set safety performance targets 180 days after the State HSIP Report is submitted.
- Initial BRTB safety targets were set in January 2018 and updated each January since then.



## **BRTB Target-Setting Process**



- Follow new Maryland methodology
  - Exponential forecast from 2005-2009 average
  - Annual 2% reduction in cases of increasing trends
  - Single year target is midpoint of five-year average (e.g. 2020 target = 2018-2022 average)
- Set five targets specific to the BRTB region
- Updated targets to be approved no later than February 28, 2022
  - Incorporate new year of data into five-year rolling averages



#### Resolution #22-10

#### Baltimore Region Yearly Highway Safety Targets

Performance Measure	2005- 2009 Baseline	2019 Actual	2020 Actual	Change 2019-2020	2018-2022 Target	2040 Goal
Number of Fatalities	244	208	248	19.2%	208	194
Number of Serious Injuries	2,094	1,509	1,409	6.6%	1,166	882
Fatality Rate per 100 Million VMT	0.94	0.75	1.06	<b>1</b> 42.4%	0.75	0.67
Serious Injury Rate per 100 Million VMT	8.06	5.42	6.04	11.5%	4.23	3.04
*Number of Non-motorized Fatalities & Serious Injuries	290	342	331	<b>1</b> 11.7%	333	272

<sup>\*</sup>Increasing trend, so two percent annual reduction applied.





#### **State Trends**

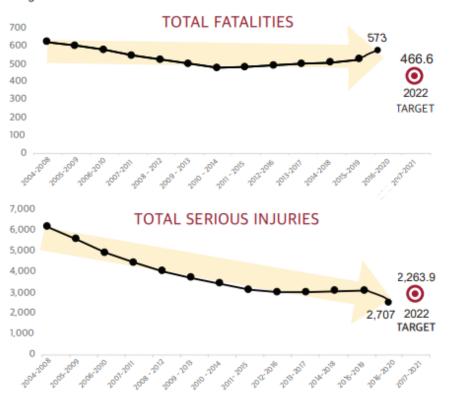
Performance Measure	2019 Actual	2020 Actual	Change 2019-2020
Number of Fatalities	535	573	7.10%
Number of Serious Injuries	3,122	2,718	12.94%
Fatality Rate per 100 Million VMT	0.89	1.13	<b>1</b> 26.97%
Serious Injury Rate per 100 Million VMT	5.19	5.37	<b>1</b> 3.47%
Number of Non-motorized Fatalities & Serious Injuries	640	574	10.31%

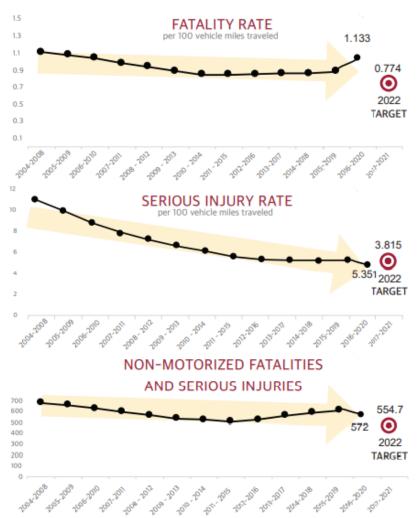




#### **TPM 1: SAFETY**

As part of Maryland's "Zero Deaths" approach to addressing highway safety, MDOT applies an exponential trend analysis to the five-year rolling averages to establish safety targets, as documented in the 2021-2025 Maryland Strategic Highway Safety Plan. Targets are updated annually and reported in the Highway Safety Improvement Program.









## **BRTB Strategies**

- What have we done?
  - Incorporated measures and targets into the Transportation Improvement Program (TIP)
  - Enhanced safety in project scoring for the LRTP
  - Complete Streets Policies for MD and several Jurisdictions
  - Congestion Management Process
  - Local Strategic Highway Safety Plans
    - Four in place, three more to begin spring 2022
  - Pedestrian/Bicycle Coordinators in most Jurisdictions
  - Continuing Look Alive campaign
  - Safe System Approach
- New ideas?



#### For More Information

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