



P.O. Box 1749
Halifax, Nova Scotia
B3J 3A5 Canada

Item No. 16.1
North West Community Council
February 29, 2016

TO: Chair and Members of North West Community Council

Original Signed

SUBMITTED BY:

Bob Bjerke, Chief Planner & Director, Planning and Development

DATE: February 19, 2016

SUBJECT: Case 19836: Telecommunications Tower - Damascus Road, Bedford

ORIGIN

Application by Altus Group Limited.

LEGISLATIVE AUTHORITY

The Federal Radiocommunication Act; HRM has no jurisdiction to regulate telecommunication towers, however, Industry Canada requires that proponents consult with local land use authorities to address reasonable and relevant concerns on any proposed antenna system.

RECOMMENDATION

It is recommended that North West Community Council:

1. Inform Industry Canada that they have no objection to the proposal by Rogers Communications Inc. to erect a new 48 metre (157 ft.) monopole telecommunication tower at PID# 41214370, Damascus Road, Bedford, as shown on Attachment A of this report; and
2. Forward a copy of this report to Industry Canada for background purposes.

BACKGROUND

The Altus Group Limited, on behalf of Rogers Communications, is proposing to locate a 48 metre (157 feet) monopole telecommunication tower and associated equipment on Damascus Road within the Bedford Commons Commercial Park, Bedford. The proposed tower will be accessed from Verdi Drive. The applicant's submission is provided in Attachments A to E of this report.

Location, Designation, Zoning and Surrounding Land Use

Location	PID# 41214370, Damascus Road, Bedford
Subject Property	Approximately 7.3 ha (18 acres) in size
Regional Designation	Industrial Park and Urban Settlement under the Regional Plan
Community Designation	Industrial under the Bedford Municipal Planning Strategy (Map 1)
Zoning	ILI (Light Industrial Zone) under the Bedford Land Use By-Law (Map 2)
Current Use(s)	Vacant land
Surrounding Land Uses	<ul style="list-style-type: none">• centrally located within the Bedford Commons (commercial and industrial park),• surrounded by ILI Zoned properties on all sides; and• in close proximity to several large commercial buildings such as Canadian Tire, Indoor Tennis Courts and the Rocky Lake Dome Rink.

Proposal

The proposed tower:

- is intended to be located approximately 500 meters (1,640.4 ft.) from the nearest residential property;
- will be free standing, self-supporting and 48 metres (157 ft.) in height measured from ground level (Attachment B);
- is not required by Transport Canada to have lighting and painting at this location (Attachment D); and
- will be equipped with an anti-climb apparatus.

Municipal Process

The federal government has jurisdiction over all forms of *Radiocommunication* (radio and television broadcasting, microwave communication, private radio transmissions, etc.). Provincial and Municipal governments have little jurisdiction to interfere with or impair communication facilities licensed under federal law. Industry Canada, under the *Department of Industry Act*, is the federal agency which licenses and regulates these facilities under the provisions of the *Radiocommunication Act* (R.S.C. 1985, c.R-2) and the *Radiocommunication Regulations* with due regard to the *Telecommunications Act*.

The federal government, however, has recognized that municipal authorities may have an interest in the location of antenna structures and this should be considered in the exercise of its authority. A consultation policy has therefore been instituted and this process is followed by HRM. The policy requires that an applicant notify the appropriate municipality of its intentions and the municipality is then given an opportunity to review the proposal and provide comment. In HRM, staff review and public consultation is undertaken prior to Community Council review. Community Council then provides written comment to the local office of Industry Canada.

Regional Plan Direction

The Regional Municipal Planning Strategy (RMPS) acknowledges the federal policy encouraging municipal consultation when dealing with antenna towers and associated structures and recognizes that the means of consultation is to be determined by the Municipality. Policy SU-26 of the RMPS directs HRM, in cooperation with Industry Canada and industry stakeholders, to create an effective consultation approach for the siting of telecommunication towers and antenna.

The Municipality is currently working to develop a new telecommunication tower protocol; however, until a new protocol is adopted by Regional Council, the process described above will be followed. Staff have reviewed the application against the draft protocol, and determined the placement of the monopole to be reasonably consistent with the draft.

Bedford Municipal Planning Strategy

The Bedford MPS does not contain policy that directly relates to the siting and design of telecommunication equipment, nor does it provide more general policy directing the form and siting of utility stations as a whole. Therefore, when considering the siting of a telecommunication tower, staff and Council should consider general planning matters such as land use compatibility, placement, architectural and site design.

Alternative Sites and Opportunities

As noted above, the federal government, through Industry Canada has jurisdiction over the location of telecommunication towers; however, they seek comment from the municipality before making their determination. Industry Canada's policy allows telecommunication proposals which are more minor in nature to be exempt from consultation with the municipality. These exemptions include such installations as co-locating on existing towers and locating on top of tall buildings. The exemptions are outlined in Industry Canada's Client Procedures Circular (CPC-2-0-03 Volume 4).

HRM has requested that the applicant demonstrate that the less intensive options described above have been investigated. In this case, the applicant has completed an investigation and determined there are no viable existing structures in the area that would be suitable for the operations of Roger's network equipment. Roger's has advised the surrounding hills in the area that block coverage from the other towers in the area, thus eliminating the opportunity for co-location of equipment.

DISCUSSION

Physical Proximity

Although the MPS does not guide the location of telecommunication towers, to ensure adequate separation from adjacent properties, it is prudent to review common practices which indicate that incompatibility between uses can be addressed through screening or separation of uses. Recommended minimum separation distances between towers and residential properties have often been established based on the measured height of a proposed tower. A separation distance which is equal to the tower height is based on a precautionary principle to minimize risk in the unlikely event of structural failure. In the event of tower collapse or ice falling from the tower, the separation distances between the residential properties and the tower are adequate as they exceed the height of the tower in all instances. As proposed, the subject tower is surrounded by commercial buildings and poses no risk to adjacent residential properties as it is located approximately 500 meters (1,640 ft) from the nearest property boundary which is 10.5 times the tower height.

Visual Impact

From a community perspective, it is anticipated the proposed tower will be visible, however, given the proposed location is within an industrially-zoned lands known as the Bedford Commons (commercial area), the impact is minimal. The proposed tower is located approximately 61 metres from the nearby tennis club and there is a treed buffer that separates the tower from motorists on Rocky Lake Drive and Highway 102.

