

# City of Surrey PLANNING & DEVELOPMENT REPORT Application No.: 7920-0124-00

Planning Report Date: November 9, 2020

#### **PROPOSAL:**

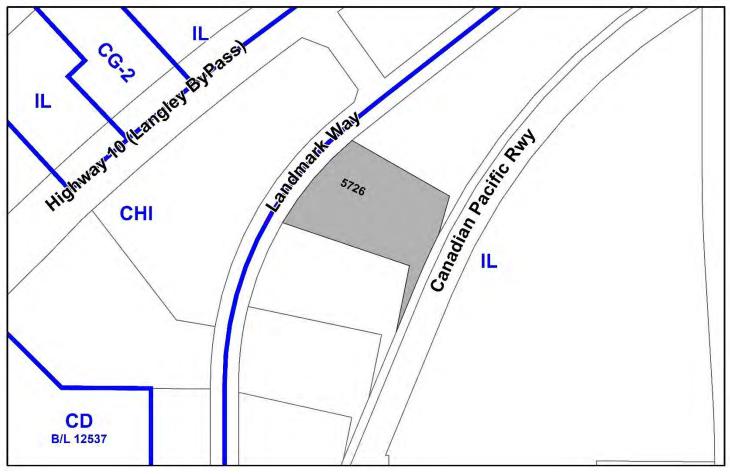
#### • Development Variance Permit

to increase the maximum height of a free-standing telecommunications tower from 12 metres to 31.5 metres and reduce the required side and rear yard setbacks.

LOCATION: 5726 - Landmark Way

ZONING: IL

**OCP DESIGNATION:** Industrial



#### **RECOMMENDATION SUMMARY**

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

#### **DEVIATION FROM PLANS, POLICIES OR REGULATIONS**

• Seeking variances to the Zoning By-law to increase the maximum permitted height of a free-standing telecommunications tower from 12 metres to 31.5 metres and to reduce the north side and east rear yard setback for the tower and associated equipment compound.

#### RATIONALE OF RECOMMENDATION

- The proposal complies with the majority of criteria identified in the City's Policy for Telecommunications Towers.
- The applicant has provided information indicating that there are no existing structures that are suitable to mount telecommunication equipment within a 500-metre (1,640 ft.) radius of the subject site.
- The proposed location of the tower is located at the rear of an industrial lot which will screen the base of the tower from Landmark Way. The site is within the Cloverdale industrial area.
- The applicant has provided documentation which indicates that there is a demonstrated coverage gap in the area, which the wireless carrier would like to resolve to provide better service to existing and potentially new customers.

#### RECOMMENDATION

The Planning & Development Department recommends that:

- 1. Council approve Development Variance Permit No. 7920-0124-00 (Appendix II) varying the following, to proceed to Public Notification:
  - (a) to vary Part 4 General Provisions of the Zoning By-law to increase the maximum height of a free-standing telecommunications tower from 12 metres to 31.5 metres; and
  - (b) to reduce the minimum north side yard setback of the IL Zone from 7.5 metres to 5.0 metres for the telecommunication tower and 1.0 metre for the associated equipment compound and to reduce the minimum east rear yard setback of the IL Zone from 7.5 metres to 6.0 metres for the telecommunication tower and 2.0 metres for the associated equipment compound.

#### SITE CONTEXT & BACKGROUND

Direction	<b>Existing Use</b>	OCP Designation	Existing Zone
Subject Site	Two industrial	Industrial	IL
	buildings for auto		
	repair.		
North:	Multi-unit	Industrial	IL
	industrial building.		
East (Across CP Railway):	Multi-unit	Industrial	IL
	industrial building		
	and McLellan		
	Creek (Class A		
	watercourse).		
South:	Multi-unit	Industrial	IL
	industrial building.		
West (Across Landmark Way):	Car Dealership	Mixed	CHI
		Employment	

#### **Context & Background**

- The subject site is approximately 6,266 square metres in size and is located at 5726 Landmark Way. The site is designated Industrial in the Official Community Plan (OCP) and is zoned "Light Impact Industrial Zone (IL)".
- The subject site is currently occupied by two industrial buildings for an auto repair business.

#### **DEVELOPMENT PROPOSAL**

• Cypress Land Services Ltd. on behalf of Telus is proposing to erect a 31.5-metre tall telecommunications tower and equipment compound at the rear of the subject site.

- Staff and the applicant explored whether there were existing structures of sufficient height
  within a 500-metre radius of the subject site to mount equipment, but no such structures
  were found.
- The proposal will provide improved telecommunication coverage and capacity for the area generally bound by 60 Avenue to the north, 198 Street in Langley to the east, Nicomekl River to the south, and 191 Street to the west (see Appendix V).
- The applicant is seeking a Development Variance Permit (DVP) to increase the maximum height of a free-standing telecommunications tower from 12 metres to 31.5 metres and to reduce the minimum north side yard setback from 7.5 metres to 5.0 metres for the telecommunication tower and 1.0 metre for the associated equipment compound and reduce the minimum east rear yard setback of the IL Zone from 7.5 metres to 6.0 metres for the telecommunication tower and 2.0 metres for the associated equipment compound.
- The applicant is proposing to install on the proposed monopole, two rows of panel antennas for a total of six panel antennas. The design of the tower allows for the future addition of an additional row of three panel antennas. A 1.5-metre lighting rod is located at the top of the proposed monopole.
- The proposed telecommunication tower and compound are located at the northeast corner of the site adjacent an existing industrial building and are sited such that it will have a minimum impact on the functionality of the site.
- The applicant has provided a rendering of what the proposed be galvanized steel grey monopole will look like from the east along 196 Street (Appendix III).
- As the proposed location of the tower/compound is at the rear of an existing industrial building, no landscaping or screening is proposed.

#### Referrals

Engineering: The Engineering Department has no objection to the project.

Canadian Pacific Railway: Canadian Pacific Railway has no objection to the project.

