

Susquehanna Bridges

TIP ID	95-1401-59	Year of Operation	n/a
Agency	Office of the Secretary	Project Type	Other
Project Category	Commuter Rail	Functional Class	NA
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	TSO-5	Est. Total Cost	\$10,846,000

Description:

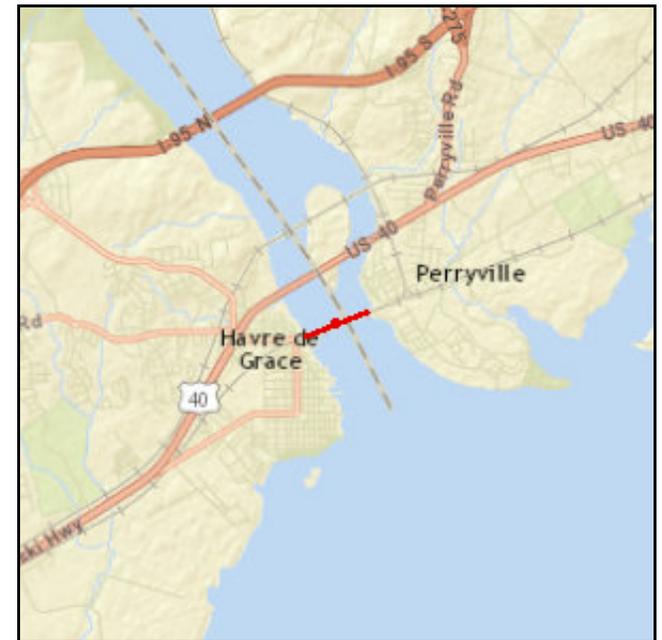
Preliminary Engineering and National Environmental Policy Act (NEPA) analysis for a bridge replacement of the existing Northeast Corridor Susquehanna River Bridge. The NEPA study will examine alternatives that will provide for safety and capacity improvements on the Northeast Corridor.

Justification:

The Bridges on the Amtrak Northeast Corridor in Maryland (Gunpowder, Bush and Susquehanna) are nearing the end of their useful life and require additional capacity for future passenger and freight operations. MDOT and Amtrak will pursue necessary funding to advance the replacement of three bridges in total.

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 2.E Improve and Maintain the Existing Infrastructure -- Improve the condition of transit infrastructure and stations/stops.
- 3.A Improve Accessibility -- Increase transportation alternatives for all segments of the population.





Susquehanna Bridges

(Funding in Thousands)

High Speed Intercity Passenger Rail

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$10,846	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,846
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$10,846	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,846
Total	\$10,846	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,846

State Safety Oversight

TIP ID	90-1401-39	Year of Operation	Ongoing
Agency	Office of the Secretary	Project Type	Other
Project Category	Environmental/Safety	Functional Class	NA
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	TSO-7	Est. Total Cost	\$803,000

Description:

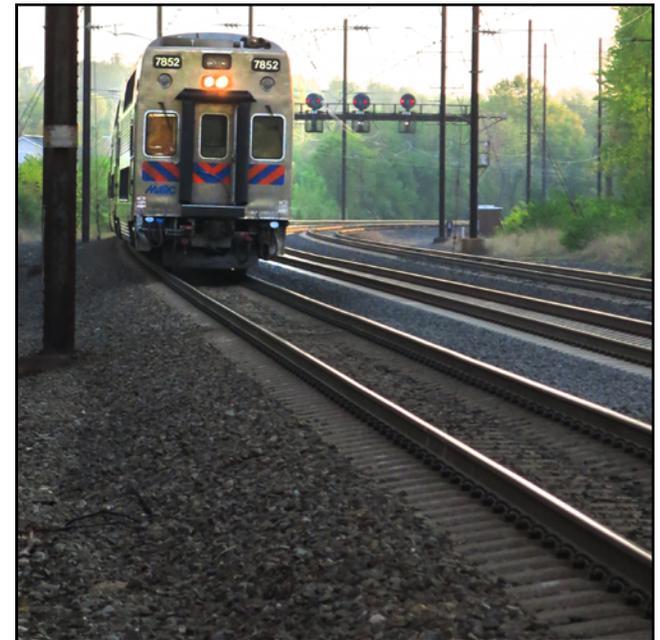
The Maryland Department of Transportation(MDOT) intends to use these Section 5329 Funds to provide administrative expenses for training, consultant services and miscellaneous equipment to oversee MTA’s Light Rail and Metro systems and its operations in the Baltimore, Maryland metropolitan area.

Justification:

To make transit safer through policy development, hazard investigation, data collection, risk analysis, effective oversight programs and information sharing.

Connection to Long-Range Transportation Planning Goals:

- 1.B Improve System Safety -- Apply safety-related management and operations techniques.
- 1.D Improve System Safety -- Improve emergency response time.





State Safety Oversight

(Funding in Thousands)

Section 5329 (State Safety Oversight)

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$603	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$803
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$603	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$803
Total	\$603	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$803

Port of Baltimore Enhancements

TIP ID	92-1401-83	Year of Operation	2018
Agency	Office of the Secretary	Project Type	Facility expansion
Project Category	Ports	Functional Class	NA
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	MPA-9	Est. Total Cost	\$42,857,000

Description:

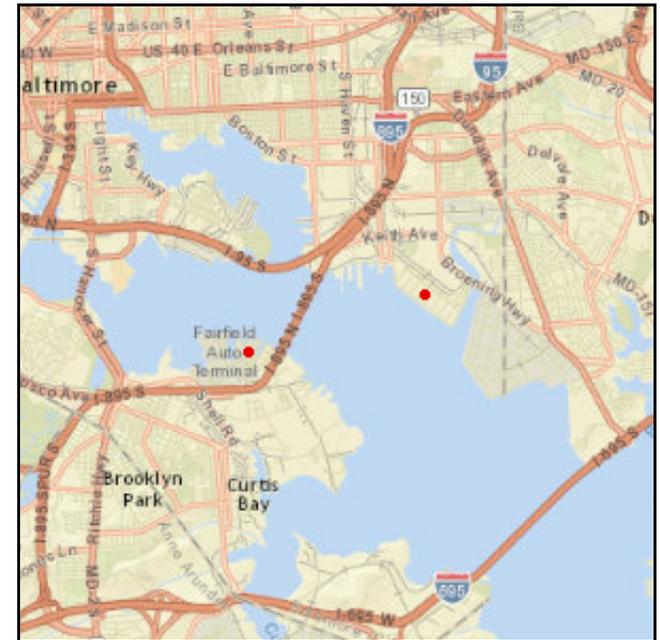
MPA's TIGER project has three portions: provide rail access to Fairfield Marine Terminal; widening and straightening the navigation channel to Seagirt Marine Terminal; and filling the Fairfield Basin to develop seven acres of new land for cargo storage.

Justification:

The current access channel to Seagirt is deep enough; however, it has several turns and is too narrow for the next generation of container ships that will be able to transit the Panama Canal when it is expanded in 2016. The suitable material dredged from this widening will be used as fill in the WWII-era shipbuilding basin to create new land needed for cargo storage (and cost avoidance to replace dilapidated bulkheads). Rail access to Fairfield will allow more efficient cargo movement.

Connection to Long-Range Transportation Planning Goals:

- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.
- 7.F Promote Prosperity and Economic Opportunity -- Provide context-sensitive infrastructure and facilities.





Port of Baltimore Enhancements

(Funding in Thousands)

Transportation Investment Generating Economic Recovery

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$6,336	\$4,685	\$1,664	\$6,884	\$0	\$0	\$0	\$0	\$19,569
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$6,336	\$4,685	\$1,664	\$6,884	\$0	\$0	\$0	\$0	\$19,569
Total	\$6,336	\$4,685	\$1,664	\$6,884	\$0	\$0	\$0	\$0	\$19,569

Baltimore and Potomac Tunnel

TIP ID	92-1101-99	Year of Operation	n/a
Agency	Office of the Secretary	Project Type	Miscellaneous
Project Category	Miscellaneous	Functional Class	NA
Conformity Status	Exempt	Physical Data	2.3 miles
CIP or CTP ID(s)	TSO-6	Est. Total Cost	\$38,731,000

Description:

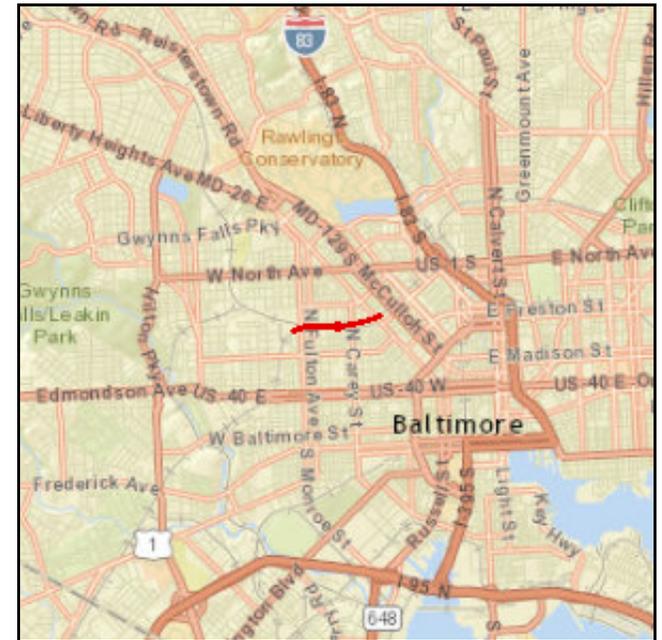
Preliminary Engineering and National Environmental Policy Act (NEPA) analysis for a new tunnel alignment to augment and replace the existing B&P Tunnel. The NEPA study will examine alternatives that will provide for safety and capacity improvements on the Northeast Corridor through Baltimore.

Justification:

The B&P Tunnel opened in 1873 and is approaching the end of its useful life. The new alignment and infrastructure should increase capacity, reduce travel times, add Fire and Life Safety Facilities, reduce maintenance costs, increase clearance, and potentially provide structural and operational redundancy.

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 2.E Improve and Maintain the Existing Infrastructure -- Improve the condition of transit infrastructure and stations/stops.
- 4. Increase Mobility
- 7.F Promote Prosperity and Economic Opportunity -- Provide context-sensitive infrastructure and facilities.





Baltimore and Potomac Tunnel

(Funding in Thousands)

High Speed Intercity Passenger Rail

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$38,731	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$38,731
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$38,731	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$38,731
Total	\$38,731	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$38,731

MD 175: Mapes Road and Reece Road Intersection Reconstruction

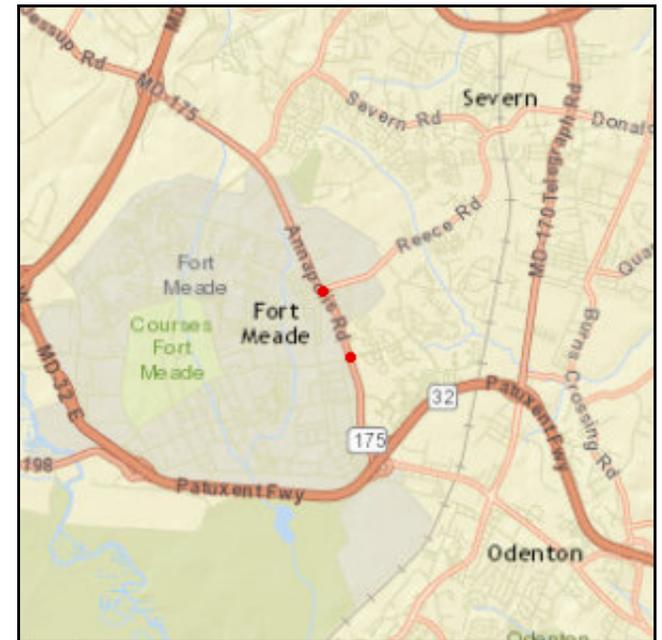
TIP ID	61-1402-39	Year of Operation	2018
Agency	SHA - Anne Arundel County	Project Type	Other
Project Category	Environmental/Safety	Functional Class	Minor Arterial
Conformity Status	Not Exempt	Physical Data	1 Mile
CIP or CTP ID(s)	AA5806	Est. Total Cost	\$18,917,000

Description:

Construct intersection capacity improvements at Mapes Road/Charter Oaks Boulevard and Reece Road (MD 174) (BRAC intersection improvement).

Justification:

This project will improve safety and operations along MD 175 and ease growing congestion resulting from the BRAC expansion of Fort Meade.



Connection to Long-Range Transportation Planning Goals:

- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.



MD 175: Mapes Road and Reece Road Intersection Reconstruction

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$3,314	\$648	\$3,017	\$589	\$0	\$0	\$0	\$0	\$7,568
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$929	\$232	\$0	\$0	\$0	\$0	\$0	\$0	\$1,161
Subtotal	\$4,243	\$880	\$3,017	\$589	\$0	\$0	\$0	\$0	\$8,729
Total	\$4,243	\$880	\$3,017	\$589	\$0	\$0	\$0	\$0	\$8,729

MD 175: MD 295 to MD 170

TIP ID	61-0605-41	Year of Operation	2025
Agency	SHA - Anne Arundel County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Minor Arterial
Conformity Status	Not Exempt	Physical Data	2/4 lanes to 6-lane divided; 5.2 miles
CIP or CTP ID(s)	AA4361	Est. Total Cost	\$190,900,000

Description:

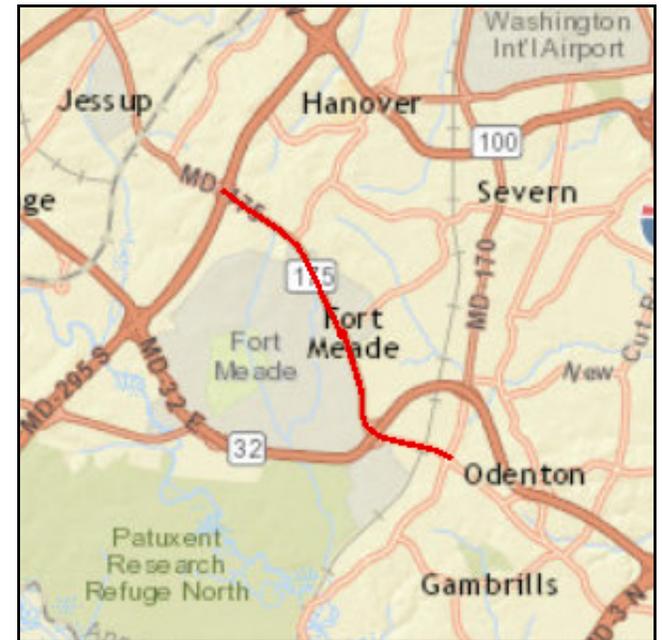
The purpose of this project is to improve access to Fort Meade. The section from MD 295 to MD 32 includes widening from 2 or 4 lanes to 6 lanes. The section from MD 32 to MD 170 includes interchange and intersection improvements. The entire corridor will see bicycle and pedestrian accommodations.

Segment 1, MD 175/MD 295 interchange, from National Business Parkway to McCarron Court, has TIP ID# 61-1701-41. Segment 2, MD 175: Disney Road to Reece Road, has TIP ID# 61-1601-41.

The estimated total cost includes projected funding that will be required to construct the remainder of the corridor improvements. No schedule or funding for remaining segments has been identified.

Justification:

This project will improve safety and operations along MD 175 and ease growing congestion related to BRAC expansion at Fort Meade.



Connection to Long-Range Transportation Planning Goals:

- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.



