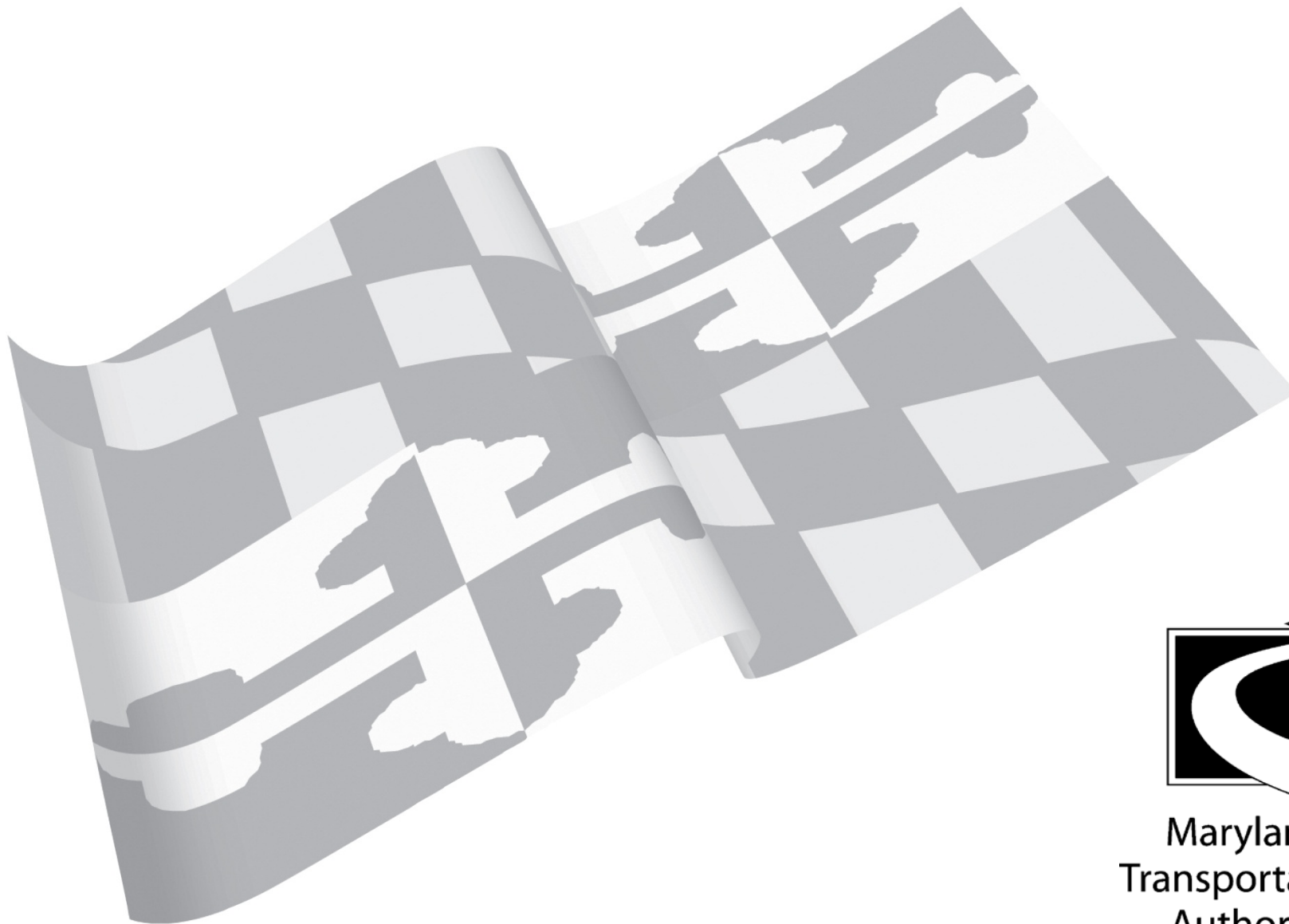




Maryland  
Transportation  
Authority

**MDOT**  
MARYLAND DEPARTMENT  
OF TRANSPORTATION

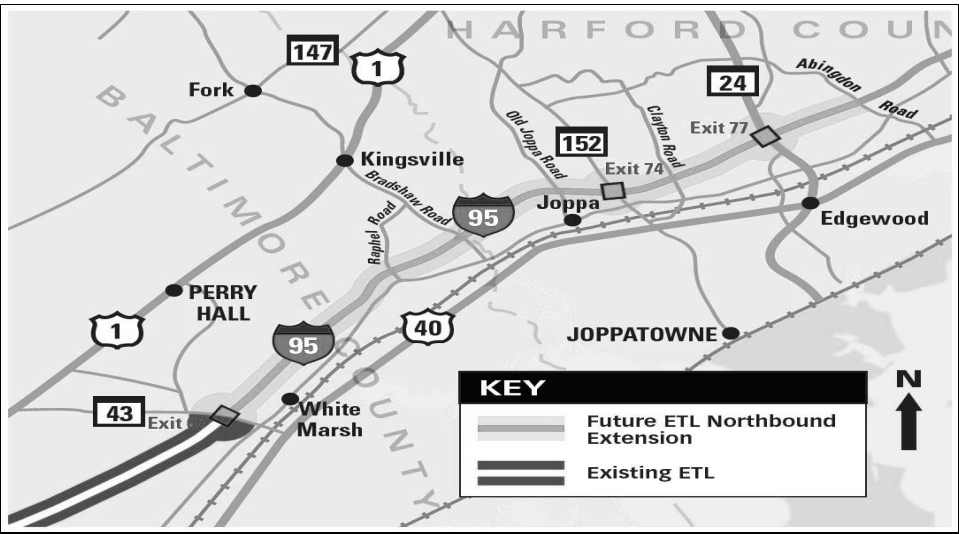
**MARYLAND TRANSPORTATION AUTHORITY**

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**MARYLAND TRANSPORTATION AUTHORITY  
CAPITAL PROGRAM SUMMARY  
(\$ MILLIONS)**

|                                                    | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>SIX-YEAR<br/>TOTAL</u> |
|----------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------------|
| <b><u>Construction Program</u></b>                 |                |                |                |                |                |                |                           |
| Major Projects                                     | 348.0          | 327.4          | 454.8          | 525.1          | 294.2          | 166.4          | 2,115.8                   |
| System Preservation Minor Projects                 | 81.5           | 96.8           | 148.8          | 233.9          | 245.8          | 258.0          | 1,064.6                   |
| <b><u>Development &amp; Evaluation Program</u></b> | <u>-</u>       | <u>-</u>       | <u>-</u>       | <u>-</u>       | <u>-</u>       | <u>-</u>       | <u>-</u>                  |
| <br><b>TOTAL</b>                                   | <br>429.5      | <br>424.1      | <br>603.6      | <br>758.9      | <br>539.9      | <br>424.3      | <br>3,180.4               |

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STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                        |                                                         |
|--------------------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Safety & Security             | <input type="checkbox"/> Environmental Stewardship      |
| <input type="checkbox"/> System Preservation           | <input type="checkbox"/> Community Vitality             |
| <input checked="" type="checkbox"/> Quality of Service | <input checked="" type="checkbox"/> Economic Prosperity |

**EXPLANATION:** Extending the northbound Express Toll Lanes and associated improvements will provide congestion relief and address safety concerns.

**PROJECT:** I-95 John F. Kennedy Memorial Highway - Express Toll Lanes (ETL) Northern Extension

**DESCRIPTION:** The two-lane Express Toll Lane extension to MD 24 includes I-95 safety improvements from Cowenton Road to MD 24; the reconstruction of the MD 24 and MD 152 interchanges; the replacement of four bridges over I-95 (Bradshaw Road, Old Joppa Road, Clayton Road, and Raphael Road); the construction of five noise walls; and environmental mitigation.

**PURPOSE & NEED SUMMARY STATEMENT:** Traffic operations on northbound I-95 beyond the current MD 43 Express Toll Lanes terminus experience routine congestion during peak hours. The improvements will address capacity concerns, improve safety, and allow for better incident management and maintenance activities. The construction of additional noise walls will address the community's requests about quality of life.

**ASSOCIATED IMPROVEMENTS:** None.

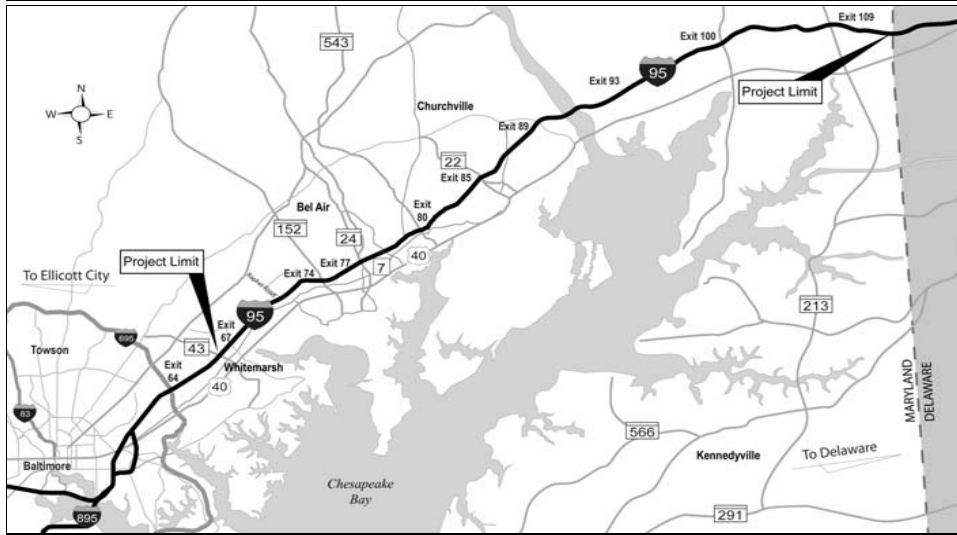
**STATUS:** Engineering and construction are underway.

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.

| POTENTIAL FUNDING SOURCE: |                                       |                        |                         |                        | <input type="checkbox"/> SPECIAL                          | <input type="checkbox"/> FEDERAL | <input type="checkbox"/> GENERAL | <input checked="" type="checkbox"/> OTHER |                      |                           |
|---------------------------|---------------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------------------------|----------------------------------|-------------------------------------------|----------------------|---------------------------|
| PHASE                     | TOTAL<br>ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                                  |                                  |                                           | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|                           |                                       |                        |                         |                        | .....2022.....                                            | .....2023.....                   | .....2024.....                   | .....2025.....                            |                      |                           |
| Planning                  | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |
| Engineering               | 77,652                                | 26,379                 | 24,715                  | 17,294                 | 5,854                                                     | 2,889                            | 521                              | 0                                         | 51,273               | 0                         |
| Right-of-way              | 6,834                                 | 37                     | 3,260                   | 3,537                  | 0                                                         | 0                                | 0                                | 0                                         | 6,797                | 0                         |
| Construction              | 985,818                               | 6,396                  | 41,257                  | 105,982                | 208,718                                                   | 287,455                          | 142,502                          | 98,430                                    | 884,344              | 95,078                    |
| Total                     | 1,070,304                             | 32,812                 | 69,232                  | 126,813                | 214,572                                                   | 290,344                          | 143,023                          | 98,430                                    | 942,414              | 95,078                    |
| Federal-Aid               | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |

## Maryland Transportation Authority -- Line 2

## CONSTRUCTION PROGRAM



**PROJECT:** I-95 John F. Kennedy Memorial Highway - Resurfacing

**DESCRIPTION:** Resurface I-95 northbound and southbound from MD 43 to the Maryland/Delaware state line. Phase I is from MD 43 to MD 24. Phase II is from MD 24 to the Tydings Bridge. Phase III is from the Tydings Bridge to the Maryland/Delaware state line.

**PURPOSE & NEED SUMMARY STATEMENT:** The I-95 roadway north of MD 43 is in need of resurfacing. Phases I and II are complete. Phase III construction is underway.

### STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**EXPLANATION:** The I-95 roadway is in need of resurfacing from MD 43 to the Maryland/Delaware state line (northbound and southbound).

### ASSOCIATED IMPROVEMENTS:

I-95 John F. Kennedy Memorial Highway - Replace Deck of Bridge over Little Northeast Creek - Construction Program (Line 5)  
I-95 John F. Kennedy Memorial Highway - Rehabilitate Decks on Three Bridges on I-95 in Cecil County - Construction Program (Line 6)

**STATUS:** Engineering is complete. Construction is underway.

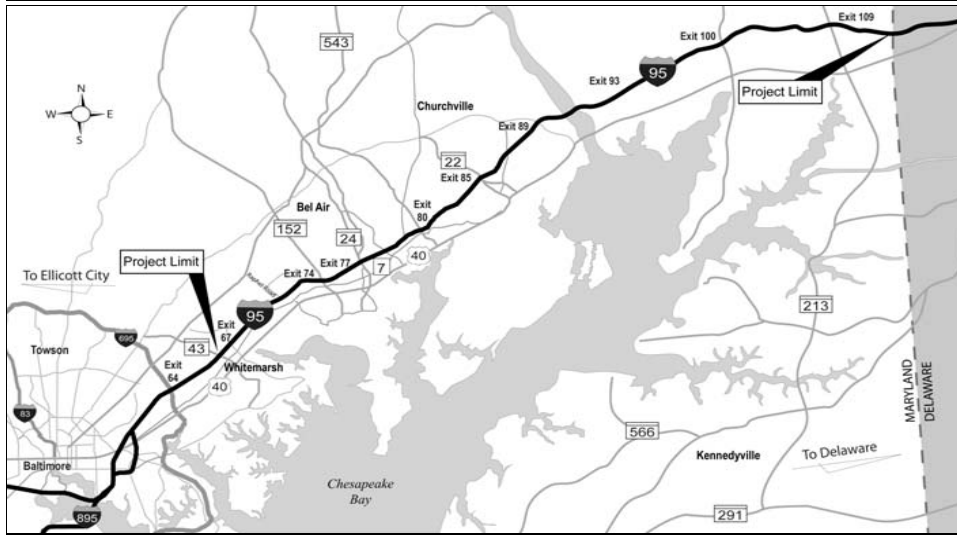
### POTENTIAL FUNDING SOURCE:

- ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                        |                        | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 |                         |                        | .....2022.....                                            | .....2023..... | .....2024..... | .....2025..... |                      |                           |
|              |                              |                        |                         |                        |                                                           |                |                |                |                      |                           |
| Planning     | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Engineering  | 1,362                        | 1,362                  | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Construction | 57,453                       | 37,335                 | 16,799                  | 3,319                  | 0                                                         | 0              | 0              | 0              | 20,118               | 0                         |
| Total        | 58,815                       | 38,697                 | 16,799                  | 3,319                  | 0                                                         | 0              | 0              | 0              | 20,118               | 0                         |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.

2261, 2312, 2393, 2394



**PROJECT:** I-95 John F. Kennedy Memorial Highway - Repair Substructure and Superstructure

**DESCRIPTION:** Repair substructure and superstructure of thirty-one bridges on I-95 in Baltimore County, Harford County, and Cecil County. The work includes structural weld repairs, structural steel repairs, roadway joint repairs, and application of protective coatings.

**PURPOSE & NEED SUMMARY STATEMENT:** The annual facility inspection, as well as findings and issues noted by MDTA Operations, have identified the need to perform a comprehensive substructure and superstructure rehabilitation.

**STATE GOALS :** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** The bridges show signs of wear. Repairs are needed to correct current wear and prevent further wear of the substructure and superstructure.

