March 02, 2021

Chris Frotten, Chief Administrative Officer
Municipality of the District of Barrington
2447 Highway 3
P.O. Box 100
Barrington, NS, B0W 1E0
Via email: cfrotten@barringtonmunicipality.com

Dear Mr. Frotten

Subject:	**Information Package** **Proposed Telecommunications Tower**
Address:	**Stirls Road, Barrington Passage, NS**
PID#:	**80053101**
Coordinates:	**43.52632N, 65.62538W**
Bell Site Reference:	**Site #8077: Barrington Passage**

WSP Canada Inc. is representing Bell Mobility Inc. ("Bell") in the land use consultation for the installation and operation of a radiocommunications facility. As the property is located within the limits of the Municipality of the District of Barrington, the Municipality has jurisdiction over the property and are considered the Land Use Authorities.

Bell is seeking a new location for a 110-meter guyed Bell tower installation to provide improved wireless data and voice communication services to Bell customers in the Municipality of the District of Barrington.

This Information Package is to provide detailed information on the new telecommunications tower required to improve wireless service to the area and to invite comment from the Municipality as part of the consultation process. The purpose of this proposed tower is to respond to the rapid growing demand for wireless data communication products, such as mobile broadband and video service for use on smartphones, computer tablets and laptops. With the growing wireless traffic, dependable service availability has diminished and will continue to diminish until additional wireless telecommunication infrastructure is installed to relieve this network capacity issue. This infrastructure is essential to providing equitable access to online services for residents, businesses, visitors and travellers through the Municipality.

As per Innovation, Science and Economic Development Canada (formally Industry Canada) consultation guideline, please consider this information package the official commencement of a 120 day consultation process. Bell is committed to working with the Municipality of the District of Barrington and the community

to improve wireless services in the area. If you require anything further, please do not hesitate to contact us at (902) 536-0928 or directly by e-mail at Jessica.Harper@wsp.com.

Sincerely,

Jess Harper
Planner, WSP Canada Inc.
Agents for Bell

cc: Chris Fourgnaud, Bell Mobility

Subject: **Information Package**
Proposed Telecommunications Tower

Address: **Stirls Road, Barrington Passage, NS**
PID#: **80053101**
Coordinates: **43.52632N, 65.62538W**

Bell Site Reference: **Site #8077: Barrington Passage**

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1. Proposed Location

Bell Mobility Inc. is proposing to locate a new 110m guyed telecommunications tower in the Municipality of Barrington, located approximately 120m from the end of Stirls Road, and approximately 510m north of Highway 3. The site is immediately bounded by wooded area. There is self-storage facility located 130m to the east of the site. The Fresh Brook watercourse also meanders approximately 115m to the north and approximately 115m to the west of the tower.

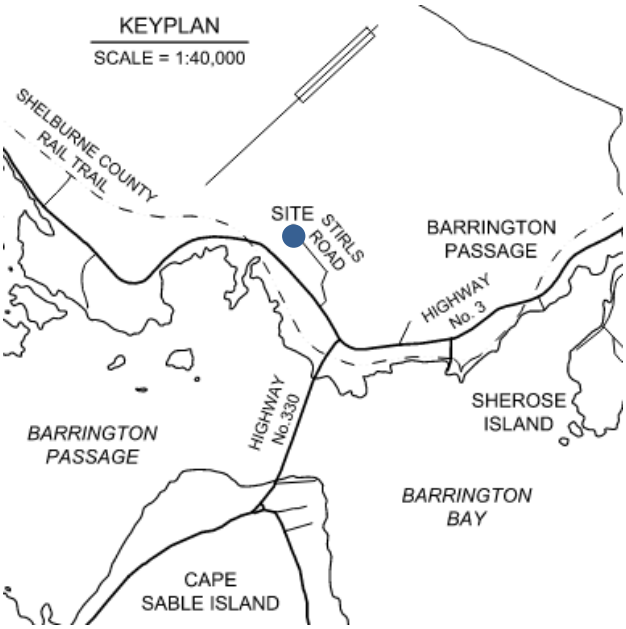


Figure 1: Proposed Tower Location

The property is currently owned by the Municipality of the District of Barrington and Bell will be leasing the land from the municipality for the placement of the tower. Bell has determined that this site would be a suitable location as the it contains the required land area for the tower. The site is within the boundaries of the Municipality's Land Use By-law (2013) with the property zoned Business Park (BP). It should be noted that radio installations are federally regulated and do not need to adhere to local or provincial zoning by-law regulations. As the property is located within the limits of the Municipality of the District of Barrington, the Municipality has jurisdiction over the property and are considered the Land Use Authorities for the site.

