



November 2019
Project Report

I-64 HAMPTON ROADS BRIDGE-TUNNEL EXPANSION

Proj. No. 0064-M06-032
Report #8



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Issue date: December 13, 2019

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 October 20, 2019 – November 23, 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 held one-on-one meetings with the Virginia Marine Resources Commission (VMRC) on October 23, 2019, the Department of Environmental Quality (DEQ) on October 25, 2019, the U.S. Army Corps of Engineers (USACE) on October 30, 2019, and Virginia Institute of Marine Science (VIMS) on November 5, 2019, to discuss the Joint Permit Application (JPA) and determine a timeline for the receipt of comments and requests for information (RFIs) from these agencies.
- The public comment period for the USACE JPA public notice ended on October 24, 2019.
- HRCP conducted an agency workshop on November 6, 2019, discussion of pile driving activities and associated noise impacts and the proposed mitigation plan.
- HRCP submitted the request for a Letter of Authorization (LOA) to the National Oceanic and Atmospheric Administration (NOAA) on November 19, 2019, for incidental harassment of marine mammals in association with project construction.

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.
- Notice to Proceed (NTP) will be issued following receipt of the project's Corps of Engineers, Virginia DEQ, and VMRC permits.
- Final completion remains as scheduled for November 1, 2025.
- Approximately 9.7% of the contract time has progressed to date.

1.5 Budget and Cost

The budget and cost updates for this reporting period are as follows:

- Project budget overview (through November 2019 payment application):

Total project budget:	\$3,861,997,227
Total charges for efforts to date:	\$157,848,662
Remaining project budget:	\$3,704,148,565

- Design-build contract overview (through November 2019 payment application):

Total contract amount:	\$3,299,997,227
Total charges for efforts to date:	\$142,981,302
Total work orders:	\$0

- Design-build progress to date (through November 2019 payment application):

Overall:	4.33%
Mobilization:	10.81%
General Requirements (incl. Project Management):	3.46%
Design:	31.73%
Physical Progress:	0%

1.6 Environmental Management

During this reporting period, HRCP took the following steps towards obtaining environmental clearances covering the roadway, bridge, and tunnel construction and permit acquisition for the main project:

- HRCP met with the Virginia Marine Resources Commission (VMRC) on October 23, 2019, the Department of Environmental Quality (DEQ) on October 25, 2019, and the U.S. Army Corps of Engineers (USACE) on October 30, 2019 to discuss the Joint Permit Application (JPA) and determine a timeline for the receipt of comments and requests for information (RFIs).
- HRCP conducted a Maintenance of Traffic (MOT) Island Access meeting on October 25, 2019.
- HRCP met with VIMS on November 5, 2019, to discuss impacts to marine resources associated with project construction.
- HRCP conducted an agency workshop on November 6, 2019, to review pile driving activities and associated noise impacts and the proposed mitigation plan.
- HRCP submitted the Section 7 consultation package to FHWA on November 18, 2019.
- HRCP received JPA comments from the USACE on November 19, 2019.
- HRCP submitted the LOA request to NOAA on November 19, 2019, for incidental harassment of marine mammals in association with project construction.
- Landside and marine geotechnical exploration work is ongoing, and wetland borings are under way.
- HRCP has substantially completed paving of the South Island and continues to consult with VDOT regarding the South Island Nesting Bird Management Plan, Erosion and Sediment Control (ESC) plans, updates to the Stormwater Pollution Prevention Plan (SWPPP), and modifications to the Construction General Permit (CGP) (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. HRCP's Construction Quality Management Plan was reviewed and returned for revision and resubmittal.
- VDOT conducted an audit of two design submissions. A letter with audit comments was sent to HRCP on November 15, 2019.
- VDOT conducted reviews of HRCP daily reports, material book documentation and MOT documentation. Corrections needed were discussed with HRCP's Quality Manager.

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, and ITS field review.
- Marine geotechnical explorations continued.
- Paving of the South Island was substantially completed.

