



Lakeshore Transportation Studies

Credit River Active Transportation Bridge Design Workshop



Tuesday, May 3, 2022

Land Acknowledgement

We acknowledge the lands which constitute the present-day City of Mississauga as being part of the Treaty Lands and Traditional Territory of the Mississaugas of the Credit First Nation, Haudenosaunee and the Huron-Wendat First Nation. We recognize the ancestors of these peoples as the inhabitants of these lands since time immemorial.

The City of Mississauga is home to First Nations, Métis and Inuit peoples.

Welcome & Introductions

Thank you for attending this virtual design workshop

Councillor:

- Stephan Dasko, Ward 1

Independent Facilitator

- Sue Cumming, Cumming+Company

Presenters

- Gino Dela Cruz, City of Mississauga Project Manager gino.delacruz@mississauga.ca.
- Nico Malfara, HDR, Project Manager
- Mark Langridge, DTAH, Bridge Architect

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Staff Presentation

Introduction

The Lakeshore Transportation Studies include three infrastructure projects in the Lakeview, Port Credit and Clarkson communities that build from the 2019 Lakeshore Connecting Communities Transportation Master Plan.

Lakeshore Bus Rapid Transit (BRT) Study

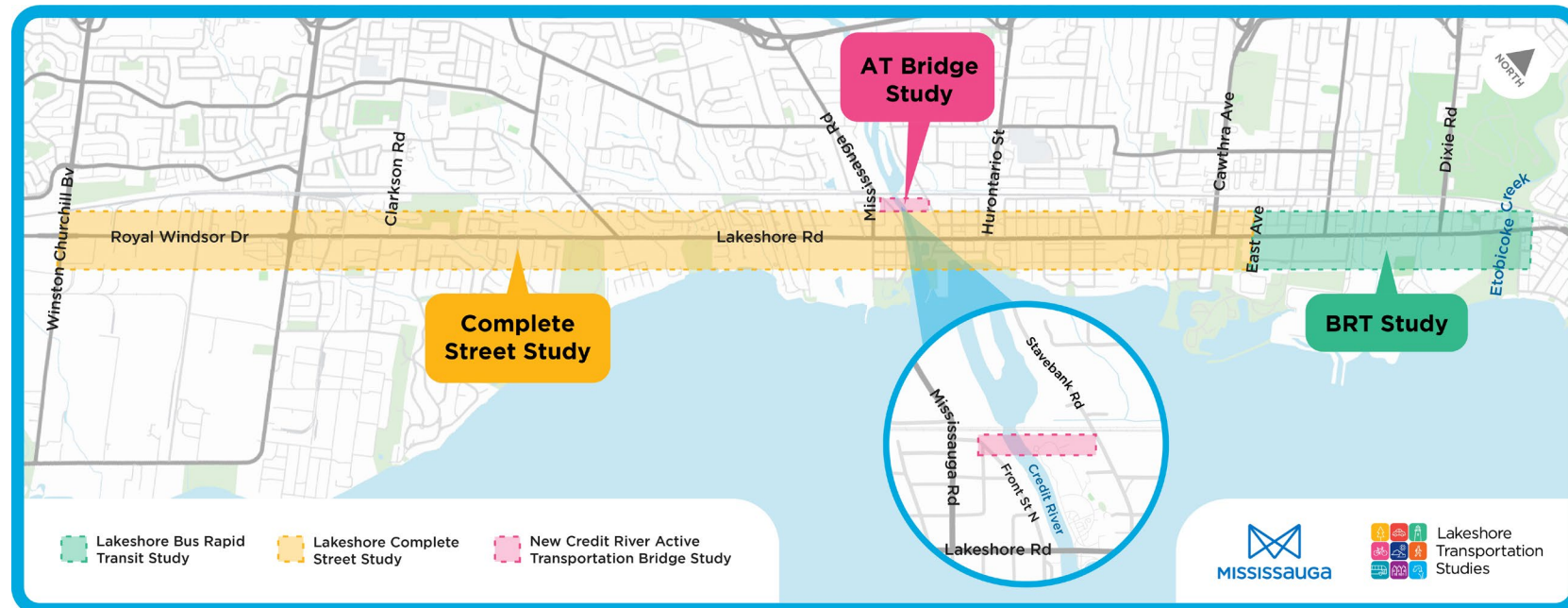
Transit Project Assessment Process (TPAP) under Ontario Regulation 231/08.