In selecting the proposed location, a number of other sites were also considered:

a. **Evaluation of Existing Structures.** As required by Innovation, Science and Economic Development Canada – ISED (formally Industry Canada), before a new free-standing tower is proposed, a telecommunications carrier must make best efforts to evaluate any existing structures, towers or rooftops, that may be available to support new equipment or to use for co-location. After careful examination, it has been determined that there are no existing structures located within proximity to the proposed site that meet the location requirements to provide

necessary coverage and capacity for the operations of Bell's network. Two Bell towers are located within proximity (J0471 and J0091) but neither posses the height required to provide coverage and capacity to the proposed area.

b. **Alternative Sites Considered.** Other properties were investigated by Bell but were not feasible for hosting new telecommunications equipment for various reasons. Additional sites considered during the investigation were a commercially zoned parcel of land abutting a No Frills on the south side of Highway 3 (PID: 80052608), a property located behind a carwash on the north side of Highway 3 (PID: 80052475), and a forested parcel of land behind a long commercial strip building on the north side of Highway 3 (PID: 80052400).

2. Wireless Coverage

The coverage maps below demonstrate the existing wireless high band frequency coverage provided by the existing towers in proximity to the area, as well as the planned improvements provided by the proposed tower. Distance and topography play an important role in determining coverage in this portion of the county.

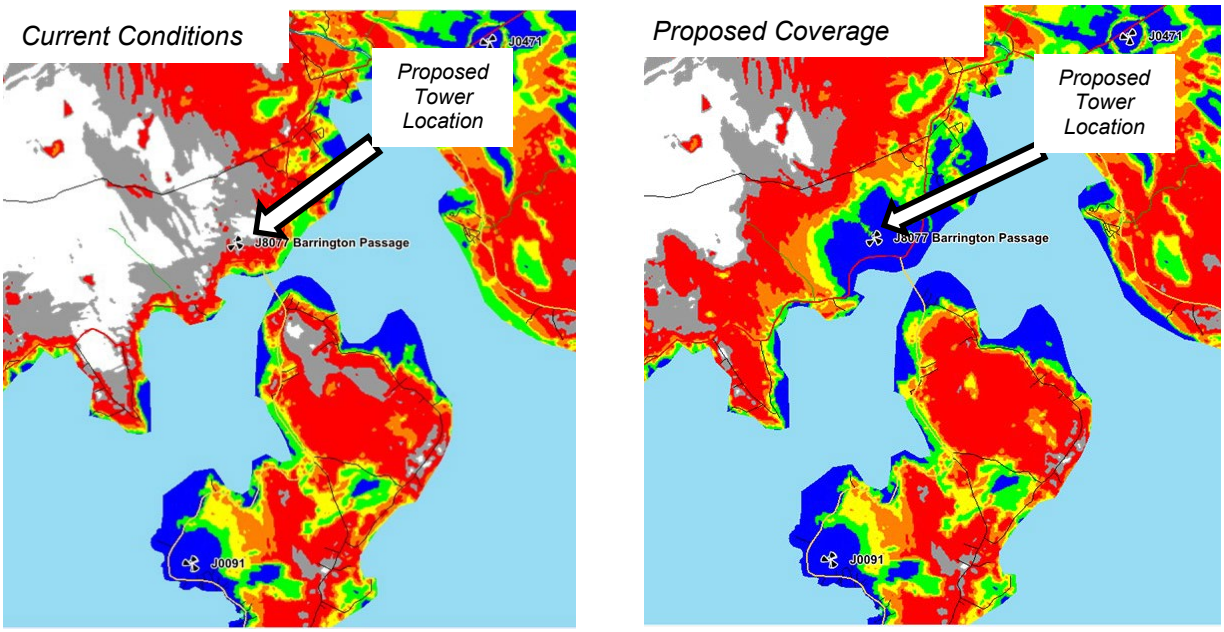


Figure 2 and 3: Coverage Maps (blue represents very good coverage; green represents good coverage; yellow represents ok coverage; red represents poor coverage; and grey represents no coverage)

3. Proposed Design

To enhance wireless and cellular service, Bell is proposing to install a 110-meter guyed tower and radio equipment cabinet, located on PID 80053101 to support a new radio-communications facility that will service the area. The land is immediately surrounded by wooded area. The tower will have direct frontage and will be accessed from Stirls Road (as shown in the attached drawings). Bell has planned for 9 initial antennas to be placed on the tower and anticipates the addition of 6 future antennas.

