

West End Substation

Delivering clean, reliable
power to downtown Vancouver



JANUARY 2023

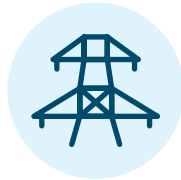
 **BC Hydro**
Power smart

Substations help power your community



British Columbia is powered by water—we generate clean, renewable electricity using hydroelectric dams

Transmission lines move high voltage electricity from generating stations to communities across the province



In local substations, the high voltage electricity is reduced to a lower voltage for use in your homes and businesses

In Vancouver, the West End community is served by the Dal Grauer substation on Burrard Street



This ageing substation needs to be replaced and it can't be redeveloped in place

Replacing this substation is one part of our plan to keep delivering clean, reliable power to downtown Vancouver



It's our job to keep the lights on

We are reaching back out to you—the people who live, learn, work and play in the West End—to share an update on the West End Substation project and how you can get involved with planning for the new substation.

At BC Hydro, we provide the clean, reliable power you need, but our electricity system serving downtown is ageing and needs upgrading. We're starting this important work by replacing the Dal Grauer substation on Burrard Street.

The Dal Grauer substation was energised in 1953 and your community and energy needs have changed a lot since then. The substation is reaching end-of-life, it doesn't meet current seismic standards and can't be rebuilt where it is.

The West End substation will be located underground at the Vancouver School Board's Lord Roberts Annex property. Over recent years, we've obtained the property agreements we need to build a new underground substation and connect it to the existing downtown power system so that it can power your homes and businesses.

THE NEW SUBSTATION WILL BE BUILT TO:

- Operate safely—like hospitals and fire stations, it will withstand a major earthquake
- Meet your community's electricity needs for years
- Operate out-of-sight—topped with a new playing field

Building this new substation underground on public property protects limited land in the West End for housing stock and means that our property acquisition funds are being reinvested locally in:



A new school in Coal Harbour



A new school at the Lord Roberts Annex site



Improvements to parks

The new West End substation

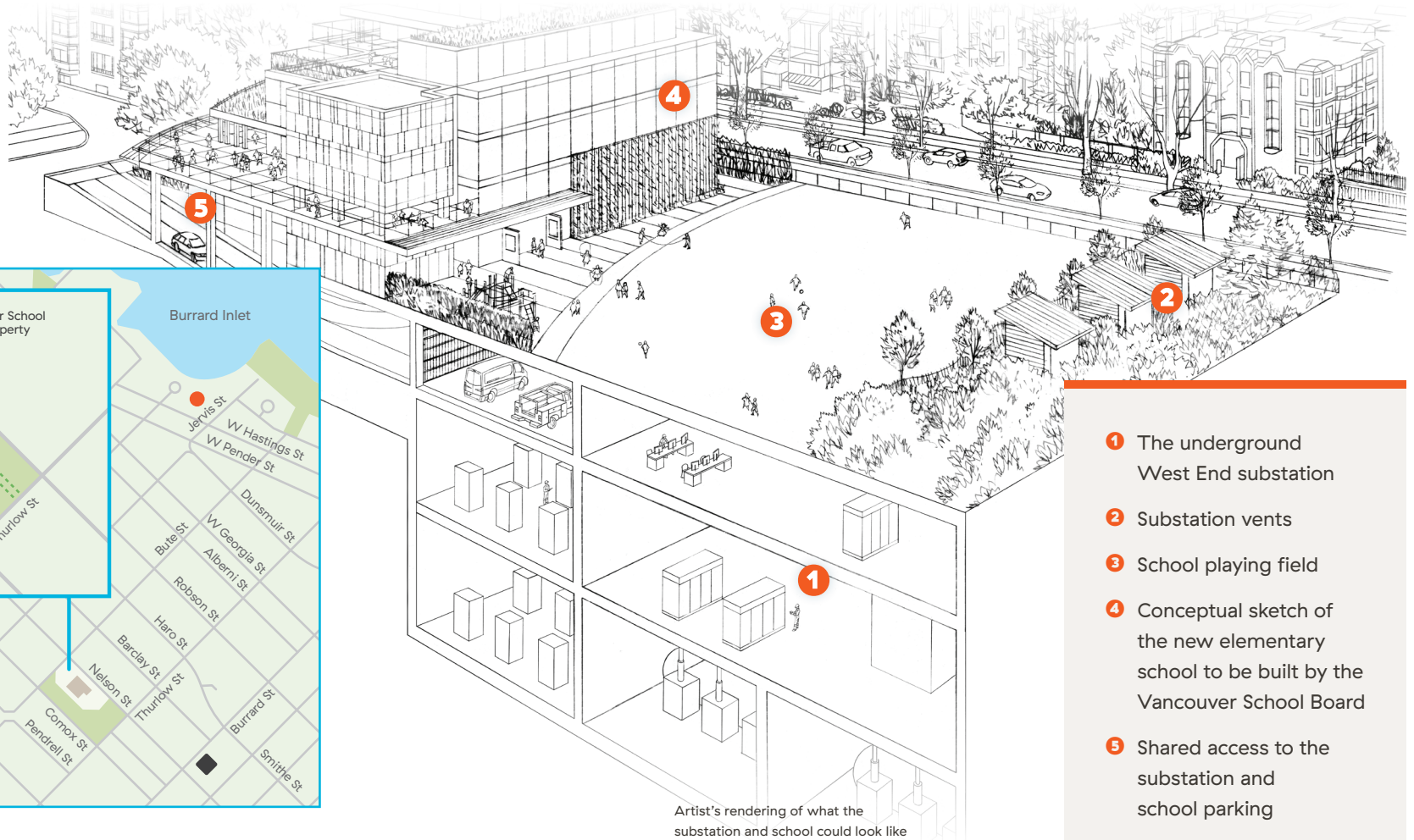
We're planning to build the West End substation underground at the Lord Roberts Annex site. Once the substation is operational, all you will be able to see are the vents and our employees visiting from time to time.

