





Virginia Department of Transportation (VDOT) Hampton Roads Regional Priority Briefing

Community Advisory Committee (CAC)

Christopher G. Hall, P.E., District Engineer

December 8, 2022

District Overview

Operations and Maintenance



Hampton Roads District

- 9 counties, 12 cities, 2 islands
- Approximately 1,200 employees, consultants and contractors
- Approximately 10,000 Total Lane Miles, 1,200 bridges

Tunnels/Facilities

- I-64 Hampton Roads Bridge-Tunnel
- I-664 Monitor-Merrimac Memorial Bridge-Tunnel
- Jamestown-Scotland Ferry
- Transportation Operations Center
- Elizabeth River Tunnels (ERC Partnership / O&M Oversight)

Major Bridges

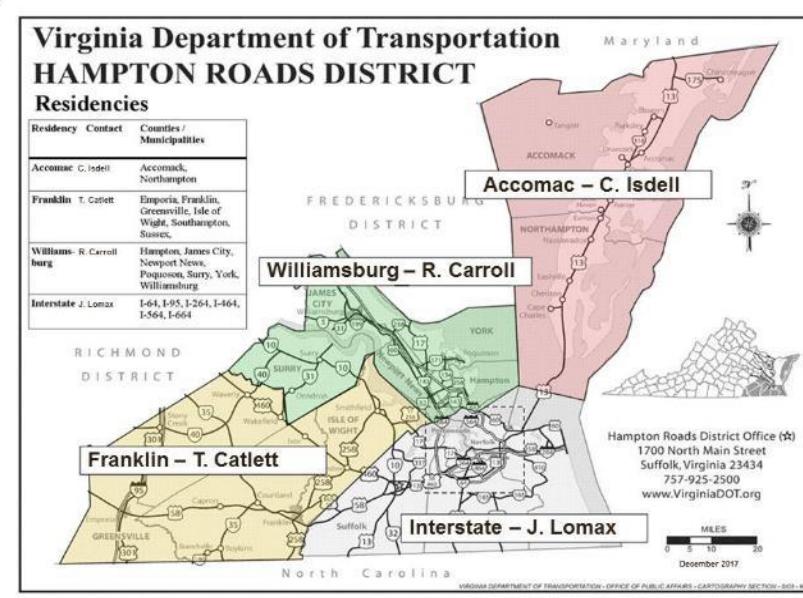
- James River Bridge
- High Rise Bridge
- Berkley Bridge
- Coleman Bridge
- Chincoteague Bridge

Residencies

- Accomac
- Franklin
- Williamsburg

Interstate Maintenance Office

- Interstate Contracts
- Urban Construction



Six-Year Improvement Plan Statewide Comparison*

District	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	SubTotal	Percent	Other Funds FY22-FY27	Total	Percent
Bristol	\$ 248,712	\$ 121,978	\$ 240,287	\$ 108,162	\$ 93,230	\$ 151,694	\$ 964,062	6.8%	\$ -	\$ 964,062	5.3%
Culpeper	\$ 91,744	\$ 91,812	\$ 69,525	\$ 64,080	\$ 98,964	\$ 66,810	\$ 482,935	3.4%	\$ -	\$ 482,935	2.6%
Fredericksburg	\$ 137,126	\$ 148,330	\$ 112,971	\$ 101,171	\$ 103,721	\$ 94,896	\$ 698,215	4.9%	\$ 286,320	\$ 984,535	5.4%
Hampton Roads	\$ 308,484	\$ 321,086	\$ 444,578	\$ 335,887	\$ 230,648	\$ 220,195	\$ 1,860,879	13.2%	\$ 2,879,202	\$ 4,740,081	26.0%
Lynchburg	\$ 91,889	\$ 89,863	\$ 64,856	\$ 64,842	\$ 84,350	\$ 78,216	\$ 474,016	3.4%	\$ -	\$ 474,016	2.6%
Northern Virginia	\$ 348,913	\$ 391,816	\$ 284,063	\$ 260,682	\$ 247,416	\$ 176,020	\$ 1,708,910	12.1%	\$ 921,721	\$ 2,630,632	14.4%
Richmond	\$ 233,580	\$ 222,680	\$ 161,658	\$ 178,820	\$ 209,357	\$ 167,634	\$ 1,173,729	8.3%	\$ 4,904	\$ 1,178,633	6.5%
Salem	\$ 414,569	\$ 117,451	\$ 186,437	\$ 112,122	\$ 139,109	\$ 321,253	\$ 1,290,941	9.1%	\$ -	\$ 1,290,941	7.1%
Staunton	\$ 151,366	\$ 140,977	\$ 326,123	\$ 159,552	\$ 157,685	\$ 245,164	\$ 1,180,868	8.4%	\$ -	\$ 1,180,868	6.5%
Multi-District	\$ 623,029	\$ 557,177	\$ 558,016	\$ 777,512	\$ 780,744	\$ 1,008,928	\$ 4,305,406	30.4%	\$ -	\$ 4,305,406	23.6%
Total	\$ 2,649,410	\$ 2,203,170	\$ 2,448,513	\$ 2,162,831	\$ 2,145,226	\$ 2,530,810	\$14,139,960	100.0%	\$ 4,092,147	\$18,232,108	100.0%

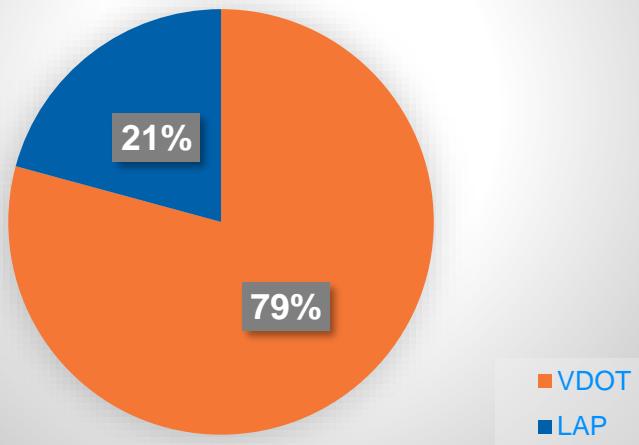
CTB SYIP Report Notes:

- Projects with previous funds only are not included in this CTB SYIP Report (only exception are Smart Scale Projects)
- HRTAC contributions (previous thru FY2027 allocations total \$4.4B)

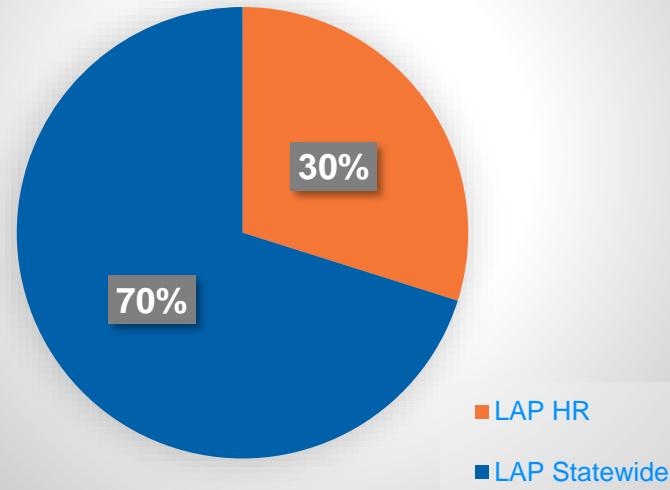
*in thousands

Locally Administered Program – CN Value

Statewide VDOT vs Statewide LAP% of CN Value
SYIP
3078 Projects
Statewide CN Value VDOT & LAP - \$22.1 bil
Statewide LAP CN Value - \$4.6 bil



Statewide LAP vs HR LAP % of CN Value
SYIP
1245 Projects
Statewide LAP CN Value \$4.6 bil
Hampton Roads LAP CN Value - \$1.4 bil

