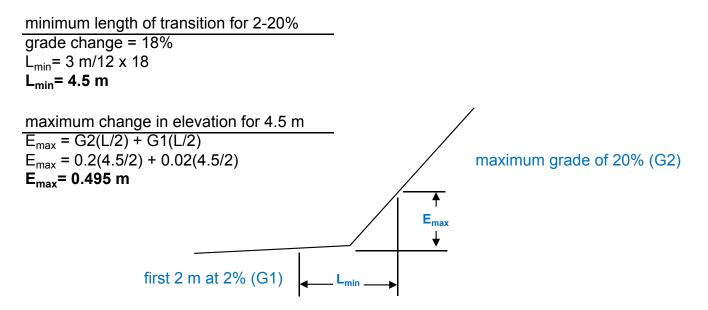


CALCULATIONS

This is a guide to designing driveways in order to ensure the design complies with District guidelines. The criteria is as follows:

- driveway crossing permit fee: \$75
- maximum grade from edge of pavement for 2 m: 2%
- maximum grade of driveway: 20%
- A 4.9 m apron is required out of the garage with the following maximum grades:
 - for driveways sloping down from road the maximum apron grade: 8%
 - for driveways sloping up to garage the maximum apron grade: 5%
- Vertical transitions are required to reach the maximum grades, and are required to follow the TAC manual for Canada. The TAC manual states that, for driveways on local roads, the maximum grade change of 12% over a horizontal distance of 3 m satisfies vertical clearance requirements for most vehicles.

for grade change 2-20% condition

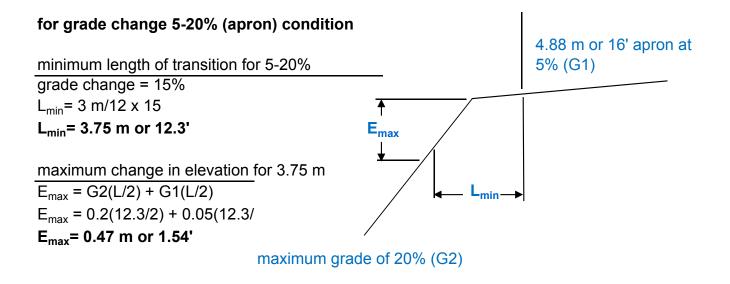




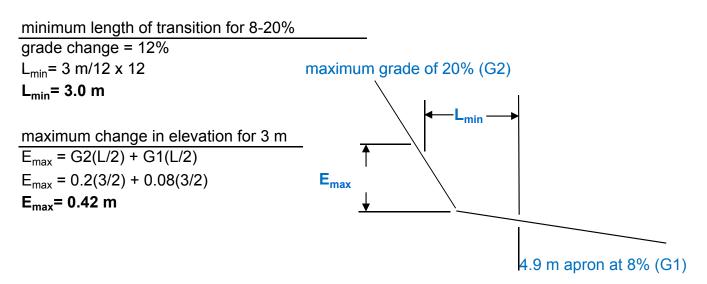


DRIVEWAY GRADES

CALCULATIONS continued



for grade change 8-20% (apron) condition





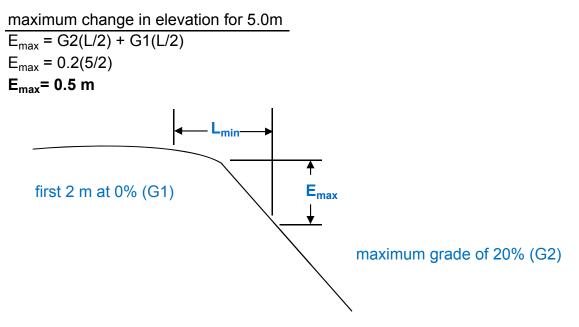


DRIVEWAY GRADES

CALCULATIONS continued

for grade change 0-20% condition

minimum length of transition for 0-20% grade change = 20% L_{min} = 3 m/12 x 20 L_{min} = 5.0 m



The 0% for first 2 m is to create a drainage bump at the road to keep drainage on the road.



DRIVEWAY GRADES

DRIVEWAY CONDITION FOR:

