

October 2019
Project Report

I-64 HAMPTON ROADS BRIDGE-TUNNEL EXPANSION

Proj. No. 0064-M06-032
Report #7



1. Executive Summary

1.1 Reporting Period

This report, prepared by the Virginia Department of Transportation (the Department), provides an overview of accomplishments and activities for the Hampton Roads Bridge-Tunnel Expansion project (the Project) from September 22, 2019 – October 19, 2019. The Design-Builder for the Project is Hampton Roads Connector Partners (HRCP), a consortium that includes Dragados, Vinci, Flatiron, and Dodin Campenon Bernard.

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 close on the Saturday on or preceding the 24th of each month.

1.2 Project Accomplishments

During this reporting period, the following project accomplishments were recorded:

- HRCP met with the United States Coast Guard (USCG) and members of the Virginia Maritime Association (VMA) on October 17, 2019, to gain clarity on specifics needed to support Section 408 application materials slated for submittal in late November 2019.
- The USACE issued their Public Notice (PN) on September 24, 2019 for the proposed HRBT improvements and impacts, as described in the JPA. The PN period will conclude on October 24, 2019.

1.3 Priorities

The Department'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

1.4 Schedule

Schedule updates for this reporting period include:

- Limited Notice to Proceed 1 (LNTP1) completion milestone was achieved on September 24, 2019.
- LNTP2 and LNTP3 were issued to HRCP on September 25, 2019.

- On October 17, 2019 a Section 408 meeting was held with maritime stakeholders and the HRCP team to gain clarity on specifics needed to support Section 408 materials slated for submittal in late November 2019.
- Landside and marine geotechnical exploration work have begun; borings in wetlands are anticipated to occur in late October.
- HRCP developed a draft Letter of Authorization (LOA) that was submitted for VDOT review on October 15, 2019. The LOA is scheduled to be submitted to NOAA as part of the process associated with the Marine Mammal Protection Act.
- Comments were received from the Virginia Department of Game and Inland Fisheries (VDGIF) on the Colonial Nesting Bird Hazing Plan and are being addressed by HRCP and VDOT cooperatively before resubmission to DGIF in late October.
- HRCP continues to coordinate with VDOT regarding the preparation of paving plans for the South Island to include Erosion and Sediment Control (ESC) plans, updates to the SWPPP, and modification to the Construction General Permit (VAR10L793).

1.7 Quality

Quality updates for this reporting period include:

- HRCP's Design Quality Management Plan has been reviewed and conditionally approved. HRCP's updated Quality Management System Plan was reviewed and returned for revision and resubmittal.
- The Quality Auditing Program has been established for VDOT to audit HRCP. Audits of design submissions are scheduled to begin October 28.

1.8 Operations

The following operations activities took place during this reporting period:

- Shoulder closures and lane closures were conducted for geotechnical exploration, survey, and utility locating efforts.
- Tunnel lane closures were performed to complete maintenance and adjustments to the previously installed instrumentation and monitoring equipment.
- Corridor-wide field work was performed for drainage structure cleanouts, wetland delineations, ITS field review, and noise study data collection.
- Marine geotechnical explorations began on October 2, 2019.

2. Project Accomplishments

2.1 Overview and Look Ahead

Milestones

The LNTP1 completion milestone was achieved on September 24, 2019. LNTP2 and LNTP3 were issued to HRCP on September 25, 2019.

Project Management Plans

HRCP is currently developing Project Management Plans and a Risk Management Plan to support a timely, quality project delivery.

Geotechnical Investigation

The Department granted an extension of the Scope Validation Period for geotechnical investigations in Norfolk until November 5, 2019. The extension was based on receipt of the Determination of No Hazard from the Federal Aviation Administration (FAA) on August 7, 2019. Landside drilling and laboratory testing for soil classification in Norfolk and Hampton is ongoing.

