Agenda – Council – May 26, 2022

Report – Standing Policy Committee on Infrastructure Renewal and Public Works – May 4, 2022

Item No. 2 New 2022 Capital Budget Project – Reconstruction of Creek Bend Road Bridge

STANDING COMMITTEE RECOMMENDATION:

On May 18, 2022, the Executive Policy Committee concurred in the recommendation of the Standing Policy Committee on Infrastructure Renewal and Public Works and submitted the following to Council:

1. That a new 2022 capital project in the amount of $3,500,000 be authorized and included in the 2022 Capital Budget, Regional and Local Street Renewal Program for "Creek Bend Road Bridge Reconstruction" (hereinafter "Project").

2. That the City enter into, execute, and deliver a funding agreement with the Province of Manitoba with respect to a $1,700,000 grant for the Project and that the Chief Administrative Officer be authorized to negotiate the terms and conditions of such funding agreement in accordance with this Report and such terms and conditions deemed necessary by the City Solicitor/Director of Legal Services to protect the interests of the City.

3. That the remaining $1,800,000 budget requirement be funded from the Local Street Renewal Reserve, Prior Years Surplus.

4. That the Proper Officers of the City be authorized to do all things necessary to implement the intent of the foregoing.

Report – Standing Policy Committee on Infrastructure Renewal and Public Works – May 4, 2022

DECISION MAKING HISTORY:

EXECUTIVE POLICY COMMITTEE RECOMMENDATION:

On May 18, 2022, the Executive Policy Committee concurred in the recommendation of the Standing Policy Committee on Infrastructure Renewal and Public Works and submitted the matter to Council.

STANDING COMMITTEE RECOMMENDATION:

On May 4, 2022, the Standing Policy Committee on Infrastructure Renewal and Public Works concurred in the recommendation of the Winnipeg Public Service and submitted the matter to the Executive Policy Committee and Council.

ADMINISTRATIVE REPORT

Title: New 2022 Capital Budget Project – Reconstruction of Creek Bend Road Bridge

Critical Path: Standing Policy Committee on Infrastructure Renewal and Public Works – Executive Policy Committee – Council

AUTHORIZATION

Author	Department Head	CFO	CAO
B. Neirinck, P. Eng.	J. Berezowsky	C. Kloepfer	M. Jack

EXECUTIVE SUMMARY

Manitoba Transportation and Infrastructure (MTI) is in the process of implementing safety improvements on the Perimeter Highway. These improvements include removing direct access to service roads (Aimes Road and Melnick Road), east of St. Anne's Road, from the Perimeter Highway.

As a result, MTI will upgrade these service roads with a new railway crossing of the CP Emerson Subdivision to connect Melnick Road with Aimes Road. In 2022, MTI will extend Aimes Road west to Creek Bend Road with access to Creek Bend Road and St. Anne's Road intersection.

In order to construct the new railway crossing, MTI will need to permanently close the Sioux Road West at Aimes Road as its proximity to the proposed railway crossing does not meet Transport Canada safety regulations. Thus, Sioux Road West traffic will be directed north towards Creek Bend Road and west across Creek Bend Road Bridge to St. Anne's Road.

The current Creek Bend Road Bridge is a timber bridge approximately 70 years old and nearing the end of its service life. It is load restricted, width restricted, and in poor condition. It cannot accommodate the farm equipment and transport vehicles currently using Sioux Road via Aimes Road to access the Perimeter Highway.

The existing timber bridge is forecasted to require replacement within approximately 5 years to provide reliable access to and from the east side of the Seine River.

The Province is offering a Grant of $1,700,000 to cost share the bridge reconstruction provided that the new bridge is open for traffic by September 1, 2024. The Class 5 estimate for the bridge reconstruction is $3,500,000.

A new bridge would be two lanes wide and include safe accommodation of pedestrians and cyclists with a separated multi-use path.

If the bridge is not reconstructed, the Province would construct a temporary gravel road east towards Lagimodiere until Precinct K builds out. The gravel road would be a similar cost to the proposed Grant.

RECOMMENDATIONS

1. That a new 2022 capital project in the amount of $3,500,000 be authorized and included in the 2022 Capital Budget, Regional and Local Street Renewal Program for “Creek Bend Road Bridge Reconstruction” (hereinafter “Project”).