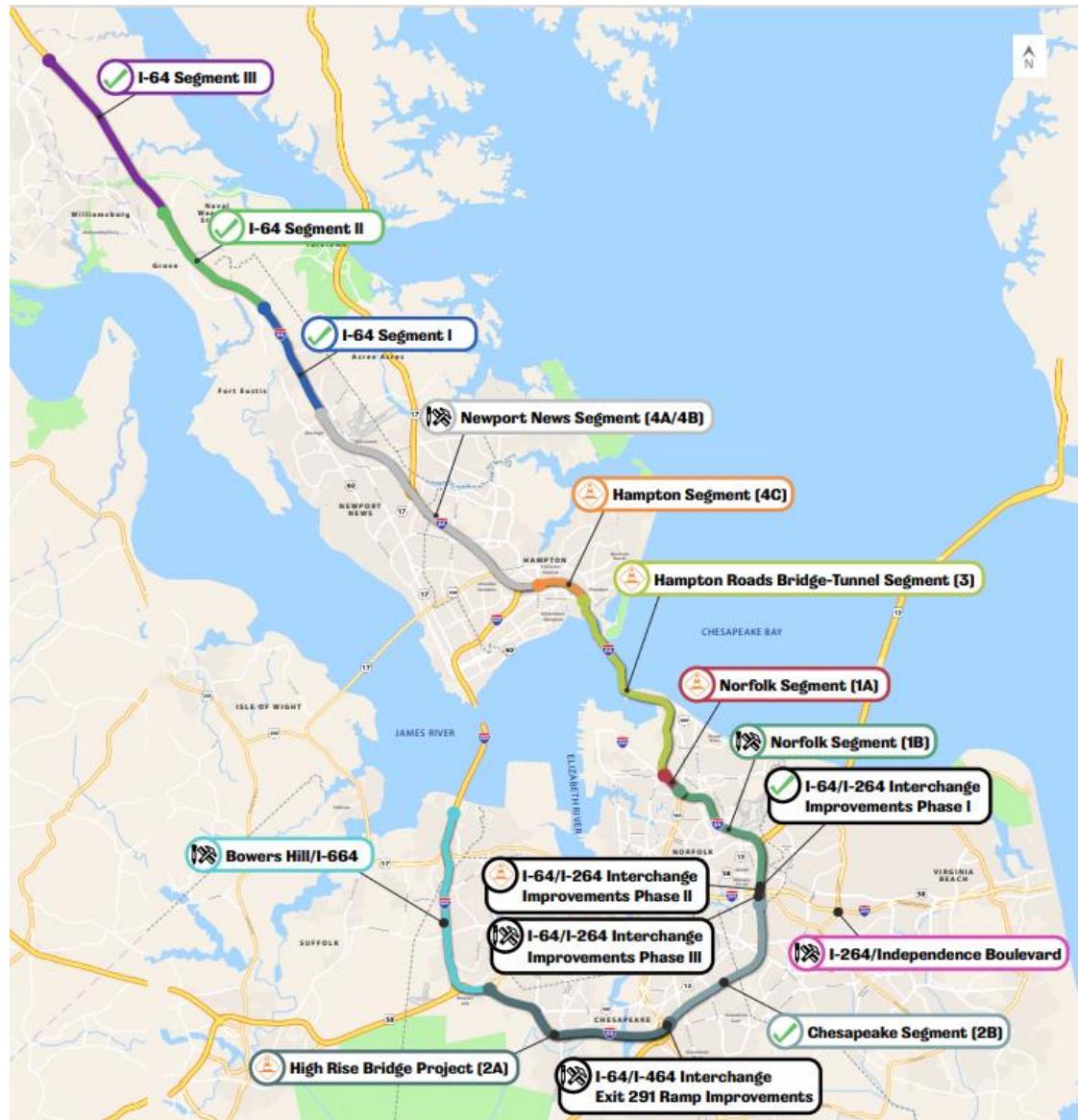


Includes projects with the following status – No Dates Set Yet, No Dates Set Yet –PE Open, Activity Dates Set Yet, Advertised, Awarded, CN Started

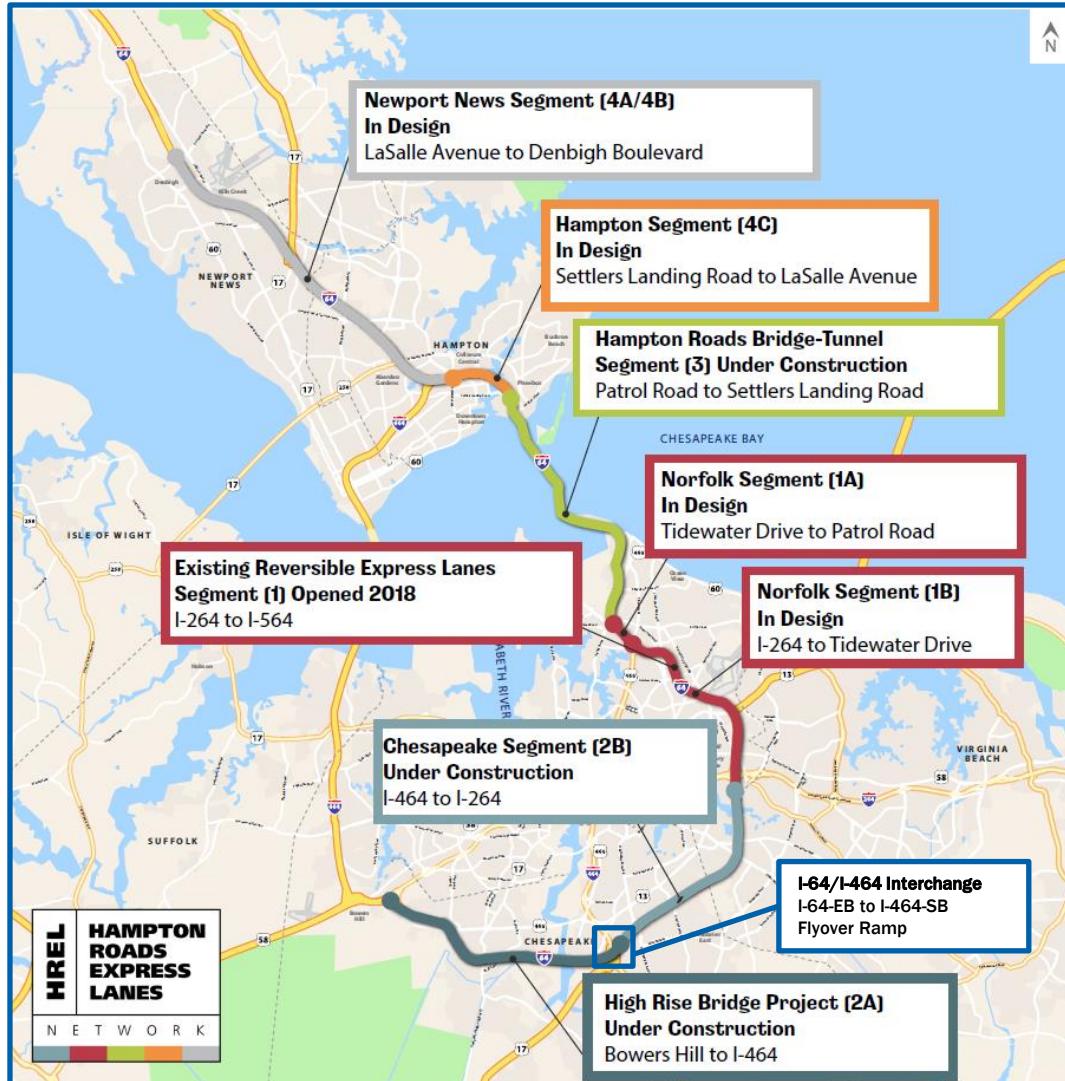
Building the Future

From 2015 to the Present

Enabled by funding from:



Hampton Roads Express Lanes Network



Project	Completion
Segment 4A/4B	TBD
Segment 4C	December 2026
Segment 3 (Toll Infr.)	February 2026
Segment 1A	December 2025
Segment 1B	TBD
Segment 2B	Completed
I464/I64 Flyover Ramp	TBD

Total Cost of Projects: \$1,221M

Hampton Roads Express Lanes – Overview Video

<https://vimeo.com/551945830/a3e76bf552>

I-464/I-64 Exit 291 Ramp Flyover

Project Scope:

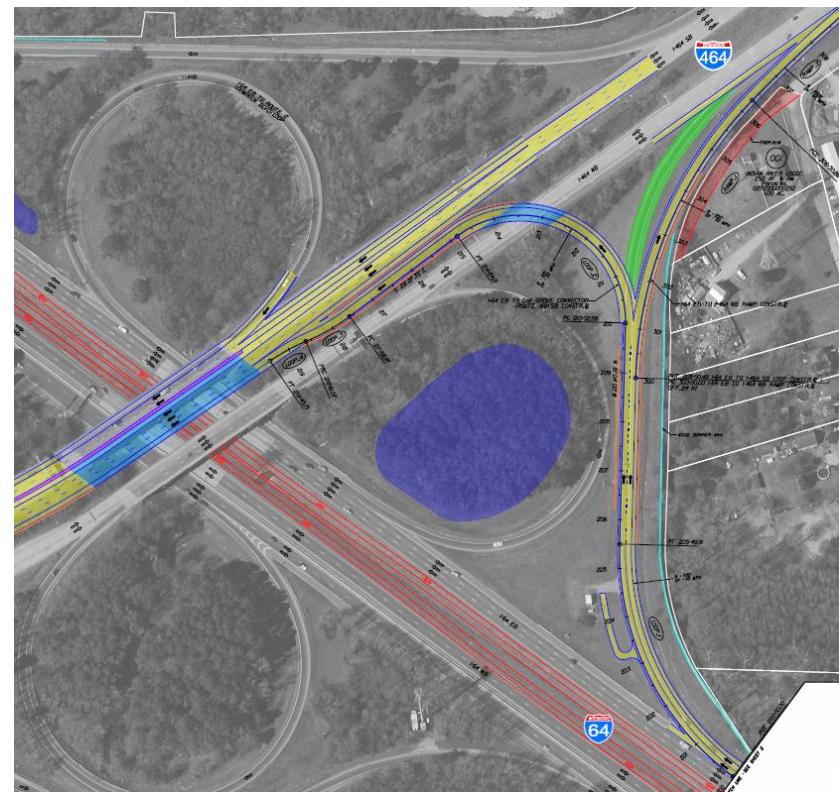
- Widen the off ramp from I-64-WB to I-464-NB to 2 lanes. From the left lane of the widened ramp, add a new ramp for I-64-WB to I-464-SB towards Route 168, including a new flyover ramp over the I-464-NB lanes.
- Widen the I-464-SB bridge over I-64 to the inside to accommodate the added lane from the flyover bridge.

