

Pitt Meadows Road and Rail Improvements Project

Pitt Meadows, British Columbia



With funding from the Government of Canada (through the National Trade Corridors Fund), the Vancouver Fraser Port Authority (VFPA), and CP, separating rail crossings at Harris Road and Kennedy Road will improve safety by reducing the risk of collisions between trains and road users, improve community access and connections, and improve traffic flow and emergency response options. The project will also provide opportunities for public space improvements and walking and cycling connections.¹

Project Description¹:

The Vancouver Fraser Port Authority (VFPA), in collaboration with the City of Pitt Meadows and Canadian Pacific (CP), is leading the Pitt Meadows Road and Rail Improvements Project that aims to eliminate the existing rail crossings at Harris Road and Kennedy Road. Pitt Meadows is home to two of the busiest rail crossings in the Lower Mainland along CP's busy Cascade Subdivision. Currently, these two rail crossings are blocked each day by trains for an average of 3.5 hours and 1.75 hours, respectively. The goal of this project is to mitigate impacts of growing rail and port trade traffic on the Pitt Meadows community, and improve safety. The project includes a new four-lane underpass below CP at Harris Road, and a new two-lane overpass on Kennedy Road over CP. Work on the Kennedy Road overpass has been paused with priority being given to the Harris Road underpass.

Project Responsibilities:

Stantec is partnered with WSP as Owner's Engineer for the Vancouver Fraser Port Authority. Through agreement with Stantec, Richard Lanyi (Lanyi Rail Solutions Ltd.) fills the role of the Owner's Engineer Rail Lead, to support teams of railway track and structures engineers providing technical direction and coordination support for the project. Harris Road, in particular, has significant spatial constraints. In addition, CP's Cascade Subdivision is one of their busiest in the Lower Mainland with up to 30 mainline trains per day. Design concepts have been developed to minimize construction disruptions to CP's mainline operations, as well as, access to CP's Vancouver Intermodal Facility located between Harris Road and Kennedy Road.

Richard's specific responsibilities on the project have included the following:

- Reference concept designs for the Harris Road underpass structure and proposed track detours to accommodate staged construction
- Reference concept designs for the Kennedy Road overpass structure to ensure CP's design requirements were met regarding construction activities adjacent to and over their mainline Right of Way
- Liaison and design coordination with CP's engineering, operations, and public works teams
- Liaison with West Coast Express regarding temporary impacts to the existing Pitt Meadows Station
- Constructability reviews and coordination with roadworks, drainage, and utility relocations
- Preparation of Design Build procurement documents for Rail works and technical support through the procurement process

Client: Vancouver Fraser Port Authority

Role: Owner's Engineer Rail Lead

Duration: November 2019 to present

Project Value: > \$141M CDN

Project Delivery: Progressive Design Build (Harris Rd)

¹ City of Pitt Meadows - Pitt Meadows Road and Rail Improvements Project website