Lakeshore Complete Street Study

Schedule C Class EA Study under the Municipal Class Environmental Assessment process (October 2000, as amended in 2007, 2011 and 2015).

New Credit River Active Transportation Bridge Study

Schedule B Class EA Study under the Municipal Class Environmental Assessment process (October 2000, as amended in 2007, 2011 and 2015).



Purpose of the Workshop



Discuss the vision for the Active Transportation Bridge



Gather input on design aspects of the Active Transportation Bridge to inform future detailed design



Present two bridge concepts for feedback and discussion

Format for the Workshop

The project team will provide a live presentation followed by a question-and-answer period.

During the presentation, we will be asking some polling questions to get your feedback on design elements. These will come up on the screen and you will easily be able to enter your selection.

At any time during the workshop, you can ask questions or provide comments by typing these into the **"Q & A"** section and the Independent Facilitator will read out the questions for the project team to respond to.

Your name will not be read aloud when questions are asked.

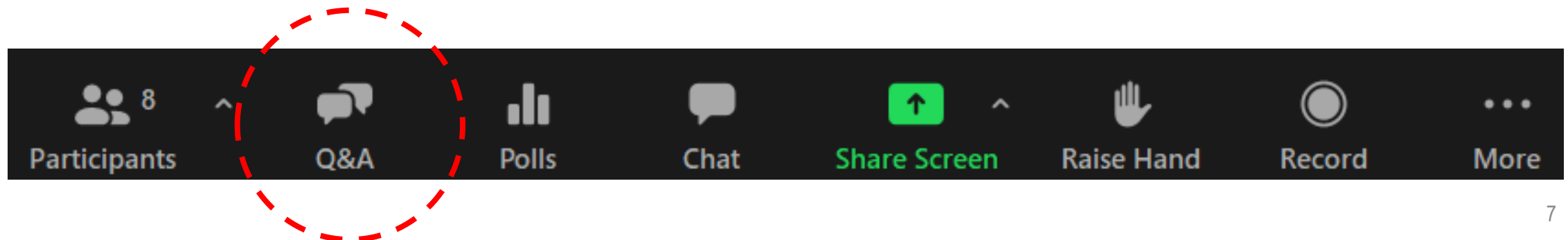
Polling 1: Polling QuestionsEdit

1.What is your favorite color?

☐ Red

☐ Green

☐ Blue



Other Ways to Provide Input

Take the Survey:

If you would like to provide additional feedback, please complete the survey at mississauga.ca/lakeshore-transportation. The survey will be available from **April 26 to May 10, 2022**.

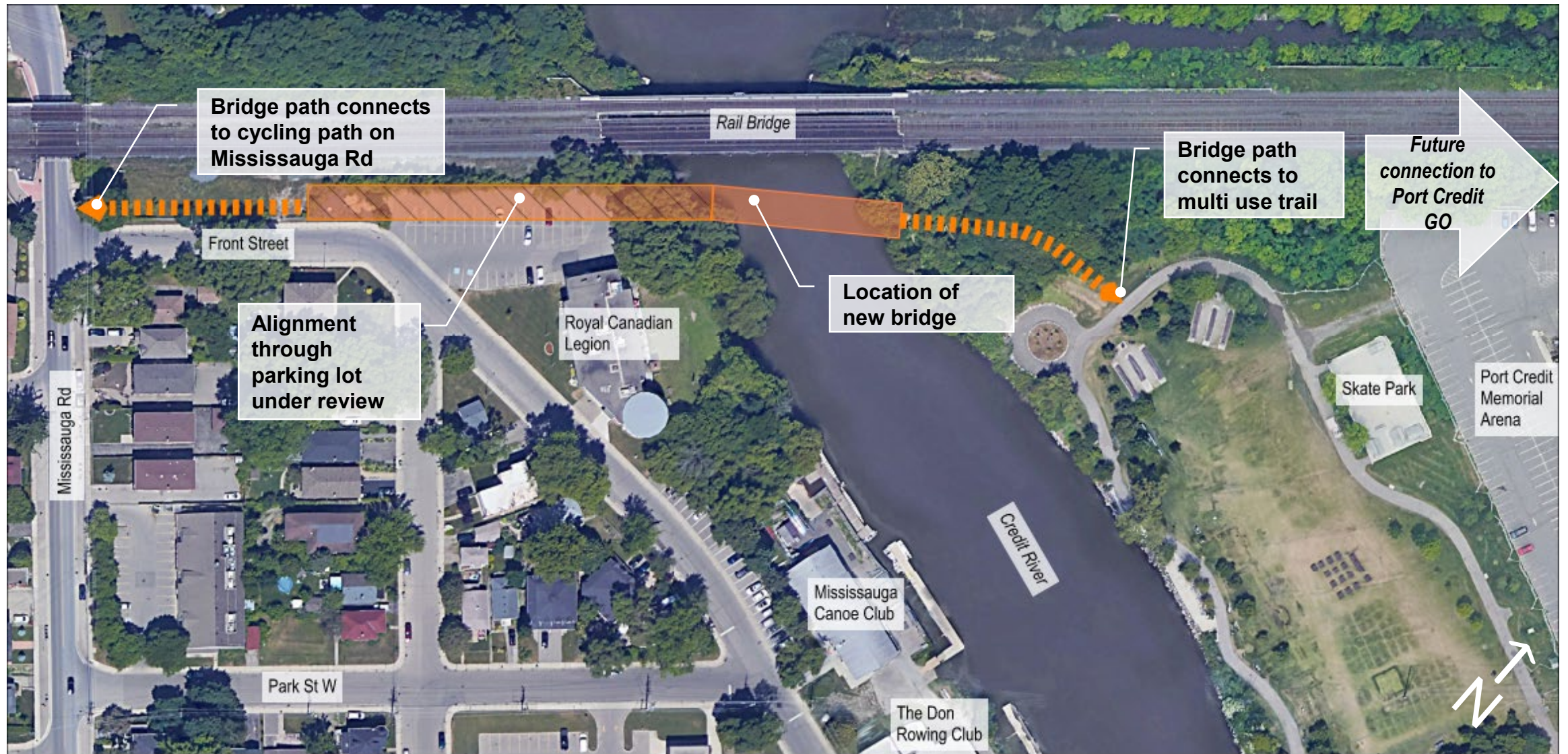
Public input received through this virtual meeting and survey will be included in a feedback report that will be posted on the project website.