Structure Details:

Height	110m
Design Type	Guyed Tower
Distance to Nearest Building	Approx. 130m
Distance to Street	Approx. 120m from Stirls Road Approx. 510m from Highway 3

ISED requires wireless carriers to consider co-location on existing structures wherever possible to limit the number of tower structures required in any given area. As mentioned above, there are no suitable structures located in the service area. Bell would accept applications from other carries to co-locate in the future on this proposed tower, if there is interest. The proposed tower will be designed to accommodate more than one carrier.

Bell has completed preliminary plans (see **Appendix 1: Site Plan and Elevation**) as well as photo simulations (see **Appendix 2: Photo Simulations**). The tower and cabinet will be enclosed by a chain-link fence with a locked gate preventing public access to the site and equipment. The proposed design has received approval from Transport Canada who have indicated that day and night protection is required on the proposed guyed tower. An application has been made to NAV Canada and we expect to hear their comments in the weeks to follow.

Bell has made efforts to minimize the visibility of the telecommunications tower by having the tower set far back from the main commercial road Highway 3.

Bell will consider comments from the Municipality of the District of Barrington in regard to the proposed telecommunication tower location and design.

4. Public Consultation Process

Although ISED has exclusive jurisdiction in the licensing of radiocommunication sites, such as the proposed tower, ISED also requires proponents to consult with the local land use authority and the public.

As the Municipality of Barrington defers to ISED's *Default Public Consultation Process* public consultation process (as described in ISED's circular, CPC-2-0-03, commonly referred to as the "CPC") Bell will carry forward with public notifications as prescribed in this protocol. Information on this consultation process may be found on-line at:

http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08777.html

To engage the community to bring forth any comments and questions in regard to the proposed tower site, the CPC requires Bell to contact all property owners in writing within three times the tower height (the notification area is 330 meters as the height of the tower is 110 meters) through the issuance of a notification package to invite the public to comment on the proposed site for a minimum of a 30-day period. Bell would like to commence notification the week of March 01, 2021. For your consideration,

attached please find a draft notification package in **Appendix 3: Draft Notification Package** for your review and comment.

Under the CPC, during the comment period, Bell is required to acknowledge receipt of any comments or questions within 14 days. Bell will then address all reasonable and relevant concerns within 60 days. The commenting party has a further 21 days to reply to Bell, after which the comment period will close.

At the conclusion of the consultation process, Bell will prepare and submit to the Municipality of the District of Barrington a summary of comments received from the community and the replies provided by Bell.

5. Concurrence Requirements

Although Bell is exclusively regulated by the Federal Government, ISED requires Bell to consult with the local land use authority as a commenting body in the siting of antenna support structures. As a form of comment, Bell will be seeking support or concurrence from the Municipality of the District of Barrington in the form of a Resolution, Minutes of a committee meeting or Council and/or a letter that addresses the following items:

- The Municipality of the District of Barrington is satisfied with Bell's consultation process, as outlined in ISED's *Default Public Consultation Process*;
- The proposed design and location are acceptable;
- That the Municipality of the District of Barrington has been consulted and concurs with the tower location.

If you would like some examples of either a letter or resolution we can provide these to you and work with you to develop one that works with the Municipality of the District of Barrington and ISED requirements.

6. Health and Safety Compliance

The installation and operation of the proposed tower will be compliant with the following safety standards:

a) Safety Code 6

Bell attests that the proposed tower will at all times comply with Health Canada's Safety Code 6 which limits the public's exposure to radiofrequency electromagnetic fields (EMF) and ensures public safety (see **Appendix 4: Safety Code 6 Attestation Letter**). This code is based on current, accepted scientific data. Additional information on health and safety may be found on-line at:

http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/h_sf01702.html

Safety Code 6 takes into account all RF emissions in the area to ensure levels in EMF energy operate within the safety limits. Safety Code 6 exposure limits are not device

specific, but the limits do take into account the total exposure from all sources of RF energy.

For more detailed information on Safety Code 6, please see:

https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/radiation/safety-code-6-health-canada-radiofrequency-exposure-guidelines-environmental-workplace-health-health-canada.html

b) Environmental

There are no known environmental restrictions for this proposed site location.

c) Engineering Practices

Bell attests that the proposed tower will be constructed in compliance with all applicable building standards and comply with good engineering practices including structural adequacy.

d) Transport Canada's Aeronautical Obstruction Marking Requirements

Bell attests that the proposed tower will be in compliance with Transport Canada and NAV Canada aeronautical safety requirements. The proposed design has received approval from Transport Canada who have indicated that day and night protection is required on the proposed guyed tower. An application has been made to NAV Canada and we expect to hear their comments in the weeks to follow.