#### **Natural Area Considerations**

- The subject site is in proximity to a Class C watercourse, adjacent the subject site, and a Class A watercourse (McLellan Creek), located on the east side of the Canadian Pacific Railway right-of-way.
- The subject site is therefore within a Sensitive Ecosystem Development Permit Area for Streamside Areas.

- The applicant engaged a Qualified Environmental Professional (QEP) to complete a watercourse analysis for the Class C watercourse. The QEP has confirmed that the watercourse is a green-coded ditch. Streamside protection measures are therefore not required.
- The existing Class A watercourse classification for McLellan Creek located on the east side of the Canadian Pacific Railway has been confirmed by the QEP. The proposed tower/compound location is beyond the required 30-metre setback to the top-of-bank (see Appendix I). The proposed telecommunication tower and compound is located within a paved area on an existing industrial property outside of the required setback area. As such, it has been determined that a Sensitive Ecosystem Development Permit is not required.

#### POLICY & BYLAW CONSIDERATIONS

- Staff have relayed to telecommunication companies the importance of a comprehensive strategy to ensure adequate coverage for all carriers while minimizing the number of singular user installations and keeping the height of installations to a minimum without compromising the existing policy guidelines, especially tower proximity to residential areas and aesthetics being adequately addressed.
- 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 telecommunications tower supports the City of Surrey's vision for building a strong economy.

#### <u>City's Telecommunications Strategy</u>

- The subject application generally complies with the current Telecommunications Tower Policy No. O-49 and is therefore being presented for Council's consideration.
- The City policy on telecommunication towers was developed in conjunction with wireless providers and approved by Council on June 18, 2001 (Policy No. O-49 Telecommunication Towers). The policy provides parameters on how the towers should be sited and designed.
- The following is an evaluation of the current proposal in relation to Policy No. O-49:

#### **Location and Siting**

 When considering the siting of telecommunication tower facilities, every effort should be made to locate new equipment on existing structures such as BC Hydro transmission line towers, utility poles, roof tops, etc.

The applicant has indicated that they require a 31.5-metre height in order to ensure an expanded infill coverage area generally bound by 60 Avenue to the north, 198 Street in Langley to the east, Nicomekl River to the south, and 191 Street to the west (see Appendix V).

The applicant has informed staff that there are no existing structures within a 500-metre radius from the proposed location of the telecommunication tower that have the necessary height to facilitate the increased coverage area. They have provided a map of all existing telecommunication towers in the area (Appendix IV).

• It is preferable that new free-standing telecommunication towers be sited in non-residential locations and preferably in industrial areas.

The proposed location is located within an industrial area and is approximately 340 metres from residential properties across 196 Street and 56 Avenue to the southeast in Langley and 600 metres from residential properties across 192 Street to the west.

• Towers on prominent natural and cultural features, environmentally sensitive areas or areas with historically significant buildings are discouraged.

The proposed location of the installation is within an industrial area and is void of any cultural features. The applicant completed a watercourse analysis and determined that the watercourse on the west side of the Canadian Pacific Railway is a green coded ditch and the watercourse on the east side of the Canadian Pacific Railway is a red-coded McLellan Creek. The applicant is proposing a setback of beyond 30 metres from McLellan Creek's top-of-bank.

• New free-standing telecommunication towers should be located at a distance from the edge of an existing or future road allowance no less than the height of the tower.

The 31.5-metre tall wireless installation is located at the rear of an industrial lot approximately 70 metres from Landmark Way.

Locating of telecommunication towers on sites with mature trees is encouraged.

The subject site currently has a few undersized trees. Across the CP Rail lines to the east there are some mature trees that will partially screen the proposed tower from the east.

All applicants for free-standing telecommunication structures will be requested to identify
any other structure (e.g. hydro transmission tower, existing telecommunication towers, etc.)
within a radius of 500 metres from the proposed location and to provide reasons why other
existing structures within that radius are not acceptable for use (i.e. structural capabilities,
safety, available space or failing to meet service coverage needs).

There are no suitable structures for mounting equipment within a 500-metre radius of the subject site that have the necessary height to facilitate the increased coverage area.

#### Co-Location

• The carriers and other telecommunication tower owners are encouraged to work co-operatively in reaching agreements which allow for sharing of tower structures so as to minimize the total number of towers in the City. This practice is typically referred to as "co-location".

No other carriers have requested to co-locate on the proposed tower.

If co-location were required, it would require an additional height of approximately 11 metres as well as additional width and massing which would make the proposed tower more visible.

#### Tower Design and Landscaping Criteria

• Towers and ancillary equipment shelters will be designed to fit their surroundings and to minimize their visual impact on surrounding properties.

The proposed tower is located at the rear of an industrial building and the base and compound will not be visible from any roads.

• The use of the monopole is encouraged. Where a tower is being constructed to accommodate a single user, a monopole design is required.

The proposed tower is a monopole design. Due to the height proposed, the proposed tower is for a single carrier.

• Landscaping shall be appropriately placed around telecommunication towers and ancillary facilities, such as equipment shelters, to minimize their visual impact on the neighbourhood.

No landscaping is proposed as the tower and compound are located at the rear of an existing industrial building.

#### BY-LAW VARIANCES AND JUSTIFICATION

- (a) Requested Variances:
  - To vary Part 4 General Provisions of the Zoning-By-law, to increase the maximum height of a free-standing telecommunications tower from 12 metres to 31.5 metres; and
  - To reduce the minimum north side yard setback of the IL Zone from 7.5 metres to 5.0 metres for the telecommunication tower and 1.0 metre for the associated equipment compound and reduce the minimum east rear yard setback of the IL Zone from 7.5 metres to 6.0 metres for the telecommunication tower and 2.0 metres for the associated equipment compound.

#### Applicant's Reasons:

- The applicant has submitted documentation demonstrating that there is a coverage gap in the area, which the proposed telecommunications tower would assist in resolving.
- There are limited options for locating cell towers in the area.
- The proposed location within the site is located at the rear of the existing industrial building in an area that is currently used as a lean-to for storage which will be removed to facilitate the proposed tower.