Environmental Permitting

A major milestone was achieved with the submission of the JPA on August 30, 2019. Subsequently, the USACE public notice was posted on September 24, 2019 and will conclude on October 24, 2019. HRCP conducted a post-JPA submission meeting on October 1, 2019 with the permitting agencies to answer any immediate questions and get any initial feedback on the application. HRCP is anticipating a two to three-month period of responding to agency and public comments and providing additional information to satisfy those inquiries.

Third Party Coordination

Post-award coordination with the U.S. Navy and the Federal Highway Administration (FHWA) started in April and is ongoing. FHWA participates in weekly coordination meetings with VDOT and HRCP.

Key Dates

The following table depicts key milestone dates outlined in the contract requirements. HRCP's submitted Baseline Schedule reflects the early stages of HRCP's planning sequence and will be substantially refined and further detailed as the design advances. This table will be updated to reflect these dates and used as a benchmark to track milestone achievements.

Key Dates	Contract Requirement	Schedule of Record Dates	October 2019 Update	Actual
LNTP1		April 12, 2019	April 12, 2019	April 12, 2019
LNTP1 Completion Milestone		September 25, 2019	September 23, 2019	September 24, 2019
LNTP2		September 29, 2019	September 25, 2019	September 25, 2019
LNTP3		October 9, 2019	September 25, 2019	September 25, 2019
NTP		October 10, 2020	September 30, 2020	
Substantial Completion	September 1, 2025	July 18, 2025	June 28, 2025	
Final Completion	November 1, 2025	November 1, 2025	October 12, 2025	

3.2 Longest Path

The longest-path activities for the Project schedule include:

- LNTP1 Completion Milestone
- Design of South Portal
- Construction of the South Island launching pit for the Tunnel Boring Machine (TBM)
- Assembly of the TBM
- TBM mining of the new tunnels
- Finishes in the tunnels
- Commissioning and integration tests for the tunnels

3.3 Impact Analysis

Several elements of work are near-critical and could affect Project progress if they are not addressed diligently. The Department and HRCP are closely monitoring these activities.