1.9 Safety

Safety procedures and activities during this reporting period include:

- Daily safety meetings are held on site with all staff working on site present.
- All personnel are urged to use caution entering/exiting the tunnel islands, be aware of traffic conditions and have an adequate gap in traffic to accelerate safely into the travel lane.
- Safety orientations and trainings are ongoing.
- On November 5, 2019, there was hydraulic leak on a geotechnical drill rig outrigger during prosecution of the HRBT landside supplemental geotechnical investigation. The drill rig was shut down and the field crew contained the leak with a spill kit which was then disposed of. It was reported that none of the hydraulic fluid made it to the ground surface.
- On November 7, 2019, a subcontractor's (Virginia Paving) dump truck struck the rear end of the vehicle in front of them. No injuries were reported. The vehicle sustained considerable damage. The Virginia Paving truck's damage was minimal.
- On November 12, 2019, a subcontractor was performing soil exploration borings on the shoulder of EB 64 between Patrol Road and Granby Street. The driller operator's helper sustained a minor laceration on his left cheek and was taken to a nearby medical facility where he was provided with first aid treatment.

1.10 DBE & SWAM Business Activities

The following DBE & SWAM Business Activities occurred during this reporting period:

- Getting Ready to do Business with Hampton Roads Transit (HRT) on October 20, 2019
- VDOT's Business Opportunity & Workforce Development (BOWD) Center on October 20, 2019
- Monthly Civil Rights Meeting on October 22, 2019
- Christopher Newport University Small Business Expo on November 7, 2019
- Virginia Asian Chamber of Commerce Northern Virginia ProcureCon on November 7, 2019
- City of Virginia Beach's Minority Business Council 21st Conference & Expo on November 7, 2019

1.11 Public Outreach

Public outreach updates for this reporting period are as follows:

- Members of VDOT's HRBT Expansion Team have participated in more than 50 outreach events to date.
- Of specific note in this period, the following project updates were provided:
 - Old Dominion University Civil Engineering Seminar
 - Homeowner's Association at Nansemond on the Bay in Norfolk
 - Women's Transportation Seminar – Hampton Roads Chapter
 - Norfolk Environmental Commission
 - Governor's Transportation Summit

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 Scope Validation General Notice for the geotechnical investigations in the Norfolk area was submitted on November 4, 2019 and HRCP plans to submit the Supporting Documentation on November 25, 2019. The marine geotechnical investigations are on-going and HRCP is collecting the information for the General Notice due on December 26, 2019. Landside drilling and laboratory testing for soil classification in Norfolk and Hampton is ongoing.

Environmental Permitting

HRCP has conducted one-on-one meetings with permitting agencies to receive preliminary comments and recommendations or answer questions about the JPA documents. The public comment period for the USACE JPA public notice ended on October 24, 2019, and HRCP has received comments from the USACE on the JPA. HRCP is anticipating a two to three-month period of responding to agency and public comments and providing additional information to satisfy those inquiries. The request for a LOA to NOAA was submitted on November 19, 2019.

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.

3. Project Schedule

3.1 Schedule Status

Baseline Schedule

The Baseline Schedule has been accepted as the Schedule of Record. The current longest path for the project remains through the boring of the two new tunnels beginning with the design, permitting, and construction of the South Island Portal.

Permitting Schedule

The Project's USACE, Virginia Department of Environmental Quality (DEQ) and Virginia Marine Resources Commission (VMRC) permits include multiple administrative documents, including the Coastal Zone Management (CZM) consistency determination, the USACE Section 404/10 permit, USACE Section 408 Permission Letter, the VDEQ water protection permit, and the VMRC subaqueous land permit.

Following a late August submission of the final JPA documents, and supplemental information in early September, USACE issued their public notice on September 24, 2019. The USACE public comment period concluded on October 24, 2019. HRCP is continuing to work to support their goal of obtaining USACE, DEQ, and VMRC permits by April 2020. The USCG permit(s) for bridge construction are being pursued concurrently.

