



December 2024
Monthly Project Report
**I-64 HAMPTON ROADS
BRIDGE-TUNNEL
EXPANSION**

Report No. 69
Project No. 0064-M06-032



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Prepared by:

Virginia Department of Transportation

<https://hrbtexpansion.vdot.virginia.gov/>

1. Executive Summary

1.1 Overview

This report provides an overview of accomplishments and activities for the Hampton Roads Bridge-Tunnel Expansion Project from November 24, 2024 – December 14, 2024. The Design-Builder for the project is Hampton Roads Connector Partners (HRCP), a consortium that includes lead contractors Dragados, Vinci, Flatiron, and Dodin Campenon Bernard, with lead designers HDR and Mott MacDonald.

The current reporting period is aligned with HRCP's fiscal-month structure, on which the project's design-build schedule updates and invoiced construction progress are based. Reporting periods typically close on the Saturday on or preceding the 24th of each month.

During this reporting period, project accomplishments included the following:

- South Island Progress:
 - Installation of south portal internal walls 43% complete.
 - First plenum slab pour for South Portal.
- Tunnel Progress:
 - 9.5% complete for General Purpose (GP) tunnel excavation (761 ft out of 7,961 total ft excavated).
 - 48 concrete tunnel rings installed this period (107 out of 1,194 total rings installed).
- North Island Progress:
 - Excavation for the rectilinear approach 95% complete.
 - Base slab waterproofing for the rectilinear approach 74% complete.
 - First base slab pour for rectilinear approach.
- Landside Progress:
 - Began placing CTA at 4th View Street off-ramp eastbound.
 - Began placement of base mixed asphalt and installation of underdrain between Mason Creek Rd. and 1st View St.
- Marine Progress:
 - North Trestle westbound beams 49% complete.
 - South Trestle HOT caps 87% complete.

1.2 Priorities

VDOT's priorities for the Project are to achieve the following objectives:

- To provide mobility enhancements and travel-time reliability along the Project corridor.
- To minimize Project impacts on adjacent communities.
- To improve transportation operations and safety throughout the Project corridor.
- To develop public infrastructure in a financially responsible manner.

1.3 Key Updates

Project Schedule

The last approved schedule for the project is Update 62 (data date: September 22, 2024), and the schedule information in this report reflects this update. Schedule 62 was returned Approved as Noted on October 15, 2024. Schedule Updates 63 and 64 were not approved.

Contractual Substantial and Final Completion Dates remain unchanged.

- Substantial Completion on February 26, 2027
- Final Completion on August 27, 2027

However, in Update 62 the Projected Schedule Completion dates reflected:

- Substantial Completion on March 3, 2027
- Final Completion on September 1, 2027

Project Budget

The project budget summary below now includes all billed to date costs through December 14, 2024 and does not include forecasted cost outside of the reporting period.

- Project budget overview:

Current total project budget:	\$	3,935,451,641
Total costs to date:	\$	2,636,696,584
Remaining project budget:	\$	1,298,755,057

- Design-build contract overview:

Design-build contract original amount:	\$	3,299,997,227
Net change orders:	\$	11,552,724
Exercised Options:	\$	73,454,414
Material Price Adjustments to Date:	\$	113,936,628
Assessed Liquidated Damages (LD):	\$	(1,076,000)
Design-build contract sum to date:	\$	3,497,864,993
Expenditures to date:	\$	2,504,394,664
Remaining design-build contract amount:	\$	993,470,329

- Design-build progress to date:

Project Management:	89.4%
Design:	95.5%
Physical Construction Progress:	54.0%
Overall:	71.6%

Environmental

Environmental updates for this reporting period include:

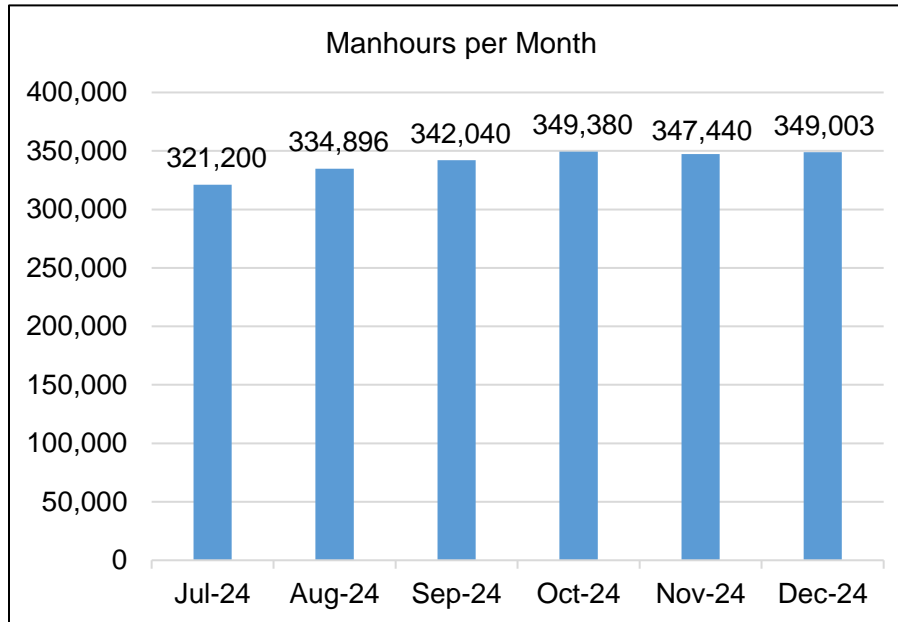
- HRCP provided weekly inspection report summaries to the U.S. Army Corps of Engineers (USACE).
- HRCP submitted to the U.S. Army Corps of Engineers documentation confirming materials to revegetate a portion of the temporary wetland impacts by the project.

Construction

Summary progress updates for this reporting period include:

- Landside Roadways
 - Continued installation of panels and columns for sound wall 4-1A near Mason Creek Road.
 - Completed installation of panels and moment slab at retaining wall 302 on Bayville Street between 13th View and eastbound off-ramp.
- Marine Works
 - Placed deck at South HOT trestle (1 placed this period).
- Tunnels and Islands
 - 9.5% complete for General Purpose (GP) tunnel excavation (761 ft out of 7,961 total ft excavated).
 - 14% complete for HT tunnel egress structure L-walls.
 - 33% complete for HT tunnel low point pump station concrete structures.
 - 40% complete for HT tunnel installation of egress footer.
- Landside Bridges
 - Completed installation of abutment A backwall at Patrol Road Bridge eastbound.
 - Completed installation of Stay-in-Place (SIP) deck formwork at Willoughby Bay Bridge eastbound.
 - Began work on abutments at Bayview Blvd. Bridge eastbound.

The number of construction manhours worked each month is provided by HRCP and is current as of December 31, 2024:



Project Manhours to Date:
13,875,971

Operations

The following operations activities took place during this reporting period:

- Slow rolls on I-64 westbound for temporary lighting installation and ITS installations.
- Short-term lane closures eastbound and westbound for sign structure foundation installation and roadway widening activities.

