

PROPOSAL:

- **Development Variance Permit**

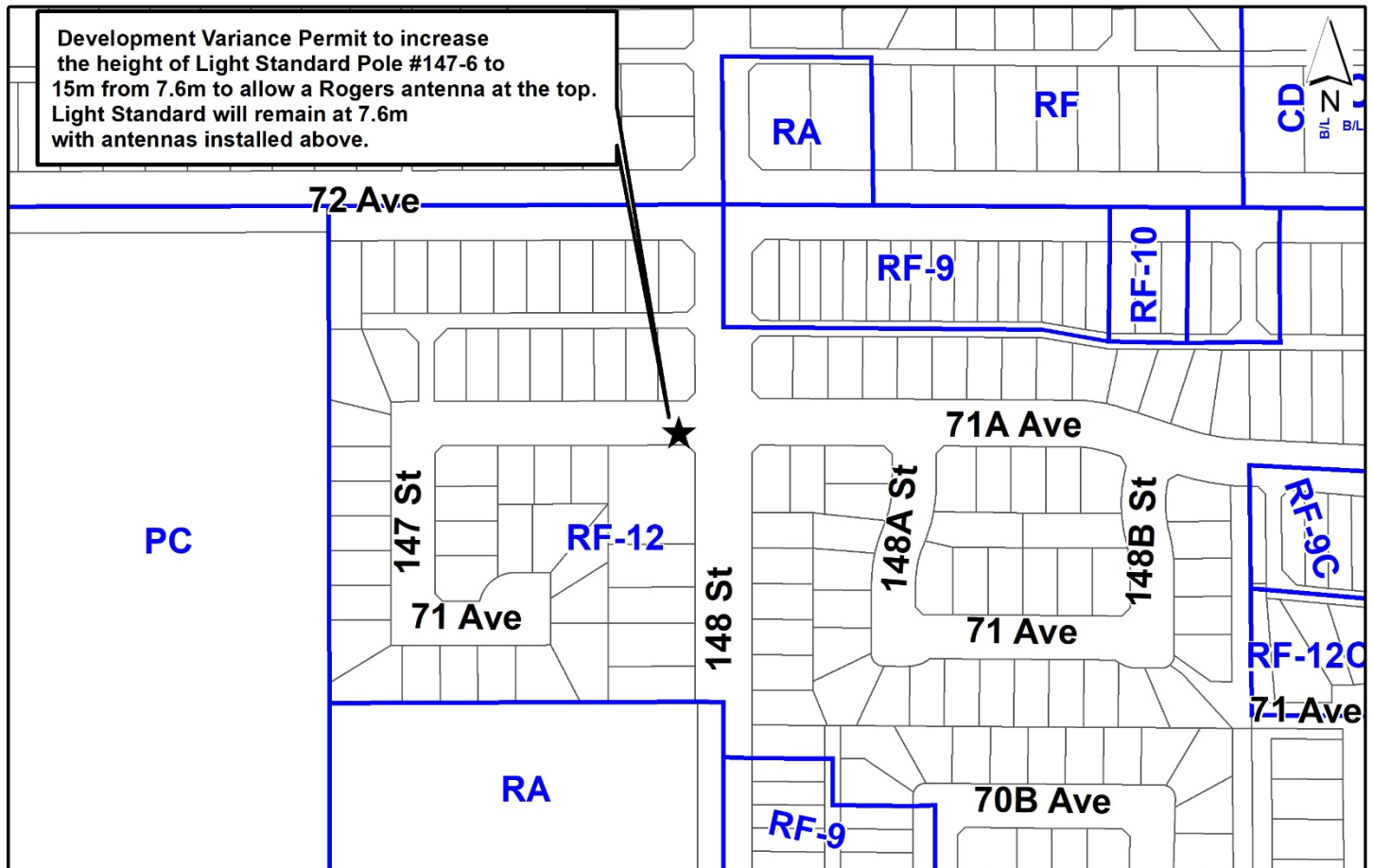
to increase the maximum height of a free-standing antenna system from 12 metres to 15 metres, in order to replace an existing streetlight pole with a streetlight pole with antenna system extension.

LOCATION: City Right-of-Way on 71A Avenue, west of 148 Street

ZONING: RF-12

OCP DESIGNATION: Urban

NCP DESIGNATION: Low Density Compact Housing



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 15 metre streetlight pole with an antenna extension will be replacing an existing 9.1 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.