2017 - 2020 Transportation Improvement Program

MD 175: MD 295 to MD 170

(Funding in Thousands)

Section 1702 High Priority Project

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$232	\$0	\$540	\$0	\$0	\$0	\$0	\$0	\$772
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$232	\$0	\$540	\$0	\$0	\$0	\$0	\$0	\$772
Total	\$232	\$0	\$540	\$0	\$0	\$0	\$0	\$0	\$772

MD 198: MD 295 to MD 32

TIP ID	61-1403-41	Year of Operation	2030
Agency	SHA - Anne Arundel County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Principal Arterial
Conformity Status	Not Exempt	Physical Data	2 to 4 lanes, 2.7 Miles
CIP or CTP ID(s)	AA5101	Est. Total Cost	\$190,800,000

Description:

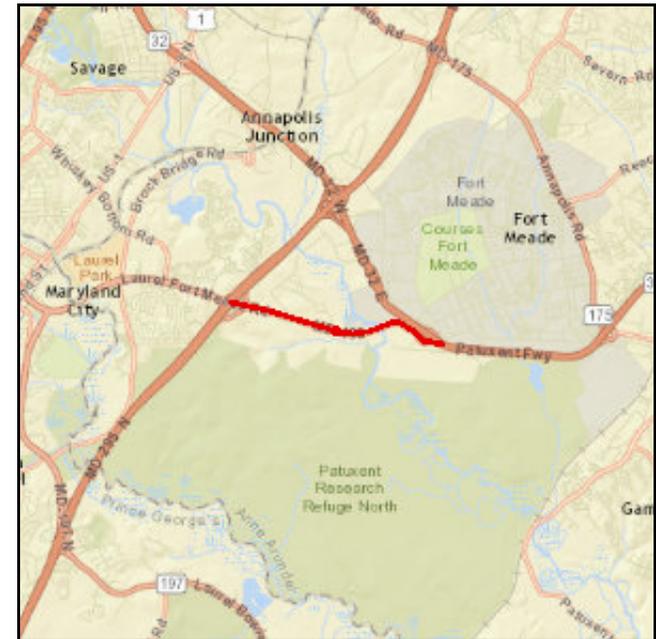
This project will address capacity needs on MD 198 from MD 295 to MD 32. Bicycle and pedestrian access will be provided where appropriate. (BRAC related)

Phase I, MD 198/MD 295 partial interchange project is funded for preliminary engineering. This phase will widen the roadway to add turning lanes; however, it does not add additional through lanes.

The estimated total cost includes projected funding that will be required to construct the remainder of corridor improvements. No schedule or funding for remaining segments have been identified.

Justification:

MD 198 is a key link to Fort Meade from points south and west. The area in and around Fort Meade will experience substantial growth as a result of BRAC expansion.



Connection to Long-Range Transportation Planning Goals:

- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.



MD 198: MD 295 to MD 32

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$850	\$0	\$393	\$0	\$0	\$0	\$0	\$1,243
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$850	\$0	\$393	\$0	\$0	\$0	\$0	\$1,243
Total	\$0	\$850	\$0	\$393	\$0	\$0	\$0	\$0	\$1,243

US 50: MD 70 to MD 2

TIP ID	61-1404-41	Year of Operation	2019
Agency	SHA - Anne Arundel County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Freeway & Expressways
Conformity Status	Not Exempt	Physical Data	6 to 7 lanes, 1.66 miles
CIP or CTP ID(s)	AA2211	Est. Total Cost	\$26,566,000

Description:

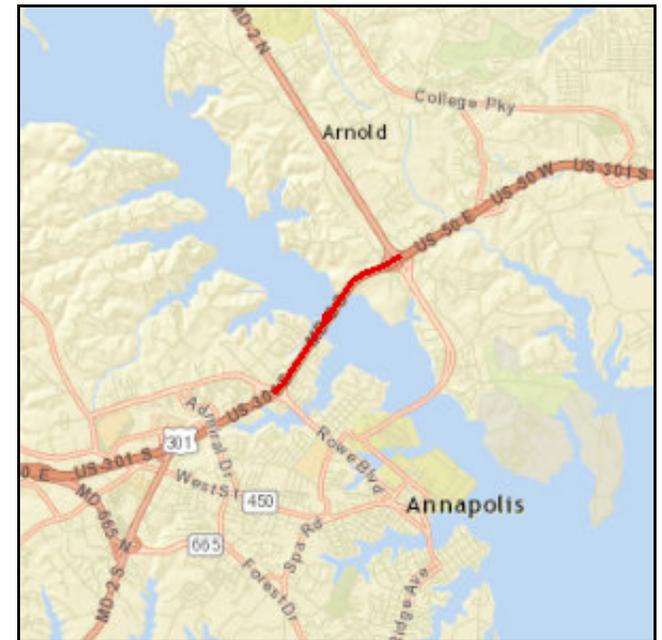
Project to ease congestion on US 50 from MD 70 to MD 2 (northbound), by restriping lanes on the Severn River/Pearl Harbor Memorial Bridge to accommodate one additional eastbound travel lane for the length of the project.

Justification:

The approaches to the Severn River/Pearl Harbor Memorial Bridge experience severe congestion, particularly the eastbound direction during the evening peak period.

Connection to Long-Range Transportation Planning Goals:

- 4. Increase Mobility





2017 - 2020 Transportation Improvement Program

US 50: MD 70 to MD 2

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$14,536	\$0	\$6,531	\$0	\$0	\$21,067
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$1,100	\$0	\$836	\$0	\$0	\$0	\$0	\$1,936
PP	\$0	\$730	\$0	\$0	\$0	\$0	\$0	\$0	\$730
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$1,830	\$0	\$15,372	\$0	\$6,531	\$0	\$0	\$23,733
Total	\$0	\$1,830	\$0	\$15,372	\$0	\$6,531	\$0	\$0	\$23,733

MD 175: Disney Road to Reece Road

TIP ID	61-1601-41	Year of Operation	2020
Agency	SHA - Anne Arundel County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Minor Arterial
Conformity Status	Not Exempt	Physical Data	2 to 6 lanes, 1.13 miles
CIP or CTP ID(s)	AA4364	Est. Total Cost	\$27,901,000

Description:

This project is Phase 2 of the MD 175: MD 295 to MD 170 corridor project, TIP ID #61-0605-41. It will widen MD 175 from Disney Road to Reece Road, from the existing two lane roadway to a six lane roadway. Bicycle and pedestrian facilities will be provided.

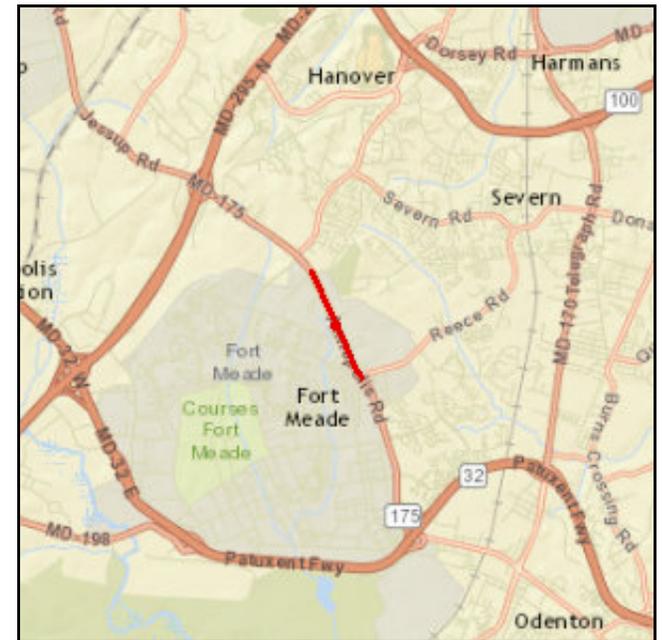
Phase 1, Widening MD 175 through the MD 295 interchange from National Business Parkway to McCarron Court, has TIP ID# 61-1701-41.

Justification:

This project will improve safety and operations along MD 175 and ease growing congestion related to BRAC expansion at Fort Meade.

Connection to Long-Range Transportation Planning Goals:

- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.





MD 175: Disney Road to Reece Road

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$1,844	\$1,931	\$842	\$1,647	\$5,525	\$1,559	\$1,992	\$561	\$15,901
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$289	\$79	\$0	\$0	\$0	\$0	\$0	\$0	\$368
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$2,133	\$2,010	\$842	\$1,647	\$5,525	\$1,559	\$1,992	\$561	\$16,269



MD 175: Disney Road to Reece Road

(Funding in Thousands)

Transportation Investment Generating Economic Recovery

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	\$10,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	\$10,000
Total	\$7,133	\$2,010	\$5,842	\$1,647	\$5,525	\$1,559	\$1,992	\$561	\$26,269

MD 175: National Business Parkway to McCarron Court

TIP ID	61-1701-41	Year of Operation	2021
Agency	SHA - Anne Arundel County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Minor Arterial
Conformity Status	Not Exempt	Physical Data	2 to 6 lanes, 1.1 miles
CIP or CTP ID(s)	AA4363	Est. Total Cost	\$111,389,000

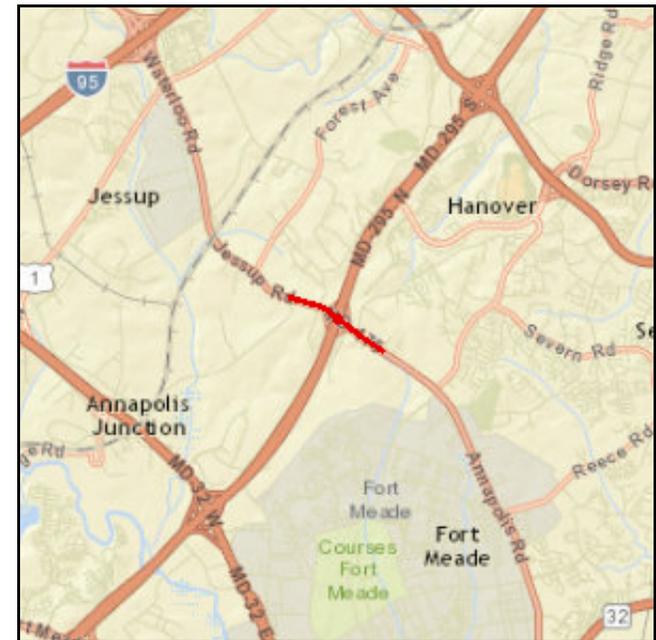
Description:

This project will widen MD 175 from National Business Parkway to McCarron Court from two lanes to six lanes, including through the MD 295 interchange. It also reconfigures ramps in the northeast and southwest quadrants of the MD 295 interchange to create signalized left turns at MD 175. Bicycle and pedestrian facilities will be provided. Construction will continue beyond the FY17-20 TIP with completion anticipated in late fall of 2021.

This project is Phase 1 of the improvements identified in the MD 175: MD 295 to MD 170 corridor project, which has TIP ID # 61-0605-41. Phase 2, widening MD 175 from Disney Road to Reece Road, has TIP ID# 61-1601-41.

Justification:

This project will improve safety and operation along MD 175 and ease growing congestion related to the BRAC expansion at Fort Meade.



Connection to Long-Range Transportation Planning Goals:

- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.



MD 175: National Business Parkway to McCarron Court

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$6,949	\$0	\$15,678	\$22,627
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$6,000	\$0	\$6,272	\$0	\$8,213	\$0	\$0	\$20,485
Subtotal	\$0	\$6,000	\$0	\$6,272	\$0	\$15,162	\$0	\$15,678	\$43,112

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$784	\$196	\$384	\$96	\$0	\$0	\$0	\$0	\$1,460
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$784	\$196	\$384	\$96	\$0	\$0	\$0	\$0	\$1,460
Total	\$784	\$6,196	\$384	\$6,368	\$0	\$15,162	\$0	\$15,678	\$44,572

MD 295: I-895 to North of Daisy Avenue - Noise Wall

TIP ID	63-1405-31	Year of Operation	2017
Agency	SHA - Baltimore County	Project Type	Noise barriers
Project Category	Environmental/Safety	Functional Class	Other Principal Arterial
Conformity Status	Exempt	Physical Data	1.1 Miles
CIP or CTP ID(s)	BA9782	Est. Total Cost	\$11,681,000

Description:

This project will install noise walls along MD 295 to reduce highway noise for residents of the Riverview and Baltimore Highlands communities in Baltimore County. The project will also include the construction of drainage systems to allow stormwater to continue downstream and landscaping (tree plantings and slope treatments).

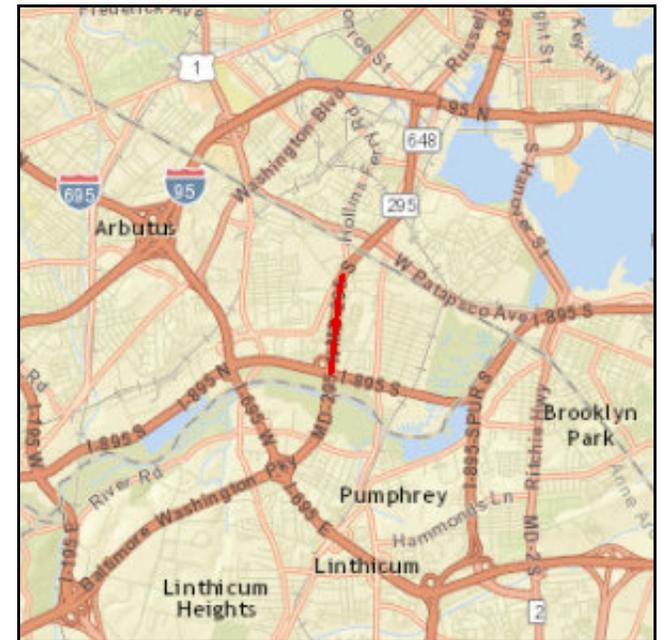
Breakout from Areawide Environmental Projects - 60-9506-38

Justification:

The MD 295 noise wall project will reduce noise impacts to Riverview and Highlands communities in Baltimore County.

Connection to Long-Range Transportation Planning Goals:

5.B Conserve and Enhance the Environment -- Reduce surface runoff.





2017 - 2020 Transportation Improvement Program

MD 295: I-895 to North of Daisy Avenue - Noise Wall

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$2,153	\$389	\$0	\$0	\$0	\$0	\$0	\$0	\$2,542
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$2,153	\$389	\$0	\$0	\$0	\$0	\$0	\$0	\$2,542
Total	\$2,153	\$389	\$0	\$0	\$0	\$0	\$0	\$0	\$2,542

I-695: Low-Cost Operational and Safety Improvements

TIP ID	63-1204-04	Year of Operation	n/a
Agency	SHA - Baltimore County	Project Type	Traffic engineering
Project Category	Emission Reduction Strategy	Functional Class	Interstate
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	XX1551	Est. Total Cost	\$10,599,000

Description:

A traffic analysis using traffic simulation modeling software was conducted by SHA to identify ways to improve operational and overall safety conditions on I-695 from I-95 (Arbutus) to MD 43. Preliminary Engineering will be initiated to advance design of the conceptual operational and safety improvements, while considering the planned widening of I-695. Examples of projects includes I-695: MD 41 to MD 147; elements of which include auxiliary lanes and ramp modifications.

Justification:

These traffic management strategies will increase safety and improve traffic operations, with minor interim improvements. The improvements will ease congestion at choke points along I-695.

Connection to Long-Range Transportation Planning Goals:

- 1.B Improve System Safety -- Apply safety-related management and operations techniques.
- 4. Increase Mobility





I-695: Low-Cost Operational and Safety Improvements

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$1,400	\$600	\$5,005	\$2,145	\$0	\$0	\$0	\$0	\$9,150
PP	\$0	\$161	\$0	\$0	\$0	\$0	\$0	\$0	\$161
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$1,400	\$761	\$5,005	\$2,145	\$0	\$0	\$0	\$0	\$9,311
Total	\$1,400	\$761	\$5,005	\$2,145	\$0	\$0	\$0	\$0	\$9,311

I-695: I-95 to MD 122 (Southwest Beltway)

TIP ID	63-0602-41	Year of Operation	2025
Agency	SHA - Baltimore County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Interstate
Conformity Status	Exempt	Physical Data	6 to 8 Lanes
CIP or CTP ID(s)	AW7581	Est. Total Cost	\$374,500,000

Description:

The overall purpose of this project is to study the six-lane portions of I-695 for widening to an eight-lane freeway from I-95 to MD 122 (Security Boulevard). This umbrella project funded PE in 2014 for two projects that have since been broken out. Funding did not go beyond 30% PE. The I-695 Outer Loop widening project involves the multi-lane reconstruction of the I-695 Outer Loop from South of US 40 to MD 144 and has TIP ID #63-1601-41. The replacement of the bridge along the I-695 Inner Loop over Benson and Leeds/US1/Amtrak/Herbert Run and the realignment of the I-695 Inner Loop ramp from US 1 over Leeds Avenue, and US 1 from Knecht Avenue to Linden Avenue have TIP ID #63-1602-43.