Project Status: Under Design

- Design-Build project
- RFQ plans completed
- RFQ: TBD
- RFP: TBD
- Estimated Project Cost: \$140M

Contract:

- Construction NTP: TBD
- Construction Completion: TBD



I-64 Southside Widening & High Rise Bridge

Project Scope:

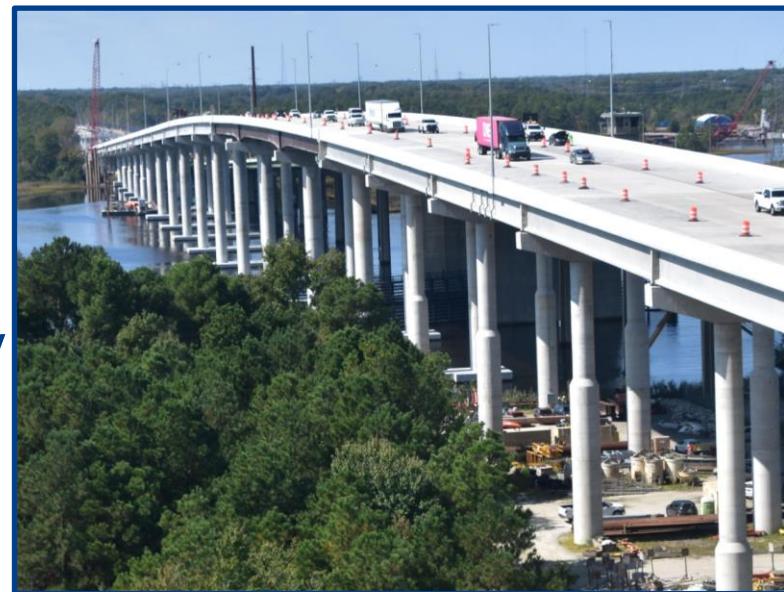
- 8.75 miles of interstate widening (from 4 to 6 lanes)
- New express lane in each direction constructed in the median
- Widen six existing bridges
- Replace Great Bridge Boulevard Bridge (GBBB)
- Construct new High Rise Bridge for I-64-WB traffic
- Convert existing High Rise Bridge for one-way (I-64-EB) traffic

Project Status: Under Construction

- New High Rise Bridge completed
- GBBB and Bridge widenings completed
- Roadway widening, Existing HRB ongoing

Contractor: Granite-Parsons-Corman, JV

- DB Contract: \$409.6M
- NTP: Nov. 2017
- Completion: Dec. 2022





Recently Completed

I-264/I-64 Phase II – Witchduck Road

Project Scope:

- Extends C-D Road from Newtown Road to Witchduck Road
- Reconfigure Newtown Road and Witchduck Road Interchanges
- Construct Greenwich Road Flyover Bridge

Project Status: Complete

Contractor: Lane Construction

- DBB Contract: \$105.4M
- NTP: Feb. 2018
- Completed: Nov. 2022





In Construction



Laskin Road Reconstruction



Improve capacity and safety through widening and improvements and replace a bridge over Linkhorn Bay

- Allan Myers VA, Inc.
 - Contract: \$83.2M
 - NTP: Sept. 3, 2019
 - FCD: Apr. 29, 2023



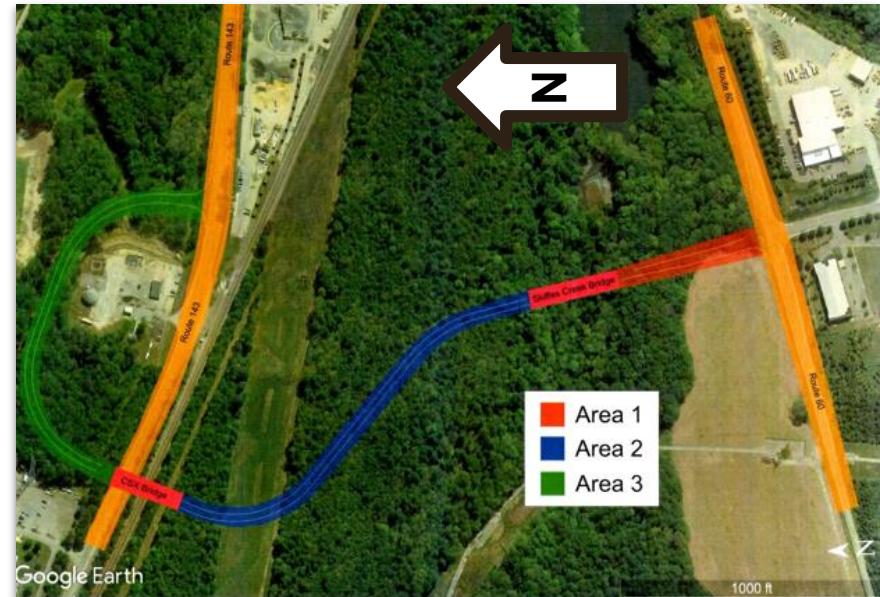
Skiffes Creek Connector



Provides strategic connectivity between US-60 and SR-143 to redirect industrial traffic away from James River Elementary School, reduce traffic from the Lee Hall community in the city of Newport News, and provide long-range, additional access to Fort Eustis.

- Contractor: Shirley-Dewberry

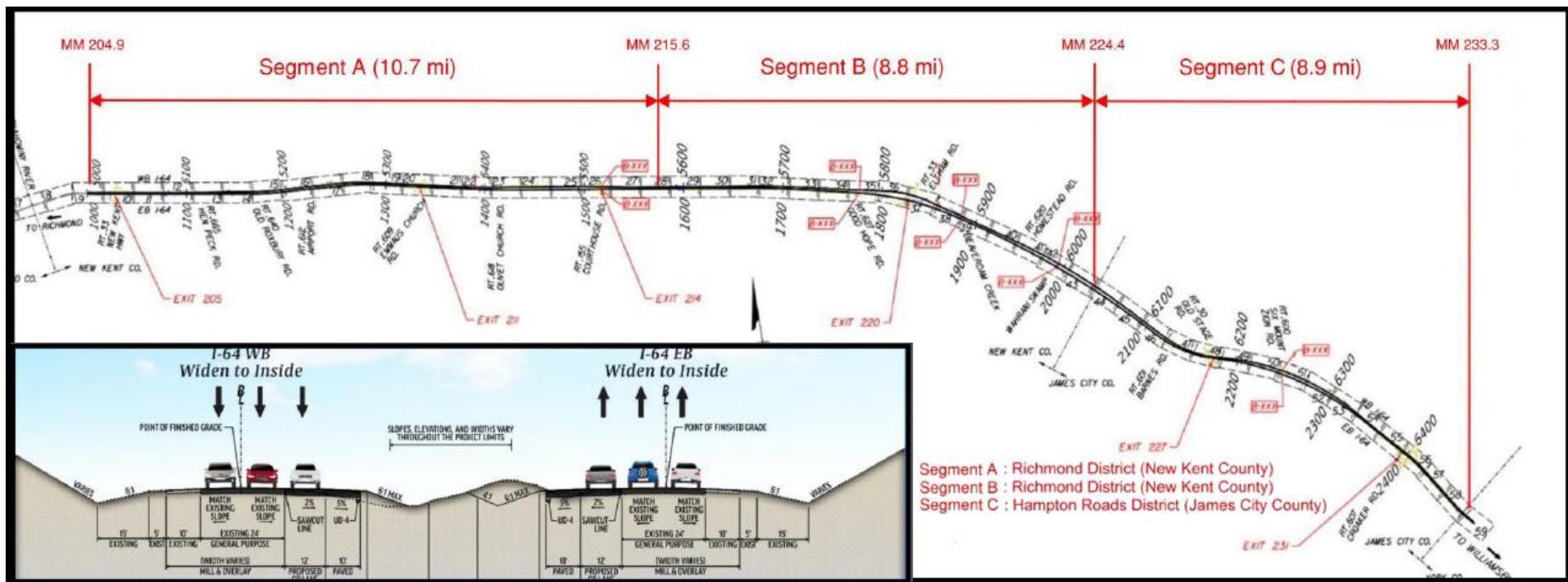
- Contract: \$24.48M
- NTP: Feb. 4, 2020
- Opened to traffic on Nov. 17, 2022 ✓
- FCD: Dec. 15, 2022





In Design

I-64 GAP Project



Scope

- Widen 29 miles of I-64
 - ✓ Add one 12-ft General Purpose Lane
 - ✓ 10-ft wide Paved Shoulder
 - ✓ Widening to the median EB & WB (MM 205 – MM 234)

Schedule

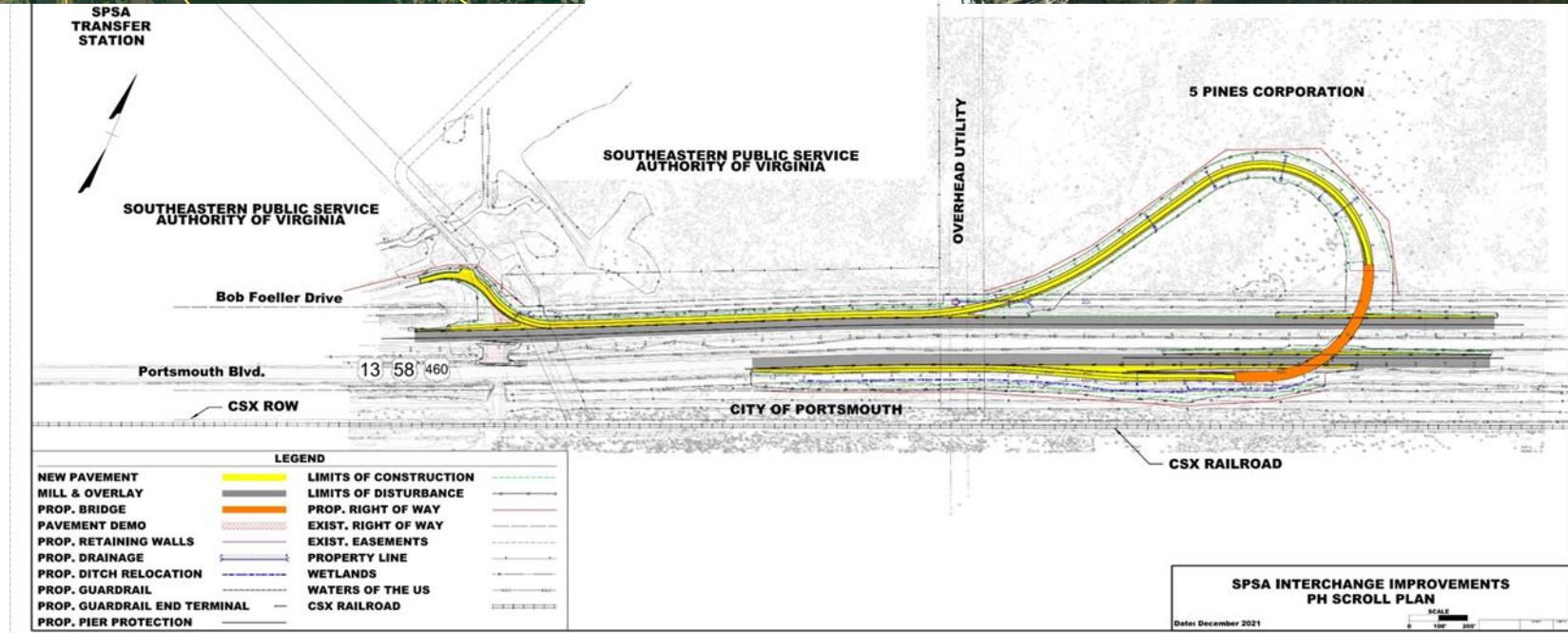
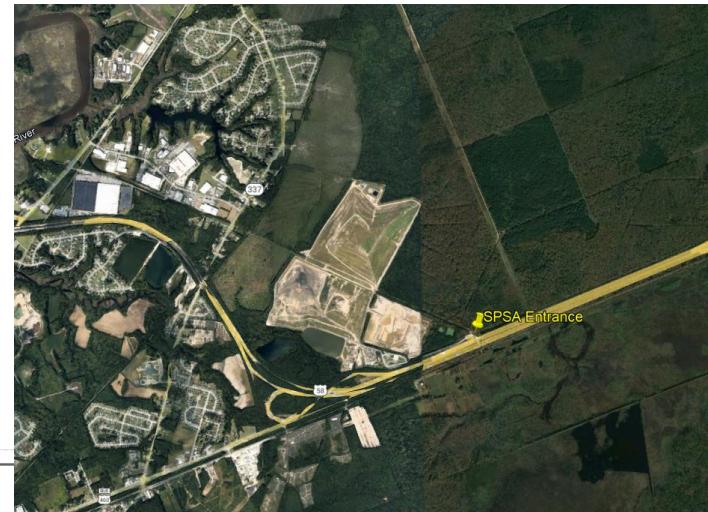
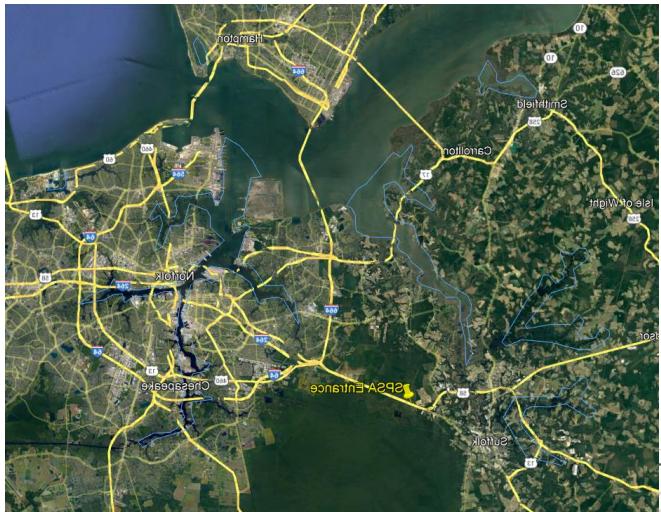
- RFQ Late 2022 → RFP Spring 2023