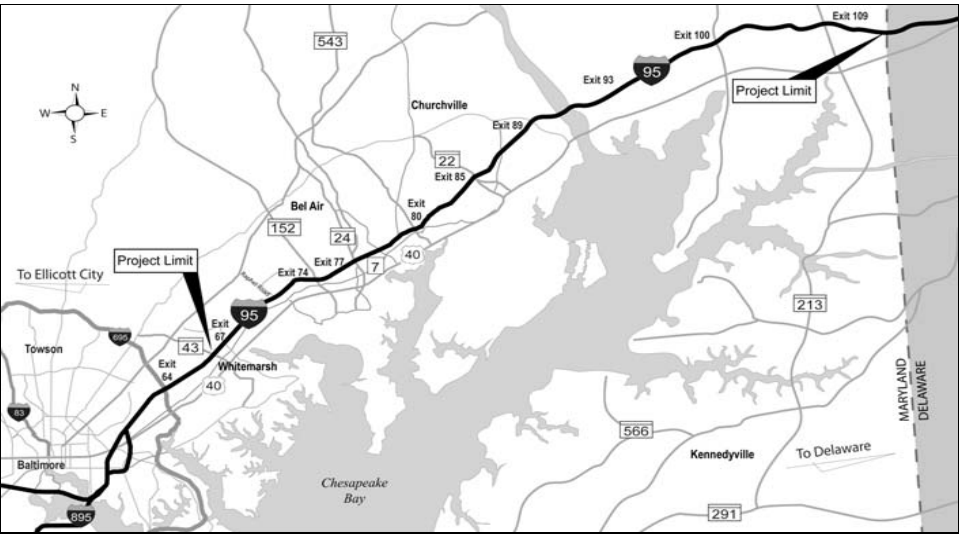
**STATUS:** Open to service.

**POTENTIAL FUNDING SOURCE:**

- ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                        |                        | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 |                         |                        | .....2022.....                                            | .....2023..... | .....2024..... | .....2025..... |                      |                           |
| Planning     | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Engineering  | 2,581                        | 2,493                  | 88                      | 0                      | 0                                                         | 0              | 0              | 0              | 88                   | 0                         |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Construction | 13,510                       | 13,063                 | 447                     | 0                      | 0                                                         | 0              | 0              | 0              | 447                  | 0                         |
| Total        | 16,091                       | 15,556                 | 535                     | 0                      | 0                                                         | 0              | 0              | 0              | 535                  | 0                         |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** Cost increased by \$3.3 million for extended contract time and materials, and for significant additional work including concrete protective coating.



**PROJECT:** I-95 John F. Kennedy Memorial Highway - Remove, Replace, and Upgrade Sign Structures

**DESCRIPTION:** Update and replace sign structures along the John F. Kennedy Memorial Highway.

**PURPOSE & NEED SUMMARY STATEMENT:** Existing sign structures date from the early 1980's and are approaching the end of their useful life.

- STATE GOALS :** Maryland Transportation Plan (MTP) Goals/Selection Criteria:
- ☒ Safety & Security

☒ System Preservation

☒ Quality of Service

☐ Environmental Stewardship

☐ Community Vitality

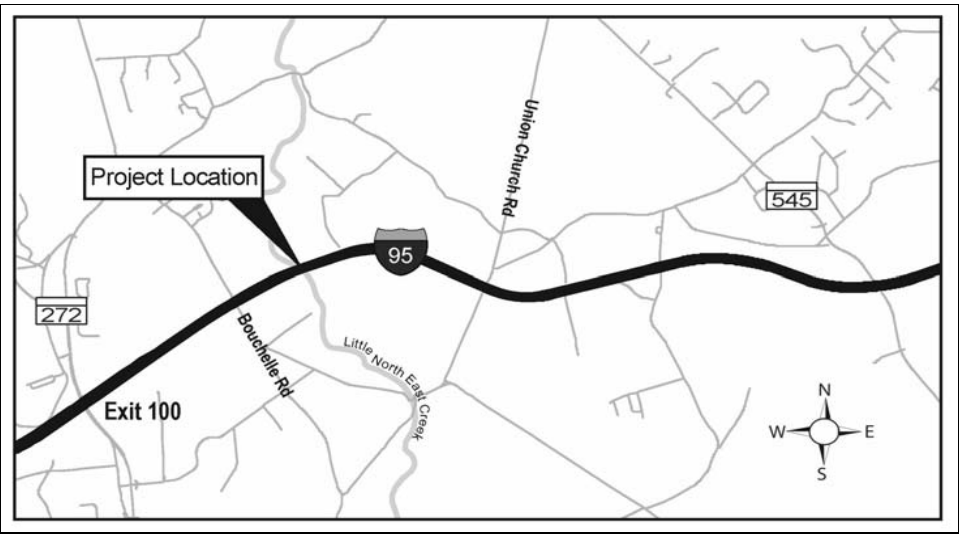
☐ Economic Prosperity

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** Aging sign structures along the John F. Kennedy Memorial Highway will be updated or replaced.

**STATUS:** Engineering is complete. Construction is underway.

| POTENTIAL FUNDING SOURCE: |                                       |                        |                         |                        | <input type="checkbox"/> SPECIAL                          | <input type="checkbox"/> FEDERAL | <input type="checkbox"/> GENERAL | <input checked="" type="checkbox"/> OTHER |                      |                           |  |
|---------------------------|---------------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------------------------|----------------------------------|-------------------------------------------|----------------------|---------------------------|--|
| PHASE                     | TOTAL<br>ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                                  |                                  |                                           | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |  |
|                           |                                       |                        |                         |                        | .....2022.....                                            | .....2023.....                   | .....2024.....                   | .....2025.....                            |                      |                           |  |
| Planning                  | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |  |
| Engineering               | 723                                   | 723                    | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |  |
| Right-of-way              | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |  |
| Construction              | 13,529                                | 3,779                  | 5,984                   | 3,766                  | 0                                                         | 0                                | 0                                | 0                                         | 9,750                | 0                         |  |
| Total                     | 14,252                                | 4,502                  | 5,984                   | 3,766                  | 0                                                         | 0                                | 0                                | 0                                         | 9,750                | 0                         |  |
| Federal-Aid               | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |  |



**PROJECT:** I-95 John F. Kennedy Memorial Highway - Replace Deck of Bridge over Little Northeast Creek

**DESCRIPTION:** Replace the deck of the bridge on I-95 over Little Northeast Creek. The project also includes upgrading existing shoulders to traffic bearing and miscellaneous structural repairs.

**PURPOSE & NEED SUMMARY STATEMENT:** The annual facility inspection and a follow-up study revealed the deck is deteriorated and nearing the end of its useful life.

**STATE GOALS :** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- ☒ Safety & Security
- ☒ System Preservation
- ☐ Quality of Service
- ☐ Environmental Stewardship
- ☐ Community Vitality
- ☐ Economic Prosperity

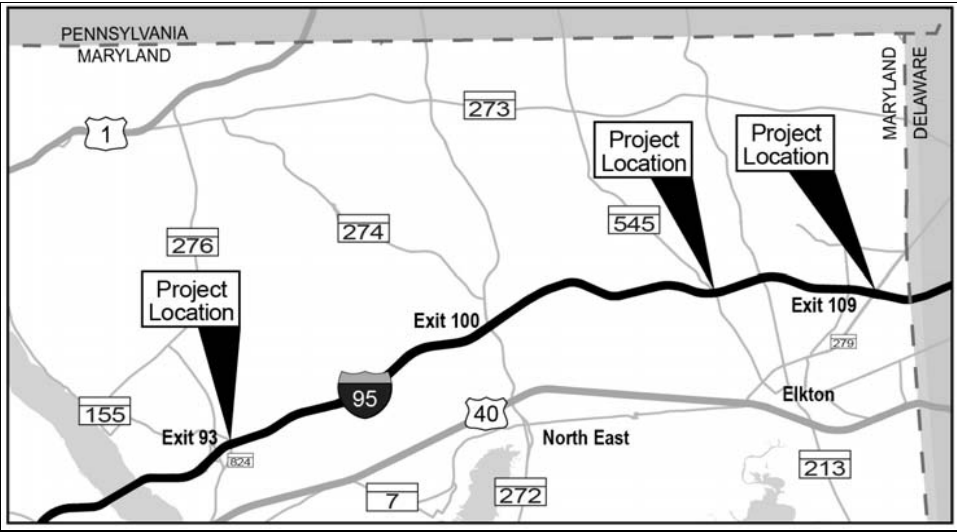
**EXPLANATION:** Replacing the deck and upgrading the existing shoulders will provide a safer, smoother ride.

**ASSOCIATED IMPROVEMENTS:**  
I-95 John F. Kennedy Memorial Highway - Resurfacing - Construction Program (Line 2)  
I-95 John F. Kennedy Memorial Highway - Rehabilitate Decks on Three Bridges on I-95 in Cecil County - Construction Program (Line 6)

**STATUS:** Engineering is complete. Construction is underway.

| POTENTIAL FUNDING SOURCE: <input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER |                        |                  |              |             |                                                        |                |                |                |                |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|--------------|-------------|--------------------------------------------------------|----------------|----------------|----------------|----------------|---------------------|
| PHASE                                                                                                                                                                  | TOTAL                  |                  | CURRENT YEAR | BUDGET YEAR | PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY |                |                |                |                | BALANCE TO COMPLETE |
|                                                                                                                                                                        | ESTIMATED COST (\$000) | EXPEND THRU 2019 |              |             | .....2022.....                                         | .....2023..... | .....2024..... | .....2025..... | SIX YEAR TOTAL |                     |
| Planning                                                                                                                                                               | 0                      | 0                | 0            | 0           | 0                                                      | 0              | 0              | 0              | 0              | 0                   |
| Engineering                                                                                                                                                            | 1,298                  | 1,298            | 0            | 0           | 0                                                      | 0              | 0              | 0              | 0              | 0                   |
| Right-of-way                                                                                                                                                           | 0                      | 0                | 0            | 0           | 0                                                      | 0              | 0              | 0              | 0              | 0                   |
| Construction                                                                                                                                                           | 9,809                  | 7,949            | 1,860        | 0           | 0                                                      | 0              | 0              | 0              | 1,860          | 0                   |
| Total                                                                                                                                                                  | 11,107                 | 9,247            | 1,860        | 0           | 0                                                      | 0              | 0              | 0              | 1,860          | 0                   |
| Federal-Aid                                                                                                                                                            | 0                      | 0                | 0            | 0           | 0                                                      | 0              | 0              | 0              | 0              | 0                   |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.



**PROJECT:** I-95 John F. Kennedy Memorial Highway - Rehabilitate Decks on Three Bridges on I-95 in Cecil County

**DESCRIPTION:** Rehabilitate the decks on three bridges on I-95 in Cecil County. The work includes overlaying the bridge decks, making the decks continuous over the piers, and performing miscellaneous steel and concrete repairs. Bridges included are I-95 over MD 824, I-95 over MD 545 and Little Elk Creek, and I-95 over MD 279.

**PURPOSE & NEED SUMMARY STATEMENT:** The annual facility inspection and follow-up studies revealed the need for deck rehabilitation for three bridges in Cecil County. The deck rehabilitation and miscellaneous structural repairs will extend the useful life of the decks.

**STATE GOALS :** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**EXPLANATION:** Deck rehabilitation and miscellaneous structural repairs will extend the useful life of the decks.

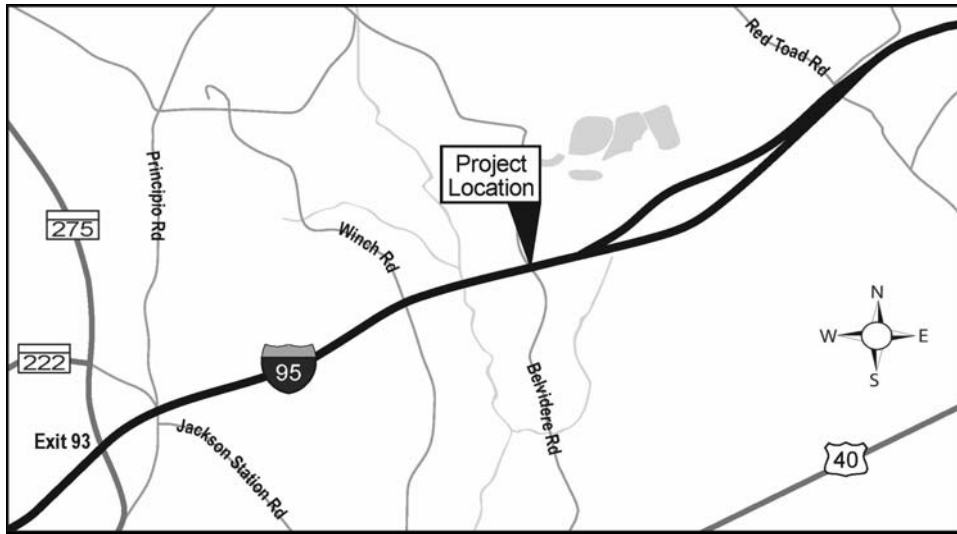
**ASSOCIATED IMPROVEMENTS:**

I-95 John F. Kennedy Memorial Highway - Resurfacing - Construction Program (Line 2)  
I-95 John F. Kennedy Memorial Highway - Replace Deck of Bridge over Little Northeast Creek - Construction Program (Line 5)

**STATUS:** Engineering and construction are underway.

| POTENTIAL FUNDING SOURCE:                                                                                                                                                                |           |        |         |        |                             |                |                |                |                      |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|---------|--------|-----------------------------|----------------|----------------|----------------|----------------------|---------------------------|
| <div><input type="checkbox"/> SPECIAL</div> <div><input type="checkbox"/> FEDERAL</div> <div><input type="checkbox"/> GENERAL</div> <div><input checked="" type="checkbox"/> OTHER</div> |           |        |         |        |                             |                |                |                |                      |                           |
| PHASE                                                                                                                                                                                    | TOTAL     |        |         |        | PROJECTED CASH REQUIREMENTS |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|                                                                                                                                                                                          | ESTIMATED | EXPEND | CURRENT | BUDGET | FOR PLANNING PURPOSES ONLY  |                |                |                |                      |                           |
|                                                                                                                                                                                          | COST      | THRU   | YEAR    | YEAR   |                             |                |                |                |                      |                           |
|                                                                                                                                                                                          | (\$000)   | 2019   | 2020    | 2021   | .....2022.....              | .....2023..... | .....2024..... | .....2025..... |                      |                           |
| Planning                                                                                                                                                                                 | 0         | 0      | 0       | 0      | 0                           | 0              | 0              | 0              | 0                    | 0                         |
| Engineering                                                                                                                                                                              | 499       | 445    | 54      | 0      | 0                           | 0              | 0              | 0              | 54                   | 0                         |
| Right-of-way                                                                                                                                                                             | 0         | 0      | 0       | 0      | 0                           | 0              | 0              | 0              | 0                    | 0                         |
| Construction                                                                                                                                                                             | 15,675    | 2,283  | 11,263  | 2,129  | 0                           | 0              | 0              | 0              | 13,392               | 0                         |
| Total                                                                                                                                                                                    | 16,174    | 2,728  | 11,317  | 2,129  | 0                           | 0              | 0              | 0              | 13,446               | 0                         |
| Federal-Aid                                                                                                                                                                              | 0         | 0      | 0       | 0      | 0                           | 0              | 0              | 0              | 0                    | 0                         |





**PROJECT:** I-95 John F. Kennedy Memorial Highway - I-95/Belvidere Road Interchange

**DESCRIPTION:** Construct an interchange at I-95 John F. Kennedy Memorial Highway (JFK Highway) and Belvidere Road. The first phase of this project is conducting a study to obtain National Environmental Policy Act (NEPA) approval. The study will determine the potential environmental effects associated with the proposed interchange while maintaining the functionality of the regional and local transportation system.

**PURPOSE & NEED SUMMARY STATEMENT:** Increased development in the I-95 JFK Highway and Belvidere Road area necessitates an I-95/Belvidere Road interchange. The \$54 million project cost will be shared with Stewart Properties providing \$6.7 million for design and right of way, Cecil County providing \$1 million for construction, and MDTA providing \$26.3 million for design and construction, with the balance of \$20 million from a BUILD Grant. The \$20 million BUILD Grant was awarded in December 2018. Additionally, Stewart Properties is providing \$1.7 million for planning with a \$300 thousand commitment from MDTA for NEPA review.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                        |                                                         |
|--------------------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Safety & Security             | <input type="checkbox"/> Environmental Stewardship      |
| <input type="checkbox"/> System Preservation           | <input type="checkbox"/> Community Vitality             |
| <input checked="" type="checkbox"/> Quality of Service | <input checked="" type="checkbox"/> Economic Prosperity |

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** This project will support development by providing access to I-95 at Belvidere Road.

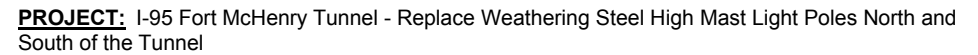
**STATUS:** Planning and engineering are underway. Construction is scheduled to begin in FY 2022.

