



Lethbridge County Policy Handbook

EFFECTIVE: February 7, 1975

SECTION: 300 NO. 353 Pge 1 of 6

APPROVED BY: County Council

SUBJECT: Pipeline and Canal Crossings

REVISED DATE: September 1, 2016

1. GENERAL CONDITIONS

- 1) The applicant of any proposed pipeline crossing within Lethbridge County's road allowance or other property shall submit a written application together with one detailed set of drawings to Lethbridge County for approval, prior to any works being undertaken.
- 2) The applicant shall accept responsibility for road closures, register all road closures at the Picture Butte office and include a plan for the erection of proper signs, barricades, etc.
- 3) The applicant shall assume the role of "Prime Contractor" for the entire duration of the project and shall accept all responsibilities for accidents, injuries, incidents, and property damage as a result of the applicant's activities.
- 4) The Director of Municipal Services or designate shall be authorized to approve or deny applications and outline specifications or requirements which are necessary, and may also authorize deviations from the County's requirements.
- 5) The applicant shall sign an agreement to comply with all conditions set forth in the approval.
- 6) All approvals shall contain the following basic conditions:
 - Seventy-two hours' notice must be given to the County prior to commencing any activity.
 - Owner must carry general liability insurance covering bodily injury and property damage. Proof of insurance must be provided with the application.
 - Owner must meet all conditions as set forth in the approval or be subject to the County restoring the site to original condition and charging the owner for all costs incurred.
- 7) All Pipelines crossing all road allowance, either developed or undeveloped, are required to be installed at a minimum depth of 2.5 metres from the top of the pipeline to the lowest ditch elevation. The Director of Municipal Services or designate may require and increased depth of cover depending on the location. Refer to Drawing: 323-05A
7a) The Director of Municipal Services or designate may authorize a reduction in the minimum depth of cover for the pipeline based on engineered plans.
- 8) All pipelines crossing roadways shall be installed by horizontal boring or push-pipe unless otherwise authorized
- 9) All pipeline crossings shall be installed perpendicular (90 degrees) to the road allowance in all circumstances, unless otherwise authorized by the County. Applicant must identify the angle of the proposed pipeline alignment to the County's road allowance.
- 10) All pipelines crossings shall be clearly marked with warning signs on each side of the road allowance as shown Drawing 323-05A. The sign must be placed on the boundary of the road allowance.



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- 11) Other than emergency maintenance work, construction shall take place during the County's working hours without express consent from the County
- 12) The applicant shall be responsible for notifying Alberta One Call prior to any ground disturbance
- 13) The applicant shall be responsible for maintenance of the crossing area for a two (2) year period from completion of the project. The applicant shall perform maintenance at the crossing location as required or as requested by the County. Should the applicant refuse to complete any maintenance required, the County will perform the maintenance and will invoice the applicant for all charges associated with the work required.
- 14) The applicant shall accept responsibility for any damages or repairs required to the applicant's pipeline at the crossing location. The applicant shall also accept responsibility for any repairs required to County infrastructure as a result of the applicant's activities including but not limited to maintenance, repairs, or pipeline failure resulting in damage to County infrastructure. Should the applicant refuse to complete any repairs required, the County will perform the repairs and will invoice the applicant for all charges associated with the work required.
- 15) For any application submitted, the County reserves the right to require the applicant to enter into a crossing agreement.
- 16) The applicant shall provide to the County the name and contact information of the prime and any sub-contractor on site conducting the work.
- 17) Approvals and inspection fees shall be charged in accordance with the Lethbridge County Schedule of Fees By-Law. Upon completion of a post construction site inspection and compliance of all requirements is verified, a \$100.00 portion of the applicant fee will be reimbursed to the applicant.
- 18) The applicant agrees to alter or relocate the pipeline at the applicants sole expense should it be required at any time by the County for construction or maintenance other than as stated in Section 5 Point 8.
- 19) Upon request by the County the applicant agrees to verify any as-built elevations of the applicants pipeline at any location within the road allowance.