Budget

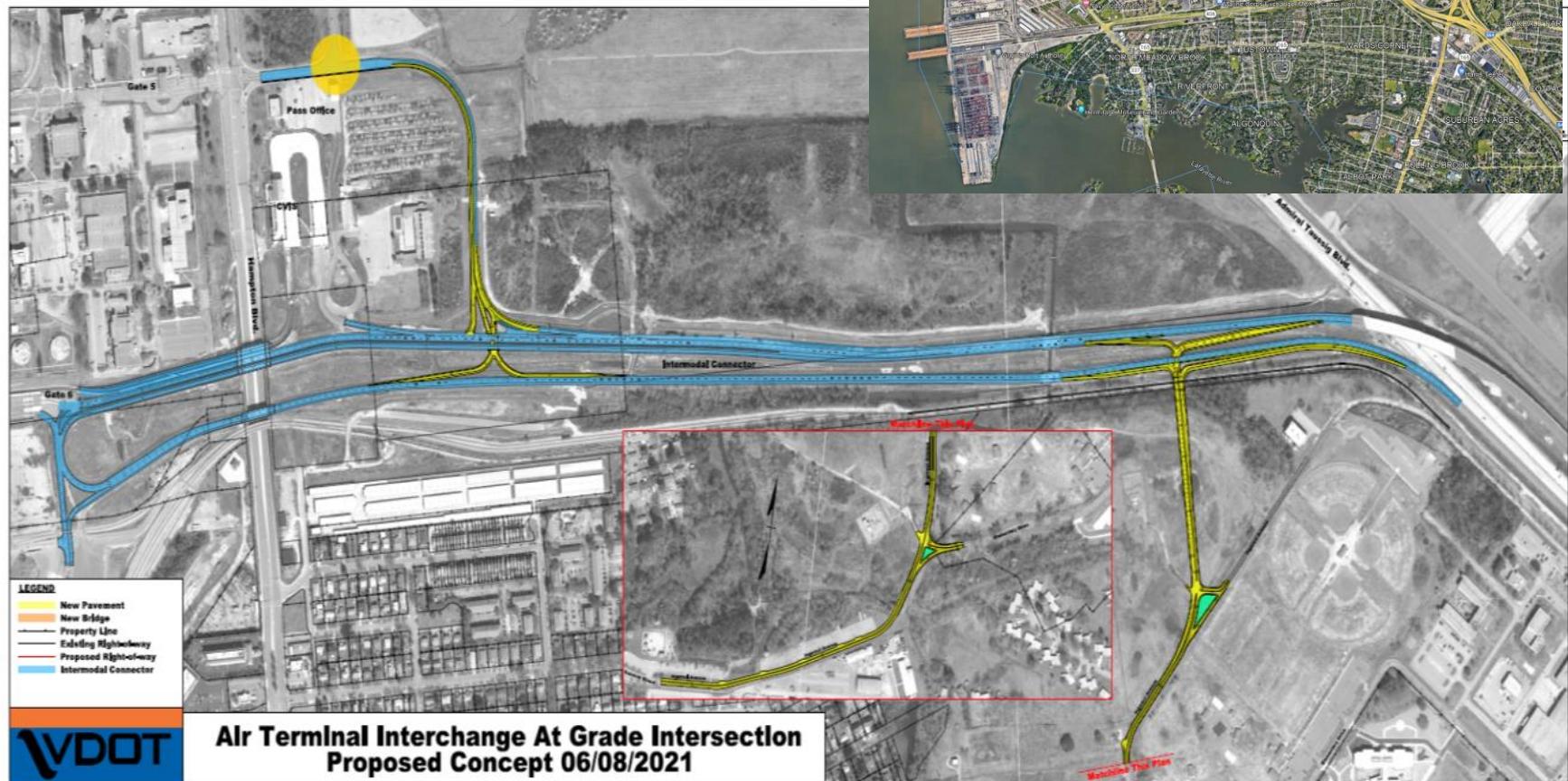
- Total Cost: Approximately \$750M

SPSA FLYOVER ENTERANCE OVER RTE'S 13/58/460 -

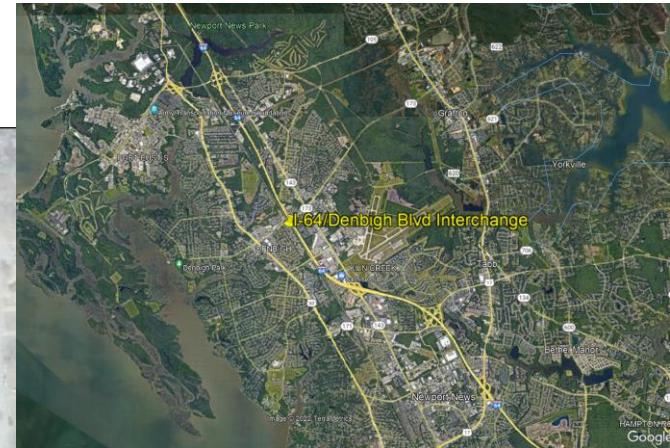
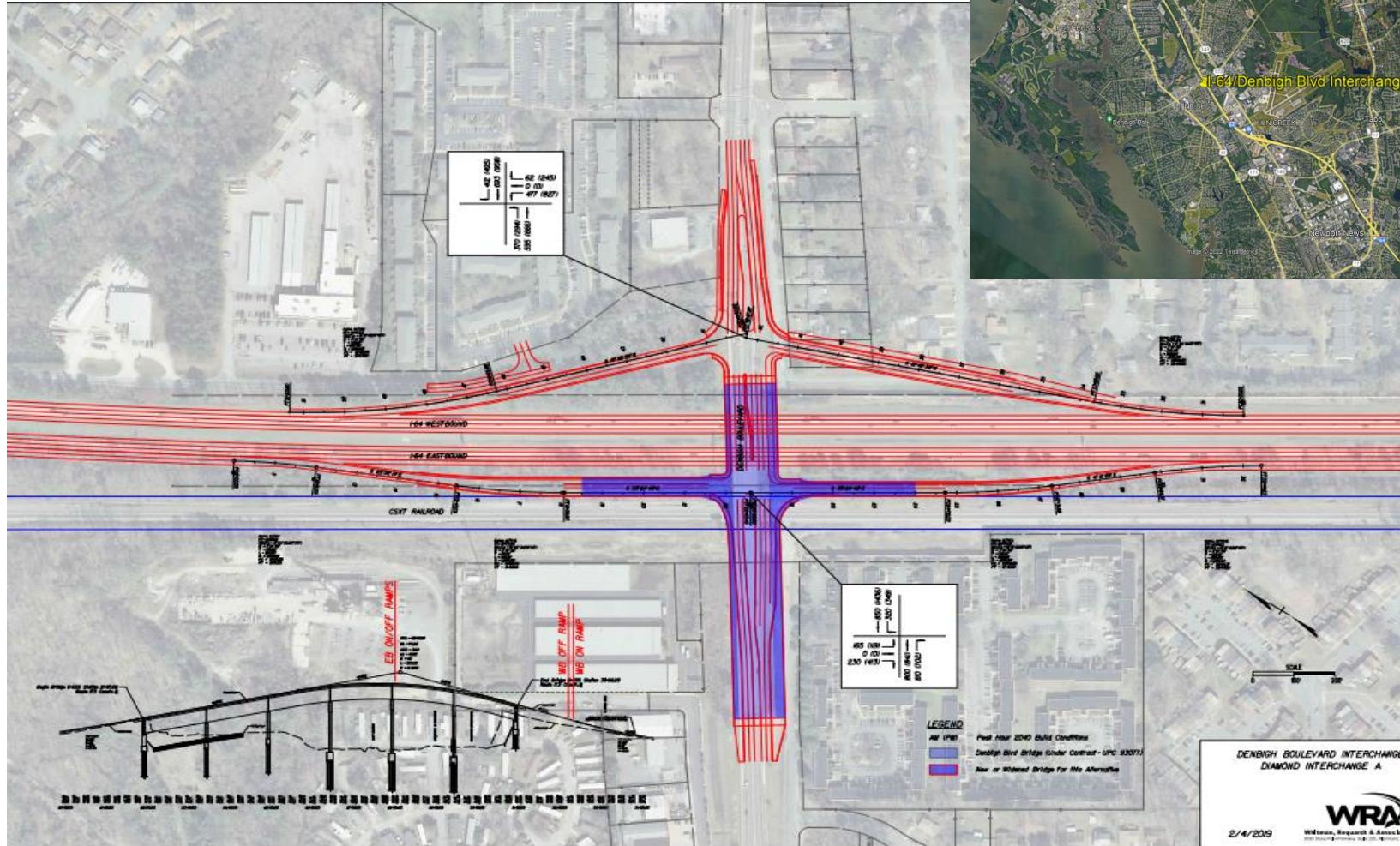
Phase 1



