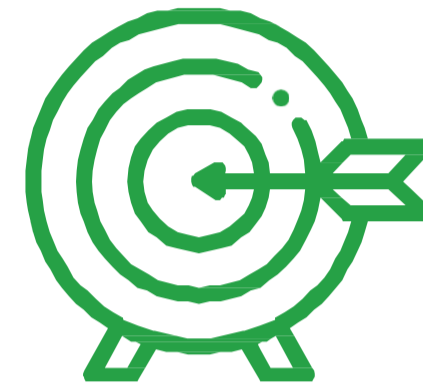


THE North Perimeter (PTH 101) Highway Design Study

Phase 1 Engagement

February 2023





Purpose

To develop a plan that will accommodate the future development of the north Perimeter Highway into a **fully access-controlled, grade-separated freeway that can ultimately accommodate six lanes.**

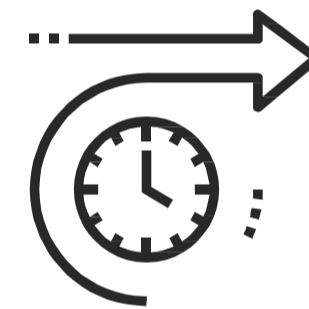
The **intent** of Phase 1 Engagement is to:



Inform you of the **purpose and scope** of the study for PTH 101



Review highway crossing locations, future access configuration and discuss any **other potential study impacts**

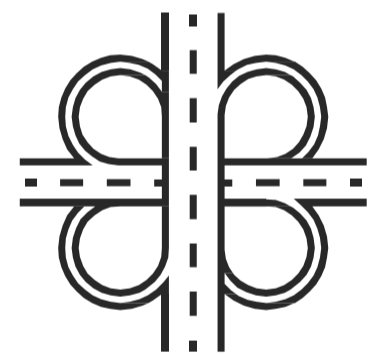


Develop an understanding of **future development plans** that should be considered in the study



Offer an opportunity to provide input to and ask **questions** of the design team

WSP Canada Inc. (WSP), a planning and engineering firm was engaged by the Government of Manitoba to develop a design for the reconstruction of the North Perimeter Highway (PTH 101).



The PTH 101 redesign, once constructed, will create a **modern freeway facility**.



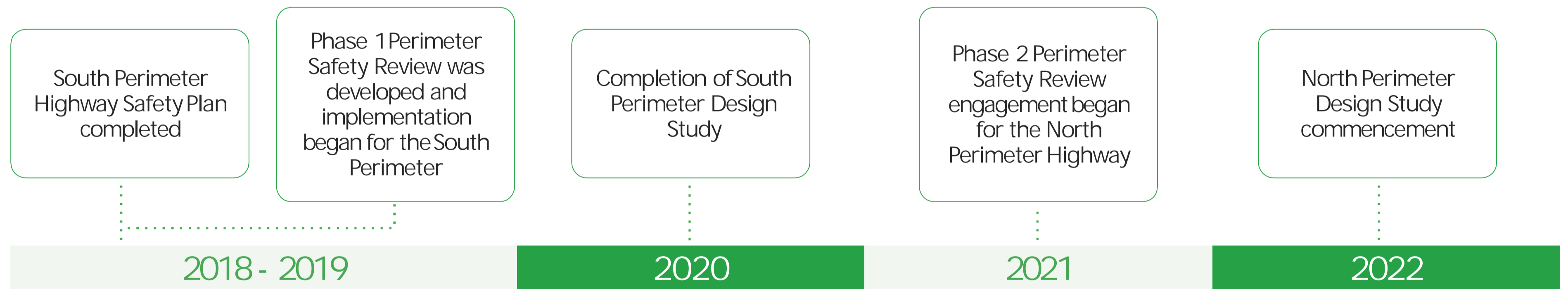
The study was initiated due to **existing highways safety, operations, and condition issues**.



The final design will provide **highway access via grade separated interchanges** with service roads at certain locations to accommodate access to fronting developments.

As a separate project, Manitoba Transportation and Infrastructure has been conducting a Safety Plan Review for the Perimeter Highway with a focus on **addressing the access points and intersections where there is the greatest risk of severe collisions**. The review was divided into two phases: Phase 1 South Perimeter and Phase 2 North Perimeter.

