TYPICAL FOR ALL 2-LANE MERGES EXCEPT WHERE THERE IS A MERGE FROM THE RIGHT AND NO OFFSET IN THE THROUGH LANES

TYPICAL FOR ALL 2-LANE MERGES WITH NO OFFSET IN THE THROUGH LANES

TYPICAL FOR DIVERGING ROADWAYS WHEN WIDENING IS ON BOTH SIDES

TYPICAL FOR DIVERGING ROADWAYS WHEN WIDENING IS ON RIGHT SIDE

TYPICAL FOR DIVERGING ROADWAYS WHEN WIDENING IS ON LEFT SIDE

DELINEATION OF FREEWAY TO FREEWAY CONNECTIONS

* WHEN THE PAVED SHOULDER WIDTH IS 12', PLACE DELINEATOR 14' FROM THE EDGE OF TRAVELED WAY. THE WIDTH OF THE PAVED GORE WILL BE INCREASED TO 24'.

DELINEATOR REFERENCE POINTS FOR NORMAL 10' SHOULDERS (9' OR 10' PAVED)
INTERCHANGE DELINEATION

5 DELINEATORS WITH RED ON BACK (BOTH SIDES OF ROADWAY)

BEGINNING OF DECELERATION LANE TAPER

DELINEATOR REFERENCE POINT

END OF ACCELERATION LANE TAPER

DELINEATOR REFERENCE POINT

DELINEATORS ALSO ON THE LEFT OF RIGHT-CURVING RAMP WHEN RADIUS IS LESS THAN 1000' (TYPICAL)

WHEN THE RAMP RADIUS IS LESS THAN OR EQUAL TO 480', USE 3" x 12" YELLOW SHEETING DELINEATORS AT ALL LOCATIONS

SEE NOTES FOR DELINEATOR OVERLAP (TYPICAL)

BEGINNING OF DECELERATION LANE TAPER

5 DELINEATORS WITH RED ON BACK (BOTH SIDES OF ROADWAY)

DELINEATOR INSTALLATIONS
DIVIDED HIGHWAY & MEDIAN CROSSOVER

RURAL TWO-LANE TWO-WAY ROADWAYS (OPTIONAL)

REST AREA & WEIGH STATION

DELINEATOR ORIENTATION
ON HORIZONTAL CURVES
FOR ONE WAY TRAFFIC

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DELINEATOR INSTALLATIONS

DELINEATORS INSTALLED ON RIGID STEEL POSTS

- WHITE DELINEATORS:
  - 400' maximum spacing on tangent and curves with a radius greater than 3500'
  - 200' maximum spacing in interchange areas
  - 100' maximum spacing on interchange ramps

- YELLOW DELINEATORS:
  - 200' maximum spacing in merge or diverge areas of major roadways
  - 100' maximum spacing along right turn lanes

- BACK TO BACK WHITE DELINEATORS:
  - 400' maximum spacing on tangent and curves with a radius greater than 3500'
  - 100' maximum spacing along right turn lanes

- RED DELINEATORS ON BACK OF WHITE DELINEATORS

- RED DELINEATORS ON BACK OF YELLOW DELINEATORS

- GREEN DELINEATORS

DELINEATORS INSTALLED ON FLEXIBLE POSTS

- 3" x 12" WHITE SHEETING DELINEATORS:
  - 200' maximum spacing in interchange areas
  - 100' maximum spacing on interchange ramps

- 3" x 12" YELLOW SHEETING DELINEATORS:
  - 200' maximum spacing in merge or diverge areas of major roadways
  - 100' maximum spacing on interchange ramps

- BACK TO BACK 3" x 12" WHITE SHEETING DELINEATORS

- 3" x 12" RED SHEETING ON BACK OF 3" x 12" WHITE SHEETING DELINEATORS

- 3" x 12" RED SHEETING ON BACK OF 3" x 12" YELLOW SHEETING DELINEATORS

- BACK TO BACK 3" x 12" WHITE SHEETING DELINEATORS

THE SPACING "S" IS FOUND USING THE FORMULA

\[ S = 3 \sqrt{R - 50} \]

WHERE "R" IS THE RADIUS OF THE CURVE IN FEET.

NOTE:
DELINEATORS SHALL BE PLACED ON TWO LANE TWO WAY ROADWAY HORIZONTAL CURVES WITH A RADIUS OF 1910' OR LESS, OR AS DIRECTED BY THE REGION/TSC TRAFFIC AND SAFETY ENGINEER.

DELINEATOR FACE SHALL BE INSTALLED PERPENDICULAR (OR RADIAL) TO ROADWAY.

