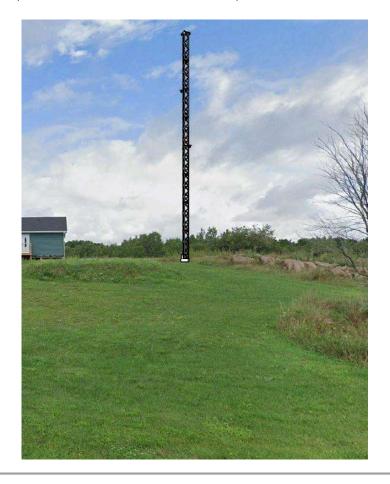


Site Selection and Justification Report Telecommunications Antenna System Proposal

Gananoque River Tower Site

384 Marble Rock Road, Leeds and the Thousand Islands ON, K7G 2V4



Location Coordinates: 44.3785526, -76.1765877

Tower Height: 46 metres

Structure Type: Freestanding Telecommunications Tower Purpose: Wireless Broadband Infrastructure Deployment

Submitted by:
Kingston Online Services
303 Bagot St., Suite 16A, Kingston ON, K7K 5W7
planning@kos.net | 613-549-8667



1. Introduction

This report provides a justification for the proposed installation of a 46 metre self-supporting telecommunications tower at 384 Marble Rock Road in the Township of Leeds and the Thousand Islands. The facility, proposed by Kingston Online Services (KOS), is intended to expand high-speed fixed wireless internet service—delivering speeds of up to 250 Mbps to local residences—while also providing critical backhaul connectivity to other sites within the Township of Leeds and the Thousand Islands, the Township of Rideau Lakes and the Township of Front of Yonge.

The report demonstrates that alternative sites and co-location opportunities have been considered, and that the proposed site minimizes environmental, visual, and land use impacts while meeting the technical requirements of the network.

2. Site Selection Process

• Alternative Sites Considered

A search ring was defined based on topography and existing service gaps. Several alternative parcels within this ring were reviewed; however, they were either heavily treed, lacked suitable access, or contained environmental constraints.

• Co-location Opportunities

A review of the ISED database confirmed that there are no existing towers near the proposed location. The nearest available structures are technically unsuitable, as they do not provide adequate coverage of the identified service gap nor the required downstream backhaul connectivity.

Justification for Proposed Site

384 Marble Rock Road is centrally located within the identified coverage gap, has reliable access from Marble Rock Road, and sits on cleared land that avoids sensitive features. The landowner has consented to host the facility, making this the most technically and practically viable option with minimal environmental impact.

3. Existing Conditions

• Vegetation and Screening Features

The site is located on open land, with mature trees present along neighbouring lot lines. These features provide natural screening for the base the structure while leaving the upper tower visible.



Address & Access

The proposed facility is located at 384 Marble Rock Road with direct access from the municipal roadway, which offers safe, low-volume access for construction and ongoing maintenance.

Natural Heritage Features

A review using Township GIS and provincial mapping indicates no regulated wetlands, ANSIs, or significant woodlots directly affected by the proposal. This has been confirmed by the Cataraqui Region Conservation Authority.

Natural Hazard Features

No floodplains, steep slopes, or erosion hazards are present at the tower location.

Proximity of Public Roadways

The tower will be setback more than 50 metres from Marble Rock Road, reducing visual prominence.

4. Design and Technical Rationale

Proposed Height

The proposed 46 metre tower height is necessary to clear the local tree canopy (averaging 20 metres to 25 metres) and rolling terrain. A shorter structure would not provide reliable line-of-sight coverage or effective backhaul connectivity.

Structure Design and Colouration

The facility will be a self-supporting lattice tower, finished in natural galvanized steel to blend with the sky. Unlike larger cellular installations, no compound is required. A small network cabinet will be installed at the base, and the tower will be equipped with anti-climb protection for safety.