Health and Safety

Industry Canada requires that such systems are operated in accordance with the safety guidelines established by Health Canada in their document entitled *Limits of Human Exposure to Radiofrequency Electromagnetic fields in the Frequency Range from 3 kHz to 300GHz*, commonly referred to as *Safety Code 6*. This document specifies the maximum recommended human exposure levels to radiofrequency energy from radiation emitting devices. The safety of wireless communication devices such as Wi-Fi equipment, cell phones, smart phones and their infrastructures, including base stations, is an area of ongoing study for Health Canada.

Prior to receiving a licence from Industry Canada, the operator must submit the calculations on the intensity of the radiofrequency fields to ensure that this installation does not exceed the maximum levels contained in *Safety Code 6* requirements. Information submitted in support of this proposal indicates no concerns in relation to *Safety Code 6* (Attachment E).

Conclusion

Staff has reviewed the proposal and advise that the physical separation of the proposed tower from residential development in the area is sufficient. The location of the tower on a commercial site is not anticipated to have any adverse visual effects or land use compatibility issues with the surrounding community. Therefore, staff recommends that North West Community Council inform Industry Canada that they have no objection to the proposal by Rogers Communications.

FINANCIAL IMPLICATIONS

The HRM costs associated with processing this planning application can be accommodated within the 2015/16 operating budget for C310 Planning & Applications.

COMMUNITY ENGAGEMENT

The community engagement process is consistent with the intent of the HRM Community Engagement Strategy. The level of community engagement was consultation, achieved through a mailout in May 2015. Notices were posted on the HRM website, and mailed to property owners within the notification area as shown on Map 2. No comments were received.

A public hearing is not included in the telecommunication tower application process. Community Council simply forwards a recommendation to Industry Canada.

The location of the proposed tower would potentially impact the following stakeholders: local residents and property owners.

ENVIRONMENTAL IMPLICATIONS

No implications have been identified.

ALTERNATIVES

North West Community Council may choose to Inform Industry Canada that they have additional comments or recommendations with respect to the proposed tower. In this event, staff will notify the local office of Industry Canada of Council's recommendations.

ATTACHMENTS

Map 1	Generalized Future Land Use
Map 2	Zoning and Notification
Attachment A	Site Plan
Attachment B	Tower Elevation & Rendering Tower Elevation
Attachment C	Aeronautical Assessment
Attachment D	NAV Canada and Transportation Approval
Attachment E	Safety Code 6 Attestation

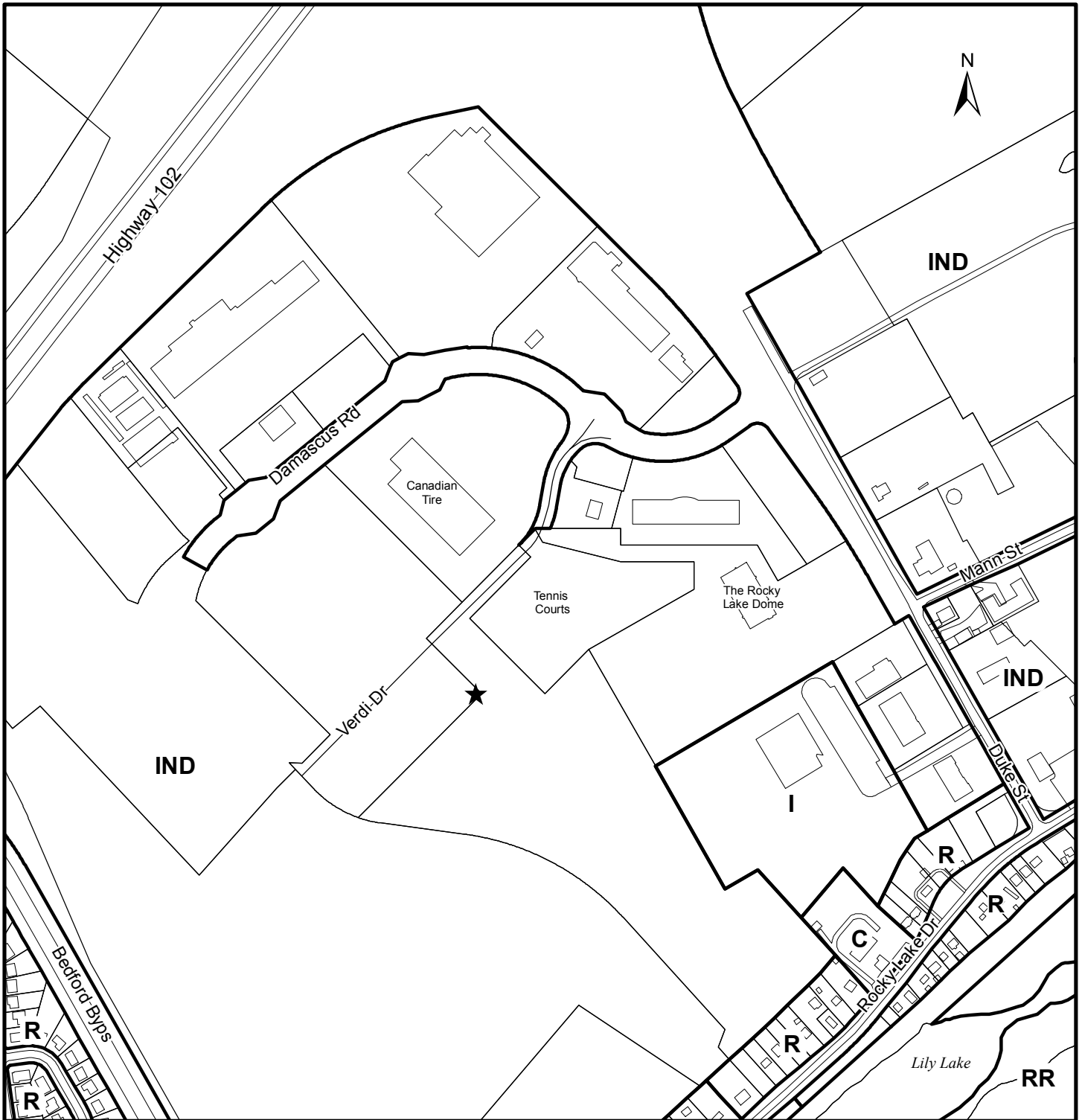
A copy of this report can be obtained online at <http://www.halifax.ca/commcoun/index.php> then choose the appropriate Community Council and meeting date, or by contacting the Office of the Municipal Clerk at 902.490.4210, or Fax 902.490.4208.

