

NO: R167

COUNCIL DATE: September 16, 2019

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## REGULAR COUNCIL

TO: **Mayor & Council**

DATE: **September 11, 2019**

FROM: **Acting General Manager, Engineering**

FILE: **1718-014/H**

SUBJECT: **BC Hydro Infrastructure Relocation for the 192 Street Widening Between  
32 Avenue and 40 Avenue**

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## RECOMMENDATION

The Engineering Department recommends that Council:

1. Approve the expenditure of \$564,377.20 (including GST), payable to BC Hydro for the relocation of BC Hydro distribution infrastructure on 192 Street between 32 Avenue and 40 Avenue;
2. Set the expenditure authorization limit for the relocation of BC Hydro infrastructure on 192 Street between 32 Avenue and 40 Avenue at \$620,000 (including GST and contingency); and
3. Authorize the General Manager, Engineering to execute a Purchase Order and release payments to BC Hydro in the amount of \$620,000 (including GST and contingency) for the relocation of BC Hydro infrastructure on 192 Street between 32 Avenue and 40 Avenue.

## INTENT

The purpose of this report is to provide an overview to Council and to obtain approval for the payment for the relocation of BC Hydro infrastructure on 192 Street between 32 Avenue and 40 Avenue in order to complete road widening works at this location.

## BACKGROUND

At its Regular Meeting of July 8, 2019, Council approved the 192 Street widening project, as part of Corporate Report No. R139; 2019 attached to this report as Appendix "I". As part of this construction contract, the City's contractor is installing infrastructure to support the relocation of BC Hydro infrastructure along 192 Street between 32 Avenue and 40 Avenue, as illustrated on the map attached to this report as Appendix "II". As a coordinated effort, BC Hydro is installing additional underground ducts, at their expense, to support the infrastructure relocation work and future system expansion by BC Hydro.

The roadwork Contract No. 1718-014-11, 192 Street Widening from 32 Avenue to 40 Avenue (Phase 2), is currently underway and is anticipated to be completed in November 2019.

In July 2019, BC Hydro estimated that their cost to complete the coordinated infrastructure relocation work is \$1,104,291.30 (including GST). BC Hydro is contributing \$539,914.10 of the total amount, including costs for additional ducting to accommodate expansion, 50% labour cost-share contribution for the City's initiated relocation works, and credit for underground ducting being completed by the City. The net result is a remaining cost of \$564,377.20 (including GST) to the City.

Staff have confirmed that the amount quoted for this work is consistent with the costs associated on other capital projects that have required the relocation of BC Hydro infrastructure. Furthermore, in a continued effort to reduce construction duration and costs, the City has requested BC Hydro evaluate opportunities to reduce the cost and schedule associated with this work.

## **SUSTAINABILITY CONSIDERATIONS**

Relocation of the BC Hydro infrastructure supports the objectives of the City's Sustainability Charter 2.0. In particular, this work relates to the Sustainability Charter 2.0 theme of Infrastructure. Specifically, this work supports the following Desired Outcomes ("DO"):

- All Infrastructure DO1: City facilities and infrastructure systems are well managed, adaptable and long lasting, and are effectively integrated into regional systems; and
- Transportation DO14: Goods movement throughout the city is efficient, and minimizes environmental and community impacts.

## **FUNDING**

Funding for this purchase order is available in the approved 2019 Transportation Budget.

## **CONCLUSION**

In order to complete the widening of 192 Street from 32 Avenue to 40 Avenue, it is required that BC Hydro infrastructure along the corridor be relocated. The City is working cooperatively with BC Hydro to relocate this infrastructure in order to complete the road widening works and install additional underground ducts, at BC Hydro's expense, to support the infrastructure relocation work and future system expansion by BC Hydro.

Scott Neuman, P.Eng.,  
Acting General Manager, Engineering

SBN/JA/VJ/GKC/cc

Appendix "I" – Corporate Report No. R139; 2019  
Appendix "II" – Map of Locations - BC Hydro Infrastructure

NO: **R139**

COUNCIL DATE: **July 9, 2019**

**REGULAR COUNCIL**

TO: **Mayor & Council**

DATE: **July 3, 2019**

FROM: **Acting General Manager, Engineering**

FILE: **1718-014/11**

SUBJECT: **Award of Contract No. 1718-014-11  
192 Street Widening from 32 Avenue to 40 Avenue (Phase 2)**

**RECOMMENDATION**

The Engineering Department recommends that Council:

1. Award Contract No. 1718-014-11 to Tybo Contracting Ltd. in the amount of \$10,374,000.00 (including GST) for the widening of 192 Street from 32 Avenue to 40 Avenue; and
2. Set the expenditure authorization limit for Contract No. 1718-014-11 at \$11,411,500.00 (including GST and contingency).

