



# FALL

### FALL LINE TRAIL – SOUTHERN SECTION Design Build Phase 2 (Segments 1A – 2B) Update

CVTA - Fall Line Trail Working Group

August 2, 2023

#### **Presentation Overview**

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#### **Fall Line Trail Status and Updates**

- DB#1 Northern Section (Segments 7C.2 7C.4)
- DB#3 Chesterfield Section (Segments 2C 3C.1)
- DB#2 Southern Section (Segments 1A 2B)

#### DB#2 Southern Section (Seg. 1A - 2B)

- Summary of Risks and Issues
- Estimate Considerations

#### **Regional Input Requested**

Options for Funding/Termini and Path Forward

#### **Risk Mitigation/Identified Cost Savings**

- Revised Alignment Route DB#2 Southern Section (Seg. 1A.1r 1A.2r)
- Cost Considerations

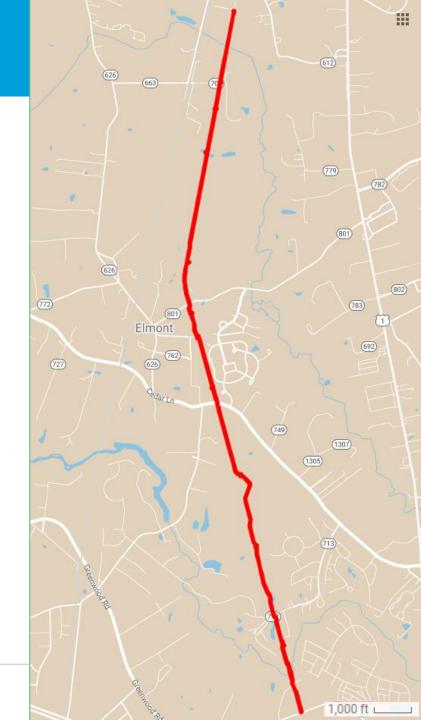
#### **Summary:**

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- Approx. 4.8 miles from south of Winfrey Road to Ashcake Road/Trolley Line Trail
  - Primarily follows Dominion Energy transmission easement, ties into Ashland Trolley Line Trail
  - Bridge crossing of Chickahominy River
  - Includes segments in Henrico, Hanover, and Town of Ashland

#### **Status and Update:**

- Advertised in December 2022
- Awarded in April 2023
- Ground-breaking anticipated Fall 2023



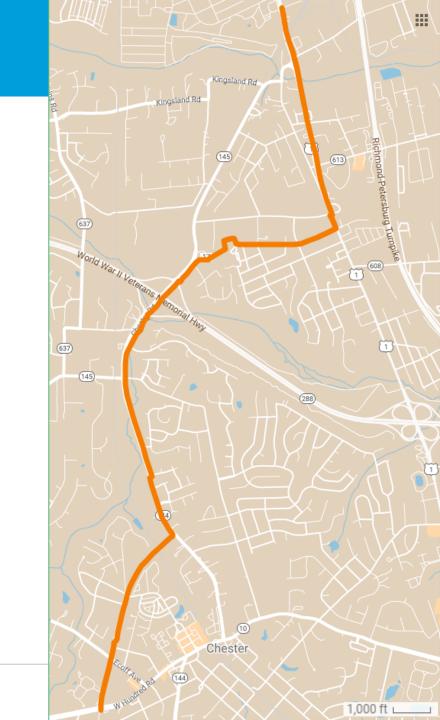
#### Summary:

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- Approx. 5.6 miles from W Hundred Road to Gettings Lane
  - Primarily follows historic Seaboard Air Line Railroad corridor, Chester Road, and Route 1 to north of Chippenham Parkway
  - Includes two (2) crossings of CSX railroad
  - Includes segments in Chesterfield County

#### **Status and Update:**

- Beginning to develop draft Standard Project Agreement (SPA)
- Advertisement and award tentatively planned to follow approximately 9 – 12 months after DB#2
- \$25M allocated, estimate update forthcoming