Quality

Quality updates for this reporting period include:

- VDOT continues to monitor HRCP's QA and QC material testing. VDOT also performed Independent Testing and Verification Testing on materials in accordance with VDOT requirements and coordinated with VDOT Materials Division for shop inspections as required.
- VDOT continues to engage HRCP in discussions on HRCP's implementation of their Quality Management System Plan (QMSP) and the effectiveness of the plan.

Safety

The following safety performance indicator information is provided by HRCP and is current as of December 31, 2024:

- Total Recordable Incidence Rate: 1.65 (National Average: 2.5)
- Lost Time Incidence Rate: 0.24 (National Average 1.6)

Civil Rights & DBE/SWaM Business Opportunities

HRCP has awarded **381** subcontracts, subconsultant agreements, and purchase orders to certified DBE/SWaM firms on the project. Contract awards continue this period to represent a total of **\$602.9 million** to certified DBE/SWaM firms.

Public Outreach & Media

Public outreach and project media updates provided by VDOT and HRCP for this reporting period include:

- HRBT Expansion team hosted open house events for the new Welcome Center.
- 2024 Year in Review timelapse videos of Mallory Street Bridge, North Island Receiving Pit, South Island Launch Pit, and Mason Creek Bridge were published.
<https://hrbtexpansion.vdot.virginia.gov/photos--videos/>
- HRBT Expansion Project December Newsletter was published.
<https://myemail.constantcontact.com/HRBT-Expansion-Project-Newsletter.htm>

2. Project Schedule

2.1 Schedule Status

The following table depicts key milestone dates for the project and has been updated as of the current approved schedule. The last approved schedule for the project is Update 62 (data date: September 22, 2024), and the schedule information in this report reflects this update.

Contractual Substantial and Final Completion dates remain unchanged from the Contract Amendment; February 26, 2027 and August 27, 2027 respectively. However, the Projected Schedule Update 62 Substantial and Final Completion reflect March 3, 2027 and September 1, 2027 respectively.

Schedule Update 63 and 64 have been reviewed by the Department and returned to HRCF unapproved.

	Contract Requirement	September 2024 Schedule	Actual
NTP		Sep 11, 2020	Sep 11, 2020
Substantial Completion	Feb 26, 2027	Mar 3, 2027	
Final Completion	Aug 27, 2027	Sep 1, 2027	

2.2 Longest Path

The longest path/critical path in Project Schedule Update 62 is driven by the following activities:

- TBM U-Turn on North Island
- TBM Break-in General Purpose Tunnel
- General Purpose Tunneling - Mining
- TBM disassembly in south pit
- South Island Tri-Cell Permanent Structures
- South Island Ventilation Building and Commissioning
- Commissioning – High Occupancy Toll and General Purpose Operational Testing
- Commissioning – Tunnel, Buildings, Roadways, and Trestles Integration Testing
- ITT Reversal
- Substantial Completion

2.3 Impact Analysis

Several elements of work are near-critical and could affect schedule performance if they are not addressed diligently. VDOT and HRCP are closely monitoring these activities. The following work elements have been identified as near critical, meaning there is less than one month of float in the current schedule.

South Portal – Work Below Grade

- South Portal Cell 1 Permanent Structures – Exterior Headwall & Roadway Slab
- South Portal Cell 2 Permanent Structures – Keystone Columns, Interior Walls, Roadway Level Slabs & Walls, Plenum Level Slabs & Walls, Roof Slabs
- South Portal Cell 3 Permanent Structures – Interior Walls
- South Portal - Cell 1 GP Permanent Structure Construction after TBM Extraction
- South Island Rectilinear Construction in South Island Expansion Cell 2 – Mud Slab & Waterproofing, Base Slabs, Exterior Walls & Waterproofing, Roadway Concrete

South Island – Work Above Grade

- South Island Ventilation Building – Phase 1 Construction
- South Island Generator, Fuel & Water Tanks Building
- South Island Buildings Final MEP Work, Commissioning and Functional Testing

Tunneling

- North Island U-Turn – Gantry 3 Umbilical's installation, Assembly quick unloading system, Reassembly Permanent Umbilical's installation
- TBM Slurry treatment plant – Disassembly, Demobilization
- High Occupancy Tunnel – Interior Structures – South to North Sta. 677+85 to 598+44
- General Purpose Tunnel – Interior Structures – North to South Sta. 598+44 to 677+85
- General Purpose Tunnel – Final MEP Construction

North Portal – Work Below Grade

- North Portal Cell 2 Permanent Structures – External Walls
- North Portal Cell 1 Permanent Structures – Headwall, External Walls, Internal Walls, Plenum Slabs, Roof Slabs

North Island – Work Above Grade

- North Island Ventilation Building – Phase 2 Construction
- North Island Buildings Final MEP Work, Commissioning and Functional Testing

Roadway and Land Bridges

- Roadway Segment 1 Phase 1A, 2, 2A, 2B – I-64 North Shore Roadway Widening & Asphalt, Lighting, Permanent Barrier Wall.
- Storm Drainage, Retaining Walls
- ITS Segment 1 Phases 2 & 2A – Installation
- Mallory Bridge Phase 2 – Demolition and Reconstruction

Trestles

- North Trestle Temporary Work Trestle N3 – Construction & Demolition
- North Trestle Temporary Work Trestle N4 – Construction
- North Trestle – Eastbound Zone 4 Construction, Westbound Zones 7, 8, & 9 Construction
- North Trestle Utilities – Eastbound Zone 3A, Westbound Phase 4 & 7
- North Trestle Demolition Existing Eastbound Trestle
- South Trestle – Zone 2 Final Median Barrier
- South Island Expansion – Marine Work – Rock Placement & Substructure

Commissioning and Integration

- Operational Testing – General Purpose Tunnel – Egress Corridor Pressurization System
- Commissioning Integration – Existing Westbound Tunnel, Existing Eastbound Tunnel, General Purpose Tunnel
- ITT Reversal – Preparation Work for Eastbound Tunnel Traffic Direction Change, Roadway Median Barrier Walls after EB ITT Reversal

