SPECIFICATION REFERENCE

TRANSITION CURVES - RURAL
65 MPH DESIGN SPEED

VIRGINIA DEPARTMENT OF TRANSPORTATION

DESIGN FACTORS FOR A DESIGN SPEED OF 65 MPH (RURAL) USING E= 8% MAX.

DESIGN VELOCITY =65										WIDTH=22 FT			WIDTH=24 FT			WIDTH=48 FT			WIDTH=72 FT			INTERCHANGE RAMPS WIDTH			
										DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)												16 FT		18 FT	
										1 @ 11'			1 @ 12'			2 @ 12'			3 @ 12'						
RADIUS(FT)	E(%)									Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	Lt	Lr
12900	NC									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9566	2									52	52	0	56	56	0	84	84	0	112	112	0	66	66	70	70
9083	2.1									52	54	0	56	59	0	84	88	0	112	118	0	66	69	70	73
8643	2.2									52	57	0	56	62	0	84	93	0	112	123	0	66	72	70	77
8242	2.3									52	59	0	56	65	0	84	97	0	112	129	0	66	76	70	80
7873	2.4									52	62	0	56	67	0	84	101	0	112	134	0	66	79	70	84
7534	2.5									52	64	0	56	70	0	84	105	0	112	140	0	66	82	70	87
7221	2.6									52	67	0	56	73	0	84	109	0	112	146	0	66	85	70	90
6931	2.7									52	70	0	56	76	0	84	114	0	112	151	0	66	89	70	94
6662	2.8									52	72	0	56	79	0	84	118	0	112	157	0	66	92	70	97
6411	2.9									52	75	0	56	81	0	84	122	0	112	162	0	66	95	70	101
6176	3									52	77	0	56	84	0	84	126	0	112	168	0	66	98	70	104
5957	3.1									52	80	0	56	87	0	84	130	0	112	174	0	66	102	70	108
5751	3.2									52	82	0	56	90	0	84	134	0	112	179	0	66	105	70	111
5557	3.3									52	85	0	56	93	0	84	139	0	112	185	0	66	108	70	115
5375	3.4									52	87	0	56	95	0	84	143	0	112	190	0	66	112	70	118
5203	3.5									52	90	0	56	98	0	84	147	0	112	196	0	66	115	70	122
5040	3.6									52	93	0	56	101	0	84	151	0	112	201	0	66	118	70	125
4886	3.7									52	95	0	56	104	0	84	155	0	112	207	0	66	121	70	129
4740	3.8									52	98	0	56	107	0	84	160	0	112	213	0	66	125	70	132
4601	3.9									52	100	0	56	109	0	84	164	0	112	218	0	66	128	70	135
4469	4									52	103	0	56	112	0	84	168	0	112	224	0	66	131	70	139
4344	4.1									52	105	0	56	115	0	84	172	0	112	229	0	66	134	70	142
4224	4.2									52	108	0	56	118	0	84	176	0	112	235	0	66	138	70	146
4109	4.3									52	110	0	56	120	0	84	180	0	112	240	0	66	141	70	149
4000	4.4									52	113	0	56	123	0	84	185	0	112	246	0	66	144	70	153
3896	4.5									52	116	0	56	126	0	84	189	0	112	252	0	66	147	70	156
3795	4.6									52	118	0	56	129	0	84	193	0	112	257	0	66	151	70	160
3699	4.7									52	121	0	56	132	0	84	197	0	112	263	0	66	154	70	163
3607	4.8									52	123	0	56	134	0	84	201	0	112	268	0	66	157	70	167
3518	4.9									52	126	0	56	137	0	84	206	0	112	274	0	66	160	70	170
3433	5									52	128	0	56	140	0	84	210	0	112	280	0	66	164	70	174
3351	5.1									52	131	0	56	143	0	84	214	0	112	285	0	66	167	70	177
3272	5.2									52	134	0	56	146	0	84	218	0	112	291	0	66	170	70	180
3196	5.3									52	136	0	56	148	0	84	222	0	112	296	0	66	174	70	184
3122	5.4									52	139	0	56	151	0	84	227	0	112	302	0	66	177	70	187
3051	5.5									52	141	0	56	154	0	84	231	0	112	307	0	66	180	70	191
2982	5.6									52	144	0	56	157	0	84	235	0	112	313	0	66	183	70	194
2916	5.7									52	146	0	56	160	0	84	239	0	112	319	0	66	187	70	198
2852	5.8									52	149	0	56	162	0	84	243	0	112	324	0	66	190	70	201
2789	5.9									56	165	2	56	165	0	84	247	0	112	330	0	66	193	70	205
2729	6									56	168	2	56	168	0	84	252	0	112	335	0	66	196	70	208
2670	6.1									56	171	2	56	171	0	84	256	0	112	341	0	66	200	70	212
2613	6.2									57	174	2.1	56	174	0	84	260	0	112	347	0	66	203	70	215
2558	6.3									57	177	2.1	56	176	0	84	264	0	112	352	0	66	206	70	219
2504	6.4									57	180	2.1	56	179	0	84	268	0	112	358	0	66	209	70	222
2451	6.5									57	183	2.2	56	182	0	84	273	0	112	363	0	66	213	70	225
2398	6.6									57	186	2.2	56	185	0	84	277	0	112	369	0	66	216	70	229
2346	6.7									57	189	2.2	56	187	0	84	281	0	112	374	0	66	219	70	232
2294	6.8									57	193	2.3	56	190	0	84	285	0	112	380	0	66	223	70	236
2242	6.9									57	195	2.3	56	193	0	84	289	0	112	386	0	66	226	70	239
2191	7									57	198	2.3	56	196	0	84	294	0	112	391	0	66	229	70	243
2139	7.1									57	202	2.4	56	199	0	84	298	0	112	397	0	66	232	70	246
2087	7.2									57	205	2.4	56	201	0	84	302	0	112	402	0	66	236	70	250
2034	7.3									57	208	2.4	56	204	0	84	306	0	112	408	0	66	239	70	253
1980	7.4									57	211	2.5	56	207	0	84	310	0	112	414	0	66	242	70	257
1924	7.5									57	214	2.5	56	210	0	84	314	0	112	419	0	66	245	70	260
1867	7.6									58	218	2.6	56	213	0	84	319	0	112	425	0	66	249	70	264
1805	7.7									58	222	2.7	56	215	0	84	323	0	112	430	0	66	252	70	267
1737	7.8									58	225	2.7	56	218	0	84	327	0	112	436	0	66	255	70	270
1656	7.9									58	228	2.8	56	221	0	84	331	0	112	441	0	66	258	70	274
1488	8									59	233	3	61	242	2	91	363	4	121	484	6	66	262	70	277

NOTE:
Lt, Lr & w VALUES IN FEET. LISTED RADIUS IS THE MINIMUM ALLOWABLE RADIUS FOR THE CORRESPONDING E, Lt, Lr, AND w VALUES.
WIDENING SHOWN IS BASED ON A WB-62 DESIGN VEHICLE.

VDOT ROAD AND BRIDGE STANDARDS

REVISION DATE 01/13

SHEET 1 OF 1

803.41

TC-5.11