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Washington, District of Columbia, USA 2011
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I. Variables mentioned in intersection sight triangles methodologi
  al is the longitudinal distance between the decision point on
    the subject minor approach and major approach vehicle left
    of the subject minor approach in feet.
  a2 is the longitudinal distance between the decision point on
    the subject minor approach and major approach vehicle right
    of the subject minor approach in feet. This distance
    includes major road median width, if any, and lane widths
    of the major egress right of the subject minor approach.
 b left is the lateral distance between the decision point on
    the subject minor approach and left major approach vehicle.
  b right is the lateral distance between the decision point on
    the subject minor approach and right major approach
    vehicle.
  Do_major_left is the lateral obstruction distance between
    decision point and obstacle edge right of the major
    approach that is left of the subject minor approach in
  Do major right is the lateral obstruction distance between
    decision point and obstacle edge left of the major
    approach that is right of the subject minor approach in
    feet.
  Do minor left is the lateral obstruction distance between
    decision point and obstacle edge left of the subject minor
    approach in feet.
  Do minor right is the lateral obstruction distance between
    decision point and obstacle edge right of the subject minor
    approach in feet.
  fG left is grade adjustment factor for major approach left
    of decision point.
  fG minor is grade adjustment factor for subject minor
    approach.
  fG_right is grade adjustment factor for major approach right
    of decision point.
  G left is the major approach grade left of the subject minor
    approach in percent.
  G minor is the subject minor approach grade in percent.
  G right is the major approach grade right of the subject
   minor approach in percent.
  Nl is number of major road approach lanes left of decision
    point on subject minor road approach in ln.
  SD major is unadjusted sight distance for major approaches
    in feet.
  SD minor is unadjusted sight distance for subject minor
    approach in feet.
  Vmajor is the major road design speed in mi/h.
  Vminor is the minor road design speed in mi/h.
  Wl is average major road lane width in feet.
  Wm is median width on major road, if any, in feet.
II. Worksheet information
II.1 General Information
  Analyst: Any Name
  Agency or Company: Fazio Engineerware
  Analysis Date: 30February2018
II.2 Intersection Information
 Major Road Name: North Ave.
 Minor Road Name: York Road
  Jurisdiction: Any_jurisdiction
  Forecast Year: 2018
III. Intersection Sight Triangle Methodology
  Step 1 - Input Data
            Case: A
   MAJOR ROAD:
         Vmajor =
                    50 mi/h
         G left =
                    4 percent
        G right =
                    -4 percent
             Wm =
                     0.0 ft
             N1 =
                     2 ln
             Wl =
                    12.0 ft
   MINOR ROAD:
                   45 mi/h
        Vminor =
                    0 percent
        G minor =
   OBSTACLE left of decision point, if any:
       Do minor left = 80.0 ft
    OBSTACLE right of decision point, if any:
      Do major right = 80.0 ft
   Step 2 - Output
IV.1 Approach Sight Triangle left of decision point on
     subject minor approach
    SDbase minor = 220 ft
        fG minor =
                       1.0
              a1 =
                    220 ft
    SDbase major =
                    245 ft
         fG left =
                     0.9
          b left = 220 ft
   Do major left = 140 ft
IV.2 Approach Sight Triangle right of decision point on
     subject minor approach
    SDbase minor = 220 ft
        \begin{array}{ccc} \text{fG\_minor} &= & 1.0 \\ & \text{a2} &= & 244 \text{ ft} \end{array}
                    245 ft
    SDbase major =
        fG right =
         b right =
                     270 ft
  Do minor right =
                    181 ft
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This concludes FAZSIGHT V.1.00
Intersection Sight Triangle Application, U.S. customary units
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FAZSIGHT Version 1.0

TRANSPORTATION OFFICIALS

A faithful computer program representation

AMERICAN ASSOCIATION OF STATE HIGHWAY AND

of intersection sight distance determination methods in A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS 2011