**SCOPE OF WORK**

This Contract represents Phase 2 of a three-phased program of widening on 192 Street from 16 Avenue to Colebrook Road. Currently, 192 Street is being widened from 40 Avenue north to Colebrook Road (Phase 1). The widening of 192 Street from 16 Avenue to 32 Avenue (Phase 3) has yet to be scheduled.

The construction package related to this Contract consists of road widening along 192 Street from 32 Avenue to 40 Avenue and the installation of a storm system and water main. As well, to improve access and circulation in the area, a new traffic signal is proposed at 192 Street and 36 Avenue. The project locations are listed on the following table and are also illustrated on the map attached to this report as Appendix "I".

Map Reference Number	Project #	Project Description	Location
1	R-10584	Widening from 2 lanes to 4 lanes with median, left-turn bays, cycle tracks, multi-use paths and lighting	192 Street: 32 Avenue to 36 Avenue
2	R-10583	Widening from 2 lanes to 3 lanes with two-way left-turn lanes, left-turn bays, bike lanes, sidewalks and lighting	192 Street: 36 Avenue to 40 Avenue
3	R-14293	New Traffic Signal	192 Street and 36 Avenue
4	D-8036	Drainage	192 Street: 32 Avenue to 40 Avenue
5	W-10559	Water Main	32 Avenue: 192 Street to 194 Street

Phase 1 of the 192 Street widening between 40 Avenue and Colebrook Road was estimated to take 250 working days to complete, assuming that 192 Street was to remain open to all traffic during construction. As part of the Phase 1 tender, contractors were asked to advise of the time and cost savings to the City should they be permitted to work 24-hours a day, 7-days a week. The low bidder indicated that if they were permitted to work 24-hours a day, 7-days a week, they would be able to provide a financial savings of \$19,429.00 and time savings of 66 working days.

While the City did not proceed with the 24-hours a day, 7-days a week working option, the City did permit the low bidder to close 192 Street from 40 Avenue to 48 Avenue to non-local traffic as the single-lane alternating traffic through the construction zone was resulting in significant traffic congestion along 192 Street. As a result of this closure, the low bidder has been able to make substantial progress on the work, and it is expected that they will complete Phase 1 in 90 working days, which is 160 working days, or 64%, less than originally estimated with keeping 192 Street open to all traffic. Furthermore, it will be 94 working days, or 51% less, than the low bidder estimated it would taken had they been permitted to work 24-hours a day, 7-days a week while keeping 192 Street open to all traffic.

The reduction in working days will also result in a savings for construction inspection and administration services. While the Phase 1 Engineer has had to provide additional inspection staff to monitor and inspect the work being completed at multiple locations, it is estimated that the cost for construction inspection and administration services will be approximately \$80,000, or 27% less, as compared to the cost for construction inspection and administration services had the work been completed with 192 Street remaining open to all traffic during construction.

Given the accelerated completion of Phase 1 as a result of the temporary road closure, the tender for Phase 2 included a temporary road closure along 192 Street for the duration of the Phase 2 contract. Based on the production rate observed during Phase 1, the Phase 2 tender also specified that the contractor will have 100 working days to complete the work. Subject to Council approval, the Contract work is expected to start in July 2019 and be completed by November 2019.

As a result of the temporary road closure, it is expected that both Phase 1 and Phase 2 will be completed approximately 60 working days before Phase 1 would have been completed had 192 Street remained open to all traffic during construction.

## TENDER RESULTS

Tenders for the subject Contract were opened on June 18, 2019 with the following results:

<i>Contractor</i>	<i>Tendered Amount with GST</i>	<i>Corrected Amount</i>
1. Tybo Contracting Ltd.	\$10,374,000.00	No Change
2. B & B Contracting (2012) Ltd.	\$10,548,600.00	No Change
3. Richco Contracting Ltd.	\$10,993,815.00	No Change
4. Crown Contracting Limited.	\$12,246,799.85	No Change

The Engineer's (McElhanney Consulting Ltd.) pre-tender estimate was \$10.3 million, including GST.

## EVALUATION

The City's consultant reviewed the tender submissions for accuracy and completeness. No errors were found. All submissions included the required 10% bid bond, were signed on the Tender Form, and were initialed on the Summary Sheet of the Schedule of Quantities and Prices.

The low bidder, Tybo Contracting Ltd., has provided a Consent of Surety for a Performance Bond and a Labour & Materials Bond, and agreed to complete the work within 100 working days, as stipulated in the Contract. Tybo Contracting Ltd.'s past performance on similar work has been satisfactory. They have no outstanding legal claims against the City. It is recommended that Tybo Contracting Ltd. be awarded Contract No. 1718-014-11.