Lighting

Under Transport Canada Standard 621, structures under 90 metres in height are normally not required to have obstruction lighting unless identified as a concern through NAV CANADA's aeronautical assessment.

For this proposal, Kingston Online Services has submitted applications to NAV CANADA and Transport Canada and is awaiting a determination. Should lighting be required, shielded red obstruction lighting will be installed to minimize visual impact.

5. Potential Impacts and Mitigation

• Residential Uses

The nearest residence is located over 120 metres from the proposed site. With vegetation



screening and the slim profile of the lattice tower, visual impacts will be minimal. No noise, vibration, or emissions beyond federal standards are anticipated.

Viewscapes

While the structure will be visible from certain vantage points, the rural landscape and treed surroundings mitigate prominence.

• Institutional and Recreational Uses

There are no schools, parks, or community facilities in close proximity to the site. No adverse impacts on recreational activities are anticipated.

Agricultural Lands

The proposed facility footprint is approximately 6 square metres (including the tower and small equipment cabinet). This is a negligible impact on the productive use of the surrounding land.

Other Impacts

The installation will comply with all applicable regulations, including ISED's CPC-2-0-03 and Health Canada's Safety Code 6, ensuring no risk to public health or safety. Access will use an existing farm entrance, avoiding new disturbance.

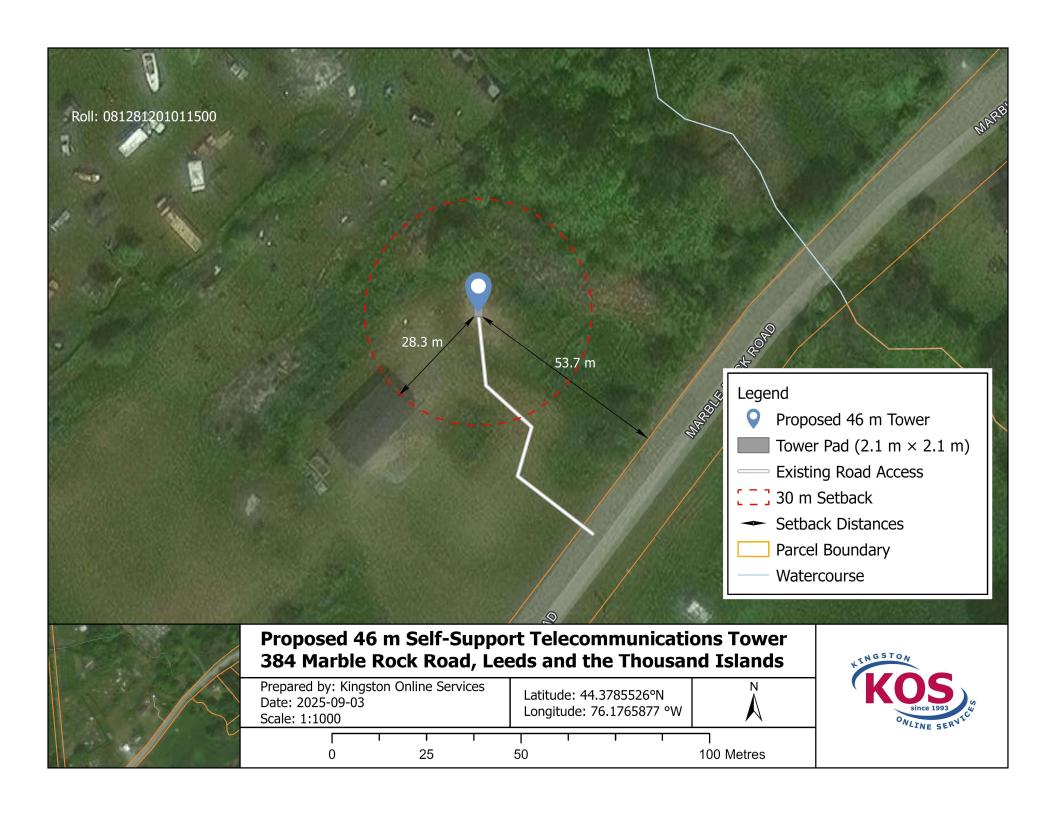
6. Conclusion

The proposed telecommunications tower at 384 Marble Rock Road represents the most appropriate location to address the significant coverage gap in the Gananoque River area. Alternative parcels and colocation opportunities were evaluated but found unsuitable.

