

October 20, 2022

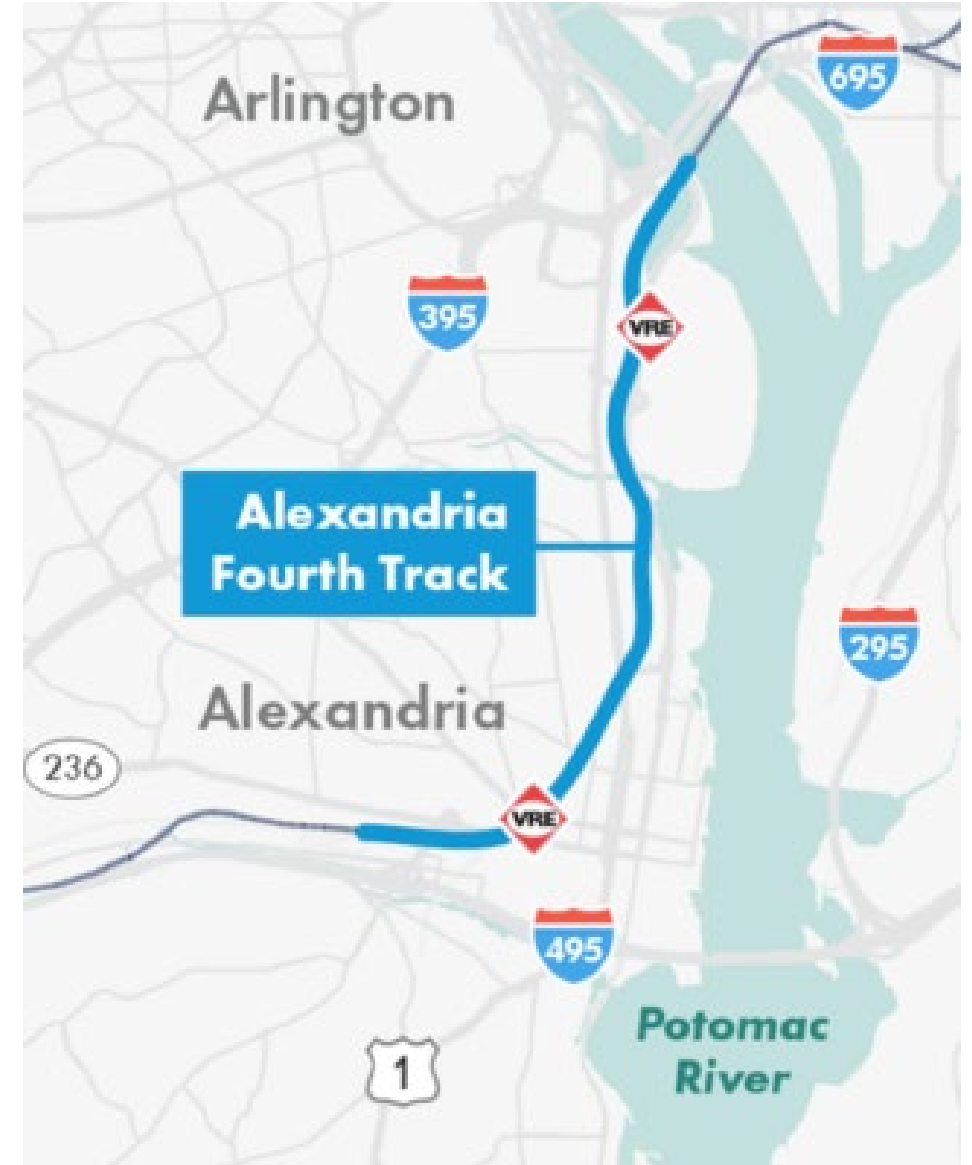
King & Commonwealth Rail Bridges

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Background: Alexandria 4th Track Project

- \$210M Project will design & construct 6 miles of fourth track between the AF (Alexandria) and RO (Rosslyn) Interlockings
 - Will lead to a separation of freight and passenger traffic
- Project received a \$45M FASTLANE grant from USDOT in 2016 – FRA Administered
- When complete CSX will convey an existing track on the west to Virginia
- To be coordinated with the Crystal City Station and Alexandria Station projects constructed by VRE
- Project Status – Currently in Final Design by CSXT
- Both the Alexandria 4th Track Project and the VRE Alexandria Station Project impact the King & Commonwealth Bridges



King Street & Commonwealth Avenue Rail Bridges



King Street Bridge Looking East



- King Street Rail Bridge – built in 1905
- Bridge is almost 120 years old; open-deck structure
- Substandard vertical clearance – posted height 12'-11"
- Constrained horizontal roadway alignment