AIR TERMINAL INTERCHANGE (ATI)



I-64/ Denbigh Blvd Interchange





In Planning

PLANNING AND FUTURE PROJECTS

2045 LRTP Highway Regional Priority Projects

Map Label	Completed Highway Regional Priority Projects (RPPs)	Completion
1	I-64 Peninsula Widening - Segment 1	2017
2	I-64 Peninsula Widening - Segment 2	2019
3	I-64/I-264 Interchange - Phase I	2019
	RPPs Under Construction	Estimated Completion
4	I-64 Peninsula Widening - Segment 3 (Exit 242 to Exit 234)	2021
5	I-64/I-264 Interchange - Phase II	2021
6	I-64 Southside Widening, including High-Rise Bridge (I-464 to I-664)	2021
7	I-64/Hampton-Roads Bridge-Tunnel Expansion (near Hampton Coliseum to I-564)	2026
	Additional RPPs planned in the 2045 LRTP	
8	Hampton Roads Express Lane Network (Jefferson Avenue to Bowers Hill)	2026
9	I-64/I-264 Interchange - Phase III-A	
10	I-664 Widening, including Bowers Hill Interchange (Bowers Hill to College Drive)	
11	I-264 Widening (Witchduck Road to Independence Boulevard)	
12	I-264/Independence Boulevard Interchange	
13	I-64/I-464 Loop Ramps	
14	I-64/Denbigh Boulevard Interchange	
15	VA-164 Widening (West Norfolk Road to I-664)	
16	VA-168 Bypass Widening (I-64 to Hillcrest Parkway)	
	RPPs Under Study	
17	Regional Connectors Study	



I-64 Denbigh IJR

Consultant: AECOM Cost: \$430K

- IJR Addendum has been reviewed by Central Office staff and was submitted to FHWA on 11/17/22

Next Steps: IJR Addendum Approval Pending FHWA Review.

I-64/I-464 OSAR

Consultant: Kimley-Horn

Received Final draft submittal which has been sent to CO and VDOT sections for review.

Next Steps: Awaiting concurrence from Central Office

I-264/ Independence IAR

Consultant: WSP Cost: 450K

- Draft Scope was submitted to City Staff for Internal review.
- T.E on-call request has been submitted to VDOT leadership for approval

Next Steps: Scope to be finalized once HRTAC funding is made available

I-64/I-464 IAR

PMO Leading Study Effort

- Current: Planning supporting in development of IAR
- Currently assisting with getting consultant on board and scope of work
- HRTAC provided funding to get project initiated

PLANNING AND FUTURE PROJECTS

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16	VA-168 Bypass Widening (I-64 to Hillcrest Parkway)	
RPPs Under Study		
17	Regional Connectors Study	



BoAT

Consultant: Baker Cost: \$200K

- Segments of the trail were submitted for SMART scale funding and results are pending validation
- Consultant setting up meetings with localities

Next Steps: Discussion with localities on next priority trail segments

VA I-64 Freight Corridor Study

Consultant: RKK Cost: 270K

- Current: Changes to the Study scope are being vetted by the consultant.

Next Steps:

- Receive Study NTP.
- Study estimated to be completed within a year of NTP

Eastern Shore Trail

Consultant: VHB/Michael Baker

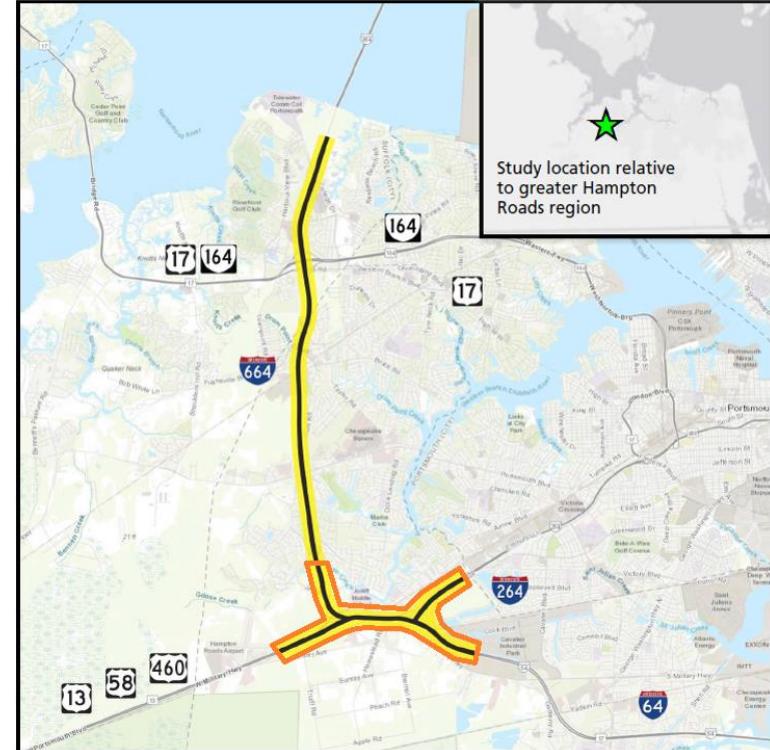
- Received Earmark from Cape Charles to Route 13.
- Statewide Trails Office has allocated \$1 million to P.E.
- Options being explored to develop design plans

Next Steps: Upcoming Meeting in December to discuss materials and design

BOWERS HILL INTERCHANGE/I-664 WIDENING STUDY

Purpose and Need

The purpose of the Bowers Hill Interchange Improvements Study is to reduce current congestion, improve travel reliability, and provide additional travel choice on I-664 from and including the Bowers Hill Interchange to College Drive.



THE NEED ELEMENTS IDENTIFIED FOR THE STUDY ARE:



REDUCE CONGESTION



IMPROVE TRAVEL RELIABILITY



PROVIDE ADDITIONAL TRAVEL CHOICE

BOWERS HILL INTERCHANGE/I-664 WIDENING STUDY

Preferred Alternative for Environmental Impact Study (EIS)

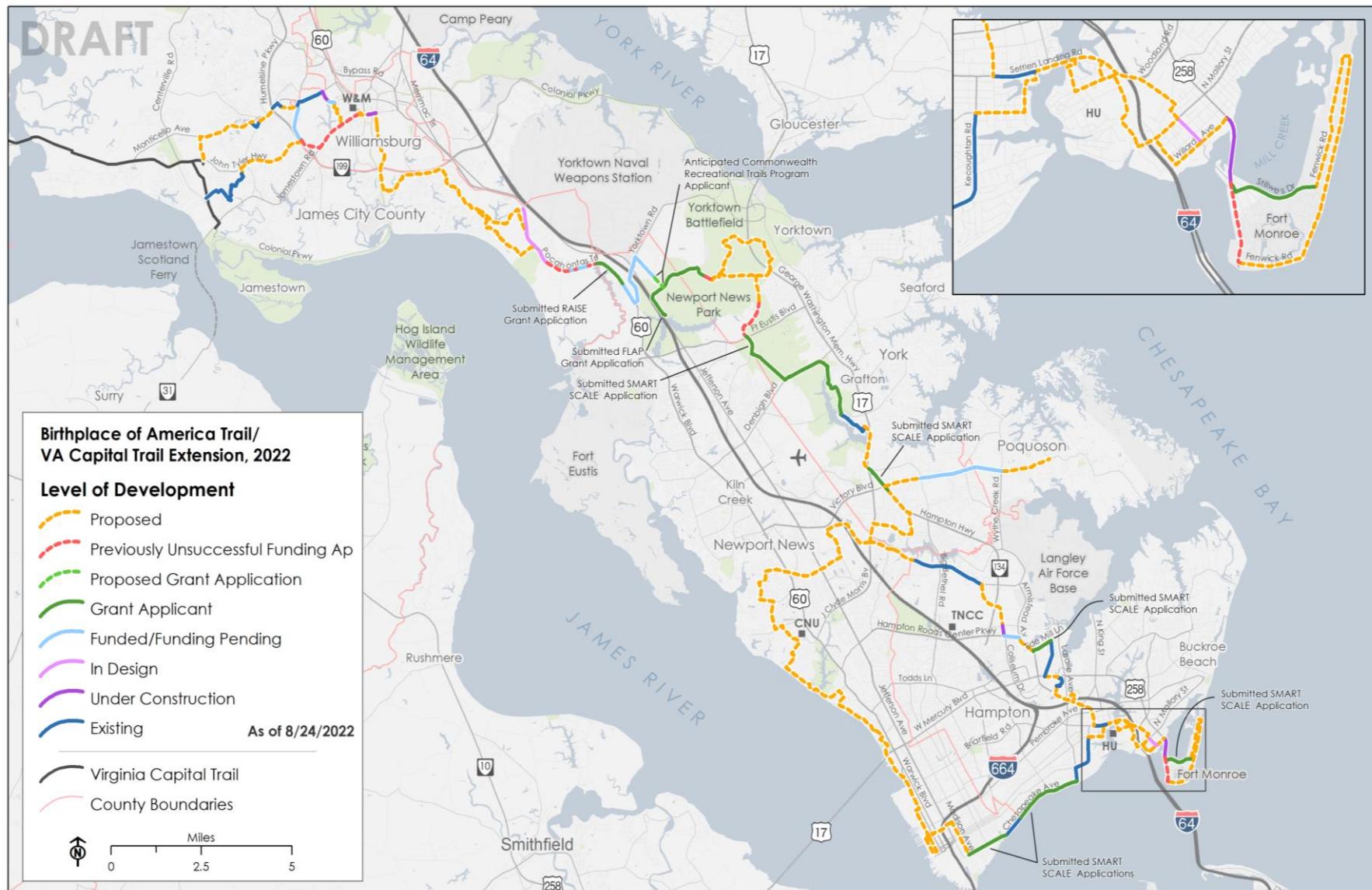
Add One Managed Lane and a Part-time Drivable Shoulder (PTDS) in Each Direction, Including Improvements to the Bowers Hill Interchange (Alternative C)



