Tier 1 Recommendations

October 20, 2017

Office of INTERMODAL Planning and Investment

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Richmond District

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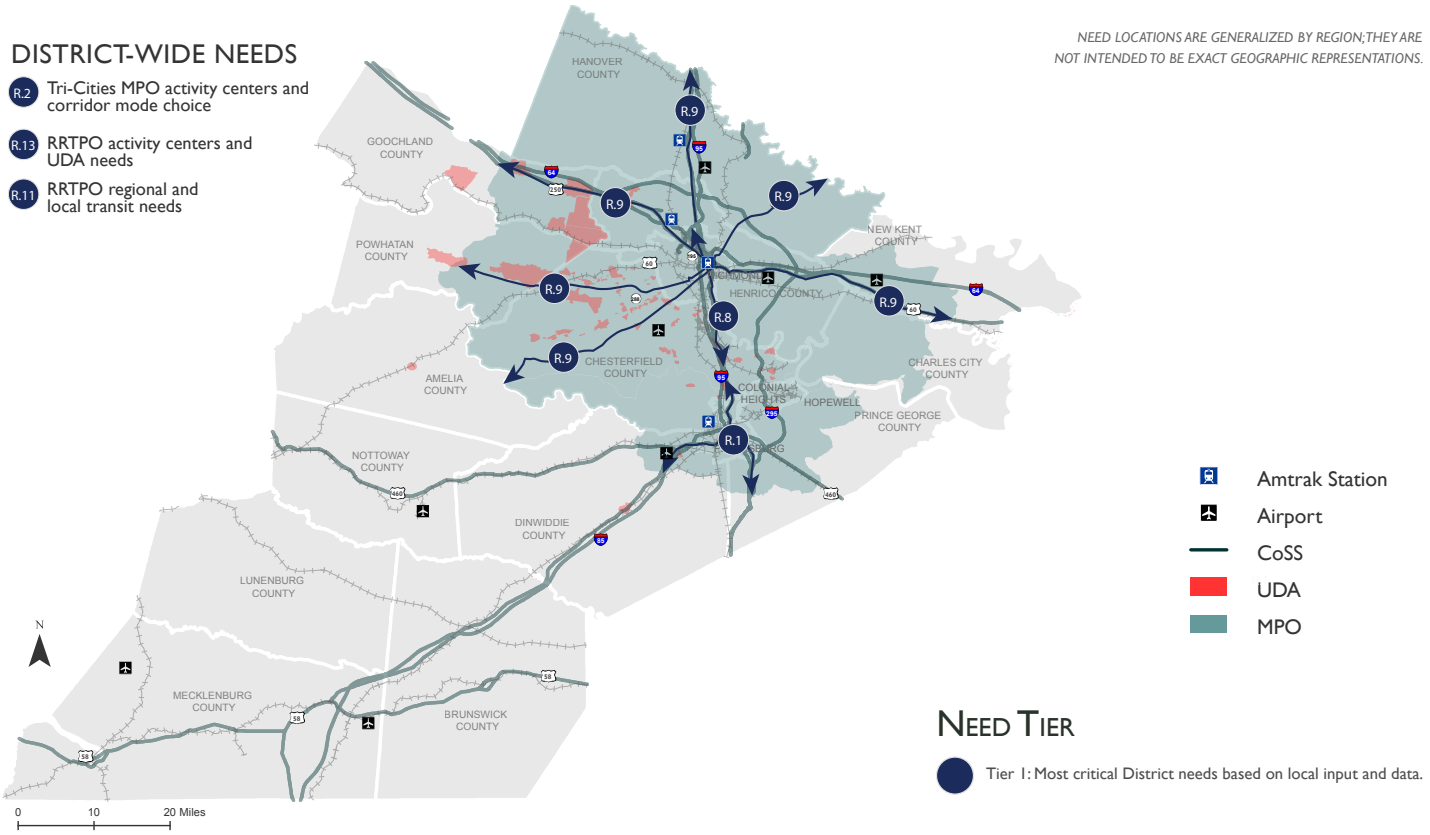
VMTP GENERALIZED MAP OF CONSOLIDATED NEEDS
RICHMOND DISTRICT



Tier 1 District Needs	
Need	**Need Description**
R.1	Within the Tri-Cities MPO, I-95/I-85 and US 1 have reliability, connectivity, and safety needs.
R.2	Within the Tri-Cities MPO, several activity centers (Petersburg, Fort Lee, Hopewell, and Cross Pointe) and north/south corridors in Downtown Petersburg, Southpark Mall, and South Crater need greater mode choice.
R.8	Within the RRTPO, the I-95/I-64 corridors in and south of Richmond have mode choice, accessibility, safety, congestion and network connectivity needs.
R.9	Within the RRTPO, the US 1, US 60, US 360, US 250 and I-64 corridors in Richmond have mode choice and network connectivity needs.
R.11	Within the RRTPO, there are general needs for mode choice and network connectivity for regional and local transit service and passenger rail (Amtrak).
R.13	Within the RRTPO, all activity centers and Urban Development Areas (UDAs) have travel demand management (TDM), network connectivity, and mode choice, access, and circulation needs.

Funded Projects	
Need(s)	**Project Name**
R.1	I-95 Interchange Improvement at Temple Avenue
R.1	Intersection Improvement at US 1 and Boydton Plank Road, at US 1/US 301 and Temple Avenue and Branders Bridge Road
R.1	Right-Turn Lane on US 1 at Route 620, Center Turn Lane on US 1 at Windsor Avenue
R.1	US 1/Woods Edge/Happy Hill Improvements
R.1	Widen I-95 from Petersburg to southern MPO Boundary
R.11	Bus Transfer Station on Broad Street between 7th Street and 8th Street
R.11	Downtown Transit Center Long-Term Preliminary Activities
R.9, R.11	GRTC Pulse BRT Service on Broad Street
R.11	Park-and-Ride Strategy Development
R.11	US 360 West Park-and-Ride (SMART SCALE 2016)
R.13	Interchange Improvements at I-95 and Route 10 (SMART SCALE 2016)
R.13	Interchange Improvements on Route 288 at US 360 (SMART SCALE 2016)
R.13	Interchange Improvements on US 1 at Route 618 and on Route 106 at Laurel Springs Road
R.13	US 60 Corridor East Special Area Plan
R.13	West Creek Parkway Signalization at Patterson Avenue
R.13	Widening of US 60, US 360, Route 711, Route 147, Route 10
R.2	NEPA Study of a Multimodal Facility/High Speed Rail Station in the Tri-Cities MPO
R.2	Park-and-Ride Parking Deck at Petersburg Station
R.8	Auxilliary Lanes on I-95 between Route 288 and Route 10 (SMART SCALE 2016)
R.8	I-195 Westbound High Speed Toll Lanes
R.8	I-64 Widening from I-295 to Exit 205 (SMART SCALE 2015)
R.8	I-895 Toll Collection Upgrade
R.8	I-95 Exit Ramp Improvements at Lewistown Road, Broad Street, Laburnum Avenue/I-195, Route 10, Franklin Street, Belvidere Street, Maury Street, and Hermitage Road
R.8	I-95/I-64 Overlap Short-Term Improvements (SMART SCALE 2016)
R.8, R.9, R.11, R.13	Implement Recommendations of Richmond Transit Network Plan
R.8	ITS Low-Bridge Warning System on I-95/I-64 in Richmond (SMART SCALE 2015)
R.8	Operational Improvements at Bryan Park and I-95/I-295 interchange (STARS)
R.9	Bailey Bridge Connector (SMART SCALE 2016)
R.9, R.13	Implementation of New GRTC Routes

Funded Projects	
Need(s)	**Project Name**
R.9	Interchange Improvements at Route 288 and US 250 and at Route 288 and US 360 (SMART SCALE 2016)
R.9	Interchange Improvements on I-64 at Weigh Stations
R.9	Intersection Improvements (Turn Lanes, Signals) on US 1 at Route 54, Route 620, Route 619, and Vitamin Shoppe Way, and on US 360 at Route 702
R.9, R.11	Main Street Amtrak Station Renovation in Downtown Richmond
R.9, R.11	Richmond Greyhound Bus Terminal Improvements
R.9	Route 1 (Marina to Merriefield) Sidewalk (SMART SCALE 2016)
R.9	Signal Modification on Hull Street/US 360, US 250, US 1 between Richmond and Colonial Heights, and US 60 between West Gateway and Boulders Parkway
R.9	Widening of US 60, US 360, I-64, US 1

Project Recommendations						
ID	Tier 1 Need(s)	Project Name	Jurisdiction	Type	Cost ($M)	Page
RICH1	R.8, R.13	Update Richmond Regional Bicycle and Pedestrian Plan in RRTPO	Multiple	Bike/Ped	$0.50	2
RICH2	R.8, R.11, R.13	Implementation of Recommended Unfunded Bicycle Facilities in City of Richmond	Richmond City	Bike/Ped	$6.58	4
RICH3	R.8, R.9, R.13	Implement Recommendations of Commerce Corridor Study	Multiple	Highway	TBD	6
RICH5	R.1	Study of Potential Roadway Safety Improvements on US 1/US 301 in Colonial Heights	Colonial Heights City	Bus Transit	TBD	8
RICH6	R.2	Development of Regional Bicycle and Pedestrian Plan for Tri-Cities MPO	Multiple	Bike/Ped	$0.50	10
RICH7	R.2	Implementation of New Petersburg Area Transit Services between Fort Lee and Southpark Mall	Multiple	Bus Transit	$0.30	12
RICH8	R.1	I-85 to I-95 Ramps	Petersburg City	Highway	$119.00	14
RICH9	R.1	Interchange and Safety Improvements at I-95/I-85/US 460	Petersburg City	Highway	$53.03	16
RICH10	R.1	I-95 Interchange Improvement at Rives Road	Petersburg City	Highway	$54.98	18
RICH11	R.1	I-95 Interchange Reconfiguration at Southpark	Colonial Heights City	Highway	$11.26	20
RICH12	R.2, R.8, R.11	Passenger Rail Service Enhancements in the I-95 Corridor	Multiple	Rail Transit	$444.69	22
RICH13	R.2, R.13	Updated Transit Development Plan for Tri-Cities MPO	Multiple	Bus Transit	$0.50	24
RICH14	R.8, R.9, R.11	Implementation of BRT Recommendations from the Greater RVA Transit Vision Plan	Multiple	Bus Transit	TBD	26
RICH15	R.8, R.9, R.11	Passenger Rail Service Enhancements in the I-64 Corridor	Multiple	Rail Transit	$132.92	28
RICH17	R.9	US 360 Hull Street Safety and Operations Improvements Phase 2	Richmond City	Highway, Bike/Ped	$48.40	30
RICH19	R.9	Broad Street and Parham Road Pedestrian and Transit Stop Improvements	Henrico County	Bike/ Ped, Bus Transit	$1.87	32

Project Recommendations						
ID	Tier 1 Need(s)	Project Name	Jurisdiction	Type	Cost ($M)	Page
RICH20	R.9, R.13	Interchange Improvements on I-64 at New Kent Highway, Ashland Road, North Gayton Road, and Gaskins Road	Multiple	Highway	TBD	34
RICH22	R.13	Widen and Reconstruct Sadler Road in Innsbrook	Henrico County	Highway	TBD	36
RICH24	R.8	Long Bridge Improvements	Multiple	Rail Transit, Freight Rail	$800.00	38
RICH25	R.8	DC2RVA: Speed and Reliability Improvements	Multiple	Rail Transit, Freight Rail	$5,100	40

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Richmond District

Project Sheets

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH01

Short Description

Update Richmond Regional Bicycle and Pedestrian Plan in RRTPO

District: Richmond

Local Jurisdiction: Multiple

VMTP Need Type (Place X in all applicable boxes)

[ ] Corridor of Statewide Significance [X] Regional Network [X] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Richmond Need I; UDA ID 83

Project Status: New, unique recommendation

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [X] Bike/Pedestrian [ ] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Managemen

Detailed Description of Improvements

Update Richmond Regional Bicycle and Pedestrian Plan, which was last updated in 2004 by the Richmond Regional Transportation Planning Organization (RRTPO), Richmond Regional Planning District Commission, and VDOT.