If you have any questions about this project or would like to be added to the project mailing list, contact the Project Manager at gino.delacruz@mississauga.ca.

Background

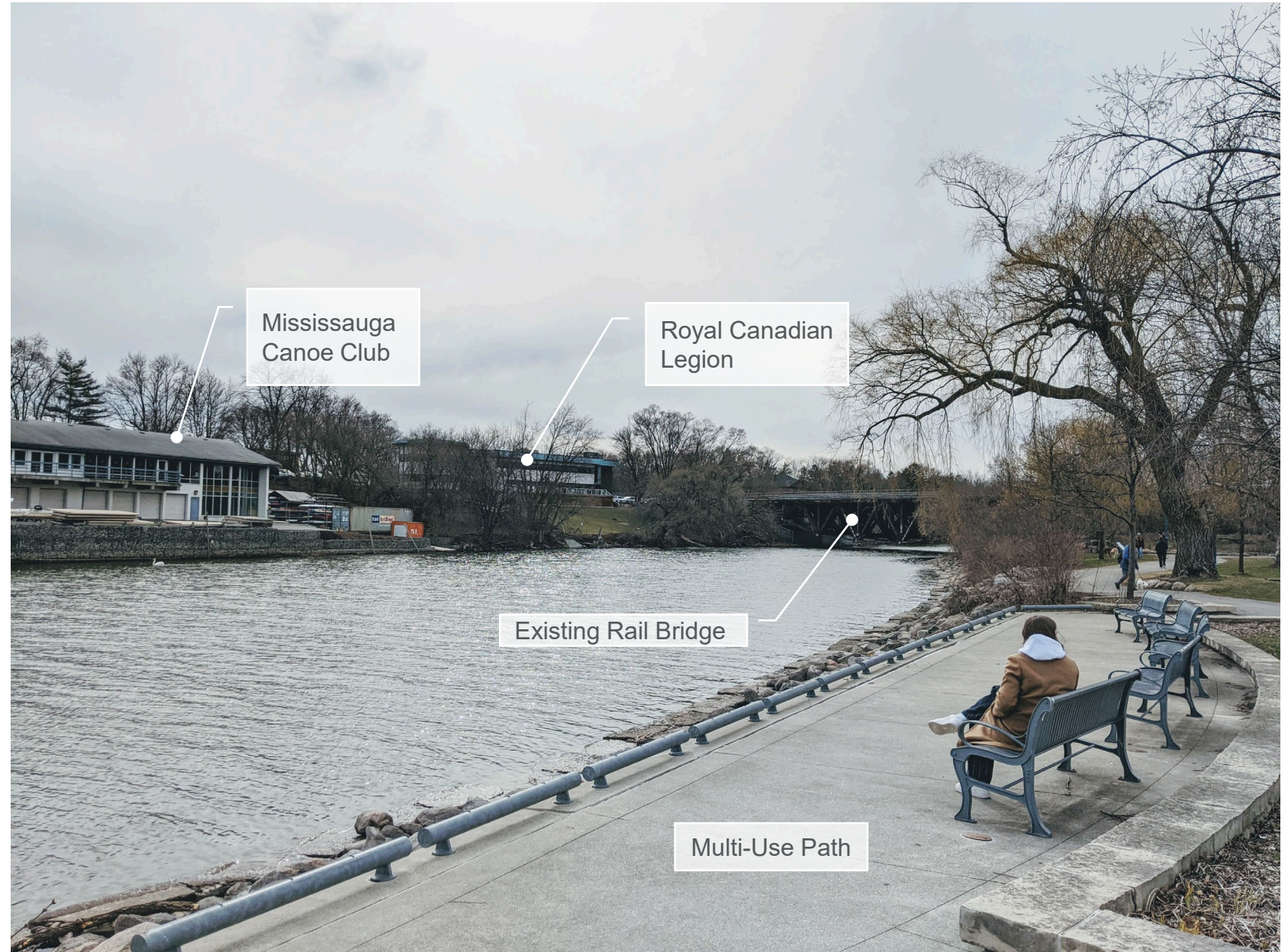
- The EA study is concluding, and the preferred alternative for the AT Bridge is a **signature** bridge, which provides the opportunity for community input.
- The exact alignment is currently under review with adjacent property owners.
- Feedback gathered from this workshop is intended to inform design principles to be carried forward to detailed design.
- Following EA approval, the Active Transportation Bridge will move to detailed design, anticipated for later this year.

