Enbridge Pipeline Crossing Guidelines, Canada

Application Guidance Details May 2020 v2.0

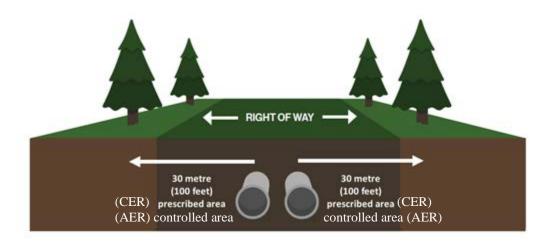


Application Guidance Details

1. WHO REQUIRES CONSENT?

Consent is governed by the Canada Energy Regulator (CER) for interprovincial or international (federally regulated) pipelines and the Alberta Energy Regulatory (AER) for intra-provincial (provincially regulated) pipelines within the Province of Alberta. To ensure our pipelines and facilities operate safely written consent from Enbridge must be obtained in Canada before any of the following occur:

- Construction or installation of a new facility across, on, along or under Enbridge's pipeline and/or right-of-way;
- Ground disturbance activities in the prescribed area (CER) or controlled area (AER) which extends 30m from each side of the centerline of the pipeline;
- Operation or movement of vehicles, mobile equipment or machinery across Enbridge's right-of-way, outside of the travelled portion of a highway or public road;
- Using explosives within 300m of Enbridge's pipeline right-of-way;
- Use of the prescribed area or controlled area for storage or workspace purposes;
- Subdivision development across, on, along or over Enbridge's pipeline and/or right-of-way;
- Landowners wishing to install agricultural drainage tile across, on, along or under Enbridge's pipeline and/or right-of-way.



Activities that cause a ground disturbance include, but are not limited to, the following:

- diggingexcavation
- trenching
- ditching
- tunneling
- boring/drilling/pushing
- augering
- topsoil stripping
- land levelling/grading

- clearing and stump removal
- subsoiling
- blasting/using explosives
- quarrying
- grinding and milling of asphalt/concrete
- seismic exploration
- driving fence posts, bars, rods, pins, anchors or pilings
- plowing to install underground infrastructure
- crossing of buried pipelines or other underground infrastructure by heavy loads off the travelled portion of a public roadway
- tree or shrub planting
 installing agricultural drainage tile

Under section 2 of the Canadian Energy Regulator Act, ground disturbance does not include:

- Cultivation to a depth of less than 45cm below the surface of the ground
- Any activity to a depth of less than 30cm and that does not result in reduction of the depth of earth cover over the pipeline less than that approved at time of construction



2. CROSSING A PIPELINE WITH AN AGRICULTURAL VEHICLE OR MOBILE EQUIPMENT

For pipelines regulated by the Canada Energy Regulator, the *Canadian Energy Regulator Pipeline Damage Prevention Regulations – Authorizations* provides that persons operating agricultural vehicles or mobile equipment across pipelines may do so in low-risk areas, under certain conditions:

- the loaded axle weight and tire pressures of the vehicle or mobile equipment are within the manufacturer's approved limits and operating guidelines; AND
- the point of crossing has not been the subject of a notification from the pipeline company that crossing at that location could impair the pipeline's safety or security.

This applies to vehicles or mobile equipment used for agricultural activities in the production of crops and the raising of animals and includes pasturing and cultivation activities such as tillage, plowing, disking and harrowing.

For pipelines regulated by the Alberta Energy Regulator, the *Pipeline Regulation (under the Pipeline Act)* provides that persons operating vehicles or equipment used for farming operations; or use of off-highway vehicles [as defined in section 117(a)(iii) to (viii) of the Traffic Safety Act] or use of private passenger vehicles (as defined in section 1(1)(jj) of the Traffic Safety Act) less than ¾ ton may temporarily cross over an AER regulated pipeline without further approval from Enbridge.

However, if neither of the above requirements can be met then an application must be submitted to Enbridge for further review and processing.

3. HOW TO APPLY FOR ENBRIDGE CONSENT

The applicant must submit a written request, either by completing the Application Form (attached) or a letter with equivalent information, together with the applicable drawing(s) to the respective Enbridge crossings department as set out in the *Contact Us* section of this document.

The drawing(s) must be prepared in accordance with the minimum standards as set out in the *Drawing Requirements* section of this document.