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	November 2019 Update	Actual
LNTP1		April 12, 2019	April 12, 2019	April 12, 2019
LNTP1 Completion Milestone		September 25, 2019	September 24, 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	October 9, 2020	
Substantial Completion	September 1, 2025	July 18, 2025	July 18, 2025	
Final Completion	November 1, 2025	November 1, 2025	November 1, 2025	

3.2 Longest Path

The longest-path activities for the Project schedule include:

- Design of the South Portal Launching Pit Package 1 for Early Works and Utilities
- Completion of the utilities on the South Island
- Site installation activities
- Completion of the Slurry Walls for Cell 1 of the launching pit
- Completion of the South Portal launching pit
- Assembly of the TBM in the launching pit
- TBM drive in the HOT tunnel, U-Turn then drive in GP tunnel
- Finishing works and MEP works in HOT tunnel
- Commissioning and integration tests

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. The following work elements have been identified as near critical, meaning there is less than one month of float in the Baseline Schedule:

- JPA Process
- Design and construction of permit-dependent structures at Oastes Creek and Bay Avenue
- Space proofing report for the TBM order
- Utilities relocation

Achieving the public-notice milestone for the project's joint permit application allowed LNTP2 and LNTP3 to be issued. LNTP2 enables procurement of the TBM, while LNTP3 allows commencement of construction work for the launching pit and ground improvement on South Island. Receipt of the project's Corps of Engineers, Virginia DEQ and VMRC permits will allow full NTP for the Project.