Potential Funding Sources

(Place X in all applicable boxes)

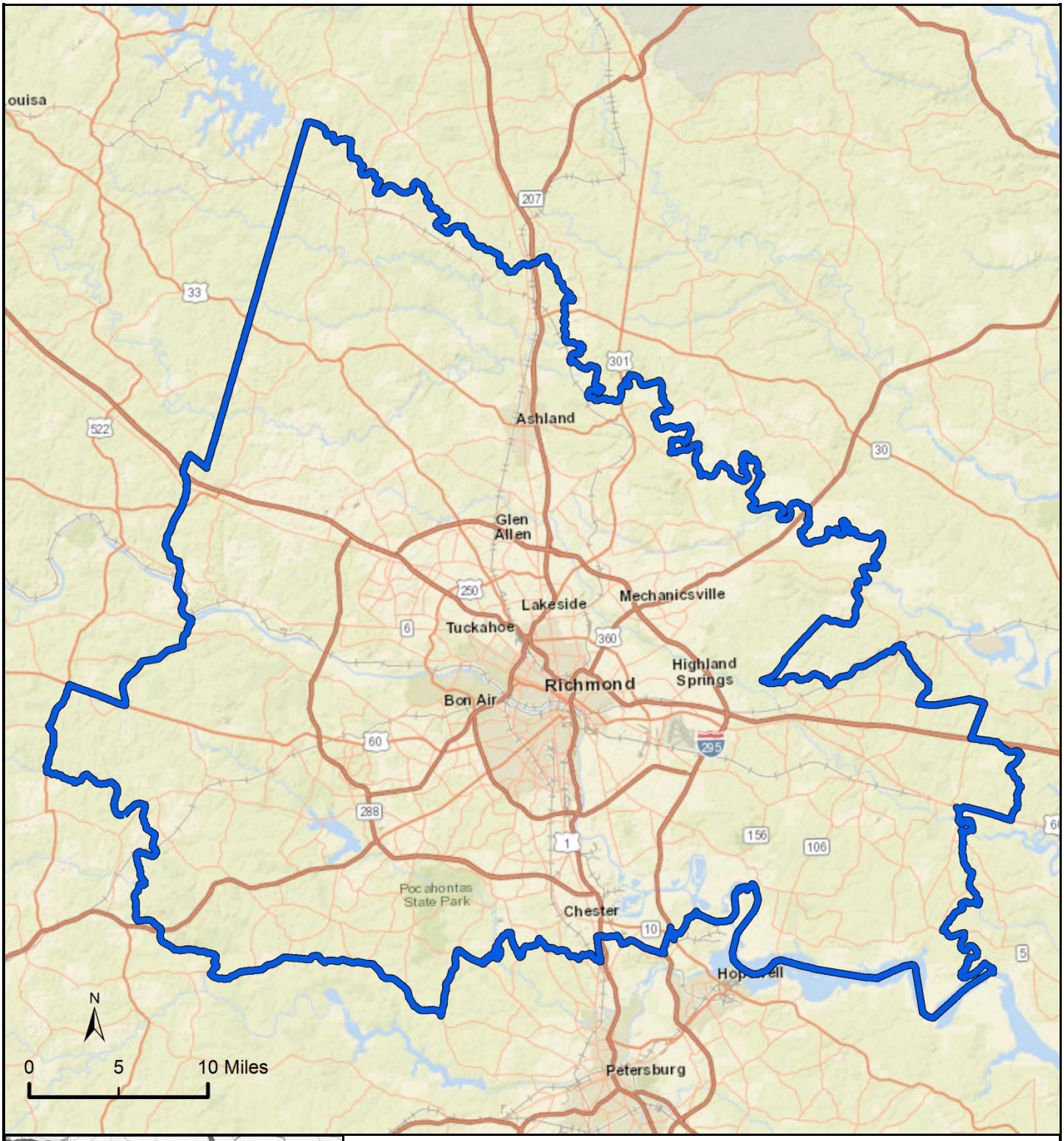
[ ] SMART SCALE [ ] TAP [X] CMAQ [ ] HSIP [ ] Prescoping [ ] Other:

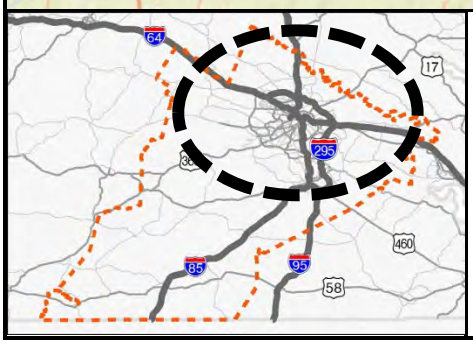
Estimated Project Cost (in $M) $ 0.50 Right of Way Required for Project [ ]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Study/Plan not eligible for SMART SCALE
Congestion Mitigation	Study/Plan not eligible for SMART SCALE
Accessibility	Study/Plan not eligible for SMART SCALE
Land Use	Study/Plan not eligible for SMART SCALE
Environment	Study/Plan not eligible for SMART SCALE
Economic Development	Study/Plan not eligible for SMART SCALE





Project Reference Number: RICH01

Short Project Description: Update Richmond Regional Bicycle and Pedestrian Plan in RRTPO

VDOT District: Richmond

Local Jurisdiction: Multiple

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH02

Short Description

Implementation of Recommended Unfunded Bicycle Facilities in City of Richmond

District: Richmond

Local Jurisdiction: Richmond City

VMTP Need Type (Place X in all applicable boxes)

[ ] Corridor of Statewide Significance [X] Regional Network [X] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Richmond Need I; UDA ID 83

Project Status: Recommendation recently within a Transit Development Plan, VDOT, DRPT, transit provider, MPO , PDC, or other local planning document

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [X] Bike/Pedestrian [ ] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Managemer

Detailed Description of Improvements

Funding and implementation for 54 short- to long-term priority bicycle facilities detailed in the City of Richmond's Bicycle Master Plan (2014). List of projects detailed on page 3-11 of the Bicycle Master Plan.

Once specific locations for improvements have been identified, priority bicycle facilities would be eligible for SmartScale and are reviewed below as a SmartScale-ready project.

Potential Funding Sources

(Place X in all applicable boxes)

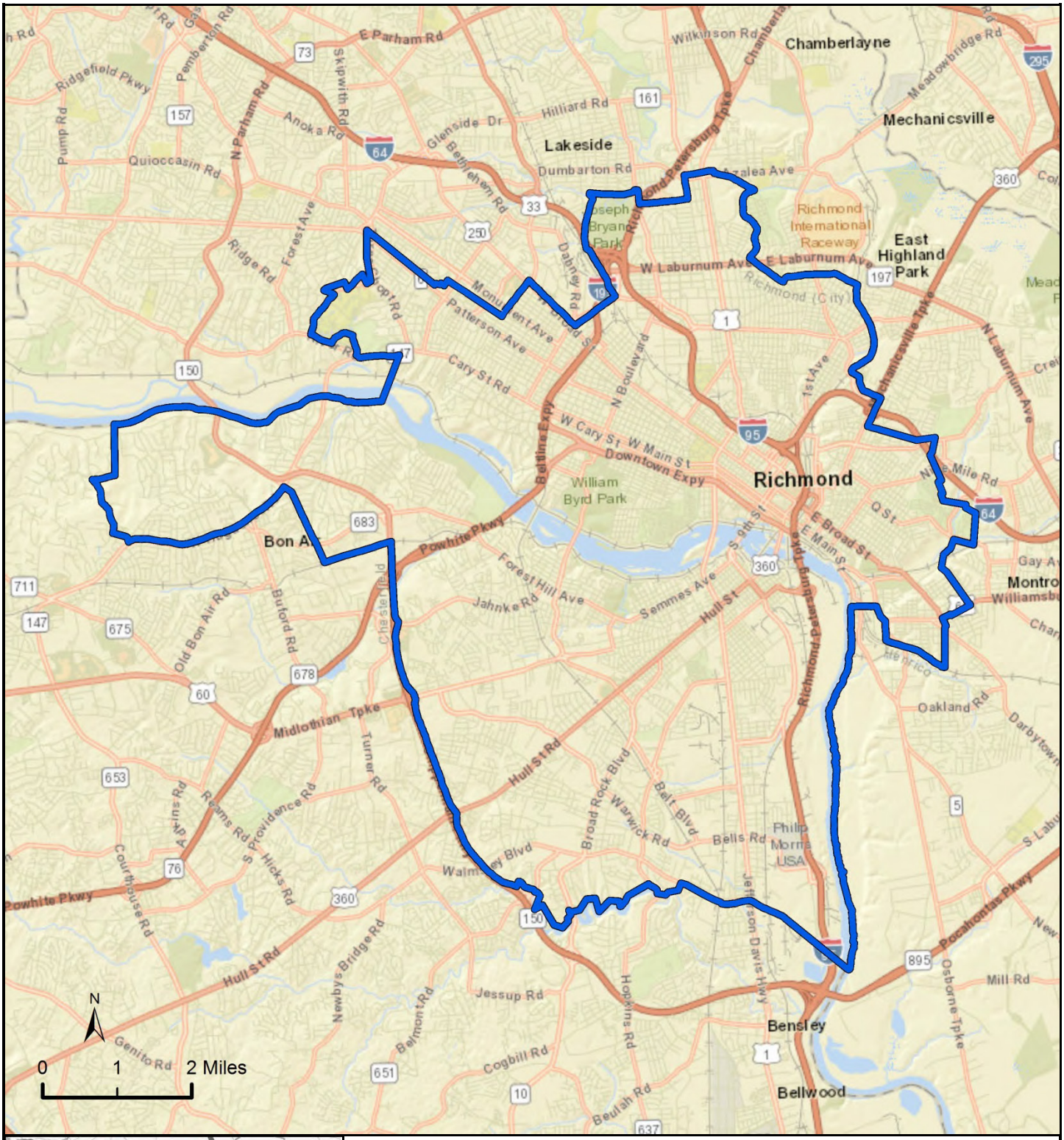
[X] SMART SCALE [X] TAP [X] CMAQ [ ] HSIP [ ] Prescoping [ ] Other:

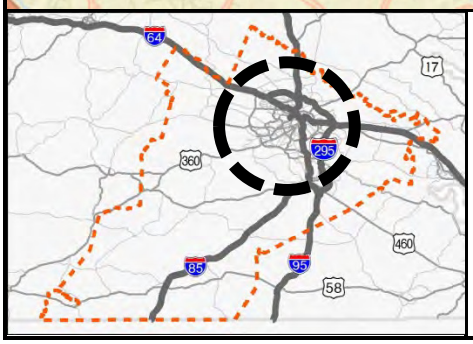
Estimated Project Cost (in $M) $ 6.58 Right of Way Required for Project [X]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Facilities would improve safety for bicyclists.
Congestion Mitigation	Potential to reduce VMT and congestion through provision of alternate mode.
Accessibility	Improves access for bicyclists.
Land Use	Improves bicycle access to commercial and mixed use areas.
Environment	Reduced VMT and congestion could improve air quality.
Economic Development	Supports local and regional plans for economic development.





Project Reference Number: RICH02

Short Project Description: Implementation of Recommended Unfunded Bicycle Facilities in Richmond

VDOT District: Richmond

Local Jurisdiction: Richmond City

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH03

Short Description
Implement Recommendations of Commerce Corridor Study

District
Richmond

Local Jurisdiction
Multiple

VMTP Need Type (Place X in all applicable boxes)

[ ] Corridor of Statewide Significance [X] Regional Network [X] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)
Richmond Needs A, C, E, I, and J; UDA ID 22

Project Status: Recommendation recently within a Transit Development Plan, VDOT, DRPT, transit provider, MPO , PDC, or other local planning document

Recommendation Features

Type (Place X in all applicable boxes)

[X] Highway [ ] Bike/Pedestrian [ ] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Managemer

Detailed Description of Improvements

Program of recommendations from Commerce Corridor Study for improving access to Port Activity Center.

Once specific improvements have been identified, recommendations from the Commerce Corridor Study would be eligible for SmartScale and are reviewed below as a SmartScale-ready project.

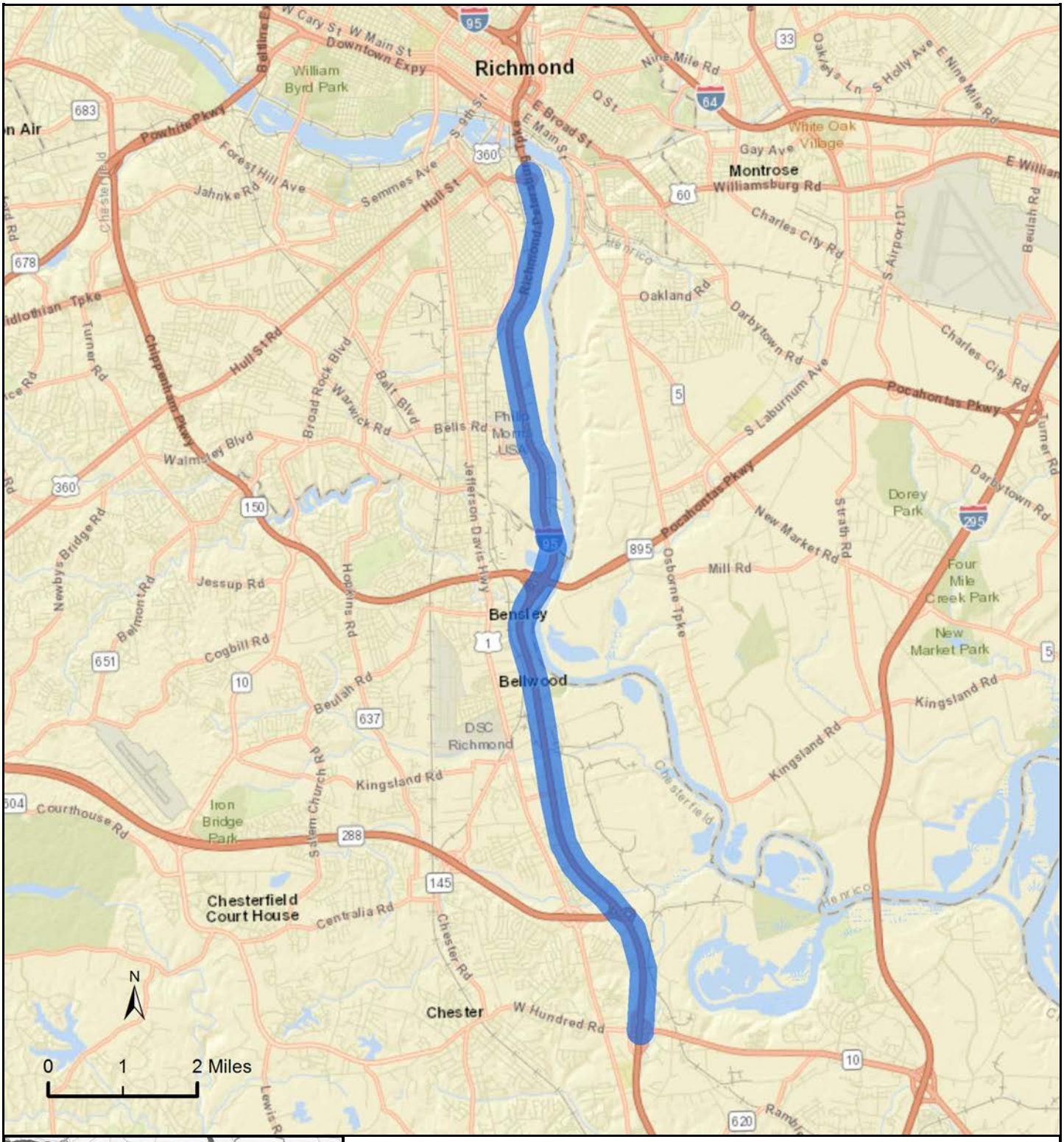
Potential Funding Sources
(Place X in all applicable boxes)

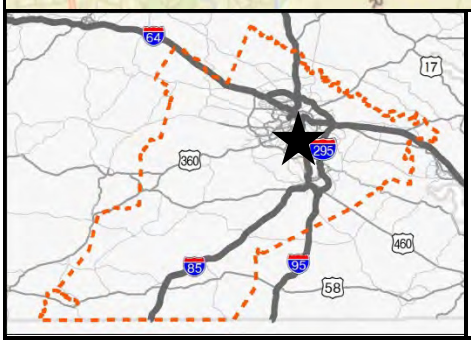
[X] SMART SCALE [ ] TAP [X] CMAQ [ ] HSIP [X] Prescoping [X] Other: FASTLANE, RSTP

Estimated Project Cost (in $M) TBD Right of Way Required for Project [X]

If Applicable: Smart Scale Project Feasibility
Based on Qualitative Review of Project

	Comments
Safety	Could address safety issues related to commercial vehicles in the corridor.
Congestion Mitigation	Improves traffic flows for freight at the Port Activity Center.
Accessibility	Improves access to Port Activity Center.
Land Use	Serves industrial and freight needs of surrounding area.
Environment	Reduced freight congestion could improve air quality.
Economic Development	Supports local and regional economic development plans.