**POTENTIAL FUNDING SOURCE:**

☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                  |                  | CURRENT YEAR | BUDGET YEAR | PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY |                |                |                | SIX YEAR TOTAL | BALANCE TO COMPLETE |
|--------------|------------------------|------------------|--------------|-------------|--------------------------------------------------------|----------------|----------------|----------------|----------------|---------------------|
|              | ESTIMATED COST (\$000) | EXPEND THRU 2019 |              |             | .....2022.....                                         | .....2023..... | .....2024..... | .....2025..... |                |                     |
| Planning     | 300                    | 0                | 200          | 100         | 0                                                      | 0              | 0              | 0              | 300            | 0                   |
| Engineering  | 2,325                  | 27               | 1,750        | 548         | 0                                                      | 0              | 0              | 0              | 2,298          | 0                   |
| Right-of-way | 0                      | 0                | 0            | 0           | 0                                                      | 0              | 0              | 0              | 0              | 0                   |
| Construction | 44,962                 | 0                | 0            | 0           | 15,000                                                 | 15,000         | 14,962         | 0              | 44,962         | 0                   |
| Total        | 47,587                 | 27               | 1,950        | 648         | 15,000                                                 | 15,000         | 14,962         | 0              | 47,560         | 0                   |
| Federal-Aid  | 0                      | 0                | 0            | 0           | 0                                                      | 0              | 0              | 0              | 0              | 0                   |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** Increased by \$4.0 million for MDTA's increased share of the project and by \$21.0 million for the addition of out-of-pocket expenses that will be reimbursed later by the BUILD Grant and Cecil County.



**DESCRIPTION:** Replaced all weathering steel high mast light poles with galvanized steel poles on I-95 in Baltimore City, north and south of the Fort McHenry Tunnel. Also, replaced foundations and associated conduits/controls.

**PURPOSE & NEED SUMMARY STATEMENT:** The weathering steel high mast light poles were part of the original construction in 1985 and were nearing the end of their useful life. They were replaced with galvanized steel poles that have a longer life expectancy.

|                                     |                     |                          |                           |
|-------------------------------------|---------------------|--------------------------|---------------------------|
| <input checked="" type="checkbox"/> | Safety & Security   | <input type="checkbox"/> | Environmental Stewardship |
| <input checked="" type="checkbox"/> | System Preservation | <input type="checkbox"/> | Community Vitality        |
| <input type="checkbox"/>            | Quality of Service  | <input type="checkbox"/> | Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:** None.

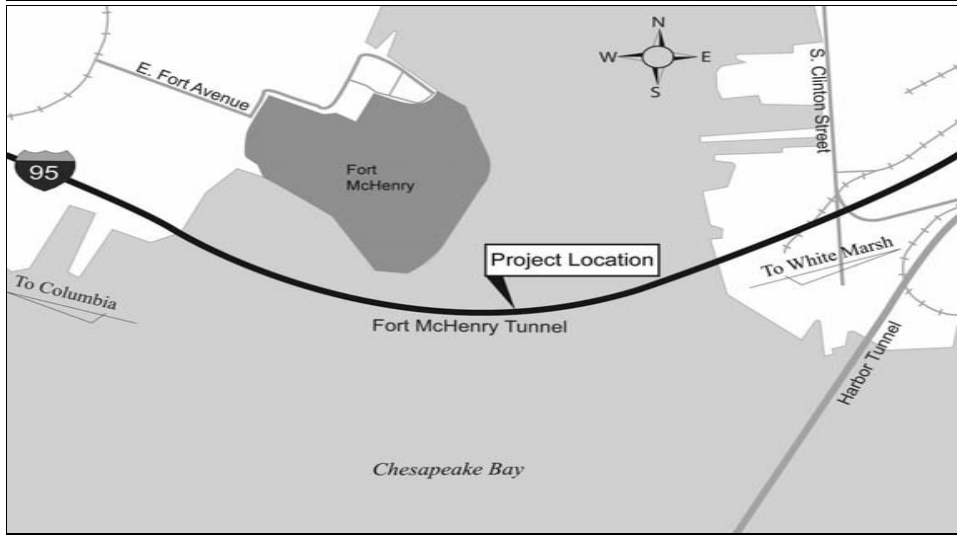
**EXPLANATION:** The weathering steel high mast light poles were part of the original construction in 1985 and were nearing the end of their useful life. They were replaced with galvanized steel poles that have a longer life expectancy.

**STATUS:** Open to service.

☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.

[illegible]



**PROJECT:** I-95 Fort McHenry Tunnel - Replace Tunnel Lighting Systems

**DESCRIPTION:** Replace the Fort McHenry Tunnel lighting systems.

**PURPOSE & NEED SUMMARY STATEMENT:** The lights throughout this tunnel are an integral part of the tunnel systems. The lighting systems, which are approaching the end of their useful life, need to be replaced.

**STATE GOALS :** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input checked="" type="checkbox"/> Safety & Security   | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** Old and inadequate lighting will be replaced throughout the Fort McHenry Tunnel, enhancing safety for both workers and drivers.

**STATUS:** Engineering is complete. Construction is underway.

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.

POTENTIAL FUNDING SOURCE: ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                        |                        | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 |                         |                        | .....2022.....                                            | .....2023..... | .....2024..... | .....2025..... |                      |                           |
| Planning     | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Engineering  | 2,078                        | 2,078                  | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Construction | 19,895                       | 18,487                 | 1,408                   | 0                      | 0                                                         | 0              | 0              | 0              | 1,408                | 0                         |
| Total        | 21,973                       | 20,565                 | 1,408                   | 0                      | 0                                                         | 0              | 0              | 0              | 1,408                | 0                         |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |



**PROJECT:** I-95 Fort McHenry Tunnel - Rehabilitate Vent Fans

**DESCRIPTION:** Rehabilitate forty-eight ventilation fans in the Fort McHenry Tunnel East and West Ventilation Buildings.

**PURPOSE & NEED SUMMARY STATEMENT:** The ventilation system is an integral part of the Fort McHenry Tunnel. Rehabilitating the fans and their components will improve the operational reliability of the existing fans and extend the service life of the ventilation system in the tunnel.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input checked="" type="checkbox"/> Safety & Security   | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:** None.

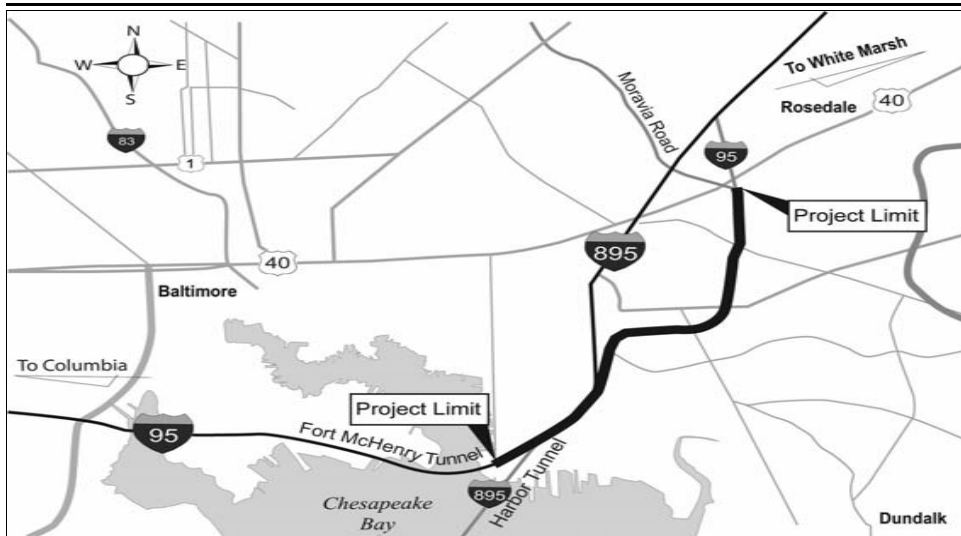
**EXPLANATION:** Rehabilitating the fans will extend the useful life of the existing ventilation system.

**STATUS:** Engineering is underway. Construction will begin in FY 2020.

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.

**POTENTIAL FUNDING SOURCE:** ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                        |                        | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 |                         |                        | .....2022.....                                            | .....2023..... | .....2024..... | .....2025..... |                      |                           |
| Planning     | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Engineering  | 3,149                        | 2,149                  | 229                     | 250                    | 271                                                       | 150            | 100            | 0              | 1,000                | 0                         |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Construction | 44,800                       | 0                      | 1,330                   | 2,585                  | 15,480                                                    | 17,975         | 7,430          | 0              | 44,800               | 0                         |
| Total        | 47,949                       | 2,149                  | 1,559                   | 2,835                  | 15,751                                                    | 18,125         | 7,530          | 0              | 45,800               | 0                         |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |



|                                     |                     |                          |                           |
|-------------------------------------|---------------------|--------------------------|---------------------------|
| <input checked="" type="checkbox"/> | Safety & Security   | <input type="checkbox"/> | Environmental Stewardship |
| <input type="checkbox"/>            | System Preservation | <input type="checkbox"/> | Community Vitality        |
| <input checked="" type="checkbox"/> | Quality of Service  | <input type="checkbox"/> | Economic Prosperity       |

**PROJECT:** I-95 Fort McHenry Tunnel - Moravia Road to Tunnel Improvements

**DESCRIPTION:** This project reconfigured I-95 to provide four continuous mainline lanes in each direction from north of the Fort McHenry Toll Plaza to the southern end of the I-95 Express Toll Lanes (ETL). The project involved restriping I-95 to provide one additional lane of traffic including reconstruction of at-grade shoulders; replacement of at-grade median concrete traffic barrier; and reconstruction of portions of existing bridge decks and all concrete bridge parapets.

**PURPOSE & NEED SUMMARY STATEMENT:** This project provides lane continuity and additional capacity along I-95 between the Fort McHenry Tunnel and the I-95 ETL. This is needed to address existing congestion and to accommodate diverted traffic from I-895 that results from MDTA's I-895 Bridge Replacement Project. It improves safety by providing higher roadside concrete traffic barriers and bridge parapets.

**ASSOCIATED IMPROVEMENTS:**

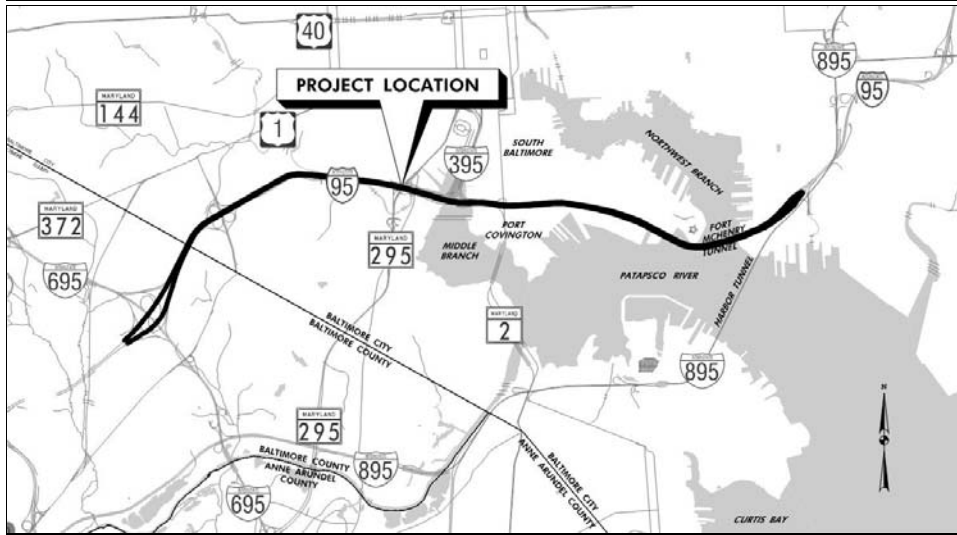
I-895 Baltimore Harbor Tunnel Thruway - I-895 Bridge Replacement - Construction Program (Line 19)

**STATUS:** Open to service. Remaining paving, signage, and miscellaneous structural repairs are underway.

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** Cost increased by \$2.5 million due to increased construction management inspections and extended project duration.

[illegible]

1300, 2414



**PROJECT:** I-95 Fort McHenry Tunnel - Port Covington I-95 Access

**DESCRIPTION:** The first phase of this project is a comprehensive evaluation of potential improvements to I-95 ramps required to support major planned development on the Port Covington Peninsula located in Baltimore City. Improvements being evaluated include potential changes to the I-95 ramps between Hanover Street and Key Highway.

**PURPOSE & NEED SUMMARY STATEMENT:** A National Environmental Policy Act (NEPA) study is required to determine the potential environmental effects associated with proposed improvements to accommodate anticipated growth while maintaining the functionality of the regional and local transportation system.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                        |                                                         |
|--------------------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Safety & Security             | <input type="checkbox"/> Environmental Stewardship      |
| <input type="checkbox"/> System Preservation           | <input checked="" type="checkbox"/> Community Vitality  |
| <input checked="" type="checkbox"/> Quality of Service | <input checked="" type="checkbox"/> Economic Prosperity |

**ASSOCIATED IMPROVEMENTS:** None.

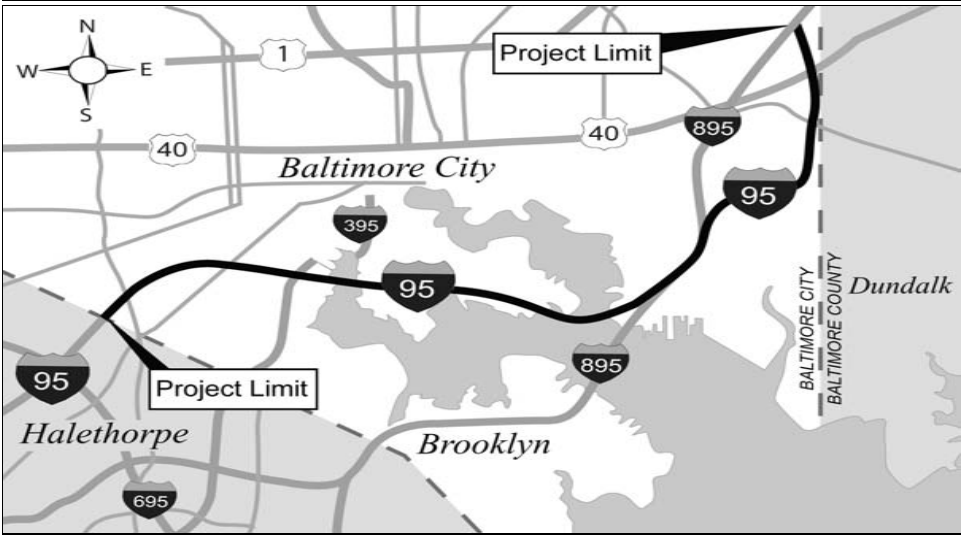
**EXPLANATION:** The study will identify preferred infrastructure improvements to support the full development potential of a large area of underutilized land in Baltimore City while maintaining the functionality of the regional transportation system.

**STATUS:** Planning is underway. Construction schedule to be determined. Planning funding shown is for MDTA's oversight of the planning phase which is being funded by a private developer. Construction funding shown is MDTA's match for future INFRA Grant.

**POTENTIAL FUNDING SOURCE:** ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                        |                        |                         |                        | PROJECTED CASH REQUIREMENTS |                |                |                |        | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------|----------------|----------------|----------------|--------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | FOR PLANNING PURPOSES ONLY  |                |                |                |        |                      |                           |
|              |                              |                        |                         |                        | .....2022.....              | .....2023..... | .....2024..... | .....2025..... |        |                      |                           |
|              |                              |                        |                         |                        |                             |                |                |                |        |                      |                           |
| Planning     | 400                          | 385                    | 15                      | 0                      | 0                           | 0              | 0              | 0              | 15     | 0                    |                           |
| Engineering  | 0                            | 0                      | 0                       | 0                      | 0                           | 0              | 0              | 0              | 0      | 0                    |                           |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                           | 0              | 0              | 0              | 0      | 0                    |                           |
| Construction | 33,000                       | 0                      | 0                       | 0                      | 0                           | 0              | 5,500          | 11,000         | 16,500 | 16,500               |                           |
| Total        | 33,400                       | 385                    | 15                      | 0                      | 0                           | 0              | 5,500          | 11,000         | 16,515 | 16,500               |                           |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                           | 0              | 0              | 0              | 0      | 0                    |                           |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.



