

NO: R028

COUNCIL DATE: FEBRUARY 8, 2021

REGULAR COUNCIL

TO: **Mayor & Council** DATE: **February 3, 2021**

FROM: **General Manager, Engineering** FILE: **6020-005/03**

SUBJECT: **Award of Contract No. 6020-005 D3
Design of the 152 Street Widening between the Nicomekl and Serpentine River
(DMAF)**

RECOMMENDATION

The Engineering Department recommends that Council:

1. Award Consultant Design Agreement No. 6020-005 D3 to McElhanney Ltd. at an estimated fee limit of \$347,975.25 (including GST) for the design of the 152 Street Widening between Nicomekl and Serpentine River;
2. Set the expenditure authorization limit for Consultant Design Agreement No. 6020-006 D3 at \$385,000.00(including contingencies and GST);
3. Authorize the General Manager, Engineering to execute Consultant Design Agreement No. 6020-006 D3;
4. Authorize the inclusion in the Consultant Design Agreement an option in favour of the City to retain McElhanney Ltd. to provide engineering services for the optional construction services of the 152 Street Widening between Nicomekl and Serpentine River at an estimated fee limit of \$521,090.85 (including contingencies and GST); and
5. Authorize the General Manager, Engineering to award and execute a Consultant Construction Agreement with McElhanney Ltd., should the optional construction services to retain McElhanney Ltd. be undertaken.

INTENT

The intent of this report is to seek Council's approval to award Consultant Design Agreement No. 6020-005 D3 for engineering services for the detailed design of the 152 Street Widening between Nicomekl and Serpentine River, as illustrated on the map attached to this report as Appendix "I".

BACKGROUND

152 Street has regional significance, as it is part of the regional Major Road Network and provides a critical link for Surrey linking North Surrey to South Surrey. Given the significance of this corridor, the widening of 152 Street between the Nicomekl and Serpentine Rivers and the twinning of the 152 Street and Nicomekl Bridge are projects identified within the Engineering Departments 10-Year Servicing Plan. Traffic volumes along this section of 152 Street is approximately 22,000 Annual Average Daily Traffic, which exceeds the arterial road threshold for a four-lane road. Currently, this segment of 152 Street is a two-lane road with no facilities for walking or cycling.

Furthermore, 152 Street is in the coastal floodplain. Studies have demonstrated that this segment of 152 Street is at risk for flooding. A significant flood along this road, and the overall coastal floodplain, would have major economic impacts, restrict the region's ability to respond to emergencies, and affect essential traffic flow. As a result, this project is also part of the Disaster Mitigation and Adaptation Fund ("DMAF") program to implement the City's Coastal Flood Adaptation Strategy.

This Contract focuses on the detail design for the 152 Street road widening between the Nicomekl and Serpentine Rivers. Design for the twinning of the 152 Street and Nicomekl River Bridge will commence in the Spring under a separate contract.

SCOPE OF WORK

Work within this design contract involves engineering services for the detail design of the 152 Street road widening between the Nicomekl and Serpentine Rivers.

The 152 Street widening project will accommodate higher traffic volumes, different modes of transportation, and will secure a functional north-south connection in Surrey in the event of a major flood. The improvements along 152 Street between the Serpentine and Nicomekl Rivers will generally consist of the following:

- Additional northbound and southbound travel lanes to accommodate traffic growth and ease congestion;
- Additional two-way left-turn lane to improve access and circulation to agricultural properties;
- Multi-use pathway to support alternative modes of transportation; and
- Flood protection measures to allow the road to function as a north-south connection in the event of a major flood.

These improvements will serve to reduce congestion and delays, along with meeting growing capacity needs and providing multi-modal infrastructure for all road users.

At this time, a Contract will be awarded for the detail design with the option to award construction services upon successful completion of the design phase. The design phase involves overall project management, geotechnical design, road design, environmental permitting, and tendering services, while the construction phase includes contract administration, inspection, and post construction services.

The design work is expected to start February 2021 and be completed by late November 2021. Construction of this project may commence as early as 2022, subject to Council approval of funding and should the necessary environmental permits and property acquisitions be secured. Construction would then be anticipated to be completed by 2024.

The total capital value of the project is estimated to be \$19 million.

EVALUATION

The City invited four pre-qualified engineering consultants to respond to a Request for Proposals:

- Aplin & Martin Ltd.;
- ISL Engineering Services Ltd.;
- McElhanney Ltd. (“McElhanney”); and
- SNC Lavalin.

The proposals were evaluated using the following criteria:

- Understanding of the assignment;
- Experience relative to the assignment;
- Strength of the project manager and project team;
- Work plan and schedule; and
- Financial considerations.

The four submissions received were carefully reviewed for accuracy and completeness by a panel of four staff members, following a structured and standard evaluation process.

McElhanney’s proposal demonstrated a thorough understanding of the scope of work and a strong proposed work plan. Furthermore, McElhanney have put forth a team with considerable experience related to similar work. Their total engineering fee is competitive, is considered reasonable for this type of engineering assignment, and represents the best value for the City. Staff therefore recommend that this assignment be awarded to McElhanney.

