George Massey Tunnel Transmission Relocation Project

Metro Vancouver

George Massey Crossing Task Force

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Project purpose

As a new tunnel is planned, a section of our power line needs to be relocated

- The Province proposes to replace the existing four-lane George Massey Tunnel with a new, eight-lane immersed tube tunnel
- The existing tunnel will be decommissioned by 2032, once the new tunnel is in operation
- We have a section of power line in the existing tunnel that will need to be relocated

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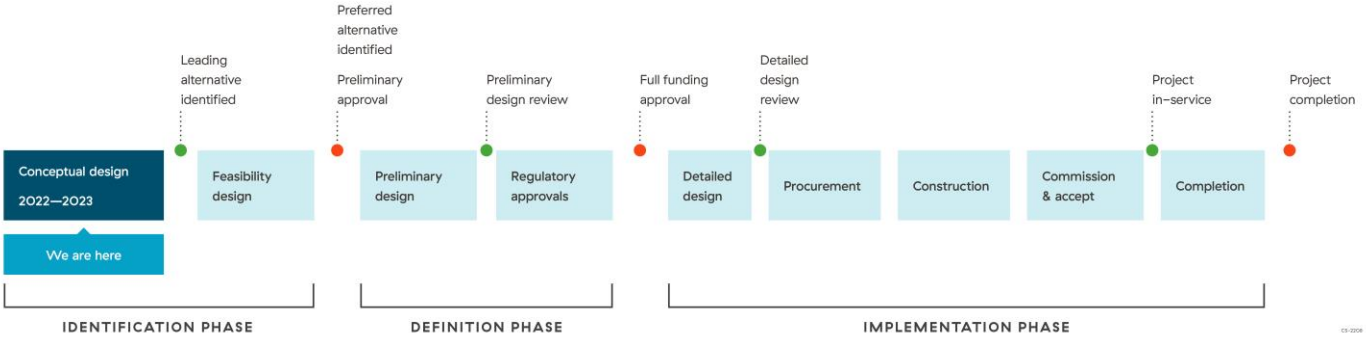
Typical project lifecycle



- This project is in its earliest days and a project timeline hasn't been established.
- We will identify an estimated project timeline after a leading alternative has been identified in 2023.

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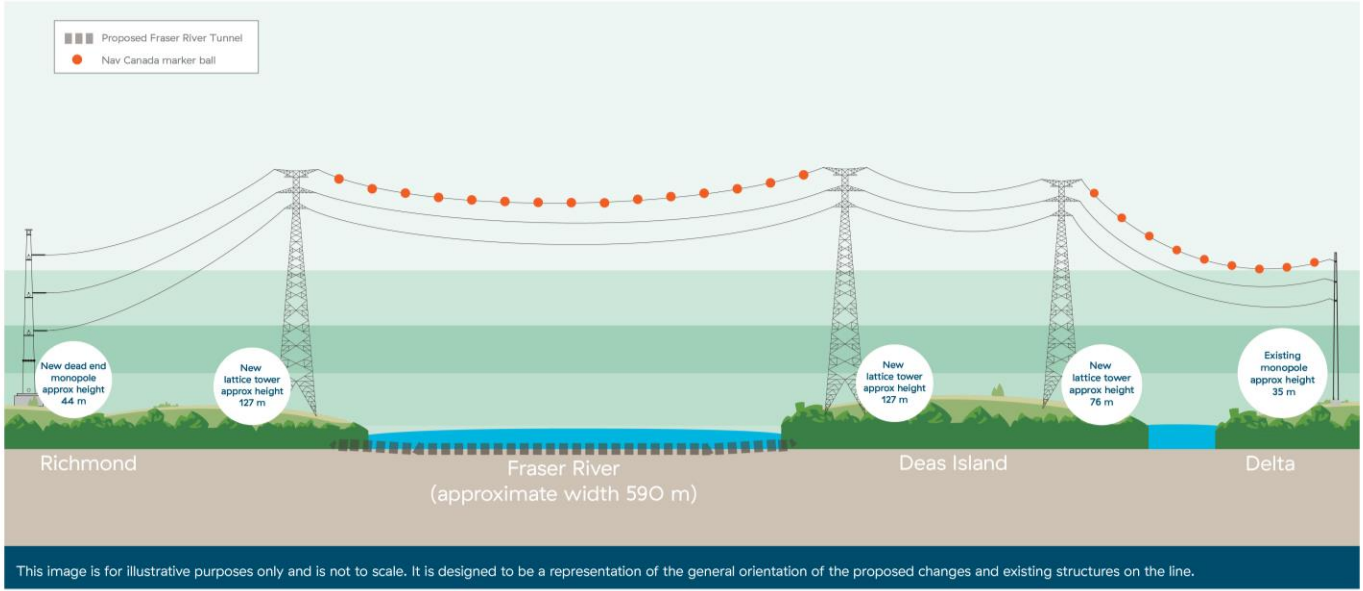
Relocation alternatives

