

**Calgary**



# Green Line Segment 2A Downtown & Beltline

**April 15, 2021  
6:30 – 8 p.m.**

In the spirit of reconciliation, we acknowledge that we live, work and play on the traditional territories of the Blackfoot Confederacy (Siksika, Kainai, Piikani), the Tsuut'ina, Stoney Nakoda (Chiniki, Bearspaw & Wesley First Nations), the Métis Nation (Region 3), and all people who make their homes in the Treaty 7 region of Southern Alberta.


# How to participate

## Questions and comments can be posted in the chat box of the Microsoft Teams live event


- Questions will be read by the moderator and answered by our presenters following the presentation
- No names will be used when questions or comments are read out during the session

# IMPROVING USER EXPERIENCE

## Translation

To change the caption language, select **Settings**  > **Captions / Subtitles**, and choose the language you want.

## Closed Captioning

To turn on live captions and subtitles, select **Captions/Subtitles On**  in your video controls

For more information on other Teams assistive technologies, please visit:  
<https://engage.calgary.ca/greenline/green-line-session-instructions>

# Today's agenda

1. Welcome and introductions
2. Green Line LRT project update
3. Functional planning and delivery model
4. Engagement journey
5. Segment 2A update
  - Elbow River LRT bridge
  - Beltline
  - Downtown
6. Next steps
7. Questions



# Green Line project update

# Long term vision

A city shaping transit service that **improves mobility** in communities in north and southeast Calgary, **connecting people and places**, and **enhancing the quality of life in the city**.

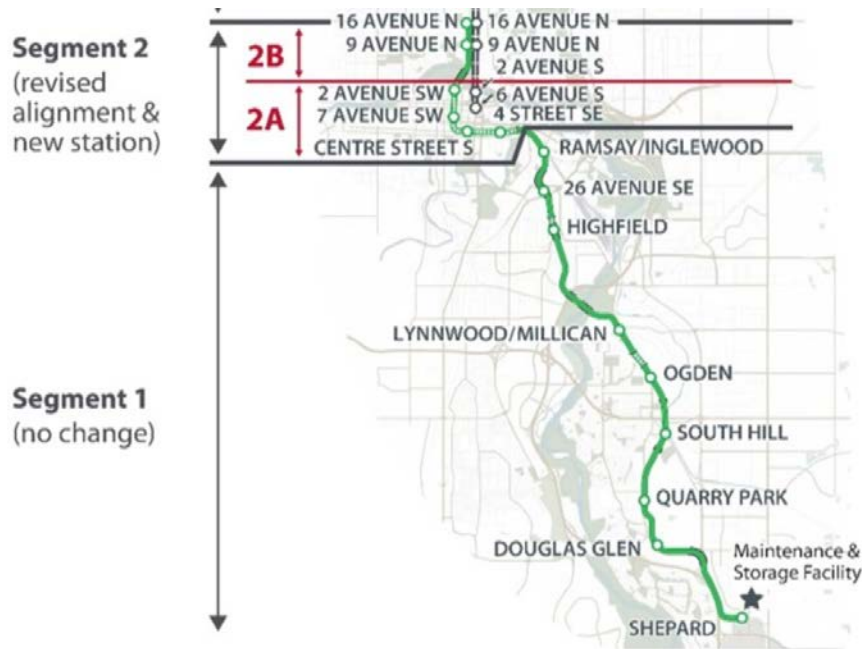
## Once built out, the entire Green Line will:

- Serve Calgarians in 27+ communities
- Support over 220,000 to 240,000 trips per day
- Provide a future airport connection
- Support future Transit Oriented Development (TOD) in 10 stations areas
- Consist of 46 km of track
- Include 28 stations




# Updated Stage 1 alignment

## Stage 1 is funded



Approval of stage 1 was a pivotal first step in achieving the vision of Green Line promised for Calgarians.