Report Prepared by: Stephanie A. Norman, Planner, Development Approvals, 902.490.4843

Original Signed

Report Approved by:

Kelly Denty, Manager, Development Approvals, 902.490.4800



Map 1 - Generalized Future Land Use

Bedford Commons Commercial Park
Bedford

HALIFAX

★ Approximate Location of Tower

Designations

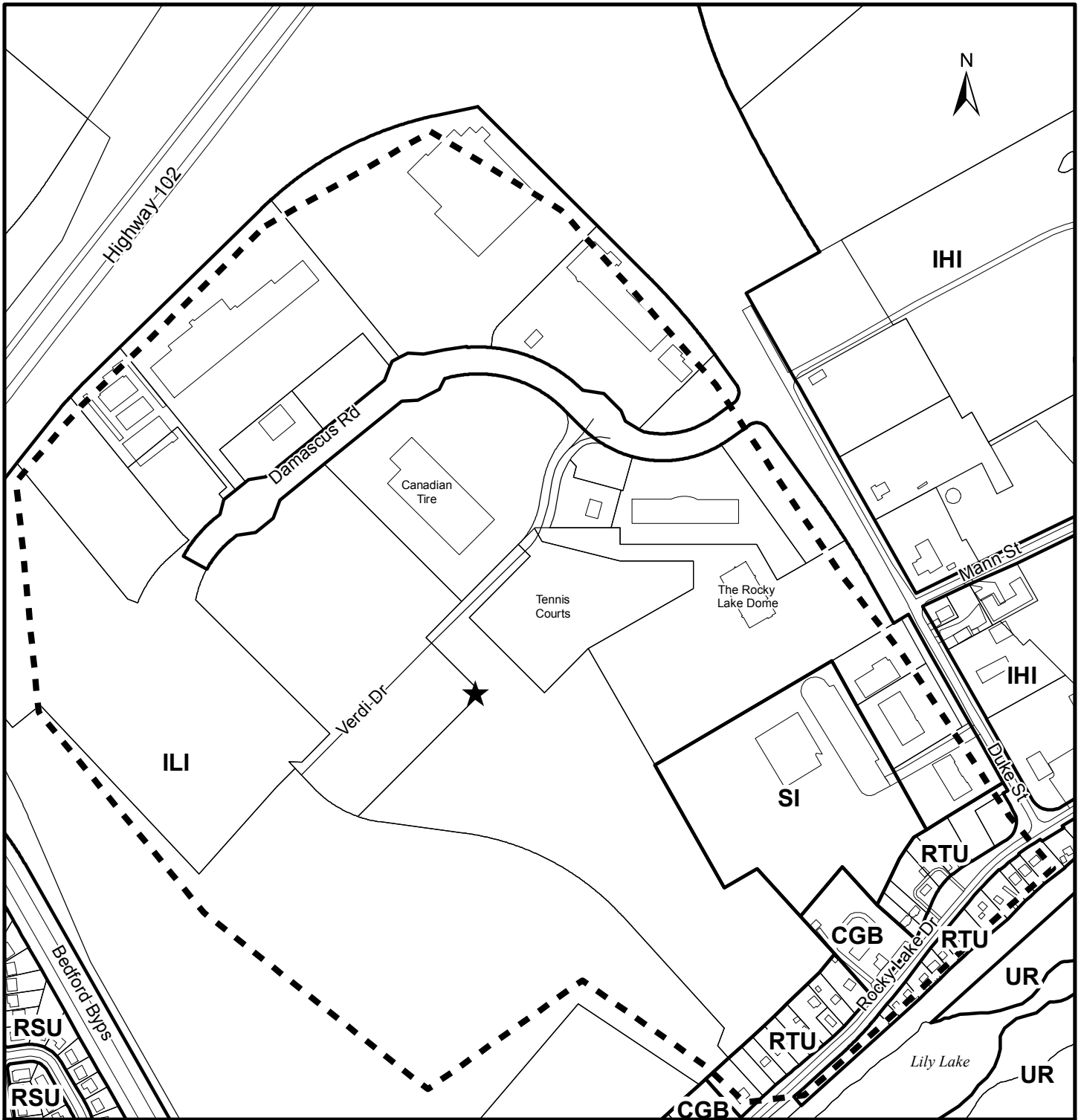
- R Residential
- RR Residential Reserve
- C Commercial
- IND Industrial
- I Institutional



This map is an unofficial reproduction of a portion of the Generalized Future Land Use Map for the plan area indicated.

The accuracy of any representation on this plan is not guaranteed.