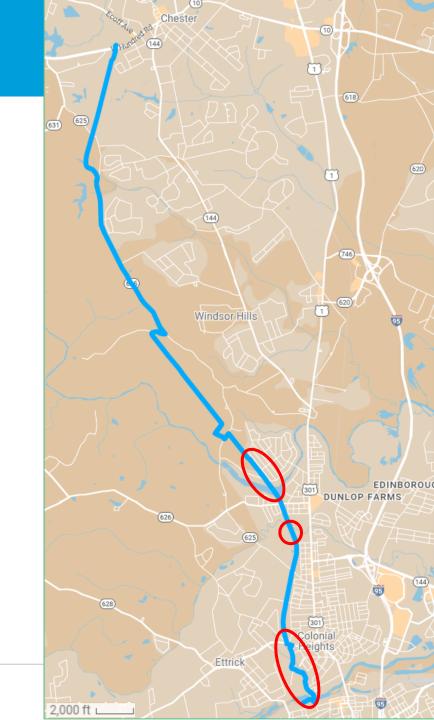
#### Summary:

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- Approx. 9.8 miles from Patton Park to Chester Linear Park
  - Primarily follows historic Seaboard Air Line Railroad corridor
  - Includes segments in Petersburg, Colonial Heights, and Chesterfield

#### **Status and Update:**

- Development of project design and analysis has identified several constraints (VSU, Torch Solar, Environmentally Sensitive Area)
- Risk Assessment Workshop, Team Site Visits, Environmental Surveys have identified several high-risk items and issues



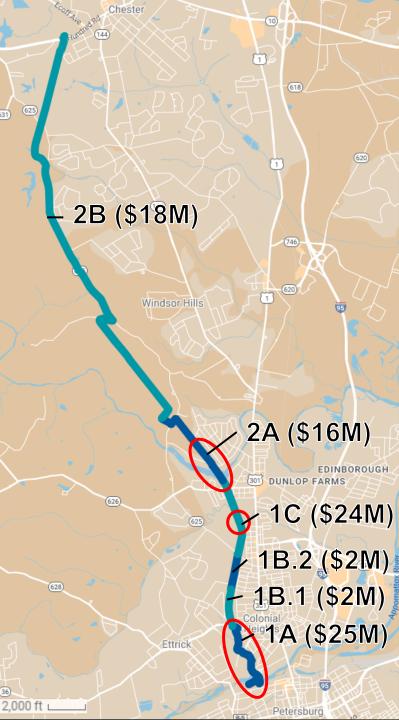
#### 2 DB#2 Southern Section (Seg. 1A – 2B) Summary of Risks and Issues

- Evaluating opportunities to minimize or avoid high risk items and issues:
  - Sensitive environmental constraints
  - Adjacent property owner opposition (Gould Avenue, Biltmore Drive)
  - Substantial structures/bridges at Appomattox River, Fleets Branch, CSX Railroad, and Swift Creek Lake



CSX requires bridge crossing over their facility in Segment 1C (Example of similar gradeseparated trail concept from Gilbert, AZ pictured above)





#### DB#2 Southern Section (Seg. 1A – 2B) Estimate Considerations

#### **Estimate Comparison:**

	Current Allocations	Current Estimate
UPC 121511 (1A, 1C & 2A)	\$28M (\$6.9M for Structures)	\$65M (\$23.6M for Structures)
UPC 118966 (1B.1)	\$1M (\$ for Structures)	\$2M (\$ for Structures)
UPC 121409 (1B.2)	\$2M (\$ for Structures)	\$2M (\$ for Structures)
UPC 121613 (2B)	\$12M (\$ for Structures)	\$18M (\$1.7 for Structures)
TOTAL ESTIMATE	\$43M (\$6.9M for Structures)	\$87M (\$25M for Structures)
ASSUMPTIONS	<ul> <li>Based on planning-level quantities from Ashland to Petersburg Trail Study</li> <li>Eight (8) total structures @ 14,000 SF of bridge</li> <li>Unit prices validated Aug 2022 by VDOT Richmond District</li> </ul>	<ul> <li>Based on quantities developed from design-grade survey</li> <li>Alternate VSU alignment increased earthwork</li> <li>12 total structures @ 62,000 SF of bridge <ul> <li>Four (4) additional bridges at Fleets Branch and Timsbury Creek</li> <li>Longer Appomattox, CSX, and Swift Creek Lake bridge crossings</li> </ul> </li> <li>Unit prices validated June 2023 by VDOT Richmond District</li> <li>Inflation / Escalation per VDOT's Dec 2022 and Jul 2023 Memoranda</li> </ul>