Enbridge's Equipment Specification and Data Sheet (attached) must also be completed for any vehicle/ mobile equipment crossing applications.

For federally regulated pipelines, the applicant may petition the Commission for approval of construction activity if:

- the applicant cannot comply with the terms and conditions as set out in the company's written consent;
- the applicant feels the terms and conditions in the company's written consent are excessive; or
- If the company refused to grant approval to the applicant for reasons of pipeline integrity, public safety or company policy.

An application can be filed with the Commission by writing to:

Secretary of the Commission Canada Energy Regulator Suite 210, 517 – 10th Ave SW Calgary AB T2R 0A8 Phone: 1-877-288-8803

Online: www.cer-rec.gc.ca

Applications may be filed with the Commission by mail, courier or facsimile by calling the toll-free number at 1-877-288-8803. Applications can also be uploaded through the CER's Applications and Filings Portal on the CER website at Home / Applications and Filings / Submit Applications and Regulatory Documents / File under the CER Act / OPR: CER Act – Guide C (http://www.cer-rec.gc.ca/pplctnflng/sbmt/nbpr-eng.html).



4. DRAWING REQUIREMENTS

The following represents the minimum information that is required to be shown on the drawing(s) in order for Enbridge to review your application. Dimensions must be shown on the drawing(s) and may be done in either imperial or metric units (if metric, then to one decimal point).

NOTE: incomplete drawings and/or an incomplete application will be rejected back to the applicant.

(a) Permanent Installations

All proposed permanent installation drawings MUST contain the following items:

- 1. Plan Number, including any revision number and the respective date;
- 2. North Arrow;
- 3. Scale:
- 4. Legend;
- 5. Location indicator including: legal land description, PIN, GPS coordinates;
- 6. Plan view of whole quarter section or affected area including:
 - Lot lines, road limits
 - Proposed facilities (including curbs, footing, guard rails, guy wires, poles, fences, etc.) with tie dimensions to lot survey line preferably along pipeline and/or right-of-way boundary
 - Location of cathodic test lead terminals (if applicable);
- 7. Cross section view and/or profile view including:
 - ❖ For surface structures, show profile along pipeline(s) with highest elevation
 - For underground facilities show profile along facility
 - Property lines, pipeline(s) and depth of cover
 - All underground facilities must maintain an even elevation across the entire width of right-of-way except for gravity type facilities or those facilities installed by HDD;
 - Drill path plan for HDD installations
 - Unsupported span (m) of Enbridge pipeline for open cut installations
- 8. Crossing Angle;
- 9. Crossing location circled in red;
- 10. Identify all affected Enbridge facilities, right-of-way(s) and pipeline markers;
- 11. Method of Installation (MOI) (*Refer to Interpretation/Definitions section);
- 12. Minimum Clearance (*Refer to Interpretation/Definitions section);
- 13. Facility specifications:
 - PIPE/CABLE: pipe diameter, pipe material, product conveyed, cable size, if cable is within a conduit, conduit material, cable voltage; unsupported span (meters) of existing pipeline if MOI is open cut;
 - ROAD: width of road, cover at ditch, cover at center of road, surface material, road type/use; design loading calculation: indicate if any Government or Provincial setback requirements
 - ❖ OVERHEAD POWER: pole number(s), location of pole/guy wire/anchors/etc., method of installation of pole/guy wire/anchors/etc., horizontal clearance to pipe from proposed pole/guy wire/anchors/etc., vertical clearance to ground/grade, voltage, type of power (AC/DC), AC mitigation plan may be required:
 - PIPE RACK: height of pipe rack, pile location(s), pile clearance to Grantor's facility, pile installation method; alternate access route provided for rural locations
 - ❖ DRAINAGE TILE: location of tiles and incremental cost analysis.
- 14. Complete the Equipment Specification and Data Sheet, when required.