RECOMMENDATION

The Planning & Development Department recommends that:

1. Council approve Development Variance Permit No. 7922-0265-00 (Appendix II) varying the following, to proceed to Public Notification:
 - (a) to vary Section B.1.(a) ii. b) of Part 4 General Provisions of the Zoning By-law to increase the maximum height of a free-standing light pole and antenna from 12 metres to 15 metres.

SITE CONTEXT & BACKGROUND

Direction	Existing Use	OCP / LAP Designation	Existing Zone
Subject Site	City Road Right-of-way	Urban / Road Right-of-way	RF-12
North (Across 72 Avenue):	Single family dwellings	Urban / Low Density Compact Housing	RF
East (Across 148 Street):	Single family dwellings	Urban / Low Density Compact Housing	RF-9
South:	Single family dwellings	Urban / Low Density Compact Housing	RF
West:	Single family dwellings	Urban / Low Density Compact Housing	RF-12

Context & Background

- The subject site is a City-owned right-of-way on the south side of 71A Avenue abutting 7145 71A Avenue and the intersection of 71A Avenue and 148 Street. The site is designated as “Urban” in the Official Community Plan (OCP) and in an area designated for “Low Density Compact Housing (max. 10 u.p.a.)” in the East Newton South Land Use Plan (LAP).
- The subject site is in a developed single-family residential neighbourhood. The subject road right-of-way segment contains a City of Surrey owned light pole.

DEVELOPMENT PROPOSAL

- Rogers Communications proposes to replace the existing 12 metre high light pole with a 15-metre light pole with an antenna at the top and an equipment cabinet located at grade.

Antenna Location Preferences

- The proposal conforms with the No. O-62. direction that telecommunications antenna on taller streetlights be sited along a collector road (148 Street).
- The proposal conforms with the No. O-62. direction that telecommunications antenna be located on City-owned land.
- The proposed structure will be facing the side yard of the abutting property (7145 148 Street). This conforms with the No. O-62. direction that telecommunications antenna not be located directly in front of doors, windows, balconies, or residential frontages.

Design Preferences

- As the proposal seeks to replace an existing streetlight pole along an arterial road, and the replacement light pole / antenna system will be 3 metres higher than the existing structure, the change to the area's visual characteristics will be minimal.

Public Consultation Process

- In accordance with Policy No. O-62, the applicant completed a public consultation process to mail surrounding property owners and mailing addresses within a notification area of 45 metres (three times the height of the proposed antenna system) and to receive comments for a duration of 30 days.
- Pre-notification letters were sent on October 14, 2022. The applicant and staff received a response from 1 resident expressing opposition for the proposal. The following are summarized as follows (staff comments in italics):
 - The inquirer expressed concern regarding the use of wireless technology as it relates to public health and safety. The inquirer criticized the Health and Industry Canada standards. The inquirer asked whether the proposed installation would deploy 5G, whether the service provider has informed citizens that the radiation emitted from wireless devices has been classified as a carcinogen, if the service provider has done any research on the impacts of 5G signals on humans and flora/fauna, and whether the service provider has provided data on emissions from current antenna systems.

(The proposed antenna is required to be designed, constructed, and operated in adherence with the minimum standards set by Health and Industry Canada, including Safety Code 6. Health Canada is responsible for policy on public safety regarding radio frequency and the research informing it. The proposed antenna will eventually deploy 5G.)

Zoning By-law 12000

Height Variance

- The applicant is requesting the following variances:

- to vary Section B.1.(a) ii. b) of Part 4 General Provisions of the Zoning By-law to increase the maximum height of a free-standing light pole and antenna from 12 metres to 15 metres.
- The additional height will permit the replacement of an existing 12 metre light pole with a 15-metre tall free-standing light pole that includes a wireless telecommunications antenna at the peak and an equipment box at-grade in conformance with direction under policy No. O-62.
- The proposal to replace an existing street light pole with a combination light pole and antenna pole along a collector road is preferred under policy No. O-62.
- The proposal will have limited visual impact as the antenna system will be attached to the top of streetlight pole that are replacing existing streetlight poles.
- Staff support the requested variances to proceed for consideration.