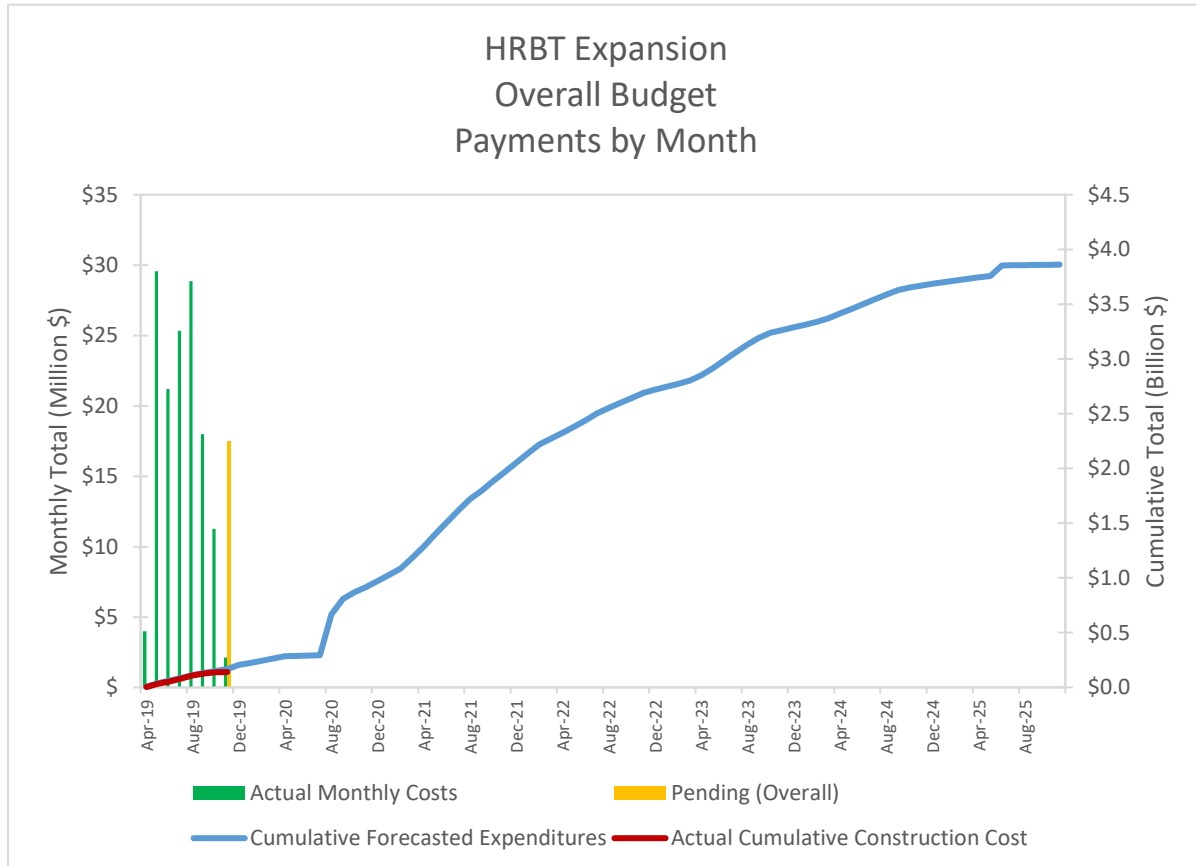
4. Budget and Cost

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 October 20, 2019 – November 23, 2019.

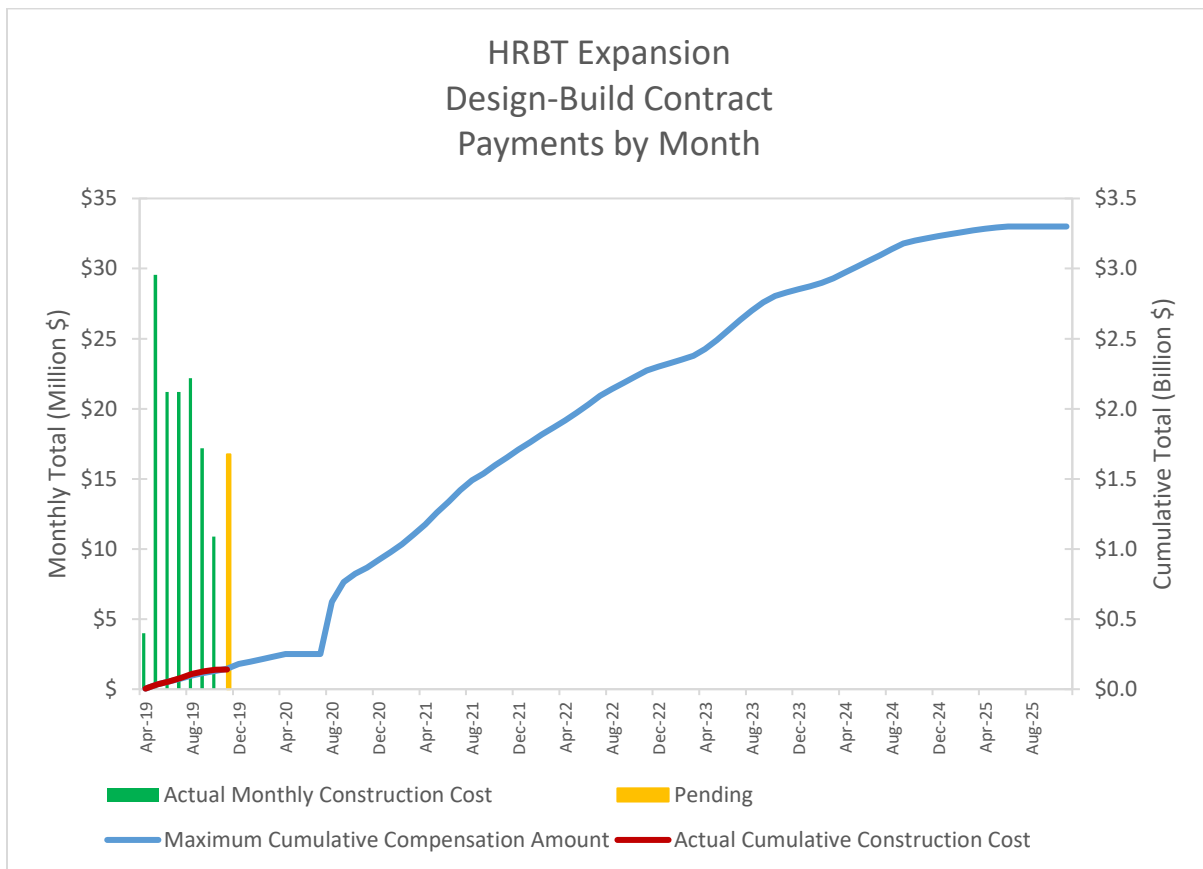
	Amount this period:	Total to Date:	Total Budget:	Total Remaining Budget:	Percent Spent To-date:
Comprehensive Agreement					
Construction	\$10,895,374.71	\$126,230,123.87	\$3,299,997,227.19	\$3,173,767,103.32	3.83%
Owner Costs					
Administration	\$2,111,039.58	\$3,761,852.43	\$122,000,000.00	\$118,238,147.57	3.08%
Right of Way	\$5,772.20	\$6,333,983.78	\$15,000,000.00	\$8,666,016.22	42.23%
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	\$13,012,186.49	\$140,325,960.08	\$3,861,997,227.19	\$3,721,671,267.11	3.63%



