

City of Surrey PLANNING & DEVELOPMENT REPORT Application No.: 7923-0058-00

Planning Report Date: June 19, 2023

PROPOSAL:

• Development Variance Permit

to increase the maximum height of a free-standing antenna system from 12 metres to 14.9 metres, in order to replace an existing streetlight pole with a streetlight pole with antenna system extension.

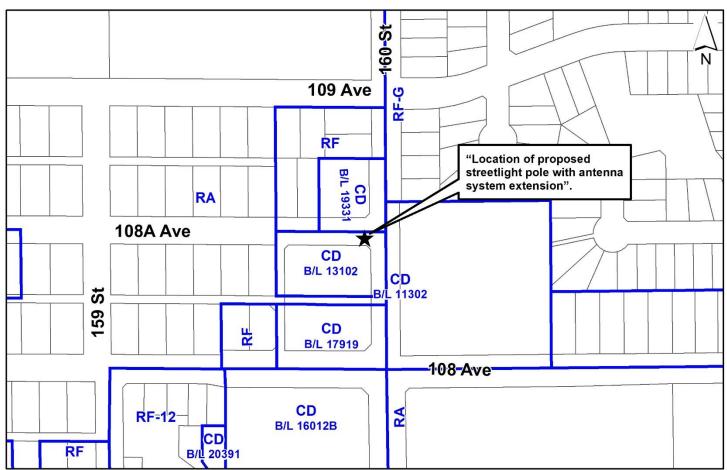
LOCATION: City Road Right-of-Way at

southwest corner of 160 Street and

108A Avenue

ZONING: CD(By-law No. 13102)

OCP DESIGNATION: Urban



RECOMMENDATION SUMMARY

• Approval for Development Variance Permit to proceed to Public Notification.

DEVIATION FROM PLANS, POLICIES OR REGULATIONS

Proposing to increase the maximum height for a free-standing antenna system under Part 4
General Provisions of the Zoning By-law.

RATIONALE OF RECOMMENDATION

- The proposal conforms to the criteria and best practices identified in the City's Antenna System Siting Policy (No. O-62).
- The proposal will result in minimal visual disruption in the area, as the proposed 14.9 metre streetlight pole with an antenna system extension will be replacing an existing 7.6 metre tall streetlight pole.
- The applicant has provided documentation which indicates that there is a demonstrated coverage gap in the area, which the wireless carriers would like to address to provide better service to existing and potential new customers.
- Staff have not received any objections from nearby residents to the proposal.

RECOMMENDATION

The Planning & Development Department recommends that Council approve Development Variance Permit No. 7923-0058-00 (Appendix I), to vary Part 4 General Provisions of the Zoning By-law to increase the maximum height of a free-standing antenna system from 12 metres to 14.9 metres, to proceed to Public Notification.

SITE CONTEXT & BACKGROUND

Direction	Existing Use	OCP Designation	Existing Zone		
Subject Site	City road right-of- way adjacent to a multi-unit commercial building.	Urban	CD (By-law No. 13102)		
North (Across 108A Avenue):	Parking lot and vacant single family lots.	Urban	CD (By-law No. 19331) and RF		
East (Across 160 Street):	Fraser Heights Village Centre shopping plaza.	Commercial	CD (By-law No. 11302)		
South:	Multi-unit commercial building.	Commercial and Urban	CD (By-law No. 17919)		
West:	Single family dwelling.	Urban	RA		

DEVELOPMENT PROPOSAL

Planning Considerations

- The proposed streetlight pole replacement with an antenna system extension is to be located on City road right-of-way adjacent to the property at 10833 - 160 street. This comprises a narrow piece of land immediately adjacent to the southwest corner of 108A Avenue and 160 Street. The site is designated as "Urban" in the Official Community Plan (OCP).
- The telecommunication company (Rogers Mobile) has an agreement with the City to site the equipment cabinet required for the antenna system approximately 2 metres to the south of the proposed antenna system across the existing sidewalk.
- The proposed antenna system will be atop a streetlight pole which is replacing an existing streetlight pole in the same location.

Referrals

The Engineering Department supports this proposal with no Engineering:

further comments.

POLICY & BY-LAW CONSIDERATIONS

- Staff have conveyed to telecommunication companies the importance of a comprehensive strategy to ensure adequate coverage for all carriers while minimizing the number of singular user installations. Staff have also emphasized the importance of keeping the height of installations to a minimum and not compromising existing policy guidelines, especially antenna systems either near or within residential areas, and to ensure that an appropriate design is being considered.
- Improving high speed wireless service supports the growing high technology sector, high-tech education, emergency services and broadens community consultation opportunities through social media.
- The proposed antenna system is required for current and future network capacity upgrades. This proposal will provide increased service to the surrounding area. Many residents and businesses use wireless service as their primary means of communication and have come to expect it to be an essential utility.
- The proposed free-standing antenna system supports the City of Surrey's vision for building a strong economy.

