

**Green Line Report to  
Executive Committee  
2023 May 23**

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## **Green Line Board Report Q2 2023**

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### **RECOMMENDATION(S):**

That the Executive Committee:

1. Receive this report for the Corporate Record; and
2. Direct that Attachment 3 remain confidential pursuant to Sections 24 (Advice from officials), 25 (Disclosure harmful to economic and other interests of a public body), and 27 (Privileged information) of the *Freedom of Information and Protection of Privacy Act*, not to be released.

### **HIGHLIGHTS**

- The project remains on plan with the launch of the Development Phase, following the selection and announcement of Bow Transit Connectors (BTC) as the Development Partner in April 2023.
- Additionally, other procurement activities, real estate, and early construction works are continuing in preparation for the Development and Implementation Phases.
- **What does this mean to Calgarians?** The development partner milestone launches the Development Phase of the project that will see the design of the new LRT expansion progressed, and an agreement reached on detailed project costs, risks, and overall schedule between Green Line and Bow Transit Connectors (BTC). This phase of work will take approximately 16 months to complete. The Implementation Phase remains on track to begin in 2024.
- **Why does this matter?** This latest milestone, and other highlighted project activities, demonstrates progression towards the start of construction and ultimately realizing the benefits of the Green Line through greater mobility choices and improved travel times for Calgarians.

### **DISCUSSION**

The Green Line LRT Project is the largest infrastructure investment in Calgary's history with unprecedented contributions from Canada, the Province, and the City. The Green Line Board was established and delegated the authority to govern, oversee and ensure the successful delivery of the Project.

Quarterly reports from the Green Line Board to Executive Committee of Council are part of the efforts to keep Council and Calgarians informed on the progress and governance of the Green Line LRT Project and demonstrate the ongoing management of the Project by the Board, see Attachment 1 - Green Line Board Report Q1 2023 – EC2023-0067 for the most recent update.

The Green Line Board also publishes monthly progress reports that are available to members of Council and the public, see Attachment 2 - Green Line Board Progress Report March 2023. These monthly reports include updates on safety, construction, stakeholder relations, schedule, cost, and risk management.

### **Commercial**

Following a successful procurement, the Green Line Board approved the Development Phase Agreement and selected Bow Transit Connectors (BTC) as Green Line's Development Partner. BTC brings together Barnard Constructors of Canada, LP, Flatiron Constructors Canada Ltd,

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and WSP Canada Inc, along with their financial advisor EllisDon Capital Inc. Collectively they bring shared expertise in underground, above-ground structures, and LRT design and construction to deliver Phase 1 of the Green Line LRT Project.

Green Line also finalized the 78 Avenue Project tender package, and the RFP was issued on March 9, 2023. The RFP closed on April 20, 2023, and pending Board approval and successful negotiations with the proponent, a target contract award date is anticipated by the end of Q2 2023.

The Light Rail Vehicle (LRV) supplier Construcciones y Auxiliar de Ferrocarriles (CAF) finalized the procurement for the remaining major component subcontractors. This satisfies the CAF Supply Agreement for subcontract milestone.

### **Beltline Downtown Utility Relocation Project (BDURP)**

Enabling works to relocate deep and shallow utilities are underway to make way for construction of the Green Line tunnel and stations in the Downtown and Beltline.

To facilitate the installation of new stormwater and sanitary infrastructure, the intersection at 11 Avenue S.E. and Olympic Way was closed in March. Green Line continues to work to minimize construction impacts to the travelling public and coordinate construction activities with Calgary Municipal Land Corporation, the Calgary Stampede, Calgary Sports and Entertainment (CSEC), and the City's Mobility team to ensure that Calgarians are aware of the closure and detour. The intersection will remain closed through to June 2023.

Green Line is working closely with City colleagues on several initiatives to support businesses. This includes the City's Seasonal Patio Program with Green Line reviewing applications, identifying potential conflicts with BDURP construction, and ensuring that applicant businesses are informed about Green Line construction activities. Businesses who were granted seasonal patios in 2022, and who could potentially be impacted by BDURP construction activities in 2023 were identified and contacted to help inform their decision making for patio investments this year.

### **Real Estate**

An agreement in principle was reached with Harvard Developments to acquire the land for the future underground station at 2 Avenue S.W. Tenants of the current Eau Claire Market were informed at a joint information session with Green Line and Harvard Developments, prior to the public announcement. The Eau Claire Market will remain open until Q2 2024. This was a significant milestone for the project as this station is both the temporary terminus for Phase 1 and serves as the future connection between the north and south legs of Green Line.

### **Safety and Quality Management**

Safety remains a key focus as BDURP construction activity continues in the Beltline and Downtown areas. Green Line monitors safety compliance by Green Line staff, consultants, and contractors on construction sites. From January to March, six incidents occurred resulting in property damage with no injuries. The root causes of these incidents include incorrect utility locates, not following procedures, and physical condition of historical infrastructure. All incidents were investigated, and Green Line followed-up with the respective contractor or Third-Party Utility to identify and implement measures to address them moving forward.

Green Line continues to provide oversight for quality compliance of Enabling Works and LRV Supply projects. An audit plan was issued and has proceeded with one internal and one

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external audit initiated with reports expected to be issued in Q2 2023. LRV Production Testing and Oversight began in March to monitor fabrication and testing at the LRV Supplier's production facilities in Spain.