2. That the City enter into, execute, and deliver a funding agreement with the Province of Manitoba with respect to a $1,700,000 grant for the Project and that the Chief Administrative Officer be authorized to negotiate the terms and conditions of such funding agreement in accordance with this Report and such terms and conditions deemed necessary by the City Solicitor/Director of Legal Services to protect the interests of the City.

3. That the remaining $1,800,000 budget requirement be funded from the Local Street Renewal Reserve, Prior Years Surplus.

4. That the Proper Officers of the City be authorized to do all things necessary to implement the intent of the foregoing.

REASON FOR THE REPORT

Council approval is required to authorize new capital projects and to enter into the recommended funding agreement.

IMPLICATIONS OF THE RECOMMENDATIONS

Approval of this report provides Council approval for the Project estimated at $3,500,000, including $1,700,000 in funding from the Province of Manitoba. The remaining funds will be provided through the Local Street Renewal Reserve, Prior Years Surplus.

The funding from the Province of Manitoba is conditional upon the bridge being reopened to traffic by September 1, 2024.

HISTORY/DISCUSSION

BACKGROUND AND PROJECT AREA

Creek Bend Road is a two-lane, undivided, non-Regional local street with a 50 km/h speed limit. The cross-section is urbanized between St. Anne’s Road and approximately 250 metres north where there is a bridge crossing the Seine River. Multi-family developments are on this section of Creek Bend Road. The average weekday daily traffic volume is approximately 450 vehicles per day.

North of the Seine River, the cross-section of Creek Bend Road changes to rural with a gravel road surface and ditches for drainage. Single family residential properties are present on this section.

Figure 1 illustrates the area under consideration.