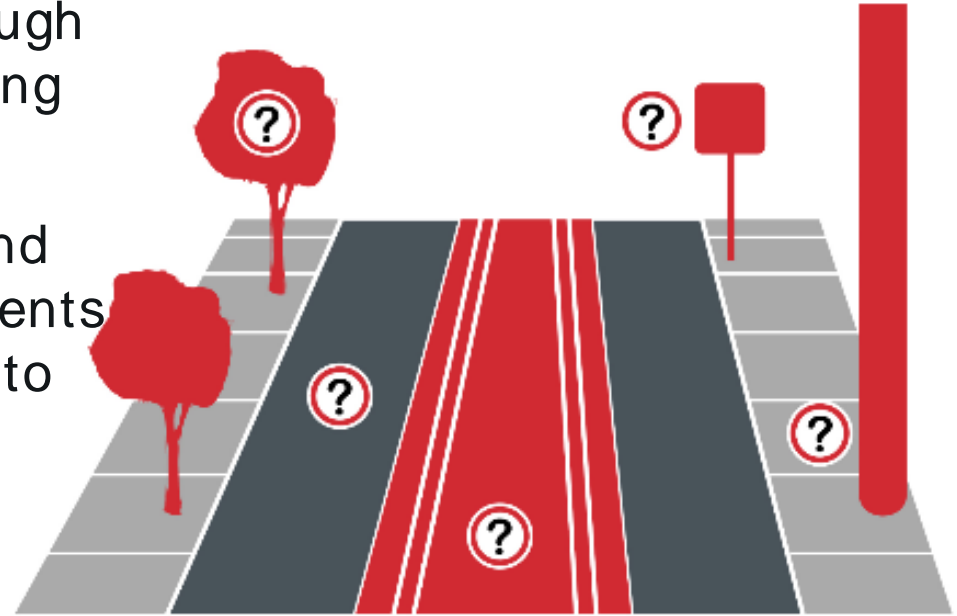
- **20,000** jobs
- **10,000** hours per day
- **Connects** communities

- **Enabling works / utility relocation program**
  - **Segment 1:** 14 enabling works projects completed in 2020, including over 300 utility relocations
  - **Segment 2:** Construction management firm has been selected through procurement process for utility relocation program; Enabling works construction is scheduled to begin this year.
- **Segment 2 functional planning** 
  - Segment 2A (Downtown & Beltline area)
  - Planning in Crescent Heights: Centre Street North Streetscape Masterplan and Crescent Heights Mobility Study
  - North Central Bus Rapid Transit (BRT) Study
  - North Central Mobility Study
  - Bow River LRT bridge
  - Centre Street South Public Realm Improvements

# Green Line functional planning and delivery model

## Segment 2 – Functional planning

- In segment 2 we are moving through a process called functional planning
- This is where we better understand the unique engineering requirements and any specific issues that need to be addressed to develop more detailed plans for the project
- The functional plan will be completed by spring 2021 and will set the stage for procurement in fall 2021





# DBF

## Design-Build-Finance

- The City will be using a design-build-finance (DBF) delivery model, which means that the detailed design process is completed by the contractor



# Engagement journey



# Segment 2 – Public engagement

**Early 2020:** Engagement for segment 2A (downtown/Beltline)

2020

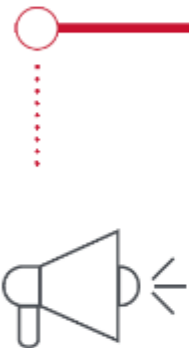
2021

October

November–December

January–February

March–onwards



## Inform

- Keep Calgarians up-to-date on Green Line planning initiatives through online events and electronic updates
- Host an online open house for projects impacting downtown in late-October
- Ensure previous public input informs our technical planning this fall

## Explore

- Present ideas and considerations that will inform functional planning
- Gather input from Calgarians through online engagement

## Evaluate

- Share what we've heard and how it informed proposed concepts
- Gather input to help us evaluate proposed concepts
- Host virtual engagement through online workshops and The City's Engage Portal

## Reveal

- Share what we've heard and how it informed functional planning
- Develop and share final recommendations with Calgarians