Note: Current project expenditures for the FLT – Southern Section are from pre-scoping funding not \$43M allocations

\*Construction/contract administration contingencies included per VDOT guidelines (Cost Estimating Manual, etc.) - structural costs presented represent raw construction costs

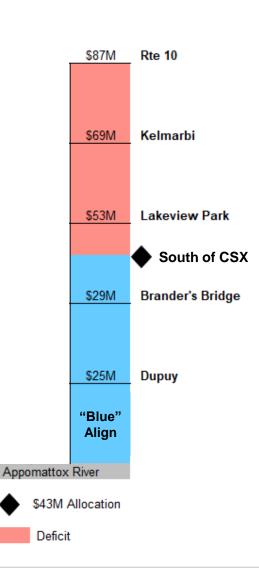
Virginia Department of Transportation

#### **3** Regional Input Requested

#### **Options for Funding/Termini and Path Forward:**

- <u>Option 1</u> Seek additional funds to fully fund the project on current "blue" (Segment 1A – 2B) alignment
  - Current Estimate for DB#2 Southern Section ~ \$87M (\$44M deficit)
  - Current Allocations for DB#2 Southern Section = \$43M
  - Current Allocations for DB#3 Chesterfield Section= \$25M
  - Option 1 will likely necessitate additional time for cultural resources coordination under Section 106 and Section 4(f)
- <u>Option 2</u> Change terminus of DB#2 Southern Section to a length of trail that can be built with current funds available
  - Identify logical terminus and/or fixed length to new trailhead location
  - Option 2 will likely necessitate additional time for cultural resources coordination under Section 106 and Section 4(f)
- <u>Option 3</u> Consider revised "green" (including Segment 1A.1r and 1A.2r) alignment route/cost savings
  - Estimate for DB#2 Southern Section w/revised "green" alignment route ~\$70M (\$25M deficit)
  - Additional funding or revised terminus would be needed for fully funded project





#### Risk Mitigation/Identified Cost Savings Revised Alignment Route - DB#2 Southern Section (Seg. 1A.1r - 1A.2r)

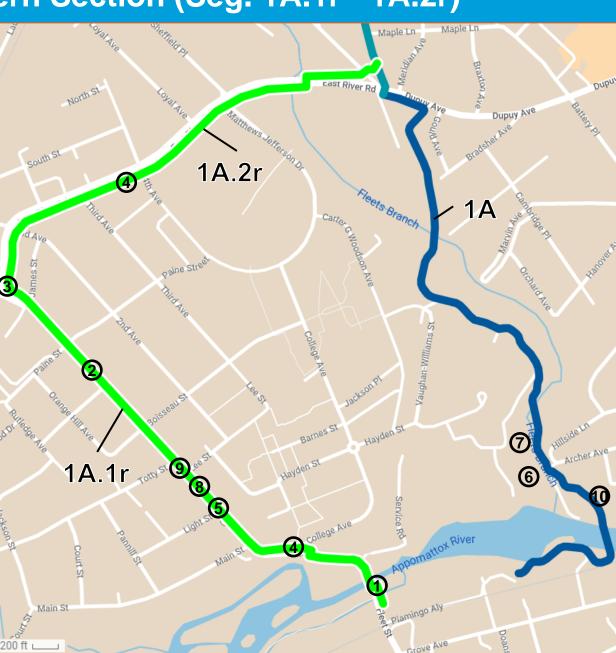
#### Alternate Route Considerations: PROS:

