2021-2024 TIP Amendment: MDOT MTA Low or No Emission Bus Program
Contents

- Background
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Background

- MTA was awarded funds from the discretionary Low or No Emission Vehicle Program
- MTA will purchase three new electric buses and associated charging infrastructure.
Apportionment

This amendment adds $2.95 million in FTA Section 5339(c) funds along with $2.95 million in state matching funds to the 2021-2024 TIP.
## Anticipated Schedule

<table>
<thead>
<tr>
<th>Timeline Description</th>
<th>Timeline Item Date</th>
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<tr>
<td>Grant Award</td>
<td>June 2020</td>
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<tr>
<td>Procure Buses</td>
<td>August 2021</td>
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<tr>
<td>Charging Infrastructure Design</td>
<td>November 2021</td>
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<tr>
<td>Charging Equipment and Construction/Installation Procurement</td>
<td>February 2021</td>
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<tr>
<td>Construction/Installation of Charging Equipment</td>
<td>December 2022</td>
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<tr>
<td>Substantial Completion, Buses in Service</td>
<td>December 2022</td>
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<tr>
<td>Project Closeout</td>
<td>October 2023</td>
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Benefit

➢ First step in transitioning our fleet to low or zero emission vehicles

➢ This FTA grant funding will provide MDOT MTA the opportunity to purchase, test and evaluate zero-emission technology
For More Information

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2021-2024 TIP Amendment: Phoenix Road Bridge over Gunpowder Falls & NCR Trail

September 2020
Phoenix Road Bridge over Gunpowder Falls & NCR Trail

AMENDMENT PURPOSE

• To add project to the 2021-2024 TIP by shifting construction funding from FY 2020 to FY 2021

• Shifting $12 million in total ($9.6 million federal STBG/$2.4 million local matching)
Phoenix Road Bridge over Gunpowder Falls & NCR Trail
Phoenix Road Bridge over Gunpowder Falls & NCR Trail

REASON FOR MOVING CONSTRUCTION FUNDING

• Delays in right-of-way acquisition
• Project Advertisement was originally scheduled for FY2020, early 2020.
• Project Advertisement will be late 2020, in FY 2021
Phoenix Road Bridge over Gunpowder Falls & NCR Trail

BRIDGE ELEMENTS

• Bridge no BC5701001 (Phoenix Road over Gunpowder Falls & NCR Trail)
  – Poor rated bridge built in 1922; rehabilitated in 1982
  – Biennial bridge inspection in 2010 noted severe corrosion and deterioration to floor beams
  – After inspection, bridge changed to one-way traffic controlled by traffic signals at each end
Phoenix Road Bridge over Gunpowder Falls & NCR Trail

- Advertisement: upon BRTB and federal approval of TIP amendment
- Construction notice to proceed: Spring 2021
- Project completion: 2023
For More Information

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2021-2024 TIP Amendment: Baltimore Citywide Traffic Signals, Intelligent Transportation System and Safety Improvements

September 2020
Baltimore City Signal Timing Optimization

Project 1284
Project Scope

• Signal Timing Optimization at 1,100 Intersections
• Time of Day/ Events
  – AM Peak,
  – Mid-day,
  – PM Peak,
  – Weekends,
  – Overnight, and
  – Special events
    o Orioles baseball,
    o Ravens football
Baltimore Signal Timing Optimization Approach

Shoestring Optimization (405 Signals)
Optimized < 3 Years (292 Signals)

Full Optimization (655 Signals)
Adaptive (4 signals)

not in project
Project Description

• Data collection
• Inventory and Asset Management of Signal Timing Data from TMC & Field
• Develop Citywide Simulation Models to Optimize Signal Timing & Phasing
Project Description (Cont.)

- Implementation of Optimized Signal Timing
- Field Observation, Before & After Timing Implementation
- Fine-Tuning of Optimized Signal Timings
- Performance Monitoring
- Cost-Benefit Analysis
- Staff Training on Controller Firmware, Programming, & Optimization
Project Cost & Schedule

- **Total Cost:** $4.5M
  - Federal Aid: $3.6M
  - Local Funds: $900,000

- **Notice to Proceed:** Expected Early 2021
- **Completion:** Expected End of 2023
For More Information

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