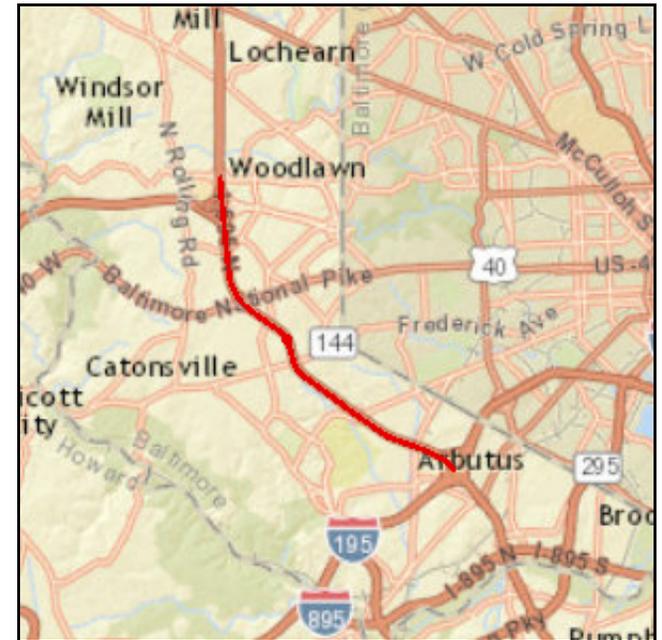
Justification:

The purpose of this project is to improve mobility and safety on I-695 by widening the roadway to provide a fourth mainline lane on the outer and inner loops of the beltway. The project will also provide pavement width to accommodate for the ultimate section of the beltway.

Estimated Total Cost includes projected funding that will be required to construct the remainder of corridor improvements. No schedule or funding for remaining segments have been identified.

Connection to Long-Range Transportation Planning Goals:

- 1.B Improve System Safety -- Apply safety-related management and operations techniques.
- 4. Increase Mobility





2017 - 2020 Transportation Improvement Program

I-695: I-95 to MD 122 (Southwest Beltway)

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

MD 140: Painters Mill Road to Owings Mills Boulevard (Phase 2)

TIP ID	63-0802-41	Year of Operation	2025
Agency	SHA - Baltimore County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Principal Arterial
Conformity Status	Not Exempt	Physical Data	0.75 Mile, 2 to 3 lanes
CIP or CTP ID(s)	BA7291	Est. Total Cost	\$25,316,000

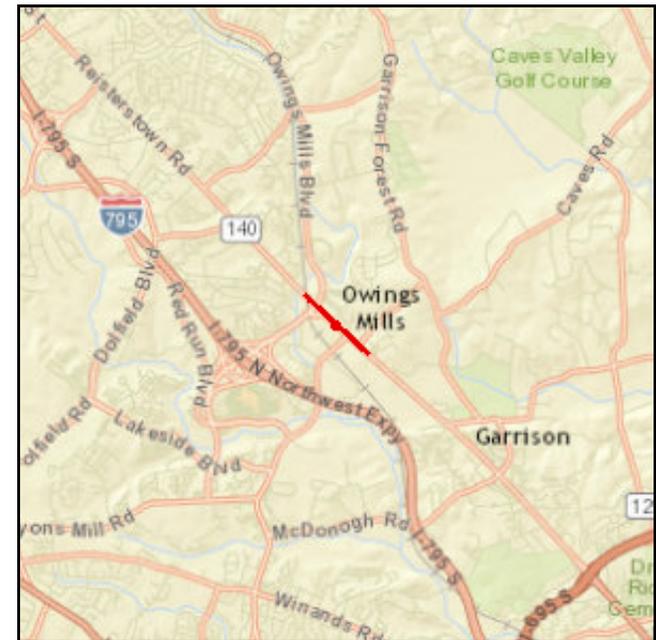
Description:

Capacity and safety improvements to MD 140 from north of Painters Mill Road to Owings Mills Boulevard including; an additional through lane on southbound MD 140, addition of left and right turn lanes, and added width for bicycle compatibility. This results in two through lanes on northbound MD 140 and three through lanes on southbound MD 140. Pedestrian improvements will be provided where appropriate. Estimated Total Cost includes projected funding that will be required to construct this project. No schedule or funding for construction have been determined.

This is phase 2 of MD 140 corridor improvements. Phase I - MD 140: Garrison View Road to Painters Mill Road, including the intersection, has TIP ID #63-1203-41.

Justification:

This project will provide additional capacity and access to planned development in Owings Mills, including the Owings Mills Town Center, the Owings Mills Metro Station, and the MD 140 business corridor. It will improve safety and address operational concerns along MD 140, while reducing delays along the corridor and enhancing pedestrian safety.



Connection to Long-Range Transportation Planning Goals:

- 3.E Improve Accessibility -- Provide or improve pedestrian and bicycle facilities that link to activity centers and public transit.
- 4. Increase Mobility



MD 140: Painters Mill Road to Owings Mills Boulevard (Phase 2)

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$682	\$0	\$422	\$0	\$0	\$0	\$0	\$1,104
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$682	\$0	\$422	\$0	\$0	\$0	\$0	\$1,104
Total	\$0	\$682	\$0	\$422	\$0	\$0	\$0	\$0	\$1,104

I-795: Dolfield Boulevard Interchange

TIP ID	63-0803-46	Year of Operation	2026
Agency	SHA - Baltimore County	Project Type	New interchange
Project Category	Highway Capacity	Functional Class	Interstate
Conformity Status	Not Exempt	Physical Data	Full Interchange, 4 to 6 lanes
CIP or CTP ID(s)	BA4511	Est. Total Cost	\$162,955,000

Description:

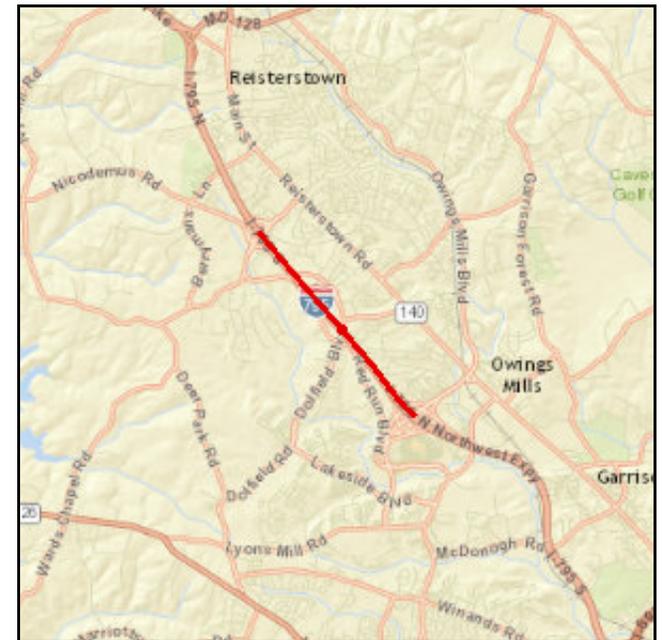
This study has identified a preferred alternative that constructs a new interchange at the existing Pleasant Hill Road overpass. The project also includes widening I-795 from 4 to 6 lanes between Owings Mills and Franklin Boulevards. Funding will take preliminary engineering to the 30% stage, when phasing options will be evaluated. Estimated Total Cost includes projected funding that will be required to construct this project. No schedule or funding for construction have been determined.

Justification:

This project would provide improved access to the planned growth corridor along Red Run Boulevard in Owings Mills.

Connection to Long-Range Transportation Planning Goals:

- 4. Increase Mobility





I-795: Dolfield Boulevard Interchange

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$1,148	\$127	\$890	\$99	\$873	\$97	\$0	\$0	\$3,234
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$1,148	\$127	\$890	\$99	\$873	\$97	\$0	\$0	\$3,234
Total	\$1,148	\$127	\$890	\$99	\$873	\$97	\$0	\$0	\$3,234

MD 140: Garrison View Road to Painters Mill Road - Phase 1

TIP ID	63-1203-41	Year of Operation	2021
Agency	SHA - Baltimore County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Principal Arterial
Conformity Status	Not Exempt	Physical Data	0.2 Miles, 2 to 3 lanes
CIP or CTP ID(s)	BA7292	Est. Total Cost	\$17,715,000

Description:

Improvements include widening northbound MD 140 to provide a third through lane (lane is 16'-wide bicycle-compatible) and 5' raised median, constructing 5' ADA-compliant sidewalks, resurfacing roadway, landscaping, and utility relocations. Southbound improvements to be provided by developer. Culvert and utility work, done under an advanced contract, is complete.

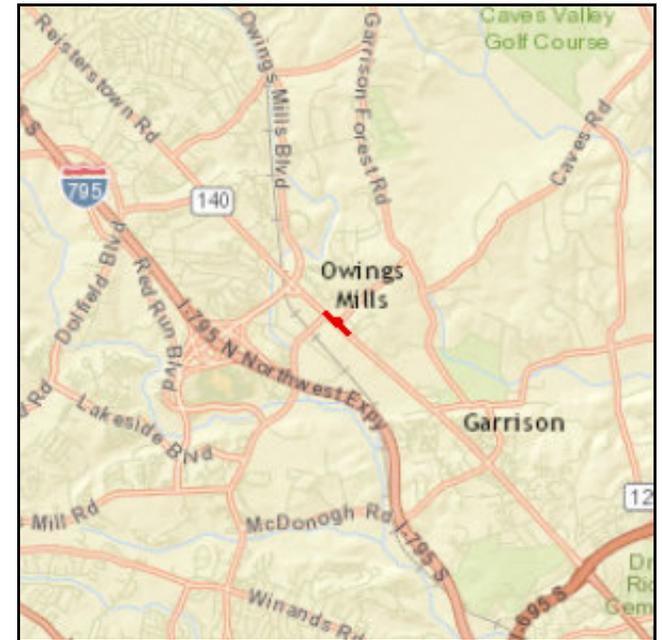
This is phase 1 of MD 140 construction. Phase 2 is the MD 140: North of Painters Mill Road to Owings Mills Boulevard project (TIP ID #63-0802-41).

Justification:

The purpose of this project is to relieve current and anticipated traffic congestion based on background growth and proposed development, including Transit Oriented Development at the Owings Mills Metro Station. The project will address safety and operational concerns along MD 140. It will help reduce overall delays along the corridor and enhance vehicular and pedestrian safety.

Connection to Long-Range Transportation Planning Goals:

- 3.E Improve Accessibility -- Provide or improve pedestrian and bicycle facilities that link to activity centers and public transit.
- 4. Increase Mobility





2017 - 2020 Transportation Improvement Program

MD 140: Garrison View Road to Painters Mill Road - Phase 1

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$1,419	\$0	\$911	\$0	\$1,323	\$0	\$1,012	\$4,665
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$1,419	\$0	\$911	\$0	\$1,323	\$0	\$1,012	\$4,665

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$104	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$129
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$3,805	\$0	\$0	\$0	\$0	\$0	\$0	\$3,805
Subtotal	\$104	\$3,830	\$0	\$0	\$0	\$0	\$0	\$0	\$3,934
Total	\$104	\$5,249	\$0	\$911	\$0	\$1,323	\$0	\$1,012	\$8,599

I-695: MD 41 to MD 147 Auxiliary Lane and MD 147 Inner Loop Ramp Reconstruction

TIP ID	63-1206-41	Year of Operation	2017
Agency	SHA - Baltimore County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Interstate
Conformity Status	Not Exempt	Physical Data	6 to 8 lanes; 1.1 miles
CIP or CTP ID(s)	BA4581	Est. Total Cost	\$33,491,000

Description:

The purpose of this project is to provide a continuous auxiliary lane on both the Inner and Outer Loops of I-695 between MD 41 (Perring Parkway) and MD 147 (Harford Road). Other improvements include a wider median, wider shoulders and replacement of the existing Old Harford Road bridge over I-695, accommodating future widening along I-695.

This project also includes the reconfiguration of an existing one-lane ramp off of the I-695 Inner Loop at MD 147 (Harford Road). The new ramp will increase from one to three lanes, including a double-left and an exclusive right-turn lane. A traffic signal and 350 feet of storage capacity will be provided on MD 147.

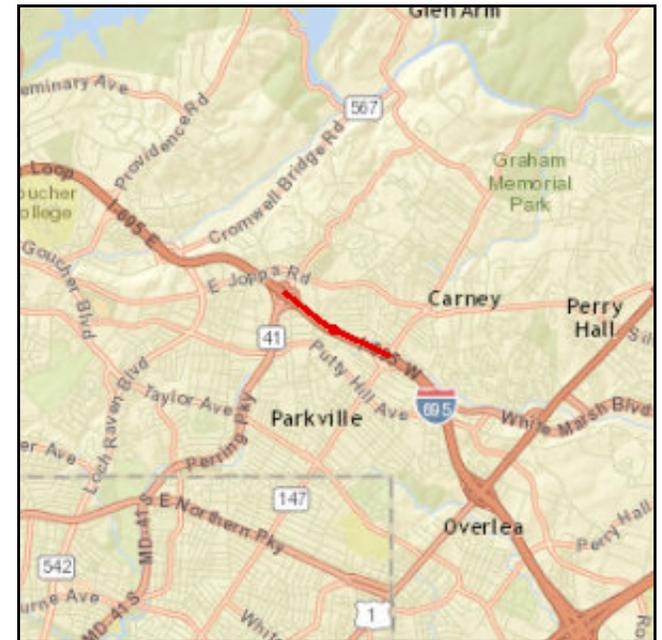
The existing one-lane loop ramp will be removed, eliminating a weave movement on this section of I-695.

Justification:

These changes will increase capacity and improve safety on this segment of the I-695 Beltway.

Connection to Long-Range Transportation Planning Goals:

- 1.B Improve System Safety -- Apply safety-related management and operations techniques.
- 4. Increase Mobility





I-695: MD 41 to MD 147 Auxiliary Lane and MD 147 Inner Loop Ramp Reconstruction

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$8,989	\$0	\$0	\$0	\$0	\$0	\$0	\$8,989
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$8,989	\$0	\$0	\$0	\$0	\$0	\$0	\$8,989



I-695: MD 41 to MD 147 Auxiliary Lane and MD 147 Inner Loop Ramp Reconstruction

(Funding in Thousands)

Section 1702 High Priority Project

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$255	\$39	\$0	\$0	\$0	\$0	\$0	\$0	\$294
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$255	\$39	\$0	\$0	\$0	\$0	\$0	\$0	\$294
Total	\$255	\$9,028	\$0	\$0	\$0	\$0	\$0	\$0	\$9,283

I-695: US 40 to MD 144

TIP ID	63-1601-41	Year of Operation	2021
Agency	SHA - Baltimore County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Interstate
Conformity Status	Not Exempt	Physical Data	3 to 4 lanes
CIP or CTP ID(s)	BA7271	Est. Total Cost	\$102,661,000

Description:

This project will widen I-695 outer loop from US 40 to MD 144 from three to four through lanes. This project will also accommodate the final configuration of this section of the beltway. The noise barrier on the inner loop will be replaced and extended from Shady Nook to US 40 as part of this project.

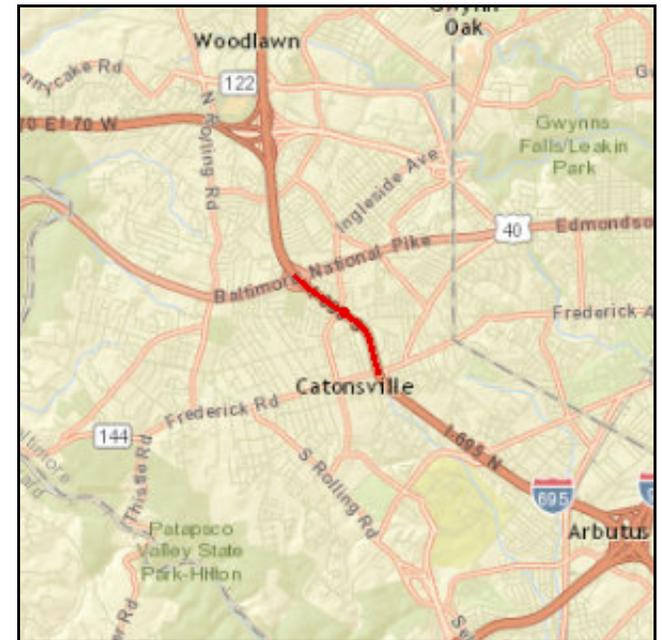
This project is a breakout of the I-695, from I-95 to MD 122, corridor project, which has TIP ID #63-0602-41.