Alternative 1: Overhead line



- A new, overhead line across the Fraser River to connect with existing overhead lines in Delta and in Richmond
- This line would be adjacent to the Province's proposed immersed tube tunnel
- Design is based on the previous project

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Example of crossing structure

Existing 230 kilovolt Fraser River crossing between Richmond and Delta
View from River Road, looking north

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Alternative 1 - Richmond

Alternative 1 - Richmond

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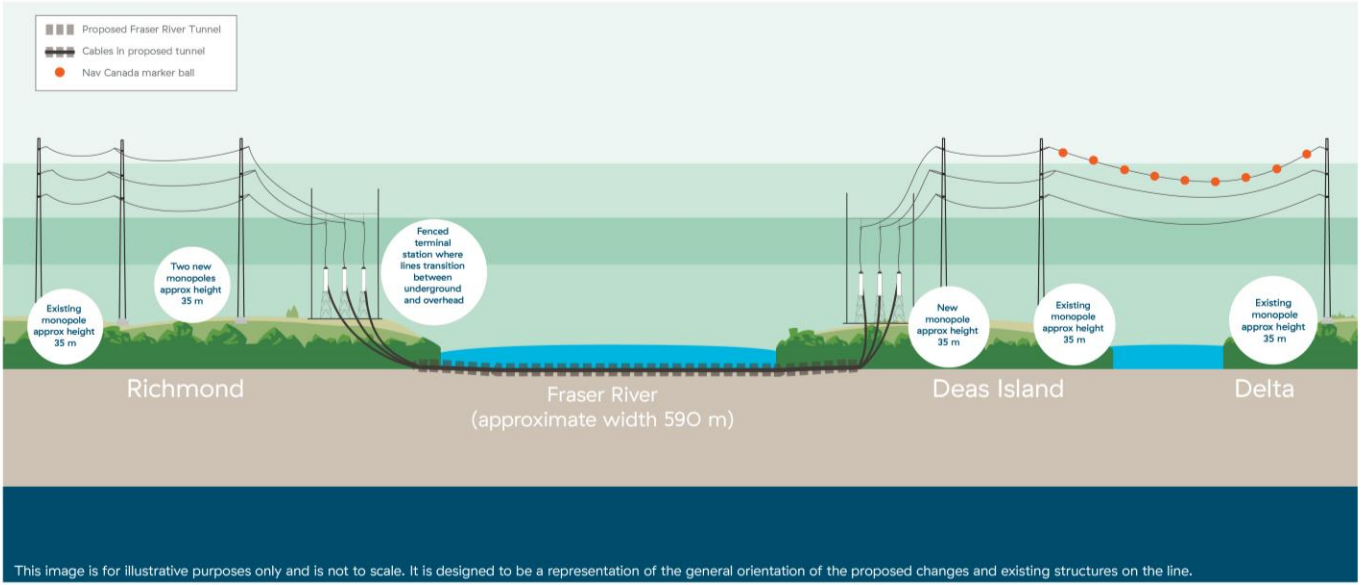
Alternative 1 – Deas Island, Delta

Alternative 1 – Deas Island, Delta

Relocation alternatives

Alternative 2: Underground line in the proposed immersed tube tunnel



- A new, underground line built within the Province's proposed immersed tube tunnel
- The placement of this infrastructure within the tunnel requires provincial approval, which is under discussion.

