Minutes – Standing Policy Committee on Finance and Economic Development – October 11, 2023

#### **REPORTS**

Item No. 7 St. Vital over the Red River Bridge Rehabilitation,

Project ID: 1805002721, and 1804000224, Quarterly Project Status Report No. 4 For the Period Ended June 30, 2023

#### STANDING COMMITTEE DECISION:

The Standing Policy Committee on Finance and Economic Development concurred in the recommendation of the Winnipeg Public Service and received the financial status of the St. Vital over the Red River Bridge Rehabilitation, as contained in this report, as information.

# Minutes – Standing Policy Committee on Finance and Economic Development – October 11, 2023

## DECISION MAKING HISTORY:

Moved by Councillor Rollins,

That the recommendation of the Winnipeg Public Service be concurred in.

Carried

## **ADMINISTRATIVE REPORT**

Title: St. Vital over the Red River Bridge Rehabilitation,

Project ID: 1805002721, and 1804000224, Quarterly Project Status Report No. 4 For the Period Ended June 30, 2023

Critical Path: Standing Policy Committee on Finance and Economic Development

#### **AUTHORIZATION**

Author	Department Head	CFO	CAO			
B Neirinck, P. Eng.	L. Nichols on behalf of J. Berezowsky	L. Szkwarek, Acting CFO	M. Jack			

#### **EXECUTIVE SUMMARY**

Project On Schedule: Yes ☑ No ☐ Project On Adopted Budget: Yes ☑ No ☐

Percent of Schedule Complete: 55% Percent of Adopted Budget Spent:

14%

The project is forecast to be on time.

This is the fourth quarterly report to the Standing Policy Committee on Finance and Economic Development on this project. The total project budget and estimate at completion is unchanged since the last reporting to the committee and remains at \$57,574,000. Expenditures to date total \$7,182,241.61.

During the previous reporting period, M.D. Steele Construction Ltd. was awarded Phase 1 of the Work on February 10, 2023, and construction began on March 01, 2023. During this reporting period, Phase 2 of the Work was awarded on April 18, 2023 for a total contract price of \$42,909,228.72, plus G.S.T.

During the tender period, the steel girder preservation coating was removed from the tender as indications were that these coating costs were to going to be very high. During this reporting period value engineering was undertaken to develop a cost-effective coating alternative that encompasses coating types, methods and schedule requirements. A combination of lump sum items (coatings) and time-and-materials payment basis items (heating and hoarding, schedule adjustments) comprised the final estimate for this work, totaling \$4,056,227.00.

Additionally, a risk developed during the previous reporting period, related to recent riverbank and pier movements on the north riverbank. Riverbank movements were monitored throughout the engineering phases of the project that resulted in recommended slope grading

improvements being included in the tender. However, recent monitoring has indicated that there has been a recent movement of the bridge pier on the north riverbank. Structural and geotechnical analysis of the bridge pier has indicated that structural underpinning and additional slope stability measures are required. For due diligence, other riverbank piers will be reviewed to confirm whether additional work at those locations is required. An allowance of \$2,000,000.00 has been identified for pier stabilization works. This work is being undertaken on a time and material basis with payments based on actual costs.

On June 8, 2023, the Standing Policy Committee on Public Works concurred in the recommendation of the Winnipeg Public Service and approved an over expenditure of 14.11% or \$6,056,227.00, for girder coating and pier stabilization works, on the construction contract awarded to M.D. Steele Construction Limited for a revised contract amount of \$48,965,455.72, plus G.S.T.

The Advisory Committee has reviewed this report and recommends that the report be sent to the Standing Policy Committee on Finance and Economic Development.

#### **RECOMMENDATIONS**

That the financial status of the St. Vital over the Red River Bridge Rehabilitation, as contained in this report, be received as information.

#### **REASON FOR THE REPORT**

The Asset Management Administrative Standard FM-004 requires all projects with a total estimated cost of \$25 million (2023) or more report quarterly to the Standing Policy Committee on Finance and Economic Development. This threshold is reviewed at the beginning of each multi-year budget cycle. The Standing Policy Committee on Finance and Economic Development may also request reporting on any capital project.

#### IMPLICATIONS OF THE RECOMMENDATIONS

As this report is for information purposes only, there are no implications.