(b) Temporary Activities

All temporary drawings MUST contain the following:

- 1. Plan Number, including any revision number and the respective date;
- 2. North Arrow;
- 3. Scale;
- 4. Legend;
- 5. Location indicator including: legal land description, PIN, GPS coordinates;
- 6. Plan view of whole quarter section or affected area;
- 7. Temporary activities location circled in red;
- 8. Identify all affected Enbridge facilities, right of way(s) and/or PLA/easement ownership;
- 9. Facility specifications:
 - ❖ WORKSPACE: location, measurement of workspace, purpose;
 - ACCESS OF ROW: location, kilometer usage of ROW, width of access; egress/ingress points, complete the Equipment Specification and Data Sheet (attached);
 - * EQUIPMENT CROSSING: complete the Equipment Specification and Data Sheet (attached);
 - ROAD USE: indicate road(s) to be utilized, km usage, reason required, frequency of use; complete the Equipment Specification and Data Sheet (attached);
 - GEOPHYSICAL: project/prospect name, number of reading units/lines, type of source, CER approval required (Y/N).

5. INTERPRETATION / DEFINITIONS

For crossing application purposes, Enbridge defines the following as:

Grantee means the applicant or the facility owner; a company, a person, a municipality or government body, etc.

Method of Installation means OPEN CUT or HDB or HDD; all defined as follows:

OPEN CUT

Enbridge defines open cut as trench methodology wherein access is gained to the required level underground for the proposed installation, maintenance or inspection of a pipe, conduit or cable. The excavated trench is then backfilled and the surface restored.

HORIZONTAL DIRECTIONAL BORE (HDB)

Enbridge defines horizontal directional bore as meeting ALL of the following:

- (a) The designed horizontal distance of the crossing shall be less than or equal to 150m (500ft) in length; AND
- (b) The depth of the pipeline installation shall be limited to 8m (25ft) to the centre (cross-section) of the pilot hole and measured to the corresponding surface location; AND
- (c) Straight alignment in the horizontal plane; AND
- (d) Pilot bit is steerable and trackable.

HORIZONTAL DIRECTIONAL DRILL (HDD)

Enbridge defines horizontal directional drill as an *HDB* that DOES NOT meet all of the criteria for an *HDB*. An *HDD* will satisfy some but not all of: a, b and c above and will satisfy d.



Minimum Clearance means the required distance between the existing Enbridge facility and the proposed facility based on the selected *Method of Installation*.

Minimum clearance required for installation ABOVE Enbridge facility	by OPEN CUT is 0.3m
Minimum clearance required for installation BELOW Enbridge facility	by OPEN CUT is 0.6m
Minimum clearance required for installation BELOW Enbridge facility	by HDB is 1.0m
Minimum clearance required for installation BELOW Enbridge facility	by HDD is 3.0m
Minimum clearance required for road installation from bottom of ditcleand from centerline of road to top of Enbridge facility is 1.2m	h to top of Enbridge facility is 0.9m
Minimum clearance required for railway installation from bottom of facility is 1.83m and from centerline of rail bed to top of Enbridge und	
Minimum clearance required for railway installation from bottom of dit is 0.91m and from centerline of rail bed to top of Enbridge cased facil	

6. WRITTEN CONSENT

After applying for written consent, Enbridge will review the proposed installation and/or temporary activities application in order to ensure that the proposed work will not pose a risk to existing Enbridge facilities, as well as, to ensure that any access required to existing facilities for maintenance or in an emergency situation will not be impeded.

Some applications may require further engineering assessment which will require additional time to review the proposed installation and/or temporary activities prior to Enbridge issuing consent. All efforts will be made to provide an agreement within an appropriate timeframe, however, please ensure that your application request is submitted with ample lead time.

7. CONTACT US

To obtain written consent from Enbridge, please contact the respective office as set out below:

REGION	CONTACT INFORMATION
LIQUIDS PIPELINES - WESTERN CANADA	Lands & ROW
(Alberta, Saskatchewan, Manitoba	330, 10180 – 101 Street
and Norman Wells)	Edmonton AB T5J 3S4
	Email: crossingrequests@enbridge.com
	Phone: 780-378-2228
LIQUIDS PIPELINES - EASTERN CANADA	Lands & ROW
(Ontario and Quebec)	1st Floor, 1086 Modeland Road, Bldg 1050
	Sarnia ON N7S 6L2
	Email: est.reg.crossing@enbridge.com
	Phone: 1-800-668-2951
GAS PIPELINES / STORAGE - BRITISH COLUMBIA	Lands & ROW
	200, 425 – 1 Street SW
	Calgary AB T2P 3L8
	F
	Email: <u>crossings@enbridge.com</u>
	Phone: 587-747-6538



