

NO: R221

COUNCIL DATE: November 4, 2024

REGULAR COUNCIL

TO: **Mayor & Council** DATE: **October 30, 2024**
 FROM: **General Manager, Engineering** FILE: **1725-004/01**
 SUBJECT: **Award of Consultant Agreement No. 1725-004-1
Campbell Heights Road Improvements**

RECOMMENDATIONS

The Engineering Department recommends that Council:

1. Award Consultant Agreement No. 1725-004-1 to Aplin & Martin Consultants Ltd. in the amount of \$1,169,778.75 (including GST) for engineering services related to the Campbell Heights Road Improvements package;
2. Set the expenditure authorization limit for Consultant Agreement No. 1725-004-1 at \$1,280,000.00 (including contingencies and GST); and
3. Authorize the General Manager, Engineering to execute Contract No. 1725-004-1;

INTENT

The intent of this report is to seek Council’s approval to award Consultant Agreement No. 1725-004-1 for engineering design and construction services for the Campbell Heights Road Improvements package, as illustrated on the map attached to this report as Appendix “1”, and as detailed below in the following table:

Map Reference Number	Project #	Project Description	Location
1	10615	Arterial 4 Lane Widening	16 Avenue: 19000 blk to 192 Street
2	10595/12018/ 16748/10588	Arterial 4-Lane Widening	192 Street: 16 Avenue to 28 Avenue
3	10591/10590	Arterial 4 Lane Widening	24 Avenue: 188 Street to 192 Street
4	14281	Collector Road Upgrades	28 Avenue: 192 Street to 194 Street
5	10589	Arterial 4 Lane Widening	32 Avenue: 192 Street to 19400 Blk

BACKGROUND

On July 22, 2024, Council approved, through Corporate Report No. R148; 2024 attached to this report as Appendix “II”, the strategic transportation short-term projects which identified and prioritized developing specific transportation projects to support the City’s growth. A number of arterial and collector roads within Campbell Heights are identified for such road expansion.

DISCUSSION

Scope of Work

Work within this consultant agreement includes detailed design services along with construction administration and inspection services required during construction of this project, subject to Council approval of a construction contract award in the future. The roadwork includes widening the road corridors to include additional travel lanes, improved traffic movements at intersections, and integrated cycling-walking facilities.

The total capital value of these projects is estimated to be \$29.5 million.

Tree Impact

The arterial widening of 192 Street between 16 Avenue and 20 Avenue is anticipated to require the removal of Bylaw size trees within the existing road corridor. During the project design, the City will develop a customized road design to narrow the road corridor in order to limit the impacts to existing trees located within the road corridor.

EVALUATION

The City invited three engineering consultants to respond to a Request for Proposals (“RFP”):

- Aplin & Martin Consultants Ltd.;
- McElhanney Ltd.; and
- R.F. Binnie & Associates Ltd.

The proposals were evaluated using the following criteria:

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

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

Aplin & Martin Consultants Ltd. proposal demonstrated a thorough understanding of the scope of work and a strong proposed work plan. Furthermore, Aplin & Martin Consultants Ltd. 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 best value for the City. Staff therefore recommend Agreement No. 1724-004-1 be awarded to Aplin & Martin Consultants Ltd.

Project Schedule

The design work is expected to start in November 2024 and be completed by Spring 2025. Construction will be delivered in multiple phases with tree clearing occurring in early 2025, followed by the first phase of construction beginning in summer 2025. Staff anticipate that the projects in this package could be completed by the end of 2026.