The Vancouver School Board is planning a new elementary school for the Lord Roberts Annex site, which will be built adjacent to the substation. And the substation roof will be topped with a new school playing field.

We expect it will take about five years to build the new substation. For about three years, we will excavate the site and build the structure up to

ground level, including the roof. This is a similar approach to building condo foundations and underground parking. Over the next two years, we'll install the substation equipment into the underground structure, which will be less visible work.

We'll also need to connect the substation to the existing electrical system downtown with new underground powerlines. To do that, we'll dig two trenches through Nelson Park, install cables and refill the trenches. This should take about two months and will be completed over winter when the farmers market has closed for the season and the park is less busy.



Artist's rendering of what the substation and school could look like at the Lord Roberts Annex property.

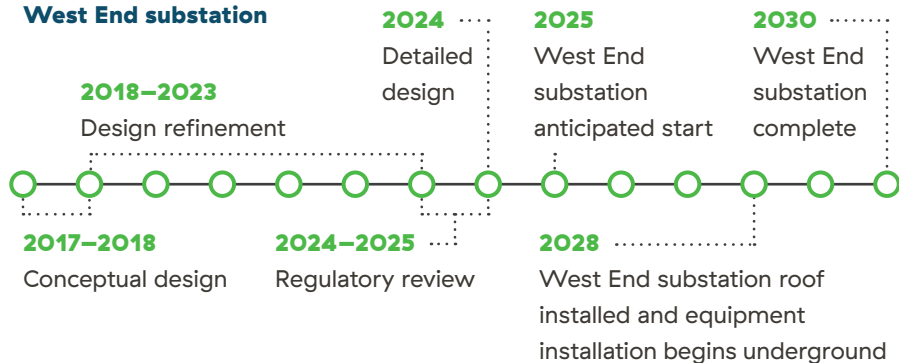
- 1 The underground West End substation
- 2 Substation vents
- 3 School playing field
- 4 Conceptual sketch of the new elementary school to be built by the Vancouver School Board
- 5 Shared access to the substation and school parking

Project timeline

Community consultation



West End substation



Our highest priority is safety

We will build the new substation to rigorous safety and environmental standards.

We safely operate more than 300 substations throughout the province, including an underground substation in Vancouver beneath Cathedral Square Park.

Community input so far

We know that substation construction will affect those in the local neighbourhood.

During two previous rounds of consultation, in 2017 and 2018, we heard that your community is interested in:



Safety



Construction impacts



Operational impacts



Green space and trees



Relocating students and play equipment



Electric and magnetic fields

We've shared information about these topics and made commitments about how we'll avoid or mitigate impacts. You can find this information in our 'commitment memos' on our website at bchydro.com/westendsub.

MORE OPPORTUNITIES FOR CONSULTATION

We'll keep working with you between now and the start of construction to understand your interests and concerns, and in the coming years, we'll ask for your input on:

- The look of the vents
- How you'll be affected by construction and how we might mitigate those effects
- Who should sit on our community advisory committee to regularly share community input and hear in-depth information about the project
- The best ways to keep you informed



Stay in touch

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