City's Antenna System Siting Policy

- On February 22, 2021, Council approved the City's Antenna System Siting Policy (No. O-62), which replaced Policy No. O-49 Telecommunication Towers. Policy No. O-62 was developed by City staff in coordination with industry representatives to ensure that development of antenna systems throughout Surrey meet the needs of residents and conform to telecommunication industry best practices. The policy provides parameters on how free-standing antenna systems should be sited and designed.
- The subject application generally complies with the current Antenna System Siting Policy No. O-62 and is therefore being presented for Council's consideration.
- The following is an evaluation of the current proposal in relation to applicable components of Policy No. O-62.

Location Preferences

• It is preferable that new antenna systems proposed on streetlights be sited along arterial and collector roads. These types of roadways are the preferred locations for poles that are taller than existing streetlight poles.

The applicant has proposed a streetlight pole replacement at the southwest corner of 108A Avenue and 160 Street, which is a collector roadway. The proposed streetlight pole with an antenna system extension will be 14.9 metres in height, replacing a 7.6-metre tall existing streetlight pole. As this antenna system will be sited along a collector roadway and within a commercial area, it is considered to be a preferred location.

Design Preferences

• The appropriate type of telecommunication Antenna Supporting Structure for each situation should be selected with the goal of making best efforts to blend with the nearby surroundings and minimize the visual aesthetic impacts of the Antenna System on the community. Antennas that extend above the top of a streetlight should appear to be a natural extension of the pole.

The applicant proposes a streetlight pole with an antenna system extension that will match the existing colour of the existing streetlight pole. The antenna system will have a circumference that aligns with the proposed streetlight pole to allow for what appears as a natural extension of the streetlight pole.

• Sight line considerations: poles and cabinets should consider stopping sight distance for posted speed limits on the roadway. Proposals are to follow the Transportation Association of Canada (TAC) guidelines for stopping sight distance requirements or as otherwise specified by the City Engineering Department.

The streetlight pole replacement will be at the same location as the existing pole. The proposed electrical equipment cabinet for the proposed antenna system will be located 2 metres to the south across the sidewalk.

Public Consultation Process

- In accordance with policy No. O-62, the applicant sent out 49 notification packages on April 20, 2023, to the nearby property owners and mailing addresses within a notification area of 45 metres, which is three times the height of the proposed antenna system which is required within policy No. O-62.
- The applicant and staff received a response from one (1) business owner expressing opposition to the proposal. Concerns are summarized as follows (staff comments in italics):
 - Prefer alternate locations such as rooftops or adjacent to highways or parks. Roger's can site elsewhere as other carriers are located on buildings at 16033 108 Avenue (across 160 Street to the east) and 10833 160 Street (immediately south).

(Both properties, listed above, have infrastructure from Freedom and Telus. Roger's has tried to site antennas on these properties with no success. Other streetlights were explored but the proposed site best met City Policy in regard to being located in a commercial area and along a collector road.)

- Negative property value due to the installation in front of property and could hinder the redevelopment of the property.
 - (The proposed installation falls outside the property on City road right-of-way and will not impact redevelopment of the property.)
- Signage associated with the installation will have a negative impact on the existing businesses in the area.
 - (No signage is proposed as part of the installation.)
- Privacy and security concerns from the antennas.
 - (The antenna system is being installed to enhance coverage. Rogers always follows Safety Code 6 for radio emissions.)
- What is Roger's expansion plans for additional antennas/capacity in the area?
 - (As demand for wireless services grow, the existing coverage gap will also grow unless an antenna is installed.)
- o Concerned about maintenance schedule on the proposed antenna system.
 - (Roger's will only need to access the site a few times a year for routine maintenance.)

Zoning By-law

- The applicant is requesting the following variance:
 - o to vary Part 4 General Provisions of the Zoning By-law to increase the maximum height of a free-standing antenna system from 12 metres to 14.9 metres.
- The proposed antenna system will have limited visual impact as it will be attached to the top of a replacement streetlight pole. The proposed location along a collector road and on Cityowned property is preferred under policy No. O-62.
- Staff support the requested variance to proceed for consideration.

INFORMATION ATTACHED TO THIS REPORT

The following information is attached to this Report:

Appendix I Development Variance Permit No. 7923-0056-00 (includes Site Plan, Elevations

and Perspective)

approved by Ron Gill

Don Luymes General Manager

Planning and Development

JS/ar

(the "City")

DEVELOPMENT VARIANCE PERMIT

NO.: 7923-0058-00

Issued To: City of Surrey

(the Owner)

Address of Owner: 13450 - 104 Avenue

Surrey, BC V₃T ₁V8

- 1. This development variance permit is issued subject to compliance by the Owner with all statutes, by-laws, orders, regulations or agreements, except as specifically varied by this development variance permit.
- 2. This development variance permit applies to that real property including land with or without improvements located within the City of Surrey, with the legal description and civic address as follows:

Parcel Identifier:

City of Surrey light pole # 159-12 located within the south side of 108A Avenue road allowance directly west of 160 Street

(the "Land")

- 3. Surrey Zoning By-law, 1993, No. 12000, as amended is varied as follows:
 - (a) In Sub-section A.1(a)ii.b. of Part 4 General Provisions, in the case of Antenna Systems that are free-standing (affixed directly onto the ground, rather than on a building) the height is increased from 12 metres to 14.9 metres.
- 4. The siting of buildings and structures shall be in accordance with the drawings numbered 7923-0058-00(A) through to and including 7923-0058-00(E) (the "Drawings") which are attached hereto and form part of this development variance permit.
- 5. This development variance permit applies to only the <u>that portion of the buildings and structures on the Land</u> shown on Schedule A which is attached hereto and forms part of this development variance permit. This development variance permit does not apply to additions to, or replacement of, any of the existing buildings shown on attached Schedule A, which is attached hereto and forms part of this development variance permit.