Justification:

This project will provide additional capacity and improve safety and operations on this segment of I-695.

Connection to Long-Range Transportation Planning Goals:

- 1.B Improve System Safety -- Apply safety-related management and operations techniques.
- 4. Increase Mobility





2017 - 2020 Transportation Improvement Program

I-695: US 40 to MD 144

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$12,996	\$1,721	\$15,194	\$2,012	\$15,194	\$3,777	\$10,988	\$11,854	\$73,736
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$57	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$61
Subtotal	\$13,053	\$1,725	\$15,194	\$2,012	\$15,194	\$3,777	\$10,988	\$11,854	\$73,797
Total	\$13,053	\$1,725	\$15,194	\$2,012	\$15,194	\$3,777	\$10,988	\$11,854	\$73,797

I-695: Bridge Replacements at Benson Ave and US 1

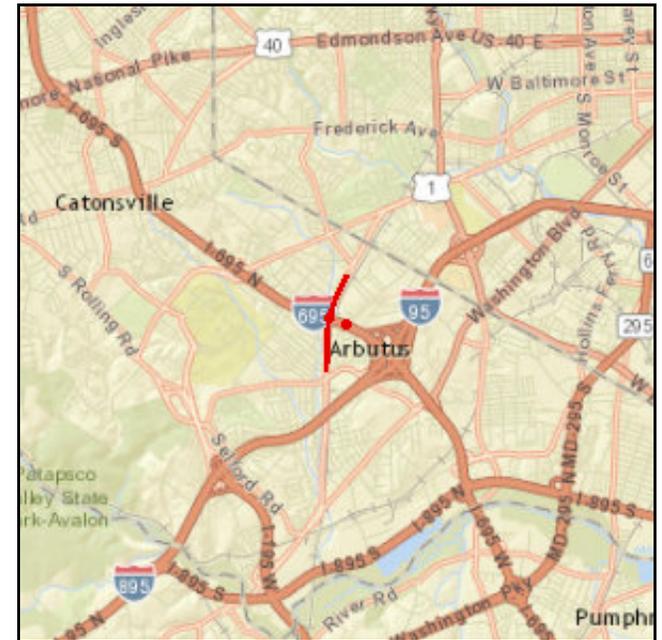
TIP ID	63-1602-43	Year of Operation	2017
Agency	SHA - Baltimore County	Project Type	Bridge widening
Project Category	Highway Capacity	Functional Class	Interstate
Conformity Status	Not Exempt	Physical Data	NA
CIP or CTP ID(s)	BA3661	Est. Total Cost	\$50,466,000

Description:

Replacement of Bridge 0311305 on I-695 Inner Loop over Benson Ave; Bridge 0311405 on I-695 Inner Loop over Leeds Avenue, US 1, AMTRAK and Herbert Run. The project also includes the realignment of access to the I-695 northbound on-ramp from Leeds Ave. to US 1. Both bridges will be widened to accommodate the future widening of I-695 to improve safety. Acceleration lanes, merges, tapers, and gores from I-95 Southbound to the Inner Loop will be extended to meet current standards. No additional lanes are being added at this time. US 1 will be narrowed to one lane in each direction extending approximately 2,400 feet north and south of I-695. A bicycle lane and ADA compliant sidewalks will be added and pavement will be removed for storm water management. This project is a breakout of the larger corridor project, I-695: I-95 to MD 122, which has TIP ID #63-0602-41 and separate funding flows.

Justification:

The bridges on I-695 Inner Loop over Benson and Leeds/US 1/ AMTRAK/ Herbert Run are nearing the end of their useful life and are structurally deficient. An existing ramp is being realigned as part of this project to provide a more direct connection from US 1 to the Inner Loop of I-695 and remove interstate traffic from residential areas.



Connection to Long-Range Transportation Planning Goals:

- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 3.E Improve Accessibility -- Provide or improve pedestrian and bicycle facilities that link to activity centers and public transit.
- 4. Increase Mobility



2017 - 2020 Transportation Improvement Program

I-695: Bridge Replacements at Benson Ave and US 1

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$12,682	\$1,293	\$5,514	\$565	\$0	\$0	\$0	\$0	\$20,054
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$1,593	\$223	\$664	\$76	\$0	\$0	\$0	\$0	\$2,556
Subtotal	\$14,275	\$1,516	\$6,178	\$641	\$0	\$0	\$0	\$0	\$22,610
Total	\$14,275	\$1,516	\$6,178	\$641	\$0	\$0	\$0	\$0	\$22,610

I-695: Bridge Replacement on Crosby Road

TIP ID	63-1702-43	Year of Operation	2021
Agency	SHA - Baltimore County	Project Type	Bridge widening
Project Category	Highway Capacity	Functional Class	Interstate
Conformity Status	Exempt	Physical Data	2 to 2 Lanes
CIP or CTP ID(s)	BA0131	Est. Total Cost	\$6,940,000

Description:

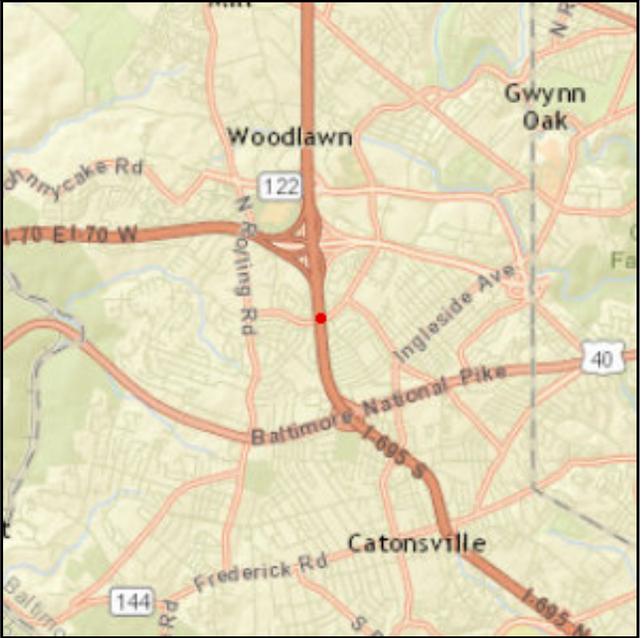
The project will replace bridge no. 03125 along Crosby Road over I-695. The replacement bridge will accommodate future widening of I-695. No additional capacity is being provided at this time. 5 foot shoulders and 5 foot ADA compliant sidewalks are planned on both sides.

Justification:

The existing bridge, built in 1961, is nearing the end of its structural life. The bridge links communities on either side of the bridge.

Connection to Long-Range Transportation Planning Goals:

- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 4. Increase Mobility





2017 - 2020 Transportation Improvement Program

I-695: Bridge Replacement on Crosby Road

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$540	\$0	\$2,655	\$0	\$2,385	\$5,580
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$220	\$0	\$220	\$0	\$220	\$0	\$73	\$733
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$220	\$0	\$760	\$0	\$2,875	\$0	\$2,458	\$6,313
Total	\$0	\$220	\$0	\$760	\$0	\$2,875	\$0	\$2,458	\$6,313

I-70 & I-695: Triple Bridges Study

TIP ID	63-1705-43	Year of Operation	2025
Agency	SHA - Baltimore County	Project Type	Bridge widening
Project Category	Highway Capacity	Functional Class	Interstate
Conformity Status	Exempt	Physical Data	TBD
CIP or CTP ID(s)	BA0201	Est. Total Cost	\$1,000,000

Description:

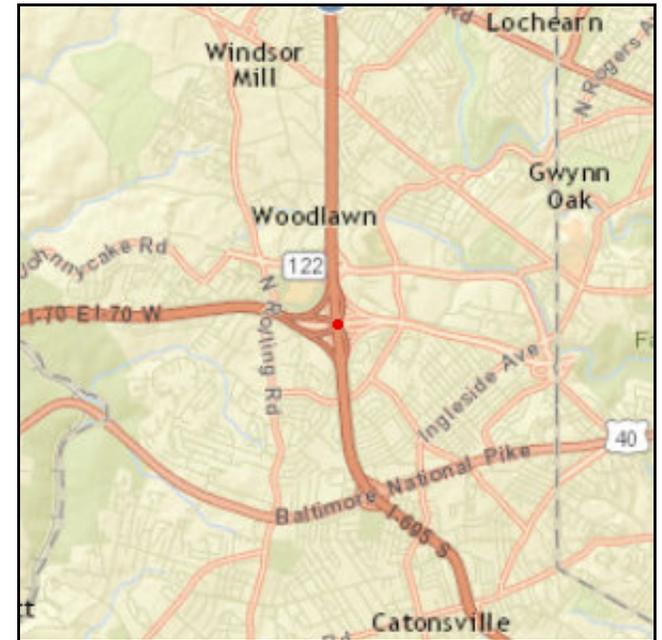
The project is the I-70/I-695 triple bridges study to replace or rehabilitate bridges no. 0312703, 0312704, 0312805, 0312806, 0312903 and 0312904. The project is funded for project planning only.

Justification:

The bridges are nearing the end of their structural lives.

Connection to Long-Range Transportation Planning Goals:

- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 4. Increase Mobility





I-70 & I-695: Triple Bridges Study

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$600
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$600
Total	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$600

MD 25: Bridge Replacement over Georges Run

TIP ID	63-1603-13	Year of Operation	2016
Agency	SHA - Baltimore County	Project Type	Bridge repair/deck replacement
Project Category	Highway Preservation	Functional Class	Major Collector
Conformity Status	Exempt	Physical Data	Bridge Replacement, 2 to 2 Lanes
CIP or CTP ID(s)	BA8101	Est. Total Cost	\$5,062,000

Description:

Replace bridge #0301900 along MD 25, Falls Road, over Georges Run. The new bridge will include a 5 foot shoulder on both sides of the roadway.

Justification:

The bridge is nearing the end of its structural life and needs to be replaced.

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).





MD 25: Bridge Replacement over Georges Run

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$75	\$19	\$56	\$15	\$0	\$0	\$0	\$0	\$165
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$75	\$19	\$56	\$15	\$0	\$0	\$0	\$0	\$165



MD 25: Bridge Replacement over Georges Run

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$81	\$0	\$0	\$0	\$0	\$0	\$0	\$81
Subtotal	\$0	\$81	\$0	\$0	\$0	\$0	\$0	\$0	\$81
Total	\$75	\$100	\$56	\$15	\$0	\$0	\$0	\$0	\$246

I-83: Bridge Replacement over Padonia Road

TIP ID	63-1701-13	Year of Operation	2019
Agency	SHA - Baltimore County	Project Type	Bridge repair/deck replacement
Project Category	Highway Preservation	Functional Class	Other Principal Arterial
Conformity Status	Exempt	Physical Data	3 to 3 Lanes
CIP or CTP ID(s)	BA0381	Est. Total Cost	\$10,941,000

Description:

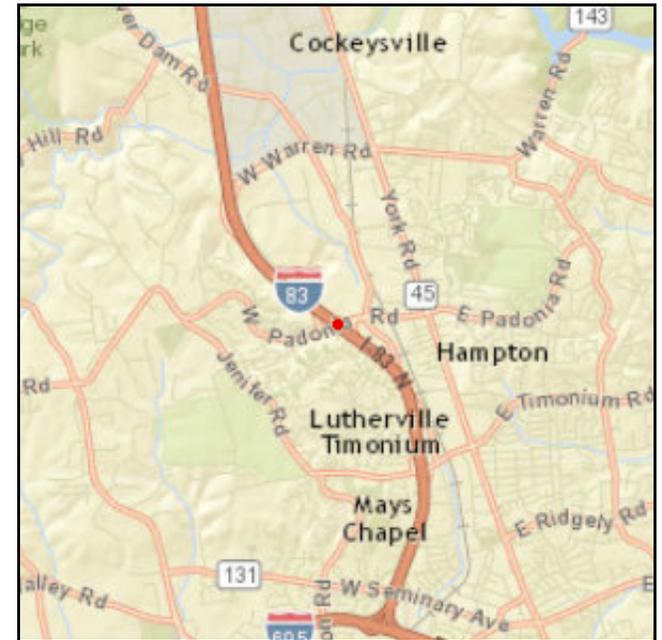
Replace bridge no. 03062 along I-83 over Padonia Road, which carries both northbound and southbound traffic.

Justification:

The existing bridge, constructed in 1950, is functionally obsolete and structurally deficient. The bridge serves as a major link along the I-83 commuter and freight route from southern Pennsylvania to Baltimore County and City.

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).





2017 - 2020 Transportation Improvement Program

I-83: Bridge Replacement over Padonia Road

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$2,600	\$0	\$7,400	\$0	\$0	\$10,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$412	\$0	\$0	\$0	\$0	\$0	\$0	\$412
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$412	\$0	\$2,600	\$0	\$7,400	\$0	\$0	\$10,412
Total	\$0	\$412	\$0	\$2,600	\$0	\$7,400	\$0	\$0	\$10,412

MD 137: Bridge Replacement over I-83

TIP ID	63-1703-13	Year of Operation	2018
Agency	SHA - Baltimore County	Project Type	Bridge repair/deck replacement
Project Category	Highway Preservation	Functional Class	Minor Arterial
Conformity Status	Exempt	Physical Data	2 to 2 Lanes
CIP or CTP ID(s)	BA0801	Est. Total Cost	\$4,799,000

Description:

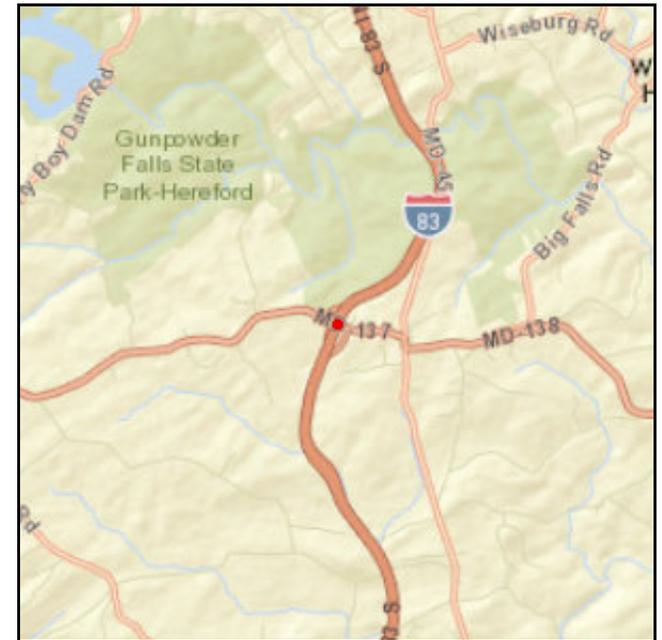
The project replaces bridge no. 03050 along MD 137 (Mount Carmel Road) over I-83. A 5 foot shoulder is planned on both sides of the roadway.

Justification:

The existing bridge was built in 1955 and is structurally deficient. The bridge links communities on either side of I-83.

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).





MD 137: Bridge Replacement over I-83

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$1,040	\$0	\$2,960	\$0	\$0	\$0	\$0	\$4,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$1,040	\$0	\$2,960	\$0	\$0	\$0	\$0	\$4,000
Total	\$0	\$1,040	\$0	\$2,960	\$0	\$0	\$0	\$0	\$4,000

US 1: Bridge Replacement over CSX

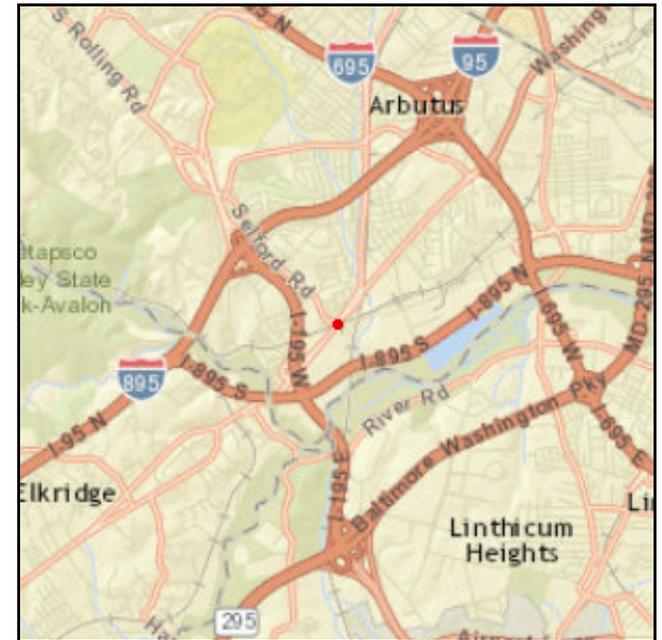
TIP ID	63-1704-13	Year of Operation	2019
Agency	SHA - Baltimore County	Project Type	Bridge repair/deck replacement
Project Category	Highway Preservation	Functional Class	Minor Arterial
Conformity Status	Exempt	Physical Data	4 to 4 Lanes
CIP or CTP ID(s)	BA5341	Est. Total Cost	\$25,236,000

Description:

The project will replace bridge no. 03008 along US 1 (Washington Boulevard) over CSX railroad track and property. An 8 foot shoulder is planned on both sides of the roadway.