BIRTHPLACE OF AMERICA TRAIL (BoAT)



BoAT (Continued)



Eastern Shore of Virginia Rail Trail

Round 5 Applications

Eastern Shore of Virginia Rail Trail

Description - 10' wide multi-use paved path along the former Bay Coast Railroad from the future location of the Cape Charles Park and Ride Lot to approximately 0.6 miles south of the Town of Hallwood. Approximately 46.3 miles in length. (31.8 M)

Onley to Parksley Segment

Description - A 10' wide multi-use paved path along the former Bay Coast Railroad corridor. Approximately 8.3 miles from E Main Street in Onley to Christine Lane just north of Parksley in Accomack County (5.7 M)

Northampton Segment

Description - 10' wide multi-use paved path from the future location of the Cape Charles Park and Ride Lot to the northern Northampton County line (County Line Rd). The proposed project is approximately 20.9 miles in length. (14.8 M)

Melfa to Onley Segment

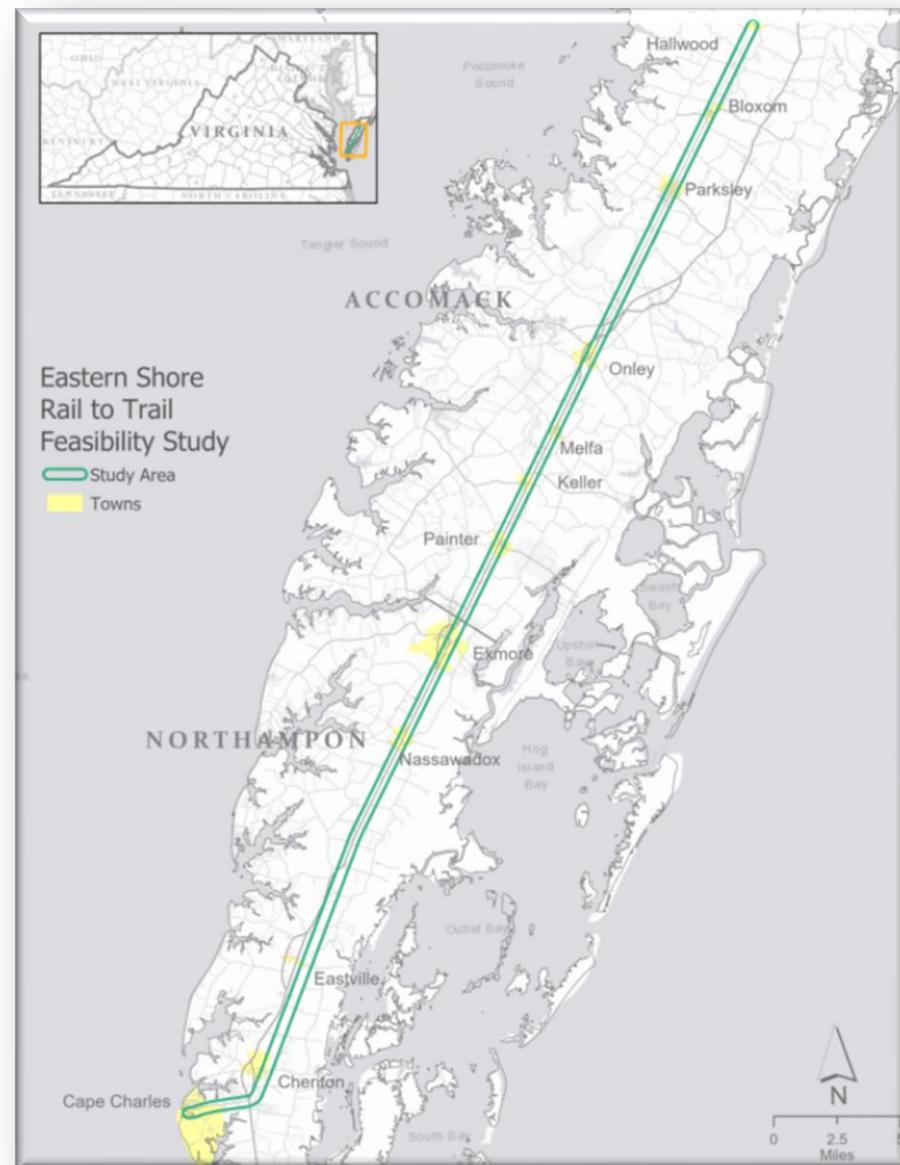
Description - Extends the Eastern Shore Rail Trail approximately 4.2 miles from the intersection of U.S. Route 13/Parkway Drive and will terminate in the Town of Onley at the intersection of the trail with E Main Street. (2.9M)

Cape Charles Portion

Description - 10' wide multi-use paved path along the former Bay Coast Railroad from the future location of the Cape Charles Park and Ride Lot to Route 13. It is approximately 2.3 miles in length. This section of the Rail to Trail has been funded with \$2.5 million of IIJA funds.

Next Steps:

- Statewide Trails Office has allocated \$1 million to PE of the trail system.
- District is currently exploring options to further develop the trail design plans.
- A meeting will be held on 12/1/22 to discuss project materials. Another meeting will be held on 12/7/22 to discuss the trail design options.
- SMART Scale applications are being evaluated at current time.



Pipeline Studies

Program Timeline



- Conduct broad analysis to understand problems (VTrans needs) and causes
- Develop range of possible alternatives to improve performance
- Engage stakeholders/public and obtain feedback
- Perform sketch level analysis to narrow options, followed by detailed analysis
- Develop planning level estimates and identify preferred alternatives
- Refine investment strategy to understand risks and estimate project costs
- Finalize multimodal investment strategy/deliverables

UPC	Location	Project	Status	Study Cost Estimate
120004 (HR01)	Chesapeake	Route 168 (Battlefield Boulevard) Corridor	Final Report Draft expected End of December	\$25,000
120003 (HR02)	Chesapeake	Route 168 at Battlefield Boulevard Interchange	Final Report Draft expected End of December	\$75,000
120002 (HR03)	Newport News	Route 143 (Jefferson Avenue) at Fort Eustis Boulevard	Final Draft report has been submitted and is under review	\$50,000
120001 (HR04)	Norfolk	US 13 (Military Highway) at Poplar Hall Drive	Resulted in 1 CMAQ application. Not submitted for SMART Scale	\$80,000
120000 (HR05)	Williamsburg	Route 199 (Humelsine Parkway) from Jamestown Road to John Tyler Highway	Public outreach completed in September. Study expected to be completed in first quarter 2023	\$25,000

