

DESIGN FACTORS FOR A DESIGN SPEED OF 25 MPH (RURAL) USING E = 8% MAX.

DESIGN VELOCITY -25	DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)												INTERCHANGE RAMPS						
	WIDTH+ 18 FT			WIDTH+20 FT			WIDTH+22 FT			WIDTH+24 FT			WIDTH+48 FT			16 FT		18 FT	
	DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)			DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)			DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)			DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)			DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)			CR		LS	
	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	CR	LS
2500	NC	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0
1756	2.0	26	26	0.0	29	29	0.0	32	32	0.0	35	35	0.0	32	32	0.0	52	52	40
1664	2.1	77	80	2.0	29	30	0.0	32	33	0.0	35	36	0.0	52	54	0.0	40	42	43
1579	2.2	73	80	2.0	29	32	0.0	32	35	0.0	35	38	0.0	52	57	0.0	40	44	43
1502	2.3	70	80	2.0	29	33	0.0	33	37	0.0	35	40	0.0	52	60	0.0	40	46	43
1431	2.4	67	80	2.1	29	35	0.0	32	38	0.0	35	42	0.0	52	62	0.0	40	48	43
1366	2.5	64	80	2.1	29	36	0.0	32	40	0.0	35	43	0.0	52	65	0.0	40	50	43
1306	2.6	62	80	2.1	29	38	0.0	32	41	0.0	35	45	0.0	52	67	0.0	40	52	43
1250	2.7	60	80	2.1	29	39	0.0	32	43	0.0	35	47	0.0	52	70	0.0	40	54	38
1198	2.8	58	80	2.2	29	40	0.0	32	44	0.0	35	48	0.0	52	72	0.0	40	56	43
1149	2.9	56	80	2.2	29	42	0.0	32	46	0.0	35	50	0.0	52	75	0.0	40	58	43
1104	3.0	54	80	2.2	29	43	0.0	32	49	0.0	35	52	0.0	52	78	0.0	40	60	43
1061	3.1	52	80	2.3	29	45	0.0	32	49	0.0	35	54	0.0	52	80	0.0	40	62	43
1021	3.2	50	80	2.3	29	46	0.0	32	51	0.0	35	55	0.0	52	83	0.0	40	64	43
983	3.3	49	80	2.3	29	48	0.0	32	52	0.0	35	57	0.0	52	85	0.0	40	66	43
948	3.4	48	80	2.4	29	49	0.0	32	54	0.0	35	59	0.0	52	88	0.0	40	68	43
914	3.5	46	80	2.4	29	50	0.0	32	55	0.0	35	60	0.0	52	90	0.0	40	70	43
882	3.6	45	80	2.4	29	52	0.0	32	57	0.0	35	62	0.0	52	93	0.0	40	72	43
852	3.7	44	80	2.5	29	53	0.0	32	59	0.0	35	64	0.0	52	96	0.0	40	74	43
823	3.8	43	80	2.5	29	55	0.0	32	60	0.0	35	66	0.0	52	98	0.0	40	76	43
795	3.9	42	80	2.6	29	56	0.0	32	62	0.0	35	67	0.0	52	101	0.0	40	78	43
769	4.0	40	80	2.6	29	58	0.0	32	63	0.0	35	69	0.0	52	103	0.0	40	80	43
744	4.1	40	80	2.6	29	59	0.0	32	65	0.0	35	71	0.0	52	106	0.0	40	82	43
720	4.2	39	80	2.7	29	60	0.0	32	66	0.0	35	72	0.0	52	108	0.0	40	84	43
696	4.3	38	80	2.7	29	62	0.0	32	68	0.0	35	74	0.0	52	111	0.0	40	86	43
674	4.4	37	80	2.7	29	63	0.0	32	70	0.0	35	76	0.0	52	114	0.0	40	88	43
652	4.5	36	80	2.8	29	65	0.0	32	71	0.0	35	78	0.0	52	116	0.0	40	90	43
632	4.6	35	80	2.8	29	66	0.0	32	73	0.0	35	79	0.0	52	119	0.0	40	92	43
612	4.7	35	80	2.9	29	68	0.0	32	74	0.0	35	81	0.0	52	121	0.0	40	94	43