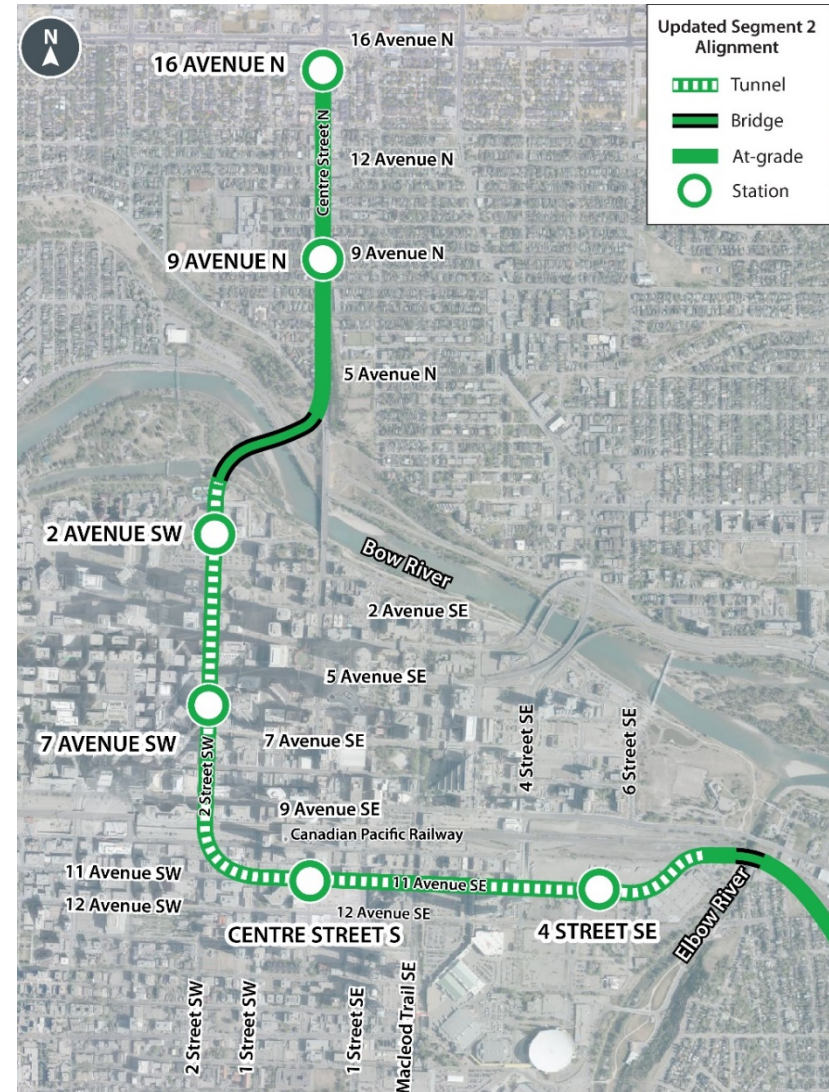
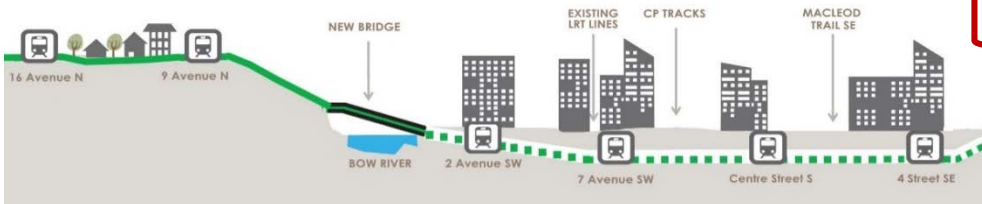
# Green Line segment 2A

# Segment 2 Alignment & stations

- Council approved updated stage 1 concept design in June 2020
- Administration has completed functional engineering plan & planning studies for segment 2

segment  
2B

segment  
2A



## Segment 2

### Alignment comparison

- Q: Complete a cost-benefit comparison based on the Council-approved evaluation criteria themes:

- Mobility
- Development
- Cost and value
- Connectivity
- Environmental
- Risk and constructability

for the 10 and 12 Avenue S. and 11 Avenue S. alignments if the risk adjusted cost estimate for the 10 and 12 Avenue S. alignment becomes less than or equal to the risk adjusted cost estimate for the 11 Avenue S. alignment

- Recommendation:** Proceed with 2020 Council approved alignment in Beltline – 11 Avenue





# Elbow River bridge

## Planning and design objectives

Provide simple LRT bridge that does not compete with adjacent bridges

Incorporate principles of City of Calgary Downtown Underpass Urban Design Guidelines

Provide safe and comfortable pathway experience under and around the bridge

Provide opportunities to incorporate City Shaping / Urban Design elements into design