Bedford
Plan Area



Map 2 - Zoning and Notification

Bedford Commons Commercial Park
Bedford

HALIFAX



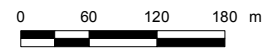
Area of Notification



Approximate Location of Tower

Zones

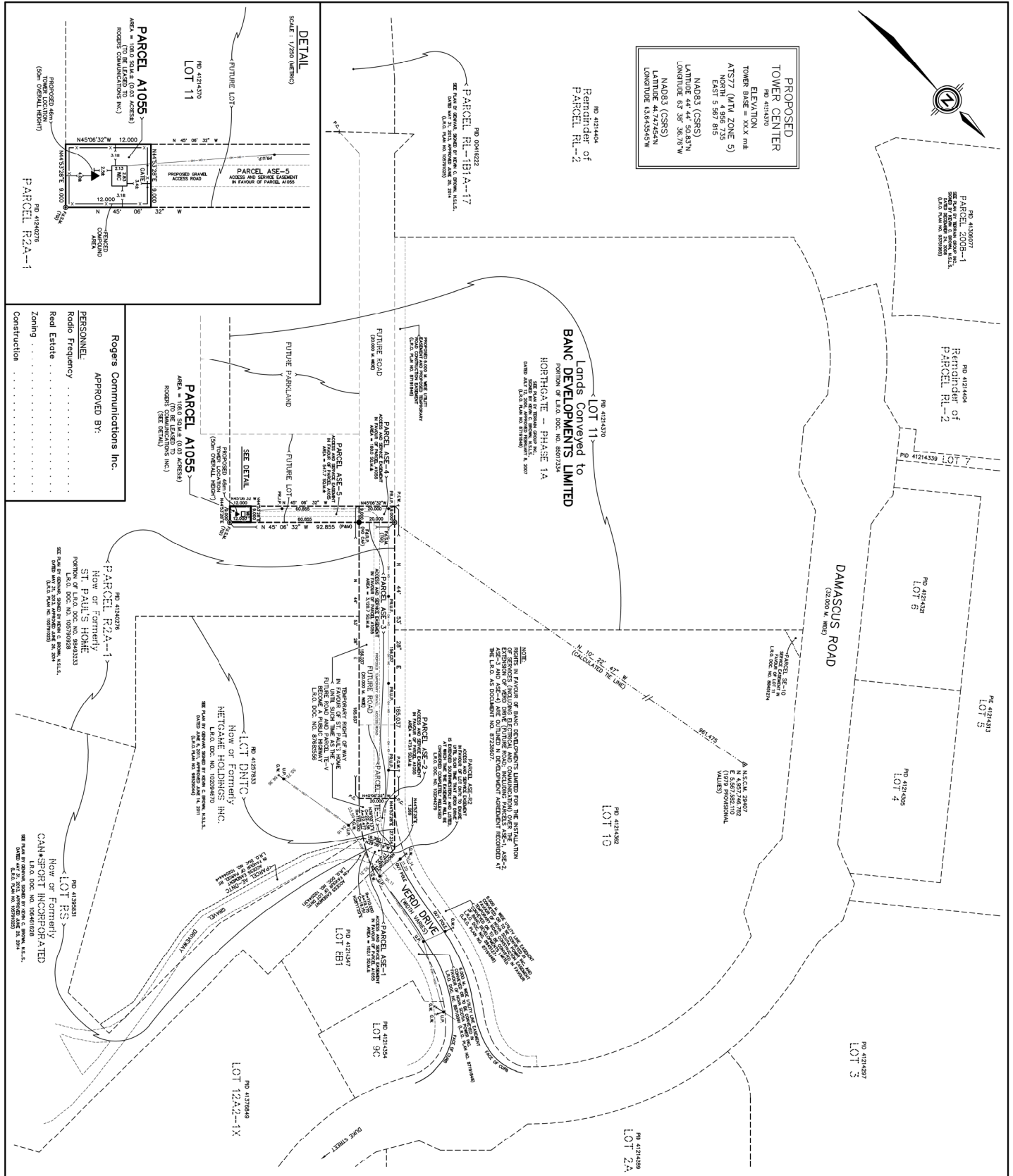
RSU	Single Dwelling Unit
RTU	Two Dwelling Unit
CGB	General Business District
ILI	Light Industrial
IHI	Heavy Industrial
SI	Institutional
UR	Urban Reserve



This map is an unofficial reproduction of a portion of the Zoning Map for the plan area indicated.

The accuracy of any representation on this plan is not guaranteed.

Bedford
Land Use By-Law Area



PROPOSED TOWER CENTER
 TOWER LOCATION
 AT 377 (M/T ZONE 5)
 EAST 5.97 B15
 NAD83 (GSSS)
 LATITUDE 44.321525N
 LONGITUDE 63.367676W
 NAD83 (GSSS)
 LATITUDE 44.321525N
 LONGITUDE 63.367676W

REMAINDER OF PARCEL RL-2
 PORTION OF LEO DOC. NO. 8807234
 NORTHGATE - PHASE 1A
 DATED MAY 12, 2009, APPROVED FEBRUARY 8, 2009

DETAIL
 SCALE: 1/250 (METRIC)

LEGEND:

- FOUND SURVEY MARKER
- FOUND POSTED CONCRETE MONUMENT
- FOUND 1/4" DIA. IRON PIPE MONUMENT
- FOUND 1/2" DIA. IRON PIPE MONUMENT
- FOUND 3/4" DIA. IRON PIPE MONUMENT
- FOUND 1" DIA. IRON PIPE MONUMENT
- FOUND 1 1/2" DIA. IRON PIPE MONUMENT
- FOUND 2" DIA. IRON PIPE MONUMENT
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- FOUND 4" DIA. IRON PIPE MONUMENT
- FOUND 6" DIA. IRON PIPE MONUMENT
- FOUND 8" DIA. IRON PIPE MONUMENT
- FOUND 10" DIA. IRON PIPE MONUMENT
- FOUND 12" DIA. IRON PIPE MONUMENT
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- FOUND 36" DIA. IRON PIPE MONUMENT
- FOUND 42" DIA. IRON PIPE MONUMENT
- FOUND 48" DIA. IRON PIPE MONUMENT
- FOUND 54" DIA. IRON PIPE MONUMENT
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- FOUND 114" DIA. IRON PIPE MONUMENT
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- FOUND 264" DIA. IRON PIPE MONUMENT
- FOUND 270" DIA. IRON PIPE MONUMENT
- FOUND 276" DIA. IRON PIPE MONUMENT
- FOUND 282" DIA. IRON PIPE MONUMENT
- FOUND 288" DIA. IRON PIPE MONUMENT
- FOUND 294" DIA. IRON PIPE MONUMENT
- FOUND 300" DIA. IRON PIPE MONUMENT

NOTES:

