

VULCAN COUNTY POLICY NO. 32-1009	Road Construction Policy
Effective: February 2, 2000	Last Amended: January 12, 2022
Cross Reference: MTN2000-02-35	Page 1 of 6
Amended: MTN2011-03-45 MTN2013-02-28 MTN2016-05-32 CC2022-01-12-08	
Review Date:	



Road Construction Policy

PURPOSE

To set guidelines for road construction within the Road Right of Way. Development of roads on Private Lands to service developments shall be conditioned as per the development permit, with the Road Construction Policy being used as a baseline reference, with consideration for current land use such as agricultural activities, land owner interest and municipal purposes being taken into account for the construction design.

POLICY

1. Acquisition of Land for Road Widening Procedures

- a. The prevailing market price for land shall be paid when purchasing land for road widening and this price shall be negotiated between the landowner and County administration. Deeded land will be negotiated with the registered landowner and government lease land will be negotiated with the registered lease holder. Once an agreement has been reached and the agreement has been signed by the landowner, the signing officers of the County shall sign and seal the agreement on behalf of the County.
- b. After appropriate agreements have been signed, the County shall pay in advance 60% of the purchase price and register caveats against the land. When the project is completed and the road plan registered the balance of the purchase price shall be paid and the caveats on the land released.

2. Right of Entries / Fencing Agreement Procedure

- a. The road construction program will be approved by County Council as part of the long-term capital plan. Councillors may choose to bring road construction project requests to Council as part of the annual County budget process whereby divisional road construction needs are considered. Road construction projects shall be approved as part of a four year plan submitted to council by Operations.
- b. Once projects are approved the Director of Operations shall notify the Operations Administrative Assistant of the legal description of the property near which construction will take place. The Director of Operations and the Operations Administrative Assistant shall determine the owner of the property in question and

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“Right of Entries for Road Construction” and “Fencing Agreements” shall be drawn up at this time.

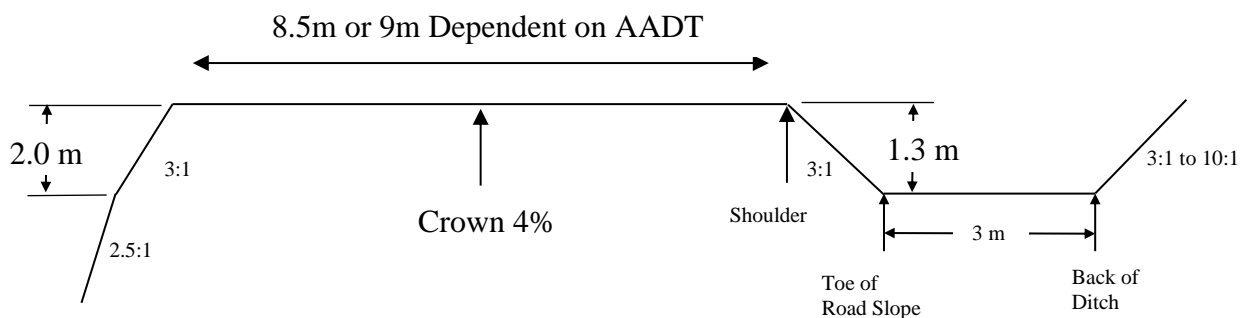
- c. “Right of Entries” and “Fencing Agreements” shall be mailed out to affected landowners with a letter attached outlining the scope of the project. The Director of Operations shall meet with landowners that have questions or concerns and review design profiles with landowners as required. The Director of Agricultural Services may also assist in this area providing they are briefed on project details.
- d. The CAO, Director of Operations or Director of Ag Services may sign on behalf of Vulcan County for Right of Entries and Fencing Agreements.
- e. If necessary, a meeting will be held between the Landowner, Director of Operations, Manager of Engineering and Infrastructure, and Road Construction Foreman prior to the beginning of road construction.
- f. This procedure will also be followed when outside contractors are used.

3. New Road Construction or Widening Standards

- a. Construction is to be performed on a normal 20.1-meter right-of-way as follows;
- b. All local roads shall meet the minimum standard as set by the current version of the Alberta Transportation Highway Geometric Design Guide for Local Roads.
- c. Road top will be a minimum of 8.5 meters wide with a design speed of 90KM/hr. In cases where the Annual Average Daily Traffic Count (AADT) is over 50 or traffic composition is greater than 20% heavy trucks, a road width of 9.0 meters shall apply. The AADT traffic count shall be considered in all road construction.
- d. Shoulders shall be 1.3 meters high from the toe of the road slope unless through a high fill area where greater height is required.
- e. The crown of the road shall be 4% of the distance from shoulder to centre line.
- f. Road slopes shall be 3:1 on fills up to 2 meters and 2.5:1 thereafter.
- g. Ditches shall be 3 meters in width. They may be less if there are obstacles on the property line that may not allow proper backsloping.
- h. Backsloping may be 3:1 or more. If additional dirt is needed, with the landowner’s permission, a backslope of 10:1 or more may be required to obtain extra dirt and make the land farmable. Topsoil shall be replaced on all backslopes.

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- i. All slopes shall be left in a consistent and smooth state when the job is finished.
- j. Culverts must be installed where needed to accommodate runoff.
- k. All rocks shall be picked up and buried in ditch bottoms or used as ditch blocks on steep ditch grades. Rocks shall also be used as rip-rap for culverts when needed.
- l. Approaches should be constructed as per Policy 32-1006 – Approach Construction Policy.
- m. All sight lines, curves and gradients shall meet 90km/hr design speed as outlined in the Alberta Transportation Highway Geometric Design guide for local roads. Where these specifications are economically prohibitive, a lowered posted speed may be placed on the affected section of road and will require a bylaw approved by Council.
- n. The natural drainage of the road right-of-way shall be maintained.
- o. Requests to change any of the above specifications may be brought forward to the Director of Operations and will be reviewed with the Manager of Engineering and Infrastructure and the County’s Consultant/Engineer.



