99 Street Underground Pedway
Detailed Design

January 2024

Planning and design continues for a new underground pedway in Edmonton's downtown!

A new pedway will be constructed under 99 Street from the Churchill Capital Line LRT Station (102A Avenue) to the upcoming Station Lands development (north of 104 Avenue). The pedway will add an essential link to the City's downtown underground pedway system. No major changes have taken place in the design since the Preliminary Design was shared in July 2023.

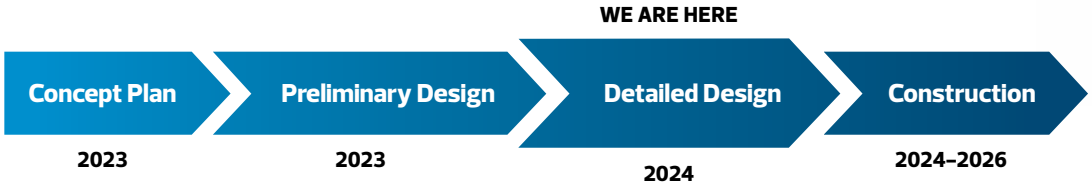
Surface access for the pedway is planned on the island within the transit loop north of 103A Avenue between the CN Tower and the Royal Alberta Museum.

This project will:

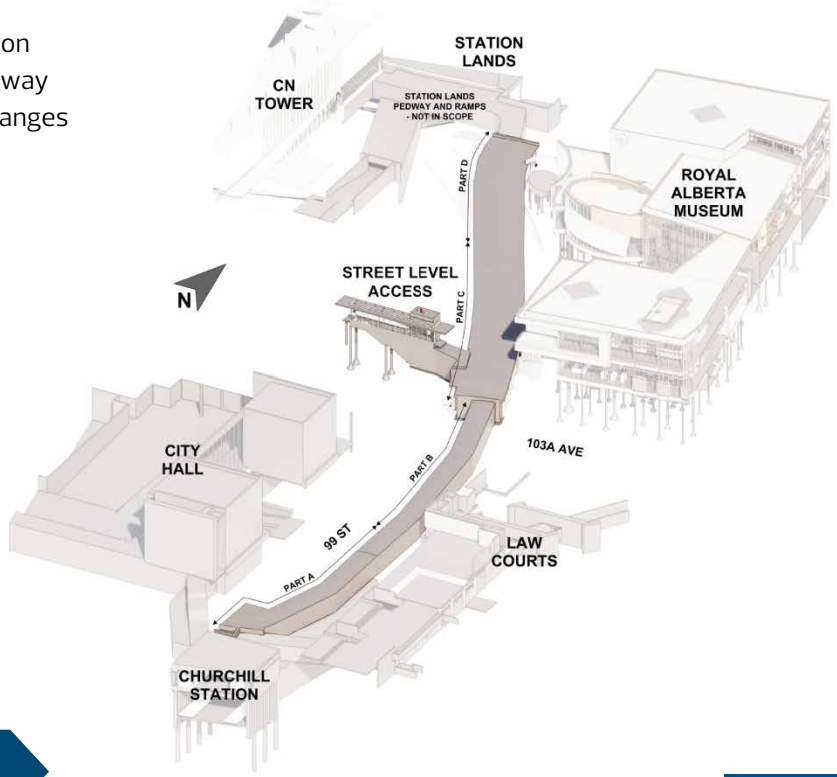
+ Contribute toward a sustainable, vibrant, and accessible downtown
+ Provide a safe, attractive, comfortable and welcoming place for all users
+ Support the needs of adjacent land uses, redevelopment, and nearby communities
+ Provide and enhance vital links to downtown destinations

This project is currently funded for the completion of construction.

