

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



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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

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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

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INTERCHANGE BRIDGES 695, -S-u-1-p-h-u-r-S-p-r-1-n-g



BRTB 1



SCHEDULE

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







TOTAL COST

Design\$2,200,000Construction\$25,000,000Total\$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

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Safety Performance Target Setting

Baltimore Regional Transportation Board

January 21, 2022



Safety in the Baltimore Region

BMC	<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

2018

Vehicle Miles Traveled

2019

Fatalities

7.3% Crash fatalities change 2019-2020

State

62,000

60,000

58,000

56,000

54,000

52,000

50,000

48,000

46,000

44,000

2016

2017





580 570

560

550

540

530

520

510

500

490

480

2020

Serious Injuries







Non-motorist Fatalities and Serious Injuries







Non-motorized Serious Injuries and Fatalities (BRTB region)



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BRTB 24

BRTB Percent of State

2018-2020 average



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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	42.4%	0.75	0.67
Serious Injury Rate per 100 Million VMT	8.06	5.42	6.04	1 11.5%	4.23	3.04
*Number of Non-motorized Fatalities & Serious Injuries	290	342	331	1 11.7%	333	272

*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	26.97%
Serious Injury Rate per 100 Million VMT	5.19	5.37	1 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.

TOTAL FATALITIES 700 573 600 466.6 500 Θ 400 2022 300 TARGET 200 100 0 2004-2008 7,000 TOTAL SERIOUS INJURIES 6,000 5,000 4,000 2,263.9 700 600 Θ 3,000 500 400 2,000 2022 2,707 300 TARGET 1,000 200 100 0 2004-2008 1056-100 001-101 000-101 000-1000 000-1000 001-1000 001-100 00-100-208-2020 205-208 1017-2021



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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?

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For More Information

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