



**PATTULLO BRIDGE
REPLACEMENT**



transportation
investment
corporation

Monthly Status Report

Reporting Period
August 2024

1. Introduction

1.1 Project Overview

The Pattullo Bridge is a key connection between the communities of Surrey and New Westminster.

The new toll-free four-lane bridge will provide important improvements for everyone using the bridge, including people who are driving, cycling, or walking, as well as communities on either side of the bridge.

The new bridge will provide:

- A safer crossing for all bridge users with modern, wider lanes, separated by a centre median barrier.
- Dedicated walking and cycling lanes, separated from traffic by a barrier on both sides of the bridge.
- Better connections to, from and near the bridge.

The new bridge is scheduled to open in fall 2025. The existing bridge will remain in use until the new bridge is open to traffic. Once the new bridge is open, the existing bridge will be removed. Additional information and updates about the Project can be found on the Project's website <https://www.pattullobridgereplacement.ca>.

1.2 Project Delivery

Transportation Investment Corporation (TI Corp), a provincial Crown corporation, is delivering and overseeing this \$1.377 billion Project. The Project is being delivered under B.C.'s Community Benefits Agreement and the Project workforce is being provided by B.C. Infrastructure Benefits Inc.

The Fraser Crossing Project Corporation (Contractor) has been selected to design and build the new bridge. The Province will own and maintain the new bridge when it is complete.

The Project represents a significant investment in multi-modal transportation mobility improvements and supports provincial and regional strategies, environmental objectives, and the economic development of transportation services in the region.

1.3 Project Goals








Measure specific data to confirm the following Project goals and objectives are being met in accordance with the Project's **Performance Measurement Plan**:

1. Provide a **structurally sound bridge crossing** to maintain a critical local and regional connection;
2. **Improve safety for all users** with modern lane widths, road curvature, centre median barrier and separated pedestrian and cycling lanes; and
3. **Improve connectivity, reliability and modal choice** while supporting environmental objectives.

The Project represents a significant investment in multi-modal transportation mobility improvements and supports provincial and regional strategies, environmental objectives, and the economic development of transportation services in the region.

2. Project Update

2.1 Project Dashboard

		Objectives	Project Status	Comments
Project Delivery	Scope	Project delivered within the approved scope.		<ul style="list-style-type: none"> The Project includes a new four-lane bridge, improved connections to, from and near the bridge and dedicated walking and cycling lanes and is on track to be delivered within the approved scope.
	Schedule	Project delivered within the approved schedule.		<ul style="list-style-type: none"> Revised schedule announced May 24, 2024. The new bridge is scheduled to open in fall 2025. Thorough schedule analysis is undertaken each month, including review of performance.
	Budget	Project delivered within the approved budget of \$1.377 billion.		<ul style="list-style-type: none"> Project spending for the month of August 2024 was \$18.4 million. Total Project spending to date is \$973.5 million. Budget related risks and issues, including inflationary and schedule pressures, are being monitored. The Project is currently within budget. The budget pressures associated with the extended schedule are being managed within the current budget.
	Safety	Ensure that Project work is performed safely and in compliance with all applicable safety regulations, and in accordance with government policy.		<ul style="list-style-type: none"> Monitored the implementation of the health and safety program and provided on-site monitoring. There have been seven (7) lost time injuries on the Project to date. Lost Time Injury Frequency Rate (LTIFR) for the Project is 0.52 which is less than the WorkSafeBC 2023 rate of 1.7* for heavy construction (Bridge, Overpass, or Viaduct Construction or Repair). <p><i>* Injury rate data reflects Large Employer 100+ Person Years employer size.</i></p>
	Quality	Implement an effective Quality Management System.		<ul style="list-style-type: none"> Continued monitoring the structural steel fabrication, including steel component testing. Continued to review quality record packages of fabricated components.
	Environmental	Ensure our work is performed in an environmentally responsible manner.		<ul style="list-style-type: none"> Continued discussions between the contractor, Project, and environmental regulators on environmental performance, demolition environmental management plans and permitting.
	Archaeology	Ensure the work is performed in a manner that meets the standards of the Heritage Conservation Act.		<ul style="list-style-type: none"> Continued to progress the archaeological field program in collaboration with First Nations.