## SUSTAINABILITY CONSIDERATIONS

The work of this Contract supports the objectives of the City's Sustainability Charter 2.0. In particular, this work relates to the Sustainability Charter 2.0 theme of Infrastructure. Specifically, this Contract supports the following Desired Outcomes ("DO"):

- All Infrastructure DO1: City facilities and infrastructure systems are well managed, adaptable and long lasting, and are effectively integrated into regional systems; and
- Transportation DO14: Goods movement throughout the city is efficient, and minimizes environmental and community impacts.

## FUNDING

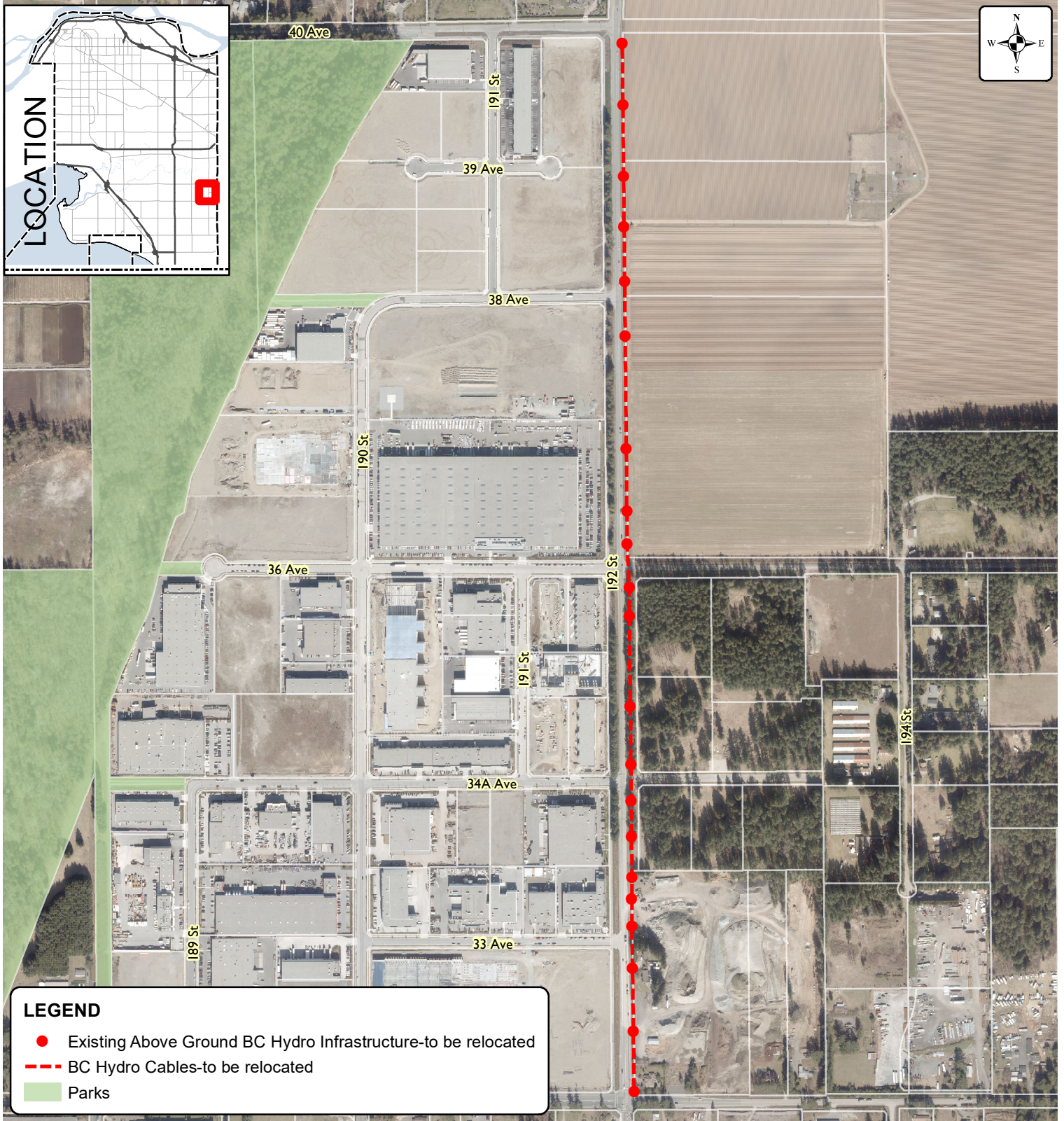
Funding for this Contract is available in the approved 2019 Transportation and Utilities Budget.



Jaime Boan, P.Eng.  
Acting General Manager, Engineering

JA/VJ/GKC/cc

Appendix "I" - Map of Locations – Contract No. 1718-014-11



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Scale: 1:8,000 0 80 M



## BC Hydro Infrastructure 192 Street: 32 Avenue to 40 Avenue

ENGINEERING  
DEPARTMENT