The Preliminary Design of a New Bridge over the Assiniboine River on PTH 5

Public Engagement

Summer 2022

Manitoba

Welcome

The purpose of this presentation is to:

Review
the purpose,
scope and timing
of the project.

Present the
preferred design
alternative.

Explain how
feedback was
considered
during the
design process.

Background

The bridge on PTH 5 over the Assiniboine River at Spruce Woods Provincial Park was built in

1964

PTH 5 is an important link between PTH 1 and PTH 2 across the Assiniboine River.

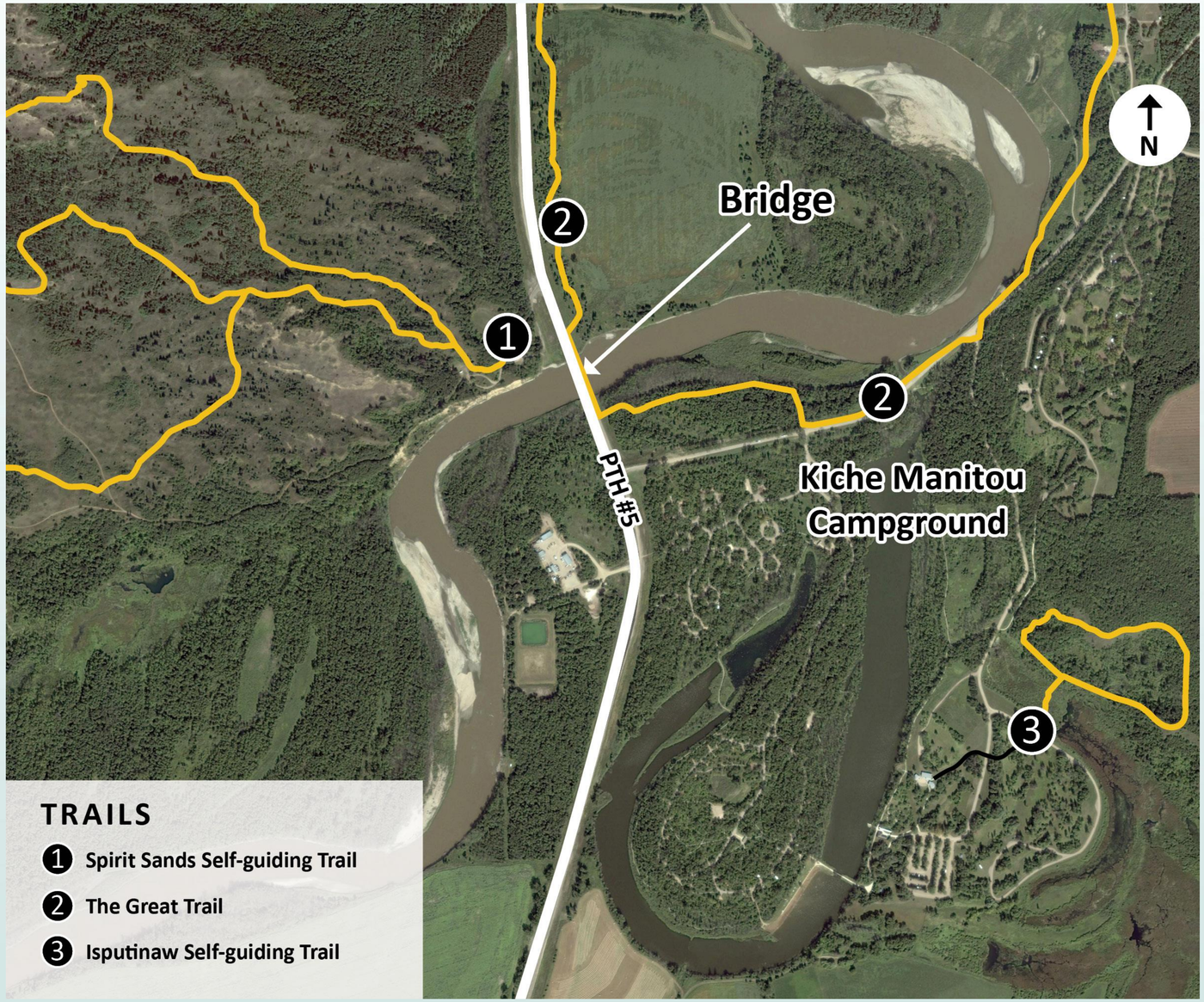
- The bridge experienced major flood events in 2011 and 2014 where the Assiniboine River caused overland flooding and washed out the road south of the bridge.
- While the bridge has survived significant flood events, action is required to maintain PTH 5 connectivity during these events.
- Manitoba Transportation & Infrastructure is planning to replace the existing bridge and improve the channel to better accommodate future flood events and keep PTH 5 open to traffic.