6.	The Land shall be developed strictly in accordance with the terms and conditions and provisions of this development variance permit.							
7.	This development variance permit shall lapse if the Owner does not substantially start any construction with respect to which this development variance permit is issued, within two (2) years after the date this development variance permit is issued.							
8.	The terms of this development variance permit or any amendment to it, are binding on all persons who acquire an interest in the Land.							
9.	This development variance permit is not a building permit.							
AUTH(ORIZING RESOLUTION PASSED BY THE COUNCIL, THE DAY OF , 20 . D THIS DAY OF , 20 .							
	Mayor – Brenda Locke							
	City Clerk – Jennifer Ficocelli							





Schedule A

7923-0058-00(A)

SITE NAME: FRASER HEIGHTS CENTRE

SITE ID: W4900

LOCATION: 160 ST AND 108A AVE

SURREY, BC

SITE TYPE: LIGHT POLE EXTENSION WITH

EQUIPMENT ON GRADE

DRAWING LIST: \$101 TITLE PAGE

S203 CELLULAR LOADING SPECIFICATIONS

S301 SITE PLAN

S302 PARTIAL SITE PLAN

S401 NORTH AND EAST ELEVATIONS

ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE

> 2022.07.15 CLIENT REVIEW No.: Description: EGBC Permit To Practice: 1003171 Revisions: W4900 Sheet Title: Date: JUL 2022 Drawing: GS · Sayers FRASER HEIGHTS CENTRE TITLE PAGE ENGINEERING LTD. Scale: S101 160 ST AND 108A AVE, SURREY, BC Drawn: RS 1661 West 5th Avenue Vancouver, BC V6J 1N5 ROGERS Checked: GF F: 604 734 8842 www.glotmansimpson. Project: 222279

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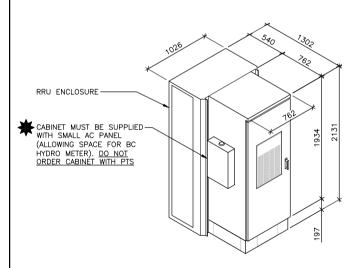
ANTENNA TABLE												
ANT.		ANTENNA ID		ANTENNA				MET (*)		JUMPER/	No. OF	
POS. No.	TECHNOLOGY	LABEL	AGL(m)	MOUNT (UP/DOWN)		MDT (*)	700/ 850	1900/ 2100/ 2600	_AZIMUTH	LINE TYPE	RRUs	STATUS
1-1	LTE	LTE-1	15.0	UP		NA	NA	NA	20	8-LDF4-50A		
1-2	LTE	LTE-2		UP	TTS-608014/D172715/D333815DEI-65FT4	NA	NA	NA	140	8-LDF4-50A	9	INITIAL
1-3	LTE	LTE-3		UP		NA	NA	NA	260	8-LDF4-50A]	
2	GPS	GPS-1	13.4	UP	KRE1012395/2	-	-	-	-	TBD	-	INITIAL
NOTES A TIPLE CONTENTS TO BE CONTENTS WITH BOOKES												

NOTES: 1. TABLE CONTENTS TO BE CONFIRMED WITH ROGERS.

2. CABLE BEND RADIUS AS PER MANUFACTURER'S RECOMMENDATIONS.

3. ANTENNA HEIGHT TO TOP OF ANTENNAS.

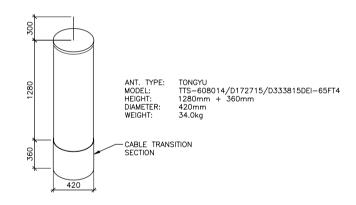
RRUS AND DIPLEXERS/TRIPLEXERS TO BE LOCATED IN CABINETS





MANUFACTURER: ERICSSON MODEL: HEIGHT: DIAMETER: WEIGHT:

KRE1012395/2 74mm 77mm 0.3kg







2022.07.15 ISSUED FOR CLIENT REVIEW Date: No.: Description: EGBC Permit To Practice: 1003171 Revisions:



GS · Sayers ENGINEERING LTD. 1661 West 5th Avenue Vancouver, BC V6J 1N5 T: 604.734.8822 F: 604.734.8842

W4900 Project: Site ID: FRASER HEIGHTS CENTRE 160 ST AND 108A AVE, SURREY, BC **ROGERS**.

Sheet Title: Date: CELLULAR LOADING Scale: **SPECIFICATIONS**

JUL 2022 Drawing: NTS Drawn: RS Checked: GF Project: 222279