Below is a summary of the project to date:

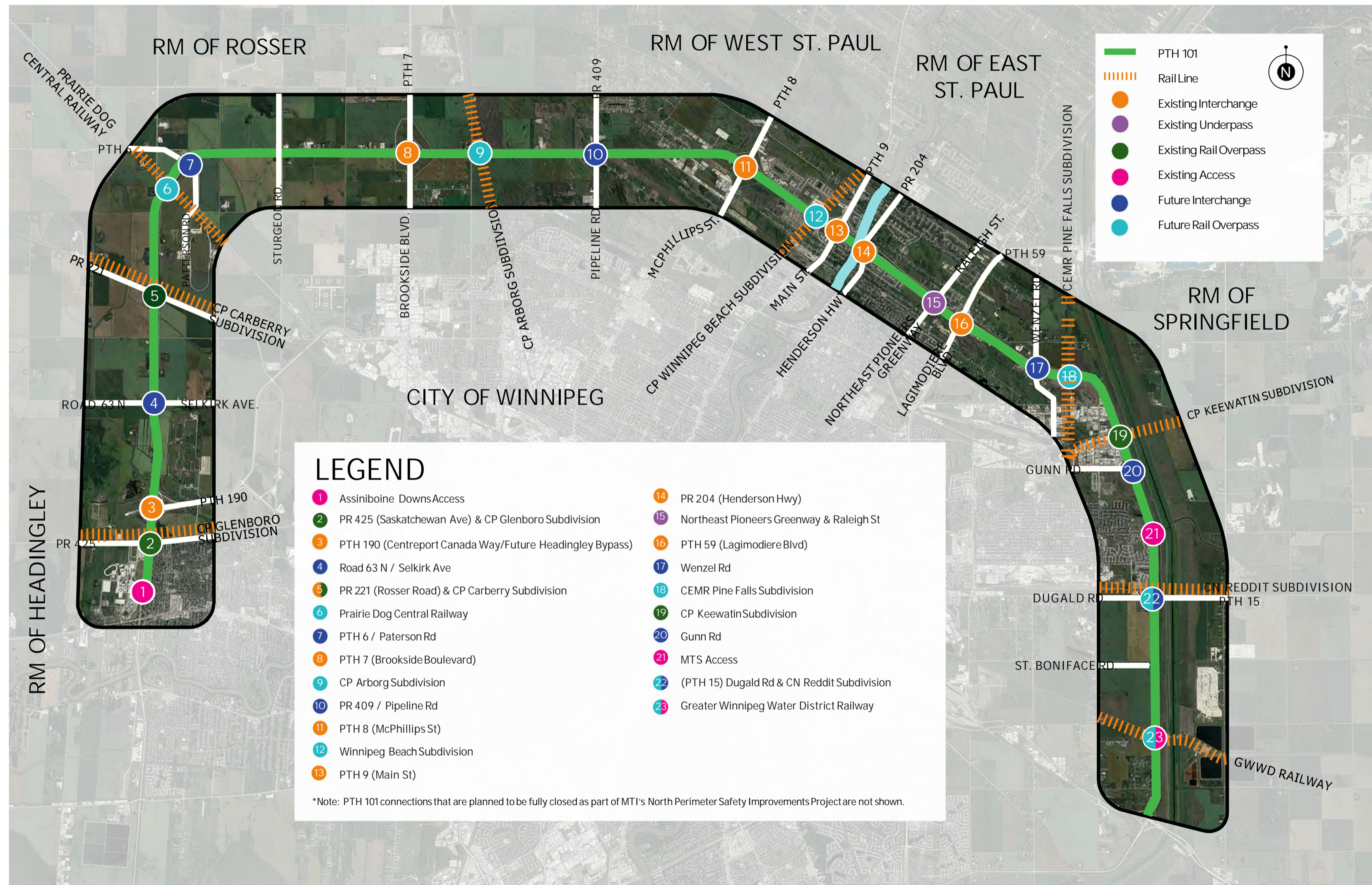


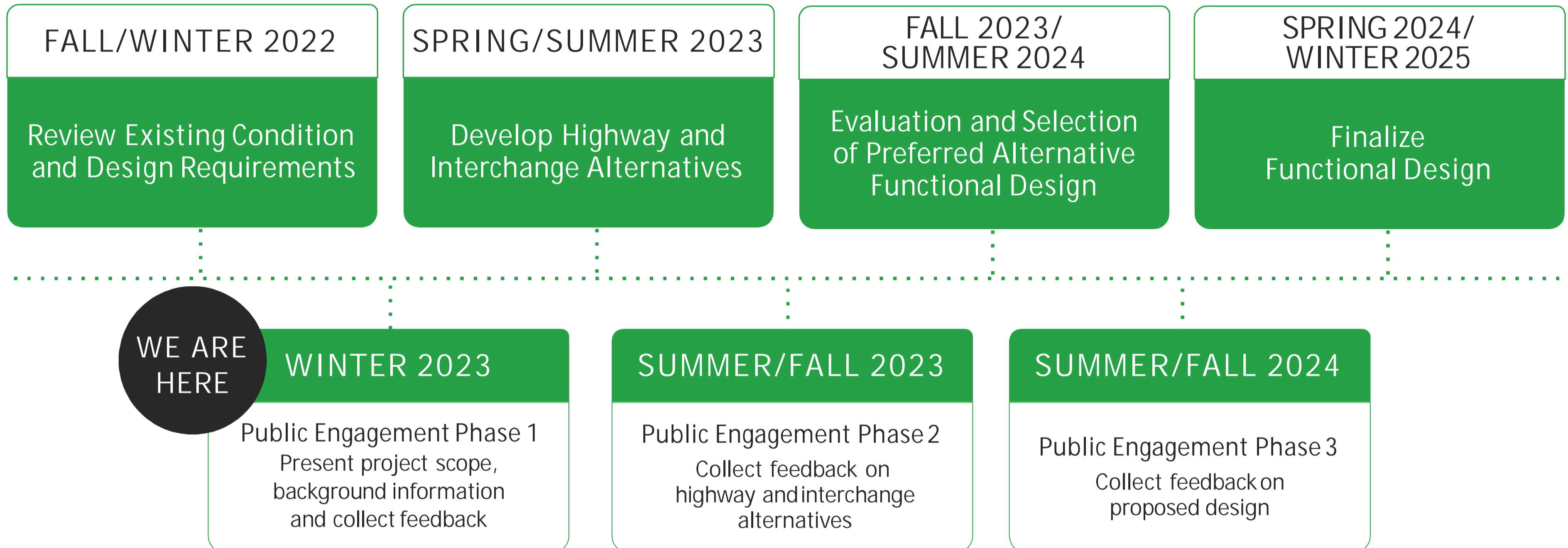
For more information on the Perimeter Safety Review, [please visit:](#)



Study Area

The North Perimeter (PTH 101) Highway Design Study





The functional design study will take approximately two years to complete.

A functional design study is an early phase of the design process in which the road right-of-way and roadway layout are established based on projected travel patterns and demand. Functional Designs are informed by both technical studies and public input and feedback throughout the process.

Public Engagement will consist of:

- » A project webpage and online surveys
- » Group stakeholder meetings
- » Use of EngageMB and in person public open houses in Phases 2 and 3
- » Project newsletters



Phase 1 is focused on group stakeholder meetings and the project website.

Feedback

All comments/feedback will be summarized and presented to the project team.



Property Impacts

If you believe that any portion of your property may be impacted, please contact a member of the study team.

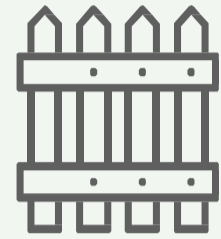


PTH 101 – Freeway Conditions

Access will be limited to interchanges at major cross-roads, with no at-grade intersections, railway crossings, or property access connections.

Other Roads

Access control for all other roads shall be based on the standards of the traffic authority for the road (Manitoba Transportation and Infrastructure for Provincial highways; City of Winnipeg and Rural Municipalities for roads in their respective jurisdictions).