GAS STORAGE - ONTARIO	3501 Tecumseh Road Mooretown ON N0N 1M0
	Email: chris.pincombe@enbridge.com Phone: 519-862-6092
GAS PIPELINE - ALLIANCE	Lands & ROW 600, 605 – 5 Ave SW Calgary AB T2P 3H5
	Email: crossings@alliancepipeline.com Phone: 403-266-4464

For more information on Enbridge Gas Distribution please click the link: https://www.enbridgegas.com/gas-safety/pipeline-safety.aspx

8. ONE CALL CENTRES

Before putting a shovel in the ground, whether it is in your backyard or a commercial jobsite, please do a locate request to safely identify any buried utility lines at www.clickbeforeyoudig.com.

Your local one call centre can also be reached by phone as shown below:

CALL OR CLICK BEFORE YOU DIG!! Contact your respective one-call centre					
British Columbia https://www.bconecall.bc.ca/ 1-800-474-6886	Alberta http://albertaonecall.com 1-800-242-3447				
Saskatchewan Manitoba www.sask1stcall.com http://www.clickbeforeyoudigmb.com/ 1-866-828-4888 1-800-940-3447					
Ontario www.on1call.com 1-800-400-2255	Quebec <u>www.info-ex.com</u> 1-800-663-9228				
Northwest Territories 1-867-587-7000 Or contact the pipeline company directly					

9. REGULATORS

In Canada, Enbridge has pipelines that are regulated by both the federal government and provincial governments. For more information on any of the regulators please visit their respective website.

Canada Energy Regulator: www.cer-rec.gc.ca

Alberta Energy Regulator: www.aer.ca

10. DEVELOPMENT ON OR NEAR THE RIGHT-OF-WAY

Enbridge should be consulted early in the design phase with regards to proposed subdivisions, roads and utilities, and municipal landscaping.

Subdivisions – Enbridge highly recommends that our right-of-way be used as a passive green space or as part of a linear park system. Permanent structures on the right-of-way are not permissible.



Roads and Utilities – Roads may be permitted to cross and/or run parallel to the right-of-way but no portion of a road allowance can be located on the right-of-way (apart from approved road crossings). Enbridge will review the location of utilities which are often proposed within the road allowance.

Landscaping – Projects such as pedestrian pathways may be permitted as long as they do not impede Enbridge's access along its right-of-way for operational and/or maintenance activities. Enbridge's written consent will specify the permitted landscaping requirements.

11. DAMAGE PREVENTION

Enbridge's underground facilities must be positively identified, to Enbridge's satisfaction, prior to the start of any proposed construction activities.

Enbridge's representative(s) have the authority to stop work at any time due to safety, environmental or operational concerns and/or unforeseen circumstances or emergency situations.

**IMMEDIATELY NOTIFY ENBRIDGE IF YOU COME INTO CONTACT WITH THE PIPE! **

As a small scratch or dent in the pipeline's coating can impact long term safety of the pipeline and must be assessed by Enbridge.

Please note that obstacles or un-approved above ground installations located on an Enbridge right-of-way, such as sheds, trailers, boats and pools can interfere with Enbridge's access of their right-of-way. Permanent structures on the right-of-way are NOT permissible.

Enbridge must be contacted before conducting any blasting activities within 300m of the pipeline right-of-way so that Enbridge can review the proposed plans in order to see if there might be potential impacts to its facilities. Blasting activities related to prospecting for mines and minerals within 40m of a federally regulated pipeline right-of-way requires permission from the Canada Energy Regulator.

12. EMERGENCY SITUATIONS

In an emergency situation please provide as much notice, as is practicable, to Enbridge prior to commencement of any construction, excavation, installation or temporary crossing of existing pipelines and/or right-of-ways in order to access the emergency site.

Enbridge classifies an emergency situation as:

- A risk to human life;
- * Required emergency repairs of public services; or
- To contain an environmental emergency.

In an emergency situation please call: **1-877-420-8800** (toll free) and/or contact your local One Call provider at the numbers listed in section 8.