Context



Context

View from north side of
Credit River



Context

View from south
side of Credit
River – Royal
Canadian Legion



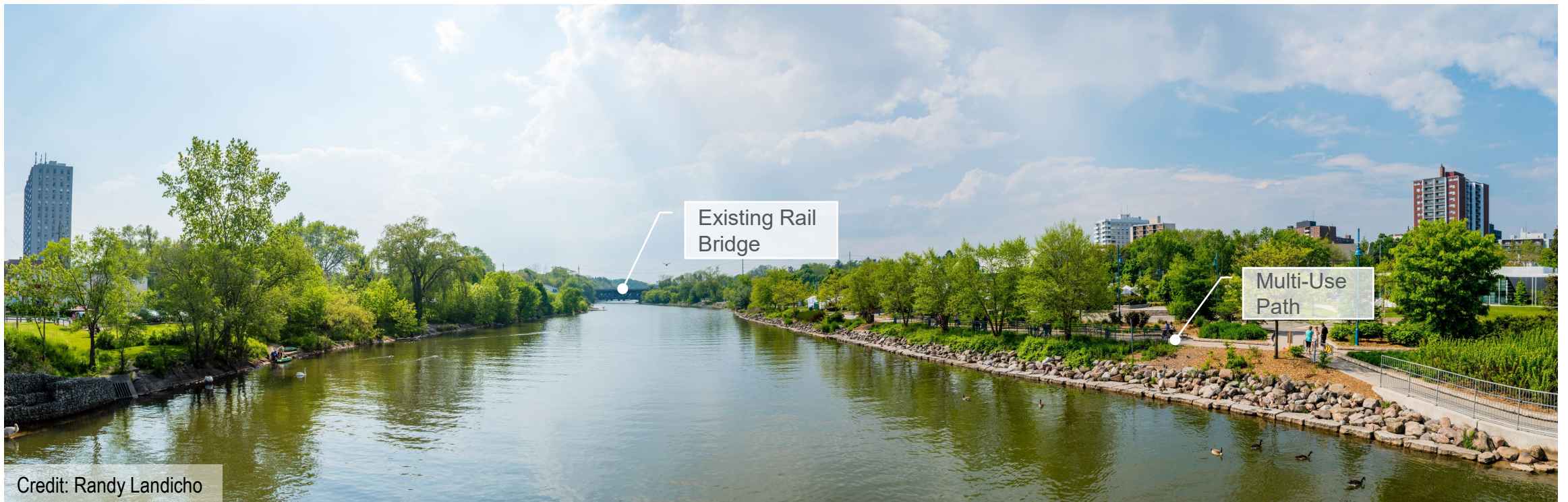
Context

View from north side
multi-use path



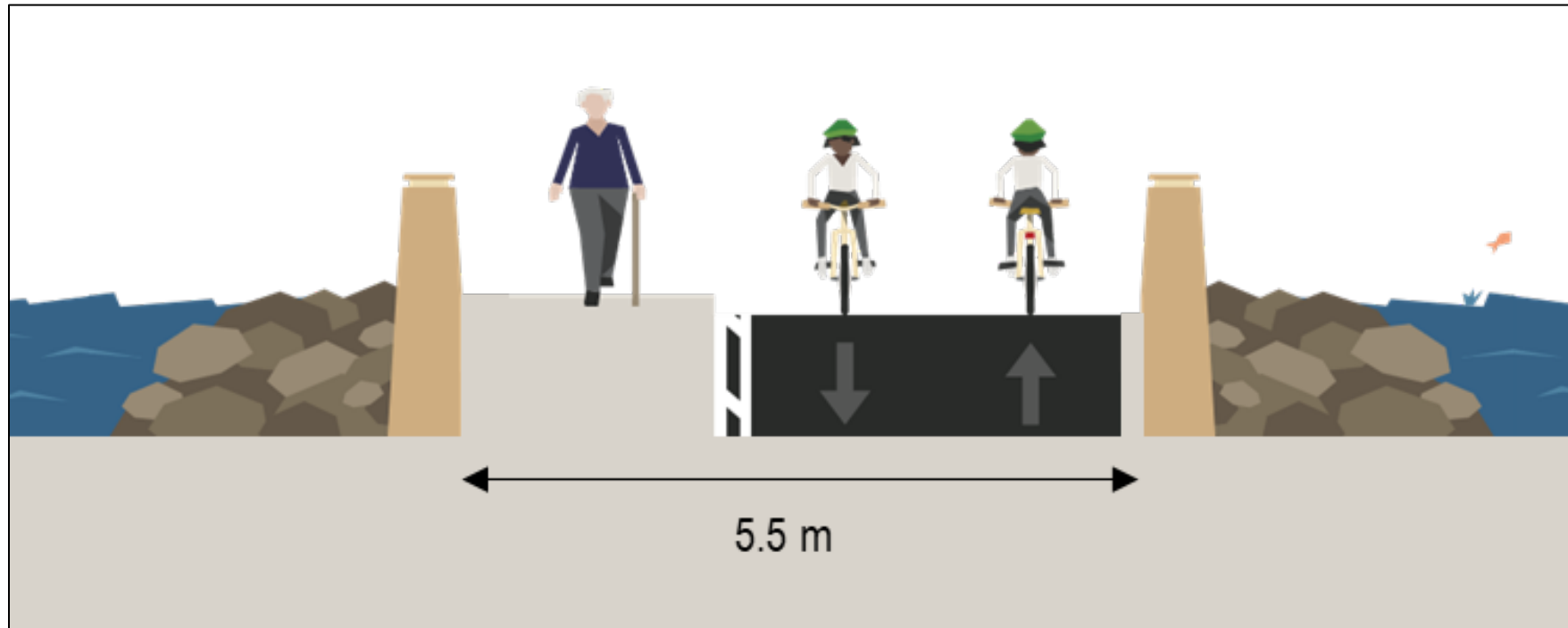
Context

View from Lakeshore Road

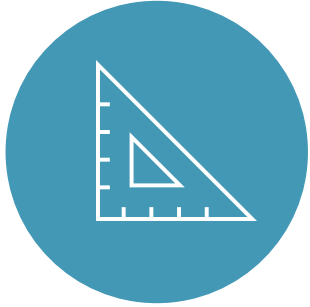


Preferred EA Cross-Section

The following cross section has been presented to the public to establish preferred minimum widths for walking and cycling. The configuration shown here is a subject of discussion and will continue to be refined.



Current Design Parameters



- Bridge length: **66m**
- Vertical clearance from water: **5.5m (+/- 1.25m)**
- Minimum Cycling Width: **1.5m per direction**
- Minimum Pedestrian Width: **1.5m**



- All safety and accessibility standards will meet code requirements, including:
 - Rail height
 - Grading
 - Tactile surfaces



- Sustainable design practices (such as material selection) will be considered as much as possible during detailed design

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Bridge Elements

Developing Bridge Elements

AESTHETICS

How should the bridge look and feel within the community?