FUNDING

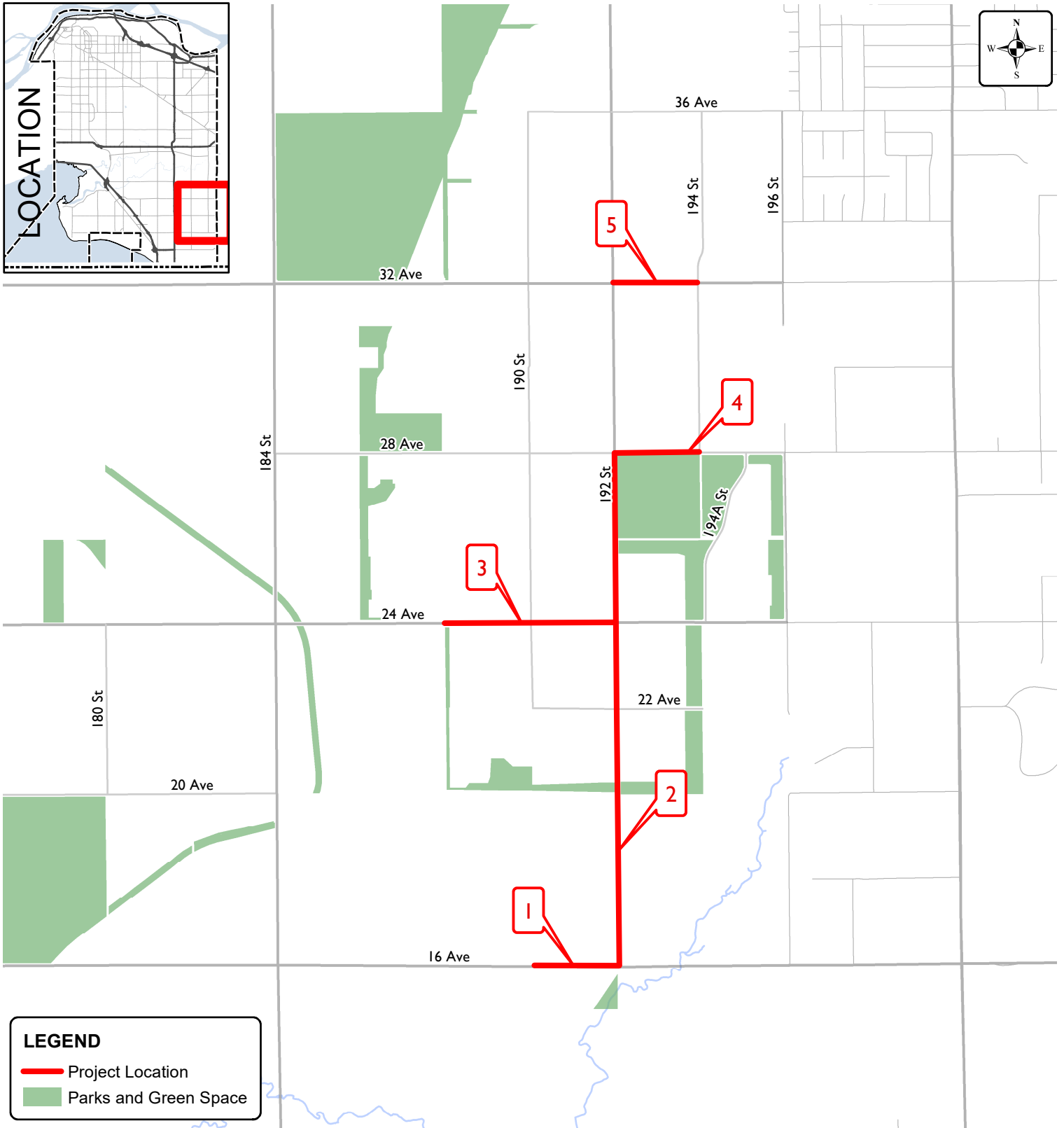
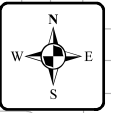
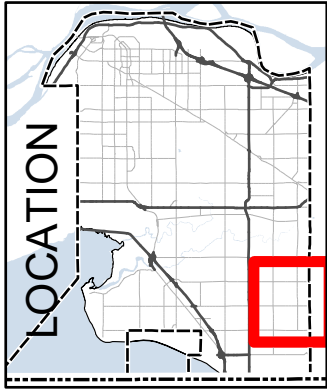
Funding for this agreement is available within the 2024 Transportation Budget.

Scott Neuman, P.Eng.
General Manager, Engineering

VJ/HL/bn

Appendix "I" – Map of Location – Contract No. 1725-004-1
Appendix "II" – Corporate Report No. R148;2024

[https://surreybc.sharepoint.com/sites/eng.administration/gm administration/corporate reports/2024/nov 4/award of contract 1725-004-1 campbell heights road improvements/award of contract 1725-004 - campbell heights road improvements \(10302024\) final.docx](https://surreybc.sharepoint.com/sites/eng.administration/gm%20administration/corporate%20reports/2024/nov%204/award%20of%20contract%201725-004-1%20campbell%20heights%20road%20improvements/award%20of%20contract%201725-004%20-%20campbell%20heights%20road%20improvements%20(10302024)%20final.docx)



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CONTRACT NO. 1725-004 Campbell Heights Road Improvements

ENGINEERING DEPARTMENT

NO: R148

COUNCIL DATE: July 22, 2024

REGULAR COUNCIL

TO: Mayor & Council

DATE: July 17, 2024

FROM: General Manager, Engineering

FILE: 5260-07

SUBJECT: Short-Term Transportation Priorities Update

RECOMMENDATION

The Engineering Department recommends that Council:

1. Receive this report as information; and
2. Endorse the proposed transportation short-term priorities, as described in this report.

