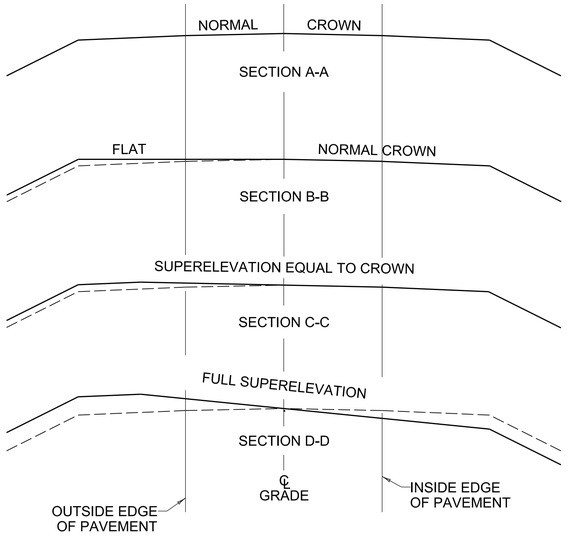
~ SECTIONS ~

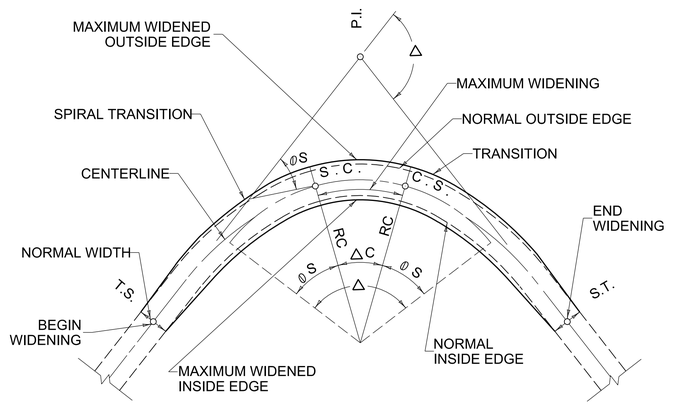


SUPERELEVATION TRANSITION FOR CURVES
SINGLE LANE PAVEMENT

CURVE WIDENING FOR SPIRAL TRANSITION CURVES

(WIDENING DIVIDED EQUALLY ON EACH SIDE)

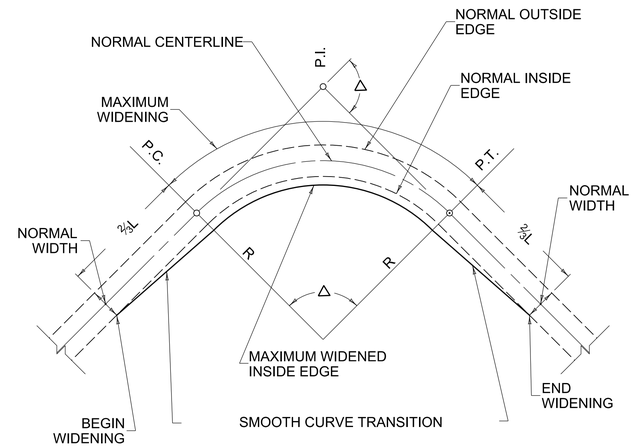
NOTE: IF DIRECTED, SPIRAL TRANSITION CURVES SHALL BE WIDENED ON INSIDE ONLY.



NOTE: MINIMUM WIDENING = 2'-0" (6)

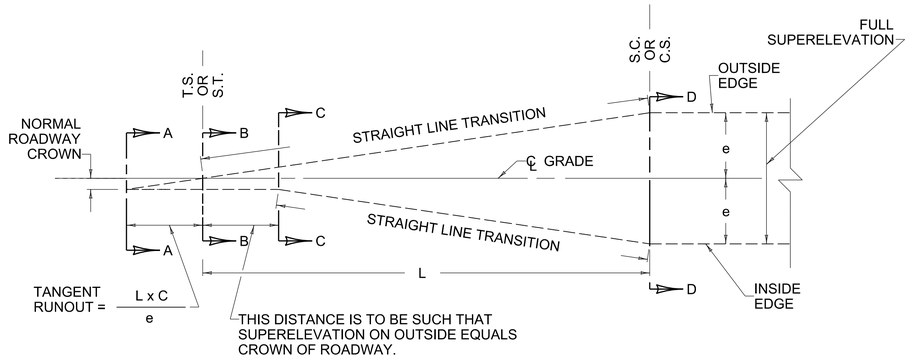
CURVE WIDENING FOR SIMPLE CURVES

(WIDENED ON INSIDE ONLY)