#### Staff Comments:

- The proposal complies with the majority of criteria identified in the City's Policy for Telecommunications Towers.
- The proposed setback variances are not anticipated to adversely impact the adjacent industrial properties to the south or north
- Staff support the requested variances.

#### **PUBLIC ENGAGEMENT**

In accordance with City policy, the applicant sent out approximately 50 notification packages on August 12, 2020 to property owners within a notification area of 90 metres, which is approximately three times the height of the proposed tower.

As a result of these notifications, one response was received by the agent concerning the proposed tower with the following concerns (staff comments in italics):

- The proposed tower is too close to an existing business that operate heavy equipment and the neighbour is concerned that the tower may interfere with the equipment.
  - (The proposed tower is required to be designed, constructed, and operated in adherence with the minimum standards set by Health and Industry Canada, including Safety Code 6.)
- Staff of a neighbouring business have concerns on staff's health due to the proposed tower.

(The proposed tower is required to be designed, constructed, and operated in adherence with the minimum standards set by Health and Industry Canada, including Safety Code 6.)

#### **TREES**

No by-law sized trees will be removed as part of this telecommunication tower proposal.

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#### INFORMATION ATTACHED TO THIS REPORT

The following information is attached to this Report:

Appendix I. Proposed, Site Plan, Building Elevations, Landscape Plans and Watercourse

Maps

Appendix II. Development Variance Permit No. 7920-0124-00

Appendix III. Renderings

Appendix IV. Existing towers in the area

Appendix V. Coverage Map

approved by Ron Gill

Jean Lamontagne General Manager

Planning and Development

JKS/cm

#### Appendix I



## **NEW MONOPOLE TOWER** SITE

S	Sheet List Table
Sheet Number	Sheet Title
	General
P00.0	TITLE PAGE
-	Architectural
P01.0	SITE LAYOUT
P02,0	COMPOUND LAYOUT
P03.0	SITE ELEVATION
POALO PROPOSED & FUTURE EQUIPMENT LEVELS	

### **Project Information**

Client: TELUS MOBILITY

Site: BC004930 'SURREY - LANDMARK

WAY/LANDMARK GATE'