Project Reference Number: RICH03

Short Project Description: Implementation of Recommendations of Commerce Corridor study

VDOT District: Richmond

Local Jurisdiction: Multiple

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH05

Short Description

Study of Potential Roadway Safety Improvements on US 1/US 301 in Colonial Heights

District: Richmond

Local Jurisdiction: Colonial Heights City

VMTP Need Type (Place X in all applicable boxes)

[X] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

CoSS Need K1:C; Richmond Need A

Project Status: New, unique recommendation

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [ ] Bike/Pedestrian [X] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Managemen

Detailed Description of Improvements

3 roadway segments on US 1/US 301 through Colonial Heights are highlighted by the Safety Needs Assessment map. Intersection needs are addressed by existing projects, but segment needs on US 1/US 301 are not.

Recommendations from this study would likely be eligible for SmartScale, but feasibility cannot be determined prior to identification of recommended improvements.

Potential Funding Sources

(Place X in all applicable boxes)

[ ] SMART SCALE [ ] TAP [ ] CMAQ [X] HSIP [ ] Prescoping [ ] Other:

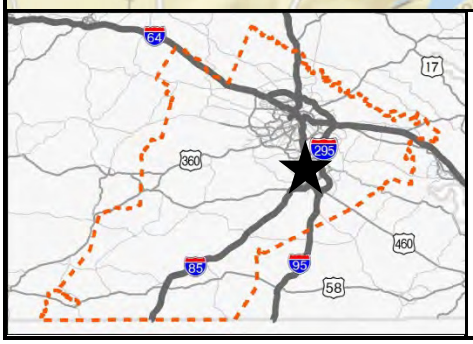
Estimated Project Cost (in $M): TBD

Right of Way Required for Project: [ ]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Study/plan not eligible for SmartScale.
Congestion Mitigation	Study/plan not eligible for SmartScale.
Accessibility	Study/plan not eligible for SmartScale.
Land Use	Study/plan not eligible for SmartScale.
Environment	Study/plan not eligible for SmartScale.
Economic Development	Study/plan not eligible for SmartScale.



Project Reference Number: RICH05

Short Project Description: Study of Potential Roadway Safety Improvements on US 1/US 301 in Colonial Heights

VDOT District: Richmond

Local Jurisdiction: Colonial Heights City

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH06

Short Description

Development of Regional Bicycle and Pedestrian Plan for Tri-Cities MPO

District: Richmond

Local Jurisdiction: Multiple

VMTP Need Type (Place X in all applicable boxes)

[ ] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Tri-Cities Needs E, F, H, I, J

Project Status: New, unique recommendation

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [X] Bike/Pedestrian [ ] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Managemen

Detailed Description of Improvements

The Tri-Cities MPO currently does not have a regional bicycle and pedestrian plan. This project would develop a regional plan for the area.

Potential Funding Sources

(Place X in all applicable boxes)

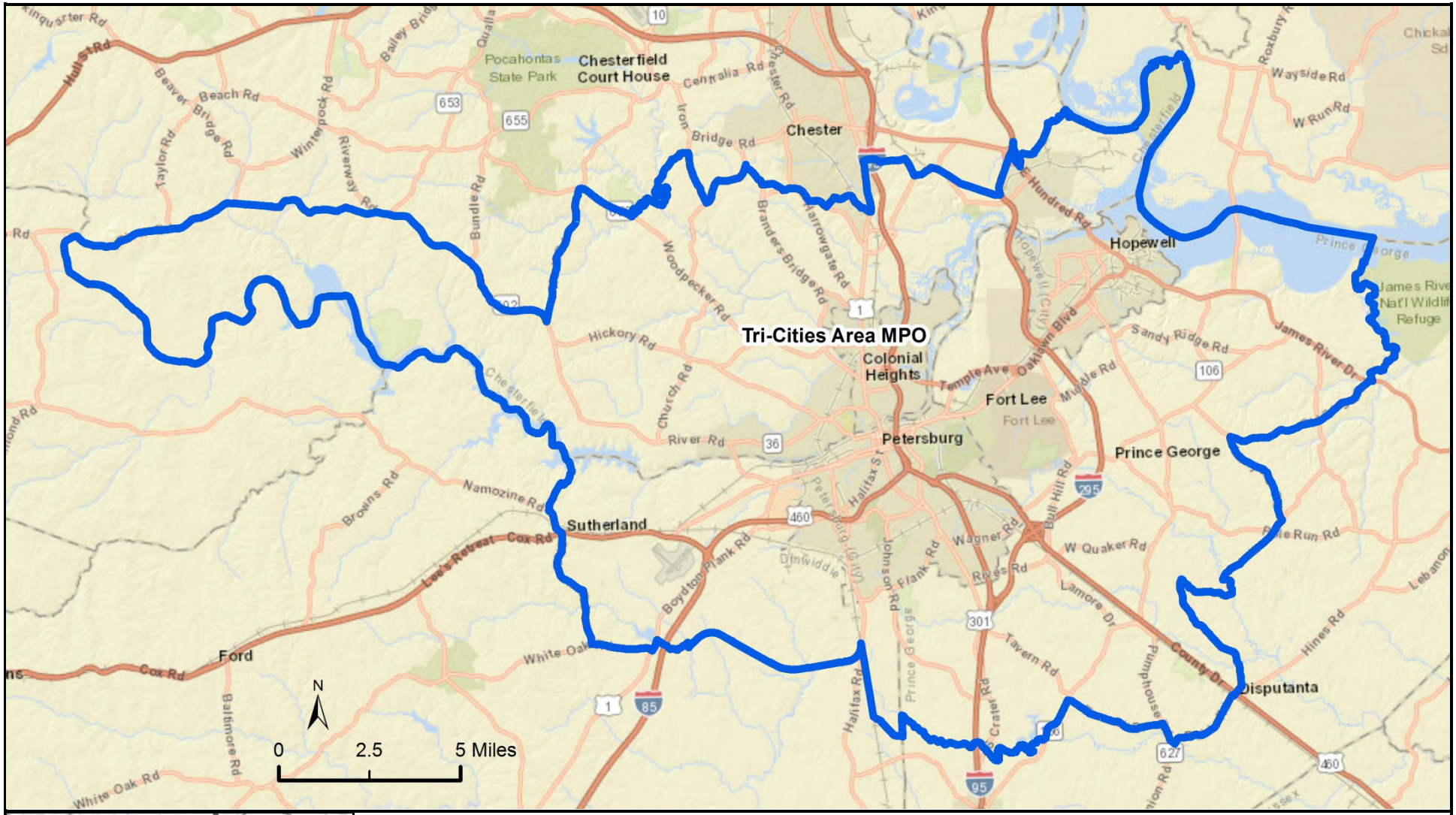
[ ] SMART SCALE [ ] TAP [ ] CMAQ [ ] HSIP [ ] Prescoping [X] Other: Jurisdiction

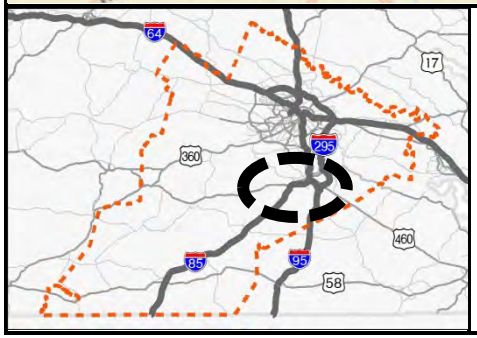
Estimated Project Cost (in $M) $ 0.50 Right of Way Required for Project [ ]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Study/Plan not eligible for SMART SCALE
Congestion Mitigation	Study/Plan not eligible for SMART SCALE
Accessibility	Study/Plan not eligible for SMART SCALE
Land Use	Study/Plan not eligible for SMART SCALE
Environment	Study/Plan not eligible for SMART SCALE
Economic Development	Study/Plan not eligible for SMART SCALE





Project Reference Number: RICH06

Short Project Description: Development of Regional Bicycle and Pedestrian Plan for Tri-Cities MPO

VDOT District: Richmond

Local Jurisdiction: Multiple

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH07

Short Description

Implementation of New Petersburg Area Transit Services between Fort Lee and Southpark Mall

District: Richmond

Local Jurisdiction: Multiple

VMTP Need Type (Place X in all applicable boxes)

[ ] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Tri-Cities Need E

Project Status: Recommendation recently within a Transit Development Plan, VDOT, DRPT, transit provider, MPO , PDC, or other local planning document

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [ ] Bike/Pedestrian [X] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Managemer

Detailed Description of Improvements

Provides bus service between Southpark Mall and Fort Lee to address impacts of growth at Fort Lee. Described in Tri-Cities Area Transit Development Plan (2010). Estimated project cost includes capital investment in new transit vehicle required to provide service.

Capital requirements for providing this new service would be eligible for SmartScale and are reviewed below as a SmartScale-ready project.

Potential Funding Sources

(Place X in all applicable boxes)

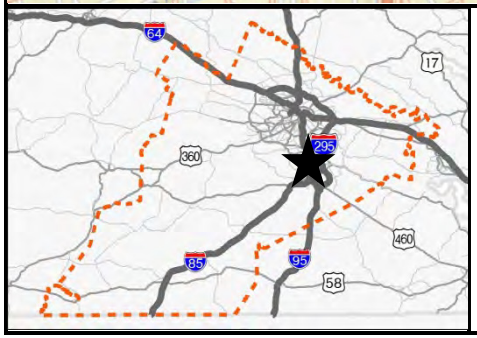
[X] SMART SCALE [X] TAP [X] CMAQ [ ] HSIP [ ] Prescoping [ ] Other:

Estimated Project Cost (in $M) $ 0.30 Right of Way Required for Project [ ]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Potential to reduce VMT in area with high crash rates.
Congestion Mitigation	Could reduce VMT and congestion through provision of alternate mode.
Accessibility	Improves access to Southpark Mall from the Fort Lee area.
Land Use	Improves access to commercial center.
Environment	Reduced VMT and congestion could improve air quality.
Economic Development	Supports local and regional development plans.



Project Reference Number: RICH07

Short Project Description: Implementation of New Petersburg Area Transit Services between Fort Lee and Southpark Mall

VDOT District: Richmond

Local Jurisdiction: Multiple

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH08

Short Description
I-85 to I-95 Ramps

District
Richmond

Local Jurisdiction
Petersburg City

VMTP Need Type (Place X in all applicable boxes)

[ ] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)
Tri-Cities Need A

Project Status: Prior Smart Scale Round 1 application (not funded)

Recommendation Features

Type (Place X in all applicable boxes)

[X] Highway [ ] Bike/Pedestrian [ ] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Management

Detailed Description of Improvements

Restructuring of I-95/I-85 interchange and realignment of off-ramp to Graham Road and South Crater Road. Reconstruction of the interchange would follow the recommendations of the I-95/I-85 Interchange Feasibility Study (2015).