TREES

- No trees will be removed or impacted as part of this telecommunications structure proposal.

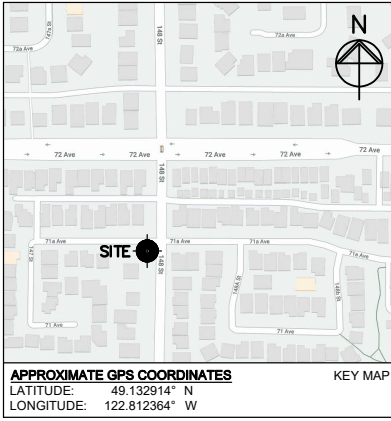
INFORMATION ATTACHED TO THIS REPORT

The following information is attached to this Report:

Appendix I.	Site Plan and Elevations
Appendix II.	Development Variance Permit No. 7922-0265-00
Appendix III.	Photo-Simulation
Appendix IV.	Map of Existing Antenna Sites

approved by Shawn Low

Jeff Arason
Acting General Manager
Planning and Development




ROGERS™

SITE NAME: 148 ST AND 72 AVE

SITE ID: W4905

LOCATION: 148 ST AND 71A AVE
SURREY, BC

SITE TYPE: LIGHT POLE EXTENSION WITH
EQUIPMENT ON GRADE

DRAWING LIST:

- S101 TITLE PAGE
- S201 GENERAL NOTES I
- S202 GENERAL NOTES II
- S203 CELLULAR LOADING SPECIFICATIONS
- S301 SITE PLAN
- S302 PARTIAL SITE PLAN
- S401 NORTH AND EAST ELEVATIONS

ALL DIMENSIONS IN MILLIMETERS
UNLESS NOTED OTHERWISE

	2022.12.06	ISSUED FOR CLIENT REVIEW
	2022.07.15	ISSUED FOR CLIENT REVIEW
No.:	Date:	Description:
Revisions:		
Date:	JUL 2022	Drawing:
Scale:	NA	S101
Drawn:	RS	
Checked:	GF	
Project:	222277	Of


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Project: 148 ST AND 72 AVE
148 ST AND 71A AVE, SURREY, BC

Site ID: **W4905**



EGBC Permit To Practice: 1003171

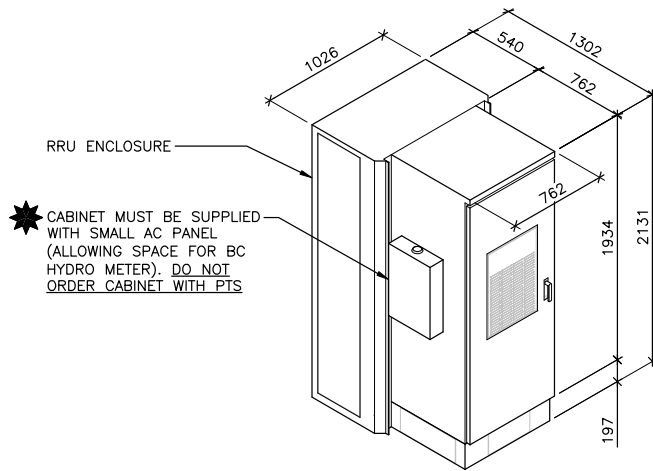
Sheet Title:
TITLE PAGE

ANTENNA TABLE

ANT. POS. No.	ANTENNA ID		MOUNT HEIGHT AGL(m)	ANTENNA MOUNT (UP/DOWN)	ANTENNA TYPE	MDT (°)	MET (°)		AZIMUTH (°)	JUMPER/LINE TYPE	No. OF RRU's	STATUS
	TECHNOLOGY	LABEL					700/850	1900/2100/2600				
1-1	LTE	LTE-1	14.7	UP	TTS-608014/D172715/D333815DEI-65FT4	NA	NA	NA	40	8-LDF4-50A	9	INITIAL
1-2	LTE	LTE-2		UP		NA	NA	NA	160	8-LDF4-50A		
1-3	LTE	LTE-3		UP		NA	NA	NA	280	8-LDF4-50A		
2	GPS	GPS-1	13.1	UP	KRE1012395/2	-	-	-	-	TBD	-	INITIAL

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.