# Elbow River bridge

## Engineering base concept

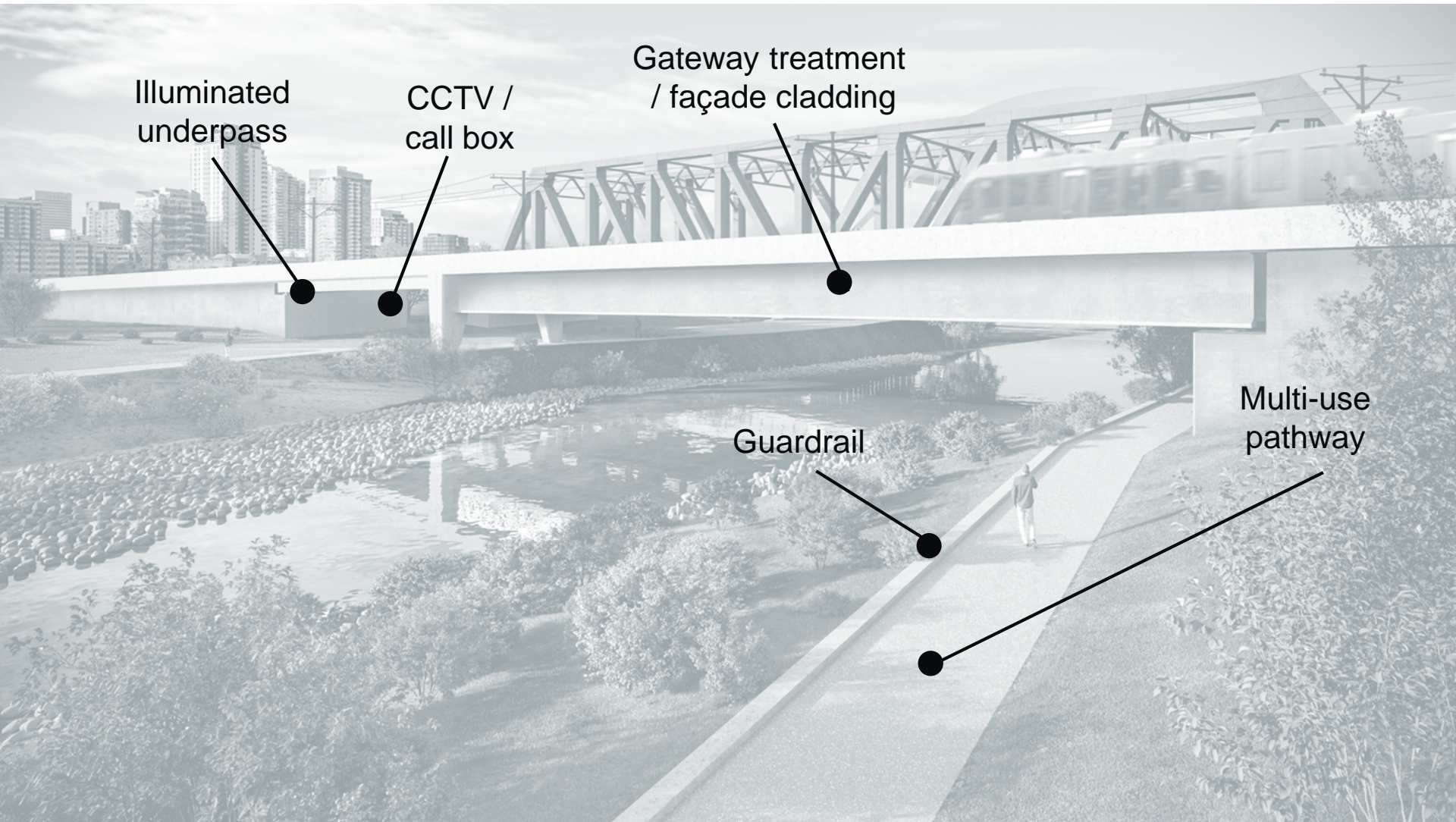


*Illustrative only, for discussion*



# Elbow River bridge

## Urban design concept





# Elbow River bridge

## Urban design concept





# Elbow River bridge

## Urban design concept



*Illustrative only, for discussion*



# Elbow River bridge

## Urban design precedents



**Red Line**  
New Elbow River bridge



**Macleod 162 Avenue bridge**  
Illuminated facade



**Downtown underpasses**  
Illumination, CCTV & call boxes

This engineering plan view illustrates the proposed LRT bridge and pedestrian infrastructure. The plan shows the 'EXISTING CP RAIL BRIDGE' and the 'FUTURE CP RAIL BRIDGE' crossing the 'PROPOSED LRT BRIDGE'. A 'REALIGNED EAST PED PATH' is shown running parallel to the rail lines, with a 'CONNECTOR PED PATH' leading to '8TH ST SE'. The plan includes various stationing points (e.g., PT 0+000.00, PT 0+050.00) and labels for 'POTENTIAL PROPOSED LINE RE-ALIGNMENT' and 'CRITICAL 2.0' WIDE PATH REQUIRED'. The '8TH ST SE' is shown as a 1.50m wide path. The plan also indicates 'POTENTIAL BRIDGE WITHIN RAIL' and 'REALIGNED 2.0' WIDE PATH WITHIN RAIL'.