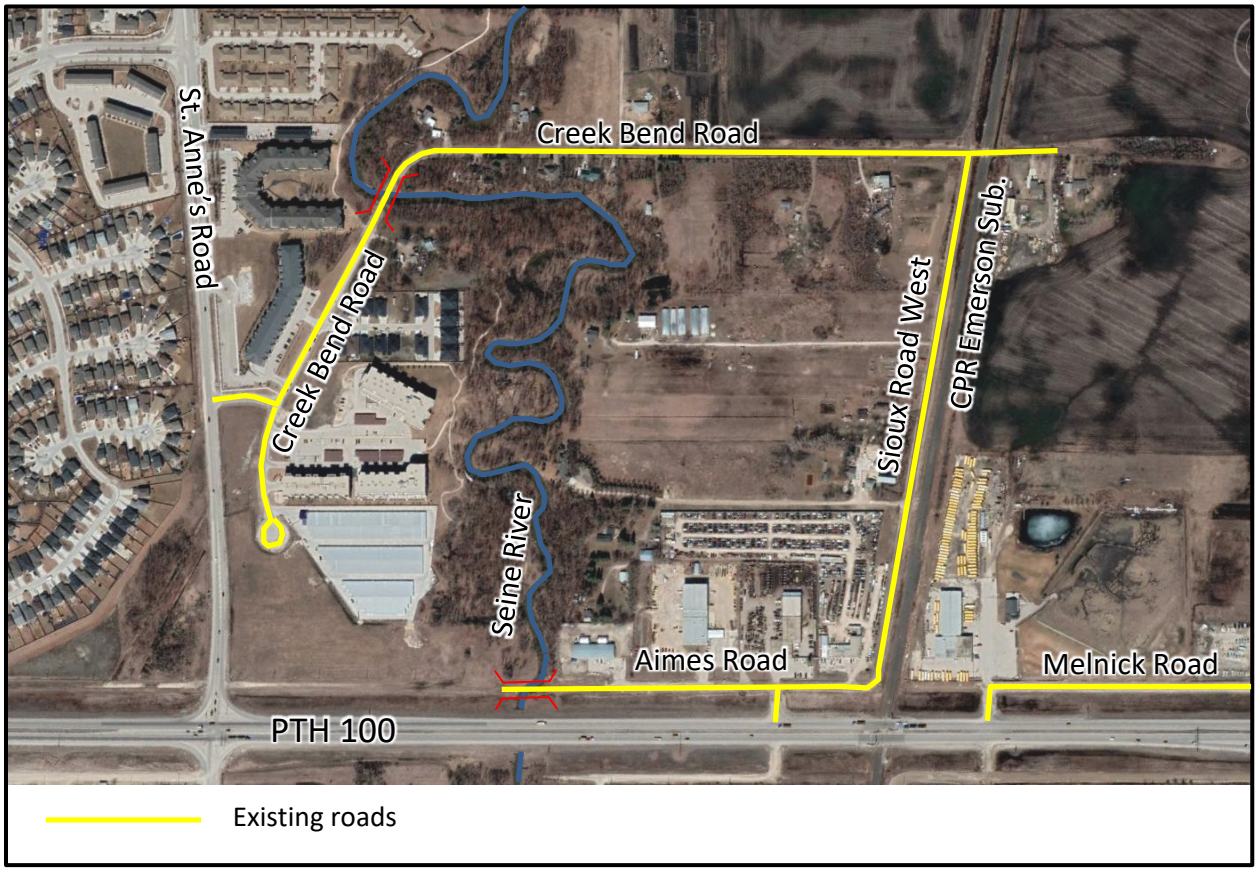


Figure 1: Area under consideration showing existing roads

BACKGROUND TO PRECINCT 'K'

On July 16, 2014, Council passed By-law 48/2014, a By-law of the City of Winnipeg to adopt a secondary plan for Precinct 'K' of the Complete Communities Direction Strategy By-law No. 68/2010, the "Precinct Plan" for Precinct 'K'.

Figure 2, below, from the Precinct K Plan, identifies the land use and transportation concept for Precinct 'K' at full build-out. The primary regional street / arterial roadway connection to the precinct lands will be via Warde Avenue (including future extension and connection to St. Anne's via a new bridge over the Seine River).

The Precinct Plan indicates that Creek Bend Road, including the bridge over the Seine River, will also provide access to Precinct 'K' in the short and long term. One of the Precinct Plan's guiding principles is to "retain [the] rural character of the existing area located generally along the Seine River on Creek Bend Road and Sioux Road". Proposed land use along Creek Bend Road immediately east of the Seine River is proposed to be "Estate Residential".

