The information shown on this index is intended solely for the purpose of clear sight development and maintenance at intersecting highways, roads and streets, and is not interded to be used to
astablish roadway and roadside safety except as related to clear sight corridors. An analysis of sight astablish rooadway and roadside safety except as related to clear sight corridors. An analysis of sight
distance shallbe documented for all intersections.
2. Details are based on the AASHTO 'A Policy On Geometric Design Of Highways And Streets, 2001', median openings (left turns from major roadways).
3. The minimum driver eye setback of $14.5^{\prime}$ from the edge of the traveled way may be adjusted on any intersection leg only when justified by a documented, site specific field study of vehicle stopping position and driver eye position
4. For SIGNALIZED INTERSECTIONS sight distances should be developed based on AASHTO 'Case D Intersections With Traffic Signal Control'. 'At signalized intersections, the first vehicle stopped on one approach should be visible to the driver of the first vehicle stopped on each of the other approaches.
Left- turning vehicles should have sufficient sight distance to select gaps in oncoming traffic and Left- turning vehicles should have sufficient sight distance to select gaps in oncoming traffic and
complete left turns. Apart from these sight conditions, there are generally no other approach or departure sight triangles needed for signalized intersections.
However, if the traffic signal is to be placed on two -way flashing operation (i.e. flashing yellow on the
major -road approaches and flashing red on the minor -road approaches) under off- peak or nighttim major -road approaches and flashing red on the minor -road approaches) under off- peak or nighttime
conditions, then the appropriate departure sight triangles for Case B, both to the left and to the right, should be provided for the minor-road approaches. In addition, if right turns on a red signal are to be permitted from any approach, then the appropriate departure sight triangle to the left for Case B2 should be provided to accommodate right turns from that approach
5. Where curvature, superelevation, adverse split profiles or other conditions preclude the use of standard tree sizes and spacing, proof of view and shadowing restraints must be documented and the size and
location of trees in medians detailed in the plans.
6. Intersection sight distance values are provided for Passenger Vehicles, SU Vehicles and Combination Vhicles. Intersection sight distance based on the Passenger Vehicle is suitable for most intersections stop control or roadways serving truck terminals, the use of tabulated values for SU Vehicles or Combination Vehicles should be considered.

Details apply to both ruraland urban intersections under stop sign control or flashing beacon control. For full signal controlled Details apply to both rural and urban intersections under stop sign control or flashing beacon control. For full signal controlled
intersections see Design Note No 4. At intersections listed in the Department's High Crash Intersection Report, designers shall give attention to keeping to a minimum, objects that distract or affect sight distance.
2. Sight distance 'd' applies to normal and skewed intersections (intersecting angles between $60^{\circ}$ and $120^{\circ}$ ), and where vertical and/or horizontal curves are not present. Sight distance 'd' is measured along the major roadway from the center of the entrance lane measured from the centerline of the entrance lane of the minor roadway to a point on the edge of the near side outer traffic lane on the major roadway. Distance 'dm' is measured from the centerline of the entrance lane of the minor roadway to a point on
3. A. The limits of clear sight define a corridor throughout which a clear sight window must be preserved. See WINDOW DETAIL, Sheet 2 . B. Clear sight must be provided between vehicles at intersection stop locations, and vehicles on the major roadway within dimension respective pavements. made in both directions abo the line of sight,
4. Barrier systems within intersection sight corridors, where penetration into the sight window might occur, shall be located to provide the least adverse affect practical.
5. The corridor defined by the limits of clear sight is a restricted planting area. Drivers of vehicles on the intersecting roadway and vehicles on the major roadway must be able to see each other clearly throughout the limits of ' $d$ ' and ' ' $d$ ' '. If in the Engineers judgement, landscaping interferes with the line of sight corridor prescribed by these standards the Engineer may rearrange, relocate or

Ground Cover \& Trunked Plants (Separate or Combined):
Ground Covers -
Ground Covers - Plant selection of low growing vegetation which at maturity does not attain a height greater than 18" below the sight line datum. For ground cover in combination with trees and palms; the following heights below the sight line datum will apply