Justification:

The existing bridge, built in 1930, is structurally deficient.



Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).



US 1: Bridge Replacement over CSX

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$5,250	\$0	\$19,750	\$0	\$0	\$25,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$0	\$0	\$5,250	\$0	\$19,750	\$0	\$0	\$25,000
Total	\$0	\$0	\$0	\$5,250	\$0	\$19,750	\$0	\$0	\$25,000

US 40: Bridge Replacements over Little & Big Gunpowder Falls

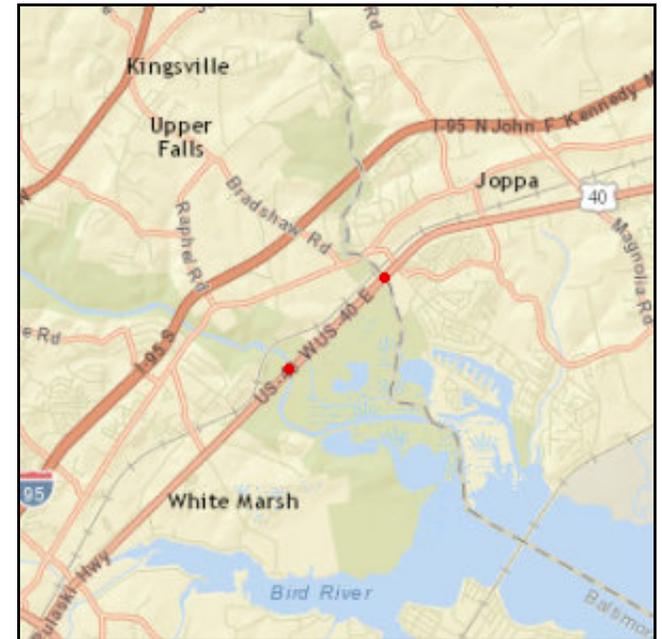
TIP ID	63-1706-13	Year of Operation	2018
Agency	SHA - Baltimore County	Project Type	Bridge repair/deck replacement
Project Category	Highway Preservation	Functional Class	Other Principal Arterial
Conformity Status	Exempt	Physical Data	4 to 4 lanes
CIP or CTP ID(s)	BA6091	Est. Total Cost	\$12,396,000

Description:

This project will replace and widen the superstructure on bridges #0303403 and #0303404 along eastbound and westbound US 40 over Little Gunpowder Falls and bridges #0303503 and #0303504 along eastbound and westbound US 40 over Big Gunpowder Falls. The new bridge superstructures will maintain two 12 foot lanes on each bridge, as well as 4 foot inside shoulders and 10 foot outside shoulders to match the approach roadways.

Justification:

The existing bridges, built in 1935, are structurally deficient.



Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).



2017 - 2020 Transportation Improvement Program

US 40: Bridge Replacements over Little & Big Gunpowder Falls

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$3,950	\$0	\$6,050	\$0	\$0	\$0	\$0	\$10,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$3,950	\$0	\$6,050	\$0	\$0	\$0	\$0	\$10,000
Total	\$0	\$3,950	\$0	\$6,050	\$0	\$0	\$0	\$0	\$10,000

MD 32: MD 26 to I-70 Corridor Study

TIP ID	64-1703-41	Year of Operation	2017
Agency	SHA - Carroll County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Principal Arterial
Conformity Status	Exempt	Physical Data	7.5 miles
CIP or CTP ID(s)	AWNEW1	Est. Total Cost	\$1,250,000

Description:

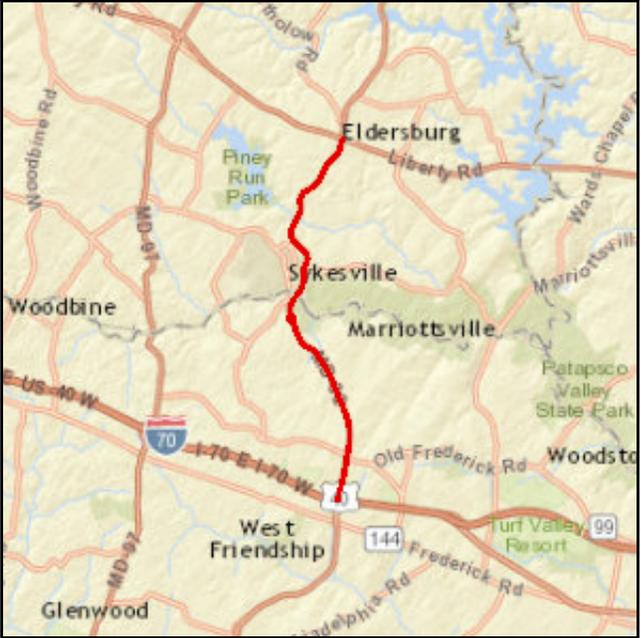
The project is a Planning and Environmental Linkages (PEL) study to determine capacity and safety improvements along MD 32 (Sykesville Road) from MD 26 (Liberty Road) to I-70 in Howard County (7.5 miles). The project is funded for pre-NEPA project planning only.

Justification:

Roadway connects high growth area of Carroll County with growing job markets in Howard County and around Fort Meade.

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 4. Increase Mobility





MD 32: MD 26 to I-70 Corridor Study

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$800
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$800
Total	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$800

MD 30 Business: North Woods Trail to CSX Railroad (Hampstead Community Safety & Enhancement)

TIP ID	64-1401-19	Year of Operation	2019
Agency	SHA - Carroll County	Project Type	Other
Project Category	Highway Preservation	Functional Class	Other Principal Arterial
Conformity Status	Exempt	Physical Data	1.58 miles, 2 to 2 lanes
CIP or CTP ID(s)	CL3411	Est. Total Cost	\$24,306,000

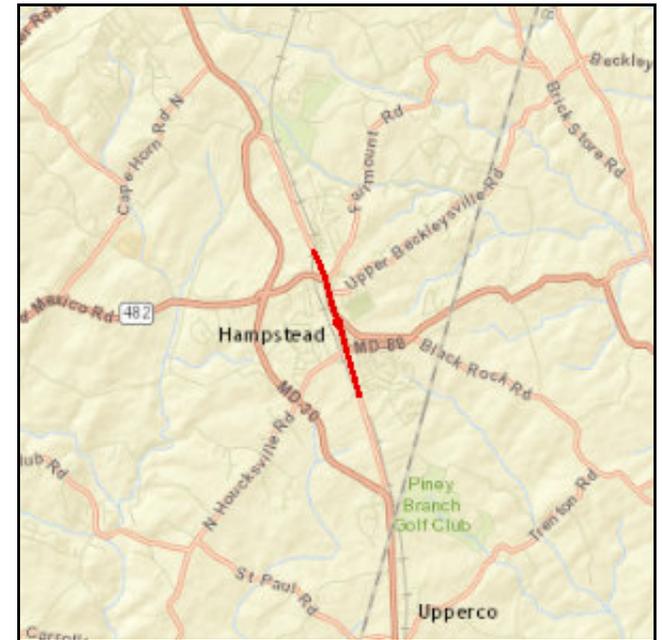
Description:

The purpose of this project is to provide improvements on MD 30 Business (Main Street in Hampstead) from North Woods Trail to CSX Railroad including reconstruction of the existing roadway with ADA compliant sidewalks on both sides of the street, curb and gutter, crosswalks, and driveway entrances. The project will also upgrade the drainage system, stormwater management facilities, landscaping, traffic signals, and utility relocations as necessary. Because of the low speeds and constrained urban environment, bicycles will be accommodated in mixed traffic in the travel lanes.

Justification:

This project will provide significant improvements to the roadway, sidewalk and drainage infrastructure in the town of Hampstead. It will also address operational issues at intersections.

* Preliminary engineering and right-of-way phases were funded under the Areawide Urban Reconstruction Program.



Connection to Long-Range Transportation Planning Goals:

- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 3.B Improve Accessibility -- Improve ADA-related conditions for pedestrians / transit riders.



MD 30 Business: North Woods Trail to CSX Railroad (Hampstead Community Safety & Enhancement)

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$6,033	\$0	\$8,792	\$0	\$4,686	\$0	\$0	\$19,511
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$6,033	\$0	\$8,792	\$0	\$4,686	\$0	\$0	\$19,511
Total	\$0	\$6,033	\$0	\$8,792	\$0	\$4,686	\$0	\$0	\$19,511

MD 86: Bridge Replacement over Gunpowder Falls

TIP ID	64-1701-13	Year of Operation	2018
Agency	SHA - Carroll County	Project Type	Bridge repair/deck replacement
Project Category	Highway Preservation	Functional Class	Major Collector
Conformity Status	Exempt	Physical Data	2 to 2 Lanes
CIP or CTP ID(s)	CL2391	Est. Total Cost	\$6,219,000

Description:

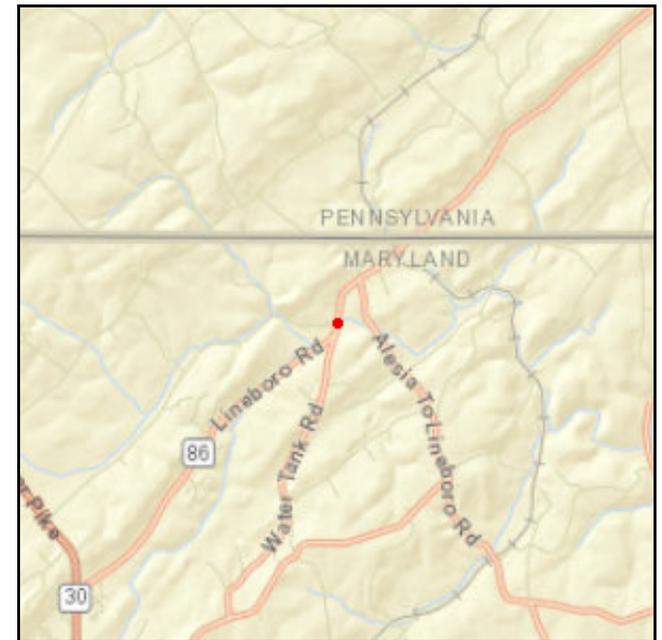
The project will replace bridge no. 06019 along MD 86 (Lineboro Road) over the South Branch of Gunpowder Falls. A 5 foot minimum shoulder is planned on both sides of the road.

Justification:

The existing bridge, built in 1929, is structurally deficient.

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).





MD 86: Bridge Replacement over Gunpowder Falls

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$1,300	\$0	\$3,700	\$0	\$0	\$0	\$0	\$5,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$1,300	\$0	\$3,700	\$0	\$0	\$0	\$0	\$5,000
Total	\$0	\$1,300	\$0	\$3,700	\$0	\$0	\$0	\$0	\$5,000

MD 496: Bridge Replacement over Big Pipe Creek

TIP ID	64-1702-13	Year of Operation	2019
Agency	SHA - Carroll County	Project Type	Bridge repair/deck replacement
Project Category	Highway Preservation	Functional Class	Major Collector
Conformity Status	Exempt	Physical Data	2 to 2 Lanes
CIP or CTP ID(s)	CL4031	Est. Total Cost	\$3,599,000

Description:

The project will replace bridge no. 06038 along MD 496 (Bachmans Valley Road) over Big Pipe Creek. A 5 foot minimum shoulder is planned on both sides of the roadway.

Justification:

The existing structure, built in 1932, is structurally deficient.

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).





MD 496: Bridge Replacement over Big Pipe Creek

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$930	\$0	\$2,070	\$0	\$0	\$3,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$0	\$0	\$930	\$0	\$2,070	\$0	\$0	\$3,000
Total	\$0	\$0	\$0	\$930	\$0	\$2,070	\$0	\$0	\$3,000

MD 22: Beards Hill Road Intersection Reconstruction

TIP ID	65-1205-41	Year of Operation	2017
Agency	SHA - Harford County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Freeway & Expressways
Conformity Status	Not Exempt	Physical Data	Intersection, 4 to 6 Lanes
CIP or CTP ID(s)	HA3484	Est. Total Cost	\$16,504,000

Description:

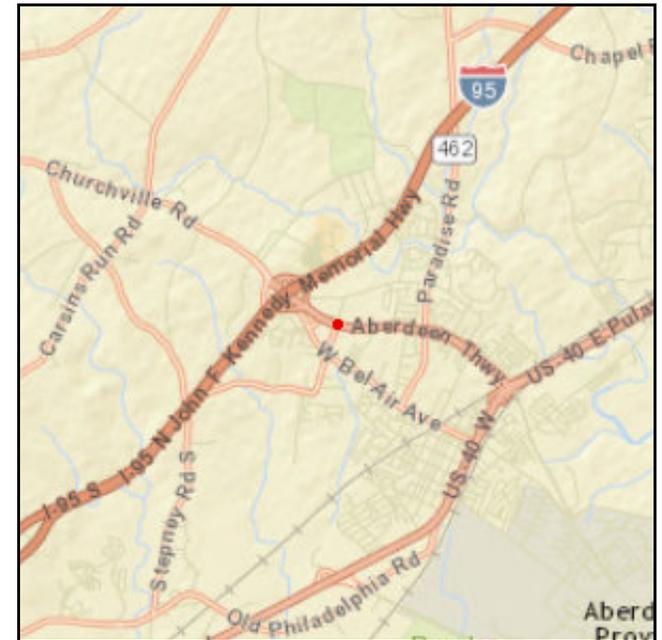
The project includes adding an additional lane on MD 22 eastbound and westbound (outside widening) and an additional left-turn lane from MD 22 eastbound to Beards Hill Road. This results in a capacity increase from two to three through lanes both eastbound and westbound.

The existing left-turn lanes on Beards Hill Road will be widened to double left-turn lanes on each approach to MD 22.

Funds allocated for the PE phase were reflected in the BRAC near Aberdeen Proving Grounds project (TIP ID #65-0804-39).

Justification:

Improved access to Aberdeen Proving Ground is a vital component needed to accommodate the increase of employment as a result of BRAC. The intersection improvements will improve safety, capacity and operations in the near-term.



Connection to Long-Range Transportation Planning Goals:

- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.



2017 - 2020 Transportation Improvement Program

MD 22: Beards Hill Road Intersection Reconstruction

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$4,685	\$996	\$0	\$0	\$0	\$0	\$0	\$0	\$5,681
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$404	\$107	\$461	\$116	\$0	\$0	\$0	\$0	\$1,088
Subtotal	\$5,089	\$1,103	\$461	\$116	\$0	\$0	\$0	\$0	\$6,769
Total	\$5,089	\$1,103	\$461	\$116	\$0	\$0	\$0	\$0	\$6,769

US 40: MD 7 & MD 159 Intersection Reconstruction - Phase 2

TIP ID	65-1402-41	Year of Operation	2019
Agency	SHA - Harford County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Principal Arterial
Conformity Status	Not Exempt	Physical Data	Intersection, 4 to 6 Lanes
CIP or CTP ID(s)	HA3487	Est. Total Cost	\$19,244,000

Description:

The project includes widening US 40 from two through lanes to three through lanes in each direction, plus added turn lanes. West bound US 40 widening will extend approximately 2,500 feet west of MD 7. East bound US 40 widening will extend approximately 3,000 feet east to tie into previous widening at the MD 715 interchange. MD 159 will be modified to tie into US 40 eastbound widening. The bridge over Cranberry Run will also be widened.