DISCLAIMER: THESE GUIDELINES ARE INTENDED TO PROVIDE USEFUL CROSSING APPLICATION GUIDANCE INFORMATION TO THE APPLICANT. SUBMISSION OF AN APPLICATION MEETING THE REQUIREMENTS AS SET OUT HEREIN DOES NOT CONSTITUTE WRITTEN CONSENT FROM ENBRIDGE. ALL APPLICATIONS WILL BE REVIEWED BY ENBRIDGE TO DETERMINE WHETHER THE APPLICATION WILL BE APPROVED.





THIRD PARTY CROSSING APPLICATION FORM

APPLICANT INFORMATION	
Grantee* Full Legal Name for Agreement:	Regulator: Other:
Grantee Address for Service:	
Grantor/Enbridge Entity	
Application by Broker/Land Consultant Yes ☐ No ☐	Broker/Land Consultant Name:
Contact Person Name:	Contact Person Phone Number:
File Number:	
Broker/Land Consultant Address:	
CROSSING INFORMATION	
Expected construction start and end date(s):	
Permanent Installation	Temporary Activities
Crossing Drainage Tile Pole/Pile Installation Other	Workspace Equipment Crossing Access of ROW Geophysical Road Use Proximity Other Other
Location indicator including affected legal land Longitude Decimal Degree):	description(s), PIN and GPS Coordinates (Latitude and
Grantor's Affected Disposition(s) (Alberta) (i.e. F	PLA # or License # or Line #):
Grantee's Field Contact Information:	
Name: Phone: Email:	



THIRD PARTY CROSSING APPLICATION FORM

Details of Grantee's Proposed Permanent Installation and/or Purpose of Temporary Activities

Method of Installation* (For permanent installations) Open Cut ☐ HDB ☐ HDD☐
Drawing(s) Attached Yes ☐ No ☐
Drawing Requirements Met * Yes □ No □
Equipment Specification and Data Sheet Attached * Yes \[\subseteq No \[\subseteq N/A \[\subseteq \]
Notes/Additional Information:

SUBMIT TO:

LIQUIDS PIPELINES WESTERN CANADA (Alberta, Saskatchewan, Manitoba and Norman Wells)	LIQUIDS PIPELINES EASTERN CANADA (Ontario and Quebec)
Department: Lands & ROW	Department: Lands & ROW
Address: 330, 10180 – 101 Street Edmonton AB T5J 3S4	Address: 1 st Floor, 1086 Modeland Road, Bldg 1050 Sarnia ON N7S 6L2
Email: crossingrequests@enbridge.com	Email: est.reg.crossing@enbridge.com

Equipment Specification and Data Sheet(s)



In order to properly conduct an analysis on the requested crossing the following general information and appropriate data sheets are required to be completed.

Steps:

- 1. Complete the *Applicant Information and Details* document for each crossing application
- 2. Add and complete the Data Sheet Equipment or Vehicle with Tires for EACH piece of equipment
- 3. Add and complete the Data Sheet Equipment with Tracks for EACH piece of equipment
- 4. Return fully completed general information and data sheets and any other pertinent information

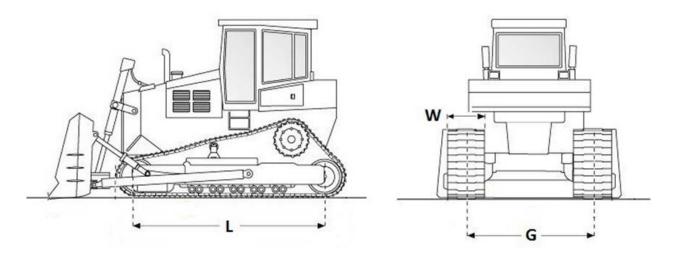
Applicant In	formation					
Applicant Name	:					
Applicant Conta	ct Person Name:					
Email:						
Phone Number:						
Applicant Refer	ence/File Number:					
5 ()						
Details						
Description and	Purpose of Crossin	ng:				
Location Indicat	or (legal land descr	iption. PIN. etc.)				
Location Indicator (legal land description, PIN, etc.)						
GPS Coordinate	es:(Latitude and Lor	ngitude Decimal Degre	ee)			
Duration:		Temporary Permanent				nt
Start Date:			End Date:			
Equipment or V	ehicle with Tires:	Yes	No)	Datasheet:	
Equipment with	Tracks:	Yes	No	_ 	Datasheet:	

Data Sheet – Equipment with Tracks



Complete this data sheet for each piece of equipment with tracks.