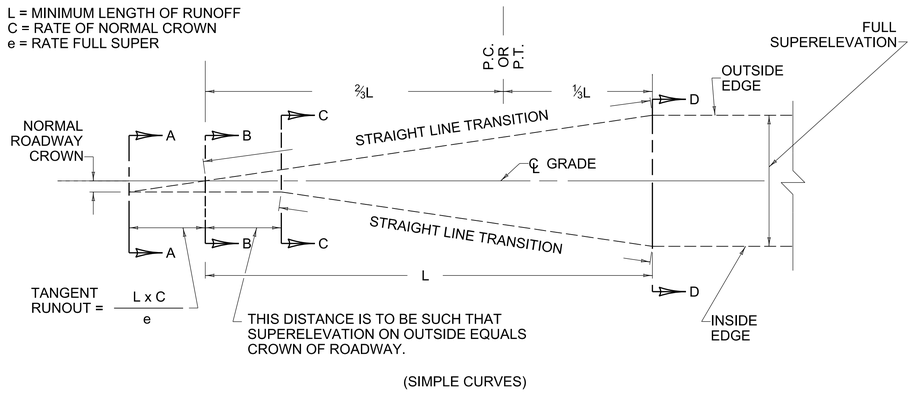
SMOOTH CURVE TRANSITION

NOTE: MINIMUM WIDENING = 2'-0"
L = MINIMUM LENGTH OF RUNOFF.



(SPIRAL CURVES)

L = MINIMUM LENGTH OF RUNOFF
C = RATE OF NORMAL CROWN
e = RATE FULL SUPER



(SIMPLE CURVES)

~ NOTES ~

(1) *WIDTH OF PAVEMENT ON TANGENT.*
2. *3-LANE PAVEMENTS: MULTIPLY ABOVE VALUES BY 1.5.*
3. *4-LANE PAVEMENTS: MULTIPLY ABOVE VALUES BY 2.*
4. *FOR INTERMEDIATE DESIGN SPEEDS, USE THE NEXT HIGHER DESIGN SPEED VALUE.*
5. *WHEN REQUIRED ON CONSTRUCTION, CURVES SHALL BE SUPER-ELEVATED BY REVOLVING SECTION AROUND INSIDE OR OUTSIDE EDGE AS DIRECTED. SHORT VERTICAL CURVES TO BE INSERTED AT "D" AND "A" WHERE DIRECTED ON CONSTRUCTION.*
(6) *WHEN SEMI-TRAILER VOLUMES ARE SIGNIFICANT, REFER TO THE AASHTO "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS" MANUAL.*

CURVE WIDENING IN FEET FOR TWO-LANE PAVEMENTS (6)

(1) PVMT. WIDTH	24 FEET			22 FEET					20 FEET			
RADIUS OF CURVE	DESIGN SPEED (MPH)											
	30	40	50	30	40	50	60	70	30	40	50	60
5000'												2.0
2500'									2.0	2.0	2.0	2.5
2000'								2.0	2.0	2.0	2.5	2.5
1500'							2.0	2.0	2.0	2.5	2.5	3.0
1200'						2.0	2.0		2.5	2.5	2.5	3.0
1000'					2.0	2.0	2.5		2.5	3.0	3.0	3.5
825'					2.0	2.5			2.5	3.0	3.5	
700'				2.0	2.0	2.5			3.0	3.0	3.5	
600'			2.0	2.0	2.5	3.0			3.0	3.5	4.0	
550'				2.0	2.5				3.0	3.5		
425'		2.0		2.5	3.0				3.5	4.0		
350'	2.0			3.0					4.0			
300'	2.5			3.5					4.5			
250'	3.0			4.0					5.0			
225'	3.5			4.5					5.5			

REVISION DATE: 12/01/2015
REVISION NUMBER: 0

SUBMITTED — DIVISION DIRECTOR — 12-01-2015 DATE

APPROVED — STATE HIGHWAY ENGINEER — 12-01-2015 DATE

GENERAL

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
TEAM KENTUCKY TRANSPORTATION CABINET

SUPERELEVATION

CURVE WIDENING AND SUPERELEVATION TRANSITIONS

STANDARD DRAWING NUMBER
RGS-001-07