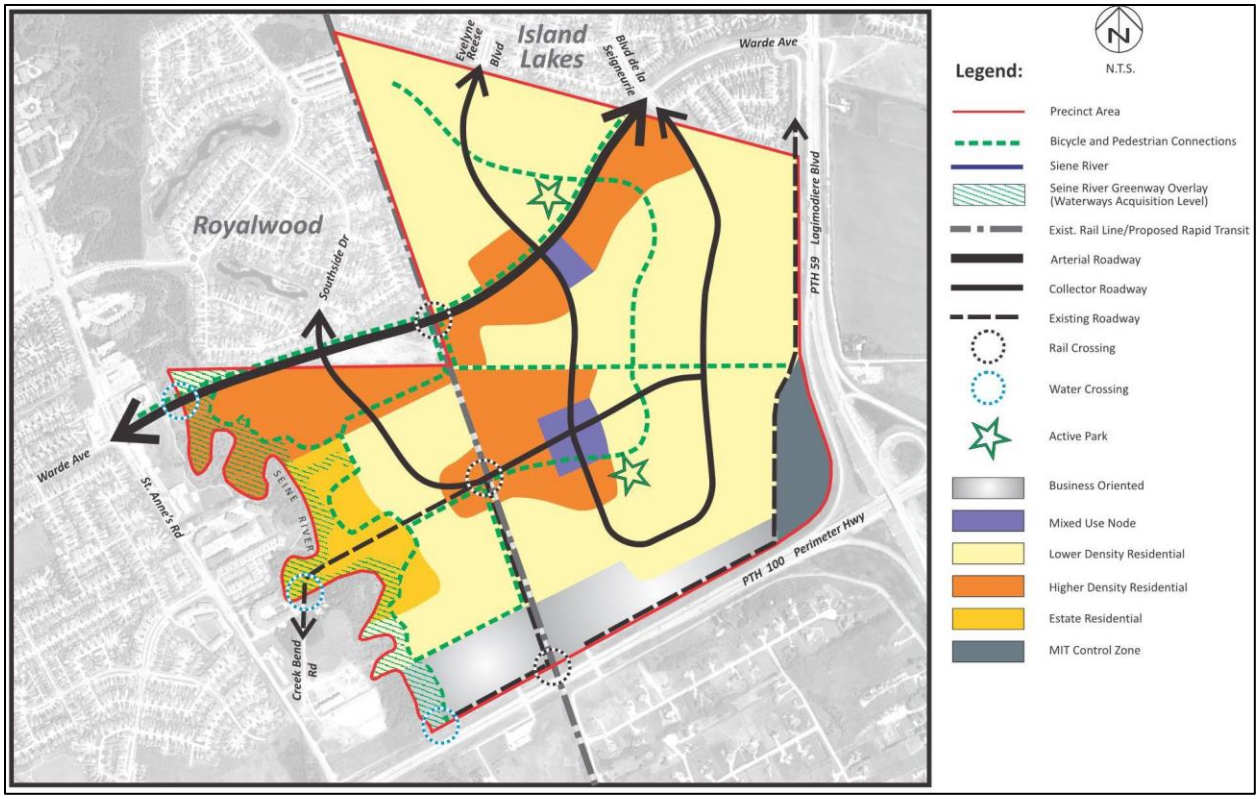


Figure 2: Precinct 'K' Land Use and Transportation Concept **(Source: By-law 48/2014)**

BACKGROUND TO BRIDGE REPLACEMENT

Manitoba Transportation and Infrastructure (MTI) is in the process of implementing safety improvements on the Perimeter Highway (PTH 100). These improvements include eliminating direct access to PTH 100 from minor roads. MTI plans to remove direct access to the service roads (Aimes Road and Melnick Road) on the north side of PTH 100, east of St. Anne's Road.

In order to provide long-term access to properties impacted by these closures, MTI will upgrade and provide alternate connections to these service roads. This includes the following:

- In 2022, MTI will extend Aimes Road west to Creek Bend Road's southern terminus (existing bus turnaround loop), providing access to the Creek Bend Road and St. Anne's Road intersection. Geometric improvements to existing roadways and intersections (Creek Bend Road @ Creek Bend Road/connection to St. Anne's Road) will be made at this time.
- In the near future, MTI will construct a new railway crossing of the CP Emerson Subdivision to connect Melnick Road to Aimes Road, providing a continuous service road on the north side of PTH 100.

In order to construct the new railway crossing, closure of a portion of Sioux Road West immediately north of Aimes Road will be required. This is because Sioux Road West is too close to the proposed railway crossing, and would not comply with Transport Canada safety regulations if it were to remain.

Once Sioux Road West is no longer connected to Aimes Road, the only route available for traffic originating on Sioux Road West will be north towards Creek Bend Road and then west

across the Creek Bend Road Bridge, and on to St. Anne's Road. From there, the traffic may continue to access PTH 100 or the City's street network via St. Anne's Road.

In order to accommodate this traffic, replacement of the bridge on Creek Bend Road over the Seine River is required. The current bridge on Creek Bend Road over the Seine River is a timber bridge, approximately 70 years old, and nearing the end of its service life. It is load restricted, width restricted, and in poor condition. It cannot accommodate the farm equipment and transport vehicles currently using Sioux Road West via Aimes Road to access the Perimeter Highway. The existing timber bridge is forecasted to require replacement within approximately 5 years to provide reliable access to and from the east side of the Seine River.

Given that a substantial part of the impetus for bridge replacement is stemming from the Province's PTH 100 safety upgrades and associated changes to area access, the Province is offering a Grant of $1,700,000 to cost share the bridge replacement, provided that the new bridge is open for traffic by September 1, 2024. The Class 5 estimate for the bridge reconstruction is $3,500,000.

An alternative to the replacement of the Creek Bend Road Bridge was explored. This alternative solution consists of constructing a temporary extension of Creek Bend Road (east of the Seine River) further east, connecting directly to Melnick Road approximately 1.0 km to the east. The cost of this connection was estimated to be approximately equal to the Province's proposed grant amount. Because the majority of this temporary road would be "throw-away" upon full build out of the Precinct K area, it is preferred that these funds are invested towards replacing the Creek Bend Road Bridge, a solution which will better serve the existing community and Precinct 'K' in the long term.

Additionally, one of the guiding principles of the Precinct Plan is that it is "walkable and connected" and serves "…to promote active lifestyles for residents of all ages and promote connectivity along and to the Seine River Corridor, as well as within the rest of the Precinct…". It is anticipated that the new bridge will carry pedestrians and cyclists, particularly in the long term after full build-out of Precinct 'K'. The bridge will provide connections for active modes to the linear greenspaces along the Seine River and the existing Bois-des-Esprits path system. Therefore, the bridge replacement will include appropriate facilities for pedestrians and cyclists.

CONSTRUCTION STAGING

Construction staging of the work is anticipated to occur in the following order, refer to Appendix 1 (attached) for images associated with this description.