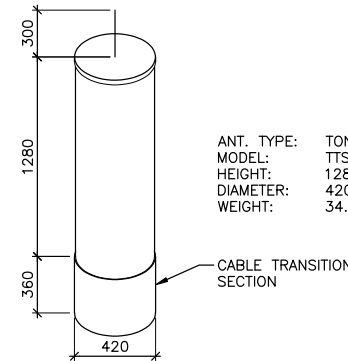
★ RRU's AND DIPLEXERS/TRIPLEXERS TO BE LOCATED IN CABINETS



★ CABINET MUST BE SUPPLIED WITH SMALL AC PANEL (ALLOWING SPACE FOR BC HYDRO METER). DO NOT ORDER CABINET WITH PTS



MANUFACTURER: ERICSSON
 MODEL: KRE1012395/2
 HEIGHT: 74mm
 DIAMETER: 77mm
 WEIGHT: 0.3kg



ANT. TYPE: TONGYU
 MODEL: TTS-608014/D172715/D333815DEI-65FT4
 HEIGHT: 1280mm + 360mm
 DIAMETER: 420mm
 WEIGHT: 34.0kg

1 CABINET ISOMETRIC
 NTS (DCI 6500-E-r)

2 ANTENNA DETAILS
 NTS

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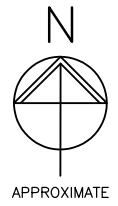
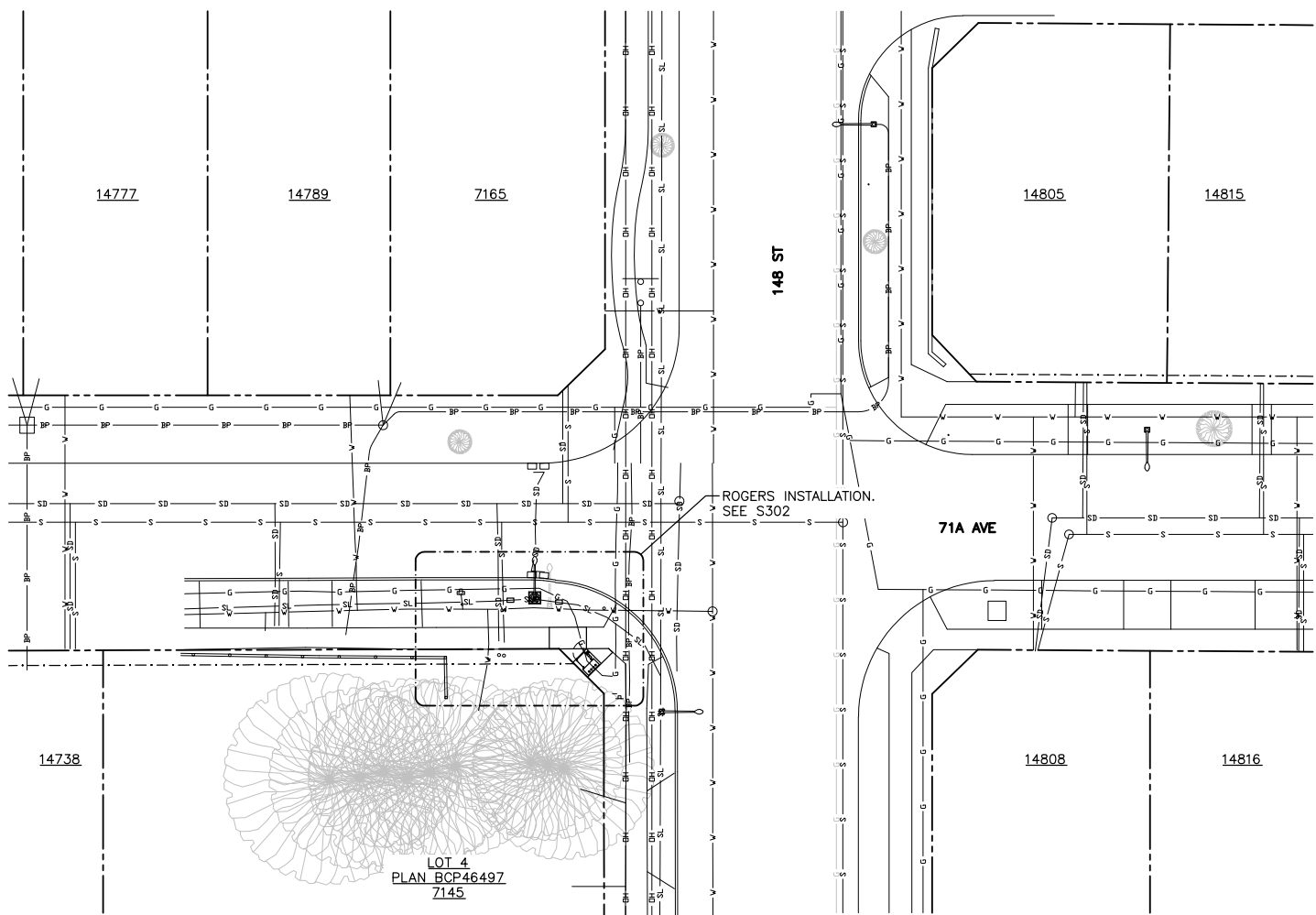
Project: 148 ST AND 72 AVE
 148 ST AND 71A AVE, SURREY, BC