**PROJECT:** I-95/I-395 Fort McHenry Tunnel - Deck Sealing and Miscellaneous Rehabilitation

**DESCRIPTION:** Perform a comprehensive sealing program to seal sixty-one bridges. This project includes twenty bridges on I-95 north of the Fort McHenry Tunnel, twenty-five bridges on I-95 south of the Fort McHenry Tunnel, and sixteen bridges on I-395.

**PURPOSE & NEED SUMMARY STATEMENT:** The decks exhibit varying degrees of deterioration. This improvement will correct current wear and extend the useful life of the decks.

**STATE GOALS :** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

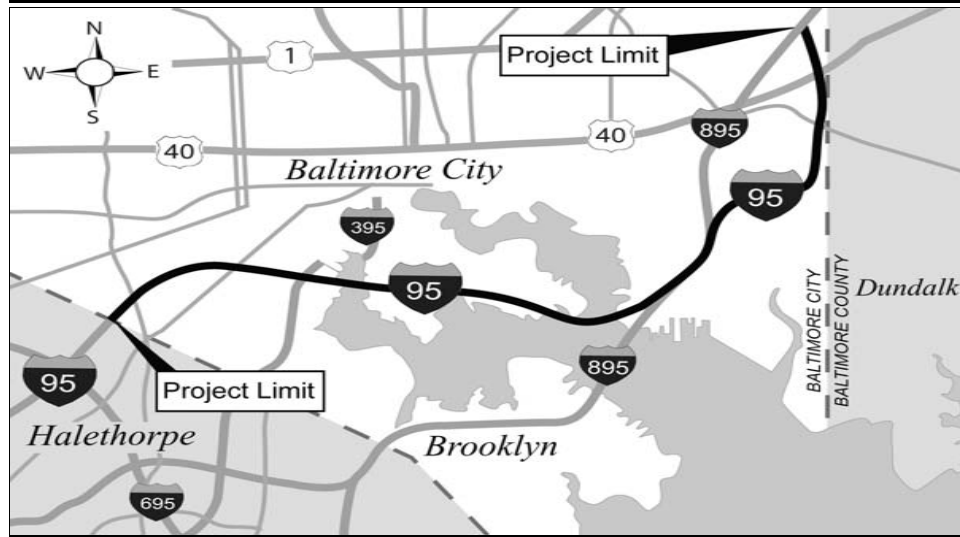
**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** Repairs are needed to correct current wear and to prevent further wear of the decks.

**STATUS:** Engineering is complete. Construction is underway.

| POTENTIAL FUNDING SOURCE: |           |        |         |        | <input type="checkbox"/> SPECIAL | <input type="checkbox"/> FEDERAL | <input type="checkbox"/> GENERAL | <input checked="" type="checkbox"/> OTHER |       |                      |                           |
|---------------------------|-----------|--------|---------|--------|----------------------------------|----------------------------------|----------------------------------|-------------------------------------------|-------|----------------------|---------------------------|
| PHASE                     | TOTAL     |        |         |        | PROJECTED CASH REQUIREMENTS      |                                  |                                  |                                           |       | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|                           | ESTIMATED | EXPEND | CURRENT | BUDGET | FOR PLANNING PURPOSES ONLY       |                                  |                                  |                                           |       |                      |                           |
|                           | COST      | THRU   | YEAR    | YEAR   |                                  |                                  |                                  |                                           |       |                      |                           |
|                           | (\$000)   | 2019   | 2020    | 2021   | .....2022.....                   | .....2023.....                   | .....2024.....                   | .....2025.....                            |       |                      |                           |
| Planning                  | 0         | 0      | 0       | 0      | 0                                | 0                                | 0                                | 0                                         | 0     | 0                    |                           |
| Engineering               | 750       | 366    | 384     | 0      | 0                                | 0                                | 0                                | 0                                         | 384   | 0                    |                           |
| Right-of-way              | 0         | 0      | 0       | 0      | 0                                | 0                                | 0                                | 0                                         | 0     | 0                    |                           |
| Construction              | 5,993     | 4,681  | 1,312   | 0      | 0                                | 0                                | 0                                | 0                                         | 1,312 | 0                    |                           |
| Total                     | 6,743     | 5,047  | 1,696   | 0      | 0                                | 0                                | 0                                | 0                                         | 1,696 | 0                    |                           |
| Federal-Aid               | 0         | 0      | 0       | 0      | 0                                | 0                                | 0                                | 0                                         | 0     | 0                    |                           |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.



**PROJECT:** I-95 Fort McHenry Tunnel - Rehabilitate Substructure and Superstructure of Various Bridges on I-95 in Baltimore City

**DESCRIPTION:** Repair substructure and superstructure of thirty-seven bridges on I-95 in Baltimore City. The work includes structural weld repairs, structural steel repairs, roadway joint repairs, concrete repairs, and application of protective coatings.

**PURPOSE & NEED SUMMARY STATEMENT:** The annual facility inspection, as well as findings and issues noted by MDTA Operations, have identified the need to perform a comprehensive substructure and superstructure rehabilitation.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** The bridges show signs of wear. Rehabilitation is needed to correct current wear and prevent further wear of the substructure and superstructure.

**STATUS:** Engineering is complete. Construction is underway.

**POTENTIAL FUNDING SOURCE:**

- ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.

| PHASE        | TOTAL                        |                        | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 |                         |                        | .....2022.....                                            | .....2023..... | .....2024..... | .....2025..... |                      |                           |
| Planning     | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Engineering  | 2,108                        | 2,108                  | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Construction | 6,751                        | 3,865                  | 1,465                   | 1,421                  | 0                                                         | 0              | 0              | 0              | 2,886                | 0                         |
| Total        | 8,859                        | 5,973                  | 1,465                   | 1,421                  | 0                                                         | 0              | 0              | 0              | 2,886                | 0                         |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |





**DESCRIPTION:** Perform substructure and superstructure rehabilitation at twenty bridges on MD 695 in Baltimore County, Anne Arundel County, and Baltimore City. The work includes structural weld repairs; structural steel repairs; roadway joint repairs; concrete spall/delaminated areas repair; concrete crack repair; applying concrete protective coatings; slope protection repairs; substructure (jacketing of piers) repairs; and other miscellaneous items of work.

**PURPOSE & NEED SUMMARY STATEMENT:** The annual facility inspection as well as findings and issues noted by MDTA Operations have necessitated a project to perform a comprehensive substructure and superstructure rehabilitation at various bridges on MD 695 in Baltimore County, Anne Arundel County, and Baltimore City.

|                                     |                     |                          |                           |
|-------------------------------------|---------------------|--------------------------|---------------------------|
| <input type="checkbox"/>            | Safety & Security   | <input type="checkbox"/> | Environmental Stewardship |
| <input checked="" type="checkbox"/> | System Preservation | <input type="checkbox"/> | Community Vitality        |
| <input type="checkbox"/>            | Quality of Service  | <input type="checkbox"/> | Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:** None.

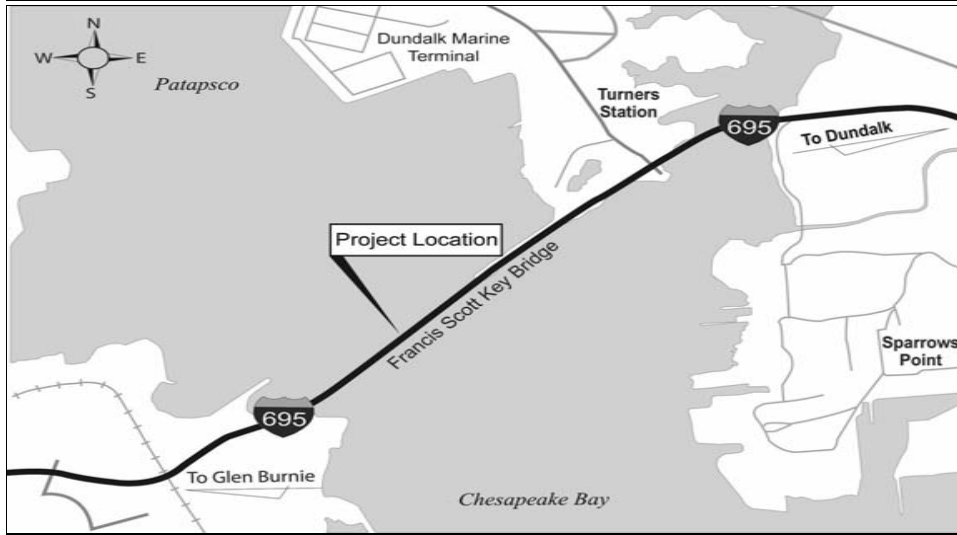
**EXPLANATION:** Comprehensive substructure and superstructure rehabilitation at the twenty bridges identified in the annual inspection and by MDTA Operations will correct current wear and prevent further wear.

**STATUS:** Engineering is complete. Construction is underway.

☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.

[illegible]



**PROJECT:** MD 695 Francis Scott Key Bridge - Clean and Paint Structural Steel of Approach Spans and Miscellaneous Repairs

**DESCRIPTION:** Clean and paint Francis Scott Key Bridge approach spans to restore and protect the integrity of steel bridge components.

**PURPOSE & NEED SUMMARY STATEMENT:** The annual facility inspection, as well as findings and issues noted by MDTA Operations, have identified the need to perform cleaning and painting of the structural steel approach spans of the bridge.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** Paint throughout the spans is deteriorating. This improvement will address existing wear and extend the useful life of the steel components of the bridge.

**STATUS:** Engineering and construction are underway.

**POTENTIAL FUNDING SOURCE:**

- ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.

| POTENTIAL FUNDING SOURCE: |                 |              |              |              | <input type="checkbox"/> SPECIAL | <input type="checkbox"/> FEDERAL | <input type="checkbox"/> GENERAL | <input checked="" type="checkbox"/> OTHER |   |                      |                           |
|---------------------------|-----------------|--------------|--------------|--------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------------------|---|----------------------|---------------------------|
| PHASE                     | TOTAL           |              |              |              | PROJECTED CASH REQUIREMENTS      |                                  |                                  |                                           |   | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|                           | ESTIMATED       | EXPEND       | CURRENT      | BUDGET       | FOR PLANNING PURPOSES ONLY       |                                  |                                  |                                           |   |                      |                           |
|                           | COST<br>(\$000) | THRU<br>2019 | YEAR<br>2020 | YEAR<br>2021 | .....2022.....                   | .....2023.....                   | .....2024.....                   | .....2025.....                            |   |                      |                           |
| Planning                  | 0               | 0            | 0            | 0            | 0                                | 0                                | 0                                | 0                                         | 0 | 0                    | 0                         |
| Engineering               | 100             | 90           | 10           | 0            | 0                                | 0                                | 0                                | 0                                         | 0 | 10                   | 0                         |
| Right-of-way              | 0               | 0            | 0            | 0            | 0                                | 0                                | 0                                | 0                                         | 0 | 0                    | 0                         |
| Construction              | 7,476           | 5,502        | 1,974        | 0            | 0                                | 0                                | 0                                | 0                                         | 0 | 1,974                | 0                         |
| Total                     | 7,576           | 5,592        | 1,984        | 0            | 0                                | 0                                | 0                                | 0                                         | 0 | 1,984                | 0                         |
| Federal-Aid               | 0               | 0            | 0            | 0            | 0                                | 0                                | 0                                | 0                                         | 0 | 0                    | 0                         |



**PROJECT:** MD 695 Francis Scott Key Bridge - Resurfacing

**DESCRIPTION:** Resurface the existing asphalt pavement on MD 695 Baltimore Beltway from the interchange with MD 10 to the interchange with MD 151.

**PURPOSE & NEED SUMMARY STATEMENT:** The annual facility inspection and follow-up studies revealed the need for resurfacing the existing asphalt pavement on MD 695 Baltimore Beltway.

**STATE GOALS :** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- ☐ Safety & Security
- ☒ System Preservation
- ☐ Quality of Service
- ☐ Environmental Stewardship
- ☐ Community Vitality
- ☐ Economic Prosperity

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** Resurfacing will extend the useful life of the highway.

**STATUS:** Engineering and construction are underway.

| POTENTIAL FUNDING SOURCE: |                                       |                        |                         |                        | <input type="checkbox"/> SPECIAL                          | <input type="checkbox"/> FEDERAL | <input type="checkbox"/> GENERAL | <input checked="" type="checkbox"/> OTHER |                      |                           |  |
|---------------------------|---------------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------------------------|----------------------------------|-------------------------------------------|----------------------|---------------------------|--|
| PHASE                     | TOTAL<br>ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                                  |                                  |                                           | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |  |
|                           |                                       |                        |                         |                        | .....2022.....                                            | .....2023.....                   | .....2024.....                   | .....2025.....                            |                      |                           |  |
| Planning                  | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |  |
| Engineering               | 500                                   | 456                    | 44                      | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 44                   | 0                         |  |
| Right-of-way              | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |  |
| Construction              | 9,637                                 | 82                     | 9,555                   | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 9,555                | 0                         |  |
| Total                     | 10,137                                | 538                    | 9,599                   | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 9,599                | 0                         |  |
| Federal-Aid               | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |  |



**DESCRIPTION:** Remove existing equipment and install equipment to convert to cashless tolling, demolish existing toll plaza, reconstruct MD 695 and service roads north of the Francis Scott Key Bridge, construct truck inspection areas, and make environmental management improvements.

**PURPOSE & NEED SUMMARY STATEMENT:** Cashless tolling will provide toll collection at highway speeds through the electronic methods of E-ZPass and video tolling. The advantages of converting to cashless tolling include reduced travel time; increased safety/reduced crashes; alignment with national practice; improved customer convenience; reduced emissions; and reduction in toll collection and maintenance costs. Cashless tolling has been used successfully at the the MDTA's MD 200 Intercounty Connector (ICC) and the I-95 Express Toll Lanes (ETL).

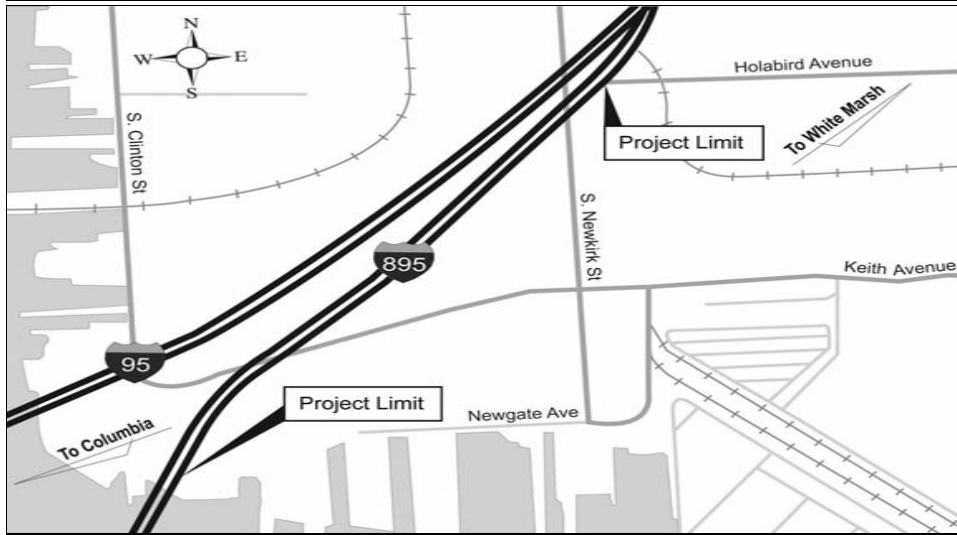
|                                     |                     |                          |                           |
|-------------------------------------|---------------------|--------------------------|---------------------------|
| <input type="checkbox"/>            | Safety & Security   | <input type="checkbox"/> | Environmental Stewardship |
| <input type="checkbox"/>            | System Preservation | <input type="checkbox"/> | Community Vitality        |
| <input checked="" type="checkbox"/> | Quality of Service  | <input type="checkbox"/> | Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:** None.

**STATUS:** Engineering is complete. Construction is underway.

[illegible]

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** Added to the Construction Program.