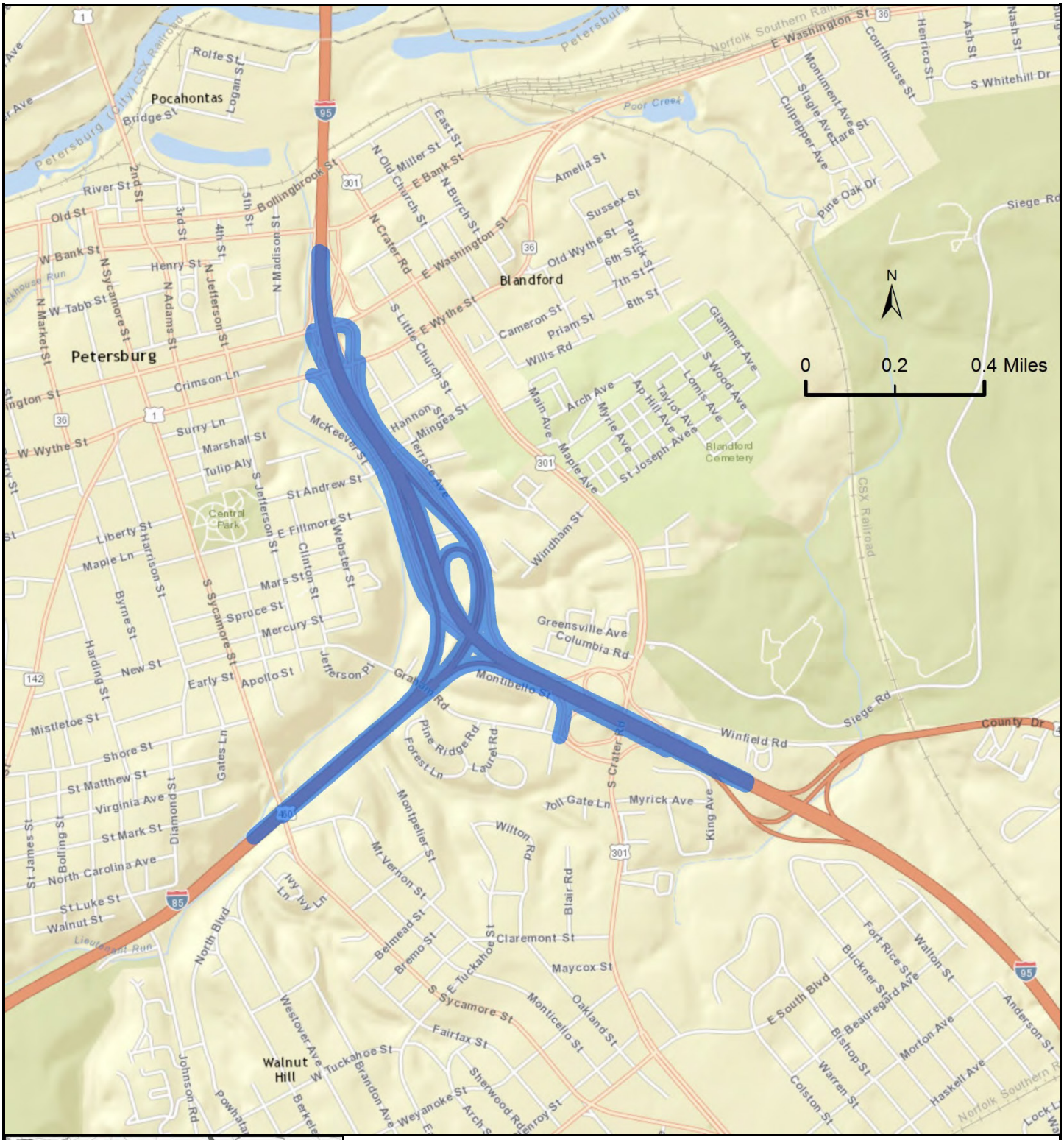
Potential Funding Sources
(Place X in all applicable boxes)

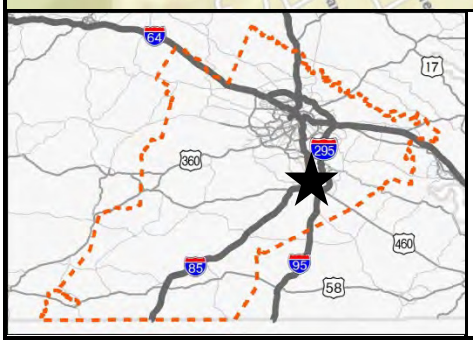
[X] SMART SCALE [ ] TAP [ ] CMAQ [X] HSIP [ ] Prescoping [ ] Other:

Estimated Project Cost (in $M) $ 119.00 Right of Way Required for Project [X]

If Applicable: Smart Scale Project Feasibility
Based on Qualitative Review of Project

	Comments
Safety	I-95 NB to I-85 SB Flyover Ramp would address high crash frequency road segment.
Congestion Mitigation	I-85 NB to I-95 SB Ramp would address a road segment with high levels of delay.
Accessibility	Not anticipated to result in significant improvements to accessibility.
Land Use	Not anticipated to result in significant improvements to land use.
Environment	Not anticipated to result in significant improvements to environmental conditions.
Economic Development	Moderate improvements to economic development expected from project.





Project Reference Number: RICH08

Short Project Description: I-85 to I-95 Ramps

VDOT District: Richmond

Local Jurisdiction: Petersburg City

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH09

Short Description

Interchange and Safety Improvements at I-95/I-85/US 460

District: Richmond

Local Jurisdiction: Petersburg City

VMTP Need Type (Place X in all applicable boxes)

[X] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Tri-Cities Need A, B; CoSS Needs E4:A, K1:A, K1:B

Project Status: Partially funded in 2017-2022 SYIP (e.g. PE or ROW only, but not complete construction)

Recommendation Features

Type (Place X in all applicable boxes)

[X] Highway [ ] Bike/Pedestrian [ ] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Management

Detailed Description of Improvements

Roadway improvements focused on reliability and safety at the I-95/I-85/US 460 interchange, with the inclusion of ramp realignments and implementation of intelligent transportation system (ITS) technologies, as detailed in the Tri-Cities Area 2035 Transportation Plan (2012). Currently funded for PE only.

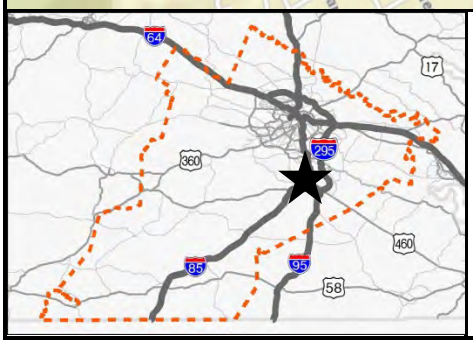
Potential Funding Sources
(Place X in all applicable boxes)

[X] SMART SCALE [ ] TAP [ ] CMAQ [X] HSIP [ ] Prescoping [ ] Other:

Estimated Project Cost (in $M) $ 53.03 Right of Way Required for Project [ ]

If Applicable: Smart Scale Project Feasibility
Based on Qualitative Review of Project

	Comments
Safety	I-95 NB to I-85 SB Flyover Ramp would address high crash frequency road segment.
Congestion Mitigation	I-85 NB to I-95 SB Ramp would address a road segment with high levels of delay.
Accessibility	Not anticipated to result in significant improvements to accessibility.
Land Use	Not anticipated to result in significant improvements to land use.
Environment	Not anticipated to result in significant improvements to environmental conditions.
Economic Development	Moderate improvements to economic development expected from project.



Project Reference Number: RICH09

Short Project Description: Interchange and Safety Improvements at I-95/I-85/ US 460

VDOT District: Richmond

Local Jurisdiction: Petersburg City

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH10

Short Description
I-95 Interchange Improvement at Rives Road

District
Richmond

Local Jurisdiction
Petersburg City

VMTP Need Type (Place X in all applicable boxes)

[ ] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)
Tri-Cities Need A

Project Status: Partially funded in 2017-2022 SYIP (e.g. PE or ROW only, but not complete construction)

Recommendation Features

Type (Place X in all applicable boxes)

[X] Highway [ ] Bike/Pedestrian [ ] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Management

Detailed Description of Improvements

Turn lanes were added to Rives Road at the I-95 interchange as part of the widening of Rives Road from 2 to 4 lanes. Issues relating to sight-distance from I-95 exit ramps were identified by the I-95/I-85 Interchange Roadway Safety Assessment (2013). This project would reconstruct the ramps at Rives Road as a cloverleaf to address safety and reliability issues caused by higher traffic volumes and limited sight distances. Currently funded for PE only.

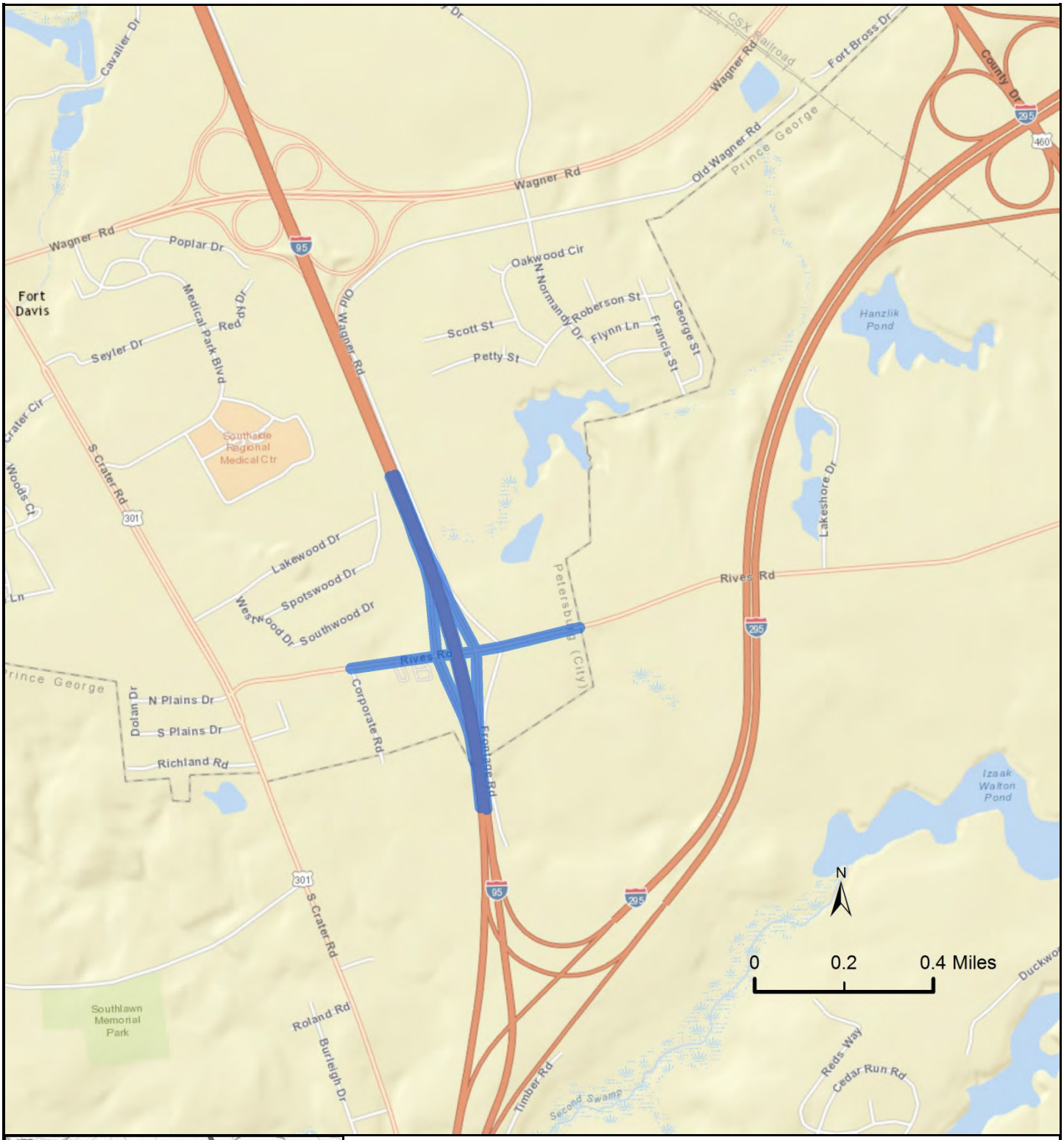
Potential Funding Sources
(Place X in all applicable boxes)

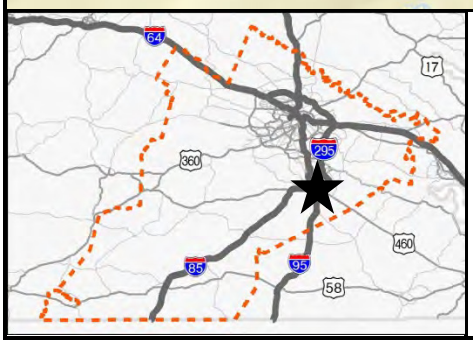
[X] SMART SCALE [ ] TAP [ ] CMAQ [X] HSIP [ ] Prescoping [ ] Other:

Estimated Project Cost (in $M) $ 54.98 Right of Way Required for Project [ ]

If Applicable: Smart Scale Project Feasibility
Based on Qualitative Review of Project

	Comments
Safety	Realigned ramps would improve sight distances.
Congestion Mitigation	Cloverlead design could promote more reliable flows between I-95 and Rives Road.
Accessibility	Not anticipated to result in significant improvements to accessibility.
Land Use	Not anticipated to result in significant improvements to land use.
Environment	Not anticipated to result in significant improvements to environmental conditions.
Economic Development	Not anticipated to result in significant improvements to economic development.





Project Reference Number: RICH10

Short Project Description: I-95 Interchange Improvement at Rives Road

VDOT District: Richmond

Local Jurisdiction: Multiple

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH11

Short Description
I-95 Interchange Reconfiguration at Southpark

District
Richmond

Local Jurisdiction
Colonial Heights City

VMTP Need Type (Place X in all applicable boxes)

[ ] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)
Tri-Cities Need A

Project Status: Partially funded in 2017-2022 SYIP (e.g. PE or ROW only, but not complete construction)

Recommendation Features

Type (Place X in all applicable boxes)

[X] Highway [ ] Bike/Pedestrian [ ] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Management

Detailed Description of Improvements

Issues relating to queuing on from Southpark exit ramps backing up onto I-95 were identified by the I-95/I-85 Interchange Roadway Safety Assessment (2013). This project would reconfigure the existing ramps to address congestion issues caused by higher traffic volumes. Currently funded for PE only.