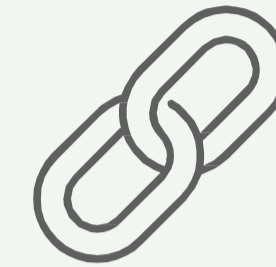
PROPERTY BOUNDARIES AND LAND OWNERSHIP

This information was collected
and reviewed for the study area



LAND DEVELOPMENT INFORMATION AND PLANS

Existing and proposed for the
six municipalities



EXISTING CONNECTIONS TO PTH 101

Including location and type



ROADWAY CONDITIONS

Inventory of existing roads
in the study area, including
an assessment of pavement
condition



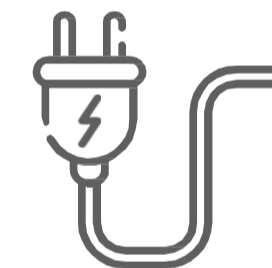
TRANSPORTATION PLANS

City of Winnipeg, municipalities
and Capital Region



PEDESTRIAN AND CYCLING FACILITIES

Available current activity data
and planned facilities that may
influence activity in the future



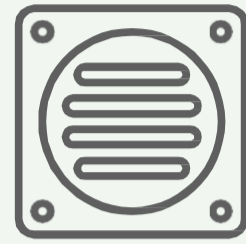
EXISTING AND PLANNED UTILITIES

Underground and above
ground utility crossings, and
any running along the highway



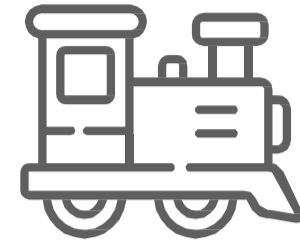
EXISTING ACCESS PERMITS

Review permit conditions
against field conditions



LAND DRAINAGE

Existing facilities, areas of concern, and flood protection information



RAIL CROSSINGS

Type of crossings and train activity levels for CN, CP, CEMR, GWWD, PDCR, and Transport Canada



TRAFFIC DATA – EXISTING AND PROJECTED DATA

Forecasts will be prepared for 10, 20 and 30 years into the future



COLLISION HISTORY

Develop collision rates by intersection and roadway segments



BRIDGE STRUCTURES

Review general arrangement drawings for existing structures



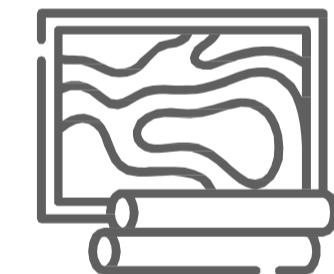
PROPOSED DESIGN CRITERIA

Roadways, structures, active transportation, and drainage criteria will be prepared



AVAILABLE RELEVANT REPORTS FOR THE STUDY AREA

A number of past studies undertaken at various locations along the study area



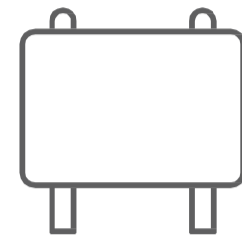
TOPOGRAPHIC STUDIES

Confirm Lidar information such as top of rail, location of utilities, roads and miscellaneous structures