This site offers:

- Optimal technical performance at 46 metre height
- Minimal impact on environmental and cultural features
- Compatibility with surrounding agricultural and rural land uses
- Safe, efficient access from an existing public road

Based on these considerations, the site is justified as the preferred and most viable location for the proposed facility.





PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND
REGISTRY
OFFICE #28

PAGE 1 OF 2 PREPARED FOR KOS ON 2025/09/30 AT 15:55:14

ONLAND

OFFICE #28 44240-0175 (LT)
* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PT LT 13-14 CON 3 LEEDS AS IN LR355104; S/T L2207 AS AMENDED BY PL298; S/T L2208 AS AMENDED BY PL298; S/T 18Z1011, 18Z1390, LR74937; LEEDS/THOUSAND ISLANDS

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY. NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.





LAND REGISTRY OFFICE #28

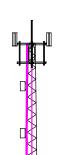
44240-0175 (LT)

PAGE 2 OF 2
PREPARED FOR KOS
ON 2025/09/30 AT 15:55:14

ONLAND

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY. NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

Leg 50 KSI	SR 2-3/4" Φ	SR 2-1/2" ⁽¹⁾	SR	SR 2-1/4" Φ	SR 2" \oplus	A	В	υ	۵	ы
Diagonal 44 KSI	8	SR 1" ⁽¹⁾		SR 7/8" [©]	Φ "8		SR 3	SR 3/4" [©]		Eu
Horizontal 44 KSI	SR 1-1/4" Φ	SR 1-1/8" ⁽¹⁾	SR 1" \oplus							
Brace Bolts A325				(3) -5/8						
Face Width	5.3									1.5
Panel Height # Panels		28 @ 2.5'				64 @	64 @ 1.3'			
	0.0'	30.0'	60.0'	80.0' 70.0'	00.00	100.0	110.0	120.0	130.0	140.0





- NOTES:
 1. Limit State Design
 2. FACTORED LOADING
 3. TYPICAL DESIGN NOT FOR CONSTRUCTION
 4. Max T/T=<1.65Deg at Yr10 wind for HP2

ANTENNA LIST

NO	ELEV	ANTENNA	TX-LINE
1-2 3 4 5	150.9' 141.1' 131.2' 114.8' 108.3'	(2) Tarana BN (1) GX-80 2' Dish (1) ePMF4600 (1) GX-80 2' Dish (1) ePMP4600	(4)-Fiber (2)-Fiber (1)-Fiber (2)-Fiber (1)-Fiber

MATERIAL LIST

NO	TYPE
A B C D E F	SR 1-3/4" © SR 1-5/8" © SR 1-1/2" © SR 1-3/6" © SR 1-1/4" © SR 5/8" ©

TOTAL FOUNDATION LOADS

H=9.00 k V=29.77 k M=751.15 k-ft T=-3.64 k-ft

INDIVIDUAL FOOTING LOADS

H=5.23 k V=174.47 k U=-141.65 k



Client: ONtower

Standard: CSA S37 2024

Allan Pipe Fab Inc.