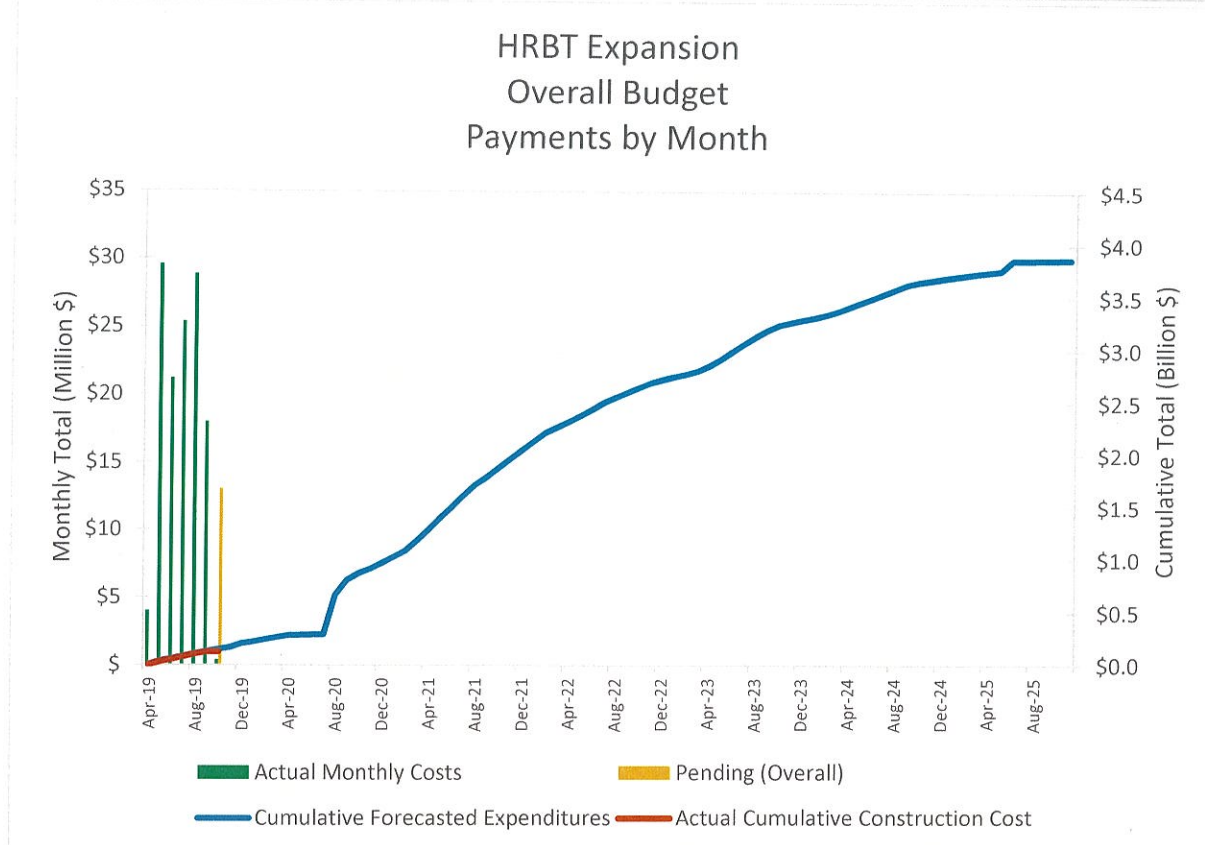
4. Budget and Cost

4.1 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 CA (monthly maximum cumulative compensation amount).

Amounts this period reflects payouts for Construction, Engineering Administration, Right of Way, and Contingency between September 22, 2019 – October 19, 2019.

	Amount this period:	Total to Date:	Total Budget:	Total Remaining Budget:	Percent Spent To-date:
Comprehensive Agreement					
Construction	\$0.00	\$115,334,749.16	\$3,299,997,227.19	\$3,184,662,478.03	3.49%
Owner Costs					
Administration	\$355,188.01	\$1,650,812.85	\$122,000,000.00	\$120,349,187.15	1.35%
Right of Way	\$23,847.99	\$6,328,211.58	\$15,000,000.00	\$8,671,788.42	42.19%
No-Excuses Incentive	\$0.00	\$0.00	\$90,000,000.00	\$90,000,000.00	0.00%
Contingency	\$0.00	\$4,000,000.00	\$335,000,000.00	\$331,000,000.00	1.19%
Total	\$379,036.00	\$127,313,773.59	\$3,861,997,227.19	\$3,734,683,453.60	3.30%



4.3 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 by both HRTAC and VDOT. The cost curve has been developed based on the monthly maximum cumulative compensation amount in the CA and will be updated as HRCP refines its design, construction means-and-methods, activity sequences, and project resourcing.

4.3.1 HRTAC and Smart Scale

	Amount this period:	Total to Date:	Total Budget Including Smart Scale:	Total Remaining Budget:	Percent Spent To-date:
Comprehensive Agreement					
Construction	\$0.00	\$115,334,749.16	\$3,204,569,251.14	\$3,089,234,501.98	3.60%
Owner Costs					
Administration	\$355,188.01	\$1,650,812.85	\$118,472,054.00	\$116,821,241.15	1.39%
Right of Way	\$23,847.99	\$6,328,211.58	\$15,000,000.00	\$8,671,788.42	42.19%
No-Excuses Incentive	\$0.00	\$0.00	\$90,000,000.00	\$90,000,000.00	0.00%
Contingency	\$0.00	\$4,000,000.00	\$325,428,276.00	\$321,428,276.00	1.23%
Total	\$379,036.00	\$127,313,773.59	\$3,753,469,581.14	\$3,626,155,807.55	3.39%

4.3.2 VDOT

	Amount this period:	Total to Date:	Total Budget:	Total Remaining Budget:	Percent Spent To-date:
Comprehensive Agreement					
Construction	\$0.00	\$0.00	\$95,427,976.00	\$95,427,976.00	0.00%
Owner Costs					
Administration	\$0.00	\$0.00	\$3,527,946.00	\$3,527,946.00	0.00%
Right of Way	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
No-Excuses Incentive	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
Contingency	\$0.00	\$0.00	\$9,571,724.00	\$9,571,724.00	0.00%
Total	\$0.00	\$0.00	\$108,527,646.00	\$108,527,646.00	0.00%