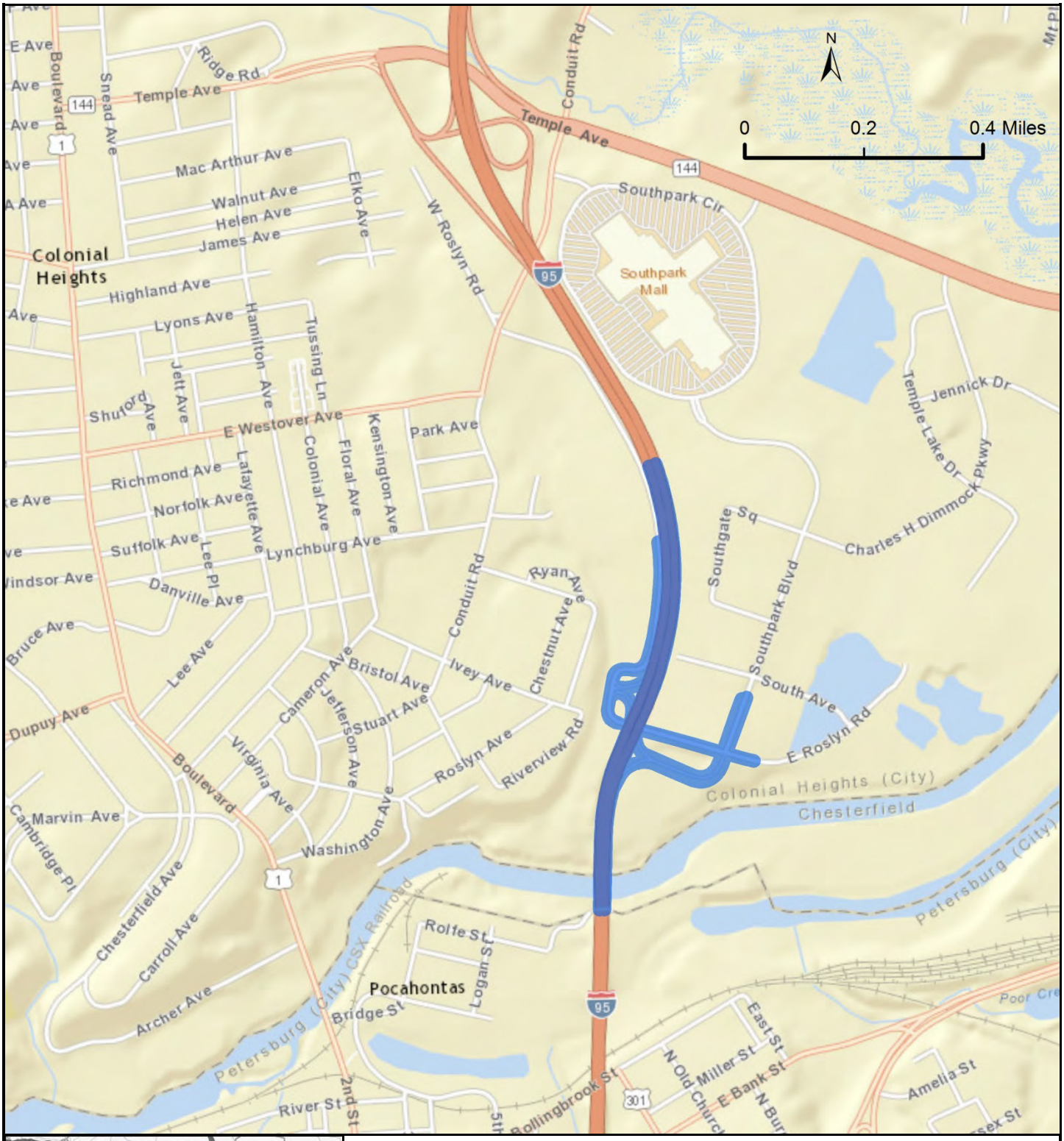
Potential Funding Sources
(Place X in all applicable boxes)

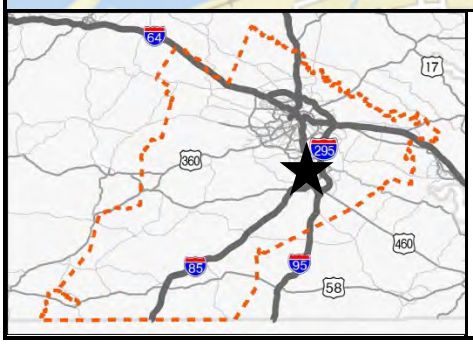
[X] SMART SCALE [ ] TAP [ ] CMAQ [X] HSIP [ ] Prescoping [ ] Other:

Estimated Project Cost (in $M) $ 11.26 Right of Way Required for Project [ ]

If Applicable: Smart Scale Project Feasibility
Based on Qualitative Review of Project

	Comments
Safety	Additional ramp capacity would relieve back-ups and rear-end collisions on I-95.
Congestion Mitigation	Additional ramp capacity would relieve congestion on I-95.
Accessibility	Not anticipated to result in significant improvements to accessibility.
Land Use	Not anticipated to result in significant improvements to land use.
Environment	Not anticipated to result in significant improvements to environmental conditions.
Economic Development	Easier access to Southpark Mall could generate additional economic activity





Project Reference Number: RICH11

Short Project Description: I-95 Interchange Reconfiguration at Southpark

VDOT District: Richmond

Local Jurisdiction: Colonial Heights City

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details | **Project Reference Number** RICH12

Short Description
Passenger Rail Service Enhancements in the I-95 Corridor

District: Richmond | Local Jurisdiction: Multiple

VMTP Need Type (Place X in all applicable boxes)

[X] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)
Tri-Cities Needs A, C, F; CoSS Needs C4:G, K2:D, K1:E

Project Status: Recommendation recently within a Transit Development Plan, VDOT, DRPT, transit provider, MPO , PDC, or other local planning document

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [ ] Bike/Pedestrian [ ] Bus Transit [X] Rail Transit [ ] Freight Rail [ ] Travel Demand Management

Detailed Description of Improvements

Project would provide additional rail service along the I-95 corridor. Service enhancements would include more frequent train service and capacity improvements, such as yard rehabilitation and connection tracks between Norfolk Southern and CSX lines. Improvements included in the estimated project cost below address capital and operations improvements of Phase 1 of a three-phase strategy to be implemented through FY 2022. Additional project details can be found in the Virginia Statewide Rail Plan (2013).

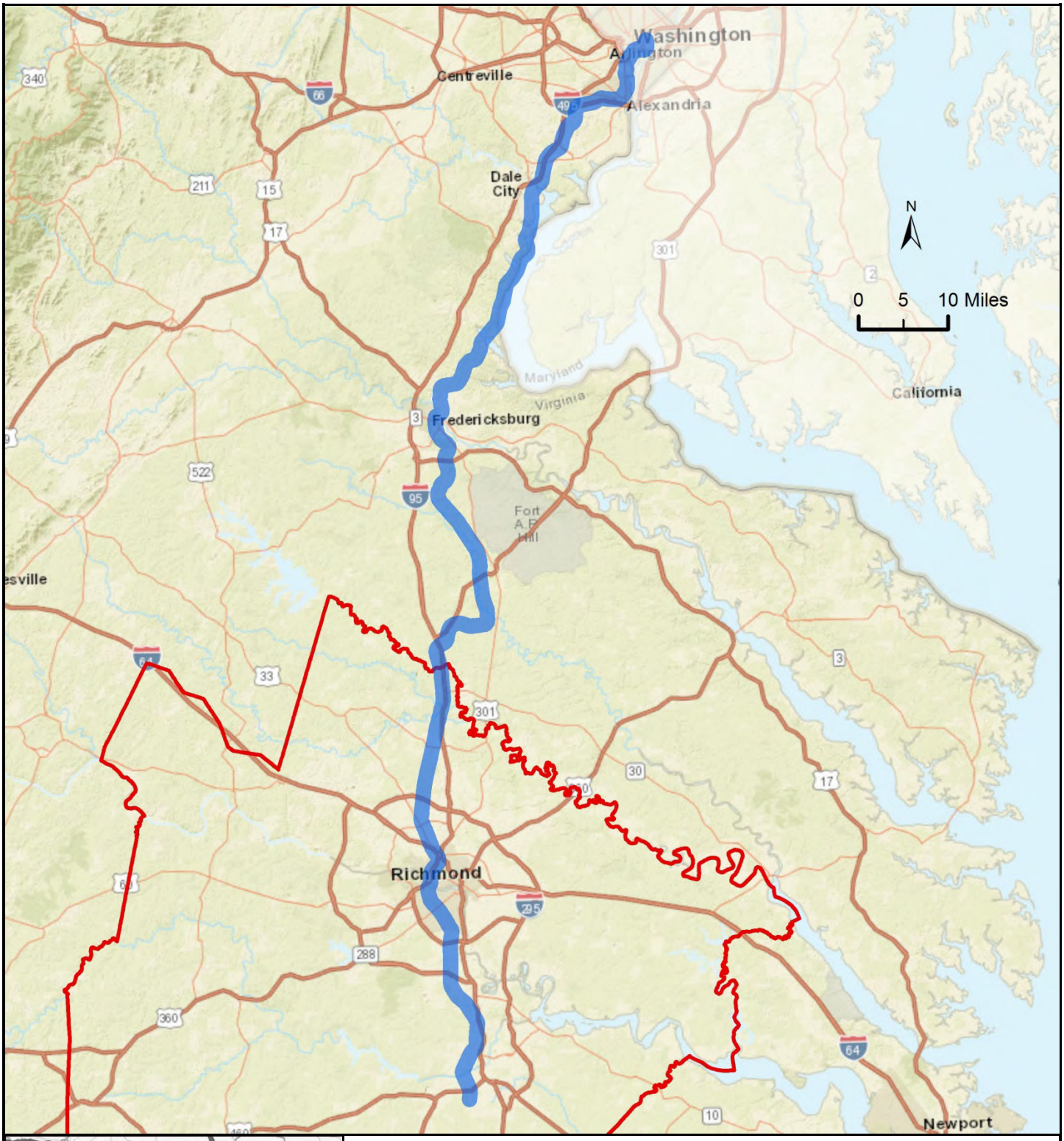
Potential Funding Sources
(Place X in all applicable boxes)

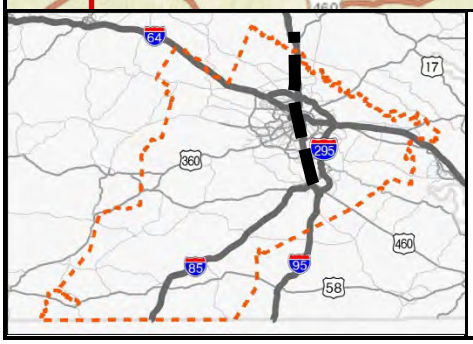
[X] SMART SCALE [X] TAP [X] CMAQ [ ] HSIP [ ] Prescoping [ ] Other:

Estimated Project Cost (in $M) $ 444.69 Right of Way Required for Project [ ]

If Applicable: Smart Scale Project Feasibility
Based on Qualitative Review of Project

	Comments
Safety	Not anticipated to result in significant improvements to safety.
Congestion Mitigation	Additional rail capacity could relieve both highway and rail congestion in the corridor.
Accessibility	May increase rail ridership due to proximity to population and employment centers.
Land Use	Connects major population and employment centers.
Environment	Potential highway congestion relief would have a positive impact on air quality.
Economic Development	Connects population and employment centers that contribute to Virginia's economy.





Project Reference Number: RICH12

Short Project Description: Passenger Rail Service Enhancements in the I-95 Corridor

VDOT District: Richmond

Local Jurisdiction: Multiple

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH13

Short Description

Updated Transit Development Plan for Tri-Cities MPO

District: Richmond

Local Jurisdiction: Multiple

VMTP Need Type (Place X in all applicable boxes)

[ ] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Tri-Cities Needs E, F, H, J

Project Status: New, unique recommendation

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [ ] Bike/Pedestrian [X] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Managemen

Detailed Description of Improvements

The current Transit Development Plan for the Tri-Cities area was completed in 2010. In light of recent transit planning efforts in the neighboring Richmond area (including the Greater RVA Transit Vision Plan and the Richmond Transit Network Plan), the Transit Development Plan for the Tri-Cities area should be updated to address present and future transit needs and opportunities by re-evaluating existing transit service and developing strategies for the implementation of new transit services.