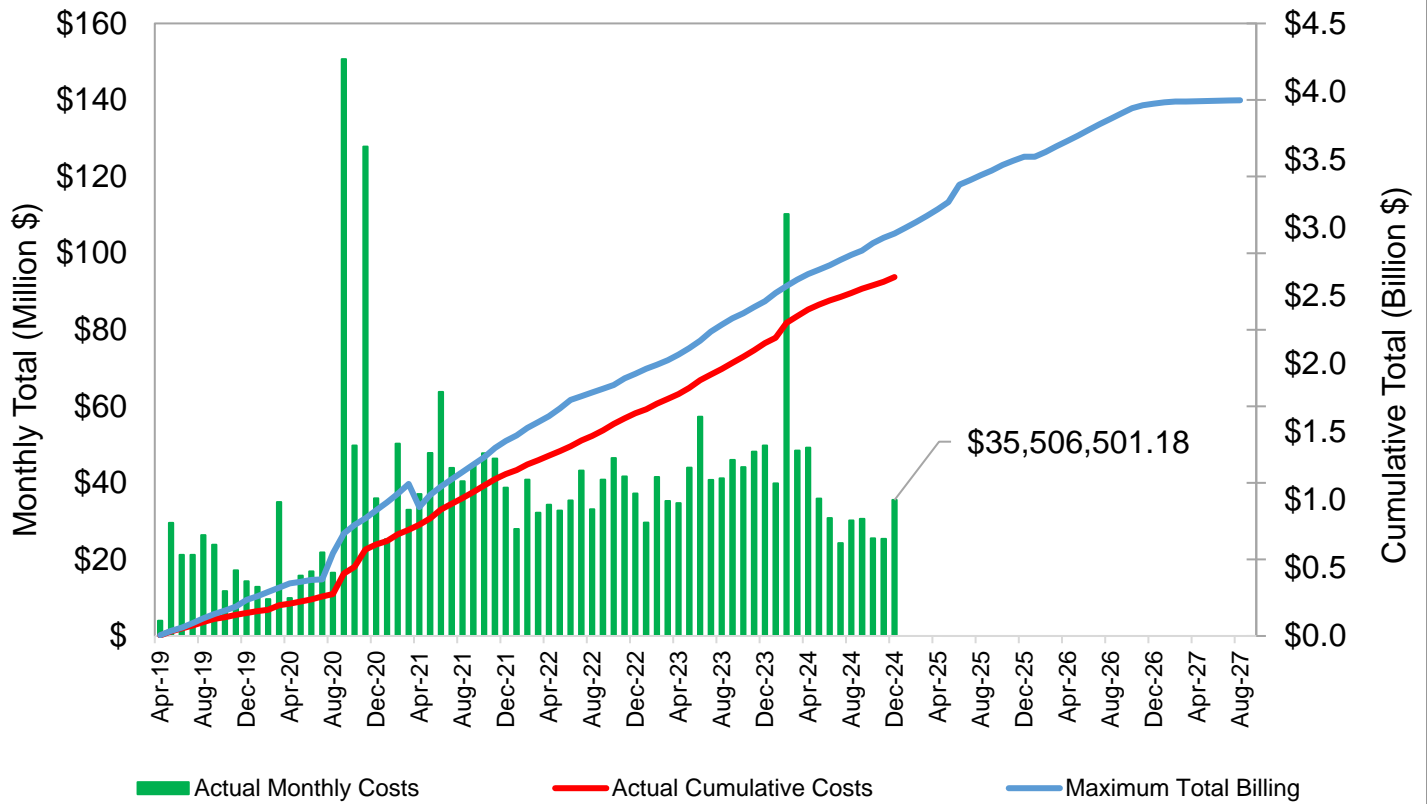
3. Project Budget

3.1 Overall Budget

The overall budget outlined in this report is based on the terms and conditions of Article 3 (Project Funding) in the Project Agreement for Funding and Administration (PAFA). The cost curve is based on Exhibit 6 of the Comprehensive Agreement (monthly maximum cumulative compensation amount).

	Amount Spent this Period:	Total Spent to Date:	Original Total Budget:	Total Remaining Budget:	Percent Spent To- date:
<u>Comprehensive Agreement</u>					
<i>Construction</i>	\$27,727,353.67	\$2,336,652,416.92	\$3,299,997,227.00	\$963,344,810.08	70.81%
<u>Owner Costs</u>					
<i>Administration</i>	\$2,244,479.40	\$118,742,982.24	\$122,000,000.00	\$3,257,017.76	97.33%
<i>Right of Way</i>	\$1,577.52	\$9,558,937.85	\$15,000,000.00	\$5,441,062.15	63.73%
<i>No-Excuses Incentive</i>	\$0.00	\$0.00	\$90,000,000.00	\$90,000,000.00	0.00%
<i>Contingency</i>	\$5,324,109.60	\$161,680,818.91	\$335,000,000.00	\$173,319,181.09	48.26%
<i>Bridge Repair Work Option</i>	\$208,980.99	\$10,061,427.90	\$73,454,413.96	\$63,392,986.06	13.70%
<u>Total</u>	\$35,506,501.18	\$2,636,696,583.82	\$3,935,451,640.96	\$1,298,755,057.14	67.00%

