

Fire Protection Guidelines for Private Road Construction

Private Roadways shall be constructed and maintained in accordance with these guidelines

Full compliance with these guidelines will provide the greatest possibility for the fire department to provide full emergency response within its capabilities to do so. Any deviations from these guidelines could restrict, reduce, and/or delay emergency response.

1.1 Private roadways shall be constructed of a hard, all-weather surface designed to support the weight of an 18 tonne vehicle.

1.2 Every dead-end private roadway more than 91.5m (300ft) in length shall be provided at the closed end with a turnaround having not less than a 15.25m (50ft) (ideally 30.5m/100ft) outside diameter of traveled way. Also acceptable is a hammerhead-T turnaround to provide 3-point turnaround capability. Length of each section of turnaround to be 12m (40ft).

1.3 Private roadways shall have a minimum clear width of 3.7m (12ft). Provisions shall be made for factors that could impinge on the minimum width --for example, drainage, snow removal, parking, etc. In order to facilitate simultaneous emergency vehicle ingress and passenger vehicle egress, suitable areas shall be constructed to allow an automobile to pull completely off the roadway to allow the passage of an emergency vehicle.

1.4 Grades shall not be more than 10 percent except as permitted by 1.4.1.

1.4.1 Grades steeper than 10 percent may be acceptable by the Township where mitigation measures can be agreed upon jointly by the fire department and the public works department.

1.5 Grades shall not be less than 0.5 percent in order to prevent pooling of water in a traveled way.

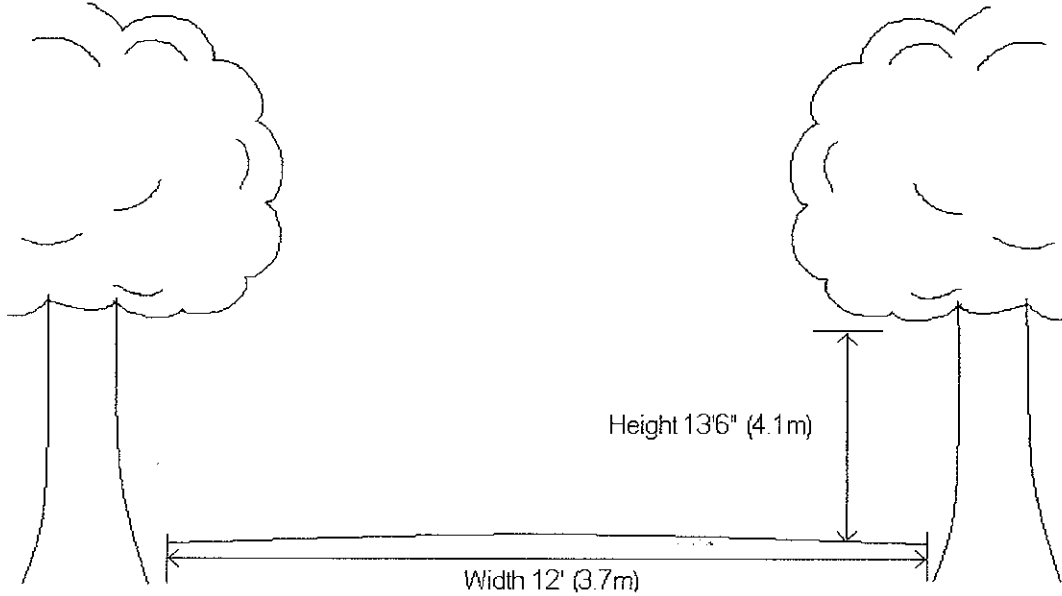
1.6 At least 4.1m (13ft 6in) nominal vertical clearance shall be provided and maintained over the full width of all means of access.

1.7 Turns in private roadways shall maintain the minimum road width.

1.8 Where possible, turns in private roadways shall be constructed with a minimum radius of 30.5m (100ft) to the centreline.

CLEAR WIDTH OF ROAD (EXAMPLE)

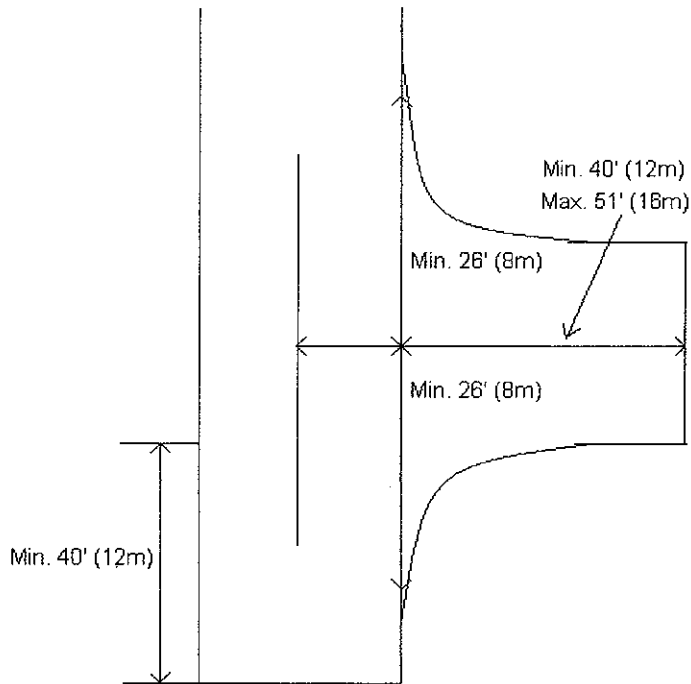
-minimum clearances and width



TURNAROUND DETAIL (EXAMPLE)

A turnaround is required if a dead-end is longer than 91.5 m (300ft).

-minimum distances and road dimensions



**RURAL ROAD STANDARDS
FOR EMERGENCY VEHICLE ACCESS**

Date: AUG 2005

Adapted from NPFA 1141 Section 5.2 and the Great Lakes Forest Fire Compact