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Sheet Title:
CELLULAR LOADING SPECIFICATIONS

Revisions:	
Date: JUL 2022	Drawing:
Scale: NTS	S203
Drawn: RS	
Checked: GF	
Project: 222277	Of



NOTES:

1. THE INFORMATION CONTAINED IN THIS DRAWING WAS OBTAINED FROM A SURVEY PREPARED BY MATSON PECK AND TOPLISS, DATED SEPTEMBER 29, 2022, THE CITY OF SURREY ONLINE GIS, AND A SITE VISIT BY GS SAYERS ON JULY 4, 2022.
2. EXISTING UNDERGROUND SERVICES SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY AND ADDITIONAL UNDERGROUND SERVICES MAY EXIST THAT ARE NOT SHOWN. CONTRACTOR IS RESPONSIBLE TO LOCATE ANY AND ALL BURIED SERVICES IN THE VICINITY OF REQUIRED EXCAVATION PRIOR TO CONSTRUCTION. USE HAND DIGGING WHERE APPROPRIATE.

LEGEND:

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- (E) - DENOTES EXISTING
- (F) - DENOTES FUTURE
- (TYP) - DENOTES TYPICAL
- - DENOTES PROPERTY LINE
- . - . - . - DENOTES RIGHT-OF-WAY LINE
- BP— - DENOTES (E) BURIED POWER CONDUIT
- V— - DENOTES (E) BURIED WATER LINE
- SD— - DENOTES (E) BURIED STORM DRAIN
- S— - DENOTES (E) BURIED SEWER LINE
- OH— - DENOTES (E) OVERHEAD UTILITY LINE
- G— - DENOTES (E) BURIED GAS LINE
- SL— - DENOTES (E) BURIED STREETLIGHT CONDUIT

ROGERS INSTALLATION.
SEE S302

LOT 4
PLAN BCP46497
7145

1 SITE PLAN
1:300

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EGBC Permit To Practice: 1003171	Revisions:	
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	Drawn: RS	
	Checked: GF	
	Project: 222277	Of