Overall Payments by Month* **

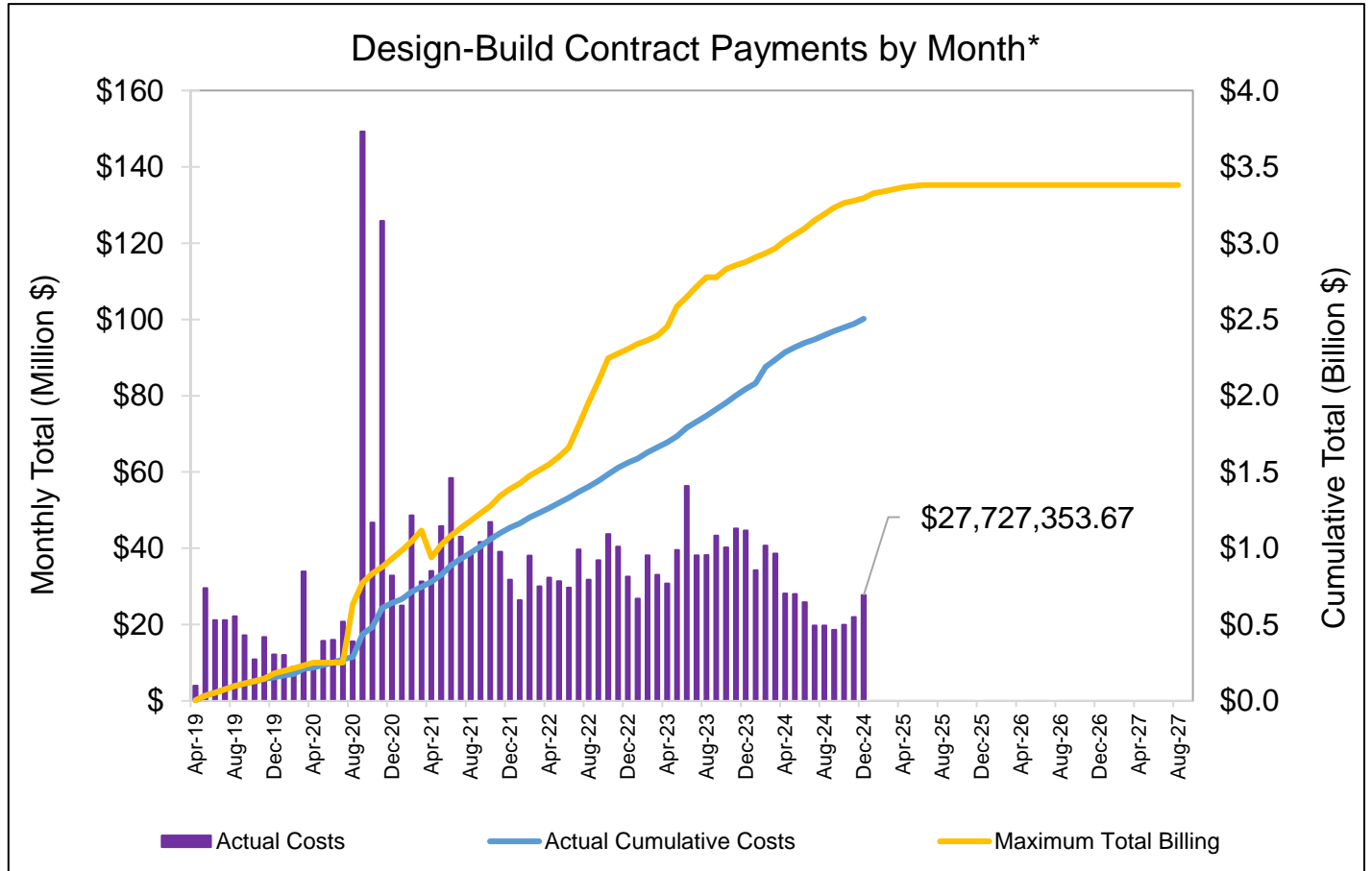


*The Maximum Total Billing showed an adjustment in May 2021 due to the executed Change Order #40 – Update Maximum Cumulative Cost Curve.

**The increase to monthly costs during February 2024 is primarily due to initial Material Price Adjustments associated with CA Amendment #1.

3.2 Design-Build Contract Cost Status

The budget and planned cost have been established based on the maximum cumulative compensation amount. For this period, the invoiced expenditures cover the activities noted in this report.



*The Maximum Total Billing showed an adjustment in May 2021 due to the executed Change Order #40 – Update Maximum Cumulative Cost Curve.

3.3 Budget by Funding Source

The budget for expenditures by funding source is based on the terms and conditions of Article 3 (Project Funding) and Exhibit 5 of the PAFA. This section outlines planned expenditures of both HRTAC and VDOT funds. The cost curve has been developed based on the monthly maximum cumulative compensation amount in the Comprehensive Agreement and will be updated as HRCF refines its design, construction means-and-methods, activity sequences, and project resourcing.

3.3.1 HRTAC and Smart Scale

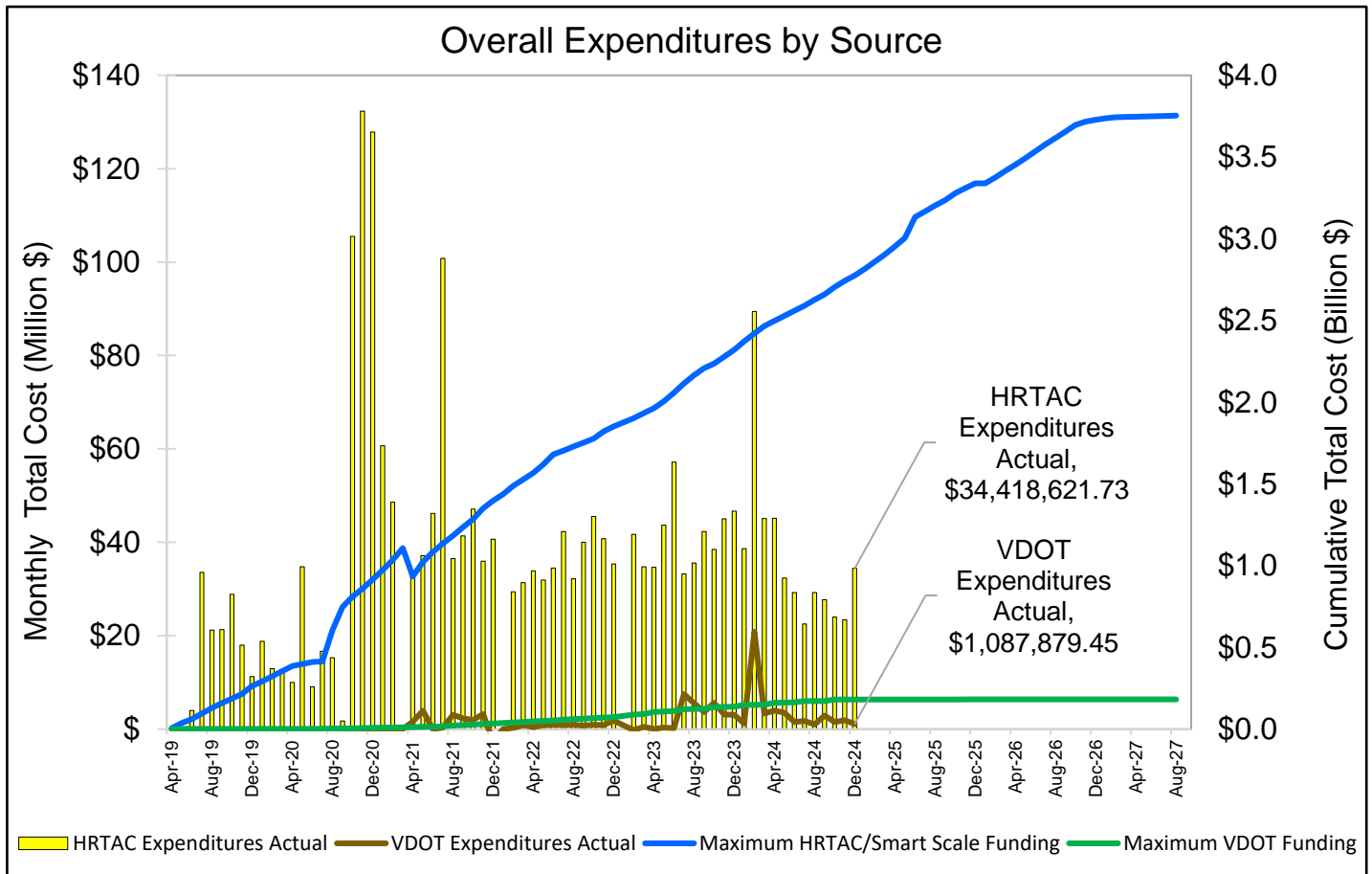
	Amount Spent this Period:	Total Spent to Date:	Original Total Budget:	Total Remaining Budget:	Percent Spent To-date:
<u>Comprehensive Agreement</u>					
<i>Construction</i>	\$27,027,741.92	\$2,283,045,980.17	\$3,204,569,251.00	\$921,523,270.83	71.24%
<u>Owner Costs</u>					
<i>Administration</i>	\$2,067,883.52	\$113,231,382.39	\$118,472,054.00	\$5,240,671.61	95.58%
<i>Right of Way</i>	\$1,577.52	\$9,558,937.85	\$15,000,000.00	\$5,441,062.15	63.73%
<i>No-Excuses Incentive</i>	\$0.00	\$0.00	\$90,000,000.00	\$90,000,000.00	0.00%
<i>Contingency</i>	\$5,321,418.77	\$133,638,839.78	\$325,428,276.00	\$191,789,436.22	41.07%
<u>Total</u>	\$34,418,621.73	\$2,539,475,140.19	\$3,753,469,581.00	\$1,213,994,440.81	67.66%