Trunked Plants - Plant selection of a mature trunk diameter 4" or less measured at $6^{\prime \prime}$ above the ground. Canopy or high borne foliage shall never be lower than 5' above the sight line datum. These selections shall be spaced no closer than 20'
Trees - Trees can be installed with sod; pavers; gravel, mulch; ground covers or other Department approved material. The clear sight window must be in conformance with the 'WINDOW DETALL ma
A. Size and spacing shall conform to the Tree Spacing Table.
A. Size and spacing shall conform to the Iree Spacing Table.
B. Reauirements for placement within medians at median openings and at unsignalized and signalized intersections
(a) Horizontal clearance for the mature specimen shallbe maintained as specified in Index 700 . Specimens whose mature trunk
diameter is greater than 18 inches shall not be permitted,
(b) Where left turns from the major road are permitted, no trees shall be located within the distance ' $d_{b}$ ', Sheet 2 of 6; and
not less than the distances called for in (c) or (d), as applicable,
(c) Where no left turn lane is present, size and spacing shall conform to the Tree Spacing Table. No trees shall be permitted
(d) Where left turn lane(s) are present, the following requirements apply

- For low speed facilities (design speed less than 50 mph), size and spacing shall conform to the Tree Spacing
Table. No trees shall be permitted within 100 'of the median nose (measured from the edge of pavement).
- For high speed facilities (design speed 50 mph or greater), no trees shallbe permitted within 200' of the median - For high speed facilities (design speed 50 mph or greater), no trees shall be perm
nose. Beyond this limit, size and spacing shall conform to the Tree Spacing Table.

$\Rightarrow$ Lane Identification and
明和 $\hat{\imath}$
7 Pavement Markings
PLAN
Special Areas Limited to Ground Cover
2010 Interim Design Standard


CHANNELIZED DIRECTIONAL MEDIAN DPENINGS

| REVISIONS |  |  |  |  |  |  | 2010 Interim Design Standard | $\begin{array}{\|c\|} \hline \text { Interim } \\ \text { D Date } \\ 0701 / 10 \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Sheet No. } \\ 2 \text { of } 6 \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\frac{8 Y}{\text { J }}$ | Removed "Area limited to ospripriound cover" from sheet. | date | Br | OESCRIPTION |  | SIGHT DISTANCE AT INTERSECTIONS |  |  |
|  |  |  |  |  |  |  |  |  | 46 |



Where The Median Is Sufficiently Wide For The Design Vehicle To Pause In The Median
(Vehicle Length Plus 6'Min.) The Clear Line Df Sight To The Right (dv) Is Measured From
The Vehicle Pause Location, i.e., Not From The Cross Road Stop Position; Distances $d_{r}$ \& $d_{m}$ Do Not Apply.

INSET A

| Vehicle Type | Vehicle Length (Ft.) |
| :---: | :---: |
| Passenger (P) | 19 |
| Single Unit (SU) | 30 |
| Large SchoolBus | 40 |
| WB-40 | 45.5 |
| WB-50 | 55 |

NOTES FOR 4-LANE DIVIDED ROADWAY

1. See Sheet 2 for origin of clear sight line on the minor road
2. Values shown in the tables are the governing (controlling) Case B-Intersection with Stop Control on the Minor Road.
INTERMEDIATE SEMI-TRAILERS (WB-40 \& WB-50)

SIGHT DISTANCES $(d) \&\left(d_{v}\right)$ AND RELATED DISTANCES $\left(d_{L}, d_{r}, d_{m} \& d_{v L}\right)$ (FEET)
4 LANE DIVIDED ROADWAY

| REVISIONS |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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INTERMEDIATE SEMI-TRAILERS (WB-40 \& WB-50)

# SIGHT DISTANCES $(d),\left(d_{V}\right) \&\left(d_{x}\right)$ AND RELATED DISTANCES $\left(d_{L}, d_{r}, d_{m} \& d_{V L}\right)$ (FEET) 

6 LANE DIVIDED

| REVISIONS |  |  |  |  |  |  | 2010 Interim Design Standard | $\begin{gathered} \begin{array}{c} \text { Interim } \\ \text { Date } \\ 07 / 01 / 10 \end{array} \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Sheet No. } \\ 6 \text { of } 6 \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\frac{\text { OAIE }}{07 / 1 / 10}$ | ${ }_{\text {JM }}$ | Removed "Area linited to ospripriound cover" from sheet. | DAAE | ${ }^{81}$ | OESCRPIPriov |  | SIGHT DISTANCE AT INTERSECTIONS |  |  |
|  |  |  |  |  |  |  |  |  | ${ }^{\text {dex }}$ No. |