7. Conclusion

Bell is seeking to improve high speed wireless service to the Municipality of the District of Barrington's residents, visitors, businesses and to provide a more connected network across Nova Scotia. In order to provide optimal service, Bell is proposing the construction of a new telecommunications tower. After investigating the area, reviewing local regulations and considering Bell's technical requirements, Bell finds the proposed infrastructure appropriate as it has taken into consideration the following:

- Is designed to provide high quality service to residents, visitors and businesses within the Municipality of the District of Barrington and surrounding area;
- Is located approximately 510 meters from main commercial road in the community (Highway 3);
- Is located approximately 130m from the closest building;
- Is well located due to the far setback off any major road and residential property and is positioned within a wooded area which serves as a visual screen from Highway 3;
- Is offering a guyed tower design which supports future co-location; and
- Is fully compliant with the telecommunication policy.

8. Contact Information

Bell Mobility
Attn: Jess Harper, Planner, WSP Canada Inc. – Agents for Bell Mobility
1 Spectacle Lake Drive
Dartmouth, NS, B3B 1X7
(902) 536-0928
Jessica.Harper@wsp.com

Innovation, Science and Economic Development Canada
Spectrum Management
50 Brown Avenue
Dartmouth, Nova Scotia, B3B 1X8
(902) 426-3810 or 1-855-465-6307
ic.spectrumnsd-spectredne.ic@canada.ca

APPENDIX 1

SITE PLAN AND ELEVATION

FRESH BROOK

175±

PID 82560954

LOT 1-2-C-E
(REMAINDER)

235±

GUYWIRE

PROPOSED
TOWER
LOCATION

GUYWIRE

190±

PID 80053101

PROPOSED
LEASE
PARCEL B

GUYWIRE

55±

70±

45±

30±

20±

PID 82571829

LOT 14

PID 82571837

LOT 15

STIRLS
ROAD

ZONE 5 - CM 64°30'W
NAD83(CSRS) - 2010.0

PID 80052988

SITE PLAN
SCALE = 1:1,250

PROPOSED TOWER CENTER

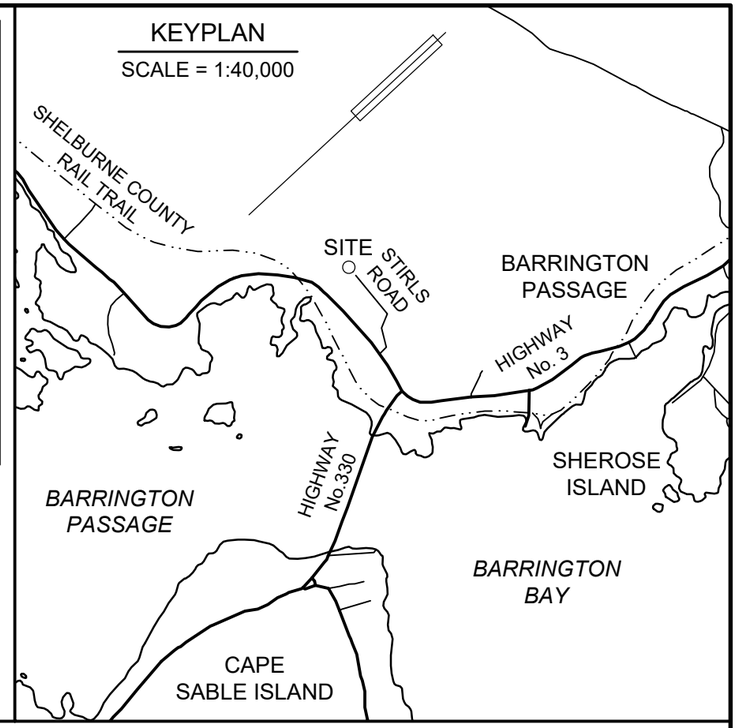
J8077
BARRINGTON PASSAGE

GEODETIC ELEVATION
TOWER BASE = 13m±

NAD83(CSRS)-2010.0
NORTH 4,821,326
EAST 25,409,032

NAD83(CSRS)-2010.0
LATITUDE 43.52632° N
LONGITUDE 65.62538° W

KEYPLAN
SCALE = 1:40,000



Bell

SITE PLAN OF PROPOSED LEASE PARCEL B

STIRLS ROAD
BARRINGTON PASSAGE
SHELBURNE COUNTY
NOVA SCOTIA

25 0 25 50

SCALE : 1/1,250 (METRIC)
DATE: JANUARY 19, 2021
DWG: 20-106-70
SHEET 1 OF 3

B.DAVISON
Surveying & Engineering Ltd.
1037 Avonview Drive, Hants Border, NS, B0P 1P0
p:902-352-2185 f:902-352-2186 c:902-240-9180
www.bdse.ca busterdavison@eastlink.ca