DELINEATOR LOCATION ON THROUGH ROADWAY CURVES

DELINEATOR LOCATION ON TWO LANE TWO WAY ROADWAY CURVES

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GREEN DELINEATORS AT GUARDRAIL INSTALLATIONS

GUARDRAIL APPROACH TERMINAL TYPES 1B & 1T (SRT)

GUARDRAIL APPROACH TERMINAL TYPES 1B & 1T (FLEAT)

GUARDRAIL APPROACH TERMINAL TYPES 2B & 2T (ET OR SKT)

GUARDRAIL DEPARTING TERMINAL TYPES B & T
MAINTENANCE CROSSES

INTERSECTION

GREEN DELINEATOR LOCATIONS

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INSTALLATION OF DELINEATORS ON RIGID STEEL POST

INSTALLATION OF REFLECTIVE SHEETING ON FLEXIBLE POST

DELINEATOR REFLECTOR DETAIL

RIGID STEEL POST DETAIL

NOMINAL WEIGHT = 1.12 LBS/FT
MINIMUM MOMENT OF INERTIA ABOUT X-X AXIS = 0.031 in.\textsuperscript{4}

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DELINEATOR INSTALLATIONS

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DELINEATOR INSTALLATIONS

DELINEATORS SHOULD BE PLACED 2'-0" BEYOND THE NORMAL SHOULDER, 2'-0" BEYOND THE FACE OF A BARRIER CURB, OR IMMEDIATELY BEHIND THE GUARDRAIL POST. DELINEATORS INSTALLED ON FLEXIBLE POSTS SHALL NOT BE PLACED BEHIND GUARDRAIL.

FLEXIBLE POST DELINEATORS SHALL BE INSTALLED ACCORDING TO THE CURRENT SPECIFICATIONS AND INSTALLED AT ALL LOCATIONS SPECIFIED ON THIS STANDARD PLAN, OR WHERE DIRECTED BY THE ENGINEER.

ON RAMPS, WHITE DELINEATORS SHALL BE PLACED ON THE RIGHT AND YELLOW DELINEATORS SHALL ALSO BE PLACED ON THE LEFT FOR A RIGHT-CURVING RAMP WITH A RADIUS OF 1000' OR LESS.

WHERE DELINEATION ON ONE SIDE OF THE ROADWAY OR RAMP ENDS AND DELINEATION ON THE OTHER SIDE APPEARS, THE DELINEATORS SHOULD BE OVERLAPPED A MINIMUM OF TWO UNITS.

DELINEATORS SHALL BE OMITTED ALONG THE THROUGH ROADWAY BETWEEN INTERCHANGES WHERE FIXED SOURCE LIGHTING EXISTS, BUT SHALL BE PLACED ON ALL RAMPS AT RURAL INTERCHANGES, WHETHER OR NOT THE INTERCHANGES ARE LIGHTED.

RED DELINEATORS SHALL BE LOCATED ON THE BACK OF RAMP DELINEATORS TO FACE WRONG-WAY TRAFFIC MOVEMENTS. PLACEMENT SHALL START AT RAMP TERMINAL AND END 1/4 MILE IN ADVANCE OF THE DECELERATION LANE.

DELINEATOR TO POST ATTACHMENT SHALL BE AS SPECIFIED ON THIS STANDARD PLAN. CRIMP TYPE COLLAR MAY BE SWAGED ON EITHER THE DELINEATOR FACE SIDE OR THE POST SIDE.

ON LEFT DECELERATION AND ACCELERATION LANES, USE YELLOW DELINEATORS ON THE LEFT.

DELINEATOR PLACEMENT SHOULD CONTINUE WHERE GUARDRAIL OR CONCRETE BARRIER IS PRESENT. DO NOT PLACE DELINEATORS BEHIND GUARDRAIL APPROACH TERMINALS. IF TERRAIN OR OTHER FACTORS PROHIBIT POST MOUNTED DELINEATOR PLACEMENT, INSTALLATION OF GUARDRAIL OR BARRIER MOUNTED ENHANCED DELINEATORS IS RECOMMENDED.

CONSIDER PLACING YELLOW DELINEATORS ON THE LEFT SIDE OF FREEWAYS AND DIVIDED HIGHWAYS WHERE NO CABLE BARRIER OR OTHER DELINEATION IS PRESENT.

SPACING MAY BE ADJUSTED IN THE FIELD WHERE DRIVEWAYS OR OTHER OBSTACLES PREVENT DELINEATOR PLACEMENT. FINAL SPACING SHALL NOT EXCEED 528'.

NOTES:

DELINEATOR INSTALLATIONS

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