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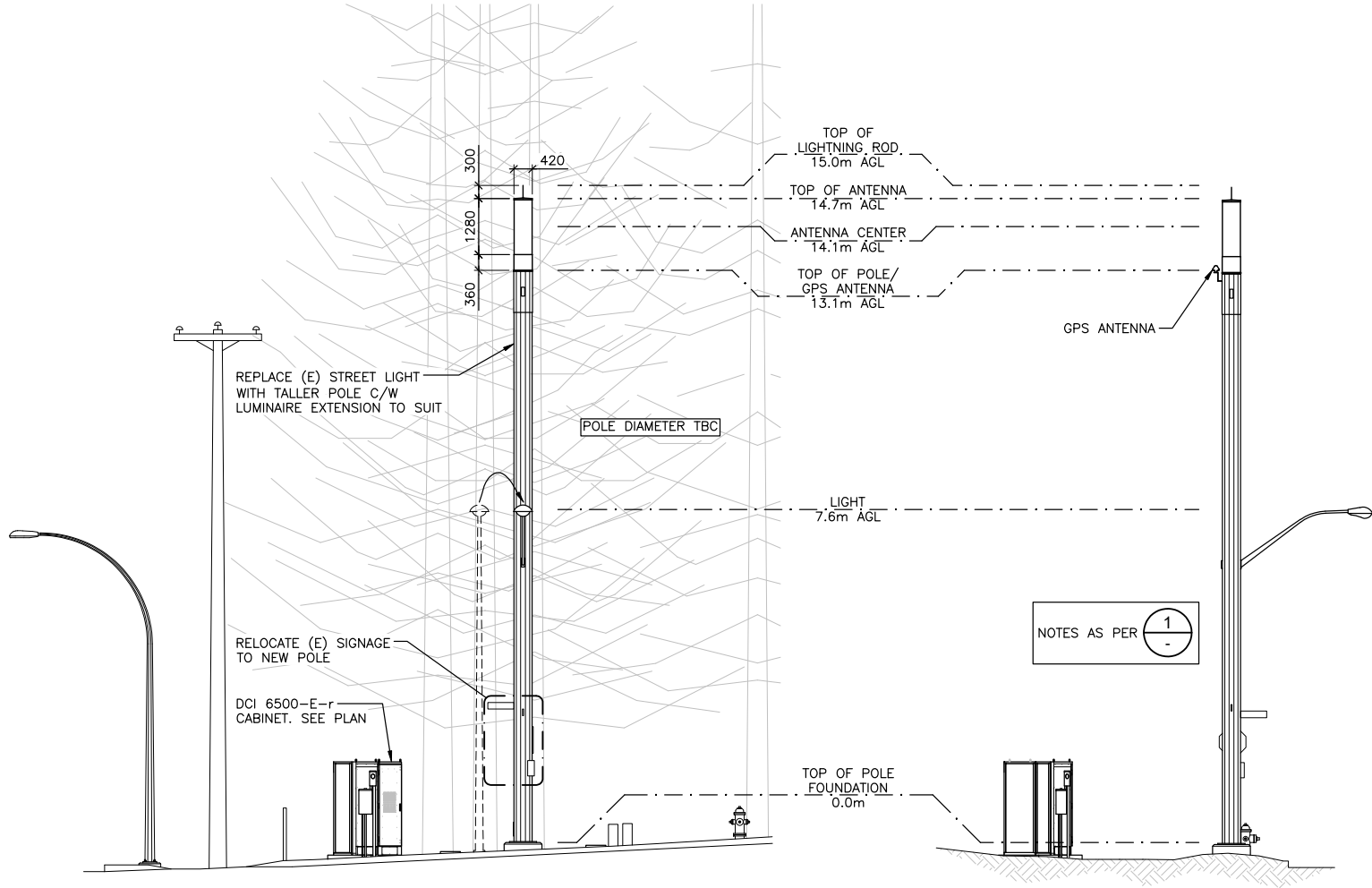
Project: Site ID: **W4905**
148 ST AND 72 AVE
148 ST AND 71A AVE, SURREY, BC
ROGERS

NOTES:

1. NEW POLE AND TRI-SECTOR ANTENNA COLOUR TO MATCH EXISTING POLE.

LEGEND:

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- (E) - DENOTES EXISTING
- (TYP) - DENOTES TYPICAL
- AGL - DENOTES ABOVE GRADE LEVEL



1 NORTH ELEVATION
S302 1:100

2 EAST ELEVATION
S302 1:100

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148 ST AND 71A AVE, SURREY, BC
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EGBC Permit To Practice: 1003171
Sheet Title:
NORTH AND EAST ELEVATIONS

Revisions:	
Date: JUL 2022	Drawing:
Scale: 1:100	S401
Drawn: RS	
Checked: GF	
Project: 222277	Of

CITY OF SURREY

(the "City")

DEVELOPMENT VARIANCE PERMIT

NO.: 7922-0265-00

Issued To: City of Surrey
(the Owner)

Address of Owner: ATTENTION: KEN WOODWARD (REALTY DEPT)
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 Road Right-Of-Way on 71A Avenue West of 148 Street
Adjacent to 7145 - 148 Street

(the "Land")
3. Surrey Zoning By-law, 1993, No. 12000, as amended is varied as follows:
 - to vary Section B.1.(a) ii. b) of Part 4 General Provisions of the Zoning By-law to increase the maximum height of a free-standing light pole and antenna from 12 metres to 15 metres.
5. This development variance permit applies to only the portion of the Land 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.