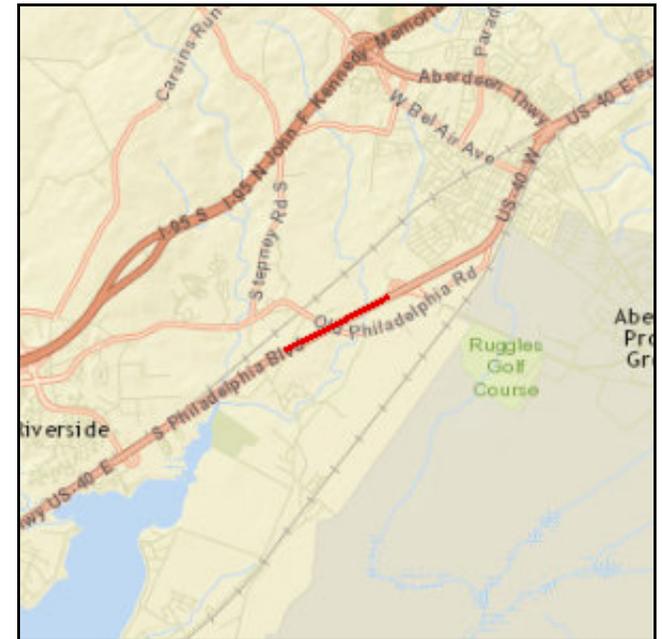
Funds allocated for the PE phase were reflected in the Areawide Project for BRAC near Aberdeen Proving Ground (TIP ID #65-0804-39).

Justification:

Improved access to Aberdeen Proving Ground is a vital component needed to accommodate the increase of employment as a result of BRAC. The intersection improvements will improve safety, capacity and operations in the near-term.

Connection to Long-Range Transportation Planning Goals:

- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.





2017 - 2020 Transportation Improvement Program

US 40: MD 7 & MD 159 Intersection Reconstruction - Phase 2

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$3,228	\$1,904	\$4,118	\$1,892	\$2,710	\$1,244	\$0	\$0	\$15,096
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$3,228	\$1,904	\$4,118	\$1,892	\$2,710	\$1,244	\$0	\$0	\$15,096



2017 - 2020 Transportation Improvement Program

US 40: MD 7 & MD 159 Intersection Reconstruction - Phase 2

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$306	\$508	\$0	\$123	\$0	\$0	\$0	\$0	\$937
Subtotal	\$306	\$508	\$0	\$123	\$0	\$0	\$0	\$0	\$937
Total	\$3,534	\$2,412	\$4,118	\$2,015	\$2,710	\$1,244	\$0	\$0	\$16,033

MD 22: Paradise Road Intersection Reconstruction

TIP ID	65-1403-41	Year of Operation	2017
Agency	SHA - Harford County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Freeway & Expressways
Conformity Status	Not Exempt	Physical Data	4 to 6 lanes
CIP or CTP ID(s)	HA3483	Est. Total Cost	\$19,776,000

Description:

The project will provide an additional lane in each direction on MD 22 between MD 462 and Beards Hill Road intersections, which results in three through lanes in each direction. MD 462 will be widened to provide exclusive left and right-turn lanes in both northbound and southbound directions. Sound Barriers will be installed along MD 22 east of MD 462. Bicycle-compatible shoulders are being provided along MD 22 in accordance with SHA bike policy.

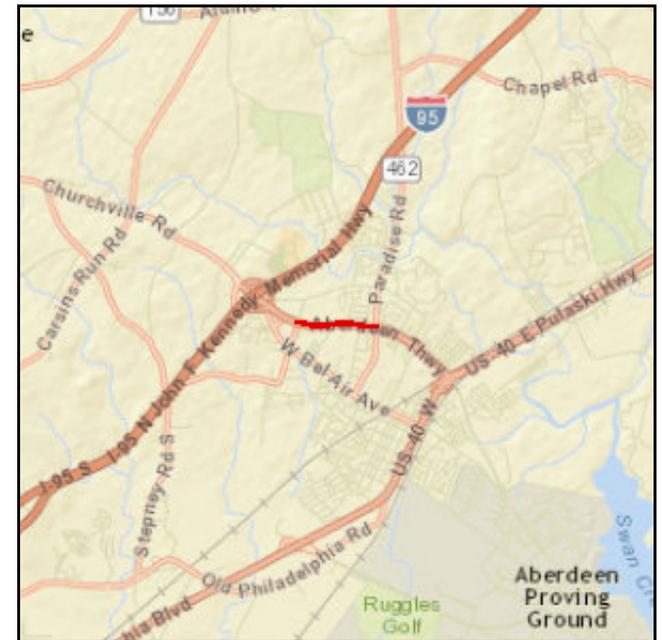
Funds allocated for the PE phase are reflected in the BRAC near Aberdeen Proving Grounds project (TIP ID #65-0804-39).

Justification:

Improved access to Aberdeen Proving Ground is a vital component needed to accommodate the increase of employment as a result of BRAC. The intersection improvements will improve safety, capacity and operations in the near-term.

Connection to Long-Range Transportation Planning Goals:

- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 4. Increase Mobility





2017 - 2020 Transportation Improvement Program

MD 22: Paradise Road Intersection Reconstruction

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$3,403	\$1,392	\$1,666	\$681	\$0	\$0	\$0	\$0	\$7,142
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$361	\$99	\$331	\$91	\$0	\$0	\$0	\$0	\$882
Subtotal	\$3,764	\$1,491	\$1,997	\$772	\$0	\$0	\$0	\$0	\$8,024
Total	\$3,764	\$1,491	\$1,997	\$772	\$0	\$0	\$0	\$0	\$8,024

MD 22: Old Post Road Intersection Reconstruction

TIP ID	65-1202-12	Year of Operation	2016
Agency	SHA - Harford County	Project Type	Road reconstruction
Project Category	Highway Preservation	Functional Class	Other Freeway & Expressways
Conformity Status	Exempt	Physical Data	
CIP or CTP ID(s)	HA3485	Est. Total Cost	\$9,463,000

Description:

This project will complete a number of improvements on MD 22 at Old Post Road, including: an additional through lane on eastbound MD 22, an additional through lane and an auxiliary lane on westbound MD 22, a second left-turn lane from eastbound MD 22 to northbound Old Post Road, additional right turn lanes from MD 22 to Old Post Road (both directions), and a wide outside lane to accommodate bicyclists and pedestrians on Old Post Road.

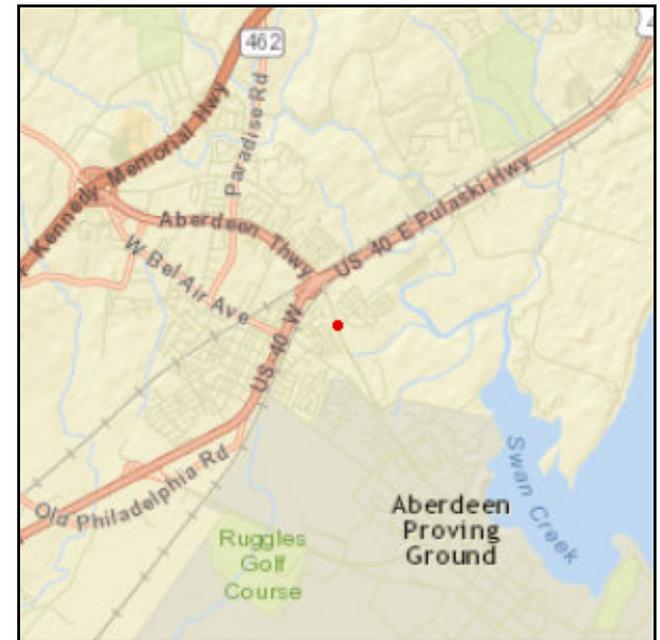
Justification:

The purpose of the project is to improve the operation and safety of MD 22 at Old Post Road. It will improve access to Aberdeen Proving Ground to support BRAC expansion.

Funds allocated for the PE phase are reflected in the BRAC near Aberdeen Proving Grounds project (TIP ID #65-0804-39).

Connection to Long-Range Transportation Planning Goals:

- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and





MD 22: Old Post Road Intersection Reconstruction

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$293	\$55	\$0	\$0	\$0	\$0	\$0	\$0	\$348
Subtotal	\$293	\$55	\$0	\$0	\$0	\$0	\$0	\$0	\$348
Total	\$293	\$55	\$0	\$0	\$0	\$0	\$0	\$0	\$348

MD 24: South of Stirrup Run Culvert to Deer Creek Bridge, Section G

TIP ID	65-1601-12	Year of Operation	
Agency	SHA - Harford County	Project Type	Road reconstruction
Project Category	Highway Preservation	Functional Class	Major Collector
Conformity Status	Exempt	Physical Data	1.8 Miles
CIP or CTP ID(s)	HA3342	Est. Total Cost	\$10,682,000

Description:

MD 24 will be resurfaced and reconstructed including slope repair and guardrail replacement. This is the southern section (Section G) of MD 24, Rocks Road, from 900 feet south of Sharon Road to 1,700 feet north of Ferncliff Lane.

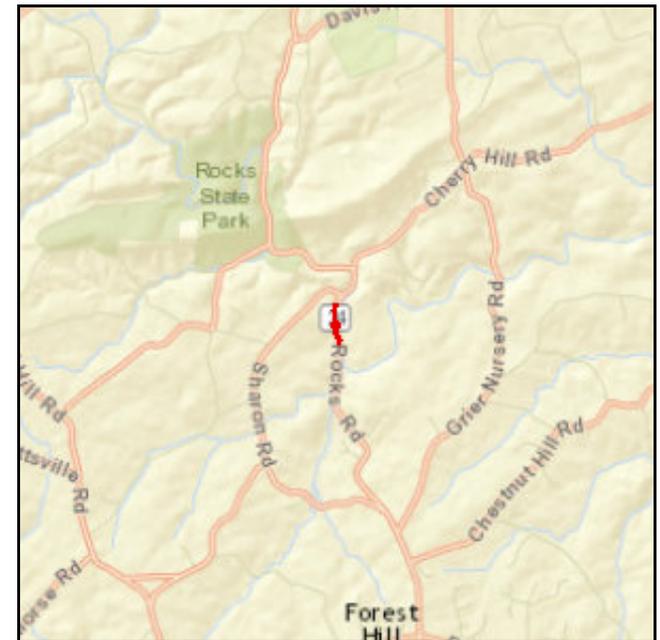
Estimated Total Cost includes estimated funding to complete construction of this project. A schedule and funding for construction have yet to be determined.

Justification:

The purpose of this project is to improve road safety by remediating the slope supporting MD 24, repairing the pavement, improving roadway drainage and addressing roadside safety concerns.

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).





MD 24: South of Stirrup Run Culvert to Deer Creek Bridge, Section G

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$260	\$90	\$245	\$85	\$0	\$0	\$0	\$0	\$680
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$260	\$90	\$245	\$85	\$0	\$0	\$0	\$0	\$680



MD 24: South of Stirrup Run Culvert to Deer Creek Bridge, Section G

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$137	\$0	\$0	\$0	\$0	\$137
Subtotal	\$0	\$0	\$0	\$137	\$0	\$0	\$0	\$0	\$137
Total	\$260	\$90	\$245	\$222	\$0	\$0	\$0	\$0	\$817

I-95: Montgomery Road to I-895 Noise Barrier

TIP ID	66-1701-31	Year of Operation	2018
Agency	SHA - Howard County	Project Type	Noise barriers
Project Category	Environmental/Safety	Functional Class	Interstate
Conformity Status	Exempt	Physical Data	7,000 Linear Feet
CIP or CTP ID(s)	HO4881	Est. Total Cost	\$12,768,000

Description:

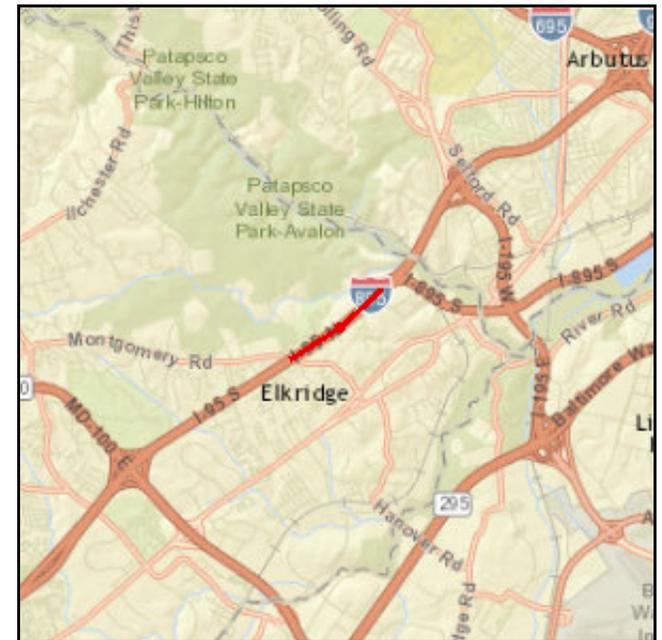
The project will construct a noise wall along I-95, from the Montgomery Road overpass to the I-895 interchange. Construction began in Fall of 2015. Previously, this was a system preservation project funded under TIP ID #60-9506-38.

Justification:

The project will reduce noise generated by traffic along I-95 in the Lawyers Hill community.

Connection to Long-Range Transportation Planning Goals:

5.E Conserve and Enhance the Environment -- Preserve and protect natural and cultural resources.





I-95: Montgomery Road to I-895 Noise Barrier

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$6,446	\$0	\$2,838	\$0	\$0	\$0	\$0	\$9,284
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$6,446	\$0	\$2,838	\$0	\$0	\$0	\$0	\$9,284
Total	\$0	\$6,446	\$0	\$2,838	\$0	\$0	\$0	\$0	\$9,284

US 29: Seneca Drive to MD 175 - Phase 1B

TIP ID	66-1101-41	Year of Operation	2017
Agency	SHA - Howard County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Freeway & Expressways
Conformity Status	Not Exempt	Physical Data	5 to 6 lanes; 2.8 miles
CIP or CTP ID(s)	HO3171	Est. Total Cost	\$35,068,000

Description:

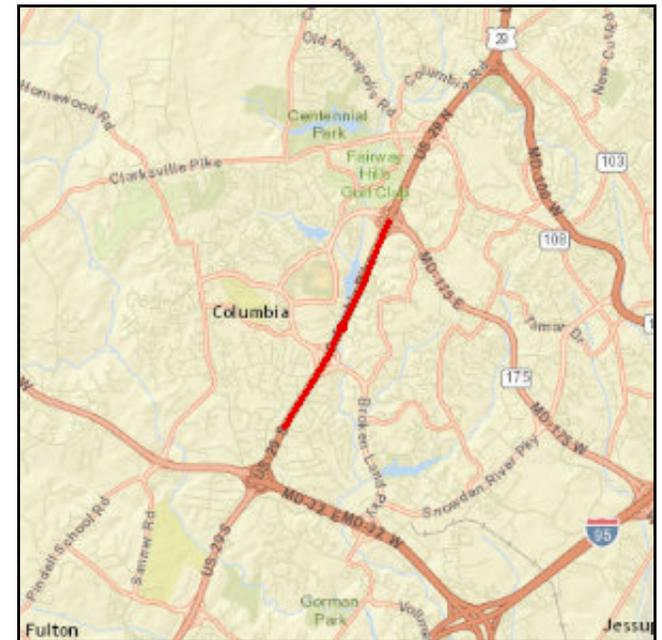
The US 29 northbound widening project from Seneca Drive to south of MD 175, a distance of 2.8 miles, includes widening into the median to add a third lane. The improvement will extend the acceleration and deceleration lanes at the Seneca Drive interchange and remove the existing access point at Gales Lane.

Justification:

The project will improve safety and reduce congestion by upgrading northbound US 29 to match the southbound section, which is currently 3 lanes.

