FB CONNECT
A FORBES BROS COMPANY
Tel: (905) 928-9481
Fax: (888) 622-4939
482 South Service Road East, Suite 130
Oakville, Ontario L6J 2X6
www.forbesbrosltd.ca

May 19, 2021 Sent via email

Adam Curran, Planner
Policy & Business Development
City of North Bay
200 McIntyre St. E., PO Box 360
North Bay, ON P1B 8H8

Client: **Rogers Communications Inc.**
Re: **Information Package – Proposed Tower Type Change**
Site ID: **C7863 – Airport Rd. & Carmichael Dr.**
Address: **990 Airport Road, North Bay**

Mr. Curran,

FB Connect on behalf of Rogers Communications Inc. is submitting this information package to the City of North Bay for Rogers proposed tower type change of their 45m shrouded monopole to a 45m shrouded lattice tri-pole at 990 Airport Road, North Bay.

Rogers previously proposed the 45m shrouded monopole to improve their wireless services in the area. The shrouded design was proposed in consideration of North Bay's policy since it would be located within 120m of a residential area.

Public consultation was completed that consisted of a mail notification to all nine (9) property owners within 120m of the proposed 45m shrouded monopole as well as a public notice in *The North Bay Nugget* that provided 30 days' notice a public information session. There were no attendees at the public information session or submissions received and Council passed resolution 2020-62 on February 26, 2020 to provide concurrence.

Rogers has been advised that the proposed 45m shrouded monopole is structurally inadequate as the smooth un-interrupted circular section of the shroud will experience a Vortex-Shedding phenomena that will induce vibrations to the structure and apply fatigue stresses at splice locations. Given the very tall structure, the vibrations might be excessive and a typical vibration mitigation device (damper) might not be enough to balance out the wind induced vibrations.

Rogers is proposing to install a 45m shrouded lattice tri-pole (LTP) instead of the 45m shrouded monopole. The body of the tower is lattice (galvanized steel, unpainted) and the diagonal bracing of the legs of the tower is not affected as much as the shrouded monopole. The top of the tower has a white shroud which the equipment is located within. The 45m shrouded LTP would be within the same compound area (5m x 7m) and would have a face width about 2.4m-3m (TBD with engineering).

North Bay's policy allows shrouded towers within 120m of residential area to not be designed for future co-location capacity. The additional benefit of the proposed 45m LTP is that it will allow greater co-location capacity compared to a shrouded monopole which has limited internal space.

Included in this information package are the following:

- photo renderings of the previously proposed 45m shrouded monopole and the proposed 45m LTP.

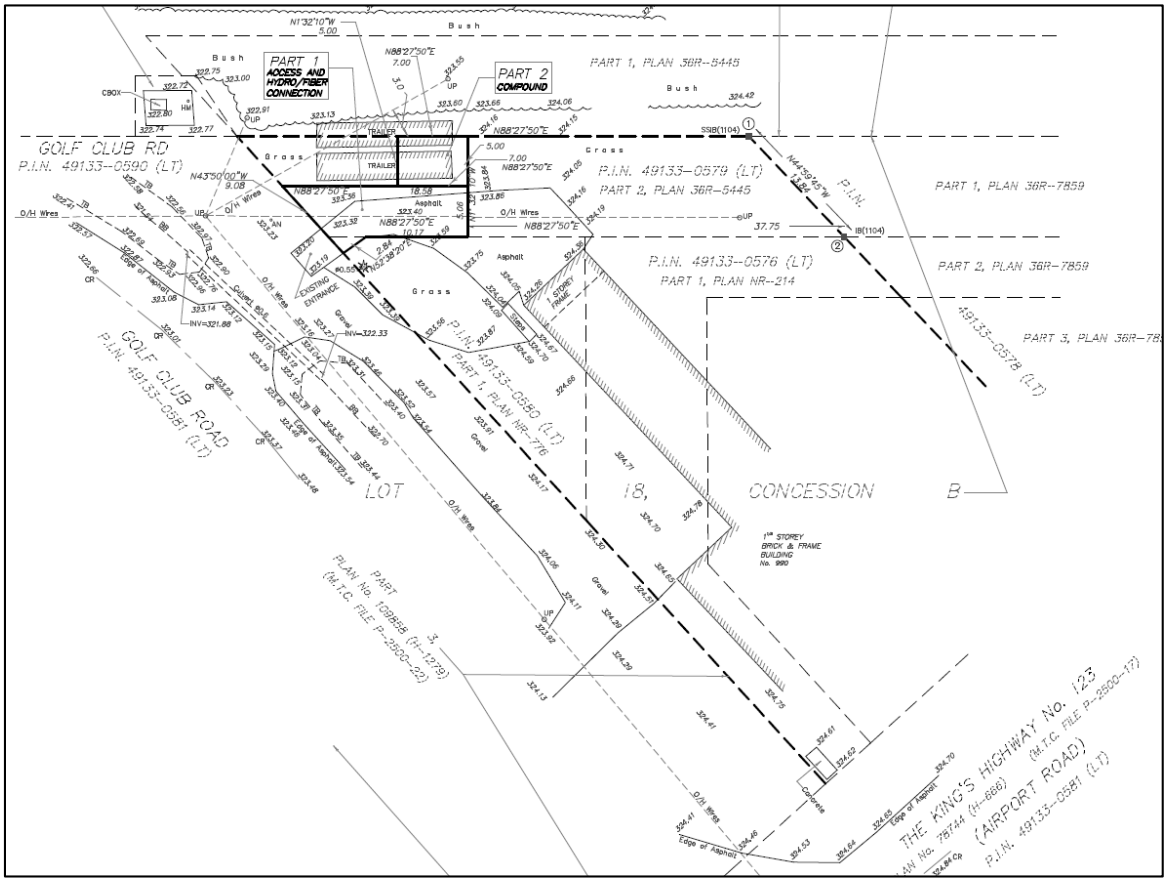
Could Council consider the request to amend or provide a new concurrence for Rogers to proceed with the proposed 45m shrouded lattice tri-pole instead of the 45m shrouded monopole due to the structural inadequacy and the additional benefit it will increase co-location capacity.

Sincerely,

Jay Lewis
Real Estate & Municipal Affairs
FB Connect

Site Location

Aerial Image – Rogers Proposed 45m Shrouded Lattice Tri-Pole



Portion of the Subject Property Survey

Photo Rendering

Aerial Reference for Photo Rendering

Photo – Existing Condition

Photo Rendering – Previously Proposed 45m Shrouded Monopole

Photo Rendering – Proposed 45m Lattice Tri-Pole