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Alternative 2 - Richmond

Existing above-ground terminal station in Richmond (approx. 850 m^2)

Alternative 2 - Richmond

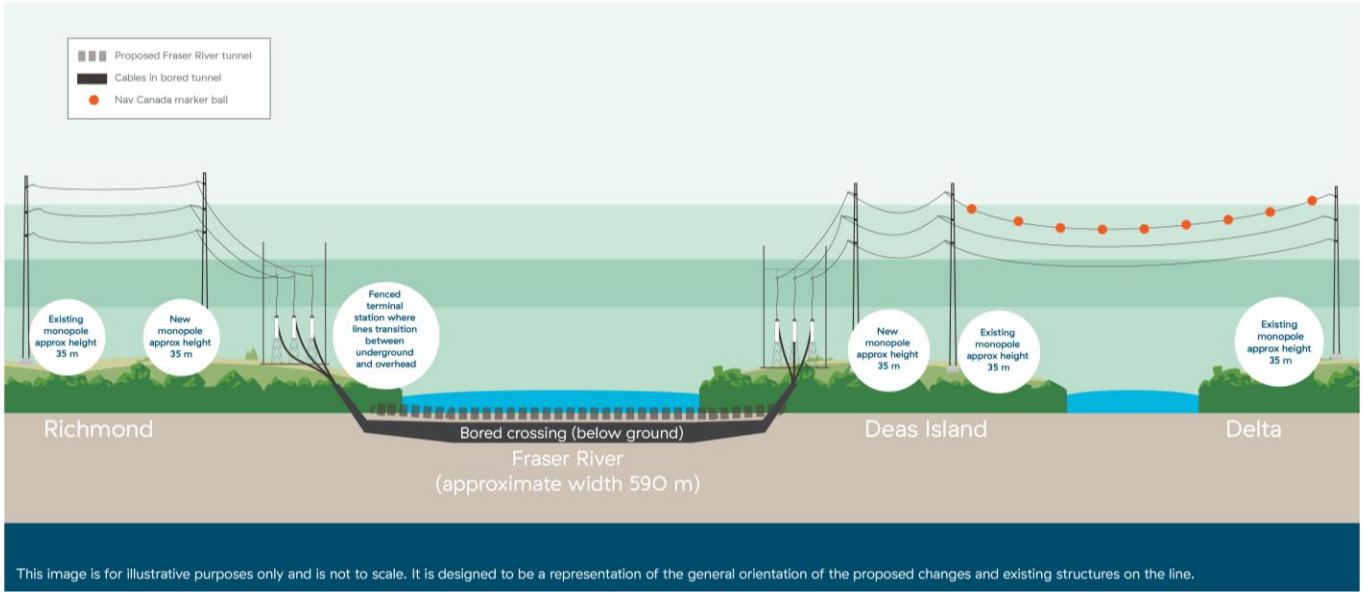
Alternative 2 – Deas Island, Delta

Existing above-ground terminal station on Deas Island (approx. 850 m^2)

Alternative 2 – Deas Island, Delta

Relocation alternatives

Alternative 3: Separate underground line



- A new underground line separate from the Province's proposed immersed tube tunnel
- This alternative has the highest geotechnical and environmental risks

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Alternative 3 - Richmond

Alternative 3 – Deas Island, Delta

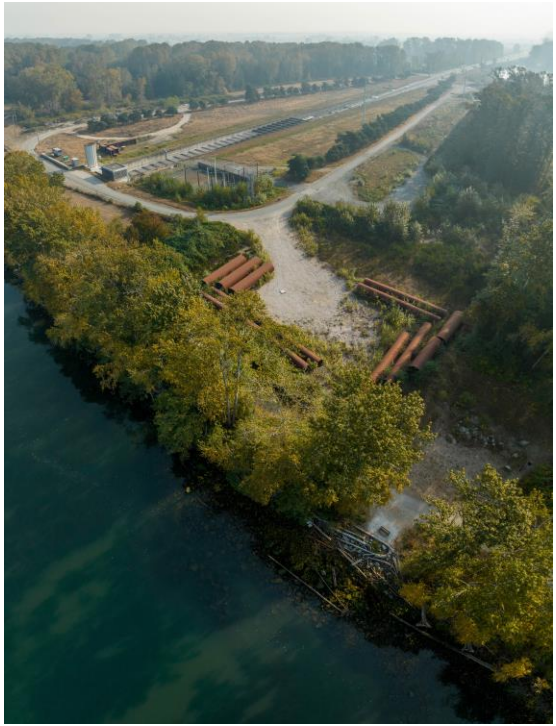
Key activities

2022

- Project launched in July
- Began consulting with Indigenous Nations
- Met with Metro Vancouver staff

2023

- Ongoing consultation with Indigenous Nations
- Complete a high-level design concept for each alternative
- Complete draft of environmental and archaeological overview assessments
- Public engagement underway; completed 3 online open houses; online survey
- Identify a leading alternative