J8077 * BARRINGTON PASSAGE

AERIAL PHOTOGRAPH
PLAN VIEW
SCALE = 1:3,000

ZONE 5 - CM 64°30'W
NAD83(CSRS) - 2010.0

PROPOSED
LEASE
PARCEL B

TOWER
LOCATION
HEIGHT=110m

330m

STIRLS ROAD

PROPOSED TOWER CENTER

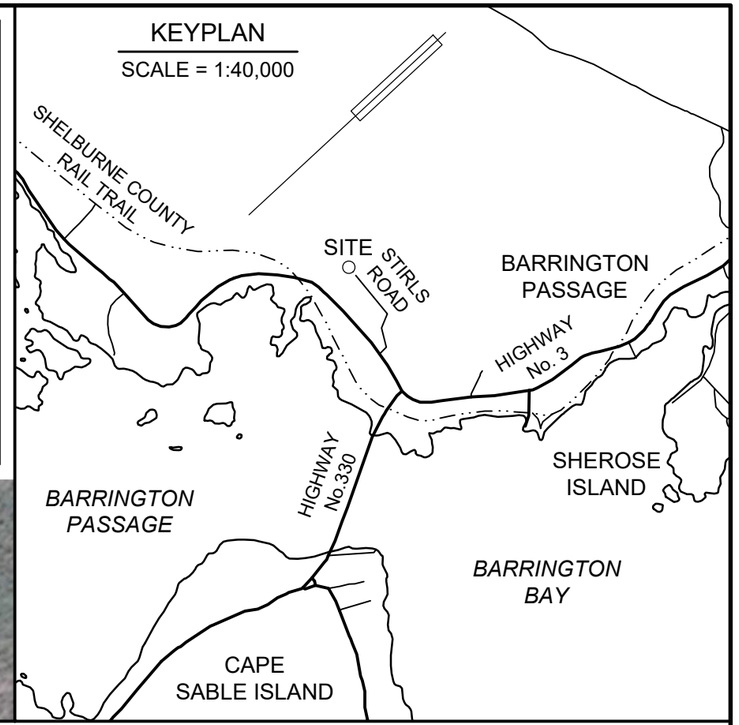
J8077
BARRINGTON PASSAGE

GEODETIC ELEVATION
TOWER BASE = 13m±

NAD83(CSRS)-2010.0
NORTH 4,821,326
EAST 25,409,032

NAD83(CSRS)-2010.0
LATITUDE 43.52632° N
LONGITUDE 65.62538° W