4.2 Design-Build Cost Status

The construction budget and planned cost have been established based on the maximum cumulative compensation amount. For this period, the following tasks are associated with the invoiced expenditures (actual construction cost):

- Project management
- Design surveys
- Environmental permitting
- Geotechnical investigation
- Design work



4.3 Budget by Funding Source

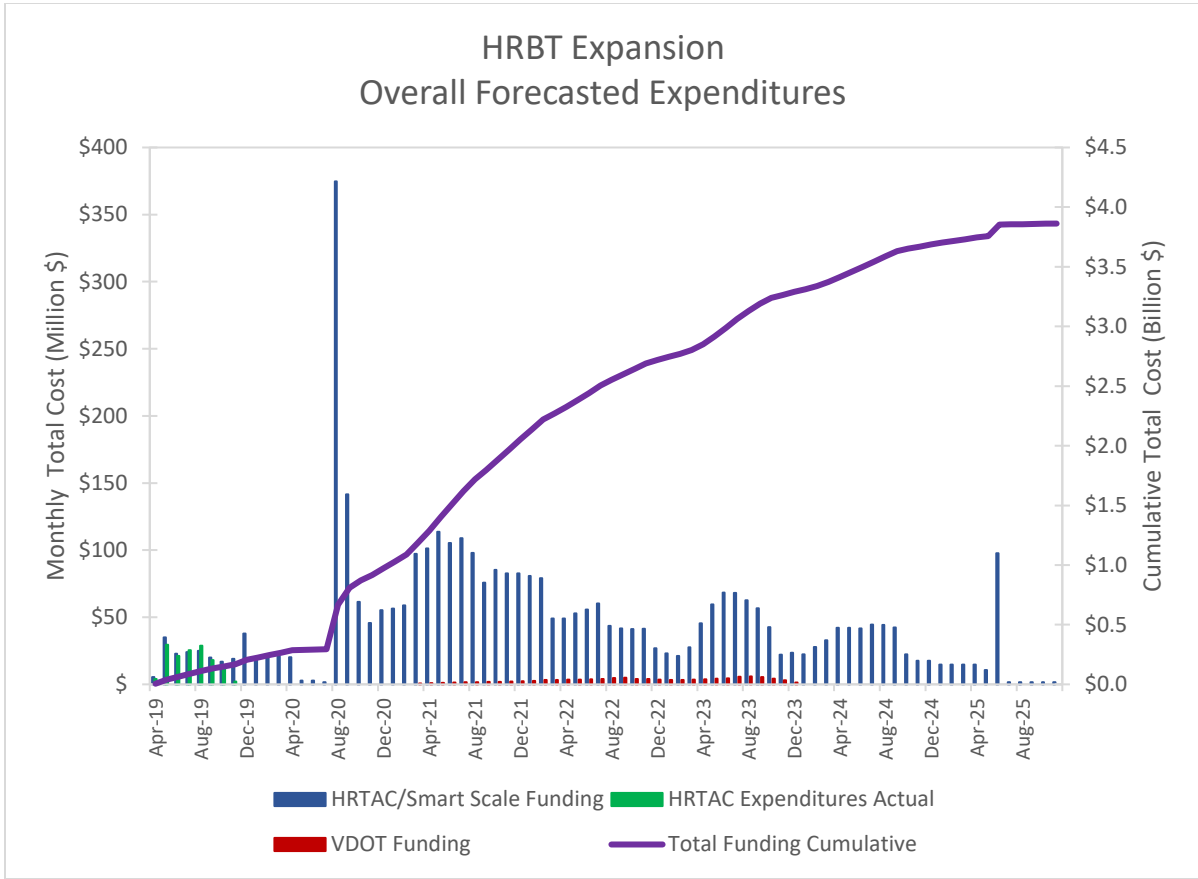
The budget for expenditures by funding source is based on the terms and conditions of Article 3 (Project Funding) and Exhibit 5 of the PAFA. This section outlines planned expenditures by both HRTAC and VDOT. The cost curve has been developed based on the monthly maximum cumulative compensation amount 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:
<u>Comprehensive Agreement</u>					
Construction	\$10,895,374.71	\$126,230,123.87	\$3,204,569,251.14	\$3,078,339,127.27	3.94%
<u>Owner Costs</u>					
Administration	\$2,111,039.58	\$3,761,852.43	\$118,472,054.00	\$114,710,201.57	3.18%
Right of Way	\$5,772.20	\$6,333,983.78	\$15,000,000.00	\$8,666,016.22	42.23%
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	\$13,012,186.49	\$140,325,960.08	\$3,753,469,581.14	\$3,613,143,621.06	3.74%