Site Location: 5726 LANDMARK WAY, SURREY, BC

Coordinates: LAT: 49.106556

LONG: -122,682694

Structure: MONOPOLE STRUCTURE

Job No: E3554

Date: 070CT2020

Revision: 3

Purpose: ISSUED FOR PRELIMINARY REVIEW

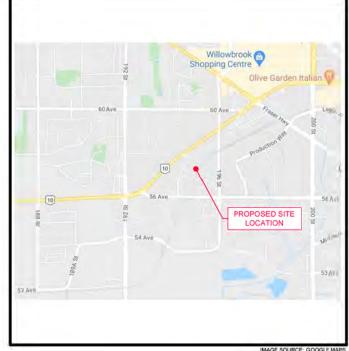


IMAGE SOURCE: GOOGLE MAPS

#### Abbreviations

AGL = ABOVE GROUND LEVEL ANT. - ANTENNA

AZ. - AZIMUTH

BCD - BOLT CIRCLE DIAMETER C/L - CENTRE LINE EQ. - EQUAL OF EQUIVALENT EX = EXISTING

F/S = FAR SIDE HDG = HOT DIP GALVANIZED

HT. = HEIGHT MECH. = MECHANICAL M/W = MICROWAVE

N/S = NEAR SIDE O/C = ON CENTRE

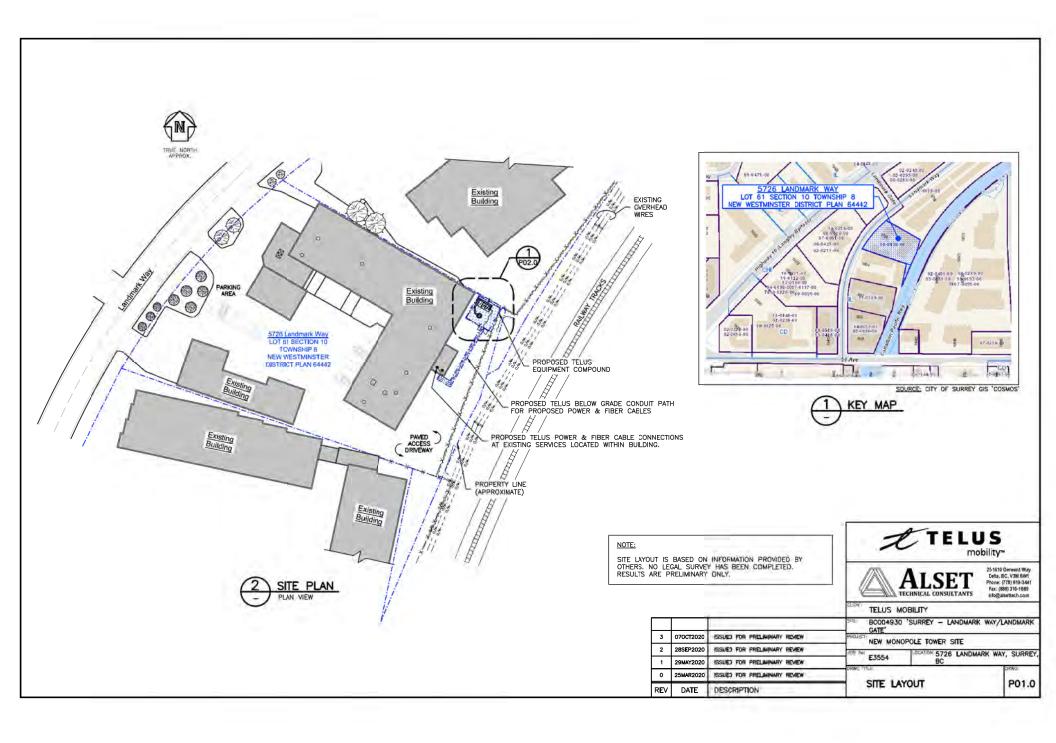
O/D = OUTER DIAMETER OPP. = OPPOSITE QTY = QUANTITY

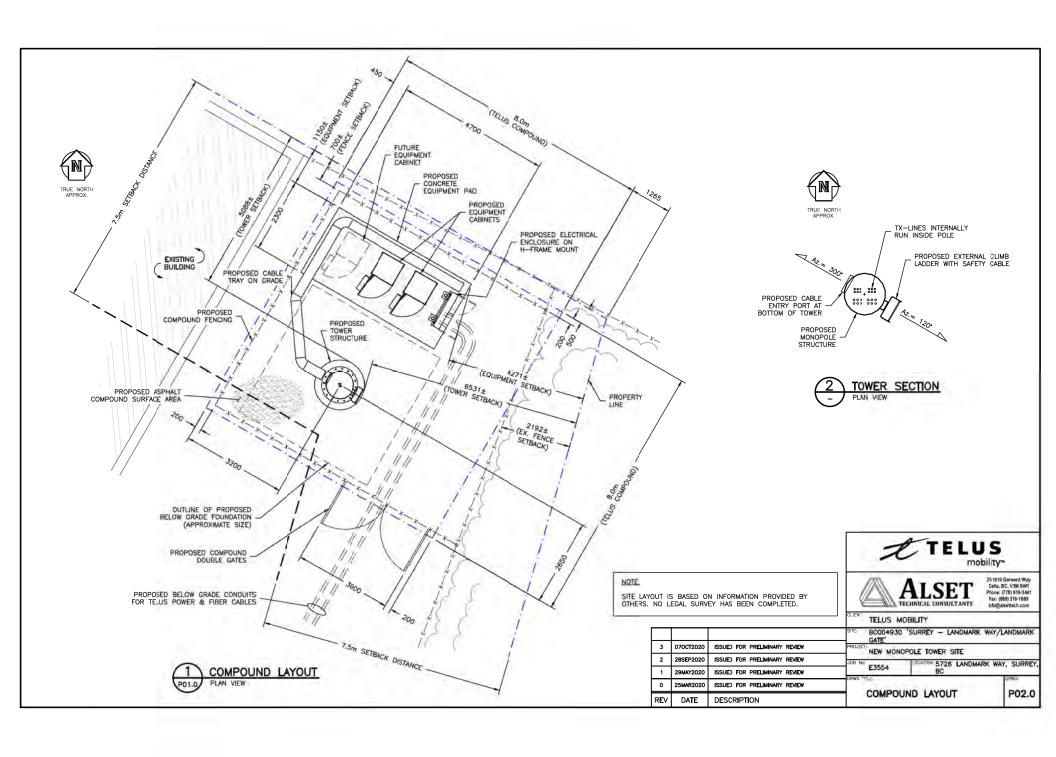
SIM. = SIMILAR S.S. = STAINLESS STEEL TYP. = TYPICAL UNO = UNLESS NOTED OTHERWISE NONEBRING DESIGN, ANALYSIS, 8 INSPECTIONS

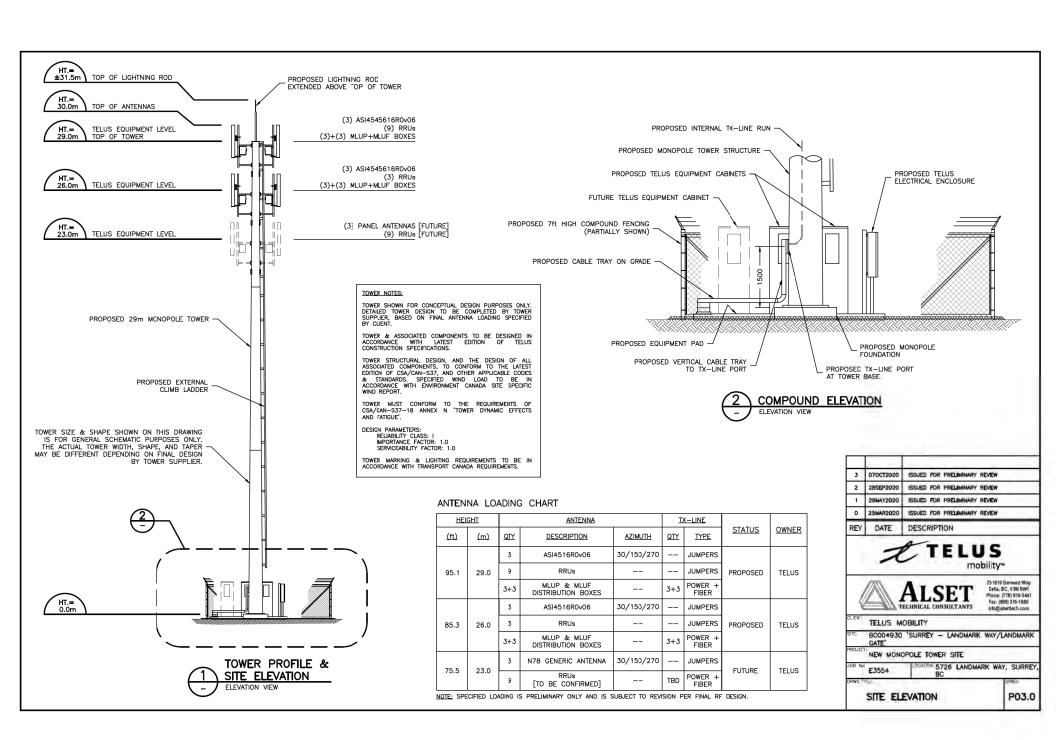
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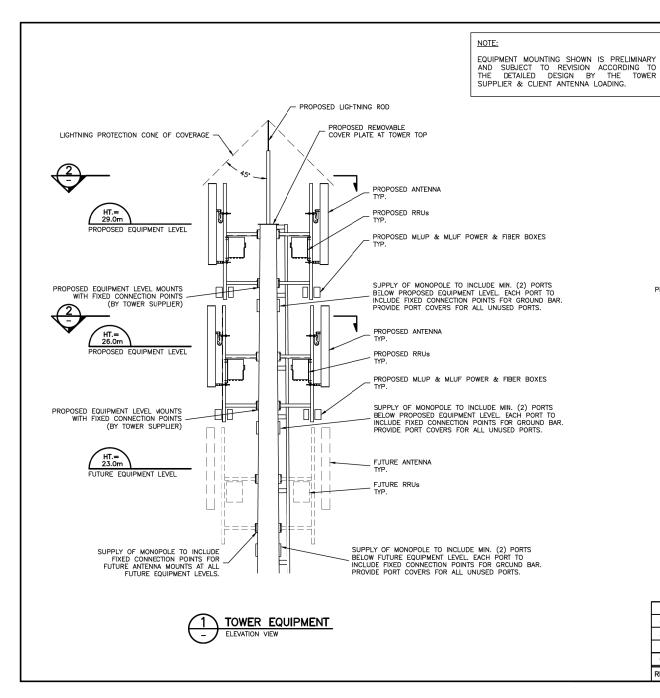
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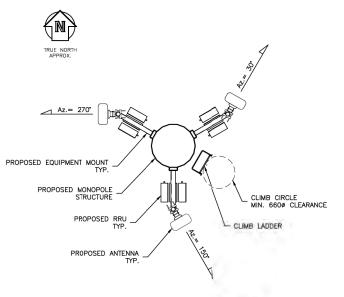
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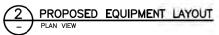