2. OPEN CUT INSTALLATIONS

Open Cut installation may be denied by the County, however should it be approved the applicant must comply with the following:

- 1) All backfill material for the roadway structure shall be uniform, suitable, and compacted to a minimum of 95% SPD (Standard Proctor Density) for all lifts from 1.0 metre below finished grade to the bottom pipeline elevation. Material from 1.0 metre below finished grade to 0.3 meters below finished grade shall be compacted to 98% SPD and the final



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lifts from 0.3 metres below finished grade to finished grade shall be compacted to 100% SPD. Compaction lifts shall not exceed 0.15m in depth from finished grade to 1.0m below finished grade. All other lifts shall not exceed 0.3 meters in depth.

- 2) The reuse of material is acceptable, however care must be taken to ensure the material is not contaminated.
- 3) Compaction testing shall be performed on all crossings by a certified soils testing laboratory and testing results must be provided to the County within 24 hours of testing. Compaction testing frequency shall be as follows:
 - a) Minimum one test from pipeline elevation grade to 1.0 metre below finished grade.
 - b) Minimum one test from 1.0 metre below finished grade to 0.3 metres below finished grade
 - c) Minimum two tests from 0.3 metres below finished grade to finished grade
 - d) The Director of Municipal Services or designate may request additional testing as required
- 4) The applicant shall backfill material other than within the roadway structure to 95% SPD.
- 5) The applicant is not permitted to reuse aggregate from the County roadway
- 6) The applicant shall uniformly place aggregate on the road top over the entire disturbed area with Alberta Transportation Designation 4 Class 20 aggregate. A spread rate of 0.5 cubic metres per lineal metre of roadway shall be used.
- 7) A sieve analysis shall be provided to the County for the aggregate to be placed on the County road at least 72 hours prior to placement.
- 8) Pit run shall not be used from finished grade to 0.5 meters below finished grade when backfilling the road crossing.
- 9) The applicant shall be responsible for maintaining the crossing location for a two (2) year period from the completion of the installation. Any settlement of the crossing within a two year period shall be repaired by the applicant within 72 hours of notification at the applicants sole cost to the satisfaction of the Director of Municipal Services or designate.
- 10) Should the roadway condition at the crossing location be deemed by the County as a potential cause of imminent danger then the County will take appropriate steps to mitigate the safety concerns and all repair costs will be invoiced to the applicant.
- 11) Ditch slopes and grades must meet the pre-construction cross section elevation and be uniform throughout. There shall be no impedance of water in the ditch as a result of the pipeline crossing.
- 12) The applicant shall be responsible for stripping the topsoil and stockpiling it separately from other materials. Topsoil shall be uniformly placed back on the backfilled surface and seeded with a grass seed mix as required by the Lethbridge County Agricultural Service Department.



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13) All requirements within Section 2 apply to a typical gravelled county roadway. Any other type of roadway such as asphalt or calcium stabilized shall have different requirements that will be specified on a case by case basis.

3. ENERGY PIPELINE CROSSING

- 1) All pipelines installed parallel to the County's road allowance shall maintain a minimum setback of 15 metres from the road allowance boundary
- 2) All pipeline construction shall conform to the regulations specified by the Energy Resource Conservation Board and the regulations of the Alberta Pipeline Act (1975), or recent revision thereof.
- 3) Pipelines crossing road allowances must extend a distance of 15 metres on either side of the existing road allowance.
- 4) No horizontal or vertical deflections are permitted in the pipeline within 15 metres of the road allowance

4. POTABLE WATER PIPELINE CROSSING

- 1) All waterlines installed parallel to the County's road allowance shall maintain a minimum setback of 15 metres from the road allowance boundary
- 2) No horizontal or vertical deflections are permitted in the pipeline within 15 metres of the road allowance
- 3) There shall be no appurtenances installed within the road allowance including but limited to structure, chambers, valves, signs, etc. unless otherwise approved by the Director of Municipal Services or designate.