Phase 1

In summer 2022, it is anticipated MTI will complete construction of a new service road, extending Aimes Road west and up to Creek Bend Road (to connect with St. Anne's Road). The existing connection from PTH 100 to Aimes Road will remain open until construction of the new service road is complete. The existing bridge on Creek Bend Road will also remain in service during this time.

Phase 2

City of Winnipeg reconstructs the bridge on Creek Bend Road over the Seine River. The connection from PTH 100 to Aimes road is closed. Traffic coming from or going to either Sioux

Road West or Creek Bend Road (east of the Seine River) would use the newly constructed service road (Aimes Road) during this time. It is anticipated the new Creek Bend Road Bridge will be open to traffic by September 1, 2024. During or immediately following bridge construction, MTI will construct the rail crossing and connection of Aimes Road and Melnick Road.

Phase 3

With the bridge on Creek Bend Road now replaced and open to traffic, a portion of Sioux Road West can be permanently closed, facilitating the completion of construction and subsequent opening of a new rail crossing of the CP Emerson Subdivision. This rail crossing connects Aimes Road with Melnick Road, allowing closure of the connection from PTH 100 directly to Melnick Road.

FINANCIAL IMPACT

Financial Impact Statement

Date: April 14, 2022

Project Name:

First Year of Program **2022**

New 2022 Capital Budget Project – Reconstruction of Creek Bend Road Bridge

	2022	2023	2024	2025	2026
Capital					
Capital Expenditures Required	$ 3,500,000	$ -	$ -	$ -	$ -
Less: Existing Budgeted Costs	-	-	-	-	-
Additional Capital Budget Required	$ 3,500,000	$ -	$ -	$ -	$ -
Funding Sources:					
Debt - Internal	$ -	$ -	$ -	$ -	$ -
Debt - External	-	-	-	-	-
Grants - Province of Manitoba	1,700,000	-	-	-	-
Reserves, Equity, Surplus	1,800,000	-	-	-	-
Other - Trans Canada Trail		-	-	-	-
Total Funding	$ 3,500,000	$ -	$ -	$ -	$ -
Total Additional Capital Budget Required	$ 3,500,000				
Total Additional Debt Required	$ -				
Current Expenditures/Revenues					
Direct Costs	$ -	$ -	$ -	$ -	$ -
Less: Incremental Revenue/Recovery	(172,939)	-	-	-	-
Net Cost/(Benefit)	$ 172,939	$ -	$ -	$ -	$ -
Less: Existing Budget Amounts	172,939	-	-	-	-
Net Budget Adjustment Required	$ -	$ -	$ -	$ -	$ -

Additional Comments: The Creek Bend Road Bridge Reconstruction project is estimated to cost $3,500,000.00 (Class 5 Estimate). Pending approval of the recommendations in this report, this new project will be added to the 2022 Regional and Local Street Renewal Program and will be funded by a Cost Share Grant Agreement with the Province of Manitoba in the amount of $1,700,000.00 and unallocated Local Street Renewal - project #1804000121. The new project will be identified as #1806101122 – Creek Bend Road Bridge Reconstruction. Funding from the Province of Manitoba is conditional upon the bridge being reopened to traffic by September 1, 2024. Incremental Revenue/Recovery represents estimated Departmental, Corporate, and Administrative overheads.

J. Ruby, 2022-04-14

J. Ruby, CPA, CA
Manager of Finance and Administration

CONSULTATION

This Report has been prepared in consultation with:

- Legal Services with respect to legal issues.

OURWINNIPEG POLICY ALIGNMENT

The Sustainable Transportation Direction Strategy developed as part of OurWinnipeg forms the policy framework for the Transportation Master Plan (TMP). Sustainable Transportation identified a vision and five Key Strategic Goals which are critical to achieving a balanced and sustainable transportation system for Winnipeg. These goals form the basis for the TMP and the directions and strategies contained within it:

1. A transportation system that is dynamically integrated with land use;
2. A transportation system that supports active, accessible and healthy lifestyle options;
3. A safe, efficient and equitable transportation system for people, goods and services;
4. Transportation infrastructure that is well maintained; and
5. A transportation system that is financially sustainable.

The recommendations within this report are consistent with the Key Strategic Goals.

WINNIPEG CLIMATE ACTION PLAN ALIGNMENT

The installation of a sidewalk on Creek Bend Road is aligned with 3.4 Increase Active Transportation Rates.

There is a linkage between making Winnipeg's transportation network safer and more efficient.