SUSTAINABILITY CONSIDERATIONS

The approval of the Agreement supports the objectives of the City’s Sustainability Charter 2.0. In particular, this work relates to the Sustainability Charter 2.0 themes of Built Environment and Neighbourhoods, and Infrastructure. Specifically, this agreement supports the following Desired Outcomes (“DO”):

- Neighbourhoods and Urban Design DO2: Surrey is well-connected within the city and to the rest of the region by fast and efficient public transit and active all-ages-and-abilities transportation infrastructure; and
- Transportation DO11: An integrated and multi-modal transportation network offers affordable, convenient, accessible and safe transportation choices within the community and to regional destinations.

FUNDING

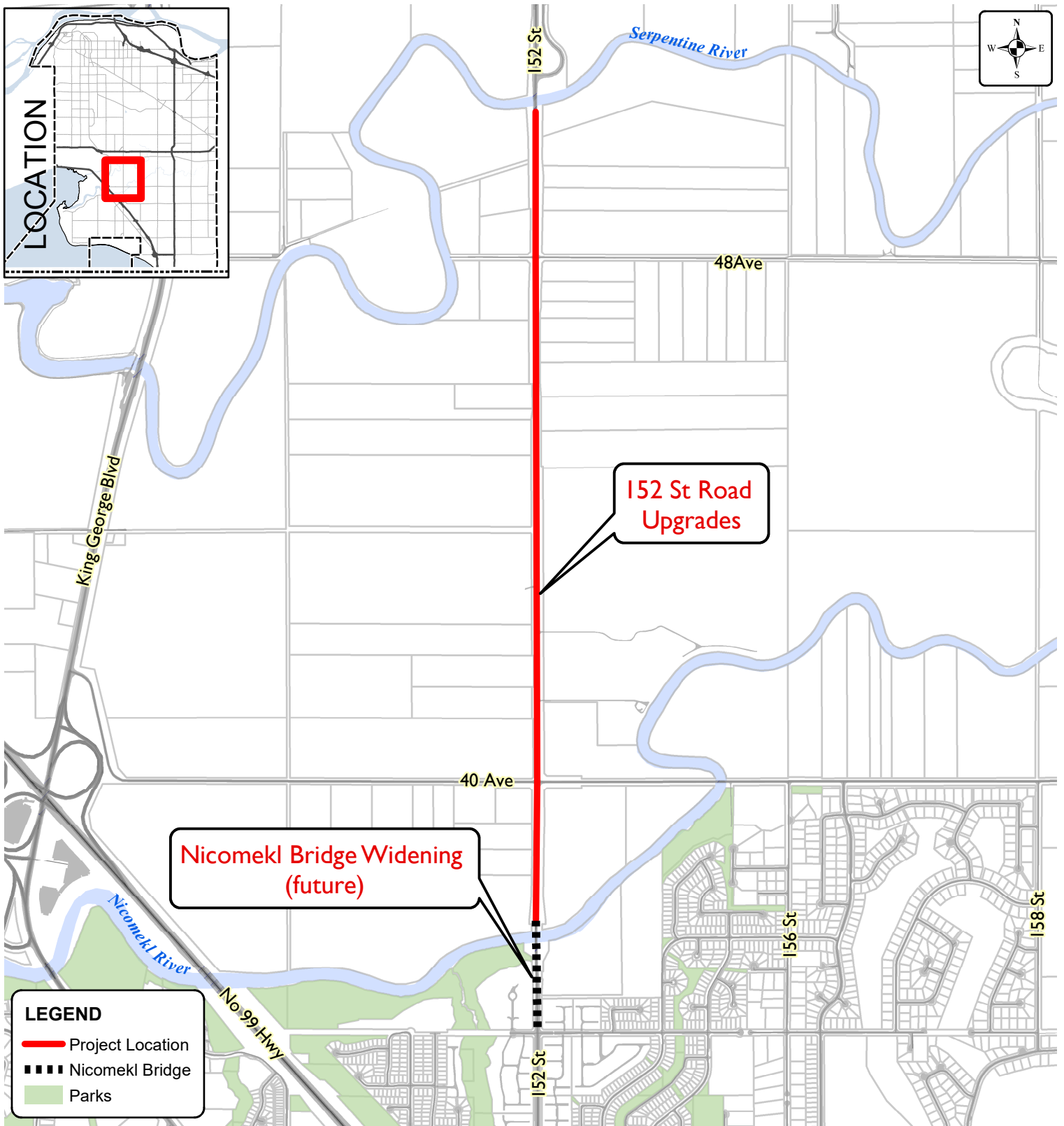
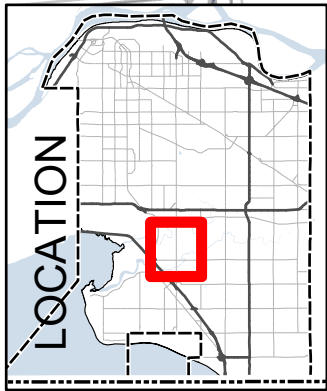
Funding for the design services is jointly funded by the City, TransLink, and the Federal Government under the DMAF agreement. Funding for the City's portion of the design is committed as part of the 2021 Transportation Budget.

Scott Neuman, P.Eng.
General Manager, Engineering

VJ/NC/cc

Appendix "I" –Map of Project Location – Contract No. 6020-005 D3

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LEGEND

- Project Location
- Nicomekl Bridge
- Parks

Produced by GIS Section: 04-Feb-2021, JJR

Scale: 1:17,000



CONTRACT No. 6020-005 D3
DMAF 152 Street Road Upgrades

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.