Bridge over the Assiniboine River on PTH 5

Study Area

- The PTH 5 bridge over the Assiniboine River is located at **Spruce Woods Provincial Park**, approximately 12 km north of Glenboro, Manitoba.

- The bridge is located **near notable trails** including the Spirit Sands Trail and the Isputinaw Trail, the Great Trail and close to the Kiche Manitou Campground.



Bridge over the Assiniboine River on PTH 5

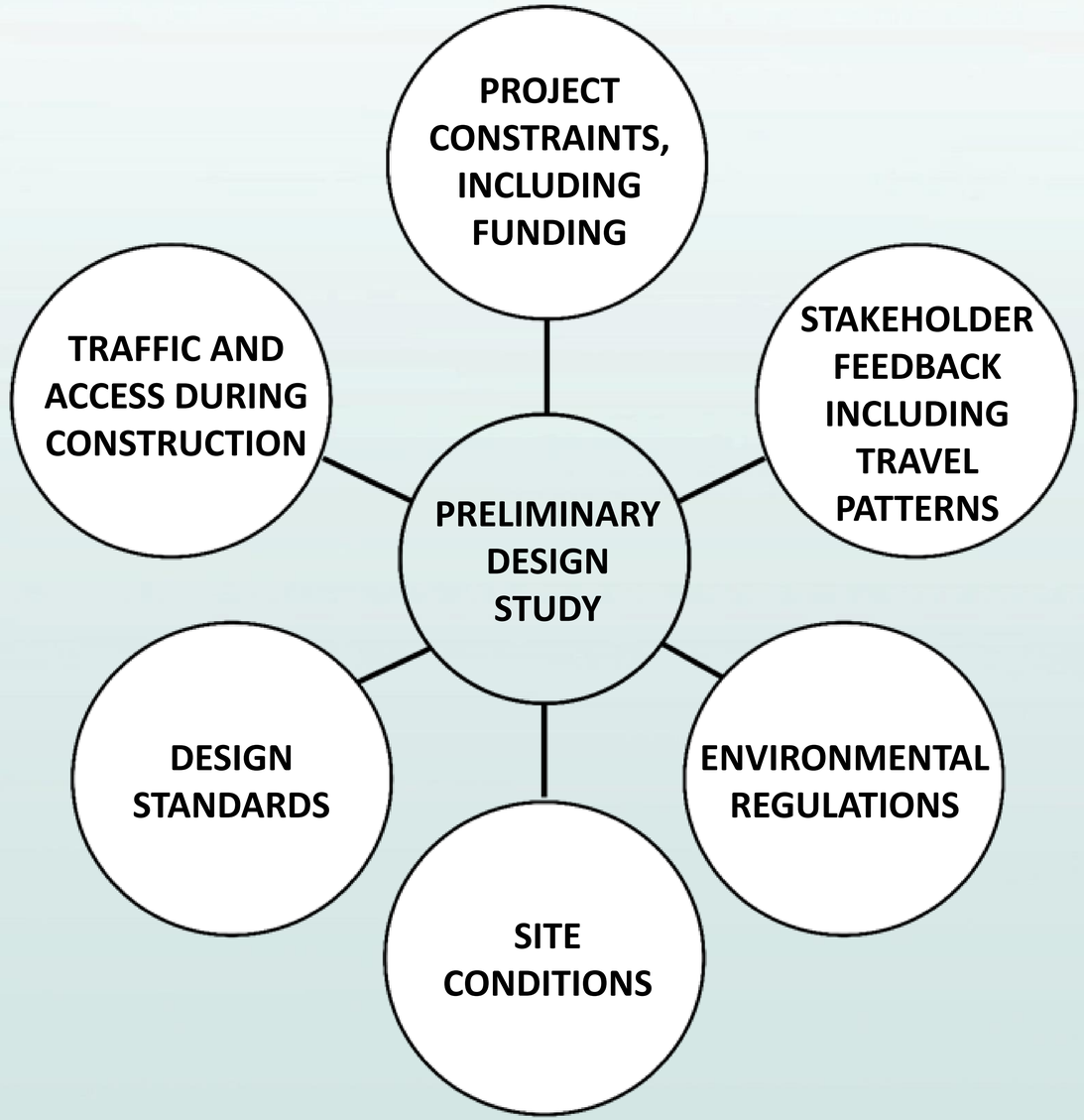
Project Scope

MTI engaged WSP to complete a preliminary design study for a new bridge over the Assiniboine River on PTH 5. The goals of the study are to:

Develop bridge replacement alternatives.

