

Moderate Volume Commercial Entrance: A commercial entrance along highways with shoulders with certain site and design criteria reduced. Site requirements are:

- Maximum highway vehicles per day: 5,000
- Maximum entrance vehicles per day: 200
- Maximum entrance percent truck trips of vehicles per day: 10%

The reduced design criteria are (i) Minimum entrance throat depth is 25 feet; (ii) Minimum radii is 25 feet with curb/gutter or curbing not required; (iii) Entrance width is 18 feet minimum, 30 feet maximum; and (iv) Minimum angle of entrance is 60 degrees.*

See Figure 4-15 for the moderate volume commercial entrance design illustration.

Private Entrance: An entrance that serves up to two private residences and is used for the exclusive benefit of the occupants or an entrance that allows agricultural operations to obtain access to fields or an entrance to civil and communication infrastructure facilities that generate 10 or fewer trips per day such as cell towers, pump stations, and stormwater management basins.

Private and Low Volume Commercial Entrances

All private and low volume commercial entrances shall be designed in accordance with the entrance design criteria below and Figure 4-1 to promote safe and efficient movement of vehicles in the entrance and on state highways.

Low Volume Commercial Entrance Stopping Sight Distance

Adequate stopping sight distance is required for low volume commercial entrances, as specified in the Stopping Sight Distance Tables 2D-1 and 2D-2.

Private Entrance Sight Distance

The installation of a private entrance cannot be denied on the basis of sight distance. VDOT will review the property owner's highway frontage and determine a useable location for the private entrance with the *best possible sight distance*.

The property owner's preferred location can be denied by the Department if the location does not have the best possible sight distance and therefore is less safe for users of the entrance as well as for motorists on the intersecting highway.

The Department may require the property owner to grade slopes, clear brush, remove trees, and conduct other similar efforts necessary to provide the safest possible means of ingress and egress that can be reasonably achieved.

Private and Low Volume Commercial Entrance Curb and Gutter

Standard entrance gutter (Std. CG-9D; other options are CG-9A or CG-9B) shall be used with Std. CG-6 or CG-7 curb and gutter. A special design entrance gutter shall be submitted for approval when roll top curb is used.

Private and Low Volume Commercial Entrance Design Criteria

All private and low volume commercial entrances shall be designed and constructed as noted below and shown in Figure 4-1. Entrance radius shall be 20' minimum.

* Rev. 1/17