

DESIGN FACTORS FOR A DESIGN SPEED OF 25 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
2050	NC	0	0	0	0	0	0	0	0	0	0	0	0
1350	2	35	35	43	43	52	52	58	58	63	63	69	69
1234	2.1	35	36	43	45	52	54	58	60	63	66	69	72
1119	2.2	35	38	43	48	52	57	58	63	63	70	69	76
994	2.3	35	40	43	50	52	60	58	66	63	73	69	79
858	2.4	35	42	43	52	52	62	58	69	63	76	69	83
750	2.5	35	43	43	54	52	65	58	72	63	79	69	86
664	2.6	35	45	43	56	52	67	58	75	63	82	69	90
593	2.7	35	47	43	58	52	70	58	78	63	85	69	93
534	2.8	35	48	43	60	52	72	58	80	63	88	69	96
483	2.9	35	50	43	63	52	75	58	83	63	92	69	100
440	3	35	52	43	65	52	78	58	86	63	95	69	103
402	3.1	35	54	43	67	52	80	58	89	63	98	69	107
369	3.2	35	55	43	69	52	83	58	92	63	101	69	110
339	3.3	35	57	43	71	52	85	58	95	63	104	69	114
311	3.4	35	59	43	73	52	88	58	98	63	107	69	117
286	3.5	35	60	43	75	52	90	58	100	63	110	69	120
263	3.6	35	62	43	78	52	93	58	103	63	114	69	124
241	3.7	35	64	43	80	52	96	58	106	63	117	69	127
218	3.8	35	66	43	82	52	98	58	109	63	120	69	131
195	3.9	35	67	43	84	52	101	58	112	63	123	69	134
155	4	35	69	43	86	52	103	58	115	63	126	69	138

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 25 MPH DESIGN SPEED

VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT	
ROAD AND BRIDGE STANDARDS	
REVISION DATE	SHEET 1 OF 1
803.25	