AUTHORIZING RESOLUTION PASSED BY THE COUNCIL, THE DAY OF , 20 .
ISSUED THIS DAY OF , 20 .

Mayor – Brenda Locke

City Clerk – Jennifer Ficocelli

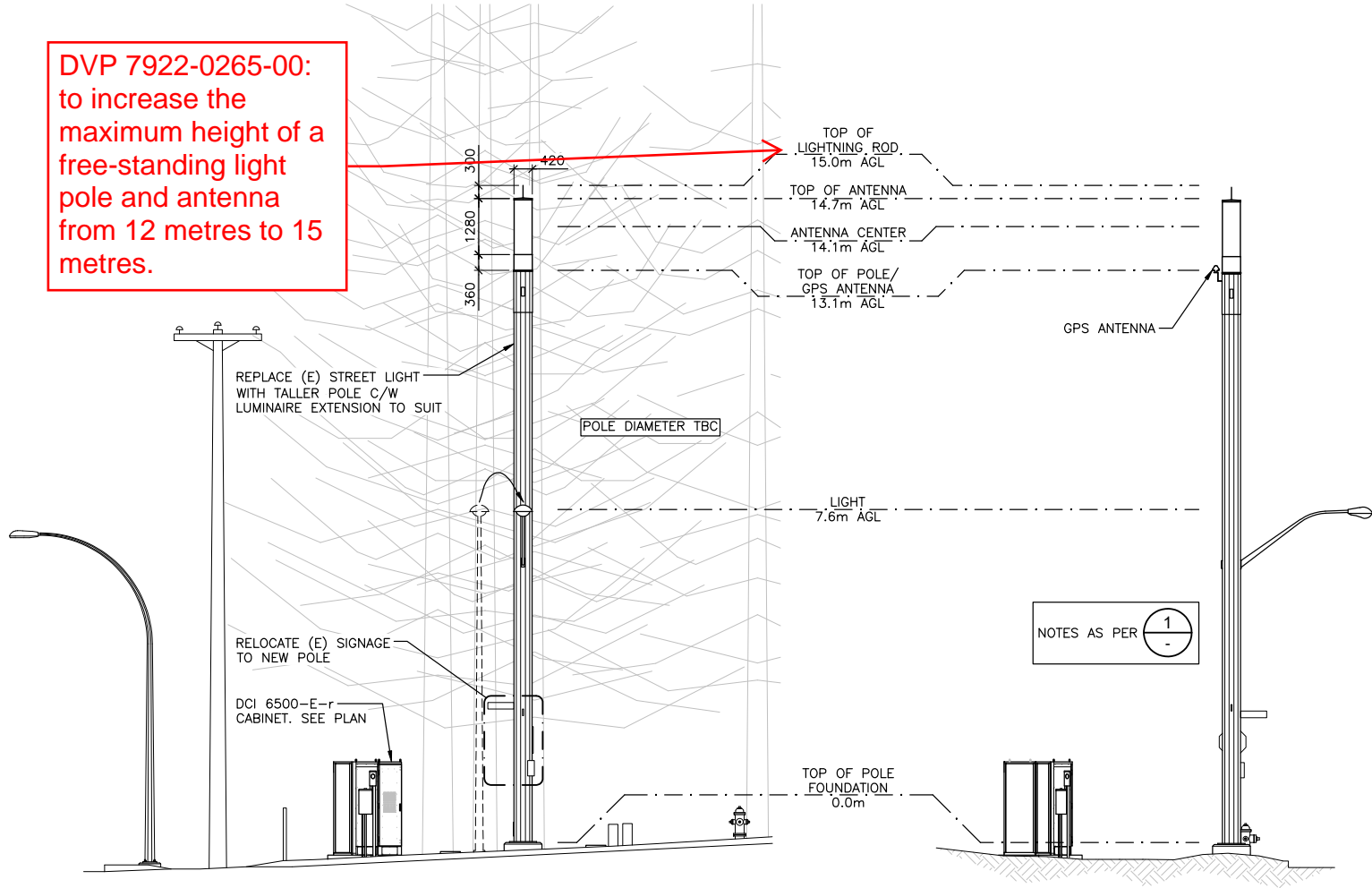
DVP 7922-0265-00:
to increase the maximum height of a free-standing light pole and antenna from 12 metres to 15 metres.