#### HISTORY/DISCUSSION

See Appendix C – Key Project Events (History)

#### **Construction** (Update from last report)

Key project events that have occurred are as follows:

 Construction on the East (southbound) structure progressed during this reporting period and consisted mainly of deck removals on the entire superstructure, girder strengthening, and abutment concrete repairs.

- Phase 2 of the Construction Contract for the Work was awarded on April 18, 2023, for a total contract price of \$42,909,228.72, plus G.S.T. as the 2023 Capital budget was approved in March 2023, which included a first charge of \$33,900,000 on the 2024 Capital budget allocated to the St. Vital bridge project.
- Monitored riverbank and concrete pier movement at the north bank of the Red River and subsequent analysis have prompted the undertaking of immediate stabilization work at that location. Work commenced as spring flood levels receded. An allowance of \$2,000,000.00 has been identified for riverbank/pier stabilization works.
- The Standing Policy Committee on Public Works approved an over expenditure of 14.11% or \$6,056,227.00 on the construction contract for steel girder preservation coating and riverbank/pier stabilization works, for a revised contract amount of \$48,965,455.72, plus G.S.T. during the June 08, 2023 meeting.
- A change in scope re-instating the steel girder preservation coatings item of Work (previously removed during the tender period) was approved for a total of \$4,056,227.00.
- Roadway Construction commenced in early June 2023, currently consisting of major rehabilitation of both southbound and northbound lanes of Osborne Street, between Jubilee Avenue and Rathgar Avenue, as well as the west access road south of the bridge, between Kingston Row and Dunkirk Drive.
- Substantial Performance for this Project is still anticipated to be on October 31, 2024.
- Total Performance for this Project is still anticipated to be June 30, 2025.

Table 1 – Contracts

Opportunity #  RFP 244-2021  RFP 244-2021	Hershfiled Limited Morrison Hershfiled Limited	Description  Consulting Services for Preliminary Engineering Study  Consulting Services for Detailed Design	Original Contract Award Value (GST & MRST extra as applicable) \$ 798,091.00	Total Approved Over- Expenditures (Over- Expenditure amount only)  \$ 159,629.00	Date of Award	Date of Total Completion	Estimated % Complete
RFP 244-2021	Hershfiled Limited Morrison Hershfiled Limited	for Preliminary Engineering Study Consulting Services	,	\$ 159,629.00	12-July-21	30-May-22	100%
	Hershfiled Limited	•	1 519 552 00	l			
Tender No. 29-	Manle Leaf	Engineering	1,313,332.00	-	23-Aug-22	20-Jan-23	100%
2021, CWO #2 C	Construction Ltd.	Contract - Temporary Detour Works - Cross overs construction	222,210.00	-	24-Aug-22	21-Oct-22	100%
RFP 244-2021	Morrison Hershfiled Limited	Consulting Services for Contract Administration and Post Construction Services	2,394,161.00	-	30-Jan-23		22%
	Construction Ltd.	Contruction Contract - Phase 1 of Works associated with design scope of RFP 244-2021	16,181,098.75	6,056,227.00	10-Feb-23		30%
	Construction Ltd.	Contruction Contract - Phase 2 of Works associated with design scope of RFP 244-2022	26,728,129.97 \$ 47.843.243	\$ 6.215.856	18-Apr-23		

**Upcoming Procurements:** 

Description	Anticipated Award Date
Funding Agreement between the City of Winnipeg and Winnipeg Arts Council Inc. for the Public Art Component of the Work	31-Jul-23
Manitoba Hydro - Electrical Service Agreement - Installation of Utilities under the Southbound structure	01-Sep-23

## **Schedule** (Update from last report)

The project is currently forecast to be on schedule. Work associated with the main construction contract, Phase 1, started March 01, 2023. Phase 2 was awarded in April 2023, and the roadworks construction, associated with Phase 2, started in early June 2023.

Table 2 – Milestones

Project Milestones												
		Original	Revised	Actual	Estimated %							
De	liverable	Targeted	Targeted	Completion	Complete							
		Completion Date	Completion Date	Date								
1	Preliminary Design	2022 Q2		2022 Q2	100%							
2	Detailed Design	2022 Q4		2022 Q4	100%							
3	Contract Administration	2025 Q2			18%							
4	Detour Lanes	2022 Q4		2022 Q4	100%							
5	Contract - Bridge Works	2024 Q4			20%							
6	Substantial Performance	2024 Q4										
7	Total Performance	2024 Q4	2025 Q2									
8												

## **Risk** (Update from last report)

There are no new risks to report. All ongoing and mitigated major project risks are identified in the table below.