65 Barnes Rd., Cambridge, ON, Canada N3H 4R7

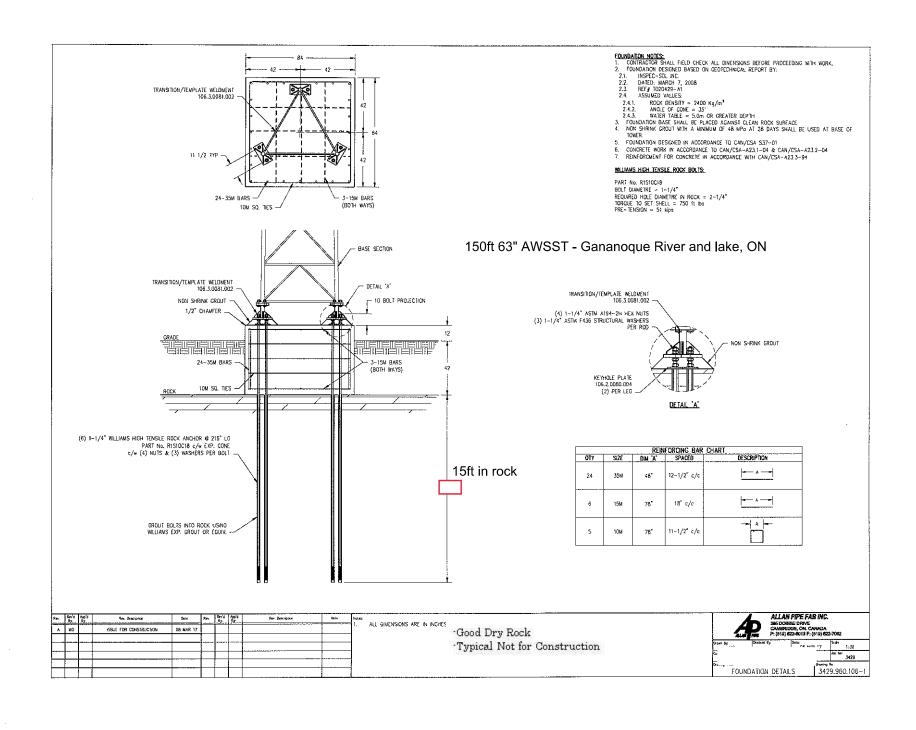
Phone: (519) 650-5858

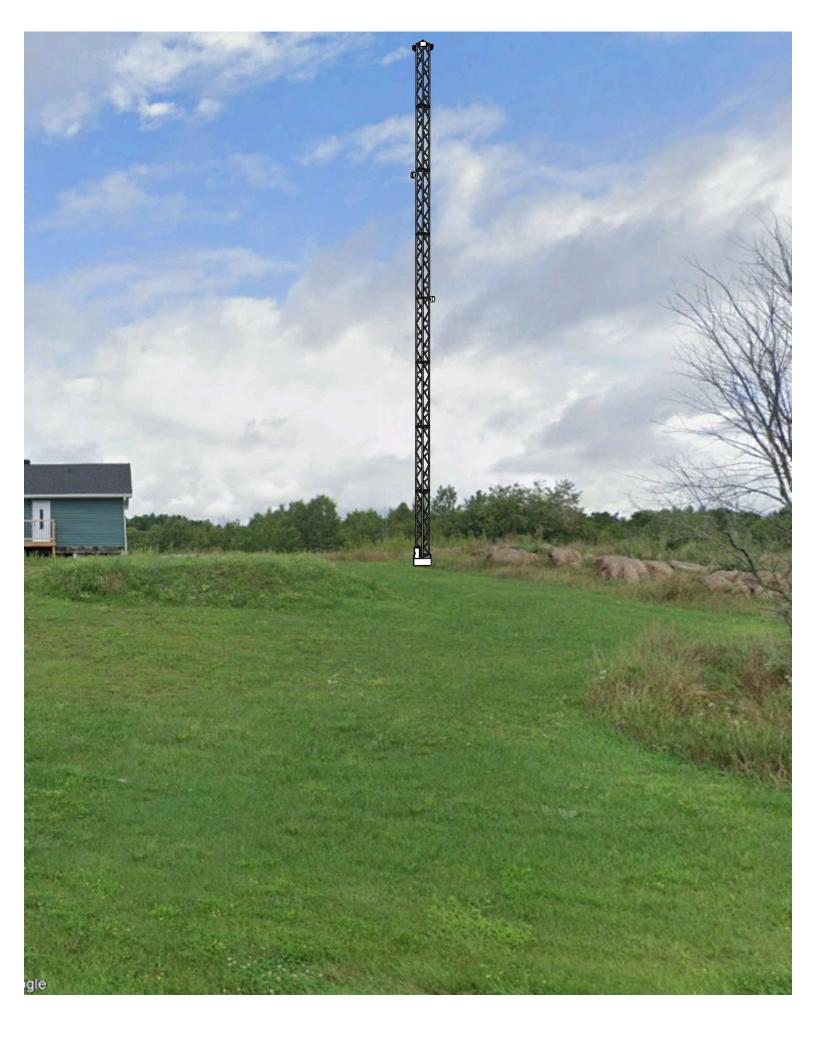
Job No: Q-10314D1 Date: 26 sep 2025

Tower Height: 150.00' Location: Gananoque River, ON Total Height: 151.00'

Design Wind & Ice: Qe=470Pa wind, 30mm ice

Fax: (519) 650-5088







THIS LEASE made this first day of October 2025, between:

TCHAD MARCEAU
Hereinafter called the "Landlord"
and1085459 ONTARIO LTD., carrying on business as
KINGSTON ONLINE SERVICES
hereinafter called the "Tenant"

WHEREAS:

 The Landlord is the owner of the property located at 384 Marble Rock Road (the "Land"), legally described as:

384 Marble Rock Road Gananoque, ON K7G 2V4

The Landlord has agreed to grant the Tenant the right to place wireless internet equipment on part of the Land, including to constructed and install:

A 150-foot self-support tower with an 8-foot by 8-foot base for the purpose of providing wireless internet services to the surrounding area.

NOW THEREFORE WITNESS that in consideration of the mutual rights and obligations herein expressed and for other good and valuable consideration (the receipt and sufficiency of which are hereby acknowledged), the parties agree as follows:



The Landlord warrants that he/she/it is the only person/entity with an ownership interest in Land (save and except for any mortgage interests) and agrees to compensate the Tenant for any damages arising from another owner/co-owner who makes any claim or causes any disruption or interference with the license granted herein. IN WITNESS WHEREOF the parties have executed this Lease on the date thereafter written. Pér: Authorized signing officer Authorized signing officer