4.3.2 VDOT

	Amount this period:	Total to Date:	Total Budget:	Total Remaining Budget:	Percent Spent To-date:
<u>Comprehensive Agreement</u>					
Construction	\$0.00	\$0.00	\$95,427,976.00	\$95,427,976.00	0.00%
<u>Owner Costs</u>					
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%



4.4 Contingency

- 0 work orders to date
- \$0 material price adjustments (asphalt, steel, & fuel) to date

5. Environmental Management

Following the submittal of the JPA on August 30, 2019, the USACE public notice was posted on September 24, 2019, and the public comment period ended on October 24, 2019. HRCP has conducted one-on-one meetings with the permitting agencies to discuss preliminary comments and concerns and to establish a timeline for providing formal comments or RFIs. 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. HRCP received formal comments from the USACE on November 19, 2019 and is in the process of responding to those comments and revising JPA documents as necessary.

Additional HRCP activities included meetings to discuss pile driving activities and potential noise mitigation and to review the proposed mitigation for wetland, submerged aquatic vegetation (SAV), and marine/estuarine resources impacts. Marine/wetland boring activities approved in the NWP6/33 are ongoing, and a few minor revisions to boring locations were submitted to the permitting agencies.

HRCP submitted a LOA request to VDOT for review, and the review was completed on October 25, 2019. HRCP submitted the revised LOA request to NOAA on November 19, 2019. HRCP continues to coordinate with VDOT concerning updates to the South Island Nesting Bird Management Plan, South Island ESC plans, updates to the SWPPP, and modification to the Construction General Permit (VAR10L793).

6. Operations

Field activities continued this period to support scope validation and early design efforts. Shoulder closures and lane closures were conducted for geotechnical exploration, survey, and utility locating work. Tunnel lane closures were performed to complete maintenance and adjustments to the previously installed instrumentation and monitoring program. Corridor-wide field work was also performed for drainage structure cleanouts, wetland delineations, and ITS field review.

Marine geotechnical explorations continued. In addition to the two self-propelled lift boats previously mobilized, three additional smaller barges were mobilized to complete the more than 400 marine borings along the HRBT trestle bridges and Willoughby Bay Bridge. This program is expected to last through February 2020.