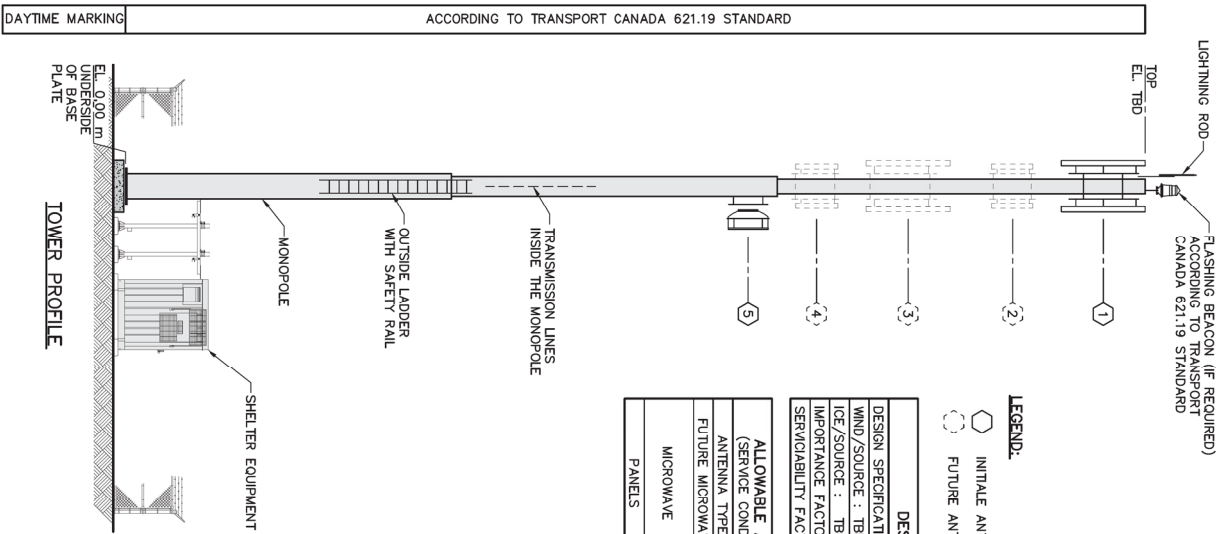
1. FIELD SURVEYS WERE CARRIED OUT DURING THE PERIOD MAY 8, 2013 TO MAY 23, 2013. DATA OBTAINED FROM GPS OBSERVATION REFERENCED TO THE NORTH AMERICAN DATUM 83 (NAD83).
2. THE MONUMENTS WERE SET BY THE SURVEYOR AND ARE REFERENCED TO THE MONUMENT 64. 00' IN ELEVATION.
3. FIELD MEASUREMENTS HAVE NOT BEEN ADJUSTED AND SOME FACTOR HAS BEEN APPLIED TO THE MONUMENTS.
4. ELEVATIONS ARE GEOMETRIC, DERIVED FROM N.A.S.T.M. 2007 HAVING A RESURVEYED ELEVATION OF 70.00 METERS.
5. ELEVATIONS ARE SHOWN IN METERS AND DECIMALS THEREOF.
6. PARCEL, INTERFERE ALSO OPERATES WITH THE PLAN SIGNED BY MICHAEL G. WILKINS, F.S.L.S., DATED MAY 24, 2013.
7. THE MONUMENTS ARE SHOWN IN METERS AND DECIMALS THEREOF.
8. ACCESS AND SERVICE RIGHTS IN FAVOR OF PARCEL, A1058 ACROSS PARCELS A1055, A1056, A1057 AND A1059 TO ENTER UNTIL SUCH TIME AS THE FUTURE PLAN IS SUBMITTED AND UNTIL SUCH TIME AS A FUTURE PLAN IS SUBMITTED.

DATED THE 23RD DAY OF FEBRUARY, 2015. **ADAM STEPHEN, F.S.L.S.**
 Original Signed

Site Plan Showing PARCEL A1055
 Lands Conveyed to
BANC DEVELOPMENTS LIMITED
 (TO BE LEASED TO ROGERS COMMUNICATIONS INC.)
 BEYOND
 COUNTY OF HALIFAX
 PROVINCE OF NOVA SCOTIA
 SCALE: 1/1000 (METRIC)
 FEBRUARY 23, 2015

Site: DAMASCUS@BANC
Location Code: A1055





DESIGN CRITERIA

DESIGN SPECIFICATIONS :	CSA S37-01
WIND/SOURCE :	TBD / ENV. CANADA
ICE/SOURCE :	TBD / CSA S37-01
IMPORTANCE FACTOR (I) :	1.0
SERVICABILITY FACTOR (T) :	0.85

ALLOWABLE ANTENNA ROTATIONS (SERVICE CONDITION) (1/30 YEAR WIND)

ANTENNA TYPE	ROTATION
FUTURE MICROWAVE	0.5°
MICROWAVE	SEE A-1 OF NETWORK STANDARD 40085
PANELS	2.0°

LEGENDA:

○ INITIAL ANTENNA

⊕ FUTURE ANTENNA

DRAWING LIST

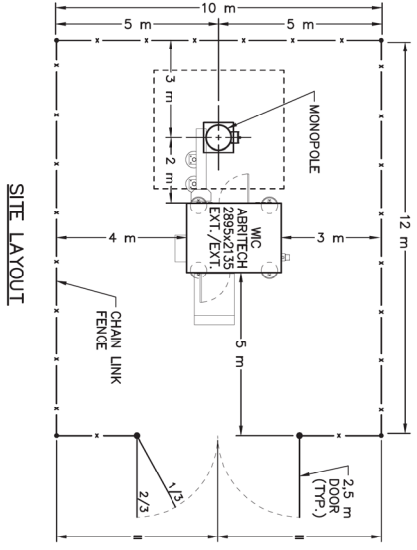
No	TITLE	REVISION
G01	DRAWING LIST, TOWER PROFILE, SITE LAYOUT AND ANTENNA LIST	0
G02	ANTENNA SUPPORT DETAILS	0
G03	TOWER AND SHELTER FOUNDATIONS	0

ANTENNA LIST

No	ANTENNA TYPE	ANTENNA TECHNOLOGY	ELEV. (m)	AZIMUTH (°)	MAIN TX-LINE	EQUIPMENT AT ANTENNA ELEVATION LEVEL	STATUS
(1)	(6) PANELS	LTE AWS	TBD	TBD	(6) COMPOSITE CABLES	(6) RRU	INITIAL
(2)	(3) PANELS	3.5 GHz	TBD	TBD	(6) COMPOSITE CABLES	(6) RRU	FUTURE
(3)	(3) PANELS	2.5 GHz	TBD	TBD	(6) COMPOSITE CABLES	(6) RRU	FUTURE
(4)	(6) PARABOLIC	MICROWAVE	TBD	TBD	(2) LDF2-50	(6) RRU	FUTURE
(5)	(1) PARABOLIC	MICROWAVE	TBD	TBD	(2) LDF2-50	(6) RRU	INITIAL

TBD : TO BE DETERMINED

NOTE: ANTENNA SPECIFICATIONS FOR THIS SITE WERE NOT AVAILABLE AT THE ISSUE OF THESE DRAWINGS. THE ANTENNAS AND THEIR EQUIPMENT LISTED IN THESE DRAWINGS ARE FICTIONAL AND ARE ONLY GIVEN TO SHOW WHAT THE FINAL PRODUCT WILL LOOK LIKE.



NOTE: THIS DRAWING AND ALL DIMENSIONS ARE TO BE USED FOR PERMIT ONLY. FINAL DRAWING AND DIMENSIONS FOR THE CONSTRUCTION OF THE PROJECT IS AWARDED.