Potential Funding Sources

(Place X in all applicable boxes)

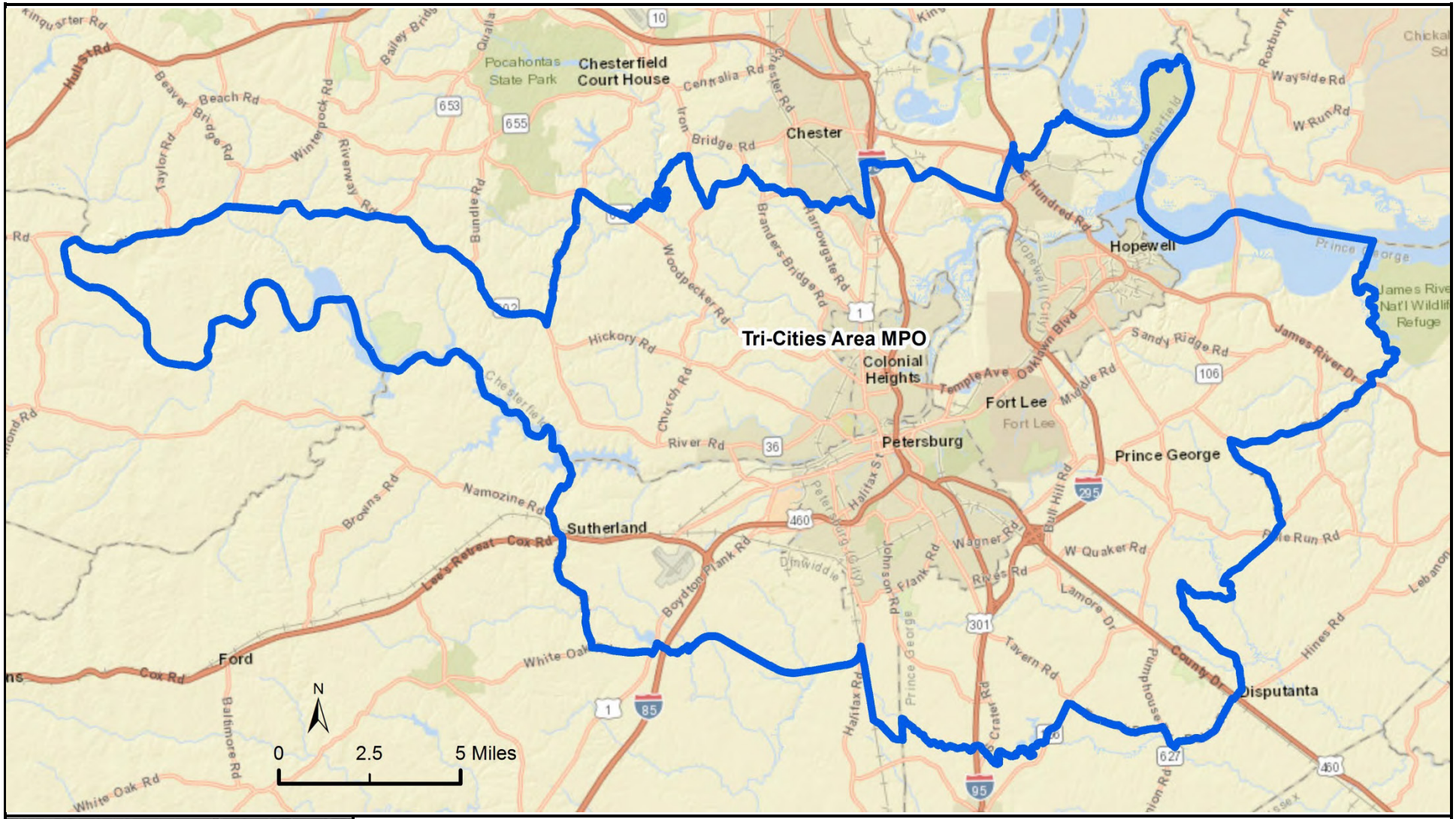
[ ] SMART SCALE [ ] TAP [X] CMAQ [ ] HSIP [ ] Prescoping [ ] Other:

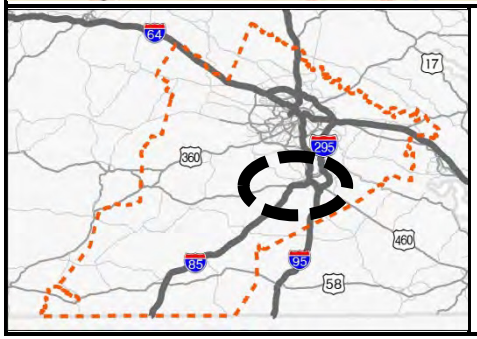
Estimated Project Cost (in $M) $ 0.50 Right of Way Required for Project [ ]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Study/Plan not eligible for SMART SCALE
Congestion Mitigation	Study/Plan not eligible for SMART SCALE
Accessibility	Study/Plan not eligible for SMART SCALE
Land Use	Study/Plan not eligible for SMART SCALE
Environment	Study/Plan not eligible for SMART SCALE
Economic Development	Study/Plan not eligible for SMART SCALE





Project Reference Number: RICH13

Short Project Description: Updated Transit Development Plan for Tri-Cities MPO

VDOT District: Richmond

Local Jurisdiction: Multiple

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH14

Short Description

Implementation of BRT Recommendations from the Greater RVA Transit Vision Plan

District: Richmond

Local Jurisdiction: Multiple

VMTP Need Type (Place X in all applicable boxes)

[ ] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Richmond Needs A, B, E, J

Project Status: Recommendation recently within a Transit Development Plan, VDOT, DRPT, transit provider, MPO , PDC, or other local planning document

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [ ] Bike/Pedestrian [X] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Managemen

Detailed Description of Improvements

The Greater RVA Transit Vision Plan proposes the expansion of high-frequency bus rapid transit (BRT) services throughout the Richmond area by 2040, but acknowledges that many idenitified corridors do not currently have ridership or land uses to support BRT service. In an effort to meet the goals of the Greater RVA Transit Vision Plan, BRT could be implemented in the corridors best suited for service, such as the Pulse BRT extension on Broad Street to Short Pump or the West End South corridor. Other lower-density corridors, such as Mechanicsville Turnpike or Airport Connector corridors, will need changes to land use and development to eventually be prepared for implementation of BRT services.

Potential Funding Sources

(Place X in all applicable boxes)

[X] SMART SCALE [X] TAP [X] CMAQ [ ] HSIP [ ] Prescoping [ ] Other:

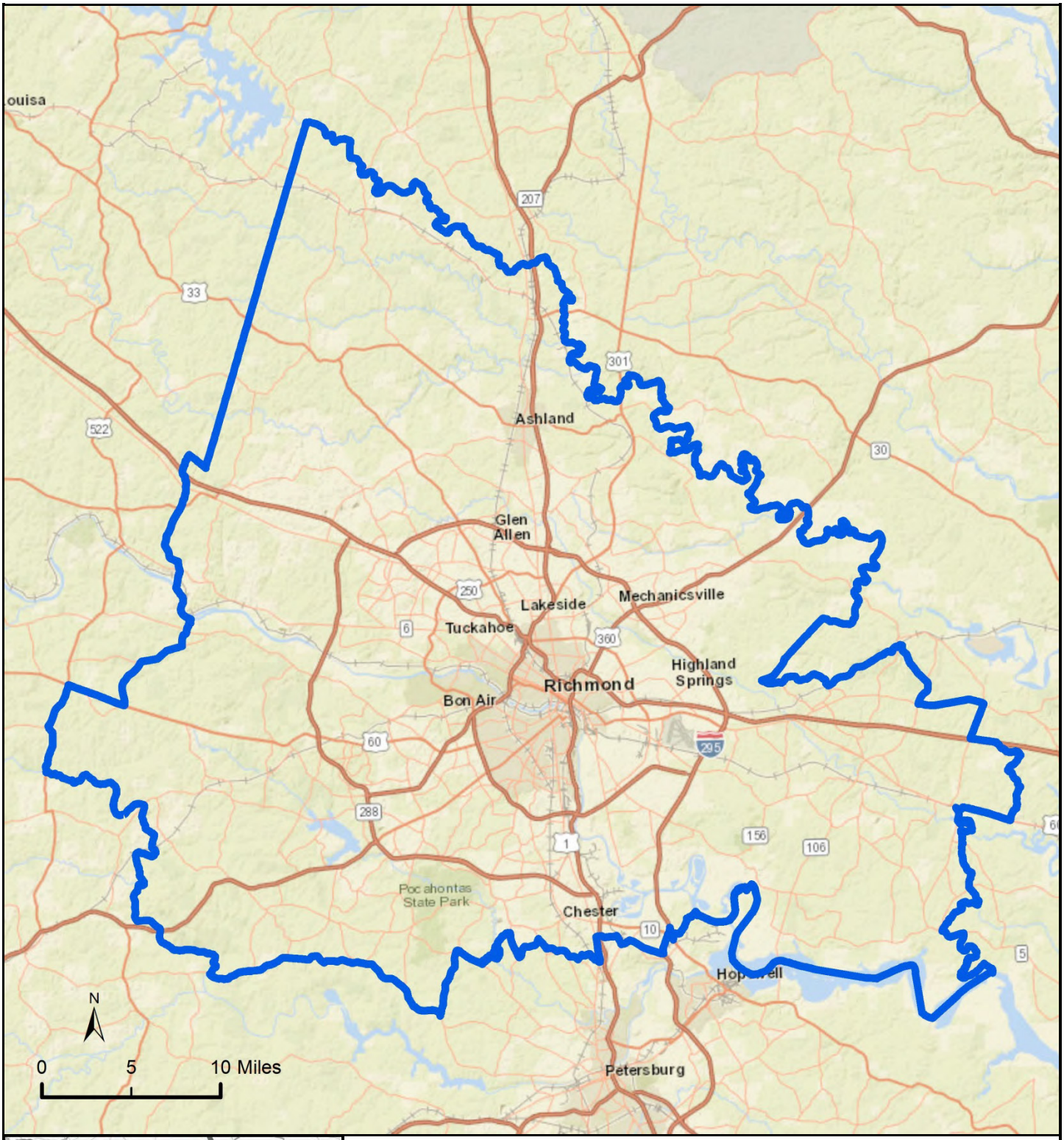
Estimated Project Cost (in $M): TBD

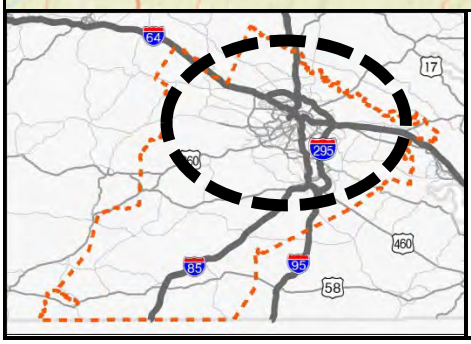
Right of Way Required for Project: [ ]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Could reduce VMT in areas with high crash rates.
Congestion Mitigation	Could reduce VMT and congestion through provision of alternate mode.
Accessibility	Improves access throughout area for transit riders.
Land Use	Improves access to commercial and mixed use developments.
Environment	Reduced VMT and congestion could improve air quality.
Economic Development	Supports local and regional development plans.





Project Reference Number: RICH14

Short Project Description: Implementation of BRT Recommendations from the Greater RVA Transit Vision Plan

VDOT District: Richmond

Local Jurisdiction: Multiple

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH15

Short Description

Passenger Rail Service Enhancements in the I-64 Corridor

District: Richmond

Local Jurisdiction: Multiple

VMTP Need Type (Place X in all applicable boxes)

[X] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Richmond Needs A, H; CoSS Needs C4:C, K2:S

Project Status: Recommendation recently within a Transit Development Plan, VDOT, DRPT, transit provider, MPO , PDC, or other local planning document

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [ ] Bike/Pedestrian [ ] Bus Transit [X] Rail Transit [ ] Freight Rail [ ] Travel Demand Management

Detailed Description of Improvements

Project would provide additional rail service along the I-64 corridor. Service enhancements would include more frequent train service and capacity improvements, such as new Amtrak stations and additional main line track. Improvements included in the estimated project cost address capital and operations improvements in Phase 1 of a two-phase strategy. Additional project details can be found in the Virginia Statewide Rail Plan (2013).

Potential Funding Sources

(Place X in all applicable boxes)

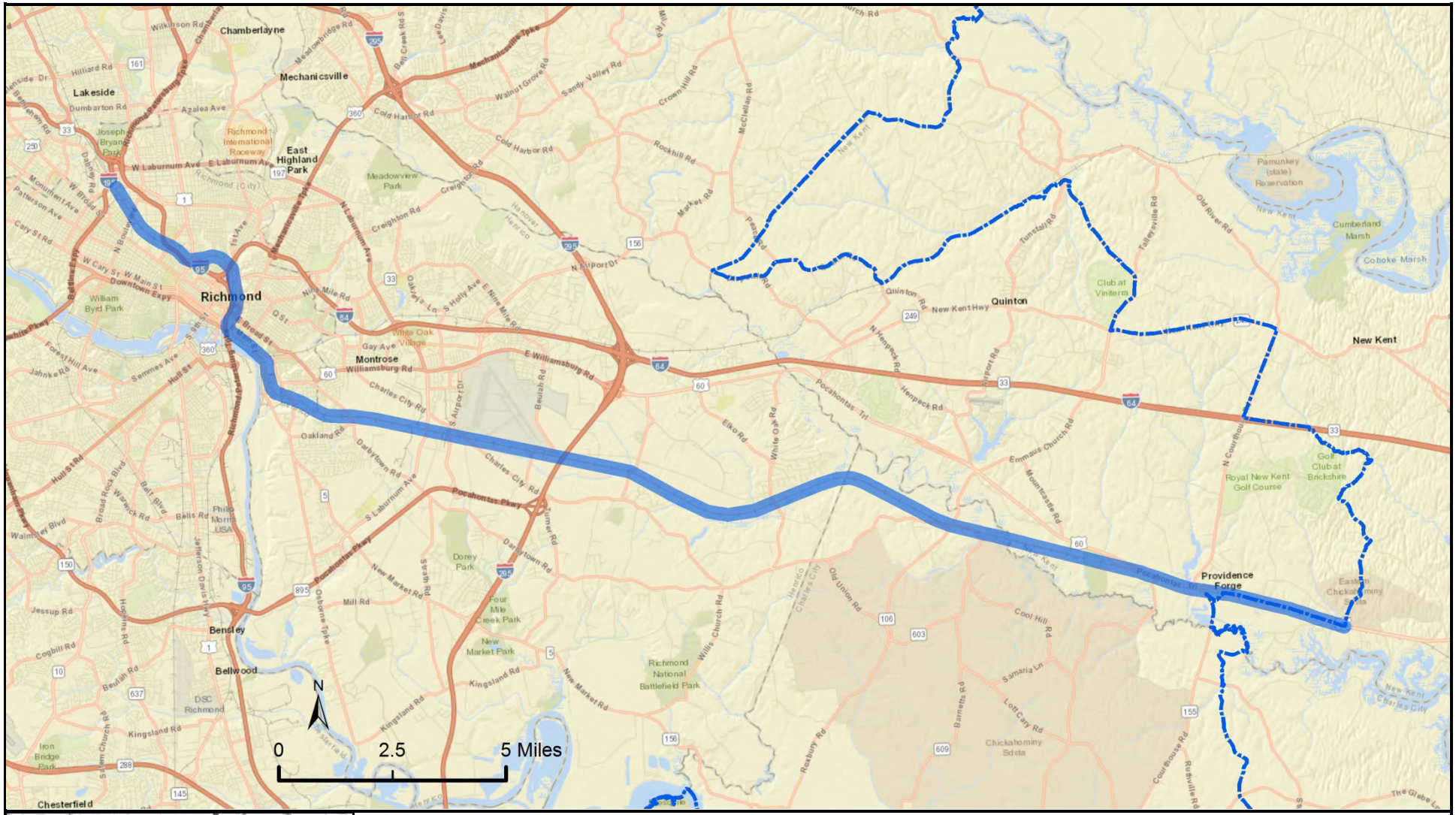
[X] SMART SCALE [X] TAP [X] CMAQ [ ] HSIP [ ] Prescoping [ ] Other:

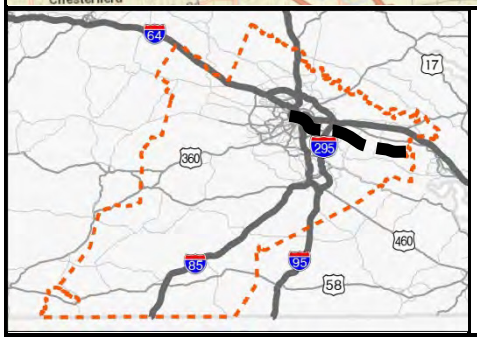
Estimated Project Cost (in $M) $ 132.92 Right of Way Required for Project [ ]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Not anticipated to result in significant improvements to safety.
Congestion Mitigation	Additional rail capacity could relieve both highway and rail congestion in the corridor.
Accessibility	May increase rail ridership due to proximity to population and employment centers.
Land Use	Connects major population and employment centers.
Environment	Potential highway congestion relief would have a positive impact on air quality.
Economic Development	Connects population and employment centers that contribute to Virginia's economy.