WINNIPEG POVERTY REDUCTION STRATEGY ALIGNMENT

n/a

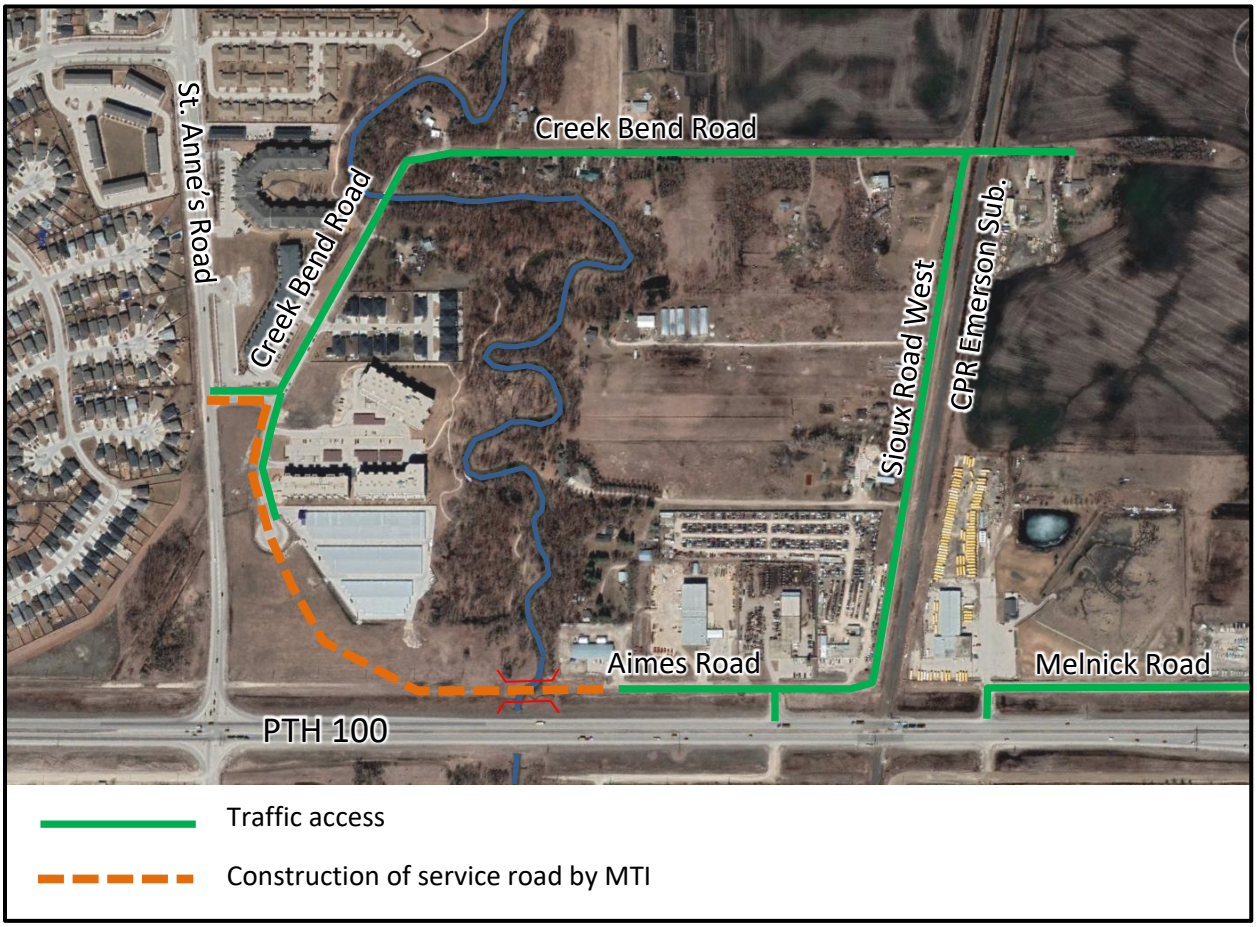
SUBMITTED BY

Department: Public Works
Division: Engineering
Prepared by: Brad Neirinck. P. Eng. / Cameron Ward, P. Eng.
Date: April 14, 2022

Attachments:
Appendix 1 – Construction Staging

Appendix 1 – Construction Staging

Phase 1 – Summer 2022



Appendix 1 – Construction Staging

Phase 2

- Bridge replacement anticipated 2023-2024 and in-service by September 1, 2024.
- Rail crossing construction anticipated immediately following bridge replacement.



Appendix 1 – Construction Staging

Phase 3 – Final Configuration