Subject: RE: Permit Inquiry Form #10553-205 - 384 Marble Rock Rd, LTI

From: Development < Development@crca.ca>

Date: 2025-09-16, 3:53 p.m.

To: "dfenato@kos.net" <dfenato@kos.net>

Hi Dominic

Staff have reviewed your development proposal (drawing attached) and have concluded that the proposed location for the development is not within an area that is subject to Ontario Regulation 41/24. Therefore, a Cataraqui Conservation permit is not required for this development. We would also encourage you to contact the municipalities planning and building department to inquire about any limitations or restrictions that may also apply from a municipal zoning and building perspective.

Regards

Rhonda Roantree

Resource Planning Clerk



2069 Battersea Rd, Glenburnie ON, K0H 1S0

Phone: (613) 546-4228 ext. 220 **Toll-Free:** 1-877-956-2722

Fax: (613) 547-6474

Web: www.CataraquiConservation.ca

Please note individuals should schedule an appointment with Cataraqui Conservation staff for any in-person inquiries relating to planning and permitting matters. Contact me or visit https://cataraquiconservation.ca/pages/appointment to do so.

Cataraqui Conservation sits on the traditional lands of the Haudenosaunee & Anishinabek peoples, and we want to thank the Indigenous people for their continued care and protection of All of Our Relations on this shared land.