### **EXTERNAL ENGAGEMENT AND COMMUNICATION**

- |                                     |                                         |                                     |                                                     |
|-------------------------------------|-----------------------------------------|-------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/>            | Public engagement was undertaken        | <input checked="" type="checkbox"/> | Dialogue with interested parties was undertaken     |
| <input checked="" type="checkbox"/> | Public/interested parties were informed | <input type="checkbox"/>            | Public communication or engagement was not required |

Ongoing regular communications through Green Line newsletters and social media channels continue to provide timely project information to Calgarians and businesses. Social media engagement continues to grow, and our LinkedIn account has been very successful since its launch in October. It now has Green Line's largest audience at 2,358 followers, with Twitter in second at 2,300 followers. Enhancements were made to the Construction section of Green Line's website in February including an overview of construction in 2023, new maps showing construction impact zones, and improved navigation making the Construction Impacts and Notices page easier to find. There continues to be a large volume of web traffic each month with 32,000 page visits in Q1 seeing the Map, Construction, Future stages, Station details pages and various media announcements being the most viewed content.

On February 8, 2023, the City of Calgary's Accessibility / Access Design Committee visited the LRV mock-up at the Anderson Garage and reviewed the LRV design in an interactive session.

Direct outreach to Downtown and Beltline adjacent businesses and landowners about early works construction also continued. In March, Green Line met with 25 representatives from Downtown property management companies to provide a project update and details on upcoming BDURP construction activity.

In addition to the 27 construction notices sent to more than 121 stakeholders in Beltline and Downtown from January – March; there have been more than 600 calls, meetings, and on-site visits; 77 key stakeholder/partner meetings; and 3 information sessions.

### **IMPLICATIONS**

#### **Social**

This report, and the Green Line project, aligns to Council's Citizen Priority: A city that moves. The Green Line LRT will improve mobility choices by providing a high-quality transit service that is fast, frequent, and reliable; enhance connectivity between people and places including connections to communities, employment hubs and key destinations across the city; and provide flexible capacity for a growing region.

As the city's population grows, so will the demands on our transportation network. On opening day, Phase 1 will connect Calgarians to 190,000 jobs within walking distance of Green Line stations and will provide transit options for 70,000 people living within a 10-minute walk of the Green Line.

#### **Environmental**

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The Green Line LRT will allow Calgary's transportation network to move more people, emit fewer greenhouse gasses and use less energy and resources than we do today. Phase 1 of the project will reduce greenhouse gas emissions by over 25,000 tonnes. And within the first year of service, will shift 4,800,000 net new transit trips from automobiles.

### **Economic**

As the largest infrastructure investment in Calgary's history, the Green Line is contributing to the city's economic recovery and resiliency, generating \$2.2B in long-term city-shaping benefits and more than \$6B in property value uplift by 2040. Constructing Phase 1 will create over 20,000 jobs and our more than \$250M early works construction program has over 100 projects already completed or underway, putting Calgarians to work today.

In addition to early works construction, BTC will be confirming their subcontractor team. Their subcontracting strategy is expected to benefit local construction contracting and equipment sales and services businesses, many of whom will work with us through both the Development and Implementation Phases.

### **Service and Financial Implications**

#### **No anticipated financial impact**

Financial Summary as of March 31, 2023

<b>Category</b>	<b>Committed Cost</b>	<b>Cost to Date</b>	<b>Cost Year to Date</b>
Owner's Cost	\$84,538,702	\$84,060,232	\$4,094,114
Design & Engineering	\$296,928,260	\$278,506,342	\$10,007,107
Construction, Land & Other Assets	\$541,367,826	\$471,496,719	\$15,733,796
Bus Rapid Transit	\$4,646,940	\$4,645,783	\$2,487
<b>Grand Total</b>	<b>\$927,481,728</b>	<b>\$838,709,076</b>	<b>\$29,837,504</b>

The Green Line Board has a mandate to deliver the Green Line LRT Project in alignment with 2020 Council direction and within the committed funds. The Board continues to work on behalf of Calgarians and all funding partners to balance the costs and risks with the long-term city-shaping benefits.

### **RISK**

Risk is continually monitored by the Green Line Board, on behalf of Calgarians and all funding partners. The Board relies on the experience and expertise of the Green Line leadership team to make recommendations and invests in ongoing independent, external due diligence to identify, evaluate, and validate information and assumptions.

The key risks and mitigations include:

- Green Line continues to monitor financial market changes due to the current economic climate. Regular external due diligence is ongoing to identify, evaluate and validate information and assumptions.
- Utility relocation works in Beltline and Downtown are ongoing in busy traffic corridors, which has a potential to significantly impact travelling public and pedestrians. Green Line

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continues to proactively engage and notify stakeholders of potential construction related impacts (e.g., road closures) and is working actively with City business units on a regular basis to optimize traffic control, lane closures, and assist with traffic management in Beltline and Downtown overall.

**ATTACHMENT(S)**

1. Green Line Board Report Q1 2023 – EC2023-0067
2. Green Line Board Progress Report March 2023
3. CONFIDENTIAL – Green Line Board Quarterly Land Report
4. Presentation – Green Line Board Report Q2 2023

Department Circulation

General Manager/Director	Department	Approve/Consult/Inform
Don Fairbairn	Green Line Board Chair	Approve
Darshpreet Bhatti	Chief Executive Officer, Green Line	Approve