NOTES:

- NEW POLE AND TRI-SECTOR ANTENNA COLOUR TO MATCH EXISTING POLE.

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1 NORTH ELEVATION
S302 1:100

2 EAST ELEVATION
S302 1:100

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Site ID: **W4905**
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Sheet Title:
NORTH AND EAST ELEVATIONS

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PHOTO-SIMULATION
Before

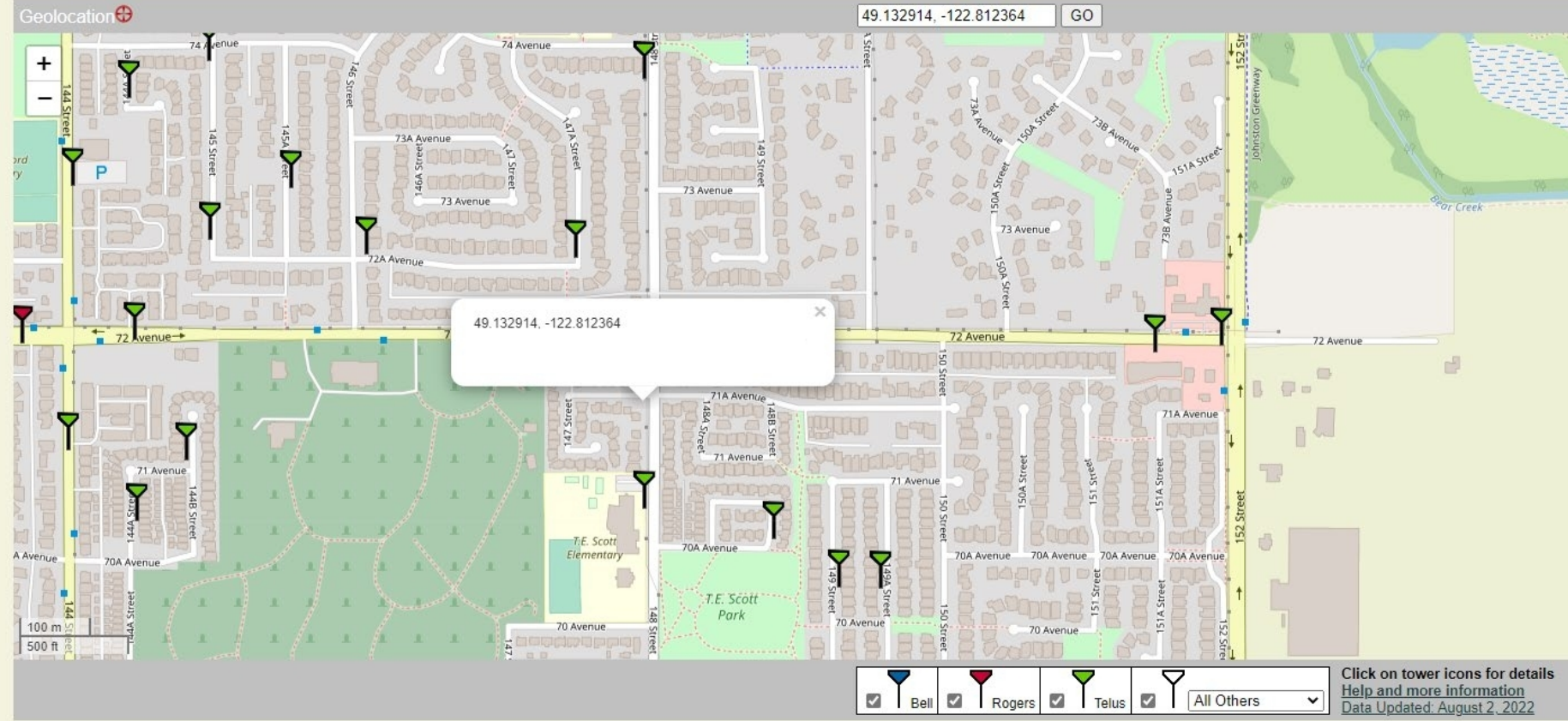


After



MAP OF EXISTING SITES

Canadian Cellular Towers Map



ROGERS SITE: W4905