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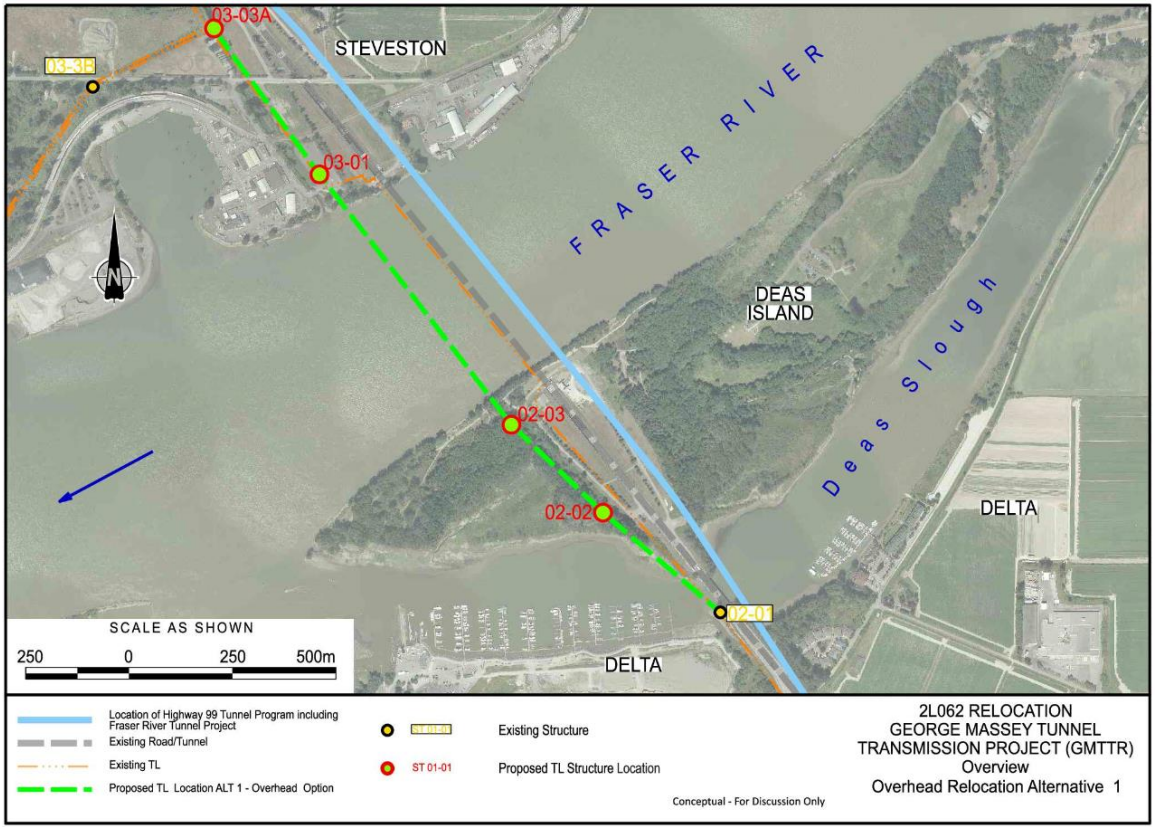
Alternative 1: Overhead line



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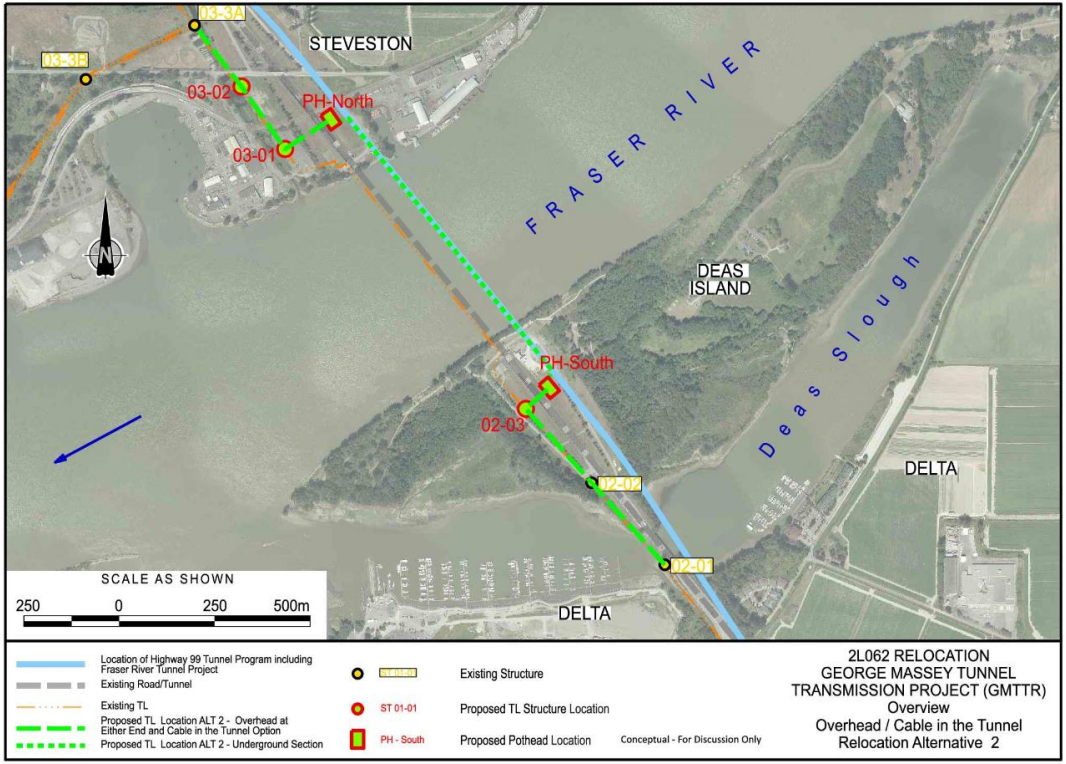
Alternative 2: Underground line in the proposed immersed tube tunnel