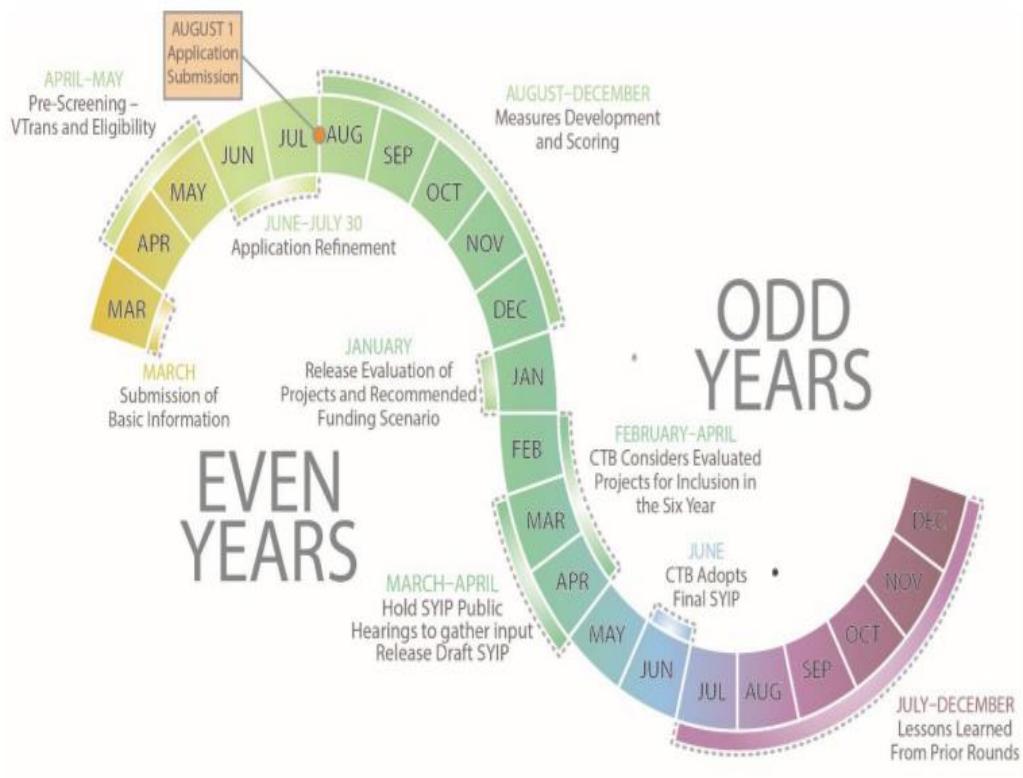
Hampton Roads STARS Projects



PROJECT FUNDING PURSUED

STUDY NTP YEAR	STUDY LOCATION	STUDY	STATUS	STUDY FEE	FUNDING PURSUED	FUNDING RECEIVED	PROJECT STATUS
2015	Norfolk	Interchange of I-64 and Northampton Blvd Interchange Operations Analysis Report	Project Completed	\$389,394	Smart Scale: UPC 107044 I-64/Northampton Blvd Interchange Modifications	\$9,300,000	Complete
2016	Hampton	Mercury Boulevard (Route 258) Operational and Pedestrian Enhancement Project	Project Completed	\$299,934			
2017	Virginia Beach	I-264/Independence Blvd Interchange and Independence Blvd Corridor	Project Completed	\$392,848	Smart Scale: UPC 119231 Independence Blvd/Edwin Drive Intersection Improvements	\$9,800,000	Ongoing
2017	Norfolk	I-264 at Ballentine Blvd (Exit 12) Interchange Modification Report and Preliminary Design	Project Completed	\$364,552	Smart Scale: UPC 111788 I-264 W Off-ramp at Ballentine Boulevard	\$1,710,000	Ongoing
2019	Norfolk	Intersection of Route 58 (Virginia Beach Blvd) and Route 165 (Kempsville Road)	Project Completed	\$104,180			
2019	Newport News	Route 143 Jefferson Ave	Project report (Chapters 1-4) has been being reviewed and Metroquest Survey for the proposed alternatives is expected to go out in December	\$201,860			
2019	Suffolk	Route 17 Bridge Road (College Drive to Hampton Roads Pkwy) and Harbour Roads Pkwy to Rt 17) Corridor	Study Presented to Isle of Wight Board of supervisors on 11/17/22 and final report expected to be submitted in December.	\$250,000			
2019	Norfolk	I- 264 Brambleton Avenue Interchange	Project Completed	\$152,373			
2019	Suffolk	Godwin Blvd from 460/58/13 (Suffolk Bypass) to Route 634 (King's Fork Road)	Project Completed	\$120,604	Smart Scale: App ID: 7047 Route 10/32 Diverging Diamond Interchange (\$12,901,047), UPC 119334 Godwin Boulevard Improvements	\$8,560,754	Ongoing
2020	Town of Onley	Route 13 (Lankford Highway) Corridor Improvement Study	Project Completed	\$200,000	Smart Scale: App ID: 7181 Onley to Accomac Route 13 Crossover Improvements		
2020	Portsmouth	George Washington Hwy & Victory Blvd Intersection Study	A Study workgroup meeting was held on 09/13/22 to presents the results of the Study. Consultant is currently finalizing the study. No major alternatives would be recommended.	\$203,420			

SMART SCALE Round 5: Schedule



Hampton Roads District
September – December Activity

- Coordination/Meetings with Localities
- District Validation
- Congestion Scoring

Hampton Roads District

August 1 2022 – December 15, 2022 – Validation/Scoring

- Final Applications Submission-72 Pre-Applications
- 59 Applications were under review / validation.
- **55 Applications moving to scoring**
- **Application Amount: \$1.398B**
- **Smart Scale Funding Requested Amount: \$0.939B**
- **Local Commitment: \$0.444B**

January 2023

- Draft Staff Recommended Scenario / Release of project prioritization and base allocation scenario. Presentation to the CTB.

February to May 2023

- Board to develop potential revisions to staff recommended funding scenario
- Public hearings on staff recommended scenario and any potential revisions
- CTB meeting – Revised funding scenario developed

June 2023

- CTB meeting – Adoption of Six-Year Improvement Program

QUESTIONS?

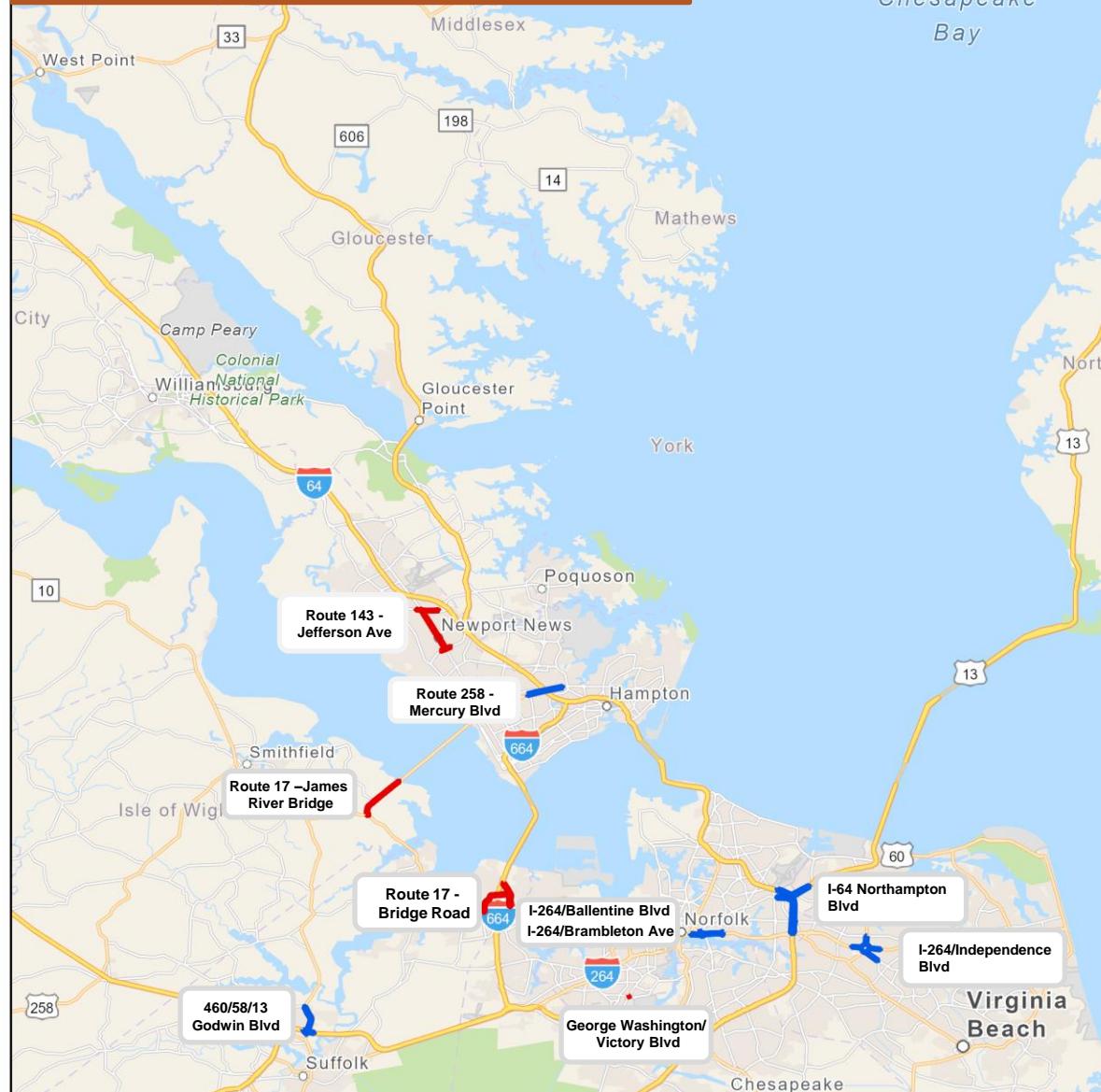
Back Up Information

District Leadership

<p>CHRISTOPHER G. HALL, PE DISTRICT ENGINEER</p>			
<p>CARLA WILLIAMS ADA BUSINESS</p>	<p>ALLISON RICHTER, PMP DEPUTY DISTRICT ADMINISTRATOR</p>	<p>MIKE DAVIS, PE, CCM DEPUTY DISTRICT ENGINEER</p>	<p>BRITTANY MCBRIDE NICHOLS ACTING COMMUNICATIONS MANAGER</p>
	<p>KEN REYNARD DISTRICT OPERATIONS DIRECTOR</p>	<p>TODD HALACY, PE ADA PLANNING AND INVESTMENT</p>	
	<p>BILL COLLIER ADA MAINTENANCE</p>	<p>BRUCE DUVALL, PE ADA ENGINEERING</p>	
	<p>CHRIS ISDELL ACCOMAC RESIDENCY ADMINISTRATOR</p>	<p>JOHN JACOBS, PE, PMP ADA CONSTRUCTION</p>	
	<p>PAUL MATTICKS FRANKLIN RESIDENCY ADMINISTRATOR</p>	<p>RICK CORREA, PE DIRECTOR MAJOR PROJECTS</p>	
	<p>ROSSIE CARROLL WILLIAMSBURG RESIDENCY ADMINISTRATOR</p>		
	<p>SHANNON TERNES, PE SPECIAL STRUCTURES ENGINEER</p>		

