

DESIGN FACTORS FOR A DESIGN SPEED OF 60 km/h (RURAL) USING E- 8% MAX.

DESIGN VELOCITY -60	DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)												INTERCHANGE RAMP									
	WIDTH= 5.4 m			WIDTH=6.0 m			WIDTH=6.6 m			WIDTH=7.2 m			WIDTH=14.4 m			WIDTH=21.6 m			WIDTH			
	1 e 2.7 m		1 e 3.0 m		1 e 3.3 m		1 e 3.6 m		1 e 3.6 m		2 e 3.6 m		3 e 3.6 m		4.8 m		5.4 m					
RADIUS (m)	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	Lt	Lr	Lt	Lr	
1500	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1097	2.0	9	9	10	0.0	10	0.0	11	11	0.0	12	0.0	18	18	0.0	24	0.0	24	0.0	15	15	15
1040	2.1	9	10	0.0	10	11	0.0	11	12	0.0	12	0.0	18	19	0.0	24	0.0	26	0.0	15	15	16
988	2.2	9	10	0.0	10	11	0.0	11	13	0.0	12	0.0	18	20	0.0	24	0.0	27	0.0	15	16	17
940	2.3	9	11	0.0	10	12	0.0	11	13	0.0	12	0.0	18	21	0.0	24	0.0	28	0.0	15	17	18
896	2.4	9	11	0.0	10	12	0.0	11	14	0.0	12	0.0	18	22	0.0	24	0.0	29	0.0	15	17	18
856	2.5	9	12	0.0	10	13	0.0	11	14	0.0	12	0.0	18	23	0.0	24	0.0	30	0.0	15	18	19
851	2.6	9	12	0.0	10	13	0.0	11	15	0.0	12	0.0	18	24	0.0	24	0.0	32	0.0	15	19	20
850	2.6	27	35	0.6	10	13	0.0	11	15	0.0	12	0.0	18	24	0.0	24	0.0	32	0.0	15	19	20
819	2.6	27	35	0.6	10	13	0.0	11	15	0.0	12	0.0	18	24	0.0	24	0.0	32	0.0	15	19	20
785	2.7	26	35	0.6	10	14	0.0	11	15	0.0	12	0.0	18	24	0.0	24	0.0	32	0.0	15	20	21
753	2.8	25	35	0.6	10	14	0.0	11	16	0.0	12	0.0	18	25	0.0	24	0.0	33	0.0	15	20	21
723	2.9	25	35	0.6	10	15	0.0	11	16	0.0	12	0.0	18	26	0.0	24	0.0	34	0.0	15	20	21
695	3.0	24	35	0.6	10	15	0.0	11	17	0.0	12	0.0	18	27	0.0	24	0.0	35	0.0	15	21	22
669	3.1	23	35	0.6	10	16	0.0	11	17	0.0	12	0.0	18	27	0.0	24	0.0	36	0.0	15	21	22
644	3.2	22	35	0.7	10	16	0.0	11	18	0.0	12	0.0	18	28	0.0	24	0.0	38	0.0	15	22	23
621	3.3	22	35	0.7	10	17	0.0	11	19	0.0	12	0.0	18	29	0.0	24	0.0	39	0.0	15	22	24
599	3.4	21	35	0.7	10	17	0.0	11	19	0.0	12	0.0	18	30	0.0	24	0.0	40	0.0	15	23	24
578	3.5	20	35	0.7	10	18	0.0	11	20	0.0	12	0.0	18	31	0.0	24	0.0	41	0.0	15	24	25
559	3.6	20	35	0.7	10	18	0.0	11	20	0.0	12	0.0	18	32	0.0	24	0.0	42	0.0	15	25	27
540	3.7	19	35	0.7	10	19	0.0	11	21	0.0	12	0.0	18	33	0.0	24	0.0	44	0.0	15	26	27
523	3.8	19	35	0.7	10	19	0.0	11	21	0.0	12	0.0	18	34	0.0	24	0.0	45	0.0	15	27	28
506	3.9	18	35	0.7	10	20	0.0	11	22	0.0	12	0.0	18	35	0.0	24	0.0	46	0.0	15	27	29
490	4.0	18	35	0.7	10	20	0.0	11	22	0.0	12	0.0	18	36	0.0	24	0.0	47	0.0	15	28	30
475	4.1	18	35	0.7	10	21	0.0	11	23	0.0	12	0.0	18	37	0.0	24	0.0	48	0.0	15	29	31