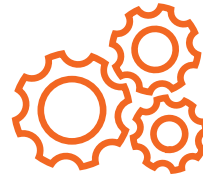
- Statement piece for the community, stands out from the landscape
- Blends into the environment, compliments look and feel of the neighbourhood



FUNCTION

How should the bridge function within the community?

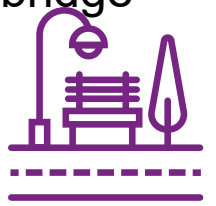
- As a destination – a place to meet, socialize, and leisurely stroll
- As transportation – a link to go from place A to B



EXPERIENCE

What elements should be included in the design to enhance the user experience?

- Seating
- Look-outs
- Way-finding
- Interpretive Elements
- Bike parking at the bridge approach
- Etc.



Aesthetics | Bridge Form & Image

How should the bridge look and feel within the community?

“Signature”
bridge
expression –
what fits best in
this setting?

Above-deck
structure to
maximize
clearance
below – arch or
truss?

Examples of arch bridge

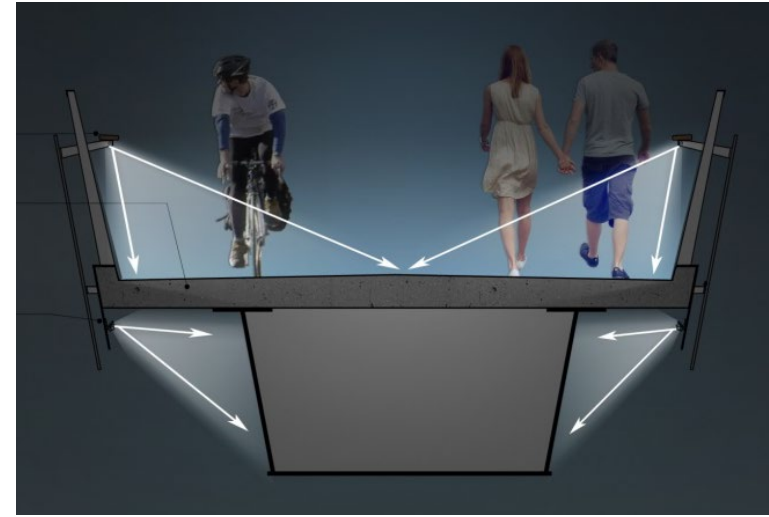


Examples of truss bridge



Aesthetics | Lighting

- Functional and accent lighting to illuminate above-deck areas and highlight key features
- Concealed lighting or fixtures connected to above-deck structure?



Concealed Lighting



Accent Lighting



Other Aesthetic Considerations | Materials & Finishes

- High quality materials, durable, low maintenance
- Steel structure – weathering steel or premium paint finish
- Railings – stainless steel, paint finish or galvanized steel, aluminum; maximize views & comply with codes
- Timber handrail may be considered
- Concrete – abutments, deck
- Stone – approaches



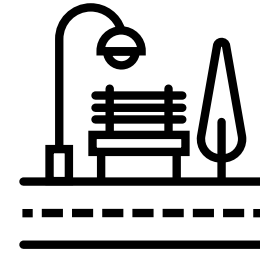
Function | Accommodating Different Users

How should the bridge function within the community?

1. As transportation – a link to go from place A to B
2. As a destination – a place to meet, socialize, and leisurely stroll

Options for organizing different users:

1. Separated cyclist and pedestrian areas with lane markings
2. Central cyclist area with pedestrian viewing areas on each side
3. Shared cyclist and pedestrian area on the bridge, with cyclists encouraged to slow down



Function | Accommodating Different Users

1. Separated cyclist and pedestrian areas with lane markings



Function | Accommodating Different Users

2. Central cyclist area with
pedestrian viewing areas on
each side



Function | Accommodating Different Users

3. Shared cyclist and pedestrian area on the bridge, with cyclists encouraged to slow down



Experience

Pedestrian Needs:

- walking
- pausing
- leaning
- resting
- sitting
- waiting
- viewing
- photographing
- conversing
- texting
- enjoying the outdoors
- people-watching
- meeting friends

Different ways to enhance user experience:

- Look-outs
- Seating
- Interpretive Elements
- Way-finding



“People **staying** (not moving through) indicates good quality of public space ...” Jan Gehl

Experience

Psychologically, an aesthetically pleasing place or object enhances positive thoughts and raises one's spirits