KEYPLAN
SCALE = 1:40,000



Bell

AERIAL PHOTOGRAPH PLAN VIEW OF PROPOSED LEASE PARCEL B

STIRLS ROAD
BARRINGTON PASSAGE
SHELBURNE COUNTY
NOVA SCOTIA

60 0 60 120

SCALE : 1/3,000 (METRIC)
DATE: JANUARY 19, 2021
DWG: 20-106-70
SHEET 2 OF 3

B.DAVISON
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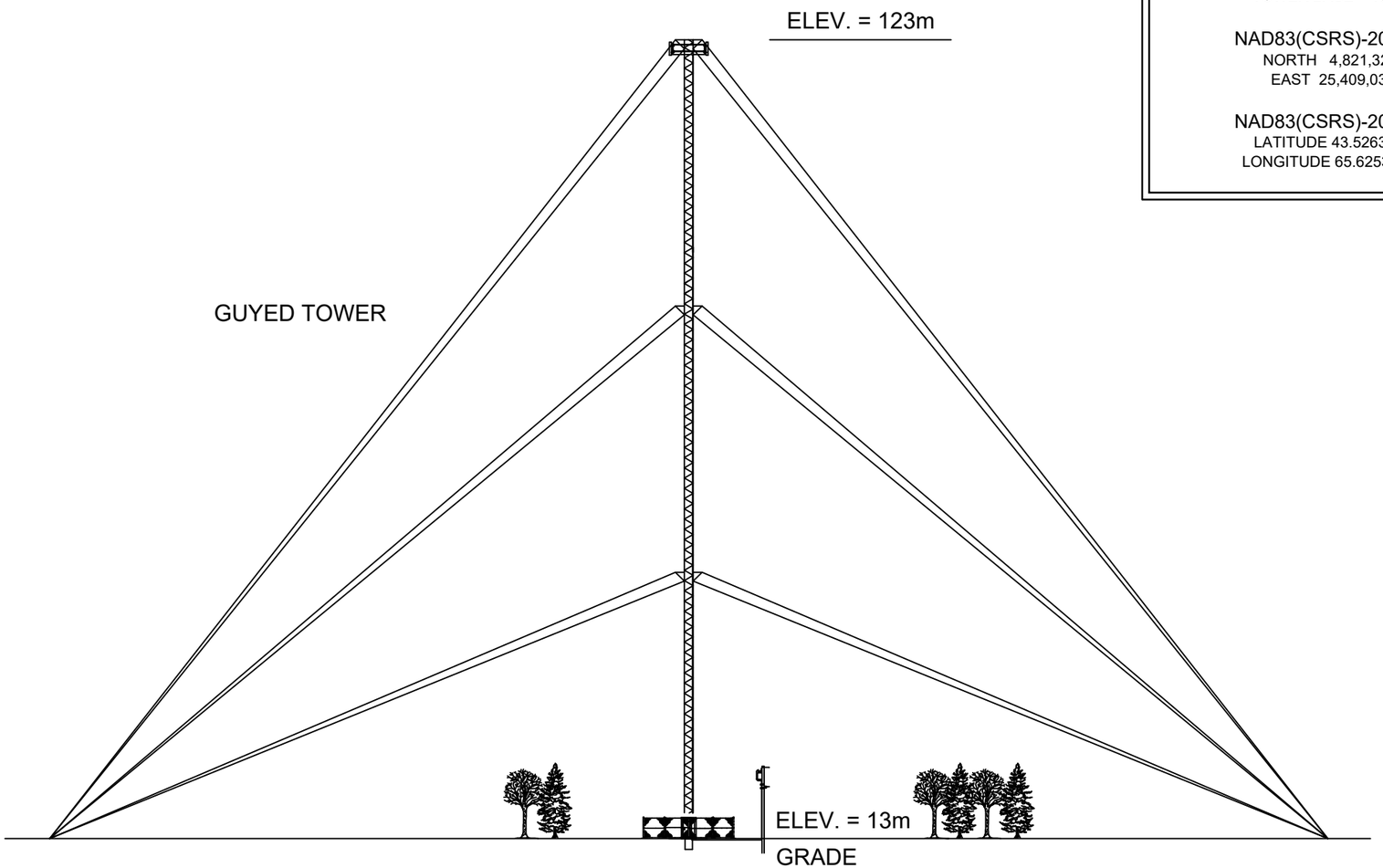
J8077 * BARRINGTON PASSAGE



TOWER ELEVATION VIEW - LOOKING WEST

SCALE = 1:750 (METRIC)