3.3.2 VDOT

	Amount Spent this Period:	Total Spent to Date:	Original Total Budget:	Total Remaining Budget:	Percent Spent To-date:
<u>Comprehensive Agreement</u>					
<i>Construction</i>	\$699,611.75	\$53,606,436.75	\$95,427,976.00	\$41,821,539.25	56.17%
<u>Owner Costs</u>					
<i>Administration</i>	\$176,595.88	\$5,511,599.85	\$3,527,946.00	(\$1,983,653.85)*	156.23%
<i>Right of Way</i>	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
<i>No-Excuses Incentive</i>	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
<i>Contingency</i>	\$2,690.83	\$28,041,979.13	\$9,571,724.00	(\$18,470,255.13)**	292.97%
<i>Bridge Repair Work Option</i>	\$208,980.99	\$10,061,427.90	\$73,454,413.96	\$63,392,986.06	13.70%
<u>Total</u>	\$1,087,879.45	\$97,221,443.63	\$181,982,059.96	\$84,760,616.33	53.42%

* The VDOT Administration costs are due to higher Owners Costs for South Trestle work oversight, bird management, bridge repair oversight, and Visitor Center Costs.

** The VDOT Contingency costs are primarily due to the VDOT portion of the CA Amendment material price adjustments.



3.4 Contingency

3.4.1 Contract Changes

	Description	Date	Value	Time
CO-1	VDOT's Acquisition of Willoughby Staging Area	2/11/2020	\$ (3,000,000.00)	0 days
CO-2	Minor Revisions to Technical Requirements	3/18/2020	\$ -	0 days
CO-3	Tunnel Approach Structure Support of Excavation Requirements Refinement	4/28/2020	\$ -	0 days
CO-4	Dispute Resolution Board (DRB) Allowance	5/12/2020	\$ 200,000.00	0 days
CO-5	North Island Armor Stone Value Engineering Change Proposal (VECP)	4/28/2020	\$ (2,011,117.50)	0 days
CO-6	Exit Ramp at Bayville Avenue	5/29/2020	\$ 46,906.29	0 days
CO-7	Minor revisions to the Technical Requirements	7/16/2020	\$ -	0 days
CO-8	Zero Spread Drainage	9/16/2020	\$ 3,239,212.24	0 days
CO-9	Roadway and Bridge Scope Validation Issues	9/4/2020	\$ 15,516,248.00	0 days
CO-10	Slurry Walls as Permanent Structures	8/28/2020	\$ -	0 days
CO-12	Road and Bridge Lighting Requirements	8/27/2020	\$ 2,495,000.00	0 days
CO-13	Bridge Repair Work-Exercise Option	10/9/2020	\$ 73,454,413.96	0 days
CO-14	Trestle Barrier Form Liner Elimination	7/29/2020	\$ (99,571.80)	0 days

CO-15	South Island Ground Improvement Value Engineering Change Proposal (VECP)	9/17/2020	\$ (5,338,000.00)	0 days
CO-16	Navy Security Fencing Design	7/15/2021	\$ 150,000.00	0 days
CO-17	Westbound ITT Reduced Instrumentation	10/30/2020	\$ (184,277.50)	0 days
CO-18	Willoughby Bay Bridge Barriers	9/10/2020	\$ -	0 days
CO-19	GeoPak Version Software Updates	8/3/2020	\$ -	0 days
CO-21	Material Price Adjustment for Asphalt Materials	2/26/2021	\$ -	0 days
CO-22	South Island Asbestos Conduits	9/16/2020	\$ 81,973.93	0 days
CO-23	Island & Tunnel Baseline Monitoring Requirements	7/22/2020	\$ -	0 days
CO-24	Construction Water Supply	9/10/2020	\$ (609,157.27)	0 days
CO-25	Solids Handling Pumps Requirements	11/12/2020	\$ -	0 days
CO-26	Mass Notification Independent System Requirements	11/12/2020	\$ -	0 days
CO-27	Fixed Fire Fighting System Requirements	11/16/2020	\$ -	0 days
CO-28	HOT Lane Shoulder Width	3/29/2021	\$ 2,950,000.00	0 days
CO-30	Willoughby Bay Bridges Fender & Lighting Replacement	2/12/2021	\$ 1,495,000.00	0 days
CO-31	Builder's Risk Insurance	10/21/2021	\$ 1,500,000.00	0 days
CO-32	VCU Fisheries and SAV Mitigation Plan	4/16/2021	\$ (1,042,144.00)	0 days
CO-33	Tunnel Finishes Height	12/18/2020	\$ -	0 days
CO-38	H-Piles in Aggressive Soils	12/18/2020	\$ (47,541.00)	0 days
CO-39	Re-use of Existing Drainage Pipes	4/20/2021	\$ (100,984.25)	0 days
CO-40	Update Maximum Cumulative Cost Curve	7/15/2021	\$ -	0 days
CO-41	Wetland Mitigation Costs	4/26/2021	\$ 3,503,400.00	0 days
CO-42	Navy Gate 22 Drainage Design and Construction	8/19/2022	\$ 1,524,940.16	0 days
CO-43	Hybrid Trestle Beam Design	7/2/2021	\$ -	0 days
CO-44	SCADA Control of Deluge Valves	7/27/2021	\$ -	0 days
CO-45	HRCF Project Executive/Representative Change	5/24/2021	\$ -	0 days
CO-46	Tunnel Sprinkler Heads Material Change	7/28/2021	\$ -	0 days
CO-47	Evans Street Approach Slab Settlement Repair	6/22/2022	\$ 34,082.83	0 days
CO-48	Scope Reduction – City of Hampton	8/24/2022	\$ (6,072,941.31)	0 days
CO-49	HRCF Senior Representative Change	7/2/2021	\$ -	0 days
CO-50	Change in Precast Form Tolerance & Curing Methods	1/10/2022	\$ -	0 days
CO-53	Sound Wall Quantity Reconciliation	12/6/2021	\$ (16,561,217.63)	0 days
CO-54	4th View Interchange Design and Construction Drainage	8/17/2022	\$ 984,598.45	0 days
CO-55	HREL Overlap Scope Change in Norfolk - Proposal Costs	8/12/2022	\$ 157,237.34	0 days
CO-56	Building Code Changes - Design	10/21/2022	\$ 2,186,150.00	0 days
CO-57	Design-Builder's Senior and Representative Changes	1/11/2022	\$ -	0 days
CO-58	Scope Reduction – City of Norfolk	5/16/2023	\$ (18,739,670.82)	0 days
CO-59	Fisheries and SAV Mitigation Plan - VCU	6/16/2022	\$ (70,238.22)	0 days
CO-60	Navy Fence (remaining design costs)	8/17/2022	\$ 180,142.36	0 days
CO-61	HRELN Tie-In Zero Drainage Spread	11/29/2022	\$ 2,965,469.69	0 days
CO-62	SIP Forms for Marine Bridges	6/28/2022	\$ -	0 days
CO-63	Bridge Repair Item – Insert Plates - New Unit Prices	8/30/2023	\$ -	0 days
CO-64	Tolling Infrastructure Proposal Costs	10/21/2022	\$ 645,242.40	0 days
CO-65	Snowplowable Raised Pavement Markers (SRPMs)	3/3/2023	\$ 256,174.09	0 days