5. IRRIGATION OR RAW WATER PIPELINE CROSSING

- 1) All pipelines installed parallel to the County's road allowance shall maintain a minimum setback of 15 metres from the road allowance boundary
- 2) Applicant must provide a detailed cross section drawing of the crossing location showing key elevations of the entire roadway structure and ditches within the road allowance
- 3) There shall be no appurtenances installed within the road allowance including but limited to structure, chambers, valves, signs, etc. unless otherwise approved by the Director of Municipal Services or designate.
- 4) Applicant must indicate the size and type of material of the pipeline
- 5) No horizontal or vertical deflections are permitted in the pipeline within 15 metres of the road allowance



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- 6) Applicant must identify any canal closures resulting from the installation of the irrigation pipeline
- 7) Applicant must identify any Bridge File crossings no longer required resulting from the installation of the irrigation pipeline
- 8) The County will provide the applicant 120 days notice to allow sufficient time to relocate or alter the applicant's pipeline. Should the expiration of the 120 day notice period occur after the seasonal shutdown, relocation or alteration to the applicant's pipeline shall be completed by the notice period expiration date. Upon the provision of suitable evidence an extension to the 120 day notice period may be granted if requested. Should the expiration of the notice period occur prior to the completion of the current year irrigation season, the applicant shall immediately upon completion of the current year irrigation season, commence the relocation or alteration to the applicant's pipeline and shall be completed as soon as practicable. In consideration of annual budget approval requirements and timing for detailed design, the County will reserve the right to require pipeline relocation requests made to the applicant prior to February 1st of each year be completed prior to seasonal start-up of that year regardless of the 120 day notice period.

6. IRRIGATION OR RAW WATER CANALS CROSSING

- 1) All irrigation or raw water canals crossing Lethbridge County road allowances shall be designed by a Professional Engineer in the Province of Alberta to the satisfaction of the Director of Municipal Services or designate.
- 2) Any modifications to existing canals whether under an existing crossing agreement or not, shall require a new approval and a new crossing agreement shall be required.

Applicant

Name

Address

Legal Land Description(s)

