

NO: R139

COUNCIL DATE: July 8, 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.

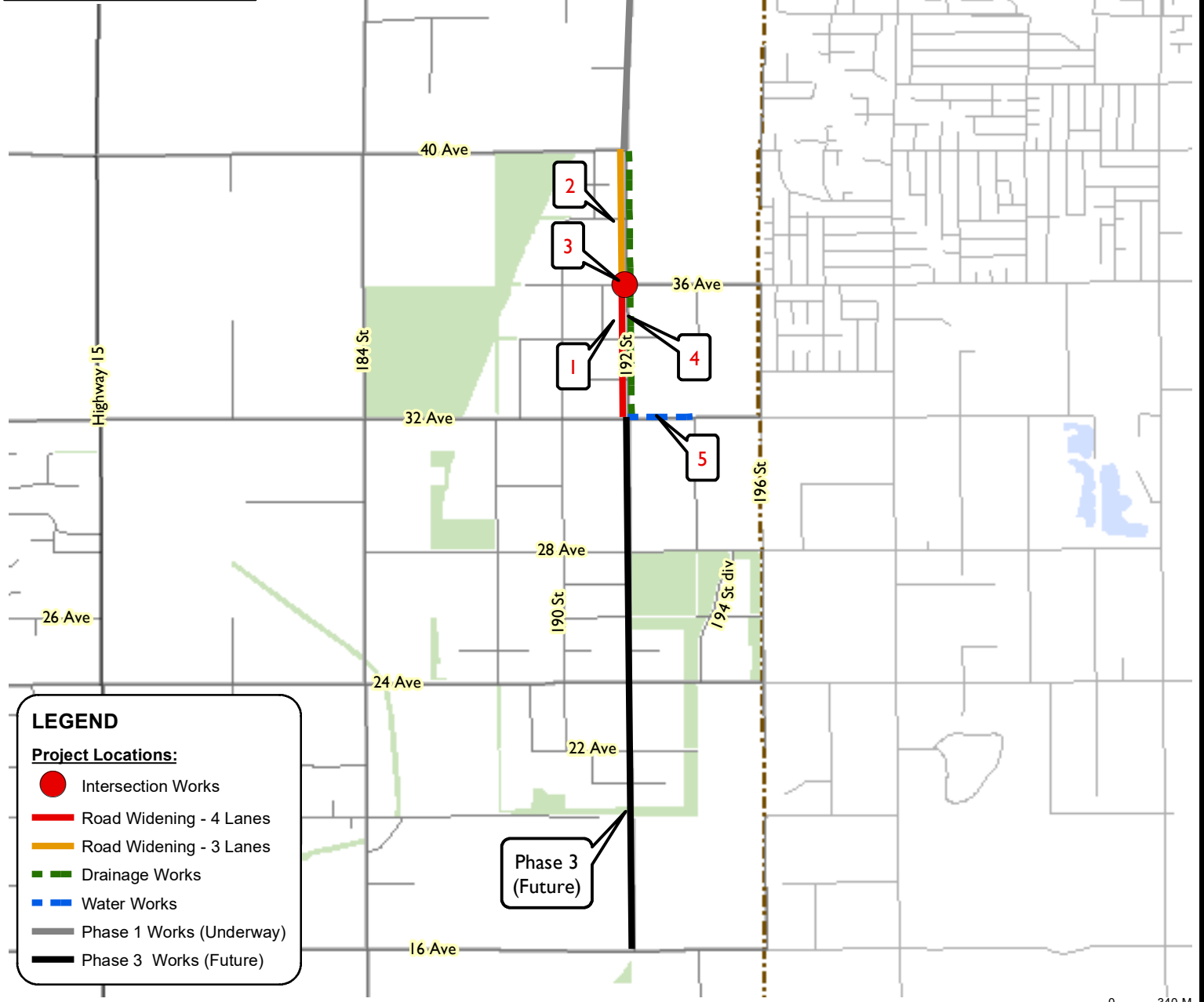
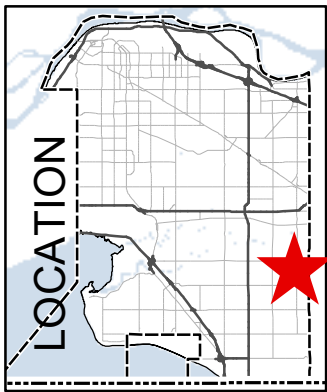
FUNDING

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



LEGEND

Project Locations:

- Intersection Works
- Road Widening - 4 Lanes
- Road Widening - 3 Lanes
- Drainage Works
- Water Works
- Phase 1 Works (Underway)
- Phase 3 Works (Future)

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Scale: 1:36,000 0 340 M



CONTRACT No. 1718-014-11 192 Street Widening from 32 Avenue to 40 Avenue

ENGINEERING
DEPARTMENT

The data provided is compiled from various sources and IS NOT warranted as to its accuracy or sufficiency by the City of Surrey. This information is provided for information and convenience purposes only. Lot sizes, Legal descriptions and encumbrances must be confirmed at the Land Title Office.