	Design and Construction	Provide design and technical oversight, coordinate and manage activities on site and conduct compliance reviews.	●	<ul style="list-style-type: none"> Continued to closely monitor final design progress. Repaired and recertified Rubrica lifter cranes for main bridge steel installation. Continued deck panel installation and deck construction activities for south approach. Continued north approach girder erection activities. Started phase 2 of the Old Yale Road Overpass construction. Continued girder erection, deck panel, and stay cable installation for the main bridge. Continued preparation for end span erection for main bridge. Continued monitoring structural steel fabrication and shipments, including re-inspection activities. Continued daily site monitoring and reporting.
	Community Benefits	Work collaboratively with BC Infrastructure Benefits Inc. (BCIB) to successfully implement the Community Benefits Agreement (CBA).	●	<ul style="list-style-type: none"> Ongoing coordination and collaboration with BCIB to implement the CBA. Ongoing discussions regarding current and future Project workforce.
Partners/Stakeholders	First Nations	Continue to build and maintain a positive collaborative working relationship.	●	<ul style="list-style-type: none"> Continued to engage with First Nations in relation to Project permitting, habitat offsetting planning, environmental compliance, Indigenous cultural recognition, the planting plan, Project participation, and opportunities. Continued consultation on mitigation measures, in accordance with permit conditions of the Environmental Assessment Certificate (EAC) and the Vancouver Fraser Port Authority's Project and Environmental Review (PER) Project permit.
	Third Parties	Continue to build and maintain positive relationships and secure agreements with Project partners and other third parties.	●	<ul style="list-style-type: none"> Working closely with municipalities on traffic management, roadway conditions and construction activities. Continued handover/transfer agreement discussions regarding the existing bridge with TransLink. Working closely with utilities and railway companies on design and construction activities and obtaining required permits.
	Public and Stakeholder Engagement	Continue to build and maintain positive relationships with the community and other stakeholders.	●	<ul style="list-style-type: none"> Continued engagement with local businesses, stakeholders, residents, and the public.

Status	Description
●	Managing critical issues, negotiating resolution; action required immediately
●	Managing some issues, negotiating resolution; action required in the near term
●	Managing day to day operations

3. Project Documents and Achievements to Date

Project Delivery	Project Planning and Development	<ul style="list-style-type: none"> • Completion of three phases of public consultation (2013-2016) • Executed Design-Build-Finance Agreement (February 2020) • Project Overview Report (May 2020) • Project Report (July 2020)
	Environmental	<ul style="list-style-type: none"> • Environmental Assessment Certificate (EAC) (April 2019) • Port and Environmental Review (PER) Permit (May 2019) • Canadian Navigable Waters Act Approval (November 2020) • Water Sustainability Act (WSA) Change Approval (November 2020) • Water Sustainability Act Short Term Use Approval (December 2020) • Fisheries Act Authorization (February 2021) and subsequent amendments (January 2022, November 2022 and February 2024)
	Community Benefits	<ul style="list-style-type: none"> • Community Benefits Agreement (July 2018) • BCIB Health and Safety Program (May 2019) • BCIB-AIRCC Enabling Agreement Executed (July 2019) • Project Definition: Pattullo Bridge Replacement Project (July 2019) BCIB-Contractor Agreement Executed (February 2020) • BCIB-Subcontractor Agreement Executed (February 2020)
Partners/Stakeholders	Third Parties	<ul style="list-style-type: none"> • CN Master Agreement (May 2019) • City of Surrey Municipal Agreement (September 2019) • City of New Westminster Municipal Agreement (September 2019) • Metro Vancouver Accommodation Agreement (December 2019) • Construction and land licenses acquired from Vancouver Fraser Port Authority (VFPA); VFPA demolition license finalized (December 2019) • CP Grade Separation Construction Agreement (January 2020) • Shaw Telecommunications Facilities Relocation Agreement (March 2020) • Zayo Telecommunications Facilities Relocation Agreement (March 2020) • CP Overpass Crossing and Maintenance Agreement (December 2020) • TransLink Consent Agreement for in-river works (December 2020) • MOTI-FortisBC Energy Inc. Pipeline Removal Agreement (February 2023) • MOTI-TransLink Pattullo Bridge Decommissioning Agreement (May 2023)

4. Monthly Highlights and Three Month Lookahead

4.1 Safety

Scope:	<ul style="list-style-type: none"> Establish Occupational Health and Safety (OH&S) Project delivery objectives and performance measures. Manage Project OH&S activities. Monitor relevant OH&S performance metrics. Ensure the Project complies with relevant WorkSafeBC regulations and government requirements.
Monthly Highlights:	<ul style="list-style-type: none"> Continued to receive health and safety updates and incident reports from BCIB and the contractor. 21 incidents were documented in the health and safety log for the month. None of the incidents resulted in a Lost Time Injury. Lost Time Injury Frequency Rate (LTIFR) for the Project is 0.52 which is less than the WorkSafeBC 2023 rate of 1.7* for heavy construction (Bridge, Overpass, or Viaduct Construction or Repair). <p><i>* Injury rate data reflects Large Employer 100+ Person Years employer size.</i></p>
Three Month Lookahead:	<ul style="list-style-type: none"> Update safe work plans and safe job procedures as required. Continue to deliver training on the Job Hazard Assessment and Risk Mitigation Plan. Conduct OH&S audits as and when required.

