

**DESIGN FACTORS FOR A DESIGN SPEED OF 30 km/h
(URBAN) USING E= 4% MAX.**

RADIUS (METERS)	E (%)	PAVEMENT WIDTH											
		7.2 m		10.8 m		14.4 m		18 m		19.8 m		21.6 m	
		DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)											
		1 @ 3.6 m		1.5 @ 3.6 m		2 @ 3.6 m		3 @ 3.0 m		3 @ 3.3 m		3 @ 3.6 m	
		Lt	Lr	Lt	Lr	Lt	Lr	Lt	Lr	Lt	Lr	Lt	Lr
400	NC	0	0	0	0	0	0	0	0	0	0	0	0
255	2.0	10	10	12	12	15	15	16	16	18	18	20	20
235	2.1	10	11	12	13	15	16	16	17	18	19	20	21
215	2.2	10	11	12	14	15	16	16	18	18	20	20	22
195	2.3	10	12	12	14	15	17	16	19	18	21	20	23
174	2.4	10	12	12	15	15	18	16	20	18	22	20	24
153	2.5	10	12	12	15	15	18	16	20	18	22	20	24
137	2.6	10	13	12	16	15	19	16	21	18	23	20	25
123	2.7	10	13	12	17	15	20	16	22	18	24	20	26
112	2.8	10	14	12	17	15	21	16	23	18	25	20	27
102	2.9	10	14	12	18	15	21	16	24	18	26	20	28
93	3.0	10	15	12	18	15	22	16	24	18	27	20	29
86	3.1	10	15	12	19	15	23	16	25	18	28	20	30
79	3.2	10	16	12	20	15	24	16	26	18	29	20	31
73	3.3	10	16	12	20	15	24	16	27	18	30	20	32
67	3.4	10	17	12	21	15	25	16	28	18	30	20	33
62	3.5	10	17	12	21	15	26	16	28	18	31	20	34
57	3.6	10	18	12	22	15	26	16	29	18	32	20	35
52	3.7	10	18	12	23	15	27	16	30	18	33	20	36
48	3.8	10	19	12	23	15	28	16	31	18	34	20	37
43	3.9	10	19	12	24	15	29	16	32	18	35	20	38
34	4.0	10	20	12	24	15	30	16	32	18	36	20	40

NOTE:

Lt AND Lr VALUES IN METERS.

FOR PAVEMENT WIDTHS GREATER THAN 21.6 METERS USE Lr VALUES DEVELOPED BY DESIGN SOFTWARE.

LISTED RADIUS IS THE MINIMUM ALLOWABLE RADIUS FOR THE CORRESPONDING E, Lt, AND Lr VALUES.

SPECIFICATION REFERENCE

TRANSITION CURVES - URBAN
30 km/h DESIGN SPEED
 VIRGINIA DEPARTMENT OF TRANSPORTATION