## Beltline Planning and design objectives

Minimize impacts to the mobility network

Minimize impacts to Stampede Park and existing residential & commercial properties

Locate station to support the vision of the Rivers District Masterplan

Explore opportunities to integrate station entrances into developments

Minimize disruption to Victoria Park Transit Centre operations

Enable future development opportunities and unlock density potential



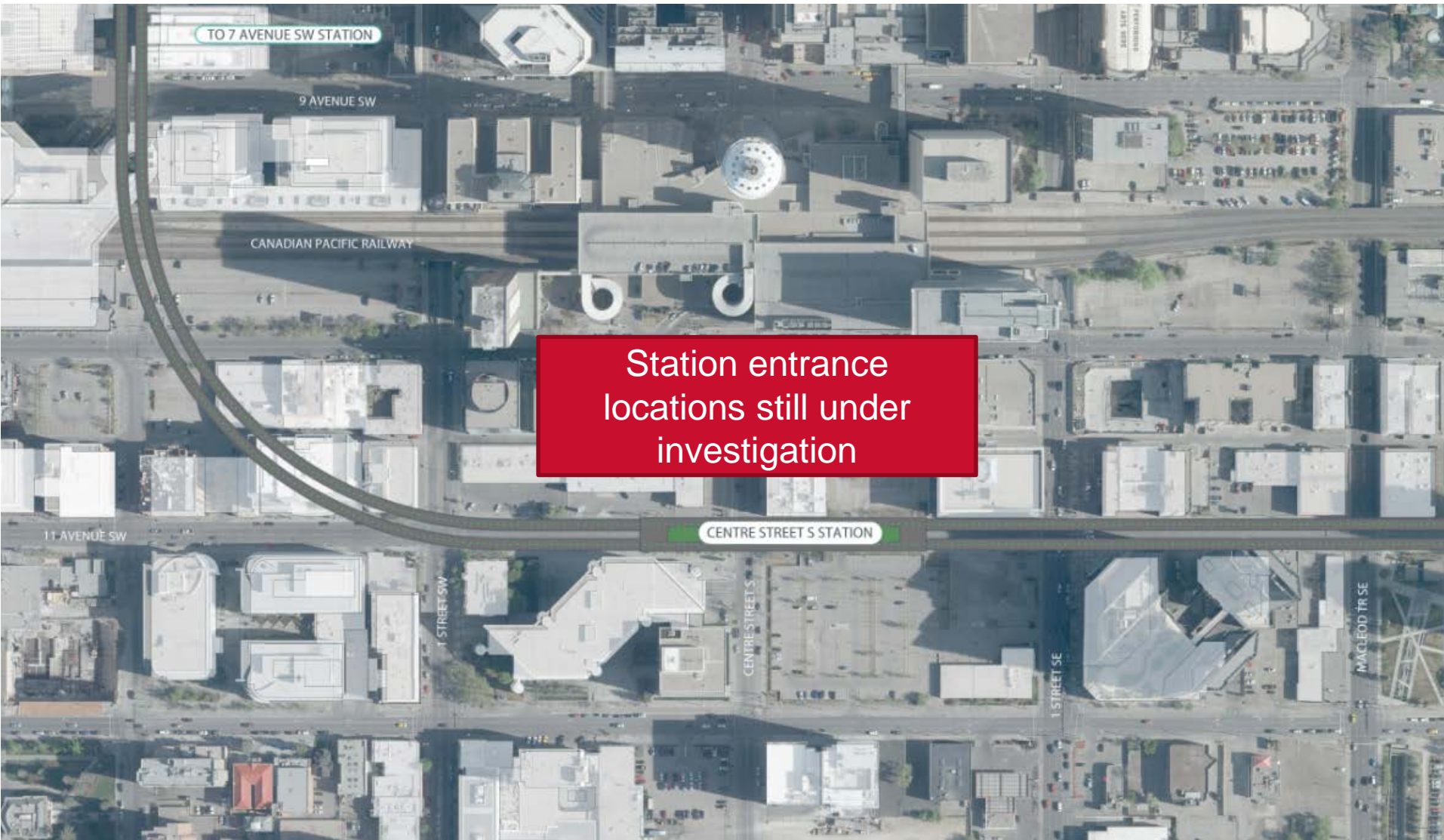