4.2 Quality

Scope:	<ul style="list-style-type: none"> Establish quality management Project objectives and performance measures. Manage Project quality management activities. Monitor relevant quality management performance metrics.
Monthly Highlights:	<ul style="list-style-type: none"> Continued review and discussion on quality records for the Project. Continued review of structural steel fabrication activities, shipment status and quality records, including auditing, inspection and testing. 13 Non-Conformity Reports (NCRs) were initiated in the month related to precast fabrication, bearings, cast in place concrete and structural steel fabrication. To date, there have been a total of 514 NCRs (75 open, two void (cancelled), and 437 closed). The established Project quality control programs continued to review testing results and identify any steel and structural component fabrication contractual non-compliances for remediation/resolution.
Three Month Lookahead:	<ul style="list-style-type: none"> Continue steel fabrication quality monitoring, surveillance auditing, and initiate inspections and tests as required. Continue review of the contractor's inspection and test plans and associated records. Continue review of quality-related submittals. Continue conducting audits based on audit schedule.

4.3 Environmental

Scope:	<ul style="list-style-type: none"> • Manage follow-up and compliance actions required under the Environmental Assessment Certificate (EAC) and the Port's Project and Environmental Review (PER) permit as well as other necessary environmental permits. • Liaise with regulators on matters related to EAC and PER permit conditions and commitments made through the environmental assessment process and management plans. • Oversee outstanding environmental permits, permit amendments and associated environmental studies, monitoring, and compliance processes for existing bridge demolition. • Supporting consultation on permit related matters including Project FAA offsetting commitments.
Monthly Highlights:	<ul style="list-style-type: none"> • Ongoing conversations between the contractor, Province, and environmental regulators on the Project's environmental requirements. • Continued planning and consultation for the qiqéyt offsetting site and offsetting on the Cumberland Point industrial site. • Continued to work towards a long-term access agreement with Metro Vancouver for offsetting on the Cumberland Point industrial site in New Westminster. • 99 environmental non-compliances were reported for the month of August by the Independent Environmental Monitor (IEM) in relation to spill prevention, hazardous materials management, invasive species management and non-hazardous waste management. The majority of the non-compliances were minor, and spills were cleaned up appropriately. • Continued meetings between the Project team, the contractor, regulators and IEM related to environmental compliance, permitting requirements and management plans. • Continued meetings for the bridge demolition planning works. • Continued to progress the Certified Project Area Amendment submission to EAO for bridge demolition and other ancillary project works.
Three Month Lookahead:	<ul style="list-style-type: none"> • Continue to liaise with regulators on follow-up actions and commitments arising from the required Project permits and approvals. • Continue working with the contractor and environmental regulators to ensure the Project's permitting requirements are met. • Continue to develop offsetting detailed design at qiqéyt and continue to consult on the conceptual design for the Cumberland Point industrial site with Metro Vancouver. • Conduct review of the Construction Environmental Management Plan, Demolition Environmental Management Plan, and other Environmental Management Plans and permitting updates. • Submit the Certified Project Area Amendment to the EAO for bridge demolition and other minor scopes of work outside of the Certified Project Area.

4.4 Archaeology

Scope:	<ul style="list-style-type: none"> • Managing, directing, and undertaking all archaeological work, including Archaeology Impact Assessment (AIA), Systematic Data Recovery (SDR), and archaeological monitoring in consultation with First Nations.
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Monthly Highlights:	<ul style="list-style-type: none"> • Scheduled archeological monitoring across Project sites in both New Westminster and Surrey as required. • Working to complete regulatory AIA and investigation reports.
Three Month Lookahead:	<ul style="list-style-type: none"> • Continue archaeological monitoring and archaeological investigations as required. • Continue to liaise with regulators on follow-up actions and commitments from required Project permits and approvals. • Finalize preparations for the existing bridge demolition AIA. • Plan archaeological support for habitat offsetting.