Project Reference Number: RICH15

Short Project Description: Passenger Rail Service Enhancements in the I-64 Corridor

VDOT District: Richmond

Local Jurisdiction: Multiple

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH17

Short Description

US 360 Hull Street Safety and Operations Improvements Phase 2

District: Richmond

Local Jurisdiction: Richmond City

VMTP Need Type (Place X in all applicable boxes)

[X] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Richmond Need E; CoSS Need K2:I

Project Status: Current Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

[X] Highway [X] Bike/Pedestrian [ ] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Management

Detailed Description of Improvements

Currently under review as part of three Smart Scale applications, the US 360 Hull Street Safety and Operations Improvements Phase 2 would provide pedestrian facilities (shared use paths, sidewalks, and crosswalks), dedicated turn lanes, access management, and signal coordination along US 360, in addition to the existing improvements on US 360 currently being implemented between 9th Street and Mayo Bridge.

Potential Funding Sources

(Place X in all applicable boxes)

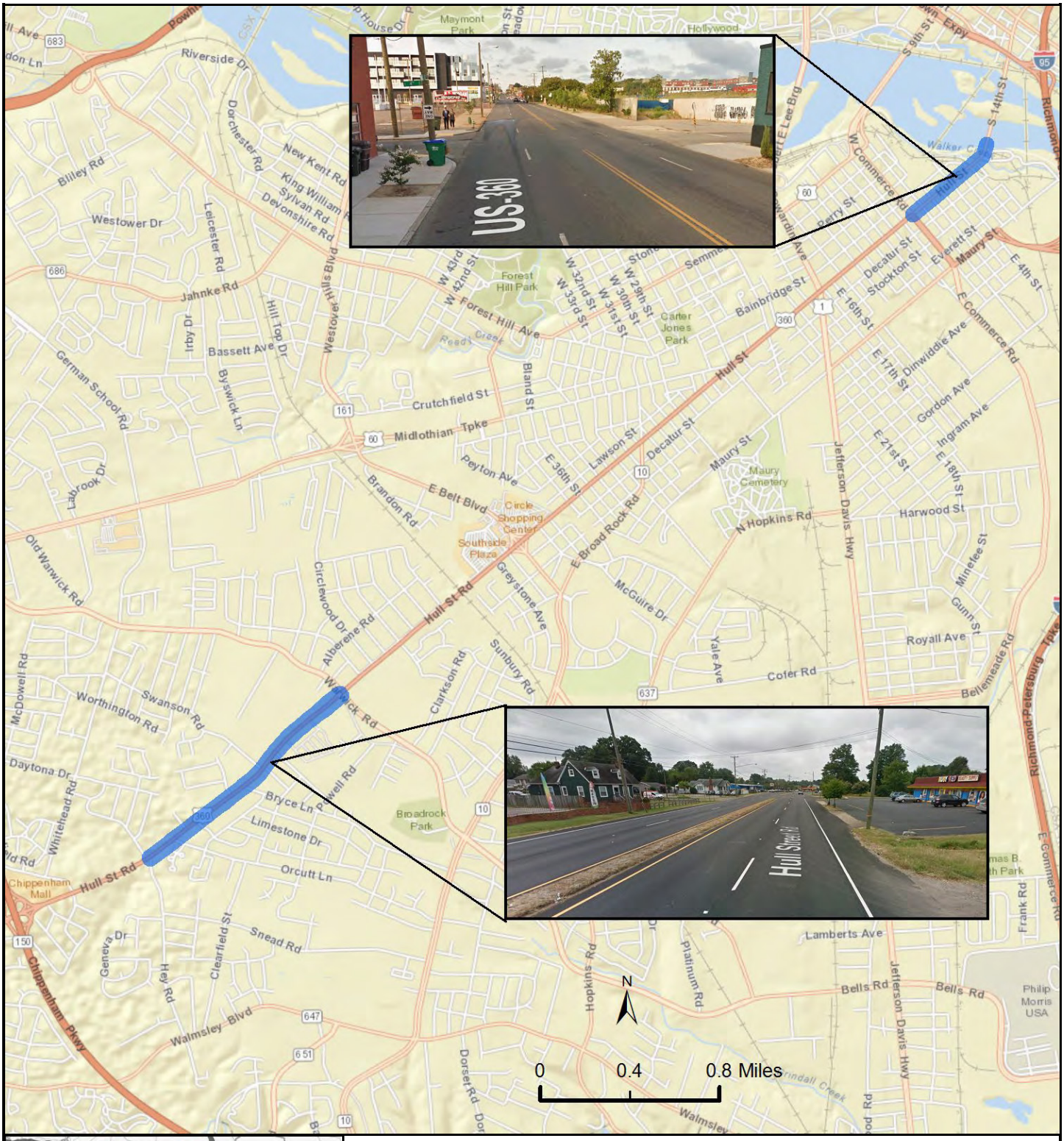
[X] SMART SCALE [X] TAP [X] CMAQ [ ] HSIP [ ] Prescoping [ ] Other:

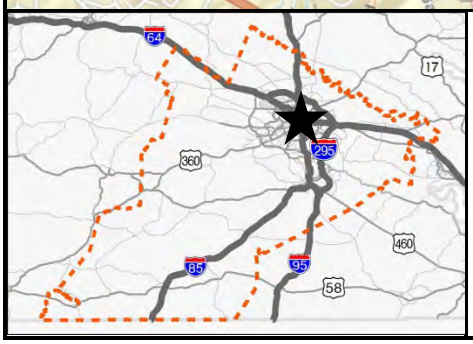
Estimated Project Cost (in $M) $ 48.40 Right of Way Required for Project [X]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Shared use path will provide safe facilities for pedestrians/bicyclists.
Congestion Mitigation	Dedicated turn lanes and access management will address congestion issues.
Accessibility	Pedestrian facilities will improve multimodal access in the corridor.
Land Use	Project is in areas zoned for mixed-use development.
Environment	Improvements will reduce transit delay and improve non-motorized access.
Economic Development	Project is referenced in the region's economic development strategy.





Project Reference Number: RICH17

Short Project Description: US 360 Hull Street Safety and Operations Improvements Phase 2

VDOT District: Richmond

Local Jurisdiction: Richmond City

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH19

Short Description

Broad Street and Parham Road Pedestrian and Transit Stop Improvements

District: Richmond

Local Jurisdiction: Henrico County

VMTP Need Type (Place X in all applicable boxes)

[X] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Richmond Needs B, I, L; CoSS Need C4:C

Project Status: Current Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [X] Bike/Pedestrian [X] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Management

Detailed Description of Improvements

Improvements on Broad Street and Parham Road include construction of missing sidewalk segments, ADA ramps, and new or improved bus stops and shelters.

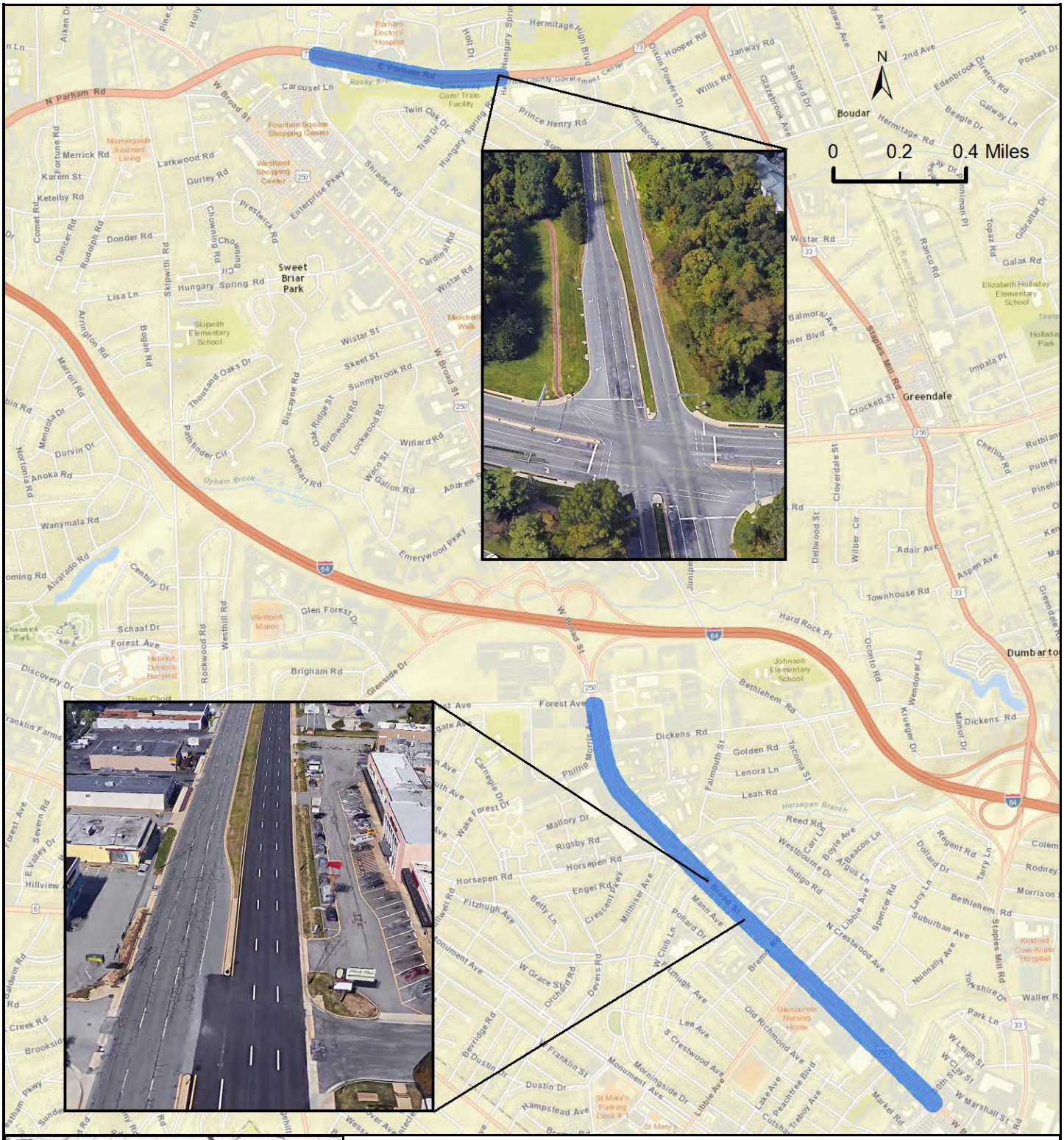
Potential Funding Sources
(Place X in all applicable boxes)

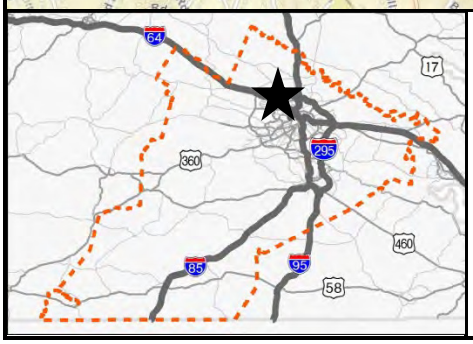
[X] SMART SCALE [X] TAP [X] CMAQ [ ] HSIP [ ] Prescoping [ ] Other:

Estimated Project Cost (in $M) $ 1.87 Right of Way Required for Project [X]

If Applicable: Smart Scale Project Feasibility
Based on Qualitative Review of Project

	Comments
Safety	Provides pedestrian with safer routes along new sidewalks.
Congestion Mitigation	New bus stops and pedestrian connections could reduce automobile traffic.
Accessibility	New sidewalks and bus stops improve accessibility for non-automobile modes.
Land Use	New sidewalks support in-fill development adjacent to project.
Environment	Promotes walking and transit use, which benefit air quality.
Economic Development	Consistent with local comprehensive plans and regional economic strategies.