**PROJECT:** I-895 Baltimore Harbor Tunnel Thruway - I-895 Bridge Replacement

**DESCRIPTION:** Replace the elevated portion of the I-895 roadway from the north portal entrance to Holabird Avenue. The rehabilitation of the tunnel deck, liner, and standpipe and sump pump systems have been added to this project. Note: This project was previously named "Replace Canton Viaduct."

**PURPOSE & NEED SUMMARY STATEMENT:** The bridge deck on this structure has not been renovated since 1985. Testing has indicated that portions of the bridge are nearing the end of their life cycle. The bridge deck, substructure, and superstructure are experiencing various degrees of wear. Additional work within the tunnel has been added to the project.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**EXPLANATION:** The elevated portion of the roadway from the north portal entrance to Holabird Avenue will be replaced because it is nearing the end of its life cycle. Rehabilitation of the tunnel deck, liner, standpipes and sump pumps will extend the useful life of those components.

**ASSOCIATED IMPROVEMENTS:**

- I-95 Fort McHenry Tunnel - Moravia Road to Tunnel Improvements - Construction Program (Line 11)  
 I-895 Baltimore Harbor Tunnel Thruway - Replace Deck and Superstructure of Bridge over Patapsco Flats - Construction Program (Line 21)  
 I-895 Baltimore Harbor Tunnel Thruway - Replace Concrete Median Barrier - Constr. Prog. (Line 22)

**STATUS:** Engineering is complete. Right-of-way acquisition and construction are underway.

**POTENTIAL FUNDING SOURCE:**

- ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                        |                        | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 |                         |                        | .....2022.....                                            | .....2023..... | .....2024..... | .....2025..... |                      |                           |
|              |                              |                        |                         |                        |                                                           |                |                |                |                      |                           |
| Planning     | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Engineering  | 24,146                       | 24,146                 | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Right-of-way | 9,002                        | 2,048                  | 6,954                   | 0                      | 0                                                         | 0              | 0              | 0              | 6,954                | 0                         |
| Construction | 218,317                      | 96,410                 | 57,420                  | 47,384                 | 17,103                                                    | 0              | 0              | 0              | 121,907              | 0                         |
| Total        | 251,465                      | 122,604                | 64,374                  | 47,384                 | 17,103                                                    | 0              | 0              | 0              | 128,861              | 0                         |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.



**PROJECT:** I-895 Baltimore Harbor Tunnel Thruway - Replace Vent Fans

**DESCRIPTION:** Replace thirty-two ventilation fans located in the Canton and Fairfield Ventilation Buildings.

**PURPOSE & NEED SUMMARY STATEMENT:** The ventilation system is an integral part of the Baltimore Harbor Tunnel. The fans are nearing the end of their useful life and need to be replaced.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input checked="" type="checkbox"/> Safety & Security   | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** Replacing the vent fans will extend the life of the existing ventilation system.

**STATUS:** Engineering is complete. Construction is underway.

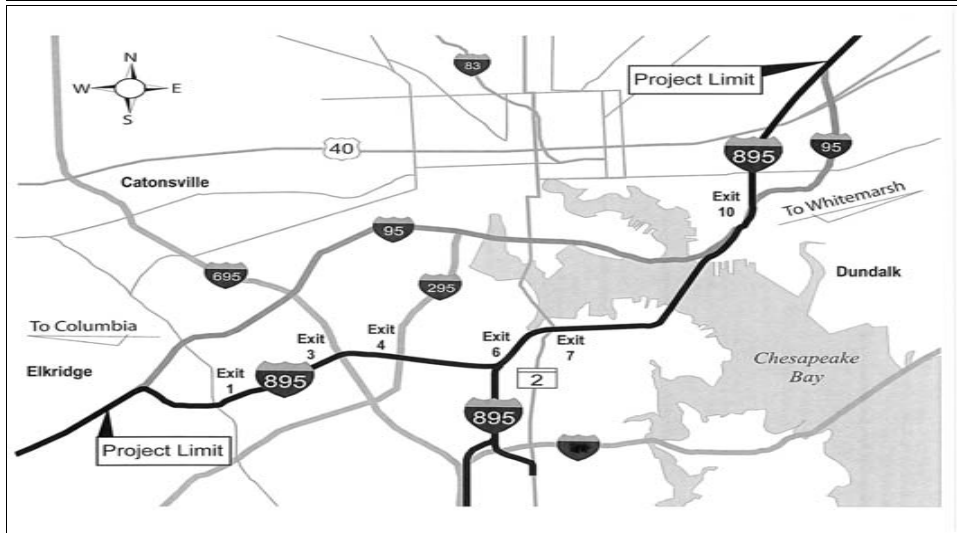
**POTENTIAL FUNDING SOURCE:**

☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                        |                        | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 |                         |                        | .....2022.....                                            | .....2023..... | .....2024..... | .....2025..... |                      |                           |
| Planning     | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Engineering  | 4,326                        | 4,326                  | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Construction | 66,548                       | 46,482                 | 5,620                   | 10,407                 | 4,039                                                     | 0              | 0              | 0              | 20,066               | 0                         |
| Total        | 70,874                       | 50,808                 | 5,620                   | 10,407                 | 4,039                                                     | 0              | 0              | 0              | 20,066               | 0                         |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.





**PROJECT:** I-895 Baltimore Harbor Tunnel Thruway - Replace Concrete Median Barrier

**DESCRIPTION:** This project will provide for the replacement of the concrete median barrier along the I-895 Baltimore Harbor Tunnel Thruway in Baltimore City.

**PURPOSE & NEED SUMMARY STATEMENT:** The existing concrete barrier was installed in the 1960's and is more than 50 years old. The concrete barrier has exceeded the expected service life of 50 years. Replacing the concrete barrier also provides an opportunity to upgrade to current standards.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input checked="" type="checkbox"/> Safety & Security   | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**EXPLANATION:** The existing concrete barrier has reached the end of its useful life and will be replaced.

**ASSOCIATED IMPROVEMENTS:**

I-895 Baltimore Harbor Tunnel Thruway - I-895 Bridge Replacement - Construction Program (Line 19)  
I-895 Baltimore Harbor Tunnel Thruway - Replace Deck and Superstructure of Bridge over Patapsco Flats - Construction Program (Line 21)

**STATUS:** Engineering is complete. Construction is underway.

**POTENTIAL FUNDING SOURCE:**

- ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☐ OTHER

| PHASE        | TOTAL                        |                        |                         |                        | PROJECTED CASH REQUIREMENTS |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | FOR PLANNING PURPOSES ONLY  |                |                |                |                      |                           |
|              |                              |                        |                         |                        | .....2022.....              | .....2023..... | .....2024..... | .....2025..... |                      |                           |
| Planning     | 0                            | 0                      | 0                       | 0                      | 0                           | 0              | 0              | 0              | 0                    | 0                         |
| Engineering  | 921                          | 921                    | 0                       | 0                      | 0                           | 0              | 0              | 0              | 0                    | 0                         |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                           | 0              | 0              | 0              | 0                    | 0                         |
| Construction | 10,557                       | 632                    | 5,545                   | 3,976                  | 404                         | 0              | 0              | 0              | 9,925                | 0                         |
| Total        | 11,478                       | 1,553                  | 5,545                   | 3,976                  | 404                         | 0              | 0              | 0              | 9,925                | 0                         |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                           | 0              | 0              | 0              | 0                    | 0                         |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** Added to the Construction Program.





**PROJECT:** I-895 Harbor Tunnel Thruway - Replace 15KV Feeder Cables

**DESCRIPTION:** Replace four 15KV feeder cables between service substations in the Canton and Fairfield Ventilation Buildings.

**PURPOSE & NEED SUMMARY STATEMENT:** Facility inspections and InterNational Electrical Testing Association (NETA) testing identified the need to replace the feeder cables.

**STATE GOALS :** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** The aging cables are at the end of their useful life and need to be replaced.

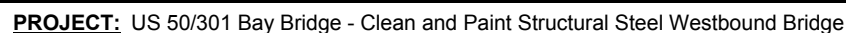
**STATUS:** Engineering is complete. Construction is underway.

**POTENTIAL FUNDING SOURCE:**

☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                        |                        | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 |                         |                        | .....2022.....                                            | .....2023..... | .....2024..... | .....2025..... |                      |                           |
| Planning     | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Engineering  | 195                          | 195                    | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Construction | 8,556                        | 1,766                  | 4,814                   | 1,976                  | 0                                                         | 0              | 0              | 0              | 6,790                | 0                         |
| Total        | 8,751                        | 1,961                  | 4,814                   | 1,976                  | 0                                                         | 0              | 0              | 0              | 6,790                | 0                         |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.



**PURPOSE & NEED SUMMARY STATEMENT:** The bridge has not been fully painted since it opened in 1973. Limited spot painting has been done as needed. The paint is showing signs of wear. This improvement will protect the steel components of the bridge and extend the useful life.

|                                     |                     |                          |                           |
|-------------------------------------|---------------------|--------------------------|---------------------------|
| <input type="checkbox"/>            | Safety & Security   | <input type="checkbox"/> | Environmental Stewardship |
| <input checked="" type="checkbox"/> | System Preservation | <input type="checkbox"/> | Community Vitality        |
| <input type="checkbox"/>            | Quality of Service  | <input type="checkbox"/> | Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:**

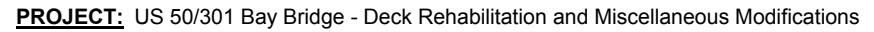
US 50/301 Bay Bridge - Deck Rehabilitation and Misc. Modifications - Constr. Program (Line 25)  
US 50/301 Bay Bridge - Rehabilitate Eastbound Bridge Deck - Construction Program (Line 26)  
US 50/301 Bay Bridge - Rehabilitate Suspension Spans WB Bridge - Construction Program (Line 27)  
US 50/301 Bay Bridge - Structural Repairs and Misc. Modifications - Construction Program (Line 28)

**STATUS:** Engineering is complete. Construction is complete for Phases I, II, and III. Phase IV construction is underway.

☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.

PAGE MdTA-24



**PURPOSE & NEED SUMMARY STATEMENT:** Inspection of the deck surface revealed the need for rehabilitation including overlays and sealing to extend the service life of the deck.

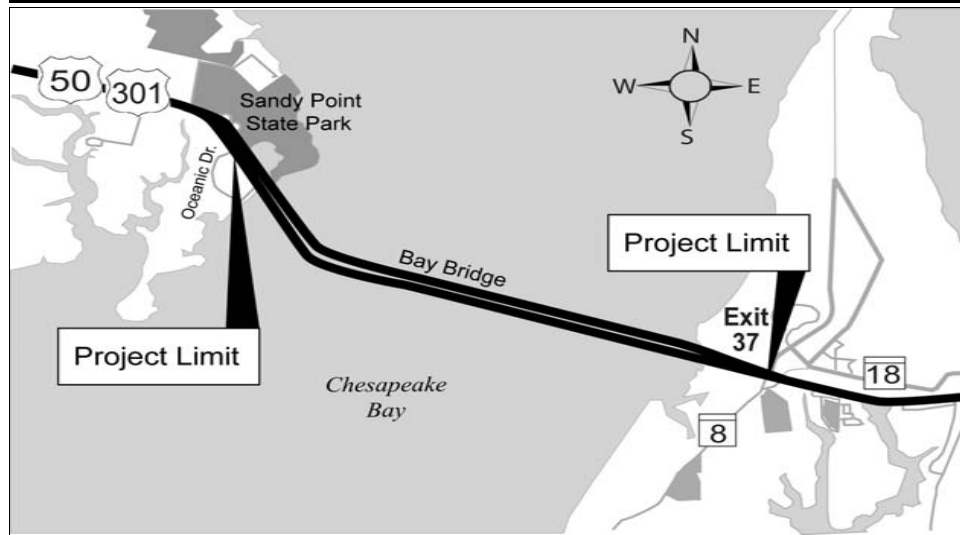
|                                     |                     |                          |                           |
|-------------------------------------|---------------------|--------------------------|---------------------------|
| <input type="checkbox"/>            | Safety & Security   | <input type="checkbox"/> | Environmental Stewardship |
| <input checked="" type="checkbox"/> | System Preservation | <input type="checkbox"/> | Community Vitality        |
| <input checked="" type="checkbox"/> | Quality of Service  | <input type="checkbox"/> | Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:**

US 50/301 Bay Bridge - Clean and Paint Structural Steel WB Bridge - Constr. Program (Line 24)  
US 50/301 Bay Bridge - Rehabilitate Eastbound Bridge Deck - Construction Program (Line 26)  
US 50/301 Bay Bridge - Rehabilitate Suspension Spans WB Bridge - Construction Program (Line 27)  
US 50/301 Bay Bridge - Structural Repairs and Misc. Modifications - Construction Program (Line 28)

**STATUS:** Engineering is complete. Construction is underway.

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** Cost increased by \$2.2 million to reflect actual bid price and increased by \$12.8 million for scope changes to include replacement of lane use signal gantries, upgrading ITS system, and resurfacing the bridge approach roadway.



**PROJECT:** US 50/301 Bay Bridge - Rehabilitate Eastbound Bridge Deck

**DESCRIPTION:** This project provides for the rehabilitation and/or replacement of the eastbound bridge deck. Only the first phase of construction, deck widening and replacement of deck struss spans, is funded.

**PURPOSE & NEED SUMMARY STATEMENT:** The eastbound deck is exhibiting various degrees of deterioration as it was last replaced in 1985. Industry standards indicate that the deck is nearing the end of its life cycle.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**EXPLANATION:** The eastbound bridge deck is exhibiting various degrees of deterioration and will be replaced or rehabilitated.

**ASSOCIATED IMPROVEMENTS:**

- US 50/301 Bay Bridge - Clean and Paint Structural Steel WB Bridge - Constr. Program (Line 24)
- US 50/301 Bay Bridge - Rehabilitate Suspension Spans WB Bridge - Construction Program (Line 27)
- US 50/301 Bay Bridge - Structural Repairs and Misc. Modifications - Construction Program (Line 28)
- US 50/301 Bay Bridge - Replace 5KV Feeder Cable on EB Span - Construction Program (Line 29)

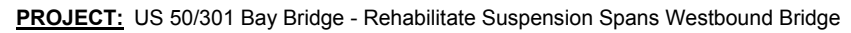
**STATUS:** Engineering is underway. Construction will begin in FY 2020.

**POTENTIAL FUNDING SOURCE:**

- ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                        |                        |                         |                        | PROJECTED CASH REQUIREMENTS |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | FOR PLANNING PURPOSES ONLY  |                |                |                |                      |                           |
|              |                              |                        |                         |                        | .....2022.....              | .....2023..... | .....2024..... | .....2025..... |                      |                           |
| Planning     | 0                            | 0                      | 0                       | 0                      | 0                           | 0              | 0              | 0              | 0                    | 0                         |
| Engineering  | 10,260                       | 6,148                  | 1,902                   | 2,210                  | 0                           | 0              | 0              | 0              | 4,112                | 0                         |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                           | 0              | 0              | 0              | 0                    | 0                         |
| Construction | 875                          | 0                      | 350                     | 525                    | 0                           | 0              | 0              | 0              | 875                  | 0                         |
| Total        | 11,135                       | 6,148                  | 2,252                   | 2,735                  | 0                           | 0              | 0              | 0              | 4,987                | 0                         |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                           | 0              | 0              | 0              | 0                    | 0                         |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** Moved to the Construction Program from the Development and Evaluation Program.



**PURPOSE & NEED SUMMARY STATEMENT:** The main suspension cable investigation of the westbound Bay Bridge found areas with varying degrees of wear. The installation of supplemental cables will maintain long-term serviceability of the suspension system. Additionally, signs of wear were found during the routine inspections of structural components of the suspended spans that will be repaired to extend the useful life of the components.