Other geotechnical borings in wetlands governed by the NW-6 permit were initiated during this period. These borings require the use of a mud buggy/track rig to access boring locations located in environmentally sensitive areas.



Paving of the South Island, required to fulfill the Contract Requirement, was substantially completed. Several small areas of the island remain to be paved, including areas under previously stockpiled materials and around the island perimeter.



The second Fire Life Safety Committee meeting was held on November 22, 2019 and included representatives from Hampton Fire and Police, Norfolk Fire and Police, and Virginia State Police. The focus of the meeting was to gain concurrence on egress corridor width and egress door spacing. It is anticipated that this committee will meet quarterly.

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 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.

7. DBE & SWaM Business Activities

DBE and SWaM business activities continued for this period. To date, the Contractor has executed 60 subcontracts and purchase orders with DBE and SWaM firms in the design and preliminary construction phase.

Both HRCP and VDOT continued to meet with small businesses one-on-one and attended outreach events throughout the state to make firms aware of opportunities currently available on the project. These events included:

- Getting Ready to do Business with HRT on October 20, 2019 in Norfolk
- Christopher Newport University Small Business Expo on November 7, 2019
- Virginia Asian Chamber of Commerce Northern Virginia ProcureCon in Fairfax on November 7, 2019
- City of Virginia Beach's Minority Business Council 21st Conference & Expo on November 7, 2019



HRCP 's DBE/SWaM Compliance Manager met with VDOT's Business Opportunity & Workforce Development (BOWD) Center Director on October 20, 2019 to learn ways for leveraging the Center's resources for DBE's performing on a VDOT project. HRBT Expansion Project has been identified as a targeted project along with I-66, I-395 Express Lanes, and the High-Rise Bridge. The Strategic Model includes developing a consistent framework for using the BOWD Center for advertising project opportunities, matchmaking, and utilization of business development resources. HRCP was introduced to VDOT's DBE Readiness Tool via the DBE Development Portal to access online training and assist in determining a firm's strengths and weaknesses. Primes familiar with these tools can be of greater assistance in helping firms increase their capacity to pursue various business opportunities.

VDOT and HRCP participated in its Monthly Civil Rights Meeting on October 22, 2019 to discuss outreach and compliance activities for the project. Discussions included reporting requirements, new and pending subcontracts, areas of opportunities, and any potential concerns. The HRCP Compliance Manager discussed plans for its first Workforce Development Event and Community Roundtable series in 2020.

VDOT and HRCP continue to work in collaboration with the USDOT's Small Business Transportation Center in making plans for the upcoming Bonding Education Program. Stakeholders participated in a conference call on November 14, 2019. The event kick-off is scheduled for January 14, 2020 with the two-week training held on February 2-6, 2020 and February 11-13, 2020 at VDOT's Hampton Roads District Office.

HRCP participated in VDOT's DBE Compliance Training held on November 19, 2019 to learn more about state and federal regulations on highway construction projects. The training was designed to familiarize contractors with reporting forms required. Topics also included EEO regulations, labor requirements, and DBE program regulations.

The Civil Rights Division continues to review required civil rights document submittals from the Design-Builder and VDOT's Program Support Consultant.

8. Public Outreach

On November 1, 2019, engineering students in Dr. Sherif Ishak's class at Old Dominion University had a front row seat for expansion project details from ODU Civil Engineering Alum Philip Casteen. Philip received his Bachelor of Science degree in Civil Engineering from ODU in 2016 and was awarded a Master of Civil Engineering from ODU earlier this year. Philip is currently a project engineer on the Hampton Roads Bridge-Tunnel Expansion Project.