Identify a preferred alternative.

Finalize the preliminary design of the preferred alternative.



Engagement

The engagement process involves:

- Local governments;
- Adjacent landowners;
- Business owners;
- Swan Lake First Nation;
- Spruce Woods Provincial Park;
- Local interest groups; and
- The public.

The objectives of the engagement process are:

- To convey clear information about the project, including its scope and timing.

- To gather input on:
  - The proposed alternatives; and
  - The preferred alternative.

ENGAGEMENT TECHNIQUES

Group stakeholder meetings

Telephone conversations with stakeholders

Public engagement on the preferred alternative

Project webpage updates

Newsletters

Engagement Process

The engagement process has been divided into three phases:

1

Phase 1:

Initial Stakeholder Engagement

2

Phase 2:

Stakeholder Meetings to Present the Alternatives and Gather Feedback

3

WE ARE HERE

Phase 3:

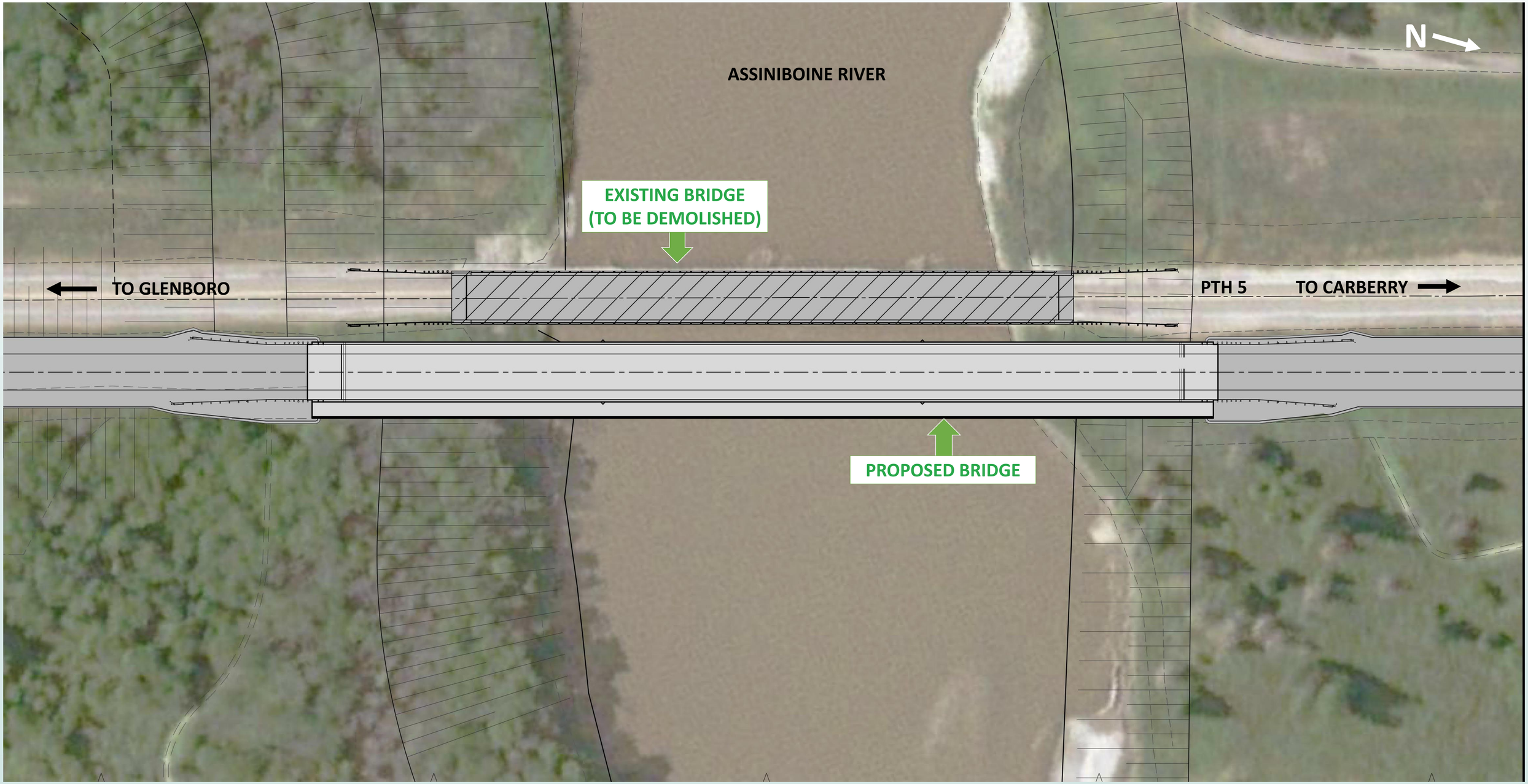
Stakeholder Meetings and Public Engagement to Present the Preferred Alternative