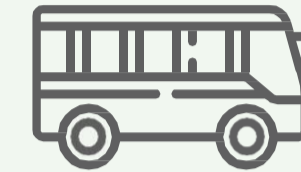
GEOTECHNICAL INFORMATION

Review background information
including mineral resources and
dispositions



EXISTING PERMANENT GUIDE SIGNING

Review of existing conditions
and supports



SCHOOL BUS PATTERNS

In the study area



ACCESSIBILITY of Emergency vehicles

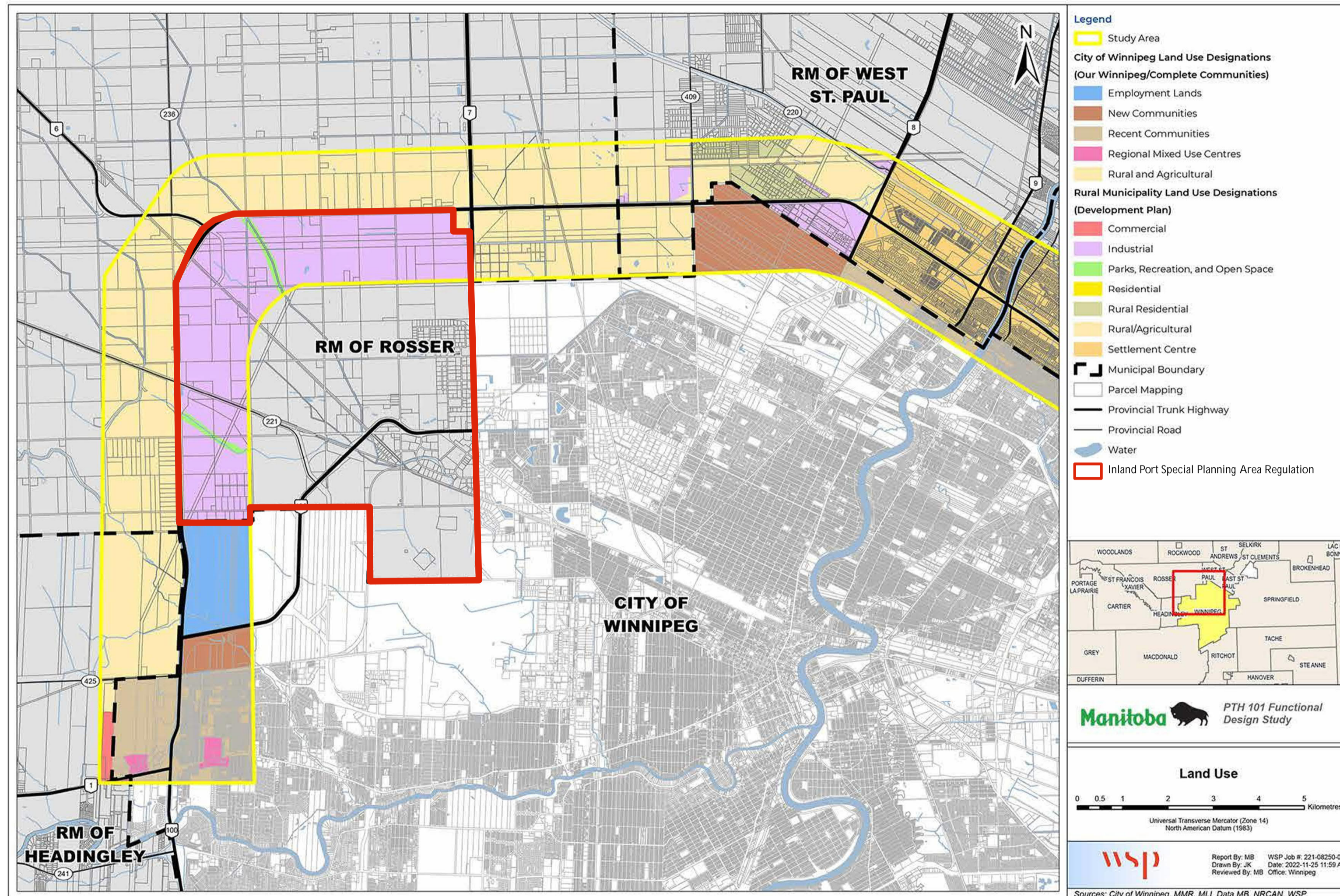


ENVIRONMENTAL CONSIDERATIONS

Related legislation, ecological classification, climate conditions, noise considerations, soils and terrain, terrestrial environment, vegetation, wildlife, species of conservation concern, heritage resources, aquatic systems, parks and protected areas, and designated flood areas

