



Tower/Antenna Proposal Notice

Date: October 23, 2023
Site: 3216 Highway 11 North, North Bay, ON
City of North Bay
Contact: Adam Curran
Policy & Business Development Planner
City of North Bay

Spectrum Telecom Group Ltd. (Spectrum Group) Group is proposing to install a 29.3-meter (96-foot) self-support antenna/tower mast in the north end of the city at 3216 Highway #11 North. The tower will be established on privately owned commercial lands.

The purpose of this notice is to advise the City of North Bay of the proposal and initiate the consultation process with goal of achieving the necessary municipal consent and approvals.

The information contained in the remainder of this notification meets the requirement for providing notification information as outlined in section 7 of the City's tower/antenna policy document (effective November 25, 2013).

7.1.1 Site Selection/Justification

Over the years, Spectrum Group has received requests for its broadband services from potential users located along Highway 11 in the north end of the city. The purpose of the proposed tower is to enable Spectrum Group to economically extend its services to a cluster of residences and commercial business operations in this area.

There are two existing towers in the area, one being owned by Bell Mobility and located along Highway 11 about 3.5 kilometers to the north, and the other a Ontera tower located 2.2 kilometers to the south. A map is included as Attachment #1 which shows the proposed tower site in relation to these towers. In both cases, the fees charged for collocating on these towers is very high and would not allow Spectrum Telecom to provide Internet services to clients in the area at reasonable cost. Consequently, the use of these towers was ruled out based on the business case. Alternatively, a low-profile light duty tower is being proposed at the preferred site.

The tower has a relatively low profile when compared to other structures in the area, including the two towers referenced above. However, concurrent with this submission, clearance forms will be submitted to Transport Canada and NAV Canada to have the antenna mast assessed as an aviation obstruction. Spectrum Group will comply with any requirements to mark the tower if it's deemed necessary.

7.1.2 Site Plan

Attachment #2 includes a section of block map that shows the location of the property. Attachment #3 is a site plan that shows the relative position of the buildings on the property and proposed location of the antenna mast. The geographical coordinates of the mast are: **46.35978°, -79.46647°**.

7.1.3 Design and Visual Renderings

A design drawing of the antenna mast is included as Attachment #4. Attachment #5 provides photographs of the landscape which were taken a short distance from the site

along Highway 11. Scaled estimates of the tower's profile have been superimposed on these images to show what the mast might look like after being installed on the property.

7.1.4 Distance to Residential Property

The map included as Attachment #6, shows the horizontal distance between the proposed site and the nearest property that is thought to be used for residential purposes (being approximately 40 meters).

7.1.5 Prescribed Consultation Distance

Attachment #6 also shows the 120-meter horizontal consultation radius from the tower. Property boundaries within this radius are shown.

7.1.6 Property Ownership

The property is owned by 2324759 Ontario Inc. The PIN for the subject property is 49127-0546(LT). A commercial business operating as Independent Tire Service is located on the property.

7.1.7 Health Canada Safety Code 6

The antennas installed on the tower mast do not expose the public to harmful levels of RF energy and will be installed and operated on an ongoing basis to comply with Health Canada's Safety Code 6, including combined effects of the local spectrum environment.

7.1.8 Building Permit

Upon completion of this consultation process, and before any construction begins, Spectrum Group will apply for a building permit.

7.1.9 Consultation Fees

A cheque in the amount of \$1,600 (plus HST) will be submitted with this submission to cover administrative fees associated with the consultation process. This fee should be confirmed by the city.

Kindly review this proposal and please let us know if further consultation steps are required.