INTENT

The intent of this report is to update Council on the status of the short-term transportation priorities that were approved by Council at the Regular Council Meeting on May 11, 2023, through Corporate Report No. R071; 2023 attached as Appendix "I", as well as to identify emerging priorities to support the City's continuous growth and development.

BACKGROUND

Over the past two years, Council has committed to advancing significant investment in transportation projects across the City to alleviate traffic congestion, support the growth within the City and provide residents with more transportation choices, such as improved access to transit.

These transportation investments can be achieved as a result of Council's approval of a 1% increase for the Road and Safety Levy, which was supported by Council each year over the past two years. Funding collected from the Road and Safety Levy is combined with Development Contribution Charges ("DCCs") to fund transportation investments, such as arterial road widenings, intersection improvements, road safety projects, pavement rehabilitation, and new cycling and sidewalk facilities.

Over the last year, the Engineering Department has effectively and successfully advanced over \$77 million in transportation capital investments across the City, which is one of the largest annual capital program in the past five years.

DISCUSSION

In 2023, Council confirmed the top transportation priorities across the City, including major arterial improvements, cycling connections, transit, and regional projects to work with the Ministry of Transportation and Infrastructure ("MoTI").

Major Arterial Improvements

The previously established short-term arterial road widening projects focused on delivering tender and construction of six key projects in 2024. The status of these projects, and the other short-term arterial road projects, is summarized in Appendix "II".

Engineering has delivered on five of the top six projects for 2024, which includes continued construction of 152 Street, as well as advanced construction of 148 Street improvements and the widening of 32 Avenue (Campbell Heights), 64 Avenue (Cloverdale) and 80 Avenue (Newton). Detailed design of 20 Avenue overpass, at Highway 99, and the associated realignment of Croydon Drive was completed; however, construction could not be advanced in 2024 as the City was unable to secure the required property.

In addition to advancing construction, staff have also advanced detailed design of multiple projects to be prepared for a 2025 construction, and fiscal schedule. The key upcoming construction projects for 2025 include trying to advance the 20 Avenue Overpass and the widening of 132 Street (Newton), 140 Street (Newton), last phase of 64 Avenue (Cloverdale), and 72 Avenue (Clayton).

In addition, staff and Council have identified emerging priorities for 2025 through 2027 construction to support the City's continuous growth and development, such as road expansions. The emerging priorities are as follows:

1. Newton Transportation Action Plan: The Focus Newton Task Force instructed staff to identify key transportation and network projects to alleviate congestion in Newton. After a thorough technical analysis, the widening of 76 Avenue (128 Street to King George Boulevard) and 132 Street (80 Avenue to 84 Avenue) have been added to the short-term priorities, as shown in Appendix "II", whereas the widening of 74 Avenue (King George to 138 Street) and the 80 Avenue road connection (King George to 138 Street) are future candidate projects for the long-term horizon.
2. Arterial & Collector Widening: To help improve transportation and keep up with DCC investment in growing communities, some of these emerging priorities include:
 - Completing of the last phases of 64 Avenue widening east of 152 Street;
 - Widening of 160 Street just north of Fraser Highway to interface with the Surrey-Langley SkyTrain ("SLS") Project;
 - 140 Street bridge replacement, for state of good repair, and associated widening of two segments of 140 Street to complete four-lane arterial between 80 Avenue and 100 Avenue. This will serve as a parallel corridor to King George Boulevard; and
 - Widening of 72 Avenue in East Clayton (188 Street to the 19300 Block), as development is complete, and the last western segment in Newton (144 Street to 152 Street).
3. Campbell Heights: Development within this area has continued rapidly over the past five years. The City has significant unspent area-specific DCC reserves, in relation to remaining development activity in Campbell Heights. Staff are advancing designs in Q4 2024 and construction of an estimated \$33 million in transportation infrastructure in Campbell Heights, focused on 192 Street (16 Avenue to 28 Avenue), 32 Avenue, 24 Avenue, and 16 Avenue (184 Street to 193 Street).