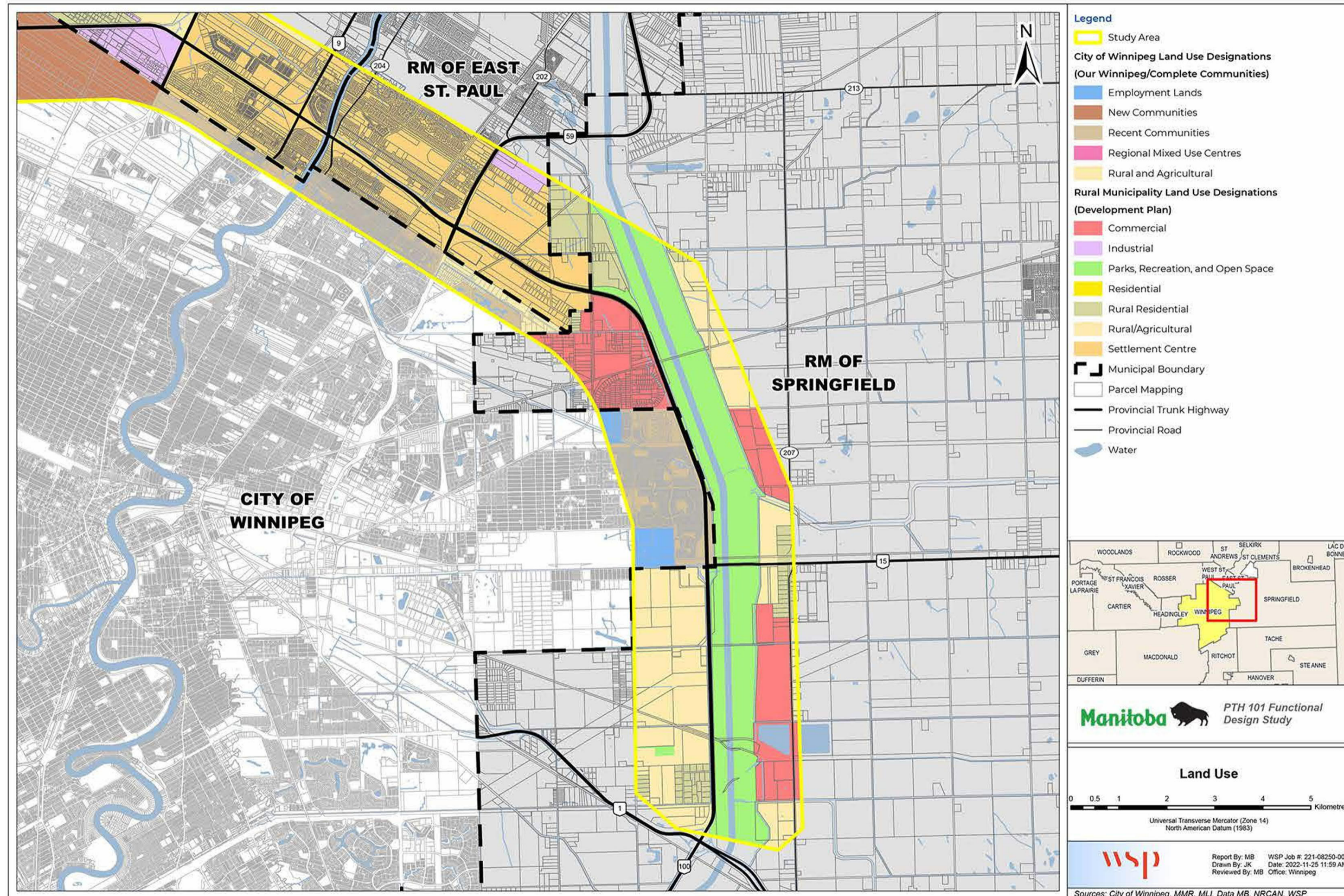
Land Use Designations

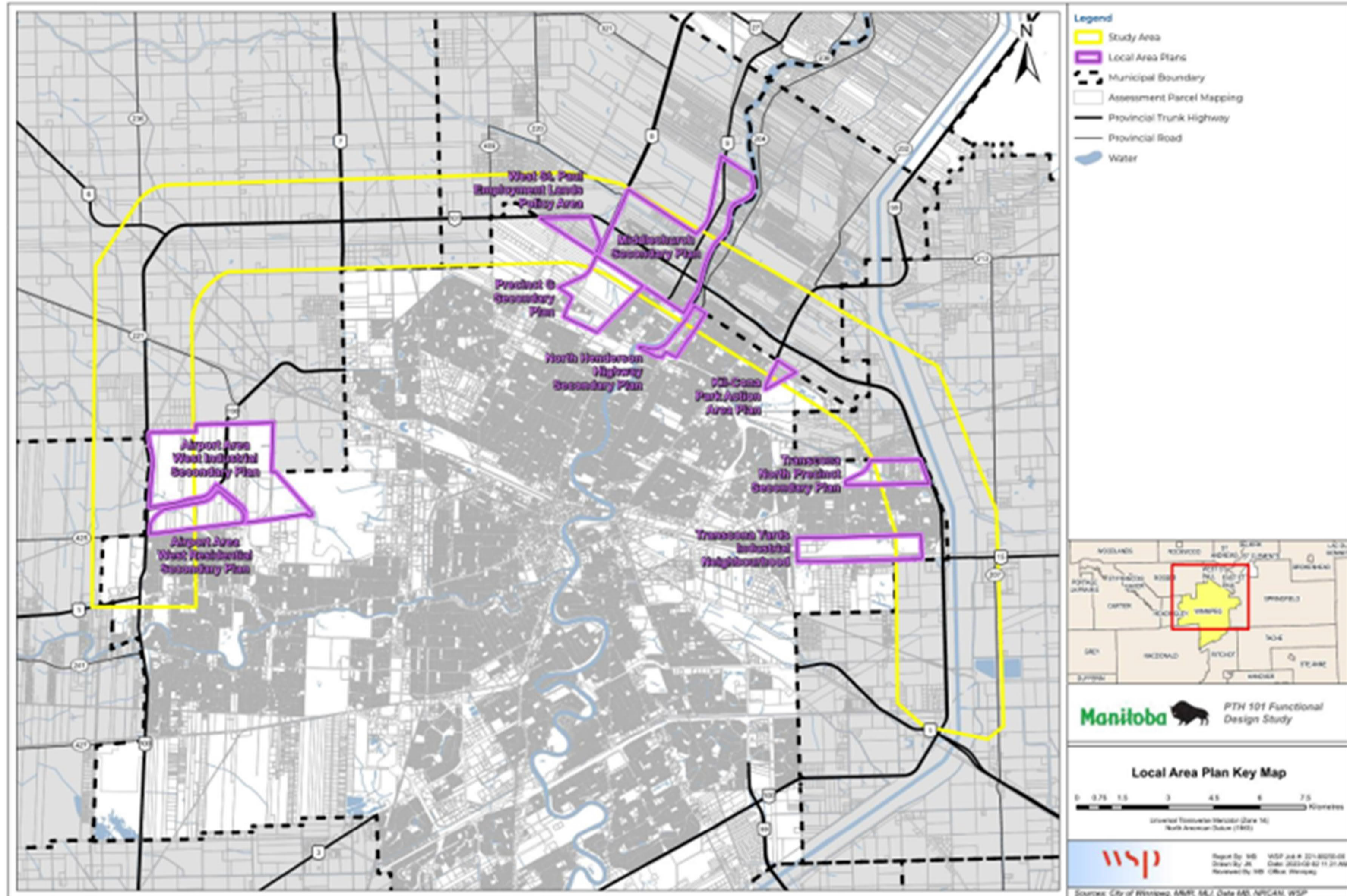
The North Perimeter (PTH 101) Highway Design Study



Land Use Designations

The North Perimeter (PTH 101) Highway Design Study





The project team will design and evaluate interchange alternatives based on the following criteria:



Engineering and Transportation

CRITERIA

- Safety
- Geometry
- Utilities
- Ease of Construction and Staging
- Traffic Operations



Community/Social Economic Impacts

CRITERIA

- Minimize Land Acquisition/ Severance
- Impact on Businesses
- Impact on Access
- Pedestrian/Cycling Accommodation