- 1. Cost savings with road diet on Chesterfield Ave and Campbell's Bridge – eliminates 4 bridge structures to construct/maintain
- 2. Consistent with Chesterfield's Bikeways and Trails Plan on or along Chesterfield Ave
- 3. Increases connectivity for potential residential and commercial users along new route (VSU, Chesterfield Ave, Ettrick area, and Petersburg Train Station)
- 4. Utilizes existing 9-10' multi-use trails on Chesterfield Ave and River Road (cost savings)
- 5. Minimizes need for right of way/primarily within existing right of way
- 6. Avoids traversing VSU campus
- 7. Minimizes tree clearing/time of year restrictions/construction time

#### CONS:

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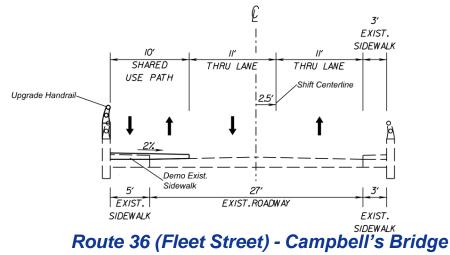
- 8. Removes on-street parking from Chesterfield Ave
- 9. Would require road diet and on-road facility
- 10. Minimize connectivity to Colonial Heights planned Appomattox River Trail extension (#SMART24 - UPC T27849)
- 11. Additional public involvement, especially with citizens along new route will likely be required/may require revised CTB Location Decision



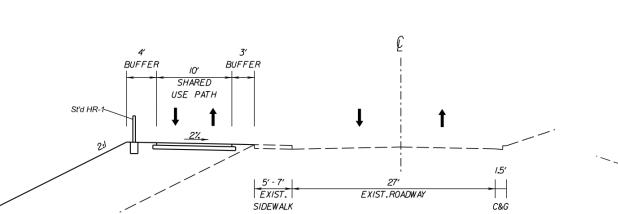


#### **Risk Mitigation/Identified Cost Savings** Revised Alignment Route - DB#2 Southern Section (Seg. 1A.1r - 1A.2r)

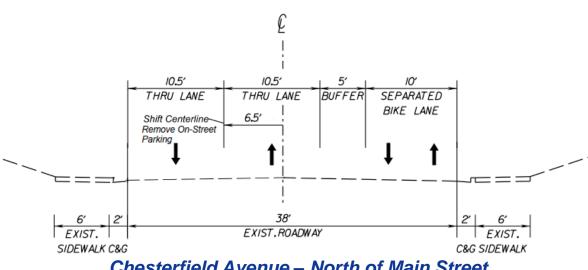
#### **CONCEPTUAL TYPICAL SECTIONS**



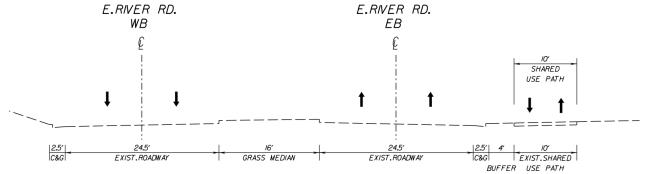
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Chesterfield Avenue – North of Campbell's Bridge



Chesterfield Avenue – North of Main Street



#### Granger St/East River Rd – Existing Multi-Use Path



## Revised Alignment Route Cost Considerations DB#2 Southern Section (Seg. 1A – 2B)

**\$43M** 

**Current Allocations** 

Current Estimate for DB#2 Southern Section (Seg 1A – 2B)	\$87M
Segment 1A (Current Estimate)	\$25M
Projected Funding Deficit	<b>(\$44M)</b>
Estimate for Revised DB#2 Southern Section (Seg 1A.1r – 2B)	\$70M
Segment 1A.1r – 1A.2r (Revised Estimate)	\$8M
Projected Funding Deficit	(\$27M)





#### **4** Regional Input Requested

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