

# SIGHT DISTANCE AT INTERSECTIONS FOR LEFT, OR RIGHT TURNING & CROSSING VEHICLES WITH STOP CONTROL

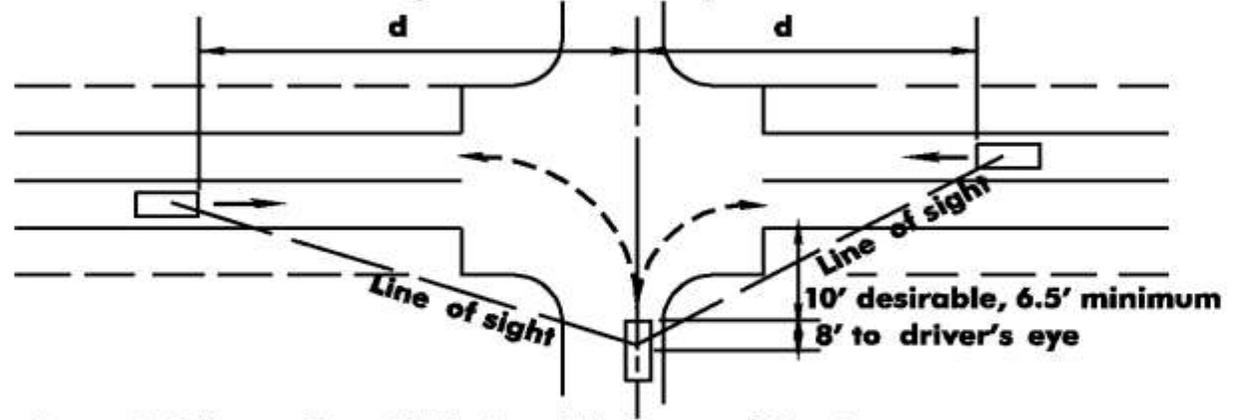
**FIGURE: 6-A**  
**BDC07MR-05**

| Intersection Sight Distance(d) Stop Control on Minor Road<br>Two Lane Highway |           |     |      |                     |     |      |
|---|-----------|-----|------|---------------------|-----|------|
| Design Speed  | Left-Turn |     |      | Right-Turn or Cross |     |      |
|   | P         | SU  | WB   | P                   | SU  | WB   |
| 25  | 280       | 350 | 425  | 240                 | 315 | 385  |
| 30  | 335       | 420 | 510  | 290                 | 375 | 465  |
| 35  | 390       | 490 | 595  | 335                 | 440 | 540  |
| 40  | 445       | 560 | 680  | 385                 | 500 | 620  |
| 45  | 500       | 630 | 760  | 430                 | 565 | 695  |
| 50  | 555       | 700 | 845  | 480                 | 625 | 775  |
| 55  | 610       | 770 | 930  | 530                 | 690 | 850  |
| 60  | 665       | 840 | 1015 | 575                 | 750 | 930  |
| 65  | 720       | 910 | 1100 | 625                 | 815 | 1005 |
| 70  | 775       | 980 | 1185 | 670                 | 875 | 1085 |

For highways with more than 2 lanes or when approach grade on minor road exceeds 3%, the distance (d) must be calculated using the formula:  $d = 1.47Vt_g$

| Design Vehicle | Time Gap, $t_g$<br>Left-Turn | Time Gap, $t_g$<br>Right-Turn & Cross |
|----------------|------------------------------|---------------------------------------|
| P              | 7.5 (See Notes)              | 6.5 (See Notes)                       |
| SU             | 9.5 (See Notes)              | 8.5 (See Notes)                       |
| WB             | 11.5 (See Notes)             | 10.5 (See Notes)                      |

- Notes:**
1. For left turn or crossing add 0.5 sec. for P and 0.7 sec. for SU & WB for each additional lane crossed.
  2. For each percent the upgrade on minor road exceeds 3%, add 0.1 sec for right turn or crossing and 0.2 sec for left turn



Source: A Policy on Geometric Design of Highways and Streets.