4.5 Design and Construction

Scope:	<ul style="list-style-type: none"> • Travel demand forecasting, traffic operations modelling, traffic data collection, and other related engineering services in support of the Project. • Review the final bridge design including roadways, associated structures, drainage, and utilities. • Compliance reviews during construction. • Provide oversight of contractor on-site activities throughout the Project’s lifecycle. • Management of the Project’s schedule, scope, and progress.
Monthly Highlights:	<ul style="list-style-type: none"> • Continued progress on the remaining final design drawings and Issued For Construction (IFC) drawings. • N1 pier cap pedestals and formwork underway. • Repaired and recertified Rubrica lifter crane for the main bridge back span structural steel installation. • Completed deck panel installation between piers SA and S7, and continued deck construction activities from piers SA to S8. • Continued bolt torquing and verification for erected south approach spans from S4 to S7. • Continued north approach girder erection activities between piers N2 and N1, completed TS3 re-design, and started preparation for next sequence of girder erection up to N1 pier. • Continued coordination with CN Rail and Canadian Pacific Kansas City (CPKC) Rail for north approach girder erection, and for main bridge girder erection over CN Rail Bridge. • Continued to advance King George Boulevard – 112 Ave retaining walls and approach embankment construction. • Started construction of Phase 2 of the Old Yale Road Overpass and the approach embankments. • Continued fabricating the main bridge, north and south approach precast deck panels, and continued to monitor fabrication activities on periodic pre-cast facility visits. • Advanced substructure works for on-land multi-use path piers in Surrey and New Westminster, and continued SR2, SR3, SR4, and SR5 pier cap construction in Surrey.
Three Month Lookahead:	<ul style="list-style-type: none"> • Complete monthly riverbed monitoring surveys. • Continue reviewing final design packages. • Continue site monitoring at piers and other locations in New Westminster and Surrey. • Continue monitoring main bridge construction and structural steel erection. • Continue monitoring off-site precast panel fabrication activities for the main bridge, north and south approaches. • Continued detailed landscaping plan for the Project.

4.6 First Nations

Scope:	<ul style="list-style-type: none"> • Consultation and engagement with First Nations as set out in the EAC. • Engagement with First Nations on Project opportunities and benefits, including Project agreements and contracting opportunities.
Monthly Highlights:	<ul style="list-style-type: none"> • Facilitation of working group meetings with First Nations. • Continued to progress Indigenous Art and Cultural Recognition opportunities through a phased approach.
Three Month Lookahead:	<ul style="list-style-type: none"> • Continue meetings with First Nations on archaeology, habitat offsetting, Indigenous cultural recognition, the planting plan, environmental compliance and bridge demolition planning. • Continue meetings with the Indigenous Marine Users Working Group.