CO-66	Additional Design Costs – CSPM Code Changes and Island Security Fencing - Unilateral	8/14/2024	\$ 3,541,051.00	0 days
CO-68	Buoyancy Calculations	3/3/2023	\$ -	0 days
CO-69	Change of Department's Senior Representative	4/6/2023	\$ -	0 days
CO-70	Reuse of Existing Pipe 29-26 to 29-31	7/26/2023	\$ (117,734.20)	0 days
CO-71	Addendum to WO-24 Water Supply Line	4/25/2023	\$ -	0 days
CO-72	Bay Avenue Approach Ramp	6/29/2023	\$ 120,053.43	0 days
CO-73	Pile Jackets – Additional Chloride Sampling/Testing	1/10/2024	\$ 118,665.12	0 days
CO-74	South Island – Asbestos Pipes	7/7/2023	\$ 128,883.51	0 days
CO-76	Northern Long-Eared Bat (NLEB) Consultation Process	5/1/2024	\$ 45,463.00	0 days
CO-77	Scope Reduction – Segment 5 ITS Trunk Line	11/12/2023	\$ (153,079.38)	0 days
CO-78	Steel Escalation Price Adjustments	9/19/2023	\$ 2,835,839.00	0 days
CO-79	WB Willoughby Bay Bridge Obstructions	1/10/2024	\$ 50,682.44	0 days
CO-80	Marine Fleet Safe Harbor – Hurricane Ian	1/10/2024	\$ 452,075.00	0 days
CO-81	3-Coat Paint System for Steel on Applicable Bridges	1/10/2024	\$ 140,000.00	0 days
CO-82	CA Amendment Disputed Items Resolution	3/21/2024	\$ 9,910,582.34	0 days
CO-83	Marine Fleet Safe Harbor – Tropical Storms Idalia/Ophelia	1/11/2024	\$ 200,262.16	0 days
CO-84	Bird Management Outside of South Island 2023	2/29/2024	\$ 458,375.51	0 days
CO-85	DRBISC #08 SMOT WB Rock Removal	4/3/2024	\$ 1,135,513.87	0 days
CO-86	OHSS No. 36 Foundation – Archaeologist Assessment	2/20/2024	\$ 14,641.81	0 days
CO-87	Traffic IIM-TE-395	8/12/2024	\$ 787,510.46	0 days
CO-88	Bird Management 2024 to Project Completion	5/1/2024	\$ 2,369,359.64	0 days
CO-91	DRBISC #08 ST Zone 6 Rock Removal	5/8/2024	\$ 1,710,784.92	0 days
CO-93	Construction General Permit - 2024	10/15/2024	\$ 411,136.65	0 days
CO-94	HRCP Representative Change	6/11/2024	\$ -	0 days
CO-97	Security Fence	11/8/2024	\$ 863,079.73	0 days
CO-98	DRBISC #12 SMOT WB Abutment	11/26/2024	\$ 294,661.79	0 days
TOTAL			\$ 85,007,138.24	0 days

3.4.2 Material Price Adjustments

This progress period included the following material price adjustments:

Material	Current Amount	Total to Date	Material Price Adjustment Through*
Per Contract Adjustments (Federally Eligible Costs)			
Exhibit 9 - Asphalt	\$19,872.32	\$235,288.58	October 2024
Exhibit 10 - Fuel	\$11,929.96	\$566,944.00	October 2024
Exhibit 11 - Steel	\$82,944.52	\$6,947,272.49	June 2024
Total	\$114,746.80	\$7,749,505.07	
Per CA Amendment Adjustments (Non-Federally Eligible Costs)			
Exhibit 9 - Asphalt	\$0.00	\$0.00	October 2024
Exhibit 10 - Fuel	\$270.74	\$41,934.18	October 2024
Exhibit 11 - Steel	\$131,650.53	\$9,784,437.94	June 2024
Exhibit 10A – Fuel (Atypical Items)	\$6,506.14	\$1,535,608.79	October 2024
Exhibit 15A – Index-Adjusted Commodities	\$1,090,933.05	\$70,437,246.71	June 2024
Exhibit 15B – Escrow-Adjusted Commodities	\$3,650,236.27	\$24,387,894.96	October 2024
Total	\$4,879,596.73	\$106,187,122.58	

*Steel price adjustments are based on Federal index data finalized 4 months after each period.

4. Environmental

The following environmental management activities occurred during this reporting period:

Permits:

- HRCP provided weekly inspection report summaries to the U.S. Army Corps of Engineers (USACE).
- HRCP submitted documentation to the U.S. Army Corps of Engineers on December 2, 2024, confirming materials used to revegetate temporary wetland impact area T-220.
- HRCP submitted a tank registration package to the Department of Environmental Quality (DEQ) for Above-ground Storage Tanks (AST's) on the project. DEQ responded on December 3, 2024, with a Facility Identification Number for the 13 AST's along with procedures for tank closures when it becomes necessary.

Marine Mammal Protection:

- No new activities.

Bird Mitigation:

- No new activities.

Programmatic Agreement:

- No new activities.

Archeological Discoveries:

- No new activities.

Protected Species:

- No new activities.

5. Construction

The figure below illustrates a map of the project corridor. The project is further categorized into four construction areas.

- Construction Area 1 is composed of landside road work.
- Construction Area 2 is composed of marine work, including the North Trestle, South Trestle, and island expansions.
- Construction Area 3 is composed of tunnel and island site work.
- Construction Area 4 is composed of landside road and bridge work.



5.1 Construction Area 1: Landside Roadways

I-64 (Segment 1):

- Continued installation of sidewalk and approach grade work at retaining wall 105 near abutment B at Mallory Street Bridge.
- Continued Ramp E and Ramp H asphalt work for Mallory Street Phase 1 bridge shift.
- Continued excavation at retaining wall 103 near abutment A at Mallory St.

I-64 (Segment 3):

- Continued installation of panels and moment slab at retaining wall 302 on Bayville Street between 13th View and eastbound off-ramp.
- Continued drainage work at retaining wall 302 near Bayville St. eastbound.
- Continued installation of moment slab at retaining wall 306 near abutment A at Willoughby Bay Bridge eastbound.
- Continued auger cast piles at retaining wall 309 near 4th View St.
- Continued excavation of retaining wall 307 along Bayville St.
- Began placing CTA at 4th View Street off-ramp eastbound.

I-64 (Segment 4):

- Continued installation of coping and moment slab at retaining wall 407 between Bayview Bridge and Oastes Creek Bridge.
- Continued installation of panels and columns for sound wall 4-1A near Mason Creek Road.
- Continued drainage work at retaining wall 501 at Abutment B at Patrol Road Bridge eastbound.
- Continued installation of panels at retaining wall 406 near W. Evans St.
- Began placement of base mixed asphalt and installed underdrain between Mason Creek Rd. and 1st View St.