Equipment with Tracks			INDICATE UNITS	
Manufactu	rer:			
Model:				
Equipment Description:				
Fully Loade	ed Gross Vehic	le Weight:		
		Shoe Width	ength on Ground efer to L below)	Track Gauge (on center) (refer to G below)
Units				
Track				

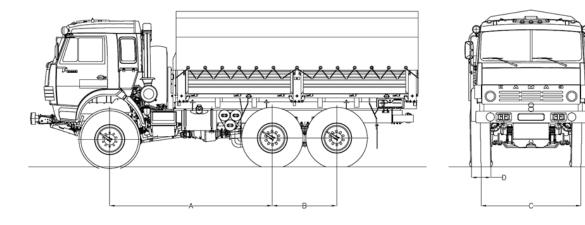


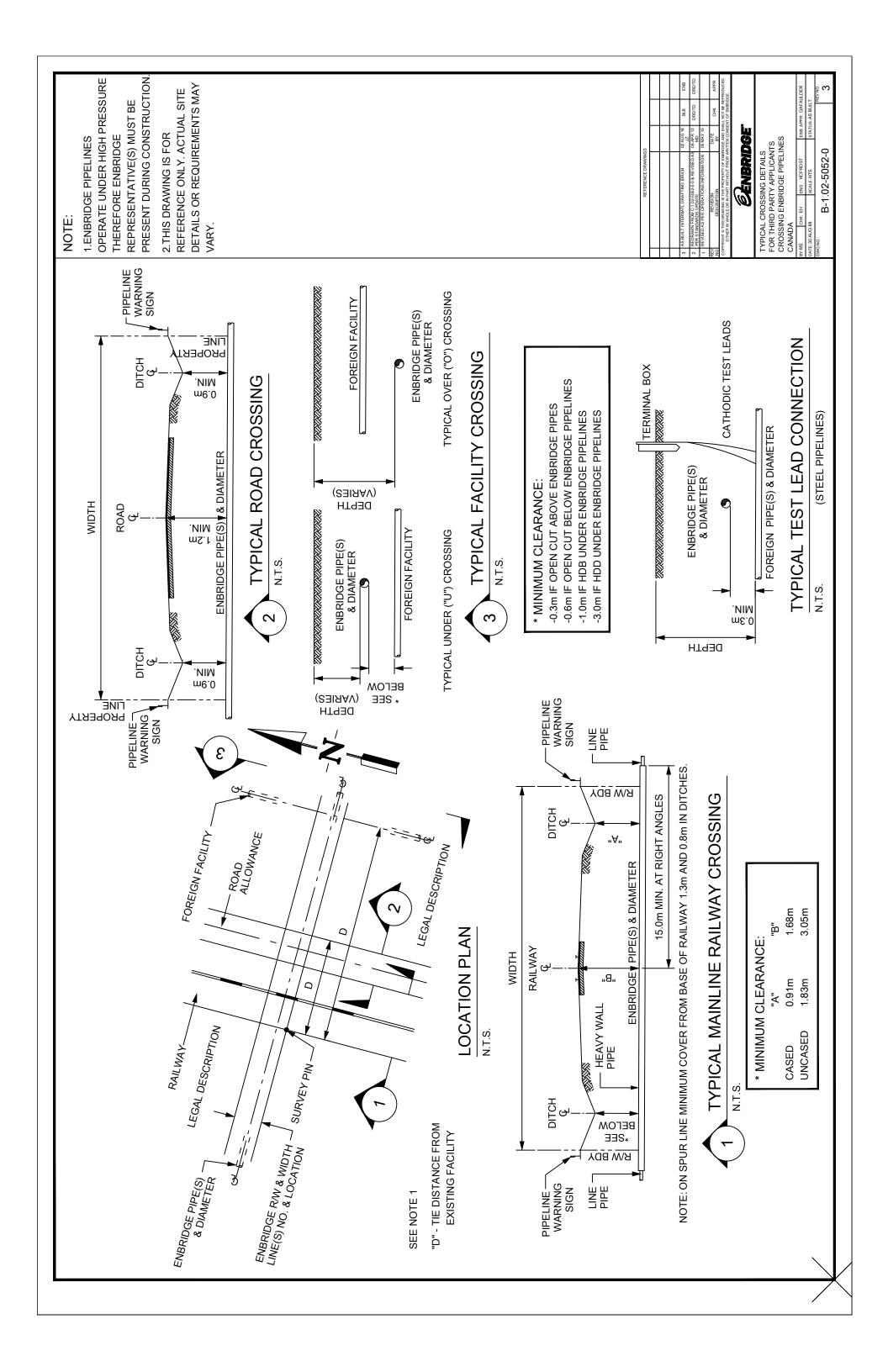


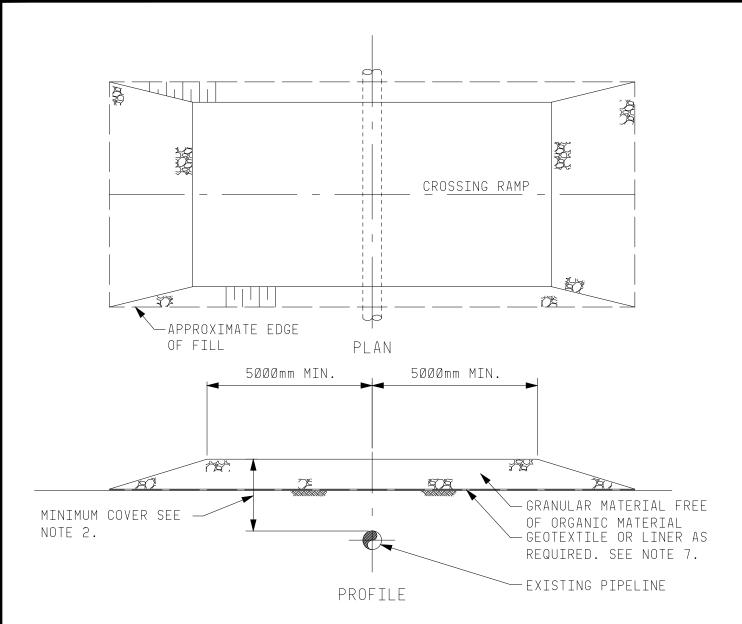


Complete this data sheet for **EACH** piece of equipment or vehicle with tires. *EXCLUSION: pick up trucks of one ton or less*

Equipment or Vehicle with Tires			INDI	INDICATE UNITS				
Manufactui	rer:							
Model:								
Equipment	Description:							
Fully Loade	ed Gross Vehicle	e Weight:						
Road legal	without overwe	ight permit?	Yes			No		
Axle Loaded of		Numbe of Tires PER Ax	Tire Wid	ı ıır	e Pressure	be Ti Cer	etween ire Set nterlines r to C below)	Centerline Distance to Previous Axle (refer to A below) (refer to B below)
Units								