DO NOT USE FOR CONSTRUCTION

CONSULTANT

Pinarjon

3980 L.P. Normand Blvd,
5th Floor,
Trois-Rivières,
QC G8B 0G2
Tel 819.377.2226

DATE: 2013.04.10
DRAWN BY: ABOUSERT
CHECKED BY: P.PINEL
APPROVED: P.PINEL
PROJECT: 13138
FILE: NS_M0_G01d603-0.dwg

TOWER OWNER

ROGERS™

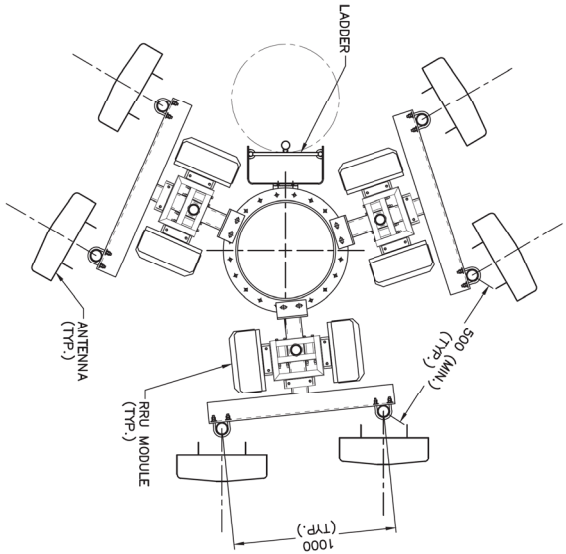
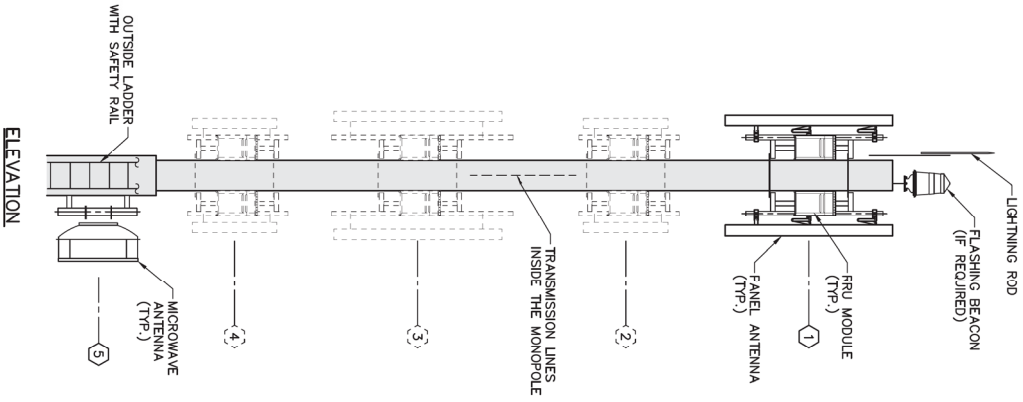
SITE:

NOVA SCOTIA TYPICAL MONOPOLE

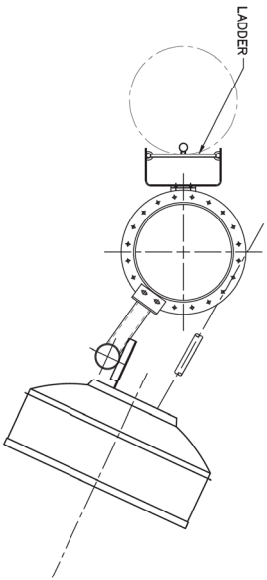
TITLE: DRAWING LIST, TOWER PROFILE, SITE LAYOUT AND ANTENNA LIST

SCALE: NONE

DRAWING NO: **G01**



PANEL ANTENNAS PLAN VIEW



MICROWAVE ANTENNA PLAN VIEW



2013-04-10

DO NOT USE FOR CONSTRUCTION

REV	DESCRIPTION	DATE	IPAR
0	ISSUED FOR PERMIT	2013.04.10	P.P.

CONSULTANT
Plaragon
 3980 L.P. Normand Blvd,
 Reno NV
 Trese-Rivers,
 Co. 988 0622
 Tel 818.377.2226

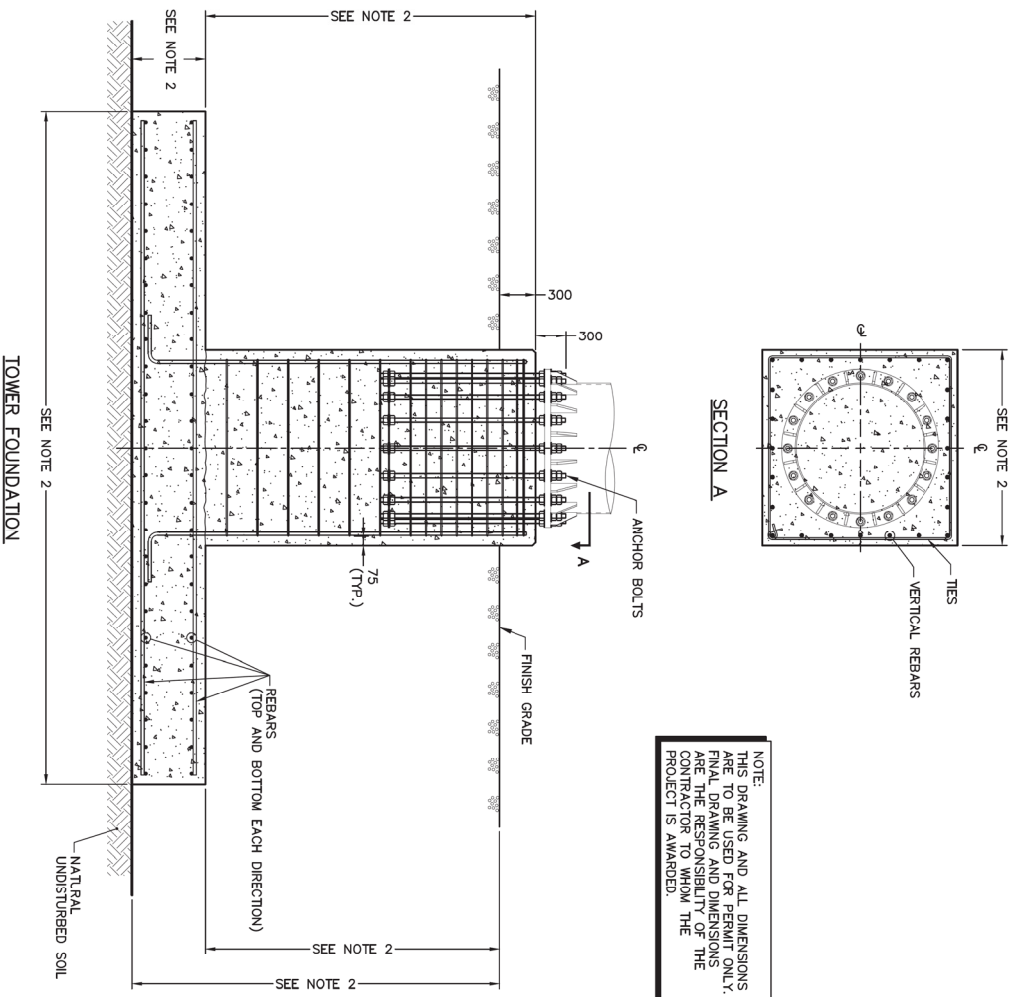
DATE: 2013.04.10
 DRAWN BY: ABOSSERT
 CHECKED BY: P.FINEL
 APPROVED: P.FINEL
 PROJECT: 13138
 FILE: NS_M0 0010d003-0.dwg