Cycling Connections

Staff are continuing the leverage internal and external funding contribution to deliver a connected and complete network for active transportation, these priority cycling connections are illustrated on the map attached as Appendix "III".

King George Boulevard Safe Mobility Project: The project is focused on enhancing walking along King George Boulevard between 105 Avenue and 108 Avenue making it safer and more welcoming by adding new letdowns, upgrading existing letdowns to current standards and improving pavement markings along the corridor. The combination of these improvements will clearly delineating pedestrian areas along the corridor.

North Surrey Protected Cycling Network: The development of a cycling network continues to evolve from City Centre. A cycling connection to Fleetwood was completed along Fraser Highway, and now the primary focus is cycling connections to Guildford. The projects are under design with construction concluding in 2025.

Pattullo Bridge Supportive Infrastructure: As part of TransLink's bridge replacement project, staff are working on addressing cycling gaps that will connect the new bridge to the existing Scott Road Greenway.

Transit Priorities

Staff continue working with TransLink to develop and deliver transit service improvements throughout the City, with key projects highlighted below.

R6 Scott Road: TransLink's Rapid Bus service has been in operation since January 2024 and has seen a successful increase of 22% in transit users, representing to approximately 6,000 additional boardings per day, compared to the previous 319-bus route along the corridor.

Surrey/South of Fraser Area Transit Plan: Staff are working in cooperation with TransLink on an update to the Surrey Transit Vision that was last updated in 2007. The new Surrey Transit Vision will define a long-range transit network required to service a one million population horizon, informing TransLink of the investment in rapid transit and bus services that are needed for Surrey and communities South of Fraser. The study will be completed by Q4 2025.

SLS Project: The Province is delivering a 16-km, eight station extension of SkyTrain through Surrey. This is a \$4 billion investment and will have significant ridership when it opens in 2029. Early works have commenced and guideway construction is anticipated to start in late 2024.

King George Boulevard Bus Rapid Transit ("BRT"): TransLink has announced that the Tier 1 BRT Corridors, including the King George Boulevard BRT, will be part of their 2025 Investment Plan. TransLink is leading the BRT design, with support from Surrey, which includes confirming the routing, service levels, hours of operation, terminus operation, as well as the corridor concept design. This will form part of TransLink's Investment Plan for Q2 2025 to secure funding for the construction of the project.

Regional Projects

The Ministry of Transportation and Infrastructure (“MOTI”) manages and maintains the Provincial highway network, with strategic connections within Surrey, that are crucial to the local and regional road network. The City had identified three key connections as priorities to improve vehicle and goods movement and serve the anticipated growth.

24 Avenue/Highway 99 Interchange Ramps: This project is the City’s highest priority for Provincial funding requests/contributions from MOTI. Staff are in the planning stages with concept design developed for this interchange, and seeking commitment for funding from the Province for April 1, 2025.

72 Avenue/Highway 15 Traffic Signal: Staff are working in conjunction with MOTI to finalize a new signalized connection to Highway 15 from 72 Avenue, as part of advanced design work for the new 72 Avenue road extension.

Pattullo Bridge – Six Lanes: Surrey has consistently advocated for six travel lanes on opening day. The Province has committed to consult with Surrey, New Westminster, and the Mayors’ Council to further study the bridge and regional network performance to consider expansion to the six-lane option; however, the Province has not provided a firm timeline nor funding for this work. The project has experienced delays, resulting with the new opening date of Fall 2025.

152 Street/Highway 99 Replacement and Ramp Improvements: Staff continue to advocate for this strategic regional connection to Highway 99 in South Surrey to support population growth and manage congestion. This project is lower in priority than the above three projects.

CONCLUSION

The City continues to make significant investment in transportation infrastructure, and this combined with the need for more Federal and Provincial investment in transit and regional connectivity, is required in the short-term to benefit residents and support growth across the City.



Scott Neuman, P.Eng.
General Manager, Engineering

RV/KS/cc

Appendices available upon request.

Appendix “I” – Corporate Report No. R071; 2023

Appendix “II” – Major Arterial Improvements

Appendix “III” – Cycling Connections