5. Environmental Management

Following the major milestone of submitting the JPA on August 30, 2019, the USACE public notice was posted on September 24, 2019 and will conclude on October 24, 2019. HRCP conducted a post-JPA submission meeting on October 1, 2019 with the permitting agencies to obtain initial agency comments and observations on the JPA. HRCP is anticipating two to three months will be necessary to respond to agency and public comments, to provide additional information necessary to satisfy those inquiries, and to deem the application complete. A Section 408 meeting was held with maritime stakeholders and the HRCP team on October 17, 2019 to gain clarity on specifics needed to support Section 408 application materials slated for submittal in late November 2019.

Additional HRCP activities included meetings to discuss methodologies for culvert cleanout activities, development of a Forest Sample plan intended to quantify tree clearing and tree replacement efforts for the project, and initiation of marine/wetland boring activities approved in the NWP6/33. Borings located within wetlands are anticipated to begin at the end of October 2019.

HRCP has also been coordinating with VDOT regarding the preparation of a Letter of Authorization (LOA) request with anticipated submittal to NOAA in November 2019, updates to the South Island Bird Hazing Plan, paving plans for the South Island that include Erosion and Sediment Control (ESC) plans, updates to the SWPPP, and modification to the Construction General Permit (VAR10L793).

Preparations began for paving of the South Island to fulfill the requirements of the Bird Management Plan. Installation of erosion and sediment control devices is complete, and vegetation removal and grading activities have started. The paving is scheduled to begin following completion of these activities, with paving performed in November.

Coordination with Hampton University continues under the terms of the Memorandum of Understanding (MOU) in order to secure access to Hampton University property to complete soil borings, survey, utility locates, noise analysis, and other tasks required to complete the design.

A weekly coordination call with the Hampton Roads Harbor Tunnels (HRHT) Facility Manager, who is responsible for operations at the HRBT, continues in order to communicate ongoing project work as well as coordinate upcoming planned work at the facility.

The weekly coordination meeting between VDOT and HRCP continues in order to provide a lookahead of upcoming field activities and ensure concurrent activities are properly coordinated. All field work and traffic impacts are being reported through VDOT's Lane Closure Advisory Management System (LCAMS), which provides a method to coordinate traffic operations across the region.

In an effort to implement HRCP's Workforce Utilization Plan, talks are underway to host a Workforce Development Event and a Community Roundtable in collaboration with VDOT to further enhance workforce and small business initiatives for the Project. As a result, HRCP has initiated meetings with Hampton University, Hampton Roads Workforce Council, and VDOT's BOWD Center to discuss pipeline strategies for training and recruiting critical professional and construction-type positions for the project.

VDOT and HRCP have also begun planning for the Bonding Education Program (BEP) hosted by the USDOT's Small Business Transportation Resource Center in partnership with the NC Institute for Minority Economic Development. A full Stakeholders Meeting will be held in late October. HRCP will be the lead Contractor and VDOT will host the two-week training and education program for interested small businesses in the region.

VDOT's Civil Rights Manager and HRCP's DBE/SWaM Manager continued to discuss compliance activities and reporting requirements to include EEO form submissions and certified payrolls.

- Engineering Manager Frank Fabian was invited to address the Old Dominion chapter of the American Society of Highway Engineers in Richmond on October 10.
- Operations Manager Bradley Weidenhammer briefed the project at VDOT's statewide Operations Workshop in Suffolk on October 10.



- Communications Manager Paula Miller spoke to the East Ocean View Civic League on October 3 and to Willoughby Civic League in Norfolk on October 10. This was Willoughby's seventh project presentation since May 2017.
- Miller and HRCP's Communications Manager, Steve Meyers, also provided a project update to the Ocean View Task Force on October 17.