Note: Both SDR and SDL must be met at the entrance or intersection, unless left turns are physically restricted by a median or cha nnelization island; then only SDL is needed. Intersection sight distance determinations apply both horizo ntally and vertically, measured in each direction, and are to be based on a height of driver's eye of 3.5 ' and a height of object $3.5^{\prime}$.

The term "Major Road" refers to the road with the higher functional c lassification, or if both have the same classification, the road with the higher volume.

Intersection sight dis tance does not contro I the access spacing for entrances and intersections shown in Table 2-2.

For major roadways of more than four lanes, large truck volum es on a minor road or median crossover, or median wi dths over 60', see AASHTO's A Policy on Geometric Design of Highways and Streets.

The Engineer must check eac $h$ entrance and intersection to insure that adequate sight distance is provided. On a typical two-la ne road horizontal curve there are numerous objects that restrict sight distanc e such as cut slopes, buildings, vegetation, vehic les, etc.

These obstructions should be considered when reviewing commercial entrances. A divided highway can have similar problems. It is very important to obtain adequate intersection sight distance for all "New" and "Reconstructed" commercial entrances from the entrance as well as the left turn pos ition into the entrance. If the minimum intersection sight distance values in the table mentioned above cannot be met, including applying the adjustment factors for sight distances based on approach grades, a Design Waiver shall be reques ted in accordance with IIM-LD-227, see 2011 AASHTO Green Book, Chapter 9, Section 9.5.3, page 9-32 for further guidanc e. Design Waiver and Design Exception requirements are based on the following;

1) Design Waiver - Meets Stopping Sight Distance but not Intersection Stopping Sight Distance.
2) Design Exception - Does not meet the minimum Stopping Sight Distanc e (See Chapter 2D).

The Intersection Sight Distance values in the table above permit a vehicle stopped on a minor road or median crossover, to cross $t$ he major road safely or merge safely in the case of turns.
The Intersection Sight Distance table above is based on the following criteria:
The AASHTO Green Book shows that it requires 7.5 seconds for a passenger car to turn left onto a two-lane road. For a passenger vehicle to turn right into the first lane, the Green Book shows that only 6.5 seconds is required because drivers making right turns generally accept gaps that slightly shorter than those accepted in making left turns.

The reference to 18 ' median in Table 2-5applie s to medians up to 18 ' in width ( 18 ' or less). For medians up to this width there is not sufficient room to stop so more sight distance is needed. For wider medians, there would be room to stop in the middle of the highway so sight distance can be less.

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[^0]:    *Rev. 1/17