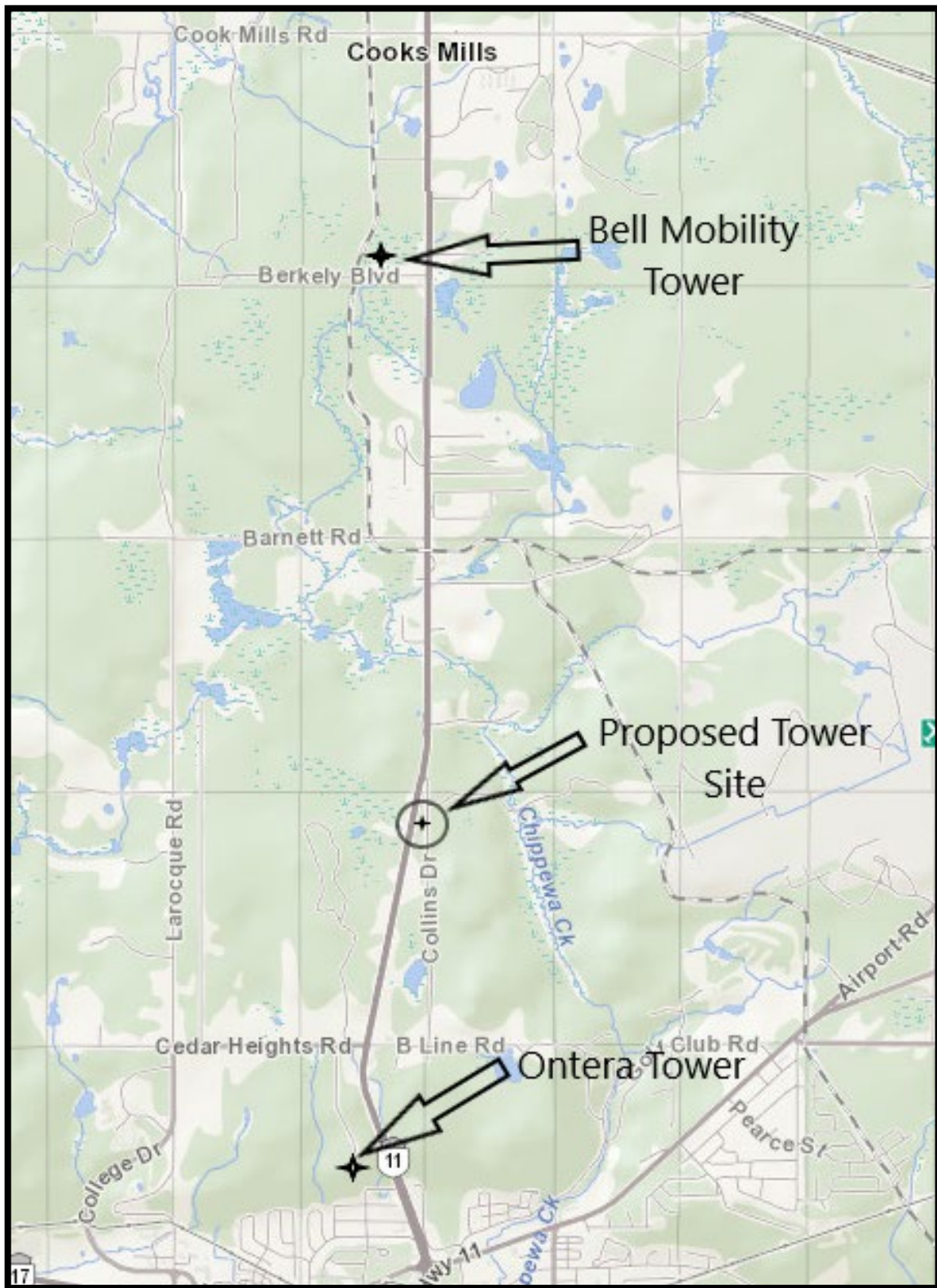
Should you have any questions or require further information about this proposal, please contact the undersigned.