# Beltline - East

## Alignment & station location



# Beltline - West

## Alignment & station location





## Downtown Planning and design objectives

Integrate LRT infrastructure with adjacent development and the public realm

Minimize impacts to existing residential and commercial properties

Provide continued functionality and experience of the river pathway

Enable future development potential

Support continued vibrancy of cultural, social and community activities in the area

Minimize impacts to the mobility network

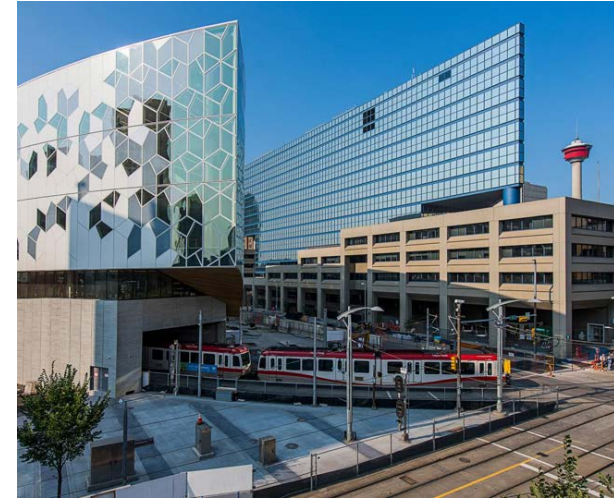
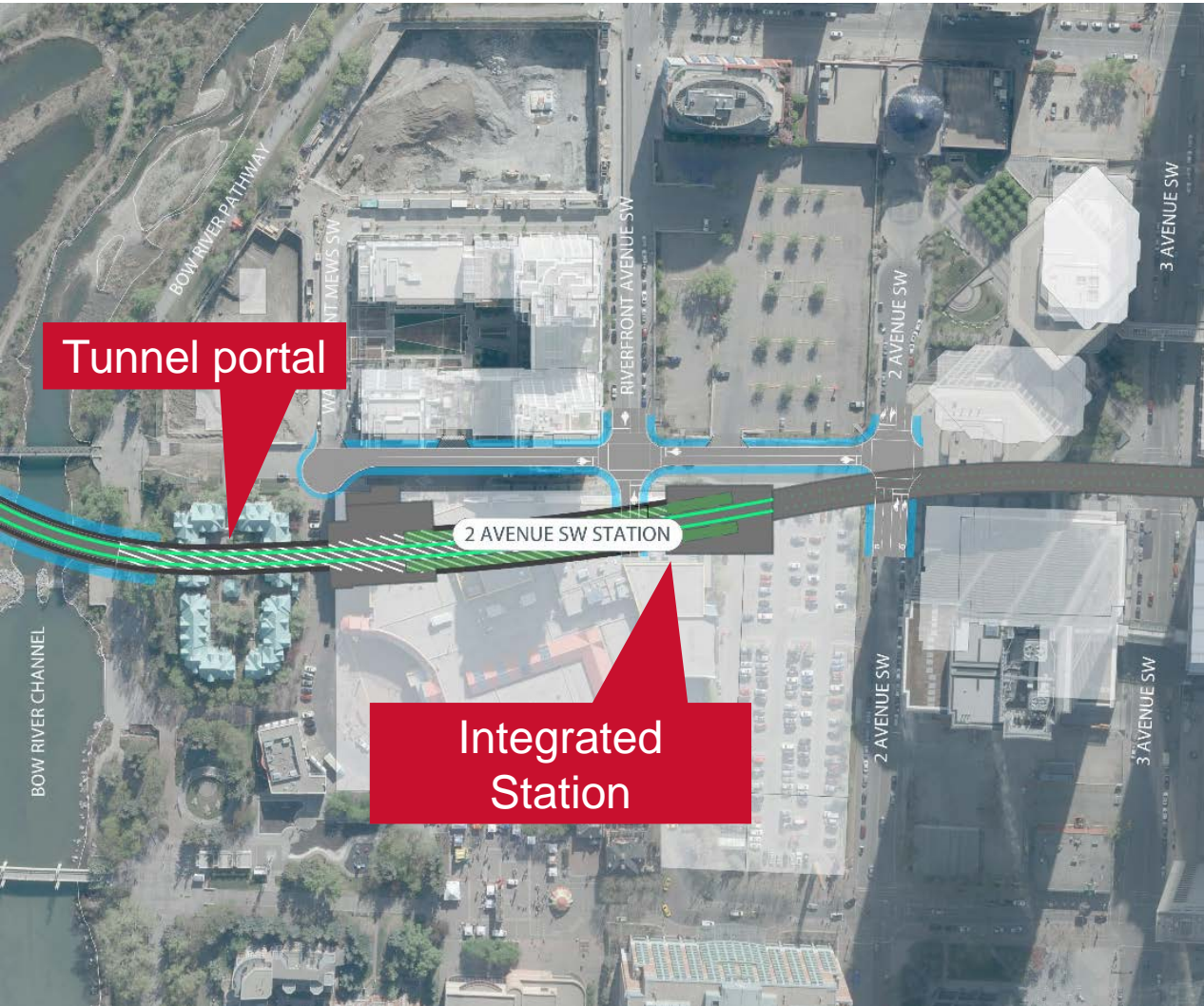


