

**DESIGN FACTORS FOR A DESIGN SPEED OF 35 MPH
(URBAN) USING E= 4% MAX.**

RADIUS (FEET)	E (%)	PAVEMENT WIDTH												
		24 FT		36 FT		48 FT		60 FT		66 FT		72 FT		
		DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)												
		1 @ 12'		1.5 @ 12'		2 @ 12'		3 @ 10'		3 @ 11'		3 @ 12'		
Lt	Lr	Lt	Lr	Lt	Lr	Lt	Lr	Lt	Lr	Lt	Lr	CR	Lr	
3730	NC	0	0	0	0	0	0	0	0	0	0	0	0	0
2511	2.0	39	39	49	49	59	59	65	65	71	71	78	78	
2320	2.1	39	41	49	51	59	61	65	68	71	75	78	82	
2138	2.2	39	43	49	54	59	64	65	71	71	79	78	86	
1961	2.3	39	45	49	56	59	67	65	75	71	82	78	90	
1781	2.4	39	47	49	59	59	70	65	78	71	86	78	93	
1593	2.5	39	49	49	61	59	73	65	81	71	89	78	97	
1434	2.6	39	51	49	63	59	76	65	84	71	93	78	101	
1299	2.7	39	53	49	66	59	79	65	88	71	96	78	105	
1184	2.8	39	55	49	68	59	82	65	91	71	100	78	109	
1084	2.9	39	57	49	71	59	85	65	94	71	103	78	113	
995	3.0	39	59	49	73	59	88	65	97	71	107	78	117	
916	3.1	39	60	49	75	59	90	65	100	71	110	78	120	
846	3.2	39	62	49	78	59	93	65	104	71	114	78	124	
782	3.3	39	64	49	80	59	96	65	107	71	118	78	128	
723	3.4	39	66	49	83	59	99	65	110	71	121	78	132	
668	3.5	39	68	49	85	59	102	65	113	71	125	78	136	
617	3.6	39	70	49	88	59	105	65	117	71	128	78	140	
567	3.7	39	72	49	90	59	108	65	120	71	132	78	144	
518	3.8	39	74	49	92	59	111	65	123	71	135	78	148	
465	3.9	39	76	49	95	59	114	65	126	71	139	78	151	
373	4.0	39	78	49	97	59	117	65	130	71	142	78	155	

NOTE:

Lt AND Lr VALUES IN FEET.

FOR PAVEMENT WIDTHS GREATER THAN 72 FEET USE Lr VALUES DEVELOPED BY THE DESIGN SOFTWARE.

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

SPECIFICATION REFERENCE

**TRANSITION CURVES - URBAN
35 MPH DESIGN SPEED**

VIRGINIA DEPARTMENT OF TRANSPORTATION



ROAD AND BRIDGE STANDARDS

REVISION DATE

SHEET 1 OF 1

803.27