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 4. Increase Mobility





2017 - 2020 Transportation Improvement Program

US 29: Seneca Drive to MD 175 - Phase 1B

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$7,206	\$0	\$0	\$0	\$0	\$0	\$0	\$7,206
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$88	\$243	\$0	\$243	\$0	\$0	\$0	\$0	\$574
Subtotal	\$88	\$7,449	\$0	\$243	\$0	\$0	\$0	\$0	\$7,780
Total	\$88	\$7,449	\$0	\$243	\$0	\$0	\$0	\$0	\$7,780

US 29: Middle Patuxent River to Seneca Drive - Phase 2

TIP ID	66-1406-41	Year of Operation	2030
Agency	SHA - Howard County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Freeway & Expressways
Conformity Status	Not Exempt	Physical Data	5 to 6 lanes; 1.7 miles
CIP or CTP ID(s)	HO3173	Est. Total Cost	\$63,024,000

Description:

Widen the northbound section of US 29 from the Middle Patuxent River to Seneca Drive (Phase 2) from 2 to 3 lanes (1.7 miles). This project includes intersection improvements at Rivers Edge Road.

Related projects include: US 29: Seneca Drive to MD 175 - Phase 1A, Old Columbia Road Access Only (TIP ID # 66-1601-42) as well as US 29: Seneca Lane to MD 175 - Phase 1B (TIP ID # 66-1101-41).

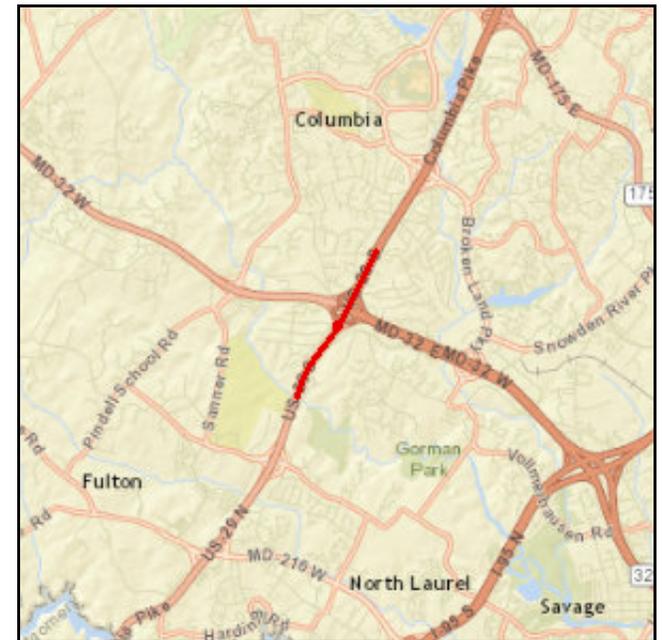
The estimated total cost includes projected funding that will be required to construct this project. No schedule or funding for construction have been identified.

Justification:

This project will improve safety and reduce congestion by upgrading northbound US 29 to match the southbound section, which is currently 3 lanes in each direction.

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 4. Increase Mobility





2017 - 2020 Transportation Improvement Program

US 29: Middle Patuxent River to Seneca Drive - Phase 2

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$888	\$0	\$905	\$0	\$0	\$0	\$0	\$1,793
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$888	\$0	\$905	\$0	\$0	\$0	\$0	\$1,793
Total	\$0	\$888	\$0	\$905	\$0	\$0	\$0	\$0	\$1,793

US 29: Seneca Drive to MD 175 - Phase 1A, Old Columbia Road Access Only

TIP ID	66-1601-42	Year of Operation	2015
Agency	SHA - Howard County	Project Type	New or extended roadways
Project Category	Highway Capacity	Functional Class	Other Freeway & Expressways
Conformity Status	Exempt	Physical Data	2 to 2 lanes
CIP or CTP ID(s)	HO3172	Est. Total Cost	\$8,134,000

Description:

Construct access improvements by relocating direct access to Old Columbia Drive from US 29 to the local road system (Phase 1A). Gales Lane will be closed as part of US 29 Phase 1B widening project, TIP #66-1101-41. Three residences along Gales Lane are being relocated. Construction is complete and residences will be relocated by 2018.

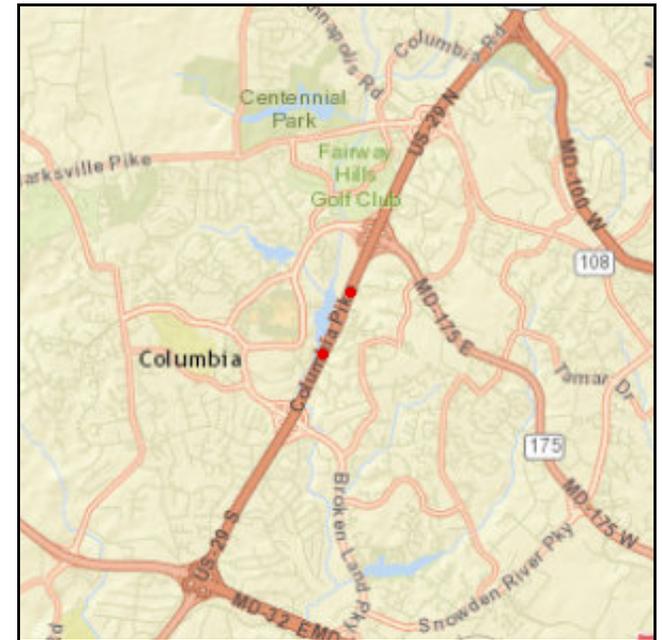
Related projects include: US 29: Seneca Lane to MD 175 - Phase 1B (TIP ID #66-1101-41) as well as US 29: Middle Patuxent River to Seneca Drive - Phase 2 (TIP ID #66-1406-41).

Justification:

This project will improve safety and reduce congestion by upgrading northbound US 29 to match the southbound section, which is currently three lanes in each direction.

Connection to Long-Range Transportation Planning Goals:

- 1.B Improve System Safety -- Apply safety-related management and operations techniques.
- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).





US 29: Seneca Drive to MD 175 - Phase 1A, Old Columbia Road Access Only

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$594	\$50	\$711	\$29	\$0	\$0	\$0	\$0	\$1,384
Subtotal	\$594	\$50	\$711	\$29	\$0	\$0	\$0	\$0	\$1,384
Total	\$594	\$50	\$711	\$29	\$0	\$0	\$0	\$0	\$1,384

MD 32: MD 108 to Linden Church Road

TIP ID	66-1602-41	Year of Operation	2020
Agency	SHA - Howard County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Principal Arterial
Conformity Status	Not Exempt	Physical Data	2 to 4 lanes, 2.25 miles
CIP or CTP ID(s)	HO1411	Est. Total Cost	\$33,174,000

Description:

This project will widen MD 32 in both directions, from two lanes to a four lane divided roadway, from MD 108 to Linden Church Road. Howard County is contributing \$16.5 million in funding for this project.

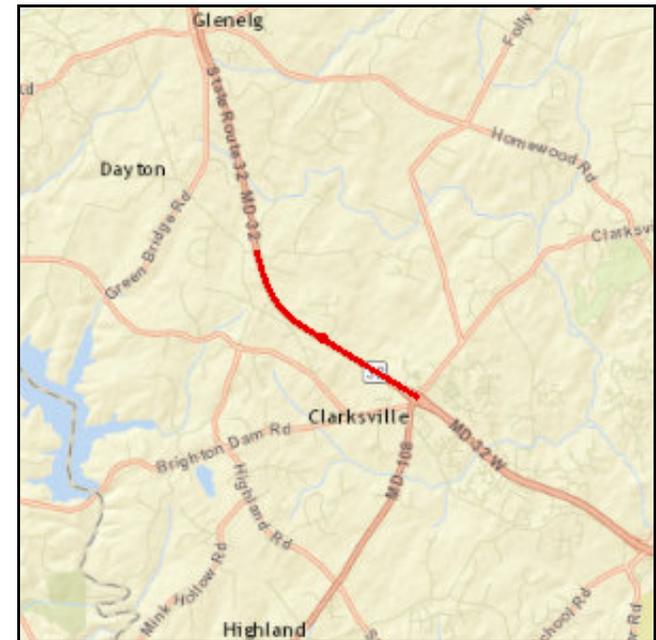
This project is segment 1 of the MD 32: MD 108 to I-70 Corridor project that had TIP Reference #66-1405-41 in previous TIPs.

Justification:

This project will address congestion and safety problems which have been experienced as a result of increasing traffic volumes on the existing two lane roadway.

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.





MD 32: MD 108 to Linden Church Road

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$4,050	\$0	\$11,270	\$0	\$14,666	\$0	\$888	\$30,874
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$800
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$4,850	\$0	\$11,270	\$0	\$14,666	\$0	\$888	\$31,674
Total	\$0	\$4,850	\$0	\$11,270	\$0	\$14,666	\$0	\$888	\$31,674

MD 32: Linden Church Road to I-70, Capacity & Safety Improvements

TIP ID	66-1703-41	Year of Operation	2021
Agency	SHA - Howard County	Project Type	Roadway widening
Project Category	Highway Capacity	Functional Class	Other Principal Arterial
Conformity Status	Not Exempt	Physical Data	2 to 4 Lanes, 6.6 Miles
CIP or CTP ID(s)	HO7561	Est. Total Cost	\$121,930,000

Description:

The project will construct capacity and safety improvements along MD 32, from north of Linden Church Road to I-70.

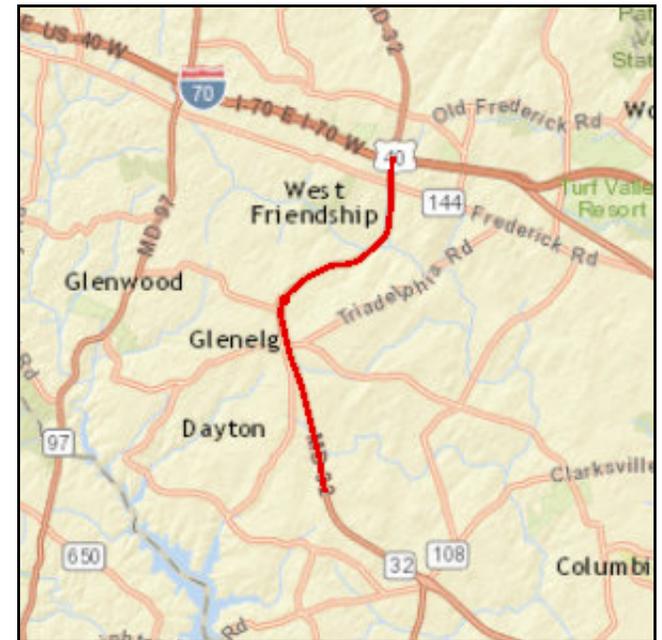
This is a design build project and phase II of the MD 32: MD 108 to I-70 Corridor project improvements. This is the final phase and contains the funding for the original corridor project planning. Phase 1, MD 108 to Linden Church Road, has TIP ID #66-1602-41. The MD 32: MD 108 to I-70 Corridor project had TIP #66-1405-41 in previous TIPs.

Justification:

The project will address congestion and safety problems which have been experienced as a result of increasing traffic volumes on the existing two lane roadway.

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 4. Increase Mobility
- 7.D Promote Prosperity and Economic Opportunity -- Invest within local- and state-designated growth areas.





MD 32: Linden Church Road to I-70, Capacity & Safety Improvements

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$10,042	\$0	\$30,127	\$40,169
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$3,589	\$0	\$11,616	\$0	\$0	\$0	\$0	\$15,205
Subtotal	\$0	\$3,589	\$0	\$11,616	\$0	\$10,042	\$0	\$30,127	\$55,374

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$1,440	\$1,360	\$1,499	\$800	\$640	\$160	\$0	\$0	\$5,899
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$1,440	\$1,360	\$1,499	\$800	\$640	\$160	\$0	\$0	\$5,899
Total	\$1,440	\$4,949	\$1,499	\$12,416	\$640	\$10,202	\$0	\$30,127	\$61,273

MD 32: Triadelphia Road Bridge Replacement

TIP ID	66-1702-13	Year of Operation	2022
Agency	SHA - Howard County	Project Type	Bridge repair/deck replacement
Project Category	Highway Preservation	Functional Class	Other Principal Arterial
Conformity Status	Exempt	Physical Data	2 to 2 Lanes
CIP or CTP ID(s)	HO1561	Est. Total Cost	\$5,941,000

Description:

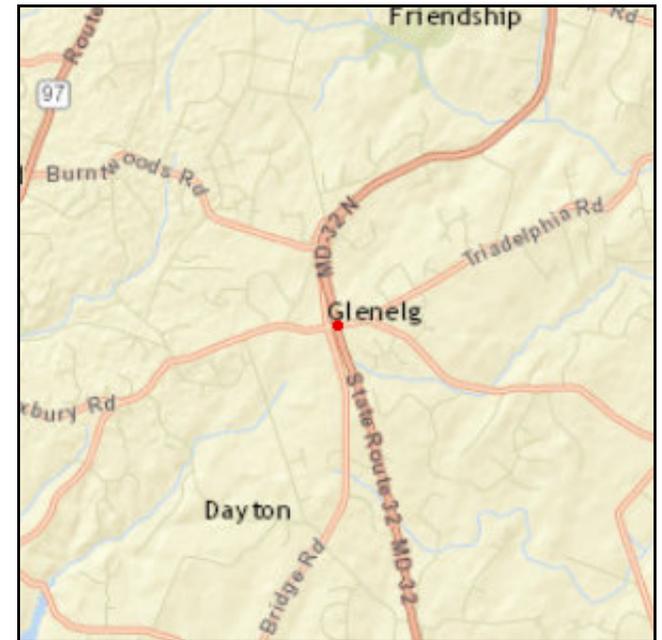
The project will replace bridge no. 013045 along Triadelphia Road over MD 32. The new bridge will accommodate the capacity improvements along MD 32, TIP #66-1703-41. Construction is state funded and will begin after FY 2020.

Justification:

The existing structure, built in 1961, is functionally obsolete.

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).





MD 32: Triadelphia Road Bridge Replacement

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$178	\$0	\$178	\$0	\$178	\$0	\$178	\$712
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$178	\$0	\$178	\$0	\$178	\$0	\$178	\$712
Total	\$0	\$178	\$0	\$178	\$0	\$178	\$0	\$178	\$712

Areawide Transportation Alternatives Projects

TIP ID	60-9903-29	Year of Operation	Ongoing
Agency	SHA - Regional	Project Type	Other
Project Category	Enhancement Program	Functional Class	NA
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	N/A	Est. Total Cost	\$20,800,000

Description:

This is an ongoing program to expand travel choices and enhance the transportation experience by improving the cultural, historic, and environmental aspects of our transportation infrastructure. These projects may include but are not limited to pedestrian/bicycle facilities; rehabilitation of historic transportation facilities, including railroad facilities and canals; conversion and use of abandoned railway corridors; archeological activities related to transportation impacts; and mitigation of water pollution due to highway runoff. This program also includes Safe Routes to School projects.

Justification:

Transportation enhancements are projects which add community and environmental value to the transportation system.

Connection to Long-Range Transportation Planning Goals:

- 1.E Improve System Safety -- Improve safety conditions for pedestrians and bicyclists.
- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 3.A Improve Accessibility -- Increase transportation alternatives for all segments of the population.
- 5.E Conserve and Enhance the Environment -- Preserve and protect natural and cultural resources.