Sincerely,

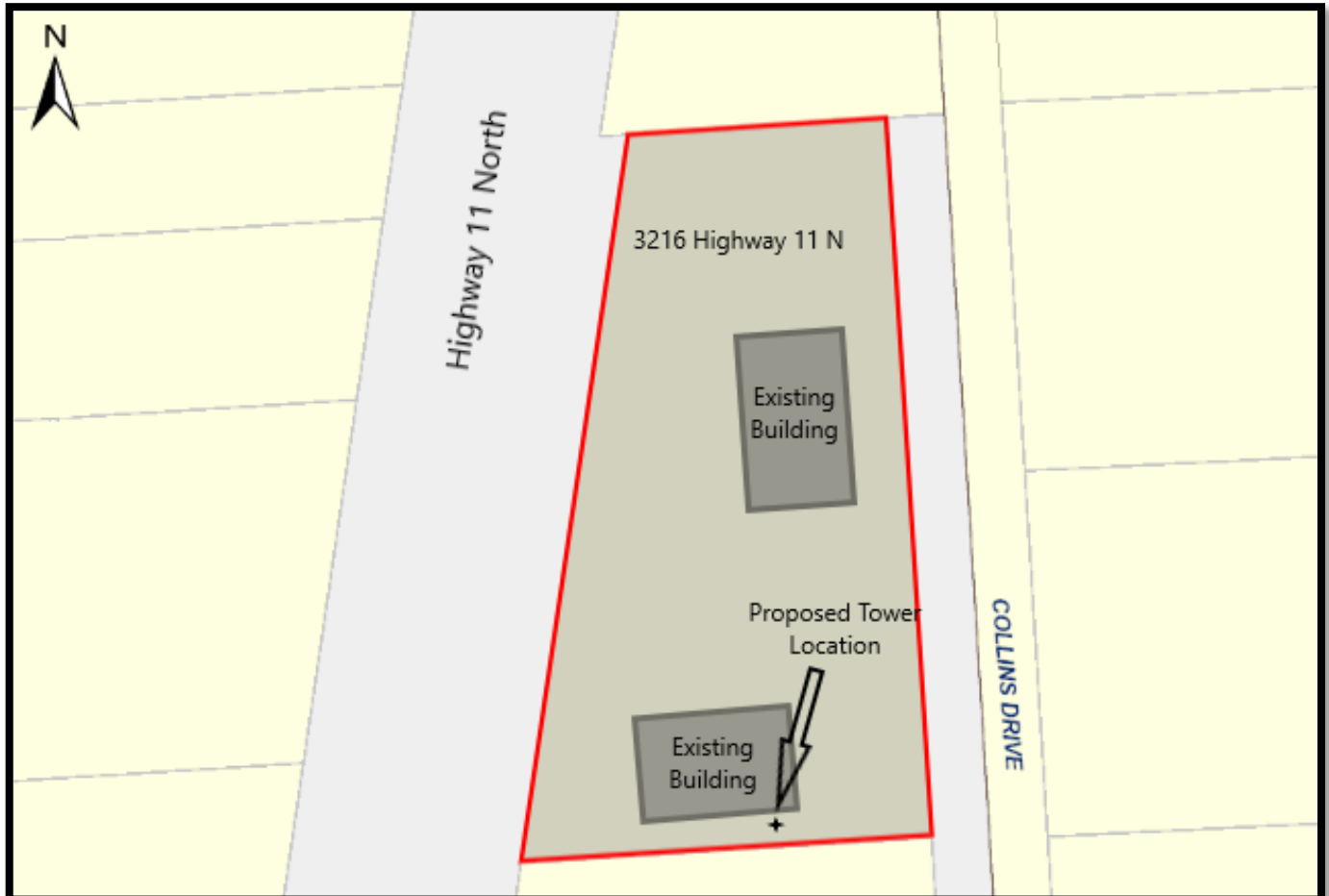
*Wayne Lynch
Project Manager
Spectrum Telecom Group*