◀ **Retaining Wall 302 on Bayville Street**
Moment slab concrete placed

5.2 Construction Area 2: Marine Trestle Work

North Trestle:

- **Westbound Trestle**
 - 12 beams placed during this period (136 out of 280 total beams placed).
 - 1 pile driven during this period (145 out of 261 total piles driven).

South Trestle:

- **HOT Lanes Trestle**
 - 1 deck placed during this period (7 out of 16 total decks placed).
 - 2 caps/abutments placed during this period (14 out of 16 total caps/abutments placed).



◀ **North Trestle
Westbound**
Installing Span 16
girders

5.3 Construction Area 3: Tunnels and Islands

South Island:

- 43% complete for south portal internal walls.
- 4% complete for south portal plenum slabs.

North Island:

- 95% complete for rectilinear approach excavation.
- 74% complete for rectilinear approach base slab waterproofing.
- 77% complete for rectilinear approach upper and lower mud slabs.
- 14% complete for rectilinear approach base slab.

Tunnel:

- 9.5% complete for General Purpose (GP) tunnel excavation (761 ft out of 7,961 total ft excavated).
- 48 concrete tunnel rings installed this period (107 out of 1,194 total rings installed).
- Continued work on concrete tunnel egress structures in the HT Tunnel.
- 40% complete for HT tunnel installation of egress footer.
- 14% complete for HT tunnel installation of egress structure L-walls.
- 33% complete for HT tunnel low point pump station concrete structures.
- 81% complete for HT tunnel stage 1 installation of cement-treated base (CTB) ballast for tunnel roadway.



◀ **South Island**
Rebar for plenum
slab in Cell 3 east.

5.4 Construction Area 4: Landside Bridges

Mallory Street Bridge:

- Continued excavation at Abutment A.

Bayville/13th View Street Bridge:

- Began repairs to new backwall for abutment A for eastbound widening.

Willoughby Bay Bridge:

- Continued repair/rehabilitation of existing westbound bridge.
- Continued installation of precast caps for westbound widening.
- Completed installation of stay-in-place (SIP) deck formwork for eastbound widening.
- Continued installation of trestle at abutment A for westbound widening.
- Continued installation of SIP deck formwork for westbound widening.
- Began pile driving at Pier 5 for westbound widening.
- Began girder installation at Spans 45 and 48 for westbound widening.
- Completed concrete installation at Spans 19 through 24 for eastbound widening.

4th View St. Bridge:

- Continued installation of pads and beam seats for eastbound widening.
- Continued installation of jacking beams for eastbound widening.
- Continued installation of SIP deck formwork for eastbound widening.

Mason Creek Bridge:

- Continued repair/rehabilitation of existing eastbound and westbound bridges.
- Continued parapet work and closure pours.

1st View St. Bridge:

- Continued repair/rehabilitation of existing eastbound bridge.

Bay Avenue Bridge:

- Continued installation of mainline SIP deck forms and overhangs for eastbound widening.

Evans St. Bridge:

- Continued repair/rehabilitation of existing substructure for eastbound bridge.
- Continued installation of footing and backwall at Abutment B for eastbound bridge.

Bayview Blvd. Bridge:

- Continued repair/rehabilitation of existing substructure for eastbound bridge.
- Began work on abutments for eastbound bridge.

Oastes Creek Bridge:

- Continued installation of sound wall for eastbound widening.

Patrol Road Bridge:

- Continued repair/rehabilitation of existing substructure for eastbound bridge.
- Continued installation of jacking beams for eastbound widening.
- Completed installation of Abutment A backwall for eastbound widening.



◀ **Patrol Road Bridge
Eastbound**
Abutment A slope
protection



◀ **Willoughby Bay Bridge
Eastbound**
Stay-in-Place (SIP)
installation

6. Operations

Operations activities include shoulder and lane closures, creation and maintenance of Intelligent Transportation System (ITS) architecture, other maintenance within the corridor, coordination with existing VDOT Operations, and communication with the Hampton Roads Harbor Tunnels (HRHT) facility staff. The following operations activities occurred during this reporting period:

Short-Term Lane Closures:

- Willoughby Bay Bridge, North Trestle, and South Trestle eastbound and westbound to facilitate beam placement as well as concrete placement for piles, caps, and decks.
- Striping maintenance throughout project corridor.
- Lane closures eastbound and westbound for sign structure foundation installation and roadway widening activities.
- Slow rolls westbound for temporary lighting installation and ITS installations.

Long-Term Lane Closures:

- Bay Ave. in Norfolk to facilitate staging-area access for widening Oastes Creek Bridge.
- Bayview Blvd. in Norfolk and Mallory St. in Hampton to facilitate bridge widening.
- West Ocean Ave. in Norfolk traffic shift to facilitate bridge widening.
- 4th View St. in Norfolk traffic shift to facilitate bridge widening.
- Patrol Rd. in Norfolk traffic shift to facilitate bridge rehabilitation and widening.
- 13th View St. underpass beneath I-64 reduced to one lane to facilitate utility work. Traffic is controlled by temporary automatic one-lane, two-way traffic control signal.

Detours:

- Temporary detour of W. Bay Ave. eastbound on ramp for bridge widening activities.
- Long-term detour on Mason Creek Road to facilitate bridge widening.

Intelligent Transportation System (ITS):

- Installation of ITS, Medium Voltage power, and private utility conduit on South Trestle and landside.
- Installation of ITS devices on overhead sign structures.
- Relocation of RCU-44 at westbound South MOT Trestle.

Overhead Sign Structures:

- Foundation installation.

Roadway Lighting:

- Continued permanent lighting installation on Willoughby Bay Bridge and Oastes Creek Bridge.
- Continued temporary lighting installation at South MOT bridge.
- Addressing maintenance of temporary lighting throughout the corridor.

7. Quality

Quality updates for this reporting period include:

Construction Quality Management Plan (CQMP) Updates:

- VDOT reviews CQMP updates as part of final “Released for Construction” (RFC) design packages and “Notice of Design Change” (NDC) packages. Two packages were submitted this period, they are both under current review.

Independent Assurance (IA) Testing Activities:

- VDOT continues to monitor HRCP’s QA and QC material testing. VDOT also performed Independent Testing and Verification Testing on materials in accordance with VDOT requirements and coordinated with VDOT Materials Department for shop inspections as required. This testing included oversight of the HRCP precast yard in Chesapeake.

Quality Management System Plan (QMSP):

- VDOT continues to engage HRCP in discussions on HRCP’s implementation of their QMSP and the effectiveness of the plan.

Material Book Records:

- VDOT conducted a monthly review of the current records, and HRCP is responding to audit comments provided by VDOT. Review of the Material Book records includes confirming that HRCP is completing the proper documentation for Buy America compliance. VDOT has completed the full audit of thirty-six volumes of Material Book records and is currently auditing two additional volumes of Material Book records.

Routine Quality Activities:

- VDOT’s quality team conducted reviews of written deficiency notices (WDNs), non-conformance reports (NCRs), root cause analyses and dispositions of deficiencies, with 22 NCRs reviewed for concurrence during this period. VDOT conducted reviews of QA and QC records for accuracy and quality issues and coordinated documentation reviews through VDOT’s Material Department. VDOT also continues a review of current construction quality by performing inspections based on VDOT’s Construction Quality Improvement Program (CQIP).