Cost Factors

CRITERIA

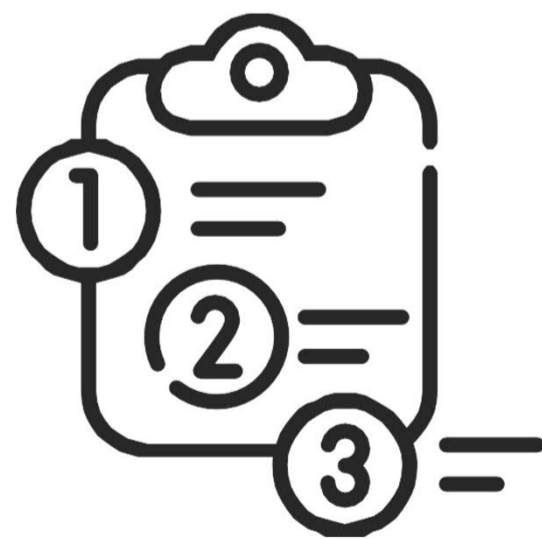
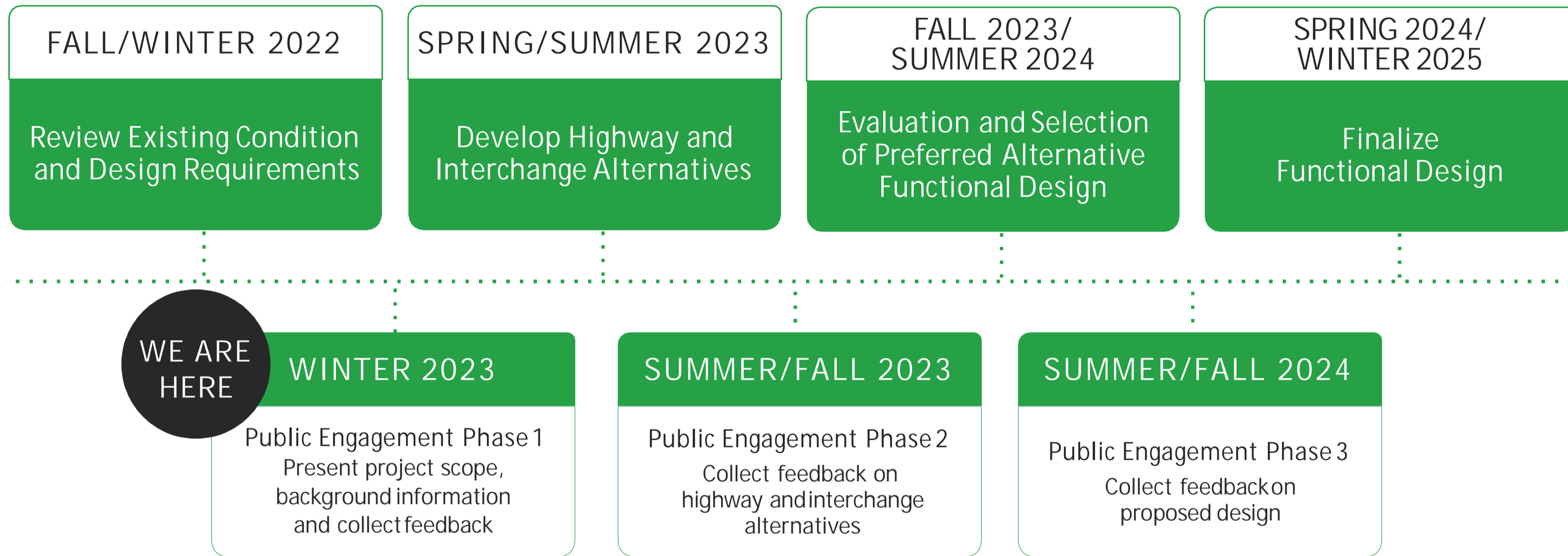
- Cost of Construction
- Right-of-Way Acquisition Cost



Environmental Impacts

CRITERIA

- Noise Impacts
- Natural Environment
- Habitat Impact
- Heritage Resources Impact



After completion of Phase 1 Engagement, the project team will focus on developing highway and interchange alternatives.

Phase 2 Engagement will include presentation of any proposed access closures, roadway, and interchange alternatives for PTH 101.

Thank you

Thanks for participating in Phase 1 Engagement for the North Perimeter (PTH 101) Highway Design Study.

For additional information, please contact:

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E: PTH101@wsp.com
T: 204-477-6650