4. Road Construction Requests by Land Owners, Resource & Utility Companies, Commercial Developments and Other Parties for Proposed Private Developments

- a. It is the responsibility of the property owner or developer to construct roads on undeveloped road allowances or private lands to service proposed developments. It is the responsibility of the property owner or developer to build the road to the Industrial Access Road or Resort Road Standard’s outlined in this policy (#32-1009). These conditions shall be outlined in the applicant’s development permit. The applicant shall post all required traffic control signs and the posting of the signs shall be in accordance with the provincial and municipal guidelines and regulations. Applications involving extraordinary circumstances, not covered in this policy shall be

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referred to Council for discussion and direction. All costs shall be borne by the applicant.

5. Roads Built to Industrial Access Road Standards

- a. Request permission of the County to build on a road allowance.
- b. The approved road must be built with an 80km/hr design speed with a 0.60 metre grade and a minimum of a 6.0 meter wide finished road surface, providing AADT counts are not anticipated being over 25 vehicles per day and the road terminates at the lease or access site. If the road does not terminate and serves as a connector between two Range Roads or two Township Roads, standard specifications for 20.1 meter right of way shall apply.
- c. Industrial Access roads shall meet the minimum standard as set by the current version of the Alberta Transportation Highway Geometric Design Guide.
- d. Approaches must be constructed as per Policy 32-1006 Approach Construction Policy.
- e. All ditches and road allowances must be seeded to grass.
- f. All backslopes to be covered with topsoil.
- g. The natural drainage of the road right-of-way shall be maintained.
- h. The developer must enter into a “Right of Entry for Road Construction” and “Fencing” agreement with landowners adjacent to the right-of-way being developed.
- i. All new fences shall be located on the appropriate boundaries and shall be constructed to a minimum of County standards.
- j. As these are the minimum standards set forth, the County reserves the right to require roads be built to a higher standard if AADT or traffic type warrants.

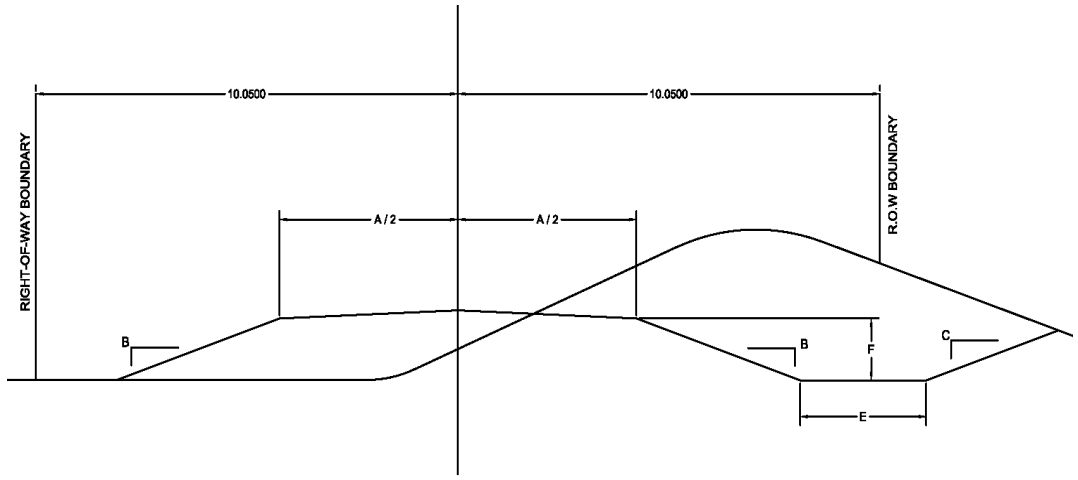
6. Roads Built to Resort Road Standards

- a. Request permission of the County to build on a road allowance.
- b. The approved road must be built with a 1.0 metre grade and a minimum of a 8.0 metre wide road surface.

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- c. Resort roads shall meet the minimum standard as set by the current version of the Alberta Transportation Highway Geometric Design Guide.
- d. Approaches must be constructed as per 32-1006 Road Approach Construction Policy.
- e. AADT counts shall be taken into consideration prior to road development.
- f. The natural drainage of the road right-of-way shall be maintained.
- g. All ditches and road allowances must be seeded to grass.
- h. All backslopes to be covered with topsoil.
- i. The developer must enter into a “Right of Entry for Road Construction” and “Fencing” agreement with the adjacent landowners.
- j. All new fences shall be located on the appropriate boundaries and constructed to the minimum County standards.
- k. As these are minimum standards the County reserves the right to require roads be built to a higher standard.

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	Surface width		Design Speed/Posted Speed		Minimum Side slope		Minimum Back-Slope		Minimum horizontal radius		Crown		Maximum Gradient		Ditch width		Avg. Height of Fill	
	A	B	B	C	D	D	E	F										
	metre	km/h	Ratio	Ratio	metre	Percent	Percent	metre	metre									
Developed Road	8.5	90 / 80	3:1	3:1	340	4	9	3	1.3									
Developed Road (AADT greater than 50 or more than 20 % Heavy Trucks)	9	90 / 80	3:1	3:1	340	4	9	3	1.3									
Industrial Access Road	6.0	80 / 80	3:1	3:1	340	4	9	1	0.6									
Resort Road	8.0	80 / 80	3:1	3:1	340	4	9	1	1.00									

7. Additional Policies That May Apply

- a. Approach Construction policy 32-1006
- b. Private Driveway policy 32-1012
- c. Vulcan County Road Work and Fencing Agreement