Experience

- Viewing opportunities at approaches
- Places to sit and gather



Experience | Interpretive Elements

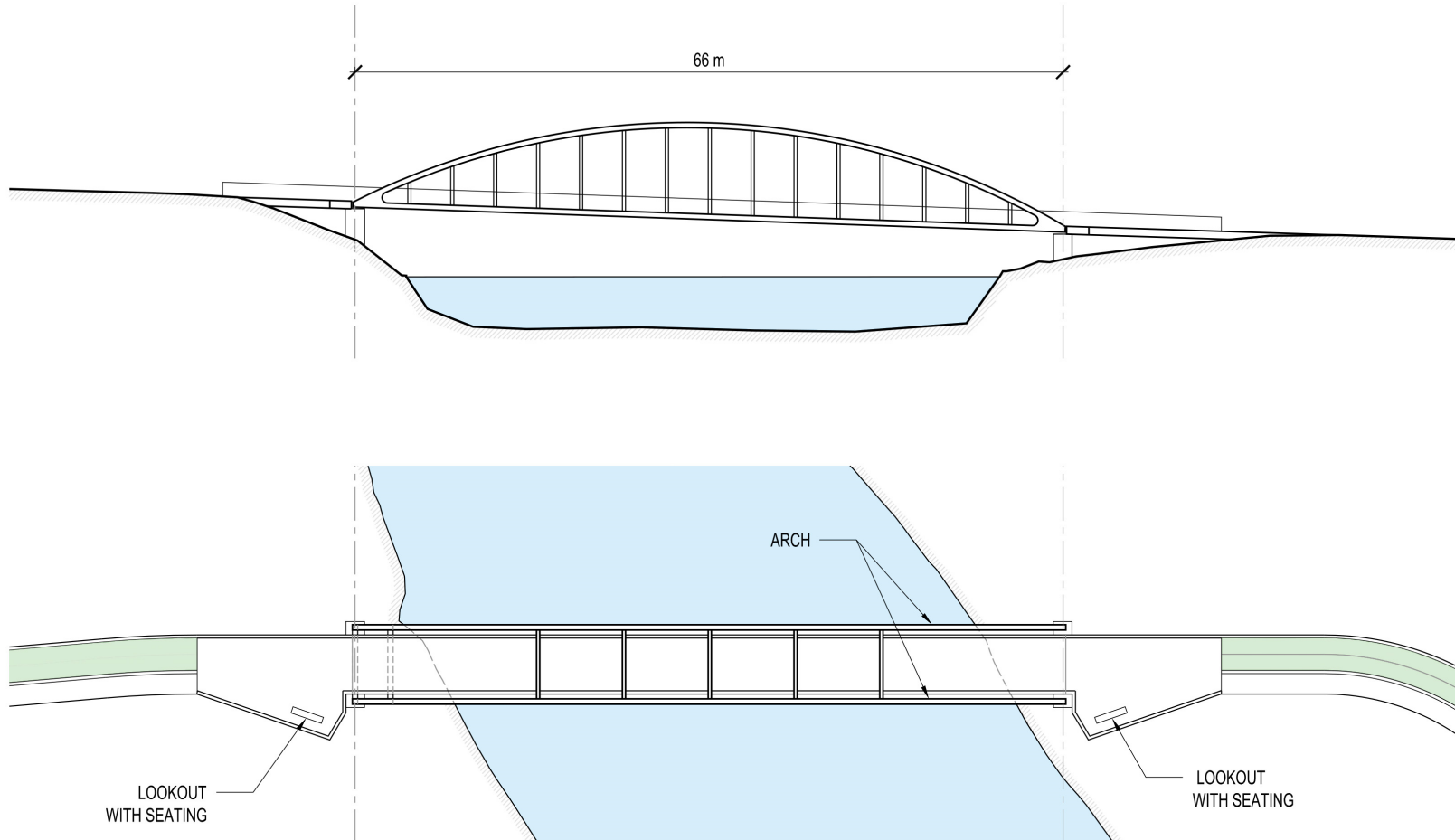
- Opportunities to enrich pedestrian experience, educate onlookers on interesting aspects of the setting e.g., history, flora/fauna etc.
- Opportunities for public art by local and/or indigenous artists may also be considered.