8. Safety

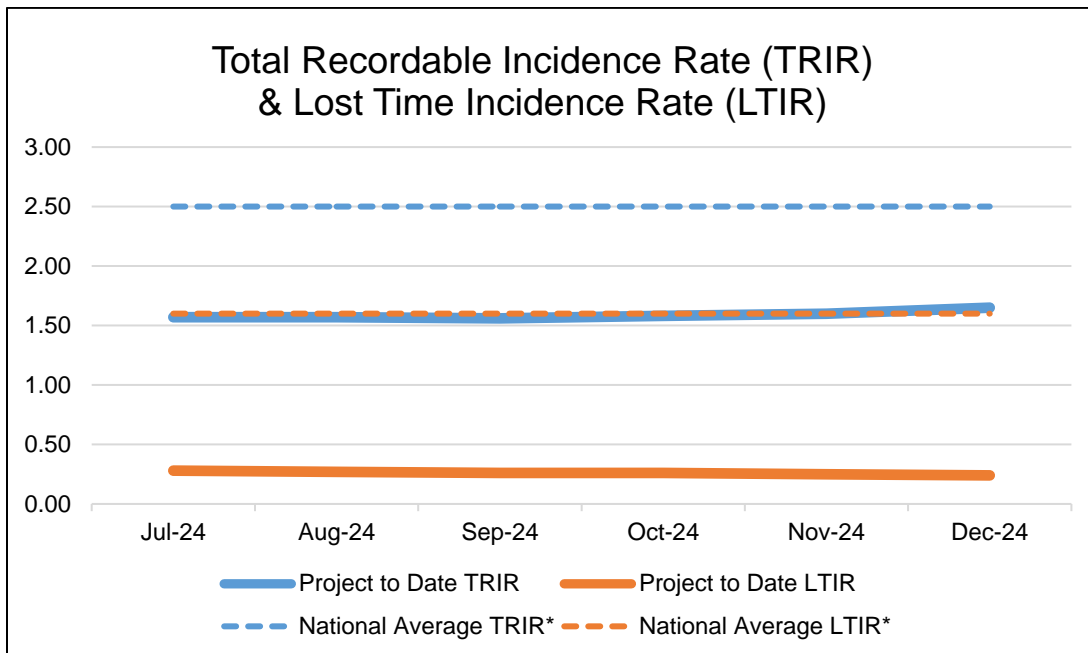
Safety procedures and activities during this reporting period include:

Safety Activities:

- HRCP began a safety incentive program for employees.
- HRCP continued Craft Training for field employees.

Safety Performance Indicators:

- The following safety performance indicator information is provided by HRCP and is current as of December 31, 2024:



**National averages are from the Bureau of Labor Statistics, US Department of Labor – 2021 Data for Construction Industry, Published November 9, 2022.*

9. Civil Rights & DBE/SWaM Business Opportunities

To date, HRCP has awarded **381** subcontracts, subconsultant agreements and purchase orders to certified DBE/SWaM firms. The total contract award is at **\$602.9 million** to date. A total of **\$488 million** has been paid for work completed by DBE/SWaM firms.

Compliance Activities:

- During this reporting period, HRCP and VDOT met on December 17, 2024, for its monthly Civil Rights Workgroup Meeting. The focus of the discussion included the Design-Builder's current challenges with subcontract payment disputes. Vendor payment processing has improved but further streamlining efforts are needed.

Workforce Development Activities:

- HRCP's On-the-Job Training Program currently has 40 graduates, achieving 50% of the contract goal of 80. There are 15 active enrollees as of this reporting period, and 2 candidates are under review by VDOT to complete the program.
- Workforce Participation: Participation exceeds contract goals for both Minorities and Women. Minorities represent 71.32% (contract goal of 27.1%), and Women represent 10.23% (contract goal of 6.9%).

Business Development Activities:

- HRCP's participation in Christopher Newport University's SWaM Outreach in November resulted in follow-up meetings with the Civil Rights and Procurement Teams this period, to assist firms in learning more about opportunities on the Tunnel Buildings Packages. The complexity of the scope of work and requirements on this procurement may be contributing to low interest from small businesses. VDOT and HRCP will have future discussions about Tunnel Buildings Packages opportunities.

10. Public Outreach & Media

The following public outreach and project media activities occurred in this period:

Public Outreach

- December 4, 2024 – HRBT Expansion team hosted the open house event for the new Welcome Center, with members of the media in attendance.
- December 13, 2024 – VDOT Hampton Roads District Engineer Christopher Hall and HRBT Expansion Project Director Ryan Banas hosted a site visit for members of the Naval Facilities Atlantic Civil Engineers Corps.
- December 14, 2024 – HRBT Expansion Communications team hosted a weekend Welcome Center open house.

Media

- December 1, 2024 – (iHeart Radio Hampton Roads Podcast) Transforming Hampton Roads: Inside the Engineering Marvel of the Hampton Roads Bridge Tunnel Expansion Project <https://www.iheart.com/podcast/263-joe-flanagans-hampton-road-242059073/>
- December 2, 2024 – (WAVY) HRBT Expansion Project Celebrates World Tunnel Day <https://www.wavy.com/traffic/hrbt-expansion-project/hrbt-expansion-project-celebrates-world-tunnel-day/>
- December 3, 2024 – (HRBT Expansion Project) 2024 Year in Review timelapse videos of Mallory Street Bridge, North Island Receiving Pit, South Island Launch Pit, and Mason Creek Bridge. <https://hrbtexpansion.vdot.virginia.gov/photos--videos/>
- December 4, 2024 – (WVEC) VDOT hosts grand opening for the Hampton Roads Bridge Tunnel welcome center <https://www.13newsnow.com/article/travel/grand-opening-for-hampton-roads-bridge-tunnel-welcome-center>
- December 4, 2024 – (WTKR) HRBT Expansion Project Welcome Center opens in Norfolk <https://www.wtkr.com/transportation/hrbt-expansion-project-welcome-center-opens-in-norfolk>
- December 4, 2024 – (WAVY) New HRBT Welcome Center bores through tunnel history <https://www.wavy.com/traffic/hrbt-expansion-project/new-hrbt-welcome-center-bores-through-tunnel-history/>
- December 9, 2024 – (Facebook) Virginia Love Signs (LOVEworks) Facebook Group shared photos of the HRBT LOVE sign and Welcome Center open house <https://www.facebook.com/groups>
- December 12, 2024 – (HRBT Expansion Project) HRBT Expansion Project December Newsletter <https://myemail.constantcontact.com/HRBT-Expansion-Project-Newsletter.htm>

Lane Closures/Advisories

- November 27, 2024 – Weekly Lane Closure Report
- December 6, 2024 – Weekly Lane Closure Report
- December 13, 2024 – Weekly Lane Closure Report

Visit our website to view more information:

<https://hrbtexpansion.vdot.virginia.gov/>