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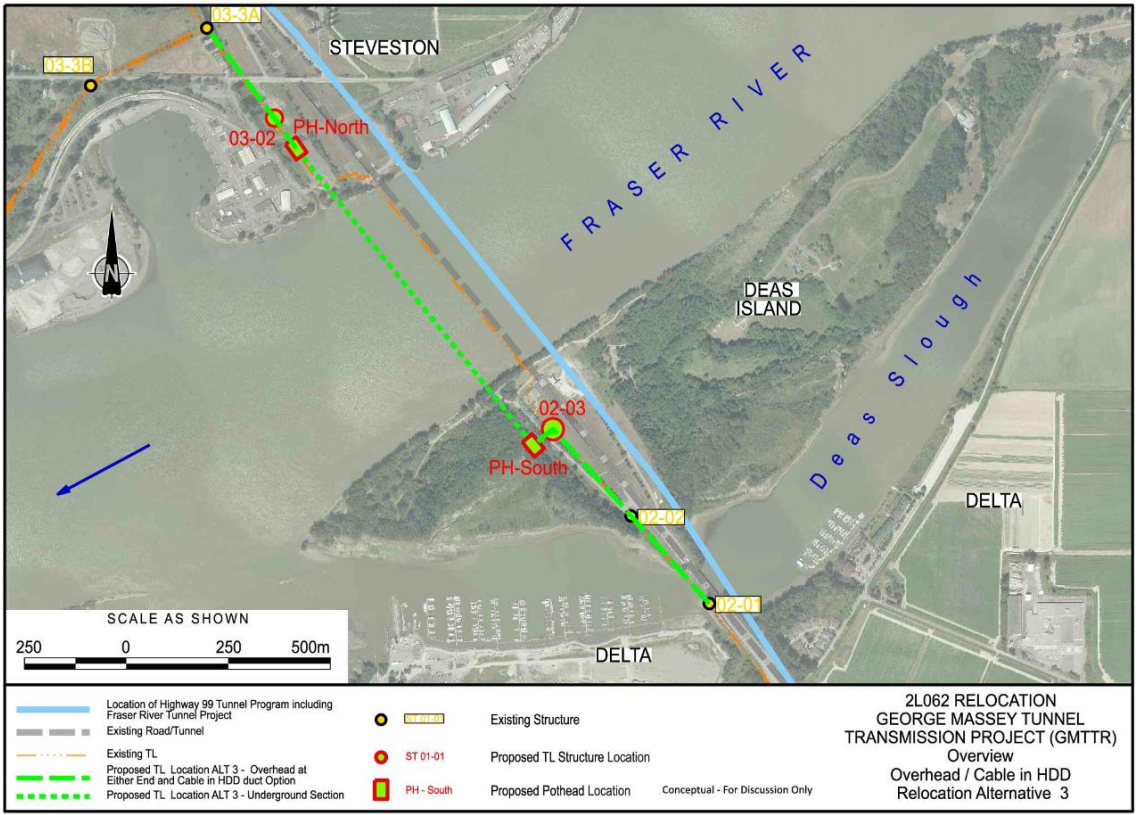
Alternative 3: Separate underground line



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