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Bridge Concepts

Bridge Concept 1 | Above-Deck Arch



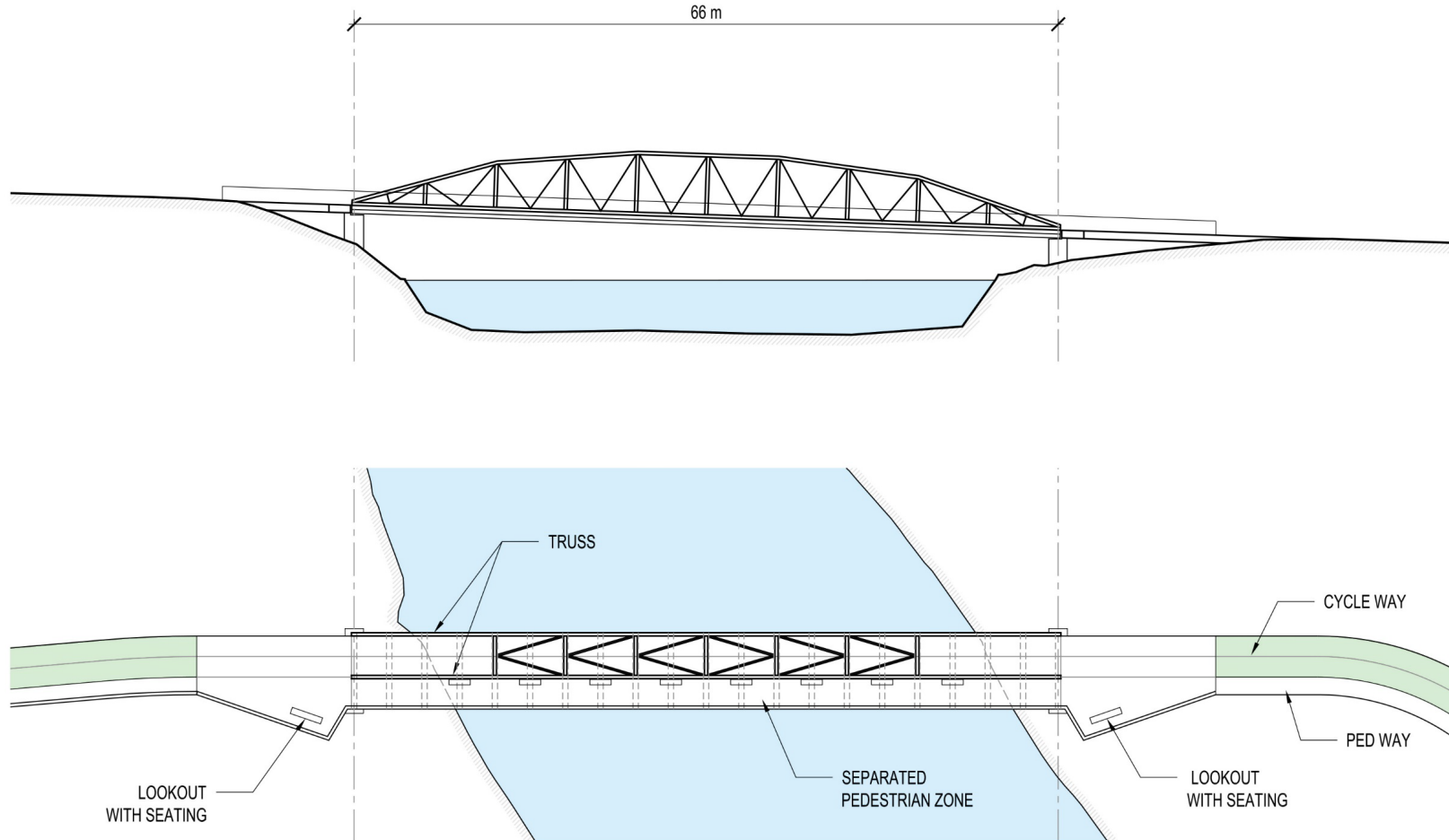
Bridge Concept 1 | Above-Deck Arch



Bridge Concept 1 | Above-Deck Arch



Bridge Concept 2 | Bowstring Truss



Bridge Concept 2 | Bowstring Truss



Bridge Concept 2 | Bowstring Truss



Developing Bridge Elements

What are your ideas? What is important to you?

AESTHETICS

How should the bridge look and feel within the community?



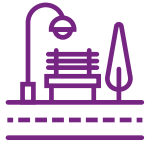
FUNCTION

How should the bridge function within the community?



EXPERIENCE

What elements should be included in the design to enhance the user experience?



Bridge Concept 1 | Above-Deck Arch



Bridge Concept 2 | Bowstring Truss

Get Involved

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your input is very valuable to us!

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