*(705) 474-6368, extension 414
wlynch@spectrumtelecom.ca*

Site Key Map

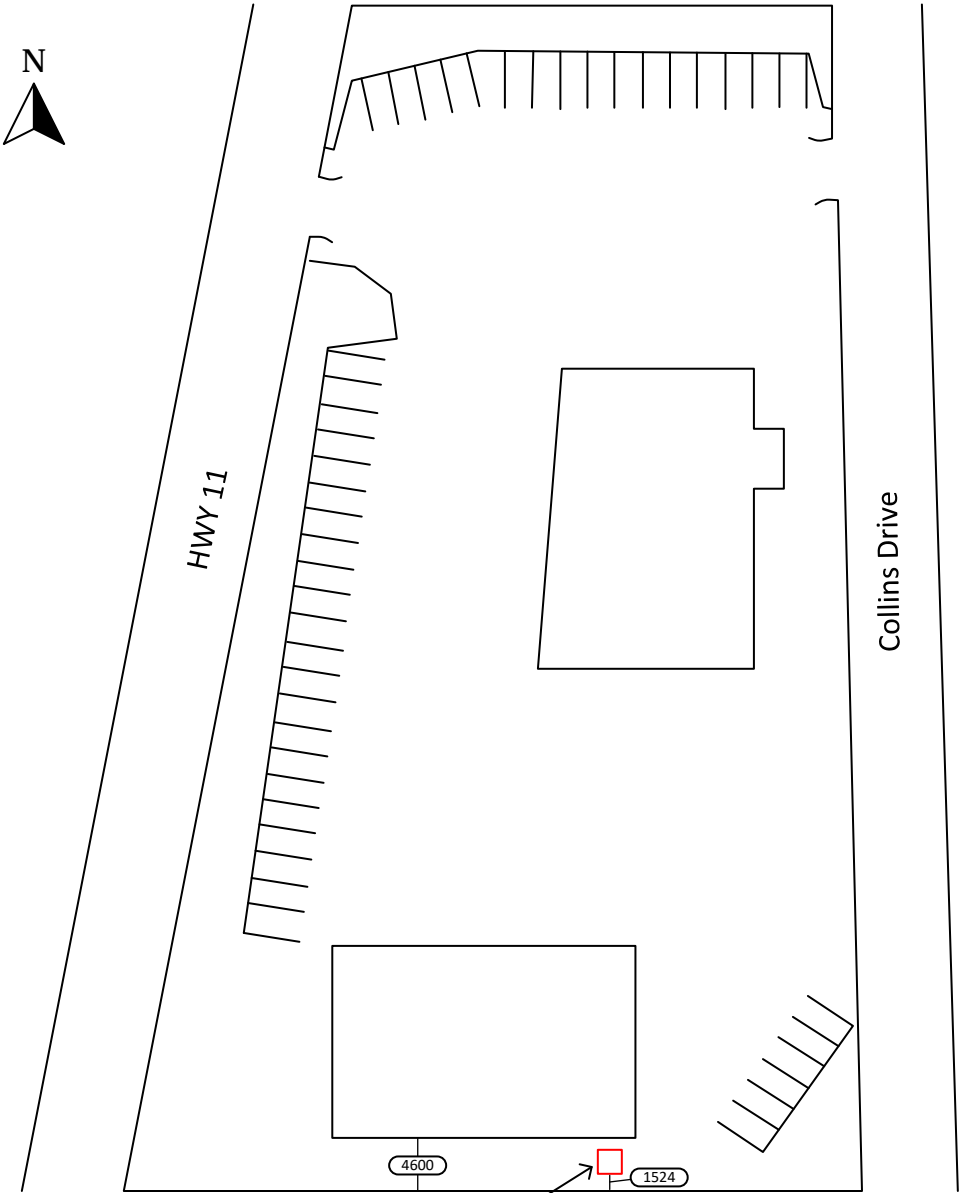


Property Map and Description




Note: Position of tower on property is approximate.

Tower Coordinates (approximate):	Lat 46.35978 deg. N; Long. -79.46647 deg. W
Civic Address:	3216 Highway 11 North, North Bay ON
Property Identifier (PIN):	49127-0546 (LT)
Property Description:	PCL 4680 SEC WF; PT LT 21 CON A WIDDIFIELD AS IN LT67155 EXCEPT PT 16, 36R8826; S/T LT343510; NORTH BAY; DISTRICT OF NIPISSING



Proposed Tower location

Note: Dimensions are approximate in centimeters

 SPECTRUM GROUP	TITLE	DRAWN BY	DATE
	Independent Tire DESCRIPTION	Dan Lavoie	7/31/23
Independent Tire T200 Tower			

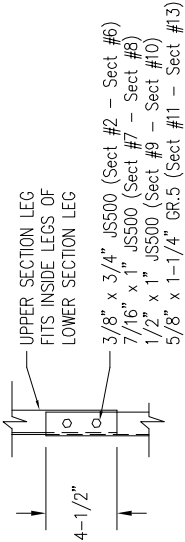
96' T200 TITAN TOWER

(P/N 4.95.0211.000)

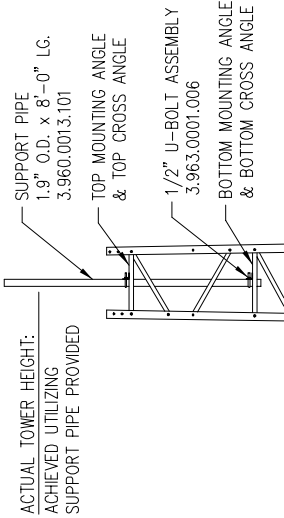
9" c/c	TOP SECTION #2
12" c/c	SECTION #3
15" c/c	SECTION #4
18" c/c	SECTION #5
21" c/c	SECTION #6
24" c/c	SECTION #7
27" c/c	SECTION #8
30" c/c	SECTION #9
33" c/c	SECTION #10
36" c/c	SECTION #11
39" c/c	SECTION #12
42" c/c	SECTION #13
45" c/c	