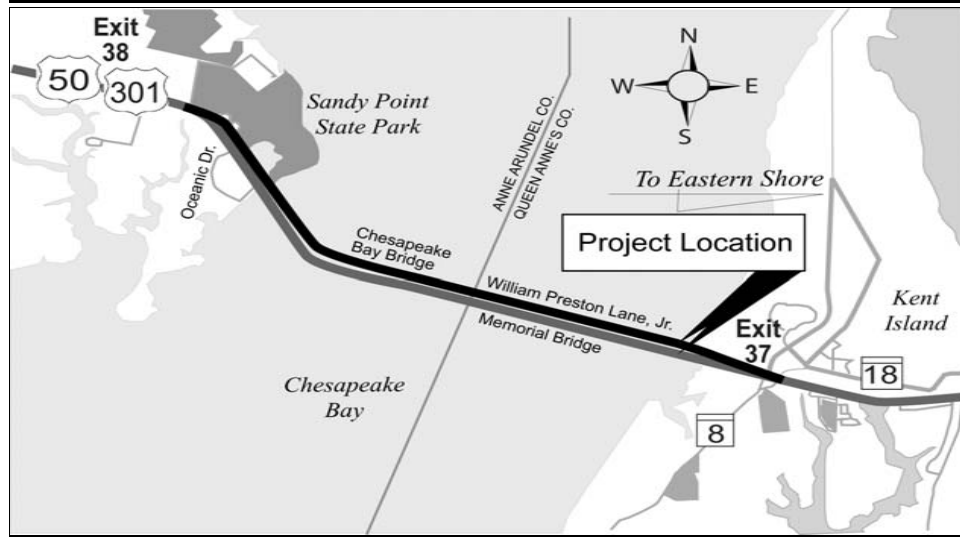
|                                     |                     |                          |                           |
|-------------------------------------|---------------------|--------------------------|---------------------------|
| <input type="checkbox"/>            | Safety & Security   | <input type="checkbox"/> | Environmental Stewardship |
| <input checked="" type="checkbox"/> | System Preservation | <input type="checkbox"/> | Community Vitality        |
| <input type="checkbox"/>            | Quality of Service  | <input type="checkbox"/> | Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:**

US 50/301 Bay Bridge - Clean and Paint Structural Steel WB Bridge - Constr. Program (Line 24)  
US 50/301 Bay Bridge - Deck Rehabilitation and Misc. Modifications - Constr. Program (Line 25)  
US 50/301 Bay Bridge - Rehabilitate Eastbound Bridge Deck - Construction Program (Line 26)  
US 50/301 Bay Bridge - Structural Repairs and Misc. Modifications - Construction Program (Line 28)

**STATUS:** Engineering and construction are underway.

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.



**PROJECT:** US 50/301 Bay Bridge - Structural Repairs and Miscellaneous Modifications

**DESCRIPTION:** This project includes structural concrete and steel repairs to both spans of the Bay Bridge. Bid specific work addresses priority repairs with an emphasis on minimizing lane closures with the use of rigging and barge access. An additional phase of structural work has been added to include replacement or rehabilitation to components of the suspension spans.

**PURPOSE & NEED SUMMARY STATEMENT:** The routine inspections of the eastbound and westbound spans of the Bay Bridge found areas of the structural steel, concrete, and deck joints with signs of wear. Repairs to these components will extend the useful life of the bridge. Recent inspections indicated additional structural work needed to suspension span components that have been experiencing defects and deterioration. This includes replacement of rocker links and wind tongues and rehabilitation of bearings. Navigational lighting renovations have also been added as they can be well coordinated with the structural work.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**EXPLANATION:** This project will repair areas of wear and extend the useful life of the components.

**ASSOCIATED IMPROVEMENTS:**

- US 50/301 Bay Bridge - Clean and Paint Structural Steel WB Bridge - Constr. Program (Line 24)
- US 50/301 Bay Bridge - Deck Rehabilitation and Misc. Modifications - Constr. Program (Line 25)
- US 50/301 Bay Bridge - Rehabilitate Eastbound Bridge Deck - Construction Program (Line 26)
- US 50/301 Bay Bridge - Rehabilitate Suspension Spans WB Bridge - Construction Program (Line 27)

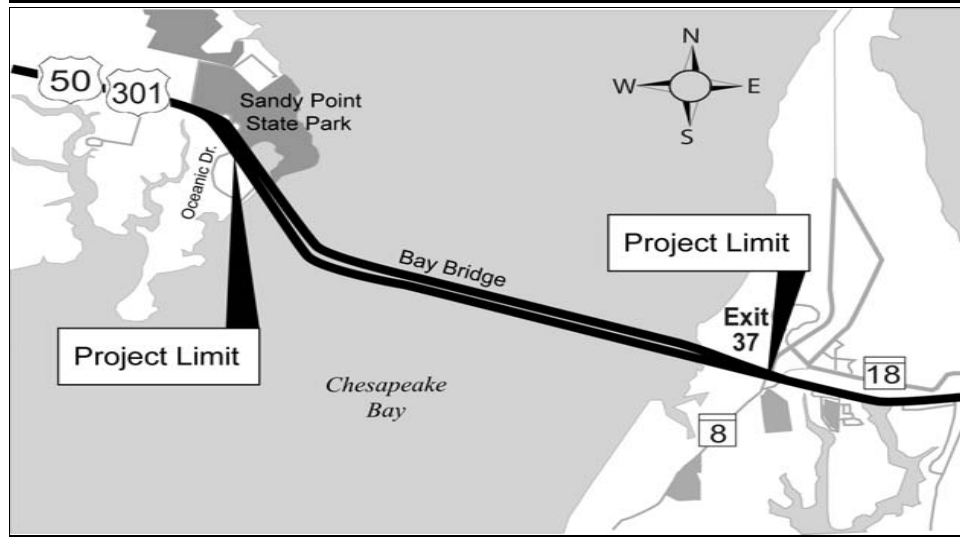
**STATUS:** Engineering and construction are underway.

**POTENTIAL FUNDING SOURCE:**

- ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL     |        |         |        | PROJECTED CASH REQUIREMENTS |                |                |                |       | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|-----------|--------|---------|--------|-----------------------------|----------------|----------------|----------------|-------|----------------------|---------------------------|
|              | ESTIMATED | EXPEND | CURRENT | BUDGET | FOR PLANNING PURPOSES ONLY  |                |                |                |       |                      |                           |
|              | COST      | THRU   | YEAR    | YEAR   |                             |                |                |                |       |                      |                           |
|              | (\$000)   | 2019   | 2020    | 2021   | .....2022.....              | .....2023..... | .....2024..... | .....2025..... |       |                      |                           |
| Planning     | 0         | 0      | 0       | 0      | 0                           | 0              | 0              | 0              | 0     | 0                    |                           |
| Engineering  | 2,644     | 1,775  | 869     | 0      | 0                           | 0              | 0              | 0              | 869   | 0                    |                           |
| Right-of-way | 0         | 0      | 0       | 0      | 0                           | 0              | 0              | 0              | 0     | 0                    |                           |
| Construction | 51,413    | 42,870 | 8,543   | 0      | 0                           | 0              | 0              | 0              | 8,543 | 0                    |                           |
| Total        | 54,057    | 44,645 | 9,412   | 0      | 0                           | 0              | 0              | 0              | 9,412 | 0                    |                           |
| Federal-Aid  | 0         | 0      | 0       | 0      | 0                           | 0              | 0              | 0              | 0     | 0                    |                           |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.



**PROJECT:** US 50/301 Bay Bridge - Replace 5KV Feeder Cable on Eastbound Span

**DESCRIPTION:** Replace 5KV feeder cable on the eastbound span of the Bay Bridge. This project includes changes in location and design to improve reliability.

**PURPOSE & NEED SUMMARY STATEMENT:** Facility inspections and InterNational Electrical Testing Association (NETA) testing identified the need to replace the feeder cable and associated components.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input type="checkbox"/> Quality of Service             | <input type="checkbox"/> Economic Prosperity       |

**EXPLANATION:** The aging cables are at the end of their useful life and need to be replaced.

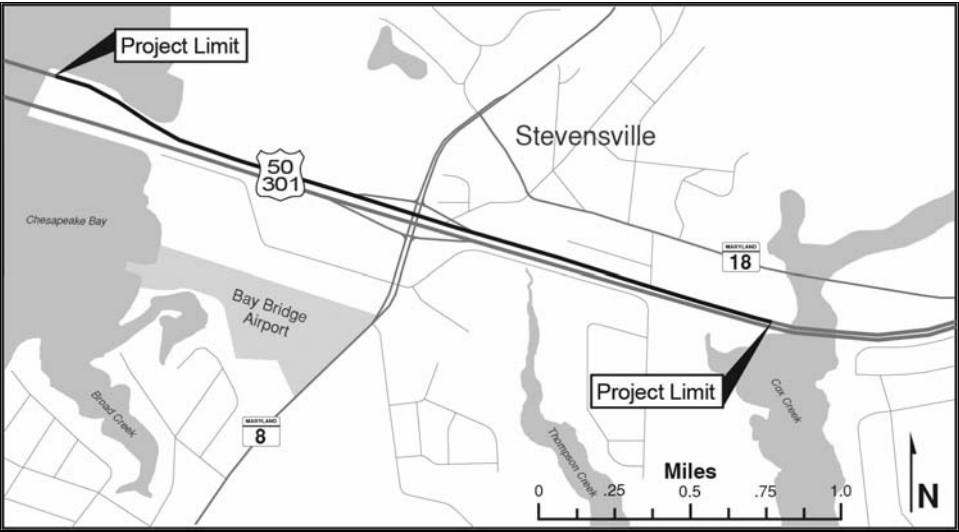
**ASSOCIATED IMPROVEMENTS:**

US 50/301 Bay Bridge - Rehabilitate Eastbound Bridge Deck - Construction Program (Line 26)  
US 50/301 Bay Bridge - Crossover Automated Lane Closure System - Construction Program (Line 30)

**STATUS:** Engineering and construction are underway.

| POTENTIAL FUNDING SOURCE: |                                       |                        |                         |                        |                                                           |                                  |                                  |                                           |                      |                           |
|---------------------------|---------------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------------------------|----------------------------------|-------------------------------------------|----------------------|---------------------------|
|                           |                                       |                        |                         |                        | <input type="checkbox"/> SPECIAL                          | <input type="checkbox"/> FEDERAL | <input type="checkbox"/> GENERAL | <input checked="" type="checkbox"/> OTHER |                      |                           |
| PHASE                     | TOTAL<br>ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                                  |                                  |                                           | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
| Planning                  | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |
| Engineering               | 1,818                                 | 1,797                  | 21                      | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 21                   | 0                         |
| Right-of-way              | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |
| Construction              | 37,775                                | 21                     | 5,199                   | 26,990                 | 5,565                                                     | 0                                | 0                                | 0                                         | 37,754               | 0                         |
| Total                     | 39,593                                | 1,818                  | 5,220                   | 26,990                 | 5,565                                                     | 0                                | 0                                | 0                                         | 37,775               | 0                         |
| Federal-Aid               | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0                                | 0                                | 0                                         | 0                    | 0                         |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** Cost increased by \$7.5 million to reflect actual bid price and by \$7.1 million for design changes to accommodate design changes in the Crossover Automated Lane Closure System and the Eastbound Span Deck Rehabilitation projects.



**PROJECT:** US 50/301 Bay Bridge - Crossover Automated Lane Closure System

**DESCRIPTION:** The automated lane closure system includes enhanced lane use signals, gantries, pavement markings, dynamic in-pavement lights, dynamic message signs (DMS), and cameras to deploy lane closure and two-way traffic automatically.

**PURPOSE & NEED SUMMARY STATEMENT:** The installation of an automated lane closure system will reduce the response time and improve safety for implementing lane closure and two-way traffic operations on the bridge for incidents and construction work. The original span opened in July 1952 and provides a two-lane roadway for eastbound traffic. The parallel structure opened in June 1973 and has three lanes for westbound travelers. During periods of heavy eastbound traffic, one lane of the westbound bridge is reversed to carry eastbound travelers ("two-way" traffic operations).

**STATE GOALS :** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- ☒ Safety & Security
- ☐ System Preservation
- ☒ Quality of Service
- ☐ Environmental Stewardship
- ☐ Community Vitality
- ☐ Economic Prosperity

**EXPLANATION:** The enhancement of the lane closure and two-way traffic operations system will improve and reduce the response on the bridge for incidents and construction work.

**ASSOCIATED IMPROVEMENTS:**

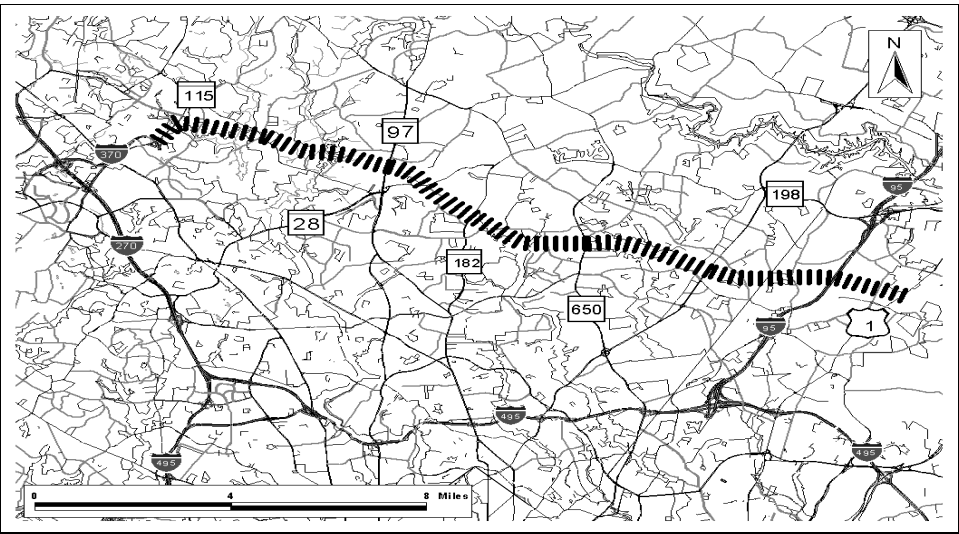
- US 50/301 Bay Bridge - Rehabilitate Eastbound Bridge Deck - Construction Program (Line 26)
- US 50/301 Bay Bridge - Replace 5KV Feeder Cable on EB Span - Construction Program (Line 29)

**STATUS:** Engineering and construction are underway.

| <u>POTENTIAL FUNDING SOURCE:</u> |                 |              |              | <input type="checkbox"/> SPECIAL | <input type="checkbox"/> FEDERAL | <input type="checkbox"/> GENERAL | <input checked="" type="checkbox"/> OTHER |                |                      |                           |
|----------------------------------|-----------------|--------------|--------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------------------|----------------|----------------------|---------------------------|
| PHASE                            | TOTAL           |              |              |                                  | PROJECTED CASH REQUIREMENTS      |                                  |                                           |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|                                  | ESTIMATED       | EXPEND       | CURRENT      | BUDGET                           | FOR PLANNING PURPOSES ONLY       |                                  |                                           |                |                      |                           |
|                                  | COST<br>(\$000) | THRU<br>2019 | YEAR<br>2020 | YEAR<br>2021                     | .....2022.....                   | .....2023.....                   | .....2024.....                            | .....2025..... |                      |                           |
| Planning                         | 0               | 0            | 0            | 0                                | 0                                | 0                                | 0                                         | 0              | 0                    | 0                         |
| Engineering                      | 1,225           | 1,175        | 50           | 0                                | 0                                | 0                                | 0                                         | 0              | 50                   | 0                         |
| Right-of-way                     | 0               | 0            | 0            | 0                                | 0                                | 0                                | 0                                         | 0              | 0                    | 0                         |
| Construction                     | 16,718          | 13           | 805          | 8,678                            | 6,397                            | 825                              | 0                                         | 0              | 16,705               | 0                         |
| Total                            | 17,943          | 1,188        | 855          | 8,678                            | 6,397                            | 825                              | 0                                         | 0              | 16,755               | 0                         |
| Federal-Aid                      | 0               | 0            | 0            | 0                                | 0                                | 0                                | 0                                         | 0              | 0                    | 0                         |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** Cost increased by \$4.7 million due to scope refinement at 100% design and environmental permits work.





**PROJECT:** MD 200, InterCounty Connector

**DESCRIPTION:** Constructed a new east-west, multi-modal highway in Montgomery County and Prince George's County between I-270 and I-95/US 1.

**PURPOSE & NEED SUMMARY STATEMENT:** This transportation project was needed to increase community mobility and safety; to support development and local land use plans; to improve access between economic growth centers; to advance homeland security measures; and to help restore the natural, human, and cultural environments from past development impacts in the project area.