Project Timeline



Overall pedway alignment



SHARE YOUR VOICE
SHAPE OUR CITY

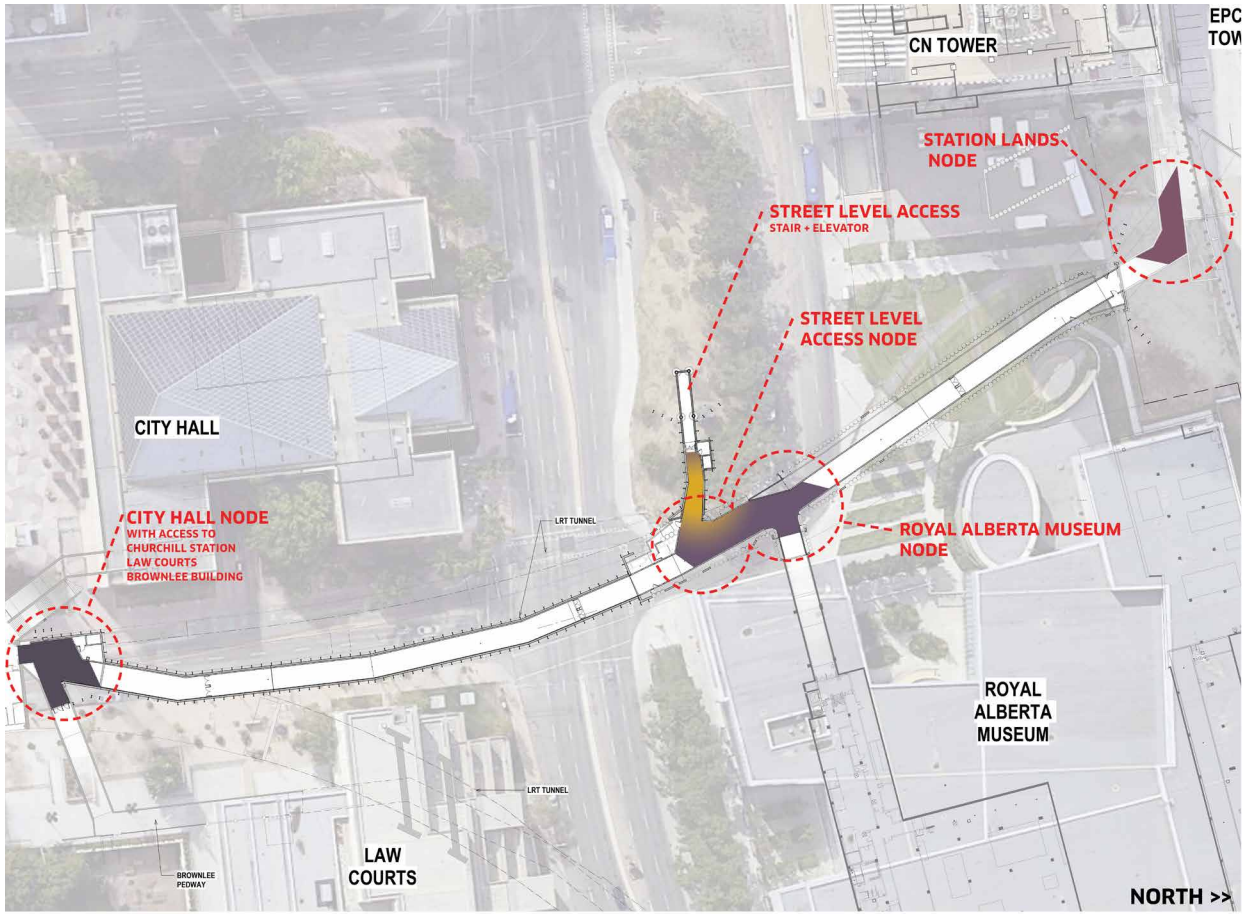
Edmonton

Connections to Destinations

While the pedway provides a direct connection from the Churchill LRT Station to Station Lands, it also provides links to other key destinations:

- The downtown LRT concourse, City Hall and the pedway to the Provincial Law Courts and Brownlee Building via the Churchill LRT Station
- Royal Alberta Museum
- 103A Avenue/104 Avenue via street level access