From: postmaster@email.pifyapp.com <postmaster@email.pifyapp.com>

Sent: September 15, 2025 2:35 PM

To: Development < Development@crca.ca>
Cc: Krista Fazackerley < KFazackerley@crca.ca>
Subject: Permit Inquiry Form #10553-205

Permit Inquiry Form

•	First Name : Dominic
•	Last Name : Fenato
•	Email: dfenato@kos.net

• Phone :

- Civic Address of Property (if you don't know/have a civic address, please add the street name or closest civic address to the property): 384 Marble Rock Road
- Municipality: Leeds and Thousand Islands
- Lot: 13
- Concession: 3
- Ward:
- Waterbody:
- Coordinates (Latitude/Longitude): 44.3785526, 76.1765877
- Select from the following list: :
 - New Building/Structure
- Other:
- Does the project require any of the following? : Site Plan Approval
- Has a previous application been filed for this property? : Unknown
- Brief Description of Work (2-3 sentences to give us a general understanding):

 Building a 46 m tall tower that has a 2.4 m x 2.4 m concrete base.
- Upload a sketch/drawing indicating location of development on the property. : File

—Attachments:

bn5jTu20250916023445384MarbleRockRoadsketch.pdf

423 KB

2 of 2



Sample Public Notification Letter



Dear Resident,

Kingston Online Services (KOS) is proposing to install a 46 metre freestanding telecommunications tower at 384 Marble Rock Road, in the Township of Leeds and the Thousand Islands. This facility would be capable of delivering next generation high-speed wireless broadband service up to 250 Mbps to underserved homes around the Gananoque River area.

About the Proposed Facility

- **Height & Design:** A 46 metre self-supporting lattice tower with a natural galvanized steel finish. The structure will be anchored on a reinforced concrete foundation measuring 2.1 metres by 2.1 metres. This tower will not require guy wires, further reducing the tower footprint.
- Compound: A small equipment cabinet at the base; no large compound or building required.
- Lighting: Under Transport Canada Standard 621, structures under 90 metres in height are
 normally not required to have obstruction lighting unless identified as a concern through NAV
 CANADA's aeronautical assessment. Kingston Online Services has submitted applications to NAV
 CANADA and Transport Canada and is awaiting a determination. Should lighting be required,
 shielded red obstruction lighting will be installed to minimize visual impact.
- Safety Compliance: The facility will meet all applicable federal requirements, including ISED CPC-2-0-03 and Health Canada's Safety Code 6. An anti-climb system will be installed on the lower sections of the tower to enhance public safety and security.

Why This Location?

- Centrally located within the identified broadband coverage gap.
- Provides reliable line-of-sight over local tree canopy and terrain.
- Avoids sensitive environmental features such as wetlands and significant woodlots.
- Supported by the landowner, with direct access from Marble Rock Road.

Potential Impacts

- **Residential:** The nearest residence is more than 120 metres away; visual impacts will be minimal due to tree screening and slim tower profile.
- **Agricultural:** Facility footprint is approximately 6 square metres, with negligible effect on the land.
- Environmental: The proposed site is located outside regulated wetlands and hazard lands, as
 confirmed through consultation with the Township of Leeds and the Thousand Islands and the
 Cataraqui Region Conservation Authority. It is situated on open land with existing access,
 eliminating the need to disturb trees or vegetation and thereby minimizing environmental
 impacts.



This is a simulated tower view.





Public Consultation

In accordance with Innovation, Science and Economic Development Canada (ISED) requirements, Kingston Online Services is notifying the public and inviting comments.

- Comment Period: Written comments will be accepted for 30 days from the date of this notice.
- How to Submit:
 - Mail: Kingston Online Services, 303 Bagot Street, Suite 16A, Kingston ON, K7K 5W7
 - o **Email:** planning@kos.net
- A community information session will be held

KOS is committed to working with residents, the Township of Leeds and the Thousand Islands, and federal regulators to ensure this facility is designed and operated responsibly. If you have any questions or feedback, you can reach out to us at planning@kos.net.

Sincerely,
Kingston Online Services
303 Bagot Street, Suite 16A, Kingston ON, K7K 5W7
planning@kos.net | www.kos.net