Table 3 – Significant Risks and Mitigations Strategies

Significant Risks and Mitigation Strategies										
Risk Statement and Explanation	Risk Mitigation Management Plan									
New: N/A										
Ongoing:										
Riverbank movements on the North bank of the Red River have been observed.	Continually monitor the movements, especially during the spring high river levels and subsequent drawdown. Offloading of the riverbank commenced along with underpinning of the north riverbank pile cap.									
COVID-19 Pandemic	Monitor the pandemic and impacts to project schedule and workforce. Collaborate with local government, Contractor and project Engineering Consultant to minimize impacts.									
Reduction of available working days due to poor weather conditions during construction season, such as rainy weather during road construction, warm weather when frozen Red River is utilized to perform work off the ice, and the Provincial limitations to in water works in the spring	Bid opportunity to use a completion date contract, with multiple defined Critical Stages with Liquidated Damages assigned.									
Supply chain issues to due COVID-19 pandemic and recent political events worldwide	Consultant to inquire with Contractor throughout the Construction period to ensure that materials specified are available									
Unknowns/Unforeseen Costs.	Refine level of detail of estimates to minimize amounts and quantities of unknowns and unforeseen.									
Mitigated:										
Delay in obtaining applicable Department of Fisheries and Oceans, City Waterways, and Provincial Waterways permits for the project.	Regulatory approvals secured.									
Possible delay to the project due to utilities (Hydro, MTS, Shaw, etc.) requirement for relocation or new plant construction and meeting the current project schedule.	Keep the utilities well informed throughout regarding the preliminary, detailed, and construction time schedules. Assist where possible, provide timely responses, ideally have the utilities complete their work as per the Consultant's proposed construction sequence to where possible									
Increases in material costs due to recent inflation of goods in Canada and worldwide	Consultant to inquire with material suppliers and contractors throughout the design and tendering periods to ensure an accurate Engineer's estimate									
Non-adoption of forecasted funds required due to the increase in project costs as a result of additional scope	Refining estimates and optimizing designs, prior to future Council approved budget adoptions									
Non-approval of first charge requests on forecasted funds required	Optimizing the first charge report to elaborate precisely on reasons why the first charge is required.									
* Not every risk needs be disclosed but those significant in nature to the project should be dislcosed and monitored. Risks should be in order from higher to lower assessed risk and revised on an ongoing basis.										

#### **Financial** (Update from last report)

For further information, refer to Appendix B – Financial Forecast

Expenditures to date primarily consist of Professional Services, temporary cross-over detours, and start of Construction Works, which all equate to \$7,182,241.61.

Currently, the total project Estimate at Completion remains at \$57,574,000.00.

#### **Funding** (Update from last report)

The total project budget remains at \$57,574,000. No changes occurred since the last reporting to the committee.

Table 4 - Project Funding Forecast

Funding Forecast													
Funding Source	Adopted Budget (in thousands)*	Council Approved Changes (in thousands)	Amended Budget (in thousands)	Committed (in thousands)*									
Class of Estimate	Class 3		Class 1										
- Regional Street Renewal Reserve	11,201	5,000	16,201	16,201									
- Frontage Levy	14,916	0	14,916	14,916									
- Canada Community Building Fund	26,457	0	26,457	26,457									
Total	\$ 52,574	\$ 5,000	\$ 57,574	\$ 57,574									

<sup>\*</sup>on June 23, 2022 Council approved and authorized a First Charge on the 2023 Capital Budget for the St. Vital Bridge Rehabilitation project in the amount of \$15,600,000.

#### **Property Acquisition** (Update from last report)

N/A – No property acquisition is required as part of the Project

#### **Stakeholder Engagements/Communications** (Update from last report)

N/A – No activity since last reporting period.