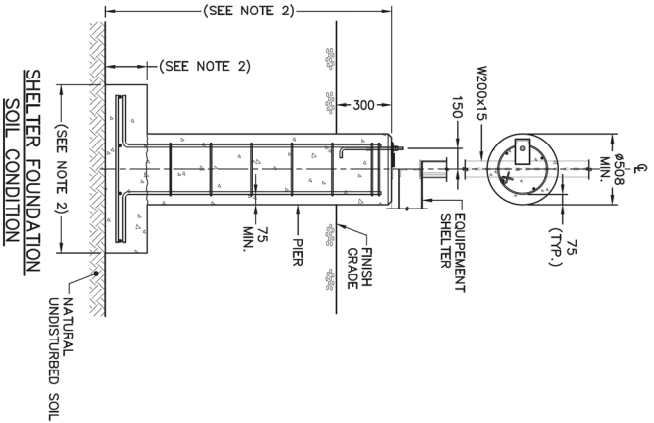
TOWER OWNER
 NOVA SCOTIA
 TYPICAL MONOPOLE

TITLE:
 ANTENNA SUPPORT DETAILS

SCALE: NONE DRAWING NO: **G02**



NOTE:
THIS DRAWING AND ALL DIMENSIONS ARE TO BE USED FOR PERMIT ONLY. FINAL DRAWING AND DIMENSIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO WHOM THE PROJECT IS AWARDED.



NOTE(S):
1. ALL DIMENSIONS ARE IN MILLIMETER (mm).
2. DIMENSIONS AND TYPE OF FOUNDATION TO BE DETERMINED ACCORDING TO RECOMMENDATIONS OF SOIL REPORT BY GEOTECHNICAL LAB.



DO NOT USE FOR CONSTRUCTION

REV	DESCRIPTION	DATE	PAR
0	ISSUED FOR PERMIT	2013.04.10	P.P.

CONSULTANT
Pinargon
 3980 L.P. Normand Blvd.
 3rd Floor
 Trois-Rivières,
 QC G8B 0E2
 Tel 819.377.2226

DATE: 2013.04.10
 DRAWN BY: ABOUSERT
 CHECKED BY: F.PINEL
 APPROVED: F.PINEL
 PROJECT: 13138
 FILE: NS_MJ_G019d03-0.dwg

TOWER OWNER
ROGERS™

SITE:
 NOVA SCOTIA
 TYPICAL MONOPOLE

TITLE:
 TOWER AND SHELTER
 FOUNDATIONS

SCALE: NONE
 DRAWING NO: **G03**

SIMULATION #1

May 2013

This illustration is a visual simulation. The final result, upon construction of this telecommunications tower, could differ from the illustration.



DAMASCUS ROAD (A1055)

APPROXIMATE DISTANCE BETWEEN THE PROPOSED INSTALLATIONS AND THE VIEWPOINT : 530 METERS



SIMULATION #2

May 2013

This illustration is a visual simulation. The end result, upon construction of this telecommunications tower, could differ from the illustration.



DAMASCUS ROAD (A1055)

APPROXIMATE DISTANCE BETWEEN THE PROPOSED INSTALLATIONS AND THE VIEWPOINT : 180 METERS



SIMULATION #3

May 2013

This illustration is a visual simulation. The end result, upon construction of this telecommunications tower, could differ from the illustration.



DAMASCUS ROAD (A1055)

APPROXIMATE DISTANCE BETWEEN THE PROPOSED TOWER AND THE VIEWPOINT : 264 METERS



Transport Canada Transports Canada

AERONAUTICAL ASSESSMENT FORM FOR OBSTRUCTION EVALUATION

Transport Canada number 2015-022
Applicant number A1055

SECTION 1

Owner's Name Rogers Communications Inc.		Contact Person Jean-Francois Doyon	
Address 800 rue de la Gauchetiere Ouest, Bureau 4000			
City Montreal		Province QC	Postal Code H5A 1K3
Telephone number (999-999-9999) (514) 981-8783	Fax number (999-999-9999)	Email Address JeanFrancois.Doyon@rci.rogers.com	

SECTION 2

Applicant's Name Rogers c/o Altus Group		Contact Person Aaron Murnaghan	
Address 1969 Upper Water Street, Suite 1701			
City Halifax		Province Nova Scotia	Postal Code B3J 3R7
Telephone number (999-999-9999) (902) 420-6638	Fax number (999-999-9999) (902) 422-6698	Email Address marney.cohen@altusgroup.com	

SECTION 3

Description of Proposal (or as attached)
ACODE:A1055
Site Name and Candidate:Damascus Road
Type of Tower: 46M Monopole with lightning rod height of 5m for an overall height of 51M

SECTION 4

Geographic Coordinates NAD83 NAD27 WGS84
 For multiple structures in a grouping, submit geographical coordinates on a separate spreadsheet (e.g. windfarms, transmission lines)

N Latitude deg	<u>44</u>	min	<u>44</u>	sec	<u>52.24</u>
W Latitude deg	<u>63</u>	min	<u>38</u>	sec	<u>38.70</u>

SECTION 5

Nearest Community Bedford	Province Nova Scotia
-------------------------------------	--------------------------------