4.7 Third Parties

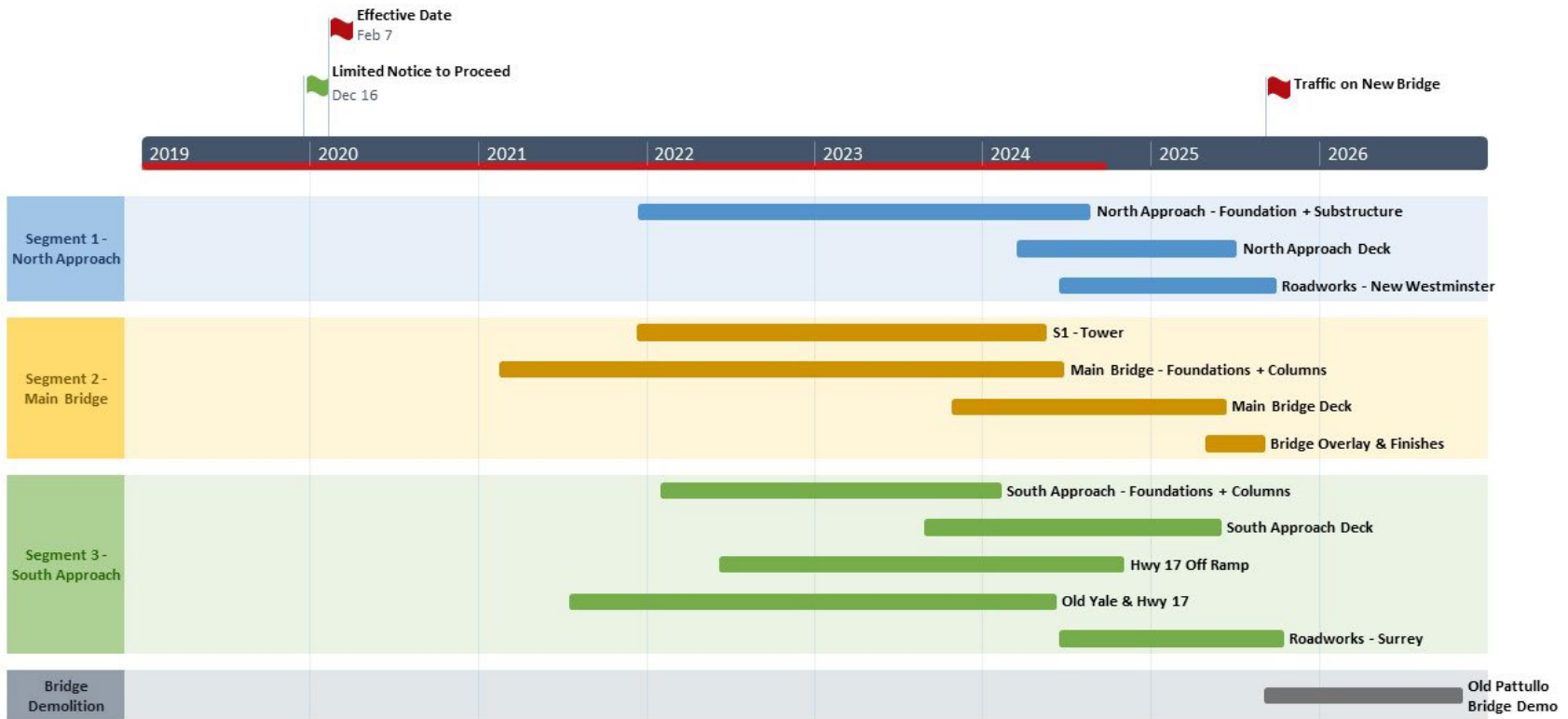
Scope:	<ul style="list-style-type: none"> • Engage with municipalities (cities of New Westminster and Surrey) for the Project implementation phase. • Municipal Agreements. • Railway Construction and Crossing Agreements. • Utility Agreements. • TransLink Agreement.
Monthly Highlights:	<ul style="list-style-type: none"> • Continued meeting biweekly with both the City of Surrey and the City of New Westminster and continued to work closely with both cities on design and construction coordination and traffic management activities. • Continued working closely with utilities and railway companies on design and construction activities. • Continued coordination with CN Rail, CPKC, and Metro Vancouver for pier N1 to pier N2 girder erection, storm outfall construction beneath Front Street, and for main bridge girder erection over CN Rail Bridge swing span. • Continued coordination with Southern Railway of British Columbia to execute permanent crossing agreements along the new Highway 17 south exit ramp, Highway 17, and Bridge Road corridor. • Continued work on the design for repairing the riprap at pier 5 of the CN Rail Bridge, in coordination with CN and the Province.
Three Month Lookahead:	<ul style="list-style-type: none"> • Continue to engage with municipalities on the Project's design and construction plans. • Continue to work with railways to finalize agreements. • Complete the design for Rail Bridge Pier 5 riprap repair.

4.8 Public and Stakeholder Engagement

Scope:	<ul style="list-style-type: none"> • Manage ongoing public and stakeholder communications and engagement.
Monthly Highlights:	<ul style="list-style-type: none"> • Continued to provide updates regarding Project work including notification distribution to residents, businesses, and stakeholders. Notifications were posted to the website, emailed to local residents and business associations, and sent to the email subscription list. • The Project team attended the Downtown New Westminster Business Improvement Association’s “Fridays on Front” event to share information about the Project and answer questions from the community. • Communicated upcoming investigative works in Brownsville Bar Park as well as overnight closures needed on Highway 17, 112/111a Avenue and Bridge Road for deck panel installation work in Surrey. • Notified of nighttime utility and road work on Royal Avenue at McBride Boulevard and on the Bridge Connector, and continued outreach regarding traffic pattern changes as a result of the Front Street closure in New Westminster.
Three Month Lookahead:	<ul style="list-style-type: none"> • Ongoing engagement with the public, residents, businesses and key stakeholders in New Westminster and Surrey regarding upcoming construction work and traffic pattern changes. • Continue regular outreach with resident groups, business associations, the Traffic Advisory Committee and active transportation groups. • Distribute construction notifications and respond to public inquiries.

5. Schedule

The following schedule depicts the estimated timelines from the contract effective date to the opening of the new bridge and removal of the existing bridge, and reflects the updated project schedule announced on May 24, 2024.



6. Project Photos



Figure 1 – In Surrey, crews started to construct the westbound portion of the Old Yale Road Overpass.



Figure 2 – North approach girder erection continued above Front Street in New Westminster.



Figure 3 – In Surrey, crews are installing rebar over the precast deck panels on the south approach.



Figure 4 – Girder erection, deck panel, and stay cable installation for main bridge continues.