Project Reference Number: RICH19

Short Project Description: Broad Street and Parham Road Pedestrian and Transit Stop Improvements

VDOT District: Richmond

Local Jurisdiction: Henrico County

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH20

Short Description

Interchange Improvements on I-64 at New Kent Highway, Ashland Road, North Gayton Road, and Gaskins Road

District: Richmond

Local Jurisdiction: Multiple

VMTP Need Type (Place X in all applicable boxes)

[X] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Richmond Needs A, H; CoSS Need C4:J

Project Status: Partially funded in 2017-2022 SYIP (e.g. PE or ROW only, but not complete construction)

Recommendation Features

Type (Place X in all applicable boxes)

[X] Highway [ ] Bike/Pedestrian [ ] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Managemen

Detailed Description of Improvements

I-64 interchange improvements at New Kent Highway and at Ashland Road are currently being studied and funded through PE with Regional Surface Transportation Program (RSTP) funds. Interchange improvements at Gaskins Road and a new interchange at North Gayton Road are also in early stages of study. Implementation of the findings of these studies has not been funded.

Once specific improvements have been identified, I-64 interchange improvements would be eligible for SMART SCALE and are reviewed below as a SMART SCALE-ready projects.

Potential Funding Sources

(Place X in all applicable boxes)

[X] SMART SCALE [ ] TAP [ ] CMAQ [ ] HSIP [ ] Prescoping [X] Other: RSTP

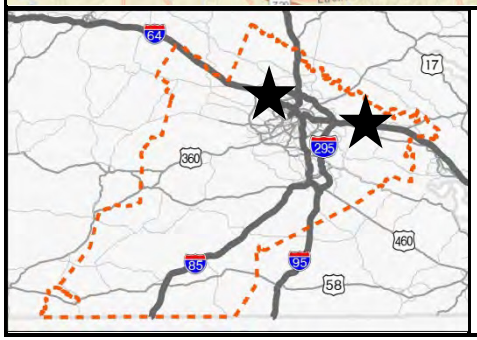
Estimated Project Cost (in $M): TBD

Right of Way Required for Project: [ ]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Could improve safe operations of each interchange.
Congestion Mitigation	Improved capacity could reduce congestion.
Accessibility	Not anticipated to improve accessibility.
Land Use	Improved connection to industrial sites for freight.
Environment	Reduced congestion could improve air quality.
Economic Development	Supports local and regional development plans.



Project Reference Number: RICH20

Short Project Description: Interchange Improvements on I-64 at New Kent Highway, Ashland Road, Gayton Road, and Gaskins Road

VDOT District: Richmond

Local Jurisdiction: Multiple

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH22

Short Description

Widen and Reconstruct Sadler Road in Innsbrook

District: Richmond

Local Jurisdiction: Henrico County

VMTP Need Type (Place X in all applicable boxes)

[ ] Corridor of Statewide Significance [X] Regional Network [X] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Richmond Needs D; UDA 22

Project Status: Partially funded in 2017-2022 SYIP (e.g. PE or ROW only, but not complete construction)

Recommendation Features

Type (Place X in all applicable boxes)

[X] Highway [ ] Bike/Pedestrian [ ] Bus Transit [ ] Rail Transit [ ] Freight Rail [ ] Travel Demand Managemen

Detailed Description of Improvements

Project widens and reconstructs Sadler Road between Dominion Boulevard and Cedar Forest Road. Additional capacity provides an alternate route between Exit 51 on I-295 and the Innsbrook Shoppes.

Once specific improvements have been identified, widening and reconstruction of Sadler Road would be eligible for SmartScale and is reviewed below as a SmartScale-ready project.

Potential Funding Sources

(Place X in all applicable boxes)

[X] SMART SCALE [ ] TAP [ ] CMAQ [ ] HSIP [ ] Prescoping [ ] Other: RSTP

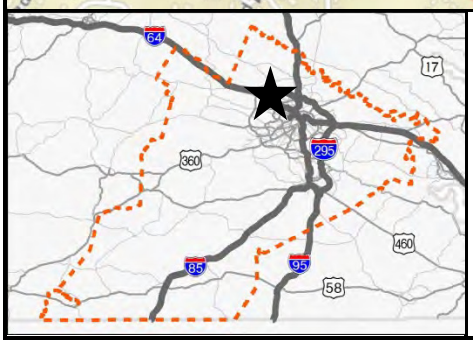
Estimated Project Cost (in $M): TBD

Right of Way Required for Project: [X]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Not anticipated to improve safety conditions.
Congestion Mitigation	Additional capacity could relieve congestion in the area.
Accessibility	Provides an alternative route between I-295 and a commercial center.
Land Use	Improves access to Innsbrook Shoppes.
Environment	Reduced congestion could improve air quality.
Economic Development	Supports local and regional development plans for growth.



Project Reference Number: RICH22

Short Project Description: Widen and Reconstruct Sadler Road in Innsbrook

VDOT District: Richmond

Local Jurisdiction: Henrico County

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH24

Short Description

Long Bridge Improvements

District: Northern Virginia

Local Jurisdiction: Multiple

VMTP Need Type (Place X in all applicable boxes)

[X] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Northern Virginia Need G; CoSS Needs G1:A, G1:G, K3:A, K3:C, H2:G

Project Status: Project defined and identified for funding within a fiscally constrained MPO LRTP

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [ ] Bike/Pedestrian [ ] Bus Transit [X] Rail Transit [X] Freight Rail [ ] Travel Demand Managemen

Detailed Description of Improvements

Project would expand Long Bridge, a two-track railroad bridge across the Potomac River that serves CSX, VRE, and Amtrak, to four tracks. Project is being managed by the District of Columbia Department of Transportation (DDOT) and is currently under environmental review. Order-of-magnitude costs range from approximately $400M to $1.4B, according to the Phase 1 Long Bridge Study by DDOT. Project is partially funded by FASTLANE Grant, as part of the Atlantic Gateway project, and private funding. While located outside of the Richmond district, this project is critical to addressing freight and passenger rail congestion in the I-95 corridor, including within the Richmond district.

Potential Funding Sources

(Place X in all applicable boxes)

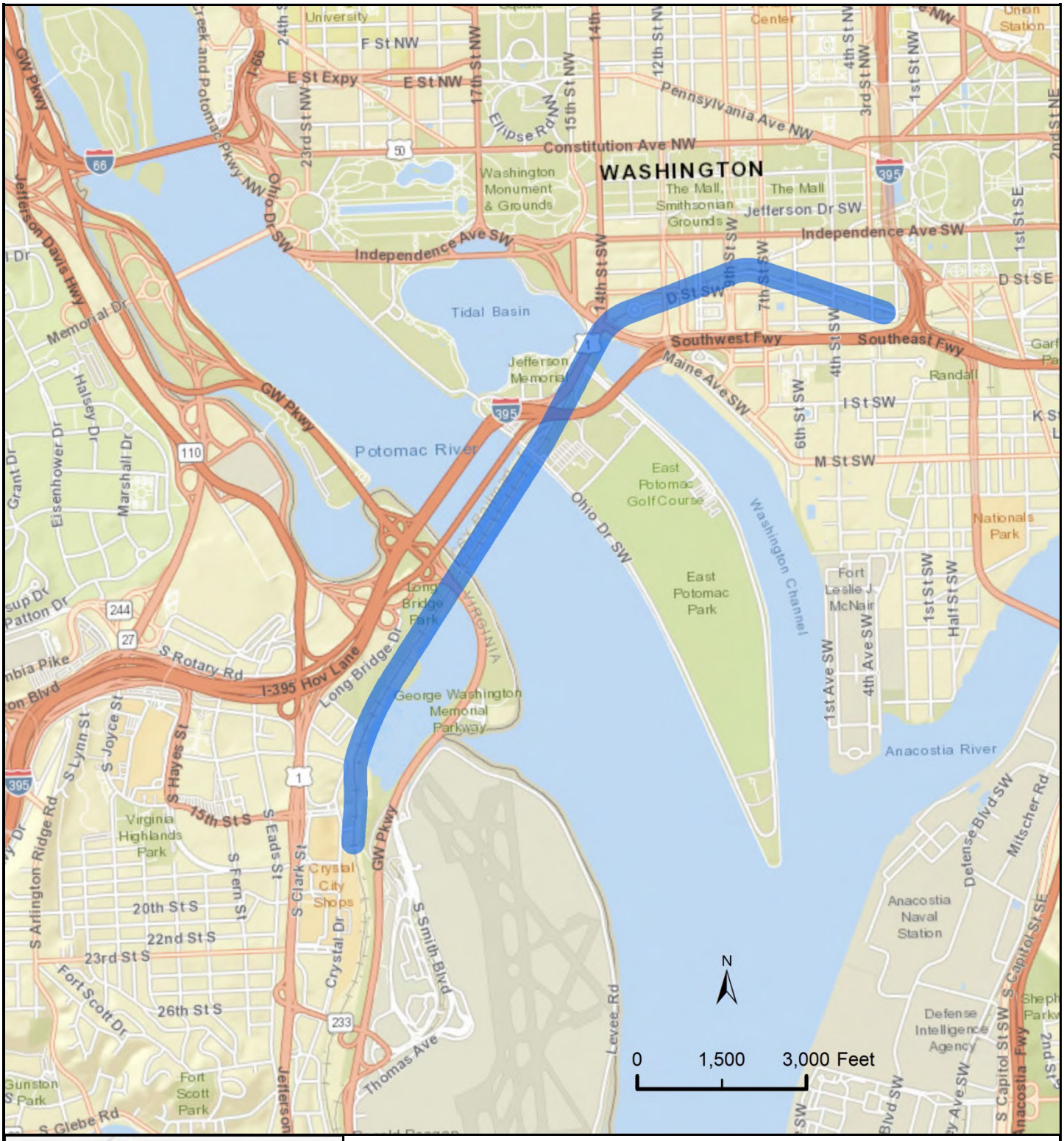
[X] SMART SCALE [ ] TAP [ ] CMAQ [ ] HSIP [ ] Prescoping [X] Other: FASTLANE Grant

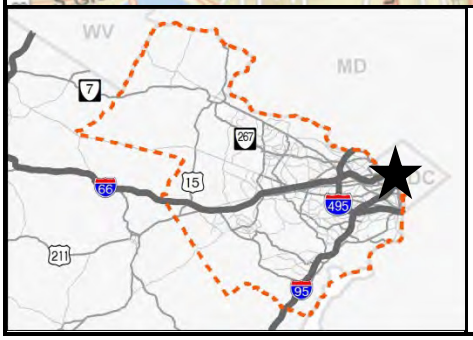
Estimated Project Cost (in $M) $ 800.00 Right of Way Required for Project [X]

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Could reduce roadway VMT by providing additional rail capacity.
Congestion Mitigation	Would eliminate a major bottleneck for rail corridor.
Accessibility	Provides capacity at bottleneck for passenger and freight rail services, improving access.
Land Use	Improves passenger rail reliability to developing areas.
Environment	Potential to reduce VMT and congestion could improve air quality.
Economic Development	Resolving bottleneck could promote economic development in the corridor.





Project Reference Number: RICH24

Short Project Description: Long Bridge Improvements

VDOT District: Northern Virginia

Local Jurisdiction: Multiple

VTrans2040 Multimodal Transportation Plan (VMTP)
2025 Tier 1 Recommendation Profile
Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** RICH25

Short Description
DC2RVA: Speed and Reliability Improvements

District
Richmond

Local Jurisdiction
Multiple

VMTP Need Type (Place X in all applicable boxes)

[X] Corridor of Statewide Significance [X] Regional Network [ ] UDAs [ ] Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)
Northern Virginia Need C, Richmond Need F; CoSS Needs G1:A, G1:G, K3:A, K3:C, H2:G, K2:D

Project Status: Project defined and identified for funding within a fiscally constrained MPO LRTP

Recommendation Features

Type (Place X in all applicable boxes)

[ ] Highway [ ] Bike/Pedestrian [ ] Bus Transit [X] Rail Transit [X] Freight Rail [ ] Travel Demand Managemen

Detailed Description of Improvements

Project includes additional tracks near Long Bridge and between Alexandria and Spotsylvania, VRE station platform improvements, a new station near Fredericksburg, and potential station improvements or relocations in Ashland and Richmond. Elements of the project are partially funded through the Atlantic Gateway FASTLANE Grant. Project cost is estimated to be between $4.98B and $5.21B in 2025 dollars. Additional capacity and station improvements are critical to addressing freight and passenger rail congestion in the I-95 corridor in the Northern Virginia, Fredericksburg, and Richmond districts.

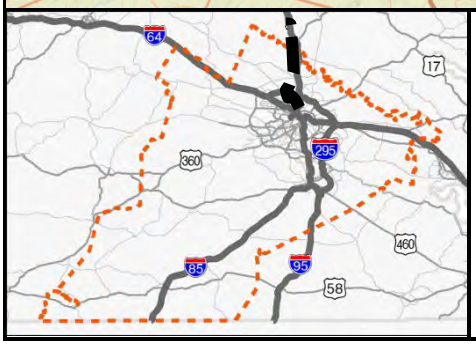
Potential Funding Sources
(Place X in all applicable boxes)

[X] SMART SCALE [ ] TAP [ ] CMAQ [ ] HSIP [ ] Prescoping [X] Other: FASTLANE Grant

Estimated Project Cost (in $M) $ 5,100.00 Right of Way Required for Project [X]

If Applicable: Smart Scale Project Feasibility
Based on Qualitative Review of Project

	Comments
Safety	Could reduce roadway VMT by providing additional rail capacity.
Congestion Mitigation	Would eliminate a major bottleneck for rail corridor.
Accessibility	Provides capacity at bottleneck for passenger and freight rail services, improving access.
Land Use	Improves passenger rail reliability to developing areas.
Environment	Potential to reduce VMT and congestion could improve air quality.
Economic Development	Resolving bottleneck could promote economic development in the corridor.



Project Reference Number: RICH25

Short Project Description: DC2RVA: Speed and Reliability Improvements

VDOT District: Richmond

Local Jurisdiction: Multiple