MAXIMUM ALLOWABLE ANTENNA AREA			
SURVIVAL DESIGN NO ICE (ROUND/FLAT)			
70mph WIND	85mph WIND	100mph WIND	
15/10 (sqft)	3/2 (sqft)	--/--	

SECTION SPLICE

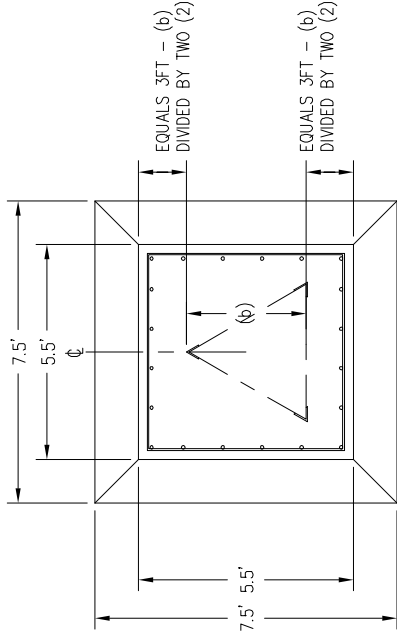


TOP ELEVATION

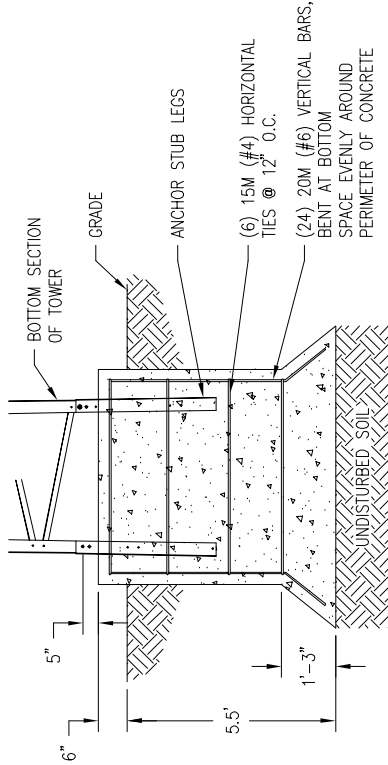


- NOTES:
- 1) PRE-ASSEMBLED PART NUMBER 4.95.0211.000.
 - 2) MAX. ANTENNA LOADS ARE CENTRALLY LOCATED AND BALANCED, 3FT OR LESS ABOVE THE TOWER TOP.
 - 3) "SURVIVAL" DESIGN IN NOT THE SAME AS EIA-222. FOR EIA COMPLIANCE SEE OUR SUPERTITAN MODELS.
 - 4) MINIMUM 32ksi YIELD FOR ALL COMPONENTS.
 - 5) CONSTRUCTED FROM PASSIVATED G-90 COAT GALVANIZED STEEL SHEET.
 - 6) TOWERS COME ASSEMBLED IN 8FT SECTIONS.
 - 7) TOP SUPPORT PIPE IS INCLUDED.
 - 8) FOR OPTIONAL ROCK BOLT FOUNDATION SEE DWG 000001.610.0033 AND 000001.610.0021.

FOUNDATION DESIGN (NORMAL DRY SOIL)



Tower foundation design may not be exactly as shown.