What We Heard

WHAT WE HEARD	HOW IT WAS CONSIDERED
The lack of AT infrastructure on the existing bridge **creates potential conflicts between AT users and vehicles**.	A multi-use path, approximately 3m (9.8 ft.) in width and separated from the roadway, is included in the proposed design.
The width of the existing bridge **is challenging for large commercial and agricultural vehicles**.	The width of the roadway in the proposed design is increased by approximately 1.12m (3.6 ft.) in each direction.
Year-round access across the bridge must be retained to accommodate traffic.	During construction of the new bridge alongside the existing, it is anticipated that the existing bridge will remain operational.
There are **concerns with flow capacity under the bridge**; the bridge should be designed with the 2011 and 2014 major flood events in mind.	The preferred alternative was designed in consideration of the 2011 and 2014 major flood events. The preferred alternative will provide greater clearance for increased river flow, debris and ice jams.
The **amount of additional property required** to accommodate a new bridge should be minimized.	Through the development of the alternatives, the amount of property required was minimized. No private property is required for the preferred alternative.

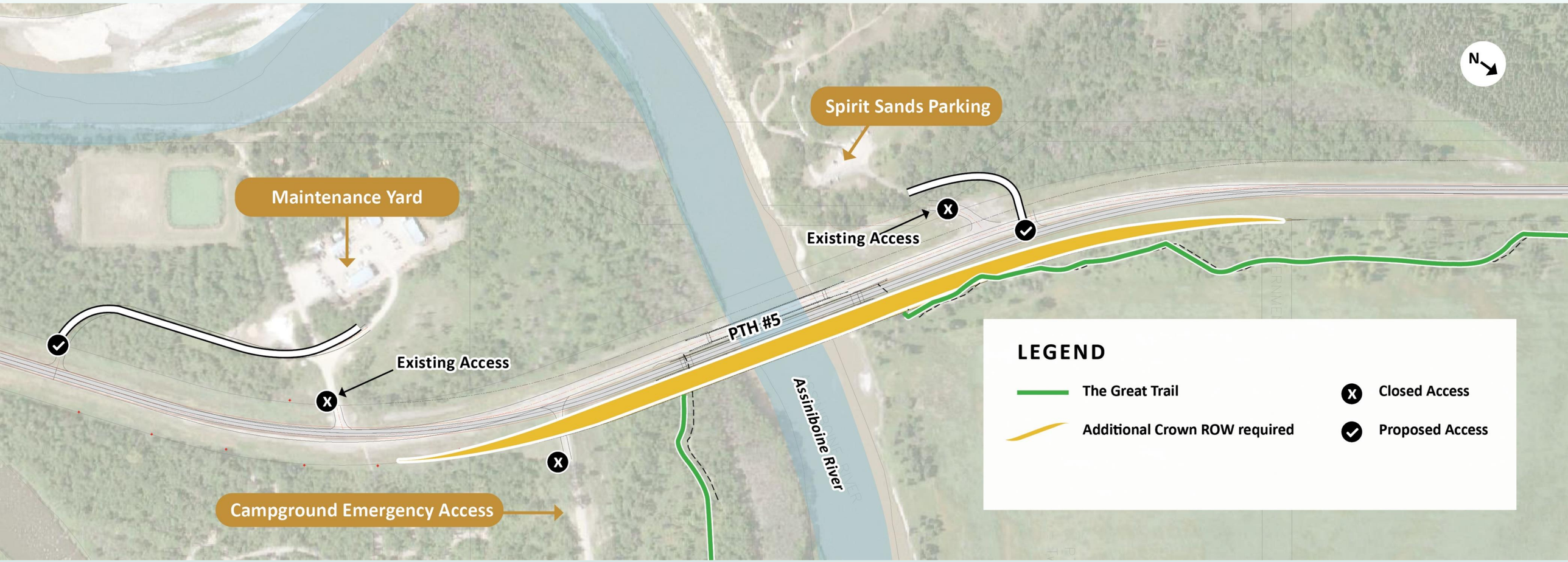
Preferred Alternative

Manitoba



Bridge over the Assiniboine River on PTH 5

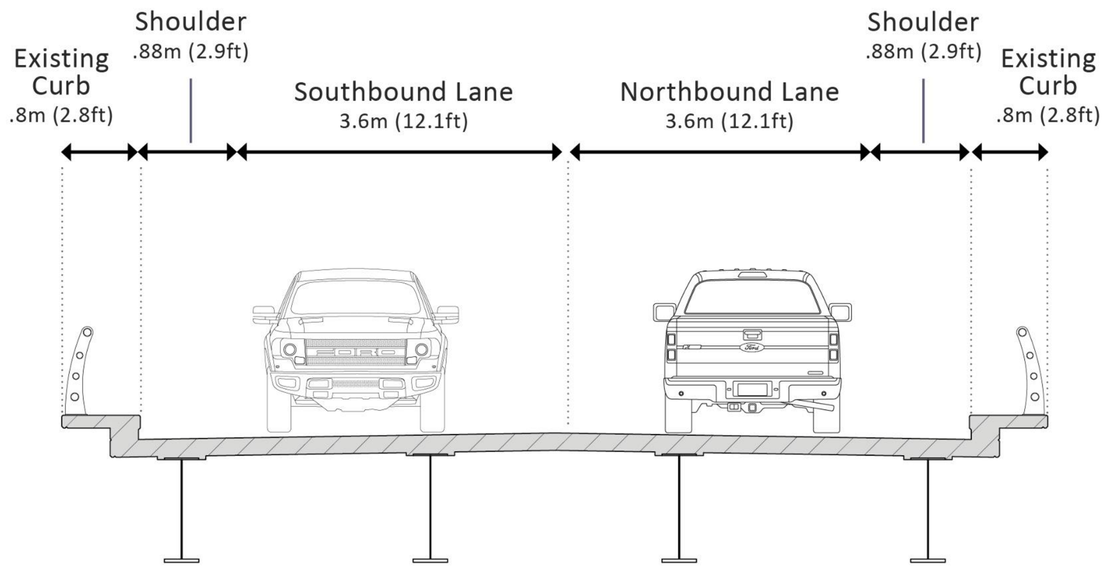
Preferred Alternative



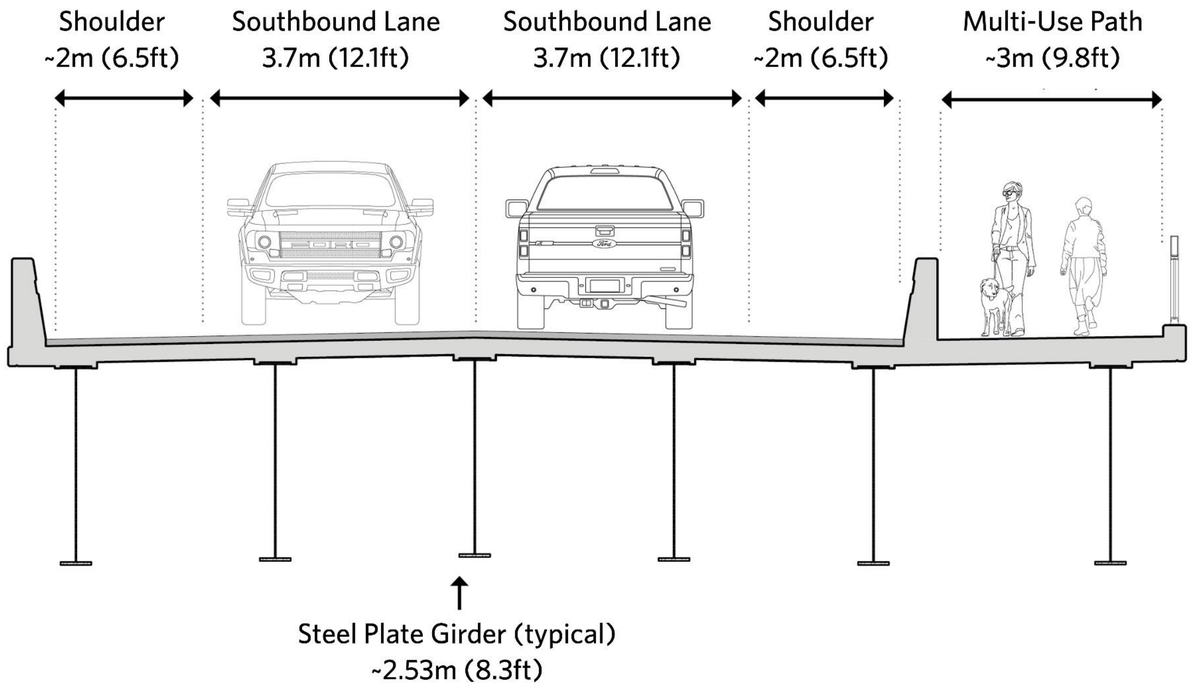
Bridge over the Assiniboine River on PTH 5

