



Regional Engineering
Engineering Services
CN Public Works-East
1 Administration Road
Concord,
Ontario,
L4K 1B9

Communication Cable Crossing Application

Applicants shall submit **three (3)** copies of an acceptable plan. Plans shall conform to Canadian Transportation Agency (CTA) General Orders E-11 and E-12, and the latest versions of CAN/CSA-C22.3 No. 1 and / or CAN/CSA-C22.3 No. 7.

The application fee, in the amount of **\$1350.00** (HST included), to cover the cost of reviewing the application and plans, will be invoiced. The Applicant will be charged an additional fee of **\$200.00** (HST included) for each review after the initial application due to inadequate or missing information. Also, an additional fee for an electrical consultant may be charged should the installation warrant these services.

- **The Applicant shall indicate the duration of construction on / above / below the CN right-of-way, provide an estimated construction schedule, and provide a field contact name and phone number.**

The following information is required on all application drawings:

- Drawings must be to scale or have all dimensions shown.
- Existing and proposed facilities shall be clearly marked.
- Indication that the crossing is for a communication cable, complete with circuit voltage.
- A site plan showing the location of crossing in relation to a legal description or road allowance or Railway mileage and subdivision.
- Dimension width of CN right-of-way, the number of tracks and the angle of crossing.
- Include a caption stating, "Construction, maintenance and operation of the line shall be in accordance with CTA General Orders E-11 and E-12 and the latest version of CAN/CSA-C22.3 No. 1 and CAN/CSA-C22.3 No. 7 as applicable."
- Professional Engineer's stamp, date and signature required when in joint use with power lines.
- Contact name, address and phone number of Utility Owner on plan or cover letter.
- Revised drawings shall be marked as revised and state reason for revision.

Additional requirements for underground crossing application drawings:

- Supply cables must be protected for the full width of CN's right-of-way.
- Indicate type and details of cable and mechanical protection (if used).
- If cables are to be encased, the casing shall extend the full width of CN's right-of-way.
- Include a profile showing depth of burial from base of rail and ditch bottoms to cable.
- Minimum depth of burial below base of rail is 1.68 m Main Tracks.
- Minimum depth of burial below base of rail is 1.37 m Industrial Tracks.
- Minimum depth of burial below road surface is 1.0 m.
- Minimum depth of burial below ditch bottom is 1.0 m.
- Note intention to install warning markers at each edge of CN right-of-way.
- Note method of installation (i.e. boring / augering).
- Indicate location of nearest excavation from nearest rail.

Additional requirements for underground 250 mm diameter (10 inches) or greater:

- Submit a complete copy of the Geotechnical Report, including comments and recommendations with respect to construction methodology.
- Submit a detailed proposal for in-ground settlement monitoring, developed by a Geotechnical Engineer with experience in large diameter pipe installation.
- Provide, in writing, the name and phone number of the qualified site inspector(s) who will be on the job site on a full time basis for the duration of construction, as specified by NTA General Orders.

Additional requirements for overhead crossing application drawing:

- q When joint facilities are used, drawings must show information pertaining to both users. Applicants are to ensure that other user(s) are aware and have approved of the proposed joint facility.
- q Indicate location and note all information pertaining to: poles and adjacent structures or towers, anchors, guys, crossarms, insulators and power/communication cables.
- q Indicate minimum clearances under maximum sag above top of rails and Railway Signals and Communication plants. Add 0.3 m to clearance listed in the latest version of CAN/CSA-C22.3 No. 1 to allow for future track lifts.
- q Horizontal and vertical separation is required between wires and cables.
- q Does this affect sight line issues, or disrupt sight to CN Signal Mast

Government of Canada – Justice Laws Website where you can review the Wire Crossings and Proximities Regulations can be found at:

http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,_c._1195/

Please provide a cover letter indicating the location, CN milepost , and a brief description of proposed work to be carried out

Applications should be directed to:

GREAT LAKES REGION CN Public Works-Design & Construction CN Administration Building 1 Administration Road Concord, Ontario. L4K 1B9	Attention: Derek Basso Phone: (905) 669-3373 Email: permits.gld@cn.ca
CHAMPLAIN REGION: QUEBEC, OTTAWA, CN Public Works-Design & Construction Engineering Services Administration Champlain Tour M-Floor 1 8050 Cavendish Montreal , QC H4T 1T1	Attention: Julien Leblanc Phone: (514) 734-2027 Email: aicha.bouharira@cn.ca
ATLANTIC REGION: NEW BRUNSWICK, NOVASCOTIA CN Design & Construction Moncton Office 255 Hump Yard Road Moncton, NB E1E 4S3, CA	Attention: Alicen Thorne Phone: (506) 853-2985 Email: alicen.thorne@cn.ca