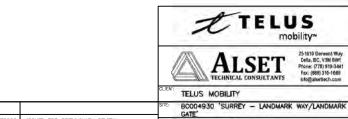












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2	28SEP2020	ISSUED FOR PRELIMINARY REVIEW	JOB No.
1	29MAY2020	ISSUED FOR PRELIMINARY REVIEW	DRWG 17
0	25MAR2020	ISSUED FOR PRELIMINARY REVIEW	DANG
REV	DATE	DESCRIPTION	- 3

NEW MONOPOLE TOWER SITE

E3554

LOCATION 5726 LANDMARK WAY, SURREY
BC

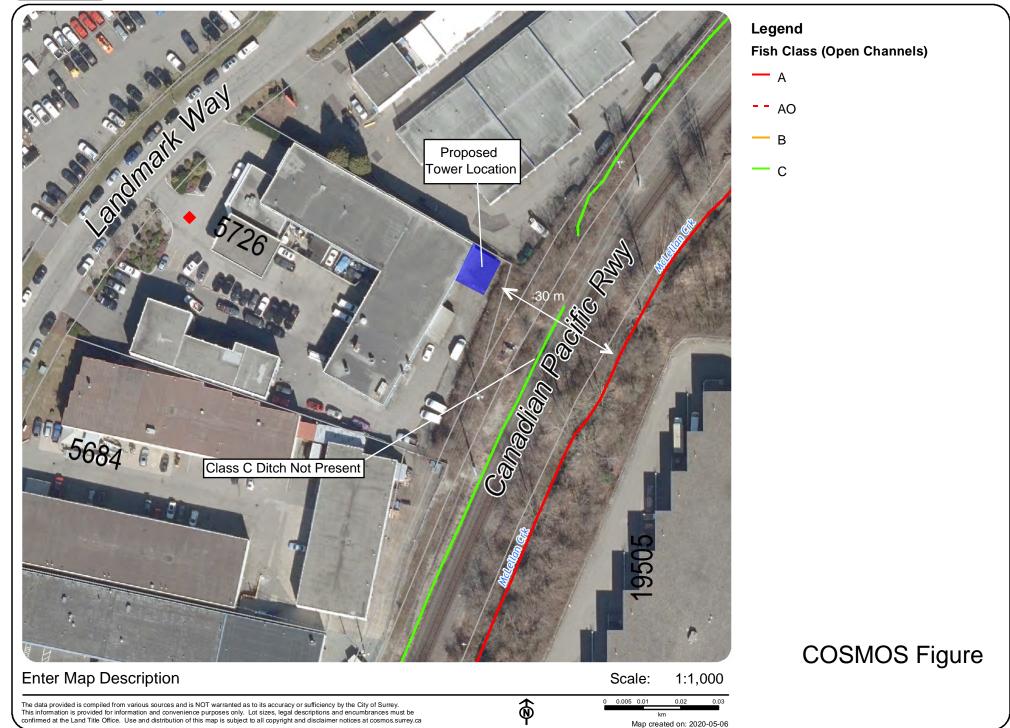
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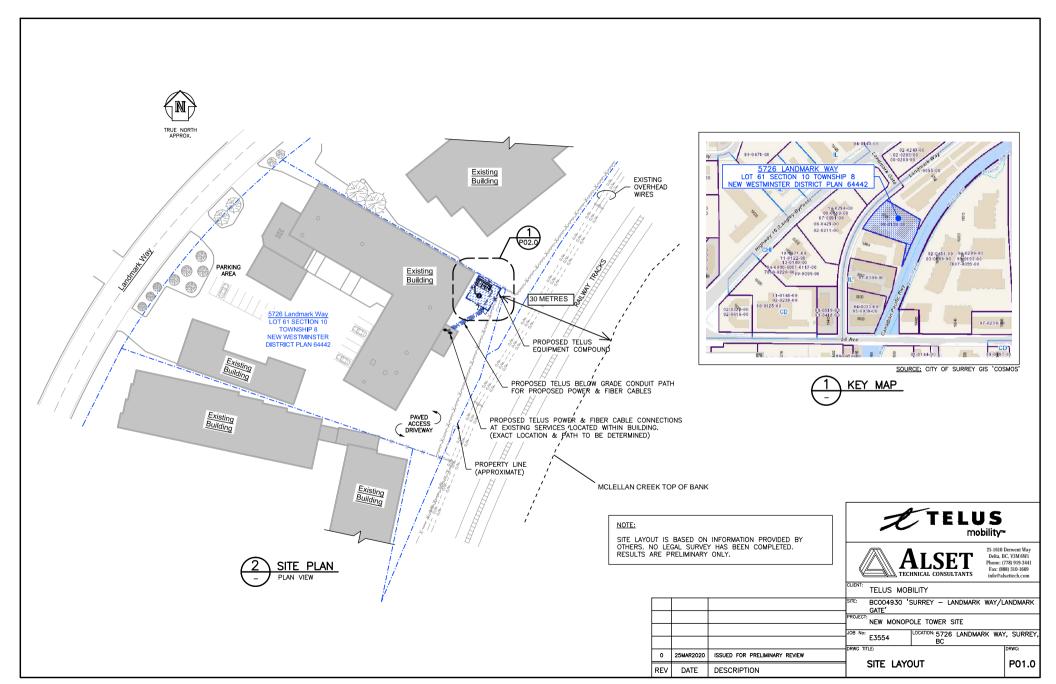
P04.0