#### **Subsequent Events after Report Period End Date**

Risk:

<sup>\*</sup> On March 22, 2023 Concil approved and autorized a First Charge on the 2024 Capital Budget for the St. Vital Bridge Rehabilitation in the amount of \$33,900,000

As a result of the north riverbank/pier movement and required remedial stabilization
measures, due diligence has necessitated a review of the south riverbank/pier as a new
risk. Although recent riverbank/pier movements have not been detected, smaller scale
historical movements have occurred at this location. Monitoring and structural analysis
is underway at this location to determine if any remedial work is required at that location.
 Stakeholder Engagements/Communications:

• The City received a fee proposal from Winnipeg Arts Council Inc. for their efforts in engaging in the public art component of the project, taking out a call for artists, and hiring the successful artist to design the art for a total of \$200,028.00, plus applicable M.R.S.T. and G.S.T. This ask was approved by the Chief Financial Officer on July 4, 2023, under contract MM Ref No. 513-2023. The City is currently in the process of creating a Legal Services Agreement with Winnipeg Arts Council Inc. to formally award them the assignment.

#### FINANCIAL IMPACT

Financial Impact Statement Date: August 11, 2023

## **Project Name:**

St. Vital over the Red River Bridge Rehabilitation Project ID: 1805002721 & 1804000224 Quarterly Project Status Report No. 4 For the Period Ended June 30, 2023

#### **COMMENTS:**

As this report is for informational purposes only, there is no financial impact. See Appendix B as to the financial status of this project.

Angela Neufeld 2023-08-11

for J. Ruby, CPA, CA Manager of Finance & Administration

#### CONSULTATION

This Report has been prepared in consultation with:

N/A

#### **OURWINNIPEG POLICY ALIGNMENT**

Good Health and Well-Being (HW):

4.10 Transportation Safety: Design, construct, maintain and regulate an integrated and sustainable transportation system and related infrastructure that optimize safe, connected and reliable mobility, and minimize severe injuries and fatalities.

#### WINNIPEG CLIMATE ACTION PLAN ALIGNMENT

N/A

#### WINNIPEG POVERTY REDUCTION STRATEGY ALIGNMENT

Goal 5: Transportation System Equity is Enhanced

The St. Vital bridge is currently not bike friendly and travel may be dependent on access to motorized vehicles. The extension of the active transportation network across the bridge and to existing nodes in the north and south vicinities and therefore fits the direct 10-year objective that states that Improvements to transportation infrastructure and services prioritize areas of higher poverty, and increased interconnectivity to employment and affordable goods and services.

#### **SUBMITTED BY**

**Department:** Public Works

**Division:** Engineering

Prepared by: Damir Muhurdarevic, P.Eng., Bridge Projects Engineer

**Date:** August 11, 2023

#### **Appendices**

Appendix A – Key Project Facts

Appendix B – Financial Forecast

Appendix C – Key Project Events (History)

## Appendix A – Key Project Facts

Business Owner (Department)	Public Works Department						
Project ID	1805002721 & 1804000224						
Project Sponsor	Brad Neirinck, P.Eng., Manager of						
Toject openser	Engineering						
Department Responsible for Project Delivery	Public Works Department						
Consultant Engineer (Company Name)	Morrison Hershfield Limited						
Adopted/Forecasted* Budget	\$57,574,000.00						
Class of Estimate (Adopted/Forecasted*)	Class 1 (-5% to +10%)						
Range of Estimate (Adopted/Forecasted*)	\$54,695,300 to \$63,331,400						
Amended Budget	N/A						
Class of Estimate (Amended)	N/A						
Range of Estimate (Amended)	N/A						

#### **Project Description (Scope)**

- Major rehabilitation and deck widening of the St. Vital Bridge twin structures
- Rehabilitation of roadway adjacent to both sides of the bridge, Route 62, between Fermor Avenue and Rutgar Avenue, including intersection improvements at Fermor Avenue and Dunkirk Drive
- Rehabilitation and geometric changes to the access ramps to and from Kingston Row, including rehabilitation of Kingston Row between the ramps
- Temporary cross-over lanes' construction to faciliatate structure closures and allow for complete consecutive bridge structure rehabiliation
- Expansion of the active transportation network on both bridge sturctures and connections to existing networks on both sides of the Red River
- Expansion and changes to the Transit stop network along route 62
- Rehabilitation of culverts under Osborne Street and Dunkirk Drive as part of the active transportation network
- Slope stabilization of the Red River embankments in the vicinity of the bridge on both banks of the Red River
- Professional services for preliminary design, detailed design, contract administration, and postconstruction services
- Utility expansion and relocations

