

2.6 Danger Zone and No-Sight Zones

Based on the above geometric analyses, Figure-I.6 shows the limits of danger zone around this vertical curve. This danger zone can be described as the area in which no lane changes should be taken place, at any time. The total length of this zone is 2100 ft (it is less than 2 x 1150-ft. emergency stopping distance, because of zonal overlaps).

Figure-I.7 describes the two zones in which opposing vehicles will have no sight of each other, at any given time. For 3.5 ft. visibility height, there a small section (500 ft.) around the crest top (between the milepoints 104.5 and 109.5), in which opposing traffic can see each other. However, this clear-sight distance is not long enough for any lane change, therefore should not be excluded from 2100 ft. danger zone.