PROPOSED & FUTURE EQUIPMENT LEVELS

## COSM®S

## **City of Surrey Mapping Online System**





#### **CITY OF SURREY**

(the "City")

#### **DEVELOPMENT VARIANCE PERMIT**

NO.: 7920-0124-0	0
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Issued To:

(the "Owner")

Address of Owner:

- 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: 003-469-743 Lot 61 Section 10 Township 8 New Westminster District Plan 64442

2576 - Landmark Way

(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, the height of a telecommunication tower is increased from 12 metres to 31.5 metres; and
  - (b) In Section F. Yards and Setbacks of Part 48 Light Impact Industrial Zone (IL) the north side yard setback is reduced from 7.5 metres to 5.0 metres for the telecommunication tower and 1.0 metre for the associated equipment compound and reduce the minimum east rear yard setback of the IL Zone from 7.5 metres to 6.0 metres for the telecommunication tower and 2.0 metres for the associated equipment compound.
- 4. The siting of buildings and structures shall be in accordance with the drawings numbered 7920-0124-00(A) through to and including 7920-0124-00(E) (the "Drawings") which are attached hereto and form part of this development variance permit.

5.	This development variance permit applies to only that portion of the buildings and structures on 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.
	ORIZING RESOLUTION PASSED BY THE COUNCIL, THE DAY OF , 20 . D THIS DAY OF , 20 .
	Mayor – Doug McCallum

City Clerk – Jennifer Ficocelli



## NEW MONOPOLE TOWER SITE

Sheet List Table				
Sheet Number	Sheet Title			
	General			
P00.0	TITLE PAGE			
	Architectural			
P01.0	SITE LAYOUT			
P02.0	COMPOUND LAYOUT			
P03J)	SITE ELEVATION			
P04.0	POALS PROPOSED A FUTURE EQUIPMENT LEVELS			

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IMAGE SOURCE GOOGLE MAPS

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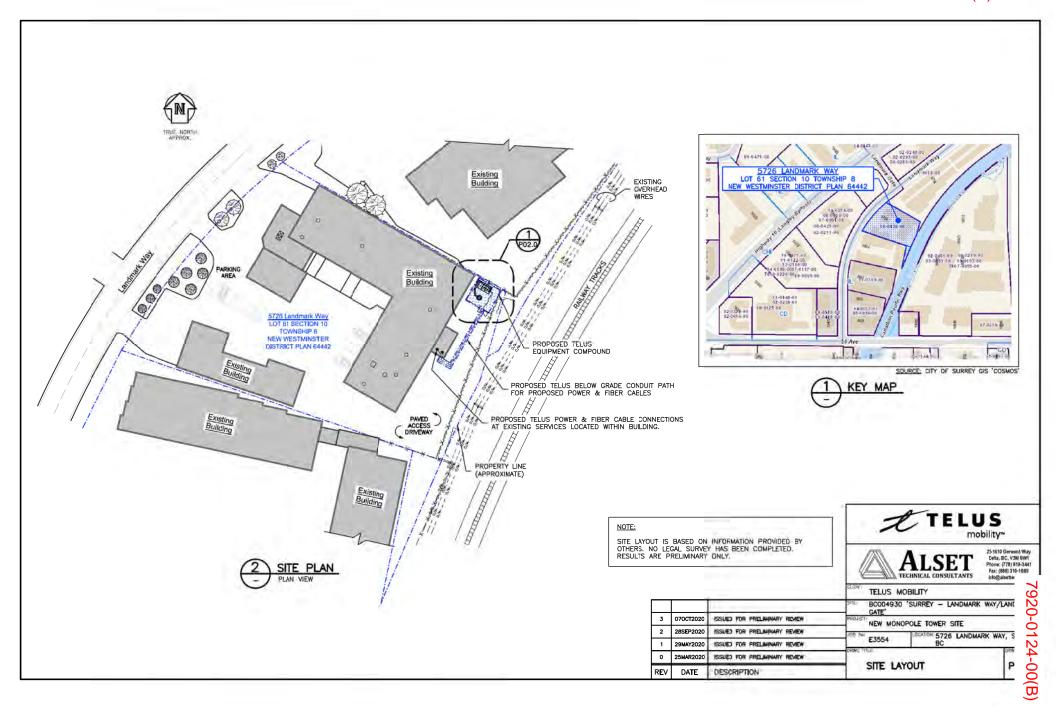
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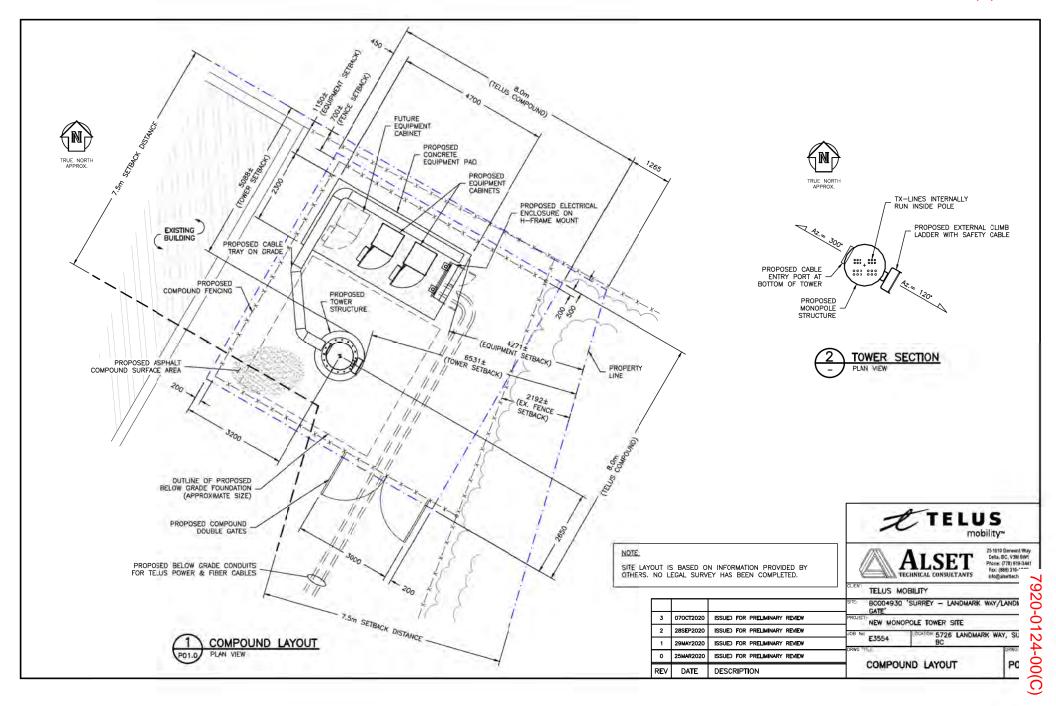
OPP. = OPPOSITE QTY = QUANTITY SIM. = SIMILAR