#### Committee Membership:

- Jim Berezowsky, Director of Public Works (Chair)
- Brad Neirinck, Manager of Engineering (Project Sponsor)
- Jason Ruby, Manager of of Finance & Administration
- Tim Shanks, Director of Water & Waste Department
- Marc Pittet, Acting Director of Planning, Property, & Development
- Danny Tooth, Acting Manager, Major Projects Oversight

<sup>(\*) –</sup> Projects with aggressive schedules are inherently more risky and more likely to experience cost overruns and schedule delays.

## **Appendix B – Financial Forecast**

Appendix B - Project #1805002721 (St. Vital Bridge Rehab) & #1804000224 (Regional and Local Street Renewal Program) Financial Forecast
As at June 30, 2023

		Budget	(in 000	)'s)			Expenditure Forecast (in 000's)													
Project Component Deliverables	•	d/Forecasted* Budget	d* Council Approved Change		Amended Budget		Actual Costs To Jun 30/23		2023		Projected 2024					2026		Total ecasted Costs	Surplus d (Deficit) From Amended Budget	
Engineering, Design and Other	\$	5,114	\$	-	\$	5,114	\$	2,931	\$	678	\$	1,668	\$	163			\$	5,440	\$	(326)
Construction	\$	39,843	\$	5,000	\$	44,843	\$	4,005	\$	17,862	\$	23,744	\$	3,694			\$	49,305	\$	(4,462)
Land Acquisition	\$	-	\$	-	\$	-											\$	-	\$	-
Internal Financing/Overhead Costs	\$	1,611	\$	-	\$	1,611	\$	246	\$	624	\$	787	\$	112			\$	1,769	\$	(158
Contingency	\$	6,006	\$	-	\$	6,006					\$	1,060					\$	1,060	\$	4,946
Total Project Budget	\$	52,574	\$	5,000	\$	57,574	\$	7,182	\$	19,164	\$	27,259	\$	3,969	\$	-	\$	57,574	\$	-
% of Project Budget Spent (Actual Costs to Date / Adopted & Amended						100/														

12%

14%

. Budget)

 iance Report	hange Variance
\$ 217	\$ (543)
\$ (231)	\$ (4,231)
\$ -	\$ -
\$ (36)	\$ (122)
\$ 50	\$ 4,896

	Project #	Add	opted Budget (in thousands)	2023	casted Budget per 3 Adopted Capital get (in thousands)	For	Total Adopted/ ecasted Budget (in thousands)	Actual Costs (in thousands)		
	1805002721	\$	46,874	\$	-	\$	46,874	\$	7,182	
	1804000224	\$	10,700	\$	-	\$	10,700			
Ī	Total	\$	57,574	\$	-	\$	57,574	\$	7,182	

<sup>\*</sup> Adopted budget includes First Charge of \$33,900,000 on the 2024 Capital Budget approved by Council on March 22, 2023

