

DESIGN FACTORS FOR A DESIGN SPEED OF 30 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
2830	NC	0	0	0	0	0	0	0	0	0	0	0	0
1885	2.0	37	37	46	46	55	55	61	61	67	67	73	73
1734	2.1	37	39	46	48	55	58	61	64	67	70	73	77
1588	2.2	37	40	46	50	55	60	61	67	67	74	73	80
1442	2.3	37	42	46	53	55	63	61	70	67	77	73	84
1282	2.4	37	44	46	55	55	66	61	73	67	80	73	88
1134	2.5	37	46	46	57	55	69	61	76	67	84	73	91
1013	2.6	37	48	46	60	55	71	61	79	67	87	73	95
913	2.7	37	50	46	62	55	74	61	82	67	90	73	99
827	2.8	37	51	46	64	55	77	61	85	67	94	73	102
754	2.9	37	53	46	66	55	80	61	88	67	97	73	106
689	3.0	37	55	46	69	55	82	61	91	67	100	73	110
633	3.1	37	57	46	71	55	85	61	94	67	104	73	113
582	3.2	37	59	46	73	55	88	61	97	67	107	73	117
536	3.3	37	60	46	75	55	90	61	100	67	110	73	120
495	3.4	37	62	46	78	55	93	61	104	67	114	73	124
456	3.5	37	64	46	80	55	96	61	107	67	117	73	128
420	3.6	37	66	46	82	55	99	61	110	67	120	73	131
385	3.7	37	68	46	85	55	101	61	113	67	124	73	135
351	3.8	37	70	46	87	55	104	61	116	67	127	73	139
314	3.9	37	71	46	89	55	107	61	119	67	130	73	142
251	4.0	37	73	46	91	55	110	61	122	67	134	73	146

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.



ROAD AND BRIDGE STANDARDS

SHEET 1 OF 1

REVISION DATE

803.26

TRANSITION CURVES - URBAN 30 MPH DESIGN SPEED

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION
REFERENCE