Preferred Alternative Section

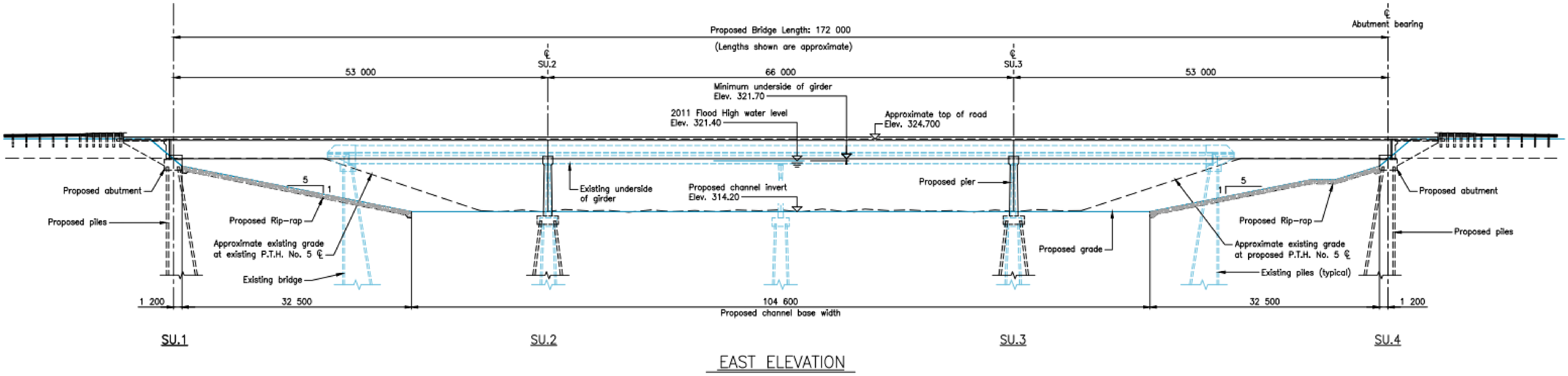
EXISTING DESIGN



PROPOSED DESIGN



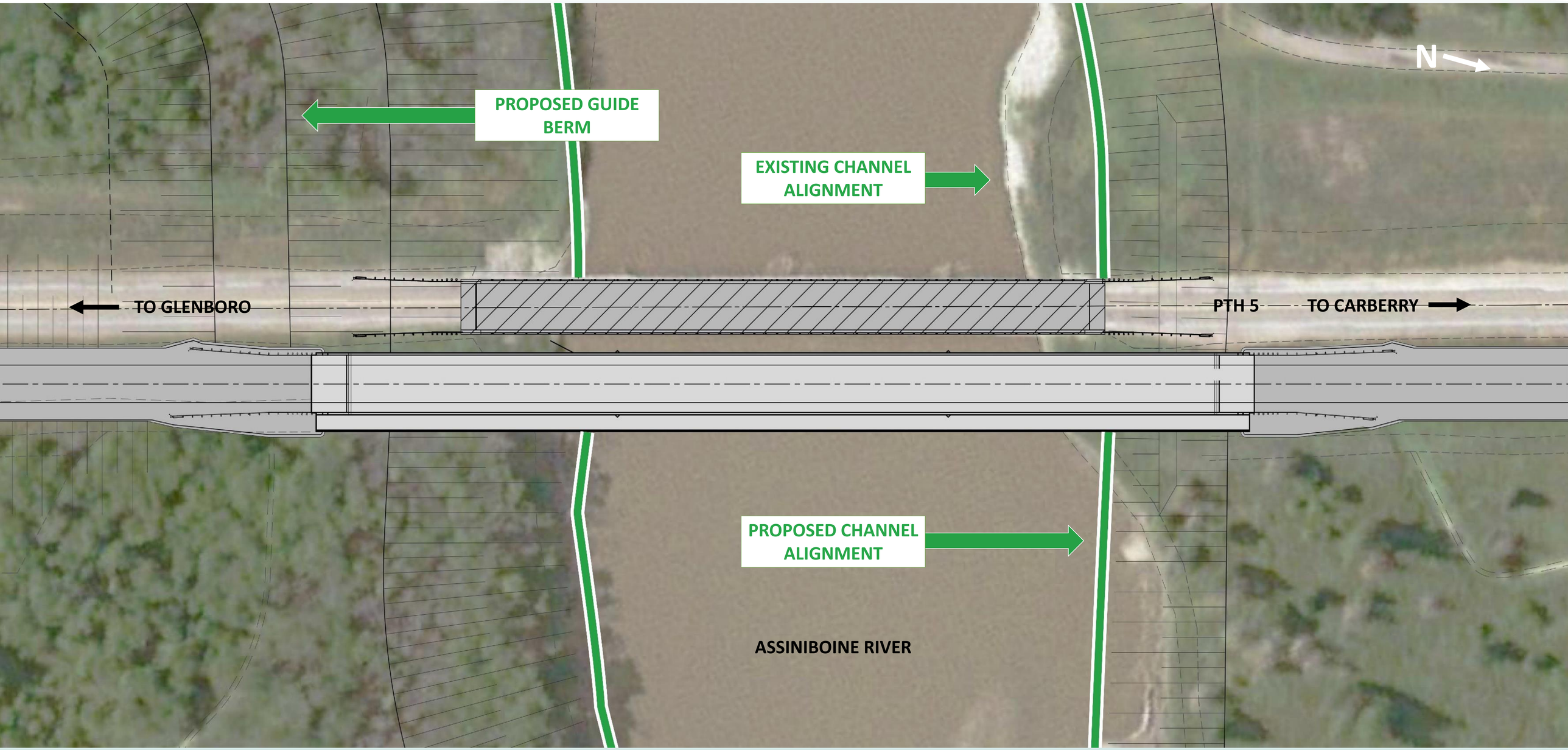
Preferred Alternative Elevation



EAST ELEVATION

Bridge over the Assiniboine River on PTH 5

Preferred Alternative



Bridge over the Assiniboine River on PTH 5

Preferred Alternative

Manitoba

Approximate location of bench cut

Channelization work is anticipated to involve cutting a bench southwest of the bridge to allow for more efficient water flow through the bridge and minimize future erosion on the north embankment.

Bridge over the Assiniboine River on PTH 5

Preliminary Design Timeline

Manitoba

DESIGN TIMELINE →

Gain an Understanding of Existing Conditions

Development Alternatives

Evaluate Alternatives and Select Preferred Alternative

Complete Preliminary Design of Preferred Alternative

Spring 2021

May 2021

Summer 2021

November 2021

December 2021

June/July 2022

July/August 2022

ENGAGEMENT TIMELINE →

Develop Bridge Strategy and Alternatives

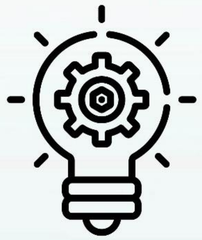
Present Alternatives to Stakeholders

Present Preferred Alternative to Stakeholders and the Public

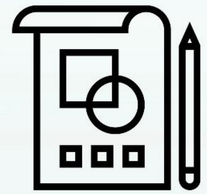
WE ARE HERE

Bridge over the Assiniboine River on PTH 5

Proposed Project Timeline



Preliminary Design



Detailed Design

Tender, Award, and Construction Period

We Are Here

2021 | 2022 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC | 2023 JAN FEB MAR APR MAY JUN JUL AUG SEP

Environmental Approvals

Thank you.

For additional information and to provide feedback, contact:

Meagan Boles, Public Engagement Lead

E: meagan.boles@wsp.com

T: (204) 943-3178

Bridge over the Assiniboine River on PTH 5