Steering								
2 nd								
3 rd								
4 th								
5 th								
6 th								
7 th								







NOTES:

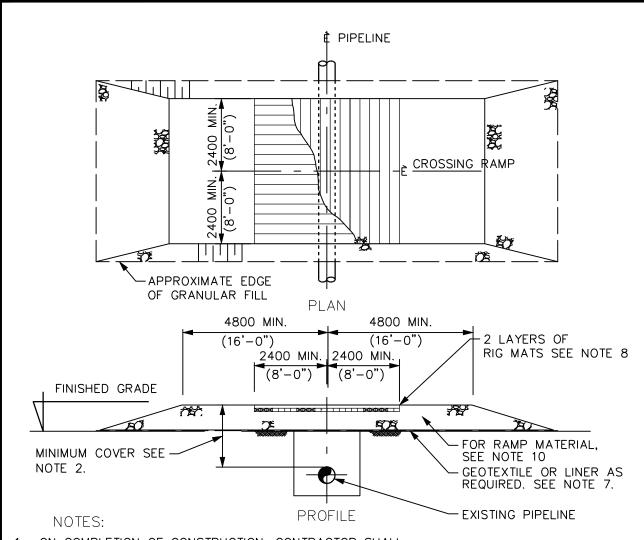
- 1. ON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL REMOVE COMPLETE RAMP AND RESTORE AREA TO ORIGINAL CONDITION.
- 2. MINIMUM COVER SHALL BE AS SPECIFIED IN THE CROSSING AGREEMENT.
- 3. LENGTH OF RAMP TO VARY IN ACCORDANCE WITH CROSSING ANGLE.
- 4. RAMP WIDTH SHALL BE MINIMIZED AS MUCH AS POSSIBLE, AND SHALL NOT ENCROACH BOUNDARIES SET IN THE CROSSING AGREEMENT.
- 5. RAMP SIDE SLOPE SHALL NOT BE STEEPER THAN 1V:4H.
- 6. RAMP SHALL BE COMPACTED, AND HAVE A CROSS FALL TO ENSURE THAT WATER WILL NOT POND ON THE RAMP CAUSING EXCESSIVE RUTTING.
- 7. A GEOTEXTILE OR LINER BARRIER TO BE INSTALLED AT THE DISCRETION OF THE ENBRIDGE FIELD REPRESENTATIVE.
- 8. REFER TO DRAWING A-1.8-43105 FOR FRENCH VERSION.
 REFERE AU DESSIN A-1.8-43105 POUR VERSION FRANCAISE.