**STATE GOALS :** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- ☒ Safety & Security
- ☐ System Preservation
- ☒ Quality of Service
- ☒ Environmental Stewardship
- ☒ Community Vitality
- ☒ Economic Prosperity

**EXPLANATION:** The project increases community mobility and safety; supports development and local land use plans; improves access between economic growth centers; advances homeland security measures; and helps restore the natural, human and cultural environments from past development impacts in the project area.

**ASSOCIATED IMPROVEMENTS:**

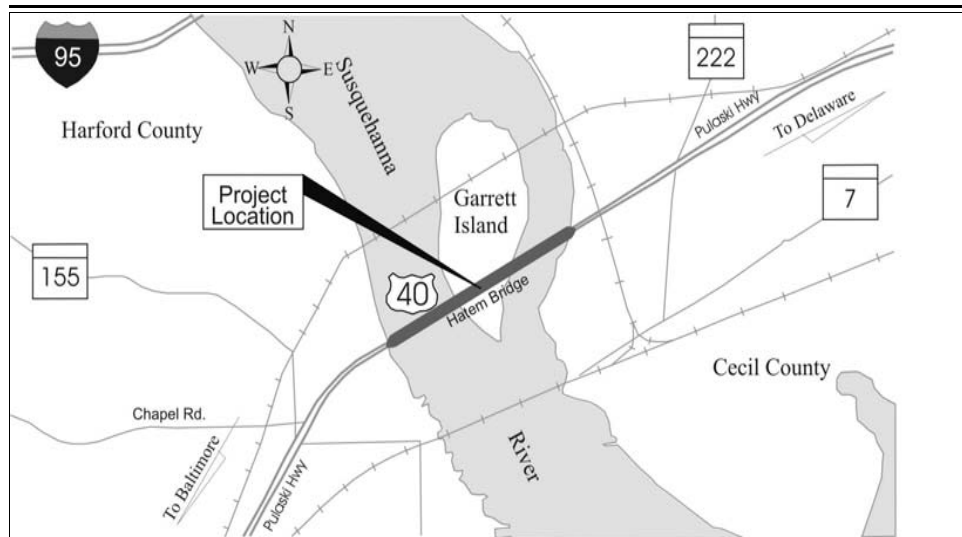
- US 29 Interchanges (Lines 7, 8, Montgomery County - SHA)
- MD 28/MD 198, MD 97 to I-95 (Line 9, Montgomery County - SHA)
- MD 201 Extended/US 1, I-95/I-495 to N. of Muirkirk Road (Line 26, Prince George's County - SHA)

**STATUS:** The facility is open to service. Final construction elements, environmental mitigation, and stewardship projects are underway.

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.

| POTENTIAL FUNDING SOURCE: |                        | <input checked="" type="checkbox"/> SPECIAL | <input checked="" type="checkbox"/> FEDERAL | <input checked="" type="checkbox"/> GENERAL | <input checked="" type="checkbox"/> OTHER              |                |                |                |                |                     |
|---------------------------|------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|--------------------------------------------------------|----------------|----------------|----------------|----------------|---------------------|
| PHASE                     | TOTAL                  |                                             | CURRENT YEAR                                | BUDGET YEAR                                 | PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY |                |                |                | SIX YEAR TOTAL | BALANCE TO COMPLETE |
|                           | ESTIMATED COST (\$000) | EXPEND THRU 2019                            |                                             |                                             | .....2022.....                                         | .....2023..... | .....2024..... | .....2025..... |                |                     |
| Planning                  | 29,657                 | 29,657                                      | 0                                           | 0                                           | 0                                                      | 0              | 0              | 0              | 0              | 0                   |
| Engineering               | 75,183                 | 75,183                                      | 0                                           | 0                                           | 0                                                      | 0              | 0              | 0              | 0              | 0                   |
| Right-of-way              | 244,550                | 243,425                                     | 1,125                                       | 0                                           | 0                                                      | 0              | 0              | 0              | 1,125          | 0                   |
| Construction              | 2,027,888              | 2,017,366                                   | 1,375                                       | 2,500                                       | 2,500                                                  | 2,500          | 1,647          | 0              | 10,522         | 0                   |
| Total                     | 2,377,278              | 2,365,631                                   | 2,500                                       | 2,500                                       | 2,500                                                  | 2,500          | 1,647          | 0              | 11,647         | 0                   |
| Federal-Aid               | 19,270                 | 19,270                                      | 0                                           | 0                                           | 0                                                      | 0              | 0              | 0              | 0              | 0                   |

The Federal-Aid share of \$19.27 million is also included in SHA's portion of the CTP.  
1982



**DESCRIPTION:** Remove existing equipment and install equipment to convert to cashless tolling, demolish existing toll plaza, reconstruct mainline MD 40 and service roads north of the Hatem Bridge, construct truck inspection areas, and make environmental management improvements.

**PURPOSE & NEED SUMMARY STATEMENT:** Cashless tolling will provide toll collection at highway speeds through the electronic methods of E-ZPass and video tolling. The advantages of converting to cashless tolling include reduced travel time; increased safety/reduced crashes; alignment with national practice; improved customer convenience; reduced emissions; and reduction in toll collection and maintenance costs. Cashless tolling has been used successfully at the MDTA's MD 200 Intercounty Connector (ICC) and the I-95 Express Toll Lanes (ETL).

|                                                        |                                                         |
|--------------------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Safety & Security             | <input type="checkbox"/> Environmental Stewardship      |
| <input type="checkbox"/> System Preservation           | <input checked="" type="checkbox"/> Community Vitality  |
| <input checked="" type="checkbox"/> Quality of Service | <input checked="" type="checkbox"/> Economic Prosperity |

**ASSOCIATED IMPROVEMENTS:** None.

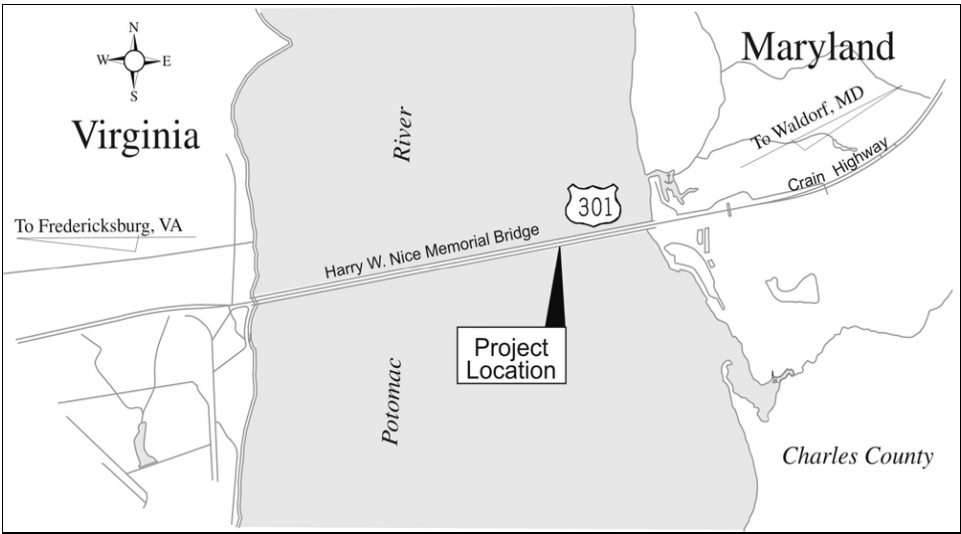
**EXPLANATION:** Changing to cashless tolling at the Hatem Bridge will provide toll collection at highway speeds through the electronic methods of E-Zpass and video tolling.

**STATUS:** Engineering is complete. Construction is underway.

☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** Added to the Construction Program.

[illegible]



**PROJECT:** US 301 Governor Harry W. Nice Memorial/Senator Thomas "Mac" Middleton Bridge - Replace Nice/Middleton Bridge

**DESCRIPTION:** Replace the current bridge with a new 4-lane bridge.

**PURPOSE & NEED SUMMARY STATEMENT:** The existing bridge does not meet current standards, i.e., narrow lanes, lack of shoulders, and steep grades with lack of truck climbing lanes. The existing bridge is reaching capacity during peak periods. Traffic is projected to increase by 45 percent on weekdays and 33 percent on weekends by 2025.

**STATE GOALS :** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                        |                                                        |
|--------------------------------------------------------|--------------------------------------------------------|
| <input checked="" type="checkbox"/> Safety & Security  | <input type="checkbox"/> Environmental Stewardship     |
| <input type="checkbox"/> System Preservation           | <input checked="" type="checkbox"/> Community Vitality |
| <input checked="" type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity           |

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** The new 4-lane bridge will be safer and relieve congestion.

**STATUS:** Planning is complete. Engineering and right-of-way acquisition are underway. Construction is scheduled to begin in the spring of 2020.

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** Cost decreased by \$132.8 million to reflect actual bid price.

| POTENTIAL FUNDING SOURCE: |                                       |                        |                         |                        | <input type="checkbox"/> SPECIAL                          |                | <input type="checkbox"/> FEDERAL |                | <input type="checkbox"/> GENERAL |                           | <input checked="" type="checkbox"/> OTHER |  |
|---------------------------|---------------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------|----------------------------------|----------------|----------------------------------|---------------------------|-------------------------------------------|--|
| PHASE                     | TOTAL<br>ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                |                                  |                | SIX<br>YEAR<br>TOTAL             | BALANCE<br>TO<br>COMPLETE |                                           |  |
|                           |                                       |                        |                         |                        | .....2022.....                                            | .....2023..... | .....2024.....                   | .....2025..... |                                  |                           |                                           |  |
| Planning                  | 5,295                                 | 5,295                  | 0                       | 0                      | 0                                                         | 0              | 0                                | 0              | 0                                | 0                         |                                           |  |
| Engineering               | 35,466                                | 28,466                 | 7,000                   | 0                      | 0                                                         | 0              | 0                                | 0              | 7,000                            | 0                         |                                           |  |
| Right-of-way              | 4,907                                 | 907                    | 2,000                   | 1,000                  | 1,000                                                     | 0              | 0                                | 0              | 4,000                            | 0                         |                                           |  |
| Construction              | 590,120                               | 0                      | 20,986                  | 44,073                 | 161,266                                                   | 194,071        | 117,294                          | 52,430         | 590,120                          | 0                         |                                           |  |
| Total                     | 635,788                               | 34,668                 | 29,986                  | 45,073                 | 162,266                                                   | 194,071        | 117,294                          | 52,430         | 601,120                          | 0                         |                                           |  |
| Federal-Aid               | 0                                     | 0                      | 0                       | 0                      | 0                                                         | 0              | 0                                | 0              | 0                                | 0                         |                                           |  |



**PROJECT:** Authority-Wide - Replace Electronic Toll Collection and Operating System - 3rd Generation

**DESCRIPTION:** The project will design and build a replacement toll system and services to support it; and design and build a new Customer Service Center (CSC) and provide the services to operate it. These projects include account and transaction processing systems, CSC phone systems, IVR, MVA lookups, reporting, operations, web site, mobile app, image review services, reciprocity services, enforcement services, and maintenance services for six to up to ten years.

**PURPOSE & NEED SUMMARY STATEMENT:** This project will update the Electronic Toll Collection hardware and Operating System software and increase the capacity for handling video tolling and citations.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Safety & Security              | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality        |
| <input checked="" type="checkbox"/> Quality of Service  | <input type="checkbox"/> Economic Prosperity       |

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** This project will update the Electronic Toll Collection hardware and Operating System software and increase the capacity for handling video tolling and citations.

**STATUS:** Engineering and construction are underway.

**POTENTIAL FUNDING SOURCE:**

☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                        |                        | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) | EXPEND<br>THRU<br>2019 |                         |                        | .....2022.....                                            | .....2023..... | .....2024..... | .....2025..... |                      |                           |
| Planning     | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Engineering  | 15,784                       | 10,726                 | 1,000                   | 910                    | 455                                                       | 228            | 114            | 57             | 2,764                | 2,294                     |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Construction | 102,978                      | 15,847                 | 44,380                  | 8,292                  | 4,722                                                     | 3,941          | 4,115          | 4,438          | 69,888               | 17,243                    |
| Total        | 118,762                      | 26,573                 | 45,380                  | 9,202                  | 5,177                                                     | 4,169          | 4,229          | 4,495          | 72,652               | 19,537                    |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.



**PROJECT:** US 50/301 Bay Bridge - Tier 1 NEPA Study

**DESCRIPTION:** Complete traffic, engineering, and environmental analyses. Fully engage regulatory agencies, elected officials, and public. Determine crossing location and explore financial viability. This study is financed in the MDTA operating budget.

**JUSTIFICATION:** In the course of this study MDTA will solicit input from elected officials, regulatory agencies, and multiple stakeholders. The study will include securing formal agency agreement on a crossing location.

**ASSOCIATED IMPROVEMENTS:** None.

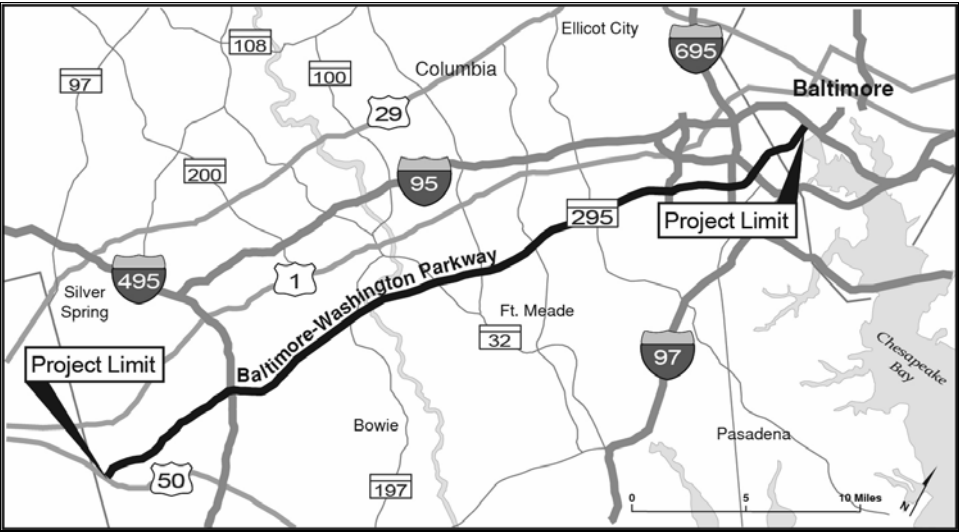
**STATUS:** Planning is underway.

POTENTIAL FUNDING SOURCE:

☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

| PHASE        | TOTAL                        | EXPEND<br>THRU<br>2019 | CURRENT<br>YEAR<br>2020 | BUDGET<br>YEAR<br>2021 | PROJECTED CASH REQUIREMENTS<br>FOR PLANNING PURPOSES ONLY |                |                |                | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|--------------|------------------------------|------------------------|-------------------------|------------------------|-----------------------------------------------------------|----------------|----------------|----------------|----------------------|---------------------------|
|              | ESTIMATED<br>COST<br>(\$000) |                        |                         |                        | .....2022.....                                            | .....2023..... | .....2024..... | .....2025..... |                      |                           |
| Planning     | 5,000                        | 2,513                  | 1,500                   | 987                    | 0                                                         | 0              | 0              | 0              | 2,487                | 0                         |
| Engineering  | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Right-of-way | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Construction | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |
| Total        | 5,000                        | 2,513                  | 1,500                   | 987                    | 0                                                         | 0              | 0              | 0              | 2,487                | 0                         |
| Federal-Aid  | 0                            | 0                      | 0                       | 0                      | 0                                                         | 0              | 0              | 0              | 0                    | 0                         |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.



**PROJECT:** Traffic Relief Plan: MD 295

**DESCRIPTION:** Planning study in support of the Traffic Relief Plan, which will implement Express Toll Lanes (ETL) along MD 295. Requires transfer of the Baltimore-Washington Parkway from the National Park Service to MDTA. MDTA will own, operate, and maintain the entire roadway from I-95 to US 50 (approximately 29.5 miles). This study is financed in the MDTA operating budget.