Commonwealth Avenue Bridge Looking East



- Commonwealth Avenue Rail Bridge – built in 1904
- Bridges is almost 120 years old; open-deck structure
- Limited horizontal clearance; ~ 26' wide

Replacement of King & Commonwealth Bridges

- 4th track Project requires modification of existing CSXT bridges
- CSXT and VPRA feasibility analysis completed Spring 2022
- Benefits:
 - Reduced lifecycle costs
 - Extends bridge life and reduces maintenance needs.
 - Improved safety
 - New design will include safety walkways for emergency egress and train crew usage
 - Reduced risk of bridge strikes at King St. rail bridge
 - Design will achieve VDOT minimum vertical clearance of 14'-6"
 - Reduced rail operational delays
 - Allows opportunities for improved road and pedestrian access



King Street Bridge Looking North from VRE Station

Timing of Alexandria 4th Track and King & Commonwealth

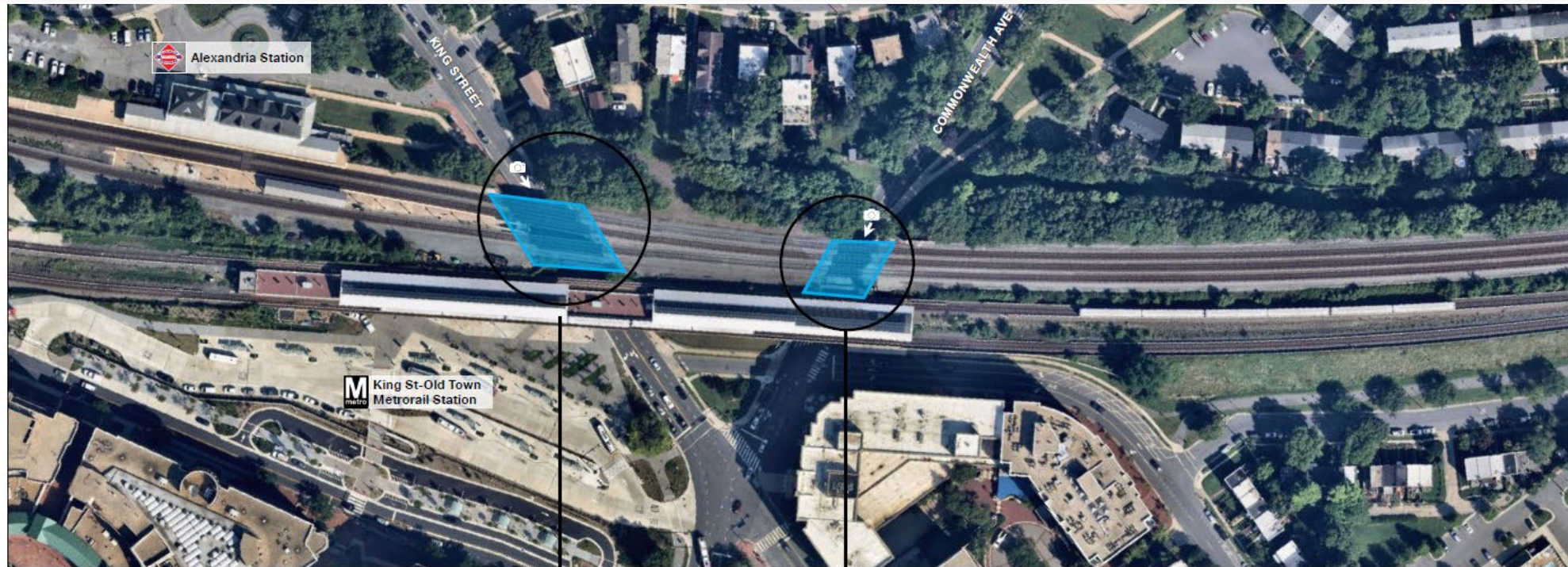
- Bridge repair or bridge replacement will be more costly and more complicated if performed after Alexandria 4th Track Project improvements are completed (passage of time/space constraints/additional service).
- CSX, who is also designing the 4th Track, has begun preliminary engineering on the King & Commonwealth Bridges (\$800,000 cost).



Commonwealth Avenue Bridge Looking North

Board Request and Recommendation

- \$800k allocated under Executive Director's delegated authority for 30% design.
- **Authorization for additional budget of up-to \$2.3m for Final Design - All-in \$3.1m.**
- Design includes obtaining NEPA clearance for structures.



King Street & Commonwealth Avenue

Questions?