PROPOSED TOWER CENTER

J8077
BARRINGTON PASSAGE

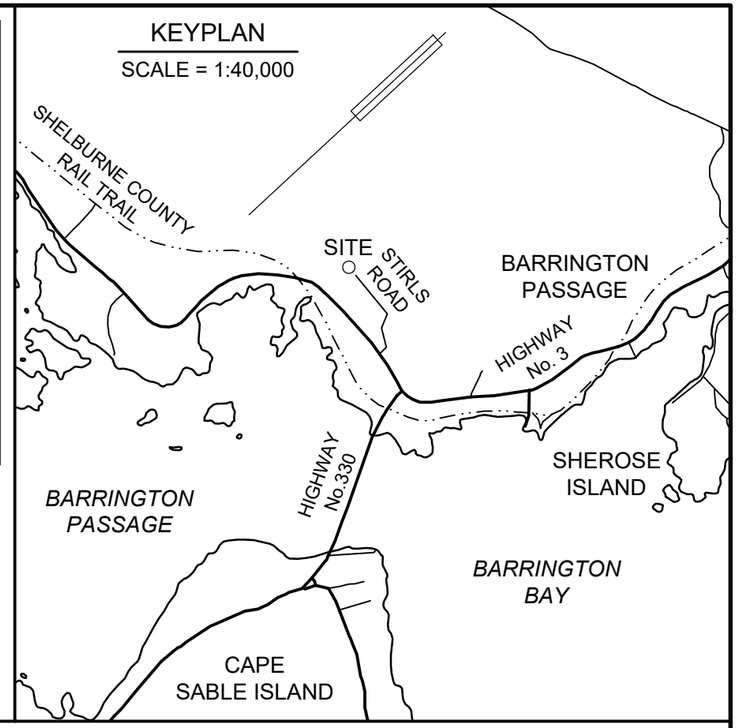
GEODETIC ELEVATION
TOWER BASE = 13m±

NAD83(CSRS)-2010.0
NORTH 4,821,326
EAST 25,409,032

NAD83(CSRS)-2010.0
LATITUDE 43.52632° N
LONGITUDE 65.62538° W

KEYPLAN

SCALE = 1:40,000



Bell

TOWER ELEVATION VIEW OF 110 METRE TOWER LOOKING WEST

STIRLS ROAD
BARRINGTON PASSAGE
SHELBURNE COUNTY
NOVA SCOTIA

15 0 15 30

SCALE : 1/750 (METRIC)
DATE: JANUARY 19, 2021
DWG: 20-106-70
SHEET 3 OF 3

B.DAVISON
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p:902-352-2185 f:902-352-2186 c:902-240-9180
www.bdse.ca busterdavison@eastlink.ca

J8077 * BARRINGTON PASSAGE

APPENDIX 2

PHOTO SIMULATION

PHOTO SIMULATION

Figure 1: Looking north-west, west of Highway 3 and Highway 330 Intersection

Figure 2: Looking north-west, east of Highway 3 and Stirl's Road Intersection

Figure 3: Looking north from Highway 3

Figure 4: Looking north-east, from the intersection of Highway 3 and Fresh Brook Drive

Figure 5: Looking north-east, west of Highway 3 and Fresh Brook Drive Intersection

APPENDIX 3

NOTIFICATION PACKAGE

Share your thoughts on Bell's proposed antenna tower. Our experts will answer your questions and address any feedback.

If you have specific questions about the proposed plans to upgrade the wireless network in your community, you can email your Bell representative, Jess Harper, ca-pcp@wsp.com or (902) 536-0928 by April 10, 2021.

For additional information about antenna systems, you can visit the government of Canada at www.ic.gc.ca/towers or you can contact:

Your Local Government Contact

Chris Frotten, Chief Administrative Officer
Municipality of the District of Barrington
2447 Highway 3
P.O. Box 100
Barrington, NS, B0W 1E0
Email: cfrotten@barringtonmunicipality.com
Telephone: (902) 637-2015

Your Industry Canada Contact

Spectrum Management
50 Brown Avenue
Dartmouth, Nova Scotia, B3B 1X8
(902) 426-3810 or 1-855-465-6307
ic.spectrumnsd-spectredne.ic@canada.ca

Jess Harper, Planner, WSP Canada Inc.
Agents for Bell Mobility
1 Spectacle Lake Drive
Dartmouth, NS, B3B 1X7

Important Information Enclosed

TO:

You are receiving this notice as you are a property owner within 330 meters of a proposed telecommunications tower.

Notice of Public Consultation

You're receiving this notice because you're a property owner within 330 meters of the proposed antenna tower.

Inside you will find information on the proposed antenna tower as well as an invitation to share any questions and comments on this proposal.

Have your say.

In order to improve service in your neighborhood, Bell is proposing to install a 110-meter antenna tower at the end of Stirls Road, 43.52632˚ N 65.62538W ˚ W.

Bell is committed to working closely with our communities. This means providing any desired information in a transparent and straightforward fashion, hearing your views, and addressing any questions or comments you may have.

To this end, we invite you to email comments to your Bell representative, Jess Harper, ca-pcp@wsp.com or phone (902) 536-0928 by April 10, 2021.

Understanding the process

Step 1:
Proposal
Bell proposes a site in accordance with Innovation, Science and Economic Development Canada (formally Industry Canada) consultation process. Bell submits a plan and initiates a dialogue with the Municipality of the District of Barrington.

Step 2:
Notification
Packages are mailed to the local public, business, property owners and residents within the notification area inviting them to the consultation process.

Step 3:
Consultation
Residents are invited to comment within 30 days.

Step 4:
Acknowledgement
Bell must acknowledge receipt of comments within 14 days.

Step 5:
Response
All reasonable and relevant concerns will be addressed by Bell within 60 days.

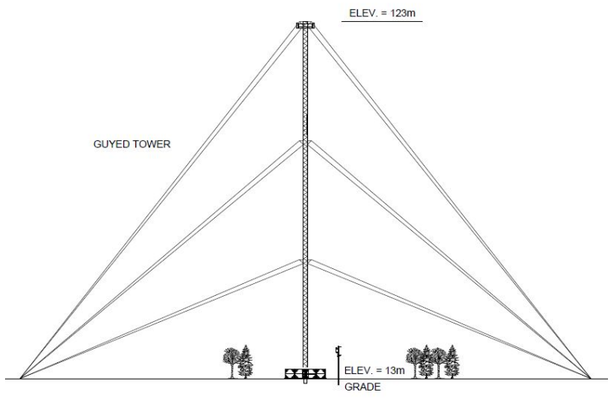
Step 6:
Feedback
Residents have a further 21 days to respond to Bell.