Pedway map and connections



Design Considerations

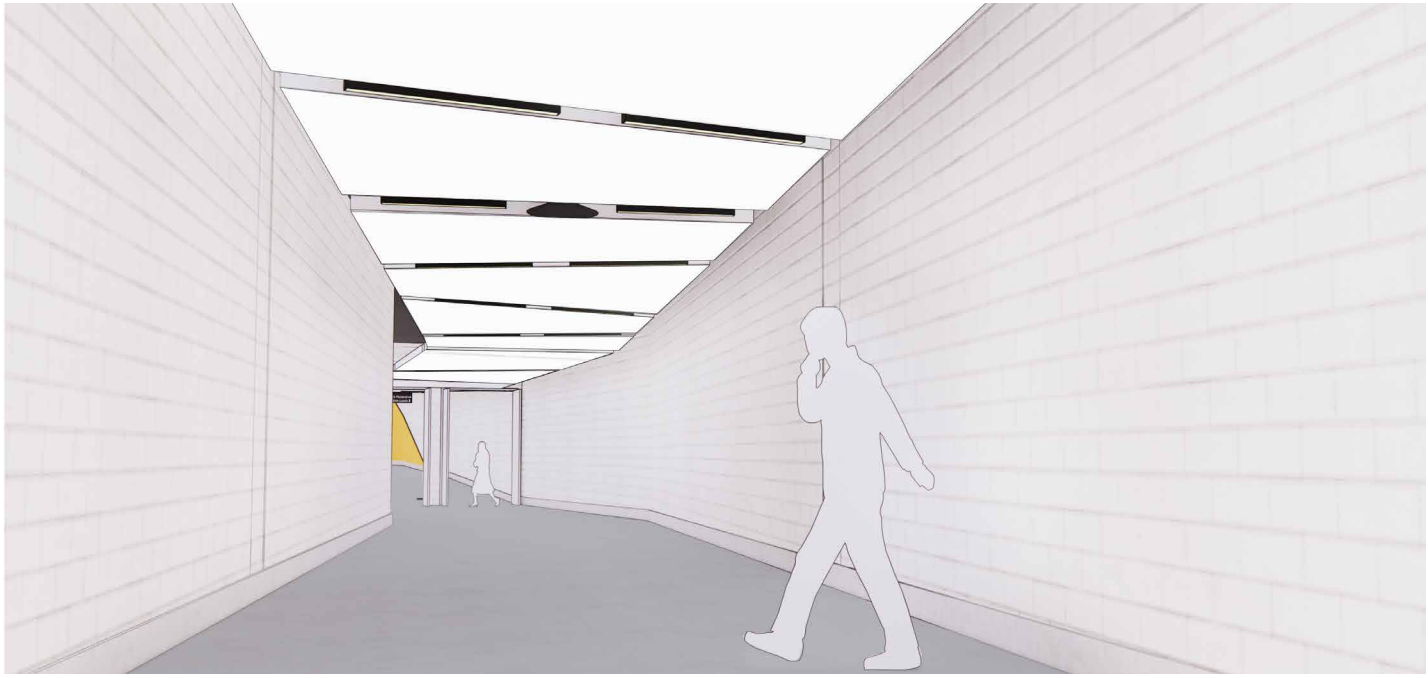
This project provides the opportunity to create a vibrant, engaging and inclusive public space to support the transformation of Edmonton's downtown.

Key considerations for the pedway design include:

- Safety and emergency access – design uses **Crime Prevention Through Environmental Design (CPTED)** principles and includes measures to enhance user safety
- Lighting and ventilation – lighting and ventilation will provide a comfortable environment and enhance user safety
- Wayfinding and signage – clear and easy-to-understand directional and other signage will assist users in reaching destinations
- Accessibility – accessible for users with disabilities with ramps and elevators, and tactile flooring for the visually impaired
- Durability and maintenance – materials and construction methods are durable and easy to maintain for the long term
- Connectivity – provides links to transit and LRT, as well as key downtown destinations
- Sustainability – materials, products and workmanship selected to minimize environmental impact

Gender-based analysis is applied to all design decisions to ensure diverse perspectives such as gender, race, ethnicity, age and disability are considered.