**JUSTIFICATION:** MD 295 carries more than 120,000 people daily, and is congested 7 hours per day.

**ASSOCIATED IMPROVEMENTS:** None.

**STATUS:** Planning has not started.

| POTENTIAL FUNDING SOURCE: <input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER |           |        |         |        |                             |                |                |                |    |                      |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|---------|--------|-----------------------------|----------------|----------------|----------------|----|----------------------|---------------------------|
| PHASE                                                                                                                                                                  | TOTAL     |        |         |        | PROJECTED CASH REQUIREMENTS |                |                |                |    | SIX<br>YEAR<br>TOTAL | BALANCE<br>TO<br>COMPLETE |
|                                                                                                                                                                        | ESTIMATED | EXPEND | CURRENT | BUDGET | FOR PLANNING PURPOSES ONLY  |                |                |                |    |                      |                           |
|                                                                                                                                                                        | COST      | THRU   | YEAR    | YEAR   |                             |                |                |                |    |                      |                           |
|                                                                                                                                                                        | (\$000)   | 2019   | 2020    | 2021   | .....2022.....              | .....2023..... | .....2024..... | .....2025..... |    |                      |                           |
| Planning                                                                                                                                                               | 25        | 0      | 25      | 0      | 0                           | 0              | 0              | 0              | 25 | 0                    |                           |
| Engineering                                                                                                                                                            | 0         | 0      | 0       | 0      | 0                           | 0              | 0              | 0              | 0  | 0                    |                           |
| Right-of-way                                                                                                                                                           | 0         | 0      | 0       | 0      | 0                           | 0              | 0              | 0              | 0  | 0                    |                           |
| Construction                                                                                                                                                           | 0         | 0      | 0       | 0      | 0                           | 0              | 0              | 0              | 0  | 0                    |                           |
| Total                                                                                                                                                                  | 25        | 0      | 25      | 0      | 0                           | 0              | 0              | 0              | 25 | 0                    |                           |
| Federal-Aid                                                                                                                                                            | 0         | 0      | 0       | 0      | 0                           | 0              | 0              | 0              | 0  | 0                    |                           |

**SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP:** None.

## SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

### MARYLAND TRANSPORTATION AUTHORITY - LINE 37

| ITEM NO. | DESCRIPTION AND IMPROVEMENT TYPE                                                | TOTAL PROJECT COST (\$000's) | CONSTRUCTION START |
|----------|---------------------------------------------------------------------------------|------------------------------|--------------------|
|          | <b><u>Fiscal Year 2019 Completions</u></b>                                      |                              |                    |
|          | <b><u>F.S.KEY BRIDGE</u></b>                                                    |                              |                    |
| 1        | I-695 Subgrade Improvements at Bear Creek (Engineering only) (2450)             | 667                          | Complete           |
| 2        | Renovate Second Floor of Administration Building 303 (2406)                     | 6,935                        | Complete           |
| 3        | Replace Underground Storage Tanks (2202)                                        | 2,618                        | Complete           |
|          | <b><u>FORT MCHENRY TUNNEL</u></b>                                               |                              |                    |
| 4        | Salt Barn Replacement, Debris Dewatering Pad and Civil Site Construction (2299) | 8,243                        | Complete           |
|          | <b><u>HATEM BRIDGE</u></b>                                                      |                              |                    |
| 5        | Rehabilitate Substructure and Superstructure (2368)                             | 7,759                        | Complete           |
|          | <b><u>MULTI-AREA</u></b>                                                        |                              |                    |
| 6        | DYNAC Traffic Control System Upgrade (2468)                                     | 498                          | Complete           |
| 7        | Facility-Wide Culvert and Pipe Rehabilitation - Phase I (2390)                  | 3,267                        | Complete           |
| 8        | On-Call Sign Structures (2298)                                                  | 2,584                        | Complete           |
| 9        | On-Call Structural Repairs and Miscellaneous Modifications (2415)               | 15,443                       | Complete           |
| 10       | Replace Uninterruptible Power Supplies (2413)                                   | 394                          | Complete           |
|          | <b><u>W. P. LANE BRIDGE</u></b>                                                 |                              |                    |
| 11       | Replace Bay Bridge Staging Dock (2392)                                          | 5,158                        | Complete           |

## SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

### MARYLAND TRANSPORTATION AUTHORITY - LINE 37 (cont'd)

| ITEM NO. | DESCRIPTION AND IMPROVEMENT TYPE                                                            | FY20 + FY21<br>PROJECT<br>COST<br>(\$000's) | CONSTRUCTION<br>START |
|----------|---------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------|
|          | <b><u>Fiscal Year 2020 and 2021</u></b>                                                     |                                             |                       |
|          | <b><u>BALTIMORE HARBOR TUNNEL</u></b>                                                       |                                             |                       |
| 12       | Administration Building Roof Replacement and Envelope Rehabilitation (2439)                 | 3,452                                       | Underway              |
| 13       | Canton & Fairfield Vent Building Envelope Repairs (Engineering only) (2306)                 | 582                                         | Underway              |
| 14       | I-895 Frankfurst Interchange Modifications (Engineering only) (2487)                        | 207                                         | Underway              |
| 15       | I-895 TMDL Stream Restoration Upstream of BY052X01 (2454)                                   | 2,595                                       | Underway              |
| 16       | Mill and Overlay Bridge Decks (2437)                                                        | 6,820                                       | Underway              |
| 17       | Rehabilitate BHT Tunnel Lighting System (Engineering only) (2529)                           | 175                                         | Underway              |
| 18       | Repair Slopes and Drainage (2380)                                                           | 3,249                                       | Underway              |
| 19       | Replace Bridges on I-895 over I-695 (Engineering only) (2527)                               | 1,000                                       | Underway              |
|          | <b><u>F.S.KEY BRIDGE</u></b>                                                                |                                             |                       |
| 20       | Building Renovations at FSK Campus (2319)                                                   | 5,689                                       | Underway              |
| 21       | Furnish & Install Fiber Optic Cable from FSK to Point Breeze (2386)                         | 36                                          | Underway              |
| 22       | Maintenance & Repair of Curtis Creek Drawbridges (2420)                                     | 710                                         | Underway              |
| 23       | MDTA Police Training Academy (Engineering only) (2521)                                      | 494                                         | Underway              |
| 24       | Police Headquarters Building Envelope Renovations (2438)                                    | 3,464                                       | Underway              |
| 25       | Protection of Concrete Substructure of FSK Bridge (Engineering only) (2514)                 | 103                                         | Underway              |
|          | <b><u>FORT MCHENRY TUNNEL</u></b>                                                           |                                             |                       |
| 26       | Bridge Deck Rehabilitation and Miscellaneous Repairs to FMT South (Engineering only) (2508) | 478                                         | Underway              |
| 27       | Cleaning and Painting Various Bridges (Engineering only) (2511)                             | 100                                         | Underway              |
| 28       | Convert to Cashless Tolling at the Fort McHenry Tunnel (Engineering only) (2517)            | 2,285                                       | Underway              |
| 29       | Fatigue Retrofits on I-95 (Engineering only) (2449)                                         | 97                                          | Underway              |
| 30       | Install Fire Suppression System (Engineering only) (2505)                                   | 700                                         | Underway              |
| 31       | Install Fresh Air Duct Lighting (2367)                                                      | 708                                         | Underway              |
| 32       | MDTA Police Vehicle Storage Garage (Engineering only) (2499)                                | 585                                         | Underway              |
| 33       | Rehabilitate Tunnel 15 KV Cable, Conduit, and Concrete Wall (Engineering only) (2458)       | 693                                         | Underway              |



## SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

### MARYLAND TRANSPORTATION AUTHORITY - LINE 37 (cont'd)

| ITEM NO. | DESCRIPTION AND IMPROVEMENT TYPE                                                                    | FY20 + FY21 PROJECT COST (\$000's) | CONSTRUCTION START |
|----------|-----------------------------------------------------------------------------------------------------|------------------------------------|--------------------|
|          | <b><u>Fiscal Year 2020 and 2021 (cont'd)</u></b>                                                    |                                    |                    |
|          | <b><u>FORT MCHENRY TUNNEL (cont'd)</u></b>                                                          |                                    |                    |
| 34       | Renovate 1st and 5th Floors at East Vent Building (2364)                                            | 500                                | Underway           |
| 35       | Substructure and Superstructure Rehabilitation to Various Bridges on I-95 (Engineering only) (2513) | 521                                | Underway           |
|          | <b><u>HATEM BRIDGE</u></b>                                                                          |                                    |                    |
| 36       | Cleaning and Painting of the Hatem Bridge (Engineering only) (2512)                                 | 100                                | Underway           |
|          | <b><u>INTERCOUNTY CONNECTOR</u></b>                                                                 |                                    |                    |
| 37       | ICC Fiber Optic Utility Tracer Wire (2482)                                                          | 1,991                              | Underway           |
|          | <b><u>KENNEDY HIGHWAY</u></b>                                                                       |                                    |                    |
| 38       | Deck Sealing & Miscellaneous Rehabilitation to Bridges on I-95 (2430)                               | 183                                | Underway           |
| 39       | Maintenance Facility 2 Building Renovations (2440)                                                  | 1,005                              | Underway           |
| 40       | Maintenance Facility Complex (Engineering only) (2500)                                              | 965                                | Underway           |
| 41       | Replace I-95 Bridge over CSXT (Engineering only) (2436)                                             | 388                                | Underway           |
| 42       | Structural Rehabilitation of the Millard E. Tydings Memorial Bridge (Engineering only) (2509)       | 90                                 | Underway           |
| 43       | Substation and Electrical Equipment Replacement (2484)                                              | 2,351                              | Underway           |
| 44       | Substructure and Superstructure Rehabilitation to Various Bridges on I-95 (Engineering only) (2452) | 516                                | Underway           |
|          | <b><u>MULTI-AREA</u></b>                                                                            |                                    |                    |
| 45       | Allocated Reserve - Enhancement Projects (2445)                                                     | 1,823                              | Ongoing            |
| 46       | Allocated Reserve - System Preservation Projects (2325)                                             | 26,836                             | Ongoing            |
| 47       | 10-Year Equipment Budget - FY 2018 through FY 2027 (2471)                                           | 11,197                             | Underway           |
| 48       | Bay TMDL Stormwater Retrofits - Phase IV (2404)                                                     | 2,211                              | Underway           |
| 49       | Bay TMDL Stormwater Retrofits - Phase VI (2444)                                                     | 1,059                              | Underway           |

## SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

### MARYLAND TRANSPORTATION AUTHORITY - LINE 37 (cont'd)

| ITEM NO. | DESCRIPTION AND IMPROVEMENT TYPE                                                                    | FY20 + FY21 PROJECT COST (\$000's) | CONSTRUCTION START |
|----------|-----------------------------------------------------------------------------------------------------|------------------------------------|--------------------|
|          | <b><u>Fiscal Year 2020 and 2021 (cont'd)</u></b>                                                    |                                    |                    |
|          | <b><u>MULTI-AREA (cont'd)</u></b>                                                                   |                                    |                    |
| 50       | Clean and Paint Bridges on BHT Thruway and JFK Highway (2466)                                       | 1,855                              | Underway           |
| 51       | Evaluate Condition of Deck, Superstructure & Substructures All Facilities (Engineering only) (2083) | 250                                | Underway           |
| 52       | Furnish and Install License Plate Recognition Systems (2360)                                        | 1,084                              | Underway           |
| 53       | Install E-ZPass Back-Up Site (2225)                                                                 | 638                                | Underway           |
| 54       | Install Ten Virtual Weigh Stations at JFK, TJH, FMT, BHT and FSK (2073)                             | 235                                | Underway           |
| 55       | Mainline Small Drainage System Preservation (2421)                                                  | 140                                | Underway           |
| 56       | Maximo 7.6 Software (2478)                                                                          | 68                                 | Underway           |
| 57       | On-Call Building Systems Rehabilitation/Replacement (2524)                                          | 411                                | Underway           |
| 58       | On-Call Drainage and Stormwater BMP Remediation III (2496)                                          | 2,518                              | Underway           |
| 59       | On-Call Drainage and Stormwater Remediation (2422)                                                  | 239                                | Underway           |
| 60       | On-Call Electrical and ITS - #3 (2418)                                                              | 2,798                              | Underway           |
| 61       | On-Call Electrical and ITS (2345)                                                                   | 20                                 | Underway           |
| 62       | On-Call Electrical/ITS (2498)                                                                       | 4,493                              | Underway           |
| 63       | On-Call Facility/Building Repairs (2523)                                                            | 440                                | Underway           |
| 64       | On-Call Miscellaneous Paving Repairs (2485)                                                         | 7,075                              | Underway           |
| 65       | On-Call Signs, Sign Lights and Sign Structures (2426)                                               | 2,931                              | Underway           |
| 66       | On-Call Signs, Sign Lights, and Sign Structures (2507)                                              | 3,983                              | Underway           |
| 67       | On-Call Structural Repairs & Miscellaneous Modifications (2479)                                     | 5,425                              | Underway           |
| 68       | On-Call Structural Repairs & Miscellaneous Modifications (2480)                                     | 5,261                              | Underway           |
| 69       | On-Call Structural Repairs & Miscellaneous Modifications (2537)                                     | 3,207                              | Underway           |
| 70       | On-Call Structural Repairs & Miscellaneous Modifications (2538)                                     | 3,207                              | Underway           |
| 71       | Outfall Rehabilitation - Phase 1 (Engineering only) (2489)                                          | 699                                | Underway           |
| 72       | Program Logic Controller (PLC) System Upgrade on BHT & FMT (Engineering only) (2506)                | 142                                | Underway           |
| 73       | Program Management Services for System Preservation (Engineering only) (2235)                       | 5,000                              | Underway           |
| 74       | Radio Rebroadcast and Radiax in BHT & FMT (Engineering only) (2497)                                 | 127                                | Underway           |
| 75       | Replace Police In Car Digital Video System (2456)                                                   | 2,517                              | Underway           |
| 76       | Rubrick Enterprise Backup Software (2520)                                                           | 1,400                              | Underway           |
| 77       | Small Drainage Rehabilitation (2483)                                                                | 8,016                              | Underway           |

# SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

## MARYLAND TRANSPORTATION AUTHORITY - LINE 37 (cont'd)

| ITEM NO. | DESCRIPTION AND IMPROVEMENT TYPE                                                      | FY20 + FY21 PROJECT COST (\$000's) | CONSTRUCTION START |
|----------|---------------------------------------------------------------------------------------|------------------------------------|--------------------|
|          | <b><u>Fiscal Year 2020 and 2021 (cont'd)</u></b>                                      |                                    |                    |
|          | <b><u>MULTI-AREA (cont'd)</u></b>                                                     |                                    |                    |
| 78       | Upgrade Fire Alarm and Security Systems (2358)                                        | 771                                | Underway           |
|          | <b><u>NICE BRIDGE</u></b>                                                             |                                    |                    |
| 79       | Install Communications Tower (2424)                                                   | 1,251                              | Underway           |
| 80       | Rehabilitate Substructure and Superstructure (2395)                                   | 268                                | Underway           |
|          | <b><u>POINT BREEZE</u></b>                                                            |                                    |                    |
| 81       | MDTA Contract Life Cycle Manangement (Software) (2503)                                | 1,250                              | Underway           |
| 82       | MDTA Enterprise Budget Planning and Management System (Software) (2502)               | 750                                | Underway           |
| 83       | On-Call Facility and Building Repairs (2400)                                          | 281                                | Underway           |
|          | <b><u>W. P. LANE BRIDGE</u></b>                                                       |                                    |                    |
| 84       | Construct Project Management Office and Maintenance Equipment Storage Building (2470) | 1,184                              | Underway           |
| 85       | Convert to Cashless Tolling at the Bay Bridge (Engineering only) (2516)               | 2,275                              | Underway           |
| 86       | Miscellaneous Security Improvements (Engineering only) (2488)                         | 179                                | Underway           |
| 87       | On-Call Structural Repairs & Miscellaneous Modifications for Bay Bridge (2501)        | 10,969                             | Underway           |
| 88       | Police and Automotive Maintenance Building Generator Replacement (2481)               | 395                                | Underway           |
| 89       | Queue Detection System (Engineering only) (2504)                                      | 64                                 | Underway           |
| 90       | Rehabilitate Metal Northrop/Grumman Building for Operations (2322)                    | 128                                | Underway           |
| 91       | Replace HVAC at Campus Buildings (2362)                                               | 500                                | Underway           |