



$$X_2 = L \left[\frac{12(NC \text{ SLOPE})}{24(e) - 12(NC)} \right]$$

$$X_3 = L \left[\frac{12(NC \text{ SLOPE})}{12(e)} \right]$$

V = 50 mph			
*D	e	L(ft)	
		A	B
0° 30'	NC	0	0
0° 45'	RC	150	150
1° 00'	.020	150	150
1° 30'	.028	150	150
2° 00'	.035	150	150
2° 30'	.040	150	150
3° 00'	.045	150	160
3° 30'	.048	150	170
4° 00'	.052	150	180
5° 00'	.056	150	200
6° 00'	.059	150	210

D_{max} = 6° 45'

* NOTE: FOR DEGREES OF CURVE INTERMEDIATE BETWEEN TABLE VALUES, USE A STRAIGHT-LINE INTERPOLATION TO DETERMINE THE SUPERELEVATION RATE.

- KEY:
- D = DEGREE OF CURVE
 - V = DESIGN SPEED (mph)
 - e = FULL SUPERELEVATION RATE (%)
 - L = MINIMUM LENGTH OF SUPERELEVATION RUNOFF (FROM ADVERSE CROWN REMOVED TO FULL SUPER) (ft)
 - A = "L" FOR 1-LANE WIDTH OF ROTATION
 - B = "L" FOR 2-LANE WIDTH OF ROTATION
 - NC = NORMAL CROWN (2% CROSS SLOPE)
 - RC = REVERSE CROWN; SUPERELEVATE AT NORMAL CROWN SLOPE (2%)

- GENERAL NOTES:
- "L" IN THE TABLE IS FOR ROTATION ABOUT THE CENTERLINE OF 2 LANES ("A") AND 4 LANES ("B") OF TRAVELED WAYS (1 LANE AND 2 LANES EACH SIDE OF THE ROTATION POINT RESPECTIVELY). MINIMUM LENGTH OF RUNOFF FOR VARIOUS WIDTHS OF ROTATION ARE AS FOLLOWS:
 FOR ROTATING A WIDTH OF 3 TRAVEL LANES: L = (1.33)L IN COLUMN B)
 FOR ROTATING A WIDTH OF 4 TRAVEL LANES: L = (1.67)L IN COLUMN B)
 - A VERTICAL CURVE WITH A LENGTH (IN FEET) EQUAL TO THE DESIGN SPEED (IN MPH) SHOULD BE PLACED AT EXCESSIVE ANGULAR BREAKS.

Δ** 3. THE 0.24 DIFFERENCE IN ELEVATION FROM PLAN GRADE LINE TO EDGE OF TRAVELED WAY IS BASED ON 12' TRAVEL LANES, 2% NORMAL CROWN SLOPE, AND THE LOCATION OF PLAN GRADE AT THE CENTERLINE OF ROADWAY. ALTHOUGH THE HORIZONTAL LOCATION OF PLAN GRADE AT THE CENTERLINE IS PREFERRED AND ILLUSTRATED ON THIS STANDARD DRAWING, PLAN GRADE LOCATION IS VARIABLE (I.E. PLAN GRADE AT THE MEDIAN EDGE OF TRAVEL LANE) AND SHOULD BE VERIFIED ON THE TYPICAL SECTION(S).

REVISION		BY		DATE	
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN					
SUPERELEVATION TRANSITION CASE II ROTATION ABOUT EDGE OF TRAVELED WAY (URBAN FACILITY, V=50 mph)					
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