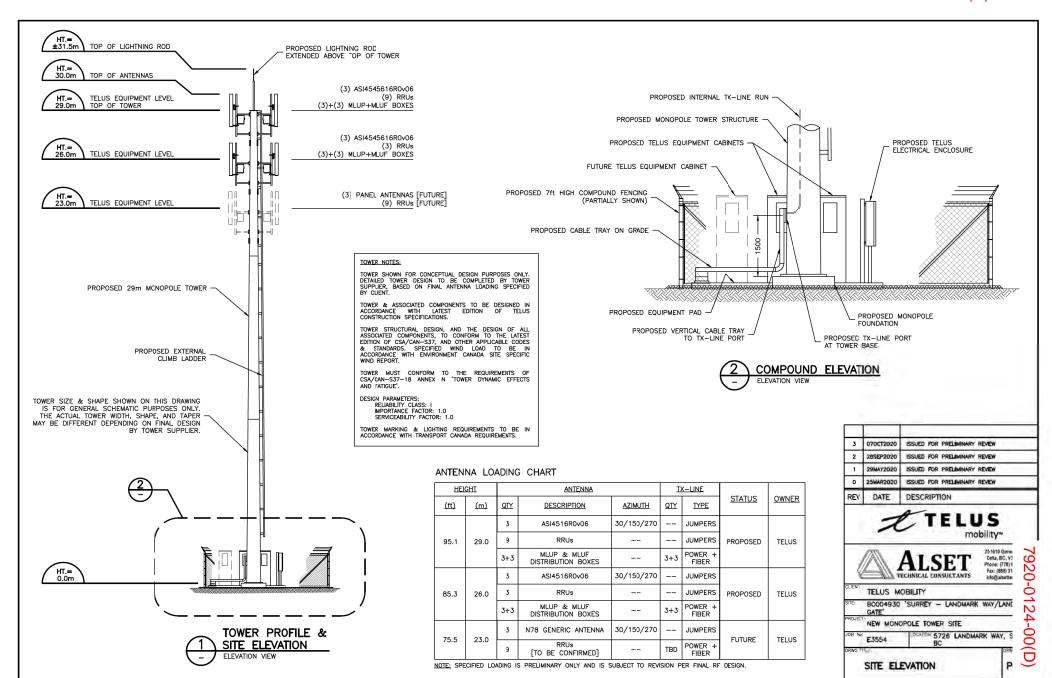
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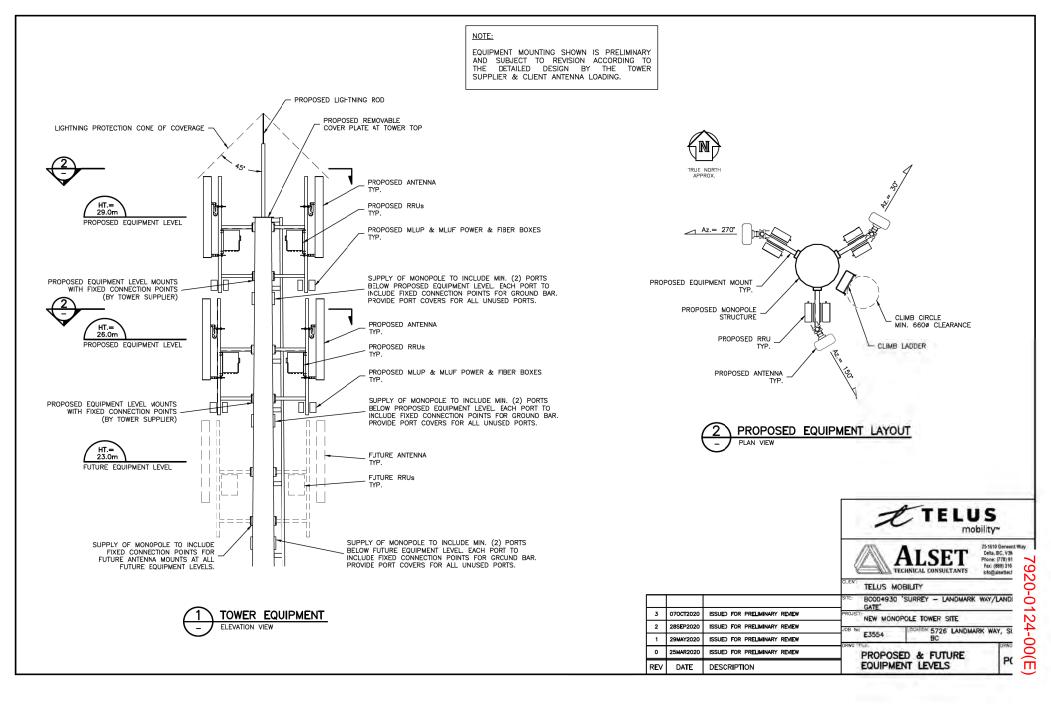
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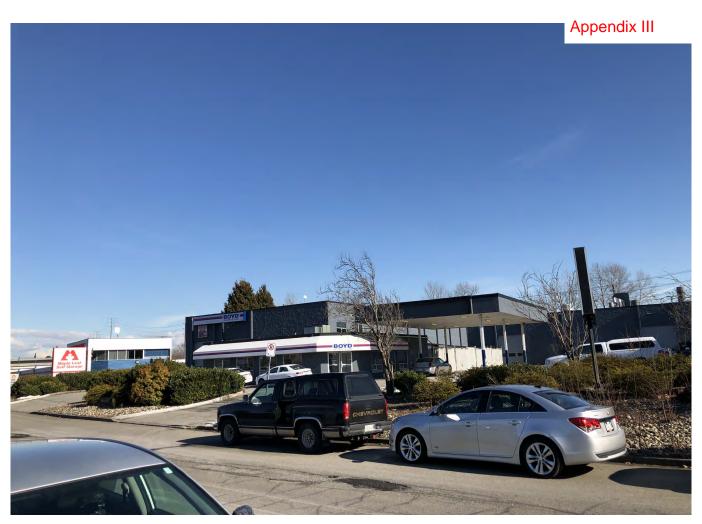
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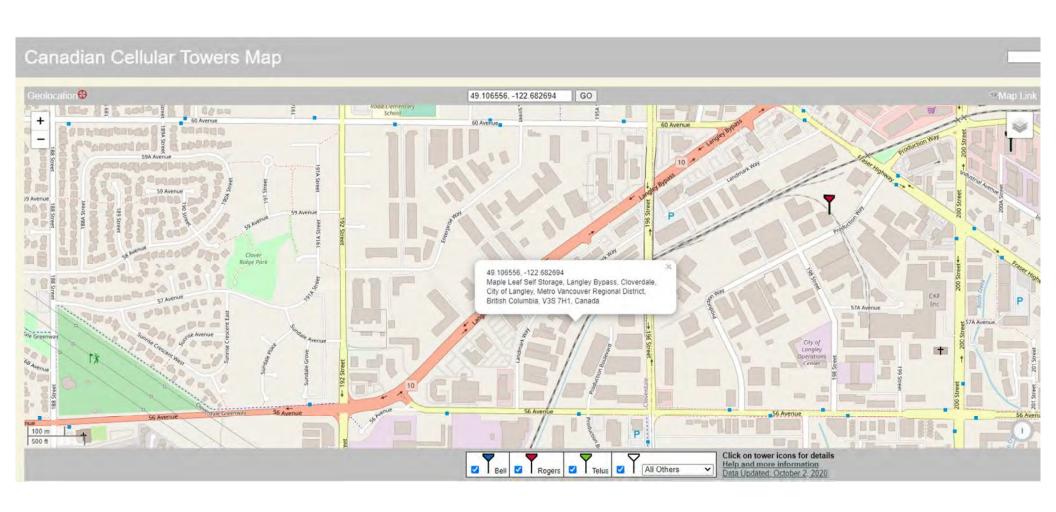