# Downtown Alignment & 7 Avenue station

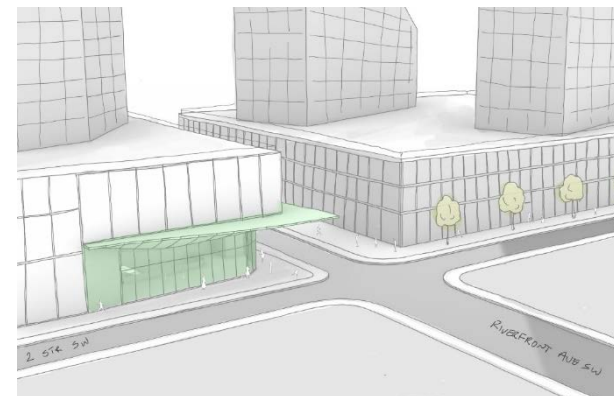




# Downtown Alignment & 2 Avenue station



Integrated station  
inspiration & concept





# Downtown Eau Claire Landing



Birds eye view



# Downtown Eau Claire Landing



View to the east





# Downtown Eau Claire Landing



View from 2 Street to the north





# Next steps



## Drop-in Sessions

Opportunity to speak directly with project teams

- Friday, April 16 from 11:00 am to 1:00 p.m.

## Planning in Crescent Heights Presentation

- Monday, April 19 from 6:30 to 8:00 p.m.

## Bow River LRT Bridge Presentation

- Tuesday, April 20 from 6:30 to 8:00 p.m.

## North Central Mobility & BRT Studies Presentation

- Wednesday, April 20 from 6:00 to 7:15 p.m.

Register at [engage.calgary.ca/greenline](https://engage.calgary.ca/greenline)



## Next steps

### Procurement of DBF Contractor

- Technical Performance Requirements

### Utility relocation program

- Planning & detailed design scheduled to begin in spring 2021
- Construction scheduled to begin in fall 2021

### Streetscape Master Plan for 2 Street S.W.

- Stay tuned for future engagement in late 2021



# Business Support Program

To help businesses and communities **prepare for** and **manage** the impacts of construction

- Business Insights Panel
- Report Back to Green Line Committee (June 2021)
- Utility Relocation Program (Fall 2021)
- Green Line Business Database

Visit <https://greenlinebusiness.questionpro.ca/>

IS YOUR  
BUSINESS  
BETWEEN 16  
AVE N and 126  
AVE SE?

Answer a short questionnaire to join our database of Green Line businesses. Sharing your information will help us plan for Stage 1 of construction.

[Click here.](#)



# Questions?

Post your questions and comments in the chat box of the Microsoft Teams live event



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A nighttime photograph of a city street. On the right, a large, ornate clock tower is illuminated with warm yellow lights. To the left, a modern streetlight with a curved arm is lit, casting a bright blue glow. The background shows other city buildings and a dark sky.

# Thank you!

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