FOUNDATION LOADS:
MAX. OVERTURNING MOMENT (K*FT) = 105.00
MAX. SHEAR (kips) = 3.0
DESIGN UPLIFT PER INDIVIDUAL LEG (kips) = 32.0

CONCRETE VOLUME:
7.0 CUBIC YARDS

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CUSTOMER:	SITE:	SCALE:	145,000
DATE:	BY:	MRH	CHK:
08 MAR 07			CR
TITLE:	ISSUED FOR DISTRIBUTION	5 APR 07	APR:
			JB
96' T200 TITAN TOWER	DRAWING NO.	000001.610.0106	

Visual Renderings

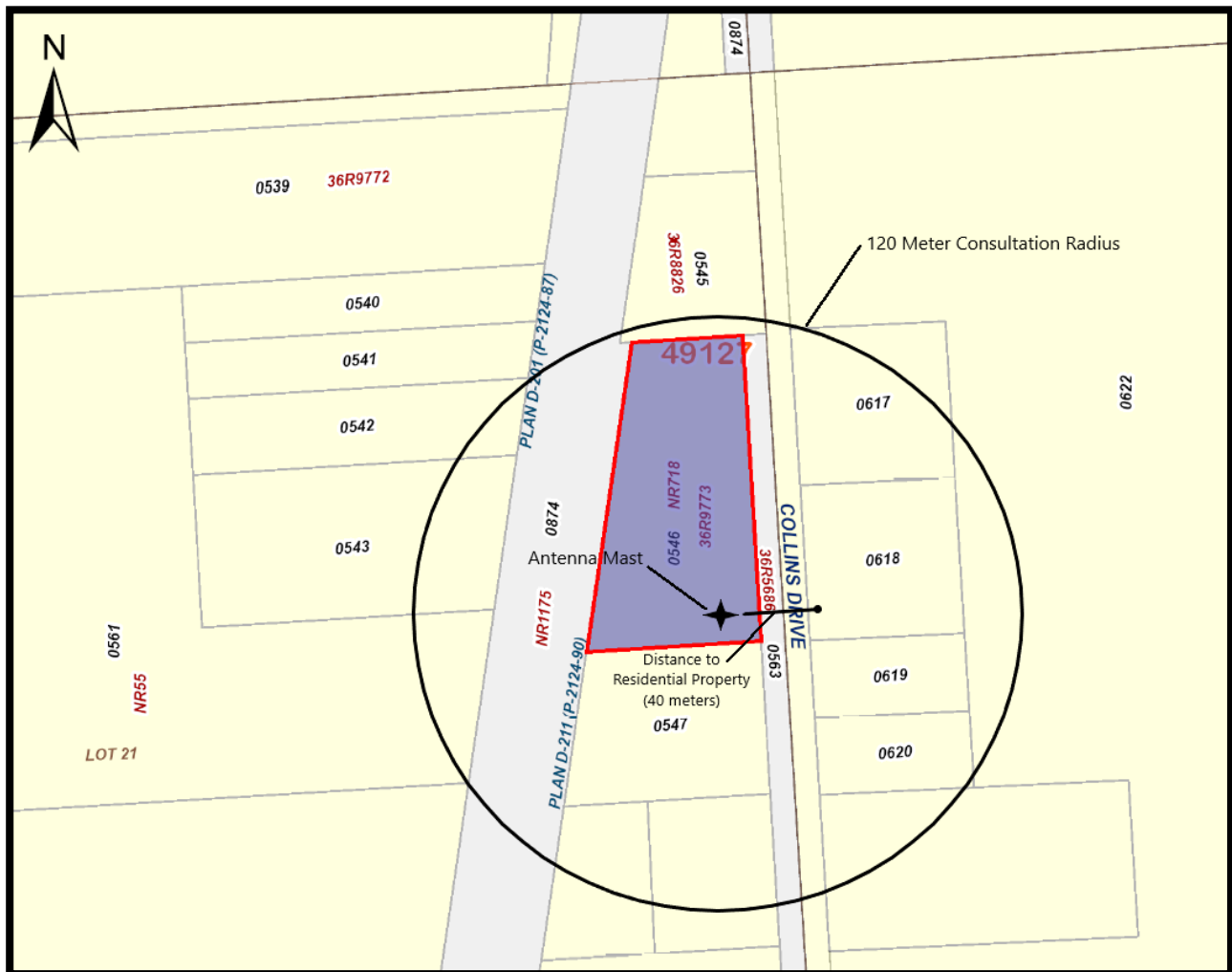
Figure 1: Simulated Image of Antenna Mast Superimposed on Landscape (at 200 meters from site on Highway #11 looking south)



Figure 2: Simulated Antenna Mast Image Superimposed on Landscape (at 300 meters from site looking north on Highway #11)



Consultation Distance Map



Coordinates of Mast: 46.35978, -79.46647

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