A-1.	8-43105-0 TYPICAL DESIG	GN DETAIL		
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1	AS BUILT INTERNAL DRAFTING ID 304	20 MAR 18 BLB	GB	ENBRIDG
REV NO.	REVISION DESCRIPTION	DATE BY	CHK	APPR.

EENBRIDGE

TYPICAL DESIGN DETAIL
TYPICAL TEMPORARY CROSSING RAMP
WITH EARTH

BY: GB	CHK: GG	ENG.:	ENB APPR:		
DATE: 14 F	EB 18	SCALE: NTS	STATUS: AS BUI	LT	
DWG. NO.:		REV. NO:			
	2				



- ON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL REMOVE COMPLETE RAMP AND RESTORE AREA TO ORIGINAL CONDITION.
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- 6. RAMP SHALL BE COMPACTED, AND HAVE A CROSS FALL TO ENSURE THAT WATER WILL NOT POND ON THE RAMP CAUSING EXCESSIVE RUTTING.
- 7. A GEOTEXTILE OR LINER BARRIER TO BE INSTALLED DURING SPRING, SUMMER AND FALL SEASONS.
- 8. RIG MATS SHALL BE STAGGERED OR PLACED IN A PERPENDICULAR ORIENTATION FROM THE PREVIOUS LAYER SO THAT THE EDGES DO NOT LINE UP
- 9. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
- 10. SNOW OR ICE CAN BE USED AT THE DISCRETION OF THE ENBRIDGE FIELD REPRESENTATIVE.
- 11. REFER TO DRAWING A-1.8-43106 FOR FRENCH VERSION.
 REFERE AU DESSIN A-1.8-43106 POUR VERSION FRANCAISE.

I3106-0 TYPICAL DESIGN	DETAIL		
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	20 JUN 19 MF	AE	ENB
S PER IDR 583	11 JAN 19 MM	BLB	ENB
S BUILT INTERNAL DRAFTING ID 304	20 MAR 18 BLB	GB	ENBRID
REVISION DESCRIPTION	DATE BY	СНК	APPR
F	REFERENCE DRAWIN S BUILT DR IDR 743 RENCH TRANSLATION REFERENCE S FER IDR 855 S FULL TIMITERNAL DRAFTING ID 304 REVISION REVISION	REFERENCE DRAWINGS S BUILT DR IDR 743 S BUILT DR IDR 743 RENCH TRANSLATION REFERENCE 11 JAN 19 S FER TRANSLATION REFERENCE 11 JAN 19 S FER TRANSLATION REFERENCE 12 JUL 1 INTERNAL DRAFTING ID 304 2 MART BUILT INTERNAL DRAFTING ID 304 DATE	REFERENCE DRAWINGS S BUILT OR IDR 743 S BUILT OR IDR 743 S FER IDA 83 S FER IDA 83

ENBRIDGE

TYPICAL DESIGN DETAIL
TYPICAL TEMPORARY CROSSING RAMP
WITH RIG MATS

DWG. NO.: A-1.8-42873-0				REV. NO:
DATE: 14 FEB 18		SCALE: NTS	STATUS: AS BUILT	
BY: GB	CHK: GG	ENG.:	ENB APPR:	