Hampton Roads STARS Projects

Completed
Ongoing



Chesapeake
Bay

Onancock

Route 13 –
Lankford Hwy

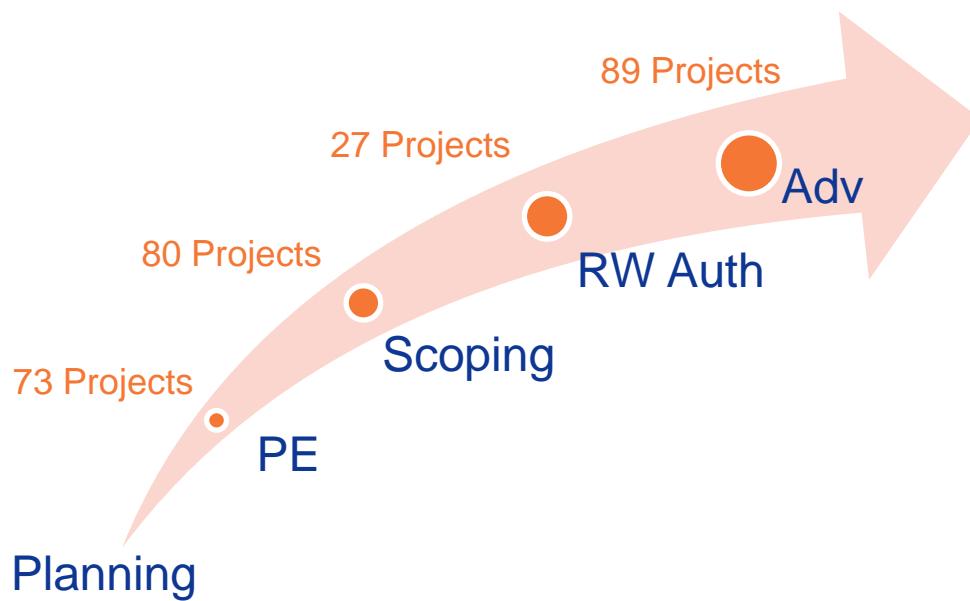


Hampton Roads Round 5 Smart Scale Applications



Program Overview

12-Month Forecast of Milestone Accomplishments



Total Value of Projects = \$539 M

Construction

ACTIVITY	VDOT MANAGED	LAP MANAGED	TOTAL
PE Auth	8	65	73
Scoping	13	67	80
RW Auth	9	18	27
Advertise	24	65 *	89
VALUE	\$318 M	\$221 M	\$539 M

* Includes 21 SGR Paving Projects

Projects Advancing to Advertisement

Calendar Year	Scheduled Advertisements VDOT Administered	Estimated Value	Scheduled Advertisements Locally Administered	Estimated Value	Scheduled Advertisements TOTAL	Total Value
2022	31	\$ 63 M	70	\$ 208 M	101	\$ 271 M
2023	15	\$ 314 M	60	\$ 264 M	75	\$ 578 M
2024	10	\$ 39 M	47	\$ 177 M	57	\$ 216 M
2025	1	\$ 6 M	40	\$ 205 M	41	\$ 211 M
2026	7	\$ 286 M	38	\$ 200 M	45	\$ 486 M



HREL Segment 4A/4B

Project Scope:

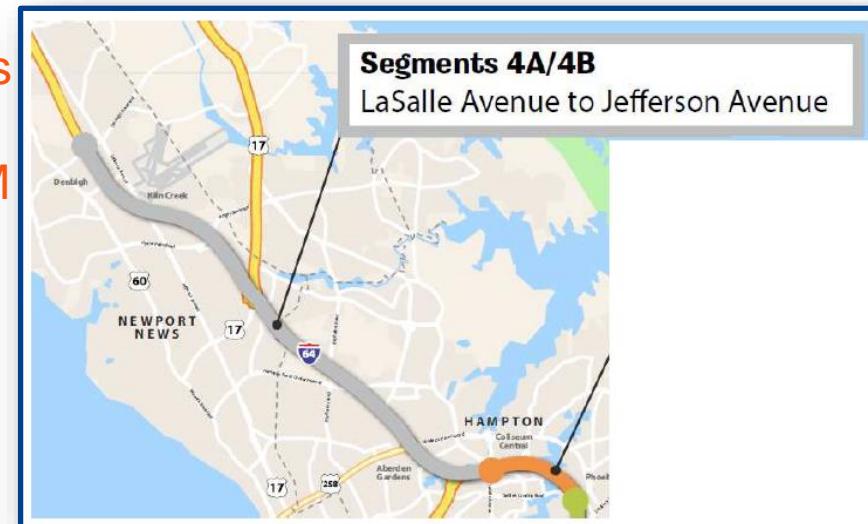
- Converts the 10.5-mile existing HOV lane in each direction into an Express Lane, from west of Jefferson Avenue to I-664.
- Converts 1.5 mile of a general purpose lane into an Express Lane from I-664 to LaSalle Avenue and widens this section of I-64 in each direction to create a buffer between the Express Lane and the General Purpose lane.

Project Status: Under Design

- Design-Bid-Build project
- Acquiring ROW, developing final plans
- Construction advertisement: TBD
- Estimated Project Cost: \$177M

Contract:

- Construction NTP: TBD
- Construction Completion: TBD



HREL Segment 4C

Project Scope:

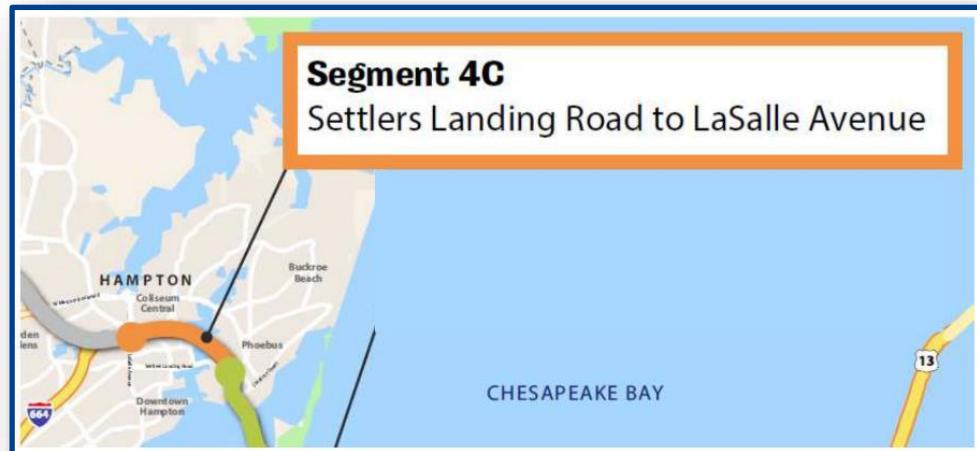
- Widening 2.2 miles of I-64 from 6 to 8 lanes, from LaSalle Avenue to Settlers Landing Road.
- The final roadway will have 2 general purpose lanes and 2 Express Lanes in each direction (to match the proposed roadway section of the widened Hampton Roads Bridge Tunnel).

Project Status: Under Construction

- Field work for Scope Validation ongoing
- Design is underway
- Permit acquisition process is underway

Contractor: Shirley-Branch, JV

- DB Contract: \$313.9M
- NTP: Aug. 2022
- Completion: Dec. 2026



HREL Segment 3 (HRBT Tolling Infrastr.)

Project Scope:

- The Hampton Roads Bridge-Tunnel (HRBT) Expansion project is widening 8.2 miles of I-64 from 4 to 8 lanes, from Settlers Landing Road to Patrol Road. It includes the construction of two new tunnels that will carry the 4 EB lanes, while the 4 WB lanes will travel through the existing tunnels.
- This Segment 3 project adds the tolling infrastructure within the HRBT project limits needed to operate the 2 new express lanes in each direction.

Project Status: Under Design

- Design-Build project
- Developing RFQ plans
- Construction advertisement: May 2024
- Estimated Project Cost: \$19M

Contract:

- Construction NTP: Jul. 2024
- Construction Completion: Feb. 2026



HREL Segment 1A

Project Scope:

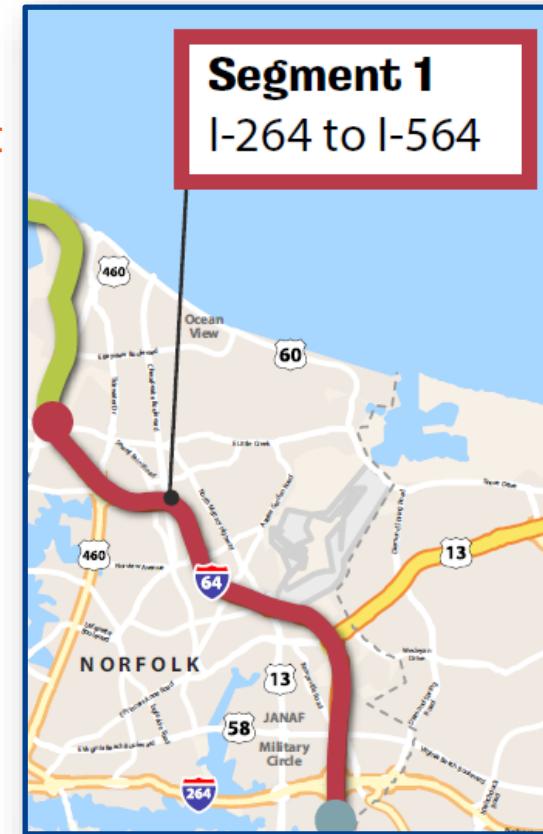
- Project extends from Patrol Road to Tidewater Drive (about 2 miles).
- Constructs the transition from the 4 express lanes being built in the HRBT segment to the existing reversible express lanes and to the 2 new inside Part Time Shoulder Express Lanes (PTSEL) – 1 in each direction.
- Each PTSEL opens to traffic when the Reversible Lanes are operating in the opposite direction.

Project Status: Competing Procurement

- Preparing for award, NTP, and kickoff meeting

Contractor: Allan Myers

- DB Contract: \$163.4M
- NTP: Dec. 2022
- Completion: Dec. 2025



HREL Segment 1B

Project Scope:

- Converts the 7-mile inside shoulder in each direction to a Part Time Shoulder Express Lanes (PTSEL), from Tidewater Drive to I-264.
- Each PTSEL opens to traffic when the Reversible Lanes are operating in the opposite direction.

Project Status: Under Design

- Design-Build project
- Developing RFQ plans
- RFQ: TBD
- RFP: TBD
- Estimated Project Cost: \$270M

Contract:

- Construction NTP: TBD
- Construction Completion: TBD