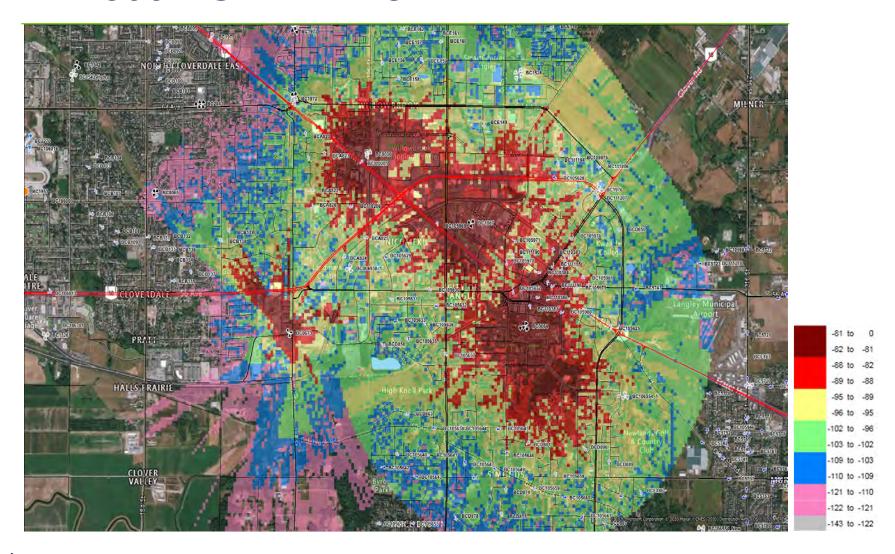








## LTE 800 RSRP BEFORE





## LTE 800 RSRP AFTER