592	4.8	34	80	2.9	29	69	0.0	32	76	0.0	35	83	0.0	52	124	0.0	40	96	43
573	4.9	33	80	2.9	29	70	0.0	32	77	0.0	35	84	0.0	52	126	0.0	40	98	43
555	5.0	32	80	3.0	32	80	2.0	32	79	0.0	35	86	0.0	52	129	0.0	40	100	43
537	5.1	32	80	3.0	32	81	2.0	32	81	0.0	35	88	0.0	52	132	0.0	40	102	43
519	5.2	31	80	3.1	32	83	2.1	32	82	0.0	35	90	0.0	52	134	0.0	40	104	43
502	5.3	31	80	3.1	32	84	2.1	32	84	0.0	35	91	0.0	52	137	0.0	40	106	43
485	5.4	31	82	3.2	32	86	2.2	32	85	0.0	35	93	0.0	52	139	0.0	40	108	43
468	5.5	31	84	3.2	32	88	2.2	32	87	0.0	35	95	0.0	52	142	0.0	40	110	43
452	5.6	31	86	3.3	33	90	2.3	32	88	0.0	35	96	0.0	52	144	0.0	40	112	43
437	5.7	31	88	3.4	33	92	2.4	32	90	0.0	35	98	0.0	52	147	0.0	40	114	43
423	5.8	31	89	3.4	33	93	2.4	32	92	0.0	35	100	0.0	52	150	0.0	40	116	43
409	5.9	31	91	3.5	33	95	2.5	32	93	0.0	35	102	0.0	52	152	0.0	40	118	43
396	6.0	31	93	3.5	33	97	2.5	32	95	0.0	35	103	0.0	52	155	0.0	40	120	43
383	6.1	32	95	3.6	33	99	2.6	32	96	0.0	35	105	0.0	52	157	0.0	40	122	43
371	6.2	32	97	3.7	33	101	2.7	32	98	0.0	35	107	0.0	52	160	0.0	40	124	43
359	6.3	32	98	3.7	33	103	2.7	32	99	0.0	35	108	0.0	52	162	0.0	40	126	43
347	6.4	32	100	3.8	33	105	2.8	32	101	0.0	35	110	0.0	52	165	0.0	40	128	43
336	6.5	32	102	3.9	33	103	2.9	32	103	0.0	35	112	0.0	52	168	0.0	40	130	43
326	6.6	32	104	3.9	33	108	2.9	32	104	0.0	35	114	0.0	52	170	0.0	40	132	43
315	6.7	32	106	4.0	34	111	3.0	35	115	2.0	35	115	0.0	56	187	2.0	40	134	43
305	6.8	32	108	4.1	34	113	3.1	35	118	2.1	35	117	0.0	57	191	2.2	40	136	43
295	6.9	32	110	4.2	34	115	3.2	35	120	2.2	35	119	0.0	57	196	2.4	40	138	43
286	7.0	32	111	4.2	34	116	3.2	35	121	2.2	35	120	0.0	57	198	2.4	40	140	43
276	7.1	33	114	4.3	34	119	3.3	35	124	2.3	35	122	0.0	58	203	2.6	40	142	43
267	7.2	33	116	4.4	34	121	3.4	35	126	2.4	35	124	0.0	58	207	2.8	40	144	43
258	7.3	33	118	4.5	34	123	3.5	36	128	2.5	35	126	0.0	59	212	3.0	40	146	43
248	7.4	33	120	4.6	34	125	3.6	36	131	2.6	35	127	0.0	59	216	3.2	40	148	43
239	7.5	33	122	4.7	34	127	3.7	36	133	2.7	35	129	0.0	59	221	3.4	40	150	43
229	7.6	33	124	4.8	35	130	3.8	36	135	2.8	35	131	0.0	60	225	3.6	40	152	43
219	7.7	33	127	5.0	35	132	4.0	36	138	3.0	38	143	2.0	60	231	4.0	40	154	43
209	7.8	34	129	5.1	35	135	4.1	36	140	3.1	38	146	2.1	61	236	4.2	40	156	43
196	7.9	34	132	5.3	35	138	4.3	37	143	3.3	38	149	2.3	62	243	4.6	40	158	43
172	8.0	34	136	5.8	36	142	4.8	37	148	3.8	39	154	2.8	64	254	5.6	40	160	43

TC-5.01

NOTE: CR, LS & w VALUES IN FEET. LISTED RADIUS IS THE MINIMUM ALLOWABLE RADIUS FOR THE CORRESPONDING E, CR, LS, AND w VALUES.

TRANSITION CURVES - RURAL
25 MPH DESIGN SPEED

VIRGINIA DEPARTMENT OF TRANSPORTATION