## Appendix C – Key Project Events (History)

- On December 16, 2020, Council approved the 2021 Capital Budget, of which, \$2,000,000 is allocated to the St. Vital Bridge Rehabilitation Project. A portion was used to undertake the preliminary engineering study for the Project.
- On July 12, 2021, Morrison Hershfield Limited was awarded the consulting services for a preliminary engineering study under RFP No. 244-2021.
- Site Investigations and analyses occurred in summer/fall of 2021.
- On December 15, 2021, Council approved the 2022 Capital Budget, of which, \$6,074,000 is allocated to the St. Vital Bridge Rehabilitation Project.
- Preliminary Design of the bridge rehabilitation and widening, and all other works occurred over the winter/spring of 2022, with preliminary design finalized in May 2022.
- A class 3 Basis of Estimate (BoE) was submitted alongside the final Preliminary Design Report, and is still currently under review by the Assets and Project Management Department.
- On March 08, 2022, the project website <a href="https://winnipeg.ca/stvitalbridge">https://winnipeg.ca/stvitalbridge</a> was launched, as part of the Stakeholder Engagement program, followed by three (3) virtual stakeholder meetings, on March 22 and 23, 2022.
- Public Art installation is a component of this project. In May and June 2022, a series of three
   (3) Public Art Stakeholder Working Group meetings took place, to come up with
   recommendations and prepare a summary package to document findings to be presented to
   the Winnipeg Arts Council (WAC) to help inform the Call to Artists.
- On June 09, 2022, the Standing Policy Committee on Infrastructure Renewal and Public Works, and subsequently Council itself, on June 23, 2022, approved a first charge on the 2023 Capital Budget in the amount of \$15,600,000 for the St. Vital Bridge Rehabilitation Project.
- On August 23, 2022, Morrison Hershfield Limited was awarded consulting services for detailed design for the Project.
- Temporary cross-over detours were constructed between the north and southbound lanes of Route 62 in October 2022 in order to maintain traffic flow during the project.
- Detailed Design (Drawings and Specifications) were completed in November 2022.
- Tender documents were posted on MERX in late early December 2022.
- The Tender closing date is currently set at January 19, 2023.
- Tender for the project closed on January 20, 2023. Upon continuing observation of the market conditions, a major item of Work, structures coatings, was removed from the original contract, in order to stay under the budget cap.
- Subsequently, after the tender closed, Council approved an increase to the project as part of the 2023 budget process, where an additional \$5,000,000 was added to the project in 2024 with a first call on those funds approved for in 2023 due to revised estimates for roadway rehabilitation costs.
- The low bidder, M.D. Steele Construction Ltd. was successful and awarded Phase 1 of the Work. The project was being awarded in phases as it was necessary to start Construction as soon as possible in order to stay on schedule, and the adoption of the 2023 budget did not occur prior to award.

- Construction on site commenced on March 01, 2023, on the East (Southbound Lanes) structure.
- Award of Phase 2 will follow in Mid-April 2023, as the 2023 Capital budget was approved in March 2023, which included a first charge of \$33,900,000 on the 2024 Capital budget allocated to the St. Vital bridge project.
- As such, the City is currently fielding quotes from various coatings suppliers to re-instate this
  item of Work into the scope, which once approved, will require an Over Expenditure report
  to Council, as the total delegated Award Authority of up to \$45,000,000 to the CAO will be
  exceeded.
- Substantial Performance for this Project is anticipated to be on October 31, 2024.
- Total Performance for this Project is anticipated to be June 30, 2025.

#### **Stakeholder Engagement/Communications**

- On March 08, 2022, the project website <a href="https://winnipeg.ca/stvitalbridge">https://winnipeg.ca/stvitalbridge</a> was launched, as part of the Stakeholder Engagement program. The website contained information such as the study timeline, frequently asked questions, a map of the project area, and a copy of the virtual presentation that was subsequently discussed at three (3) distinct stakeholder meetings.
- Stakeholder meetings took place on March 22 and 23, 2022, and included participants from neighbourhood community groups, schools, BIZs, and discipline-specific interest groups from throughout the City.
- Stakeholder input from those sessions was subsequently used to optimize and finalize the preliminary design.
- Public Art installation is a component of this project. A budget of approximately \$200,000 from the project funds has been allotted to the design and installation of public art in the project vicinity.
- In May and June 2022, a series of three (3) Public Art Stakeholder Working Group meetings took place, to come up with recommendations and prepare a summary package to document findings to be presented to the WAC to help inform the Call to Artists.
- The recommendations have been finalized in September 2022 and will be used as information for artists to prepare proposals for the design of the public art component.
- The project website will be updated in January 2023 to inform the public and stakeholders of design updates and anticipated construction schedule.
- It will subsequently be followed up by a single stakeholder meeting (January 2023) to directly inform the stakeholders of how their previous input and comments were considered in the completed design.
- The recommendations from the Public Art Stakeholder Working Group have been finalized in September 2022 and will be used as information for artists to prepare proposals for the design of the public art component in Q2 of 2023.
- A stakeholder meeting (January 31, 2023) was held to directly inform the stakeholders of the final design and how their previous input and comments were considered in the completed design.

- The project website was subsequently updated on February 02, 2023, to inform the public and stakeholders of design updates and anticipated construction schedule.
- The recommendations from the Public Art Stakeholder Working Group have been discussed with the Winnipeg Arts Council to plan the call for artists to prepare proposals for the design of the public art component in Q2 of 2023.