SECTION 6

Nearest Aerodrome
Halifax Stanfield

SECTION 7

Have you contacted the aerodrome?
 Yes No

SECTION 8

Notice of
 New Construction Change to existing structure

SECTION 9

Duration
 Permanent Temporary



Transport Canada number

2015-022

SECTION 10

Proposed Construction Date Beginning (yyyy-mm-dd)

2015 05 30

SECTION 11

Temporary Structure

From date (yyyy-mm-dd) _____ To date (yyyy-mm-dd) _____

SECTION 12

Marking and Lighting Proposed (refer to Standard 621)

- | | | |
|--|--|--|
| <input type="checkbox"/> Red lights and paint | <input type="checkbox"/> Red and M.I. white lights | <input type="checkbox"/> White M.I. lights |
| <input type="checkbox"/> Red and H.I. white lights | <input type="checkbox"/> White H.I. lights | <input type="checkbox"/> No painting |
| <input type="checkbox"/> No lighting | <input type="checkbox"/> Paint marking only | <input type="checkbox"/> Other (provide description) |

SECTION 13

Monitoring to Standard 621, article 4.7 Visual Inspection Remote Indicator

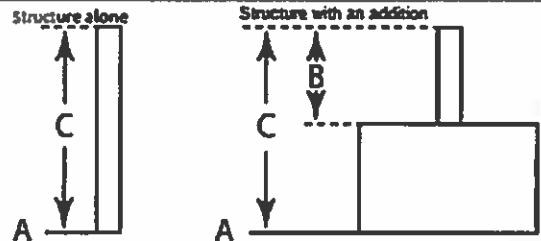
SECTION 14

Catenary/Cable Crossing

- | | | |
|--|---|--|
| <input type="checkbox"/> Paint supporting structures | <input type="checkbox"/> Cable marker spheres | <input type="checkbox"/> Shore markers |
| <input type="checkbox"/> Support structure lighting | <input type="checkbox"/> Cable marker lights | |

SECTION 15

	Feet	Metres
A Ground Elevation (AMSL)		59.8m
B Height of an addition to a structure		
C Total structure height including B (AGL)		51m
Overall height (A plus C) (AMSL)		110.8m



SECTION 16

Does the proposal comply with Airport Zoning Regulations?

- Yes No N/A

Where the location of the object is on lands affected by Airport Zoning Regulations, a legal survey is required with the submittal

I hereby certify that all the above statements made by me are true, complete and correct to the best of my knowledge. Also, I agree to mark and/or light and maintain the structure with established marking and lighting standards as necessary.

John Di Sante-Construction Manager - Marney Cohen on behalf of Rogers

Name of person filing notice

Original Signed

Signature

2015 02 18

Date (yyyy-mm-dd)

TRANSPORT CANADA ASSESSMENT

Marking and lighting required (as per Standard 621)

- Lighting Required Marking Required Temporary Lighting Required No Lighting or marking required

Comments (Transport Canada use Only)

Completion of this form does not constitute authorization for construction nor replace other approvals or permits. See Instruction D and E.

Civil Aviation Inspector

Original Signed

Signature

Original Signed

Date (yyyy-mm-dd)

2015/02/27

Note 1: This assessment expires 18 months from the date of assessment unless extended, revised, or terminated by the Issuing office

Note 2: If there is a change to the intended installation, a new submittal is required.



June 8, 2015

Your file
A1055_Damascus Rd. - Verdi Drive, Bedford
Our file
15-0617

Ms. Marney Cohen
Altus Group
1969 Upper Water Street, Suite 1701
Halifax , NS
B3J 3R7

RE: Communication: Self-support Tower - Bedford, NS
(N44° 44' 52.24" W63° 38' 38.70" / 167.3228' AGL / 363.5170' AMSL)

Ms. Cohen,

We have evaluated the captioned proposal and NAV CANADA has no objection to the project as submitted.

In the interest of aviation safety, it is incumbent on NAV CANADA to maintain up-to-date aeronautical publications. To assist us in that end, we ask that you notify us upon completion of construction. This notification requirement can be satisfactorily met by returning a completed, signed copy of the attached form by e-mail at landuse@navcanada.ca or fax at 613-248-4094. In the event that you should decide not to proceed with this project or if the structure is dismantled, please advise us accordingly so that we may formally close the file.

If you have any questions, contact the Land Use Department by telephone at 1-866-577-0247 or e-mail at landuse@navcanada.ca.

NAV CANADA's land use evaluation is valid for a period of 12 months. Our assessment is limited to the impact of the proposed physical structure on the air navigation system and installations; it neither constitutes nor replaces any approvals or permits required by Transport Canada, Industry Canada, other Federal Government departments, Provincial or Municipal land use authorities or any other agency from which approval is required. Industry Canada addresses any spectrum management issues that may arise from your proposal and consults with NAV CANADA engineering as deemed necessary.

Yours truly,

Original Signed

David Legault | NAV CANADA
Manager, AIM Data Validation and Publishing

cc ATLR - Atlantic Region, Transport Canada (2013-163)
CFR3 - FALL RIVER(WATER)

Annex 5: Safety Code 6 Attestation Letter



Rogers Communication
Radio Engineering Department
800, Guichetière O, Bureau
4000 Montréal, QC
H5A 1K3

February 18, 2015

RE: RADIO FREQUENCY ANALYSIS FOR ROGERS SITE "DAMASCUS*Banc" (ref: A1055)

Rogers Communication has completed a power density analysis for the antennas to be installed on the planned tower site Damascus*Banc, located at Verdi Drive, Bedford, NS (Latitude: 44.74761, Longitude: -63.64367).

The maximum power density as a fraction of the Health Canada – Safety Code 6 limit was calculated for the planned antennas configuration. Calculations were performed over the ground level and the neighbouring properties using EMF Visual, a radiofrequency power density calculation software tool.

This calculation enables the designer to determine that the highest level of radiofrequency will be **149 times lower than the limit established by Health Canada, in a non-controlled environment.**

Based on this analysis, Rogers Communication confirms that the planned antennas installation on the site Damascus*Banc complies with Health Canada – Safety Code 6 limits of exposure to radiofrequency electromagnetic fields.

Sincerely,

Rabih El Khoury El Borgi
Radio System Design
Radio Engineering Department
Rogers Communications

Original Signed

Abdelali ElKhettabi, Eng.
OIQ# 145817
Radio System Design Engineer
Radio Engineering Department
Rogers Communications

Original Signed