Step 7:
Approval
A summary of consultation is shared with the land use authority and an application is submitted for concurrence.

What is an antenna tower?

An antenna tower supports the low power short-range radio systems that allow us to enjoy our mobile devices, such as our smart phones and tablets.

The purpose of the tower is to provide dependable advanced telecommunication service to the surrounding businesses and residences.



Elevation View

Why now?

Canadians are using wireless devices more and more in their daily lives. Currently, more than half of all phone connections in Canada are now wireless, including 70 percent of all 911 calls.

Canadian Radio-television and Telecommunications Commission (2013)
http://www.crtc.gc.ca/eng/publications/reports/rp130705.htm

In order to provide the high quality of service that Canadians have come to expect, Bell must enhance its networks to meet this increased demand.

By adding new antenna sites, Bell customers will continue to benefit from dependable, high speed and high-quality wireless service.

Is it safe?

The consensus among Canadian health organizations and the scientific community is that wireless antennas are safe and in fact, this antenna tower will operate well below the levels established by Health Canada under Safety Code 6.

Bell is committed to the health and safety of Canadian communities. That is why we take great pride in our compliance with all current health and safety guidelines while continuing to provide Canada's first-rate wireless coverage.

"Health Canada, along with independent experts from across the country, continually monitor the scientific literature to ensure that Safety Code 6 is based on the best available evidence and has significant margins of safety for the Canadian population."

Dr. Patricia Daly, MD, FRCPC, Chief Medical Health Officer & Vice President Public Health.

What is Safety Code 6?

The purpose of this code is to establish safety limits for human exposure to radiofrequency (RF) energy in the frequency range from 3 kHz to 300 GHz. The safety limits in this code apply to all individuals working at, visiting, or living at or near federally regulated sites.

Bell attests that the proposed antenna tower will be installed and operated so as to always comply with Safety Code 6.

The Royal Society of Canada – A Review of Safety Code 6 (2013)
https://rsc-src.ca/sites/default/files/pdf/SC6_Report_Formatted_1.pdf

Why here?

The quality of service in this area does not currently meet Bell standards and the needs of people in the neighborhood.

Bell first looked at the possibility of sharing an existing antenna tower in order to minimize the number of new antennas in the area. In this review, it was determined that there are currently no existing towers or structures within proximity to the proposed location that would provide the necessary coverage and capacity for the operation of Bell's network.

Bell is proposing to install the new antenna tower at the end of Stirls Road in Barrington Passage. This site was identified based on meeting coverage and capacity requirements in addition to the business park zoning of the property.

Is it environmentally friendly?

As Canada's largest communications company, we care about the protection and preservation of our environment. Bell is proud to be included in the Corporate Knights 2014 Global 100 Most Sustainable Corporations in the World. This index is an annual ranking of corporate sustainability performance and recognizes the top performers in each industry.

The proposed antenna will be built in accordance with the highest professional engineering standards and practices. We ensure the utmost care and respect for the environment as we comply with the Canadian Environment Assessment Act.

What will it look like?

- Bell is proposing a 110-meter tower to support 15 antennas and radio equipment.
- An application has been made to NAV Canada to confirm compliance.
- Bell will incorporate any required elements to the proposed guyed tower, in accordance with Transport Canada's aeronautical obstruction marking requirements. Approval has been provided by Transport Canada indicating that day and night protection is required.
- A shelter will be placed at the base of the tower.
- The site will be fully fenced in with a locked access gate.
- With the neighborhood's safety in mind, the area will not be accessible to the general public.

APPENDIX 4

SAFETY CODE 6 ATTESTATION LETTER

January 28th, 2021

To whom it may concern:

This letter is in reference to concerns raised regarding RF radiation levels produced by the new services to be installed for the Cell site J8077 Barrington Passage at Stirls Rd., Barrington Passage, Nova Scotia.

As mandated by Industry Canada, we have conducted a preliminary study to predict the non-ionizing radiation levels anticipated to be produced by the antenna system associated with this site. Based on this study, the predicted levels should not exceed the “uncontrolled environment” limits set by Health Canada in their Safety Code 6 (“Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3KHz to 300 GHz”) guidelines.

I trust this should address any concerns regarding the health impact in the vicinity of this site. If you have any further concerns or questions please contact me.

Best regards,

Peter Landers, M.Eng., P.Eng.
RF Engineer - RF Network Design
Bell Mobility – Atlantic Region
Bedford, NS, Canada
t: 902-487-5716 m: 902-483-3938