Signature

Date



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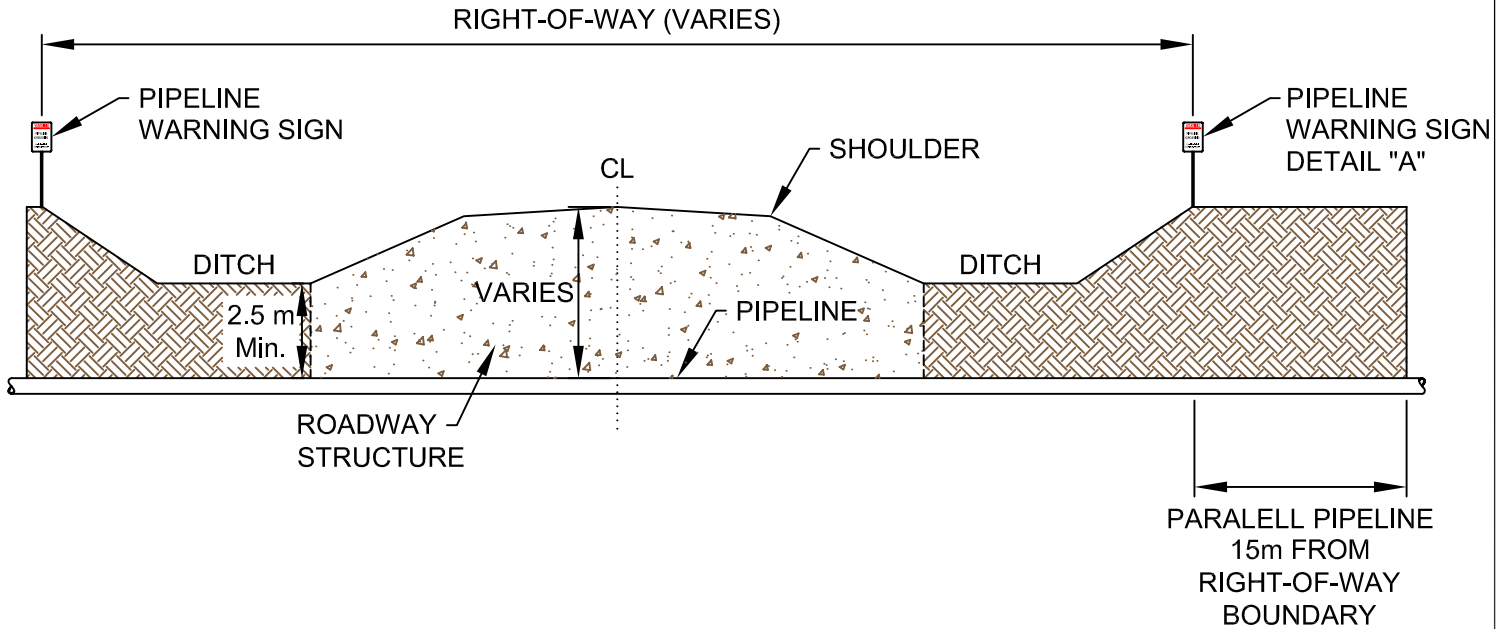
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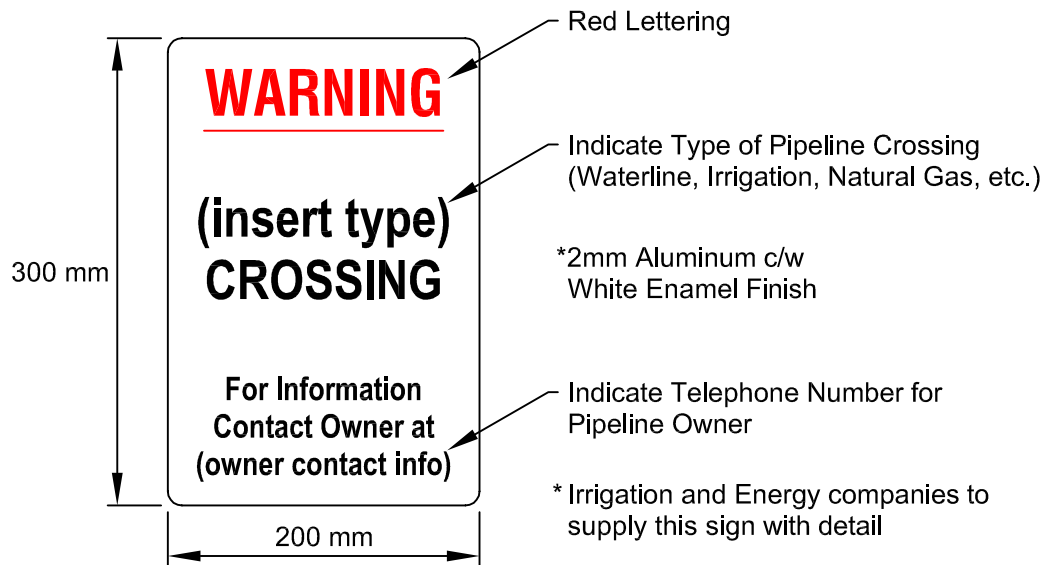
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Lethbridge County Use Only	
Name:	Date Approved:
Title:	Signature:

SECTION VIEW



DETAIL A



Policy # 353
Pipeline and Canal Crossings
Road Allowance Crossing

Drawn by: D. Thiele

Scale: N.T.S.

Date: June 1, 2016

Dwg. No.: 323-05A