Areawide Transportation Alternatives Projects

(Funding in Thousands)

Transportation Alternatives (Transportation Enhancement, Safe Routes to School)

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$3,200	\$800	\$3,200	\$800	\$3,200	\$800	\$3,200	\$800	\$16,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
PP	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
ROW	\$160	\$40	\$160	\$40	\$160	\$40	\$160	\$40	\$800
Subtotal	\$4,160	\$1,040	\$4,160	\$1,040	\$4,160	\$1,040	\$4,160	\$1,040	\$20,800
Total	\$4,160	\$1,040	\$4,160	\$1,040	\$4,160	\$1,040	\$4,160	\$1,040	\$20,800

Areawide Environmental Projects

TIP ID	60-9506-38	Year of Operation	Ongoing
Agency	SHA - Regional	Project Type	Environmental other
Project Category	Environmental/Safety	Functional Class	NA
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	A-20	Est. Total Cost	\$69,220,000

Description:

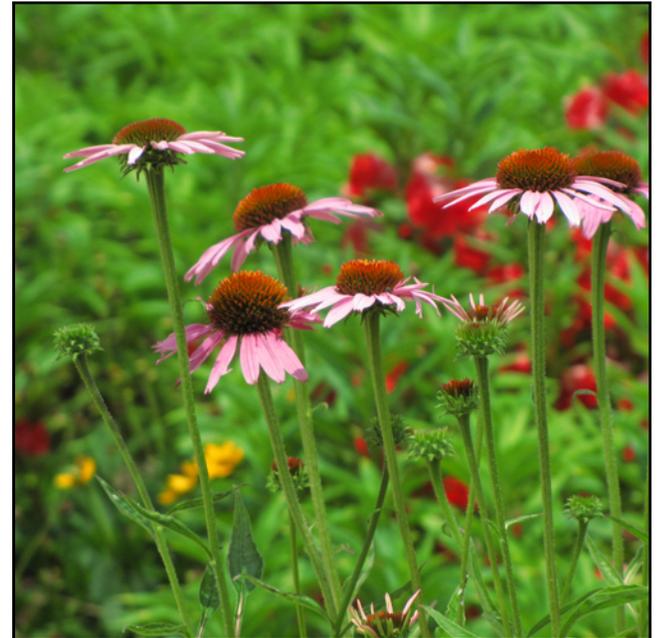
This is an ongoing program to provide environmental and aesthetic improvements on State highways. These are non-capacity improvements, which may include but are not limited to, projects dealing with noise abatement, wetlands, reforestation, landscape planting, scenic beautification, and pedestrian or bicycle facilities. This program also includes National Recreational Trails projects.

Justification:

Will restore important wetlands, enhance the surrounding environment and community, and reduce noise impacts.

Connection to Long-Range Transportation Planning Goals:

- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 5.E Conserve and Enhance the Environment -- Preserve and protect natural and cultural resources.





Areawide Environmental Projects

(Funding in Thousands)

Highway Safety Improvement Program

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$800	\$200	\$800	\$200	\$800	\$200	\$800	\$200	\$4,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$480	\$120	\$240	\$60	\$240	\$60	\$240	\$60	\$1,500
PP	\$40	\$10	\$40	\$10	\$40	\$10	\$40	\$10	\$200
ROW	\$40	\$10	\$40	\$10	\$40	\$10	\$40	\$10	\$200
Subtotal	\$1,360	\$340	\$1,120	\$280	\$1,120	\$280	\$1,120	\$280	\$5,900

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$8,000	\$2,000	\$8,000	\$2,000	\$4,000	\$1,000	\$4,000	\$1,000	\$30,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$216	\$54	\$216	\$54	\$216	\$54	\$216	\$54	\$1,080
PP	\$72	\$18	\$72	\$18	\$72	\$18	\$72	\$18	\$360
ROW	\$72	\$18	\$72	\$18	\$72	\$18	\$72	\$18	\$360
Subtotal	\$8,360	\$2,090	\$8,360	\$2,090	\$4,360	\$1,090	\$4,360	\$1,090	\$31,800



Areawide Environmental Projects

(Funding in Thousands)

National Highway System

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$12,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$320	\$80	\$320	\$80	\$320	\$80	\$320	\$80	\$1,600
PP	\$72	\$18	\$72	\$18	\$72	\$18	\$72	\$18	\$360
ROW	\$72	\$18	\$72	\$18	\$72	\$18	\$72	\$18	\$360
Subtotal	\$2,864	\$716	\$2,864	\$716	\$2,864	\$716	\$2,864	\$716	\$14,320

Recreational Trails Program

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$160	\$40	\$160	\$40	\$160	\$40	\$160	\$40	\$800
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200



Areawide Environmental Projects

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$12,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
PP	\$200	\$50	\$200	\$50	\$200	\$50	\$200	\$50	\$1,000
ROW	\$200	\$50	\$200	\$50	\$200	\$50	\$200	\$50	\$1,000
Subtotal	\$3,200	\$800	\$3,200	\$800	\$3,200	\$800	\$3,200	\$800	\$16,000
Total	\$16,024	\$4,006	\$15,784	\$3,946	\$11,784	\$2,946	\$11,784	\$2,946	\$69,220

Areawide Congestion Management

TIP ID	60-9504-04	Year of Operation	Ongoing
Agency	SHA - Regional	Project Type	Traffic engineering
Project Category	Emission Reduction Strategy	Functional Class	Varies
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	A-21	Est. Total Cost	\$34,000,000

Description:

This is an ongoing program to provide traffic control, management, and monitoring on State highways. These improvements may include but are not limited to the employment of variable message signs, video for traffic management (CCTV), traffic management detectors, signal systemization and remote timing, permanent congestion monitoring systems employed by the CHART program, deployment of local jurisdiction intelligent transportation system (ITS) projects, and the development of park-and-ride facilities.

This project also includes a program that replaces older drayage trucks serving the Port of Baltimore with newer trucks that meet or exceed 2007 EPA emissions certified engine standards.

Justification:

These projects together provide an important air quality component of reducing emissions from motor vehicles in the Baltimore region. Most of these projects will improve safety and traffic flow operations on the existing highway system without major new construction. They will save motorists time by allowing them to avoid traffic congestion. Some of the projects will reduce congestion through the use of ITS technology innovations in communication, advanced traffic management, traveler information, etc.

Connection to Long-Range Transportation Planning Goals:

- 4.A Increase Mobility -- Provide techniques or alternatives as part of a Congestion Management Process (CMP).
- 5.C Conserve and Enhance the Environment -- Provide incentives for zero-emission vehicles.





Areawide Congestion Management

(Funding in Thousands)

Congestion Mitigation and Air Quality

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$800	\$200	\$800	\$200	\$800	\$200	\$800	\$200	\$4,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$320	\$80	\$320	\$80	\$320	\$80	\$320	\$80	\$1,600
PP	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
ROW	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
Subtotal	\$1,280	\$320	\$1,280	\$320	\$1,280	\$320	\$1,280	\$320	\$6,400



Areawide Congestion Management

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$6,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
PP	\$40	\$10	\$40	\$10	\$40	\$10	\$40	\$10	\$200
ROW	\$40	\$10	\$40	\$10	\$40	\$10	\$40	\$10	\$200
Subtotal	\$1,360	\$340	\$1,360	\$340	\$1,360	\$340	\$1,360	\$340	\$6,800

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$3,600	\$900	\$3,600	\$900	\$3,600	\$900	\$3,600	\$900	\$18,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
PP	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
ROW	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
Subtotal	\$4,160	\$1,040	\$4,160	\$1,040	\$4,160	\$1,040	\$4,160	\$1,040	\$20,800
Total	\$6,800	\$1,700	\$6,800	\$1,700	\$6,800	\$1,700	\$6,800	\$1,700	\$34,000

Areawide Bridge Replacement And Rehabilitation

TIP ID	60-9310-13	Year of Operation	Ongoing
Agency	SHA - Regional	Project Type	Bridge repair/deck replacement
Project Category	Highway Preservation	Functional Class	NA
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	A-20	Est. Total Cost	\$151,200,000

Description:

This is an ongoing program to provide major upgrade and maintenance of structures on State highways. These are non-capacity improvements, which may include but are not limited to, structural replacements, deck rehabilitation, superstructure replacements, parapet reconstruction, cleaning and painting, and general maintenance on various state-owned bridges.

Justification:

Will preserve the existing structures, increase safety, and improve highway beautification.



Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).



2017 - 2020 Transportation Improvement Program

Areawide Bridge Replacement And Rehabilitation

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$9,600	\$2,400	\$9,600	\$2,400	\$9,600	\$2,400	\$9,600	\$2,400	\$48,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$1,600	\$400	\$1,600	\$400	\$1,600	\$400	\$1,600	\$400	\$8,000
PP	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
ROW	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
Subtotal	\$12,000	\$3,000	\$12,000	\$3,000	\$12,000	\$3,000	\$12,000	\$3,000	\$60,000

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$12,000	\$3,000	\$12,000	\$3,000	\$12,000	\$3,000	\$12,000	\$3,000	\$60,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$3,840	\$960	\$3,840	\$960	\$3,840	\$960	\$3,840	\$960	\$19,200
PP	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$6,000
ROW	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$6,000
Subtotal	\$18,240	\$4,560	\$18,240	\$4,560	\$18,240	\$4,560	\$18,240	\$4,560	\$91,200
Total	\$30,240	\$7,560	\$30,240	\$7,560	\$30,240	\$7,560	\$30,240	\$7,560	\$151,200

Areawide Resurfacing And Rehabilitation

TIP ID	60-9501-11	Year of Operation	Ongoing
Agency	SHA - Regional	Project Type	Road resurfacing/rehabilitation
Project Category	Highway Preservation	Functional Class	Varies
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	A-20	Est. Total Cost	\$396,000,000

Description:

This is an ongoing program to provide periodic resurfacing and upgrading of auxiliary features on State highways. These are non-capacity improvements, which may include but are not limited to, milling, patching, sealing, and resurfacing of existing deteriorated state roadways. Other improvements such as ADA or guardrail may be included incidental to other resurfacing and rehabilitation improvements.

Justification:

Will improve safety and the flow of traffic. This project listing represents a large funding request for many small resurfacing projects throughout the Baltimore region. Project selection is based upon need and is subject to change.

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).





2017 - 2020 Transportation Improvement Program

Areawide Resurfacing And Rehabilitation

(Funding in Thousands)

Highway Safety Improvement Program

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$12,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
PP	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
ROW	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
Subtotal	\$2,800	\$700	\$2,800	\$700	\$2,800	\$700	\$2,800	\$700	\$14,000

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$40,000	\$10,000	\$40,000	\$10,000	\$32,800	\$8,200	\$32,800	\$8,200	\$182,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$6,000
PP	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
ROW	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
Subtotal	\$42,000	\$10,500	\$42,000	\$10,500	\$34,800	\$8,700	\$34,800	\$8,700	\$192,000



Areawide Resurfacing And Rehabilitation

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$40,000	\$10,000	\$40,000	\$10,000	\$32,000	\$8,000	\$32,000	\$8,000	\$180,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$6,000
PP	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
ROW	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
Subtotal	\$42,000	\$10,500	\$42,000	\$10,500	\$34,000	\$8,500	\$34,000	\$8,500	\$190,000
Total	\$86,800	\$21,700	\$86,800	\$21,700	\$71,600	\$17,900	\$71,600	\$17,900	\$396,000

Areawide Safety And Spot Improvements

TIP ID	60-9508-19	Year of Operation	Ongoing
Agency	SHA - Regional	Project Type	Other
Project Category	Highway Preservation	Functional Class	NA
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	A-20	Est. Total Cost	\$296,160,000

Description:

This is an ongoing program to provide localized improvements to address safety and/or operational issues on State highways. These are highway improvements which may include but are not limited to projects dealing with bypass lanes, acceleration and deceleration lanes, turn lanes, rail crossings, intersection realignment, geometric improvements, safety improvements including bridge, bicycle, and pedestrian safety improvements, pavement markers, ADA improvements, guardrails, and roundabouts. Other improvements such as slope repairs, drainage improvements, and joint sealing may be included incidental to other safety improvements.

Justification:

Will improve safety and the flow of traffic, thereby reducing fatalities, injuries, congestion, and queuing.

Connection to Long-Range Transportation Planning Goals:

- 1.B Improve System Safety -- Apply safety-related management and operations techniques.
- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 3.B Improve Accessibility -- Improve ADA-related conditions for pedestrians / transit riders.





2017 - 2020 Transportation Improvement Program

Areawide Safety And Spot Improvements

(Funding in Thousands)

Congestion Mitigation and Air Quality

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$3,600	\$900	\$3,600	\$900	\$3,600	\$900	\$3,600	\$900	\$18,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$160	\$40	\$160	\$40	\$160	\$40	\$160	\$40	\$800
PP	\$56	\$14	\$56	\$14	\$56	\$14	\$56	\$14	\$280
ROW	\$56	\$14	\$56	\$14	\$56	\$14	\$56	\$14	\$280
Subtotal	\$3,872	\$968	\$3,872	\$968	\$3,872	\$968	\$3,872	\$968	\$19,360



2017 - 2020 Transportation Improvement Program

Areawide Safety And Spot Improvements

(Funding in Thousands)

Highway Safety Improvement Program

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$6,800	\$1,700	\$6,800	\$1,700	\$6,800	\$1,700	\$6,800	\$1,700	\$34,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$800	\$200	\$800	\$200	\$800	\$200	\$800	\$200	\$4,000
PP	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
ROW	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
Subtotal	\$8,080	\$2,020	\$8,080	\$2,020	\$8,080	\$2,020	\$8,080	\$2,020	\$40,400

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$28,000	\$7,000	\$28,000	\$7,000	\$16,000	\$4,000	\$16,000	\$4,000	\$110,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$800	\$200	\$800	\$200	\$800	\$200	\$800	\$200	\$4,000
PP	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
ROW	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
Subtotal	\$29,280	\$7,320	\$29,280	\$7,320	\$17,280	\$4,320	\$17,280	\$4,320	\$116,400



2017 - 2020 Transportation Improvement Program

Areawide Safety And Spot Improvements

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$20,000	\$5,000	\$20,000	\$5,000	\$20,000	\$5,000	\$20,000	\$5,000	\$100,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$12,000
PP	\$800	\$200	\$800	\$200	\$800	\$200	\$800	\$200	\$4,000
ROW	\$800	\$200	\$800	\$200	\$800	\$200	\$800	\$200	\$4,000
Subtotal	\$24,000	\$6,000	\$24,000	\$6,000	\$24,000	\$6,000	\$24,000	\$6,000	\$120,000
Total	\$65,232	\$16,308	\$65,232	\$16,308	\$53,232	\$13,308	\$53,232	\$13,308	\$296,160

Areawide Urban Reconstruction

TIP ID	60-9511-19	Year of Operation	Ongoing
Agency	SHA - Regional	Project Type	Other
Project Category	Highway Preservation	Functional Class	NA
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	A-20	Est. Total Cost	\$25,400,000

Description:

This is an ongoing program to provide roadway rehabilitation and streetscape improvements on State highways in towns and urban areas. These are non-capacity highway improvements which may include but are not limited to projects dealing with drainage, curb and gutter, pavement milling and resurfacing, sidewalks, streetscape, signs, and markings and lighting improvements.

Justification:

Will improve safety and the flow of traffic, thereby reducing delay, queuing and congestion. This will also enhance the surrounding environment and community.

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.





Areawide Urban Reconstruction

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$24	\$6	\$24	\$6	\$24	\$6	\$24	\$6	\$120
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$8	\$2	\$8	\$2	\$8	\$2	\$8	\$2	\$40
PP	\$4	\$1	\$4	\$1	\$4	\$1	\$4	\$1	\$20
ROW	\$4	\$1	\$4	\$1	\$4	\$1	\$4	\$1	\$20
Subtotal	\$40	\$10	\$40	\$10	\$40	\$10	\$40	\$10	\$200



2017 - 2020 Transportation Improvement Program

Areawide Urban Reconstruction

(Funding in Thousands)

Surface Transportation Program (Surface Transportation, Bridge (Off-System))

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$4,000	\$1,000	\$4,000	\$1,000	\$4,000	\$1,000	\$4,000	\$1,000	\$20,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
PP	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
ROW	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
Subtotal	\$5,040	\$1,260	\$5,040	\$1,260	\$5,040	\$1,260	\$5,040	\$1,260	\$25,200
Total	\$5,080	\$1,270	\$5,080	\$1,270	\$5,080	\$1,270	\$5,080	\$1,270	\$25,400

Morgan State University Transportation Research Program

TIP ID	60-0702-99	Year of Operation	Ongoing
Agency	SHA - Regional	Project Type	Miscellaneous
Project Category	Miscellaneous	Functional Class	NA
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)		Est. Total Cost	\$180,000

Description:

Transportation research, education and technology transfer activities involving university faculty, staff and students.

Justification:

The project will support research and solutions to real world transportation issues and meet the state and federal transportation objectives.

Connection to Long-Range Transportation Planning Goals:





Morgan State University Transportation Research Program

(Funding in Thousands)

Other

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$45	\$0	\$45	\$0	\$45	\$0	\$45	\$0	\$180
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$45	\$0	\$45	\$0	\$45	\$0	\$45	\$0	\$180
Total	\$45	\$0	\$45	\$0	\$45	\$0	\$45	\$0	\$180