Rendering of typical pedway corridor

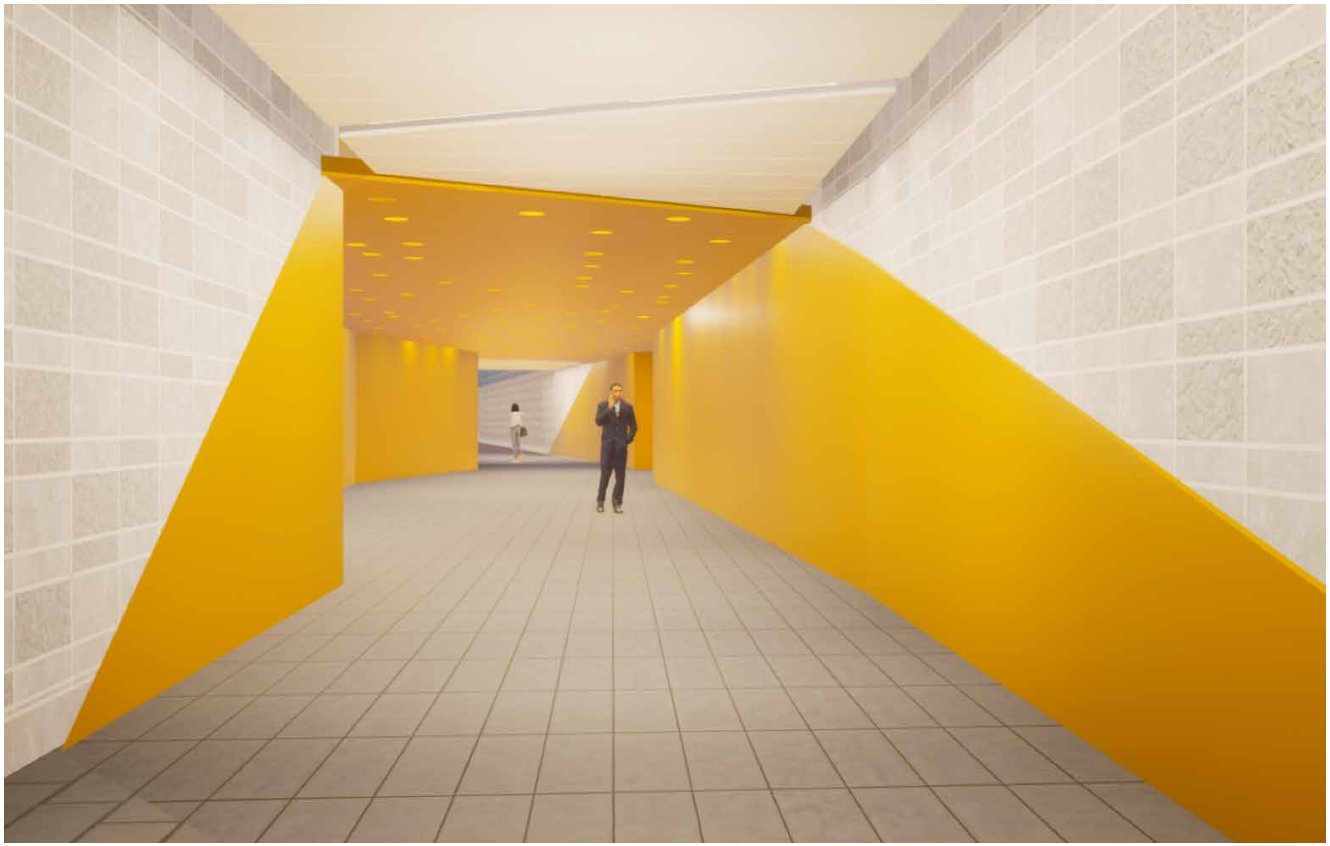


Inclusive Design

Accessibility is a key goal and specific design elements have been included to ensure users of varying demographics and abilities will be able to access and use the pedway.

- Lighting levels in all locations promote high visibility
- Elevator access provided in a central, public location
- Ramps avoided by using gentle slopes where necessary
- Tactile elements added at stairs and locations where the pedway direction changes
- Slip resistant surfaces chosen for floors and walkways
- Minimal doors in the design allow for free-flow pedestrian movement
- Noise control treatment added to ceilings
- Signage design elements reduce confusion and offer clarity for wayfinding

Rendering of underground pedway traveling north, approaching Royal Alberta Museum access



Safety

The safety and comfort of users is a priority. The following design elements will enhance safety:

- Reduce or eliminate blind corners
- Increase transparency/visibility through spaces including doors and exterior walls
- Eliminate dead-end locations and provide clear exiting strategies and wayfinding
- Provide additional lighting and brightness through material selections
- Provide alternative ways to reach destinations
- Activate the street level island

Rendering of street level access: stair and elevator, west of Royal Alberta Museum looking northwest



Sustainability

The City of Edmonton considers sustainability in all development projects to minimize the impact on the environment both during construction and over the long term.

This project includes the following practices, where appropriate and possible:

- Use of recycled materials
- Re-use of waste materials
- Protection of mature trees and landscaping
- Use of low maintenance materials to extend lifespan
- Minimizing quantity of materials to reduce use of non-renewable resources
- Control of dust and soil erosion
- Installation of energy efficient mechanical and electrical systems

Diagram of Street level access, stair and elevator, with portion of underground pedway

