

From: "Mochrie, Paul" <Paul.Mochrie@vancouver.ca>

To: "[Direct to Mayor and Council - DL](#)"

Date: 12/16/2024 5:50:03 PM

Subject: ENG - Council Memo - RTS 16583 Report back on lighting and pedestrian crossings along Boundary Road

Attachments: ENG - Council Memo - RTS 16583 - Report back on lighting and pedestrian crossings along Boundary Road.pdf

Dear Mayor and Council,

Please see the attached Council Memo from Lon LaClaire regarding Report back on lighting and pedestrian crossings along Boundary Road. A short summary of the memo is as follows:

- In September 2024 Council directed staff to report back on options to improve lighting and pedestrian crossings along Boundary Road between 18th Avenue and 29th Avenue
- Staff evaluated existing lighting levels on the Vancouver-side of Boundary Road: mid-block lighting levels are generally in accordance with industry guidelines but intersection lighting levels, as is common across the city, could be improved
- There are currently no plans or budget to add additional poles and lighting; however, the existing high pressure sodium fixtures along Boundary road are expected to be replaced in 2025
- To increase pedestrian crossings, a new signalized crossing is planned at the intersection of Kincaid St and Boundary road that will improve access to bus stops on route 25

If you have any questions, please feel free to contact Lon LaClaire at 604-873-7336 or lon.laclaire@vancouver.ca.

Best,
Paul

Paul Mochrie (he/him)
City Manager
City of Vancouver
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The City of Vancouver acknowledges that it is situated on the unceded traditional territories of the x̱m̱ ḵ y̱ m̱ (Musqueam), S̱ wxw̱ú7mesh (Squamish), and s̱ lilw̱ ta̱ (Tsleil-Waututh) Nations.



ENGINEERING SERVICES
 Lon LaClaire, M.Eng., P.Eng.
 City Engineer/General Manager

MEMORANDUM

December 12, 2024

TO: Mayor and Council

CC: Paul Mochrie, City Manager
 Armin Amrolia, Deputy City Manager
 Karen Levitt, Deputy City Manager
 Sandra Singh, Deputy City Manager
 Katrina Leckovic, City Clerk
 Maria Pontikis, Chief Communications Officer, CEC
 Teresa Jong, Administration Services Manager, City Manager's Office
 Mellisa Morphy, Director of Policy, Mayor's Office
 Trevor Ford, Chief of Staff, Mayor's Office

FROM: Lon LaClaire
 General Manager, Engineering Services

SUBJECT: Report back on lighting and pedestrian crossings along Boundary Road

RTS #: 16583

On September 24, 2024, Council directed staff to report back on options for improving lighting along Boundary Road between 18th Avenue and 29th Avenue, as well as improving lighting at bus stops and increasing the number of pedestrian crossings.

Roadway and Bus Stop Lighting

In general, the City follows Illuminating Engineering Society ("IES") Guidelines when evaluating, upgrading or installing new roadway lighting – though it is not uncommon for roadway lighting to fall short of these guidelines due to a number of factors. These include the standards of the day at time of installation, lighting obstruction from trees, age and condition of existing lighting infrastructure or other site-specific constraints.

In response to Council's direction, staff evaluated existing lighting levels on the Vancouver-side of Boundary Road. Mid-block lighting levels for the roadway and sidewalks are generally in accordance with IES guidelines. Intersection lighting, however, is generally lower than the recommended levels due to the limited number of poles at each intersection. This condition is not unique to Boundary Road and can be found at various locations across the City. Funding for

lighting upgrades is constrained (the City's annual streetlighting budget for maintenance and infill lighting is \$2.8M) and staff prioritize upgrades to intersection lighting based on ICBC data and will also upgrade lighting opportunistically with capital projects and significant developments.

There are currently no plans or budget to add additional poles and lighting to intersections on the 18th to 29th Avenue section of Boundary Rd. Staff estimate the cost of bringing these intersections to IES standard to be approximately \$750,000. In addition to the intersection lighting noted above, staff have identified one bus stop at E22nd Avenue where lighting levels fall short of guidelines. The cost to upgrade this lighting is approximately \$35,000. This work is not currently planned or funded.

The City is currently in the process of replacing older high pressure sodium fixtures with more efficient LED fixtures across the City. As these replacements roll out, overall visibility and lighting uniformity (at both mid-block locations and at intersections) will be enhanced. Fixture replacement on Boundary Road is expected to be completed in 2025 (with Citywide LED replacement on track for 2028).

Increasing the number of pedestrian crossings:

With respect to increasing the number pedestrian crossings staff, working with the City of Burnaby and TransLink, have identified an opportunity for a new traffic signal at the intersection of Boundary Road and Kincaid Street. This signal will significantly reduce the distance between signalized crossings along this section of Boundary Road and will improve access bus stops on route 25. Currently, the distance between existing signals at E 22nd Avenue and E 29th Avenue is 680m; the new signal will be located 200m south of E 22nd Avenue, and 480m north of E 29th Avenue. The signal is also being added to reduce delay and improve safety for bus route 25 when making the southbound left-turn on Boundary Road.

TransLink is leading the design and delivery of the new signal that is anticipated to be installed in 2026. It will be funded through existing budgets in the 2023-2026 Capital Plan supported in the TransLink's Bus Speed & Reliability cost-sharing program.

Please contact me directly should you have any questions.



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