VDOT's HRBT Expansion Team, its Engineering and Construction Support Contract (ECSC) Team, and the local chapter of Women's Transportation Seminar (WTS) partnered to donate more than \$1200 to buy school supplies for Ocean View Elementary School (Norfolk) and Bryan Elementary School (Hampton). The partnership selected the two schools as part of a community service project. The supplies included markers, books, picture dictionaries, pencils, hand sanitizer, boxes of tissues, glue sticks and other wish list items. Bryan Elementary also received school uniforms, one of the school's top requests. Grateful staff and students from both schools greeted the donors' representatives when the supplies arrived on November 8, 2019.

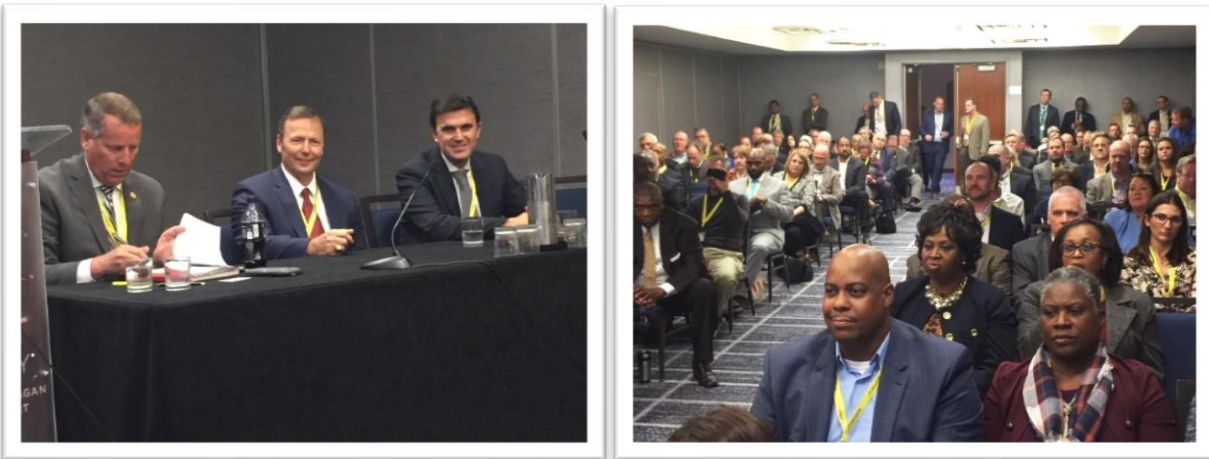


HRBT Expansion Project Communications Manager Paula Miller and Project Operations Manager Bradley Weidenhammer teamed up for a project presentation at Nansemond on the Bay in Norfolk on November 12, 2019. The homeowner's association held a lunch and learn session with about 30 residents in attendance.

On November 13, 2019, HRBT Deputy Project Director Pete Reilly was keynote speaker for the Women's Transportation Seminar-Hampton Roads Chapter November meeting. Interest in the presentation centered primarily on tunnel boring technology to be used for the twin tunnels.

The Norfolk Environmental Commission requested a presentation of the HRBT Expansion Project for its November 19, 2019 monthly meeting. The NEC was particularly interested in what environmental studies were completed for the project, potential impacts to trees and wetlands, as well as construction traffic impacts. HRBT Operations Manager Bradley Weidenhammer answered the Commission's questions and was invited to return as the project progresses.

It was a standing-room only for the Governor's Transportation Summit in Arlington, VA on November 21, 2019 as the HRBT Expansion Project was explained as part of a three-day conference. HRBT Project Director Jim Utterback and HRCP Project Executive Jose Martin shared plans for the 3.8-billion-dollar expansion. VDOT Deputy Commissioner Rob Cary introduced the project leaders.



9. Project Media

The HRBT Expansion Project launched a podcast called HRBT Tunnel Talk in October 2019. The first podcast, hosted by Communications Manager Paula Miller, is a conversation with HRTAC Executive Director Kevin Page who explores how the tunnel project evolved and the project's financing.

A second podcast focuses on DBE and SWaM opportunities available for the project.

To find the podcasts on iTunes and Apple Podcasts search for HRBT Tunnel Talk.