460	4.2	17	35	0.7	10	21	0.0	11	24	0.0	12	0.0	18	38	0.0	24	0.0	50	0.0	15	29	32
446	4.3	17	35	0.7	10	22	0.0	11	24	0.0	12	0.0	18	39	0.0	24	0.0	51	0.0	15	30	31
433	4.4	16	35	0.7	10	22	0.0	11	25	0.0	12	0.0	18	40	0.0	24	0.0	52	0.0	15	31	33
420	4.5	16	35	0.8	10	23	0.0	11	25	0.0	12	0.0	18	41	0.0	24	0.0	53	0.0	15	32	33
407	4.6	16	35	0.8	10	23	0.0	11	26	0.0	12	0.0	18	42	0.0	24	0.0	54	0.0	15	32	34
395	4.7	15	35	0.8	10	24	0.0	11	26	0.0	12	0.0	18	43	0.0	24	0.0	56	0.0	15	33	35
384	4.8	15	35	0.8	10	24	0.0	11	27	0.0	12	0.0	18	44	0.0	24	0.0	57	0.0	15	34	36
373	4.9	15	35	0.8	10	25	0.0	11	27	0.0	12	0.0	18	44	0.0	24	0.0	58	0.0	15	34	36
362	5.0	14	35	0.8	10	25	0.0	11	28	0.0	12	0.0	18	45	0.0	24	0.0	59	0.0	15	35	37
352	5.1	14	35	0.8	10	26	0.0	11	28	0.0	12	0.0	18	45	0.0	24	0.0	60	0.0	15	36	38
341	5.2	14	35	0.8	10	26	0.0	11	29	0.0	12	0.0	18	46	0.0	24	0.0	62	0.0	15	36	39
332	5.3	14	35	0.8	10	27	0.0	11	29	0.0	12	0.0	18	47	0.0	24	0.0	63	0.0	15	37	39
322	5.4	13	35	0.8	10	27	0.0	11	30	0.0	12	0.0	18	48	0.0	24	0.0	64	0.0	15	38	40
313	5.5	13	35	0.8	10	27	0.0	11	30	0.0	12	0.0	18	49	0.0	24	0.0	66	0.0	15	39	41
303	5.6	13	35	0.8	10	28	0.0	11	31	0.0	12	0.0	18	50	0.0	24	0.0	66	0.0	15	39	42
294	5.7	13	35	0.9	13	35	0.6	11	32	0.0	12	0.0	18	51	0.0	24	0.0	68	0.0	15	40	42
286	5.8	13	35	0.9	12	35	0.6	11	32	0.0	12	0.0	18	52	0.0	24	0.0	69	0.0	15	41	43
277	5.9	12	35	0.9	12	35	0.6	11	33	0.0	12	0.0	18	53	0.0	24	0.0	70	0.0	15	41	44
269	6.0	12	35	0.9	12	35	0.6	11	33	0.0	12	0.0	18	54	0.0	24	0.0	72	0.0	15	42	45
262	6.1	12	35	0.9	12	35	0.6	11	34	0.0	12	0.0	18	55	0.0	24	0.0	74	0.0	15	44	46
254	6.2	12	35	0.9	11	35	0.6	11	35	0.0	12	0.0	18	56	0.0	24	0.0	75	0.0	15	44	47
247	6.3	12	35	0.9	11	35	0.6	11	35	0.0	12	0.0	18	57	0.0	24	0.0	76	0.0	15	45	48
240	6.4	11	35	0.9	11	36	0.6	11	36	0.0	12	0.0	18	58	0.0	24	0.0	77	0.0	15	46	48
233	6.5	11	35	0.9	11	36	0.6	11	36	0.0	12	0.0	18	59	0.0	24	0.0	78	0.0	15	46	49
226	6.6	11	35	0.9	11	37	0.6	11	37	0.0	12	0.0	18	60	0.0	24	0.0	80	0.0	15	47	50
219	6.7	11	36	1.0	12	38	0.7	11	37	0.0	12	0.0	18	61	0.0	24	0.0	81	0.0	15	48	51
213	6.8	11	37	1.0	12	38	0.7	11	38	0.0	12	0.0	18	62	0.0	24	0.0	82	0.0	15	48	51
207	6.9	11	37	1.0	12	39	0.7	11	38	0.0	12	0.0	18	63	0.0	24	0.0	83	0.0	15	49	52
200	7.0	11	38	1.0	12	40	0.7	11	39	0.0	12	0.0	18	63	0.0	24	0.0	84	0.0	15	50	53
194	7.1	11	38	1.0	12	40	0.7	11	40	0.0	12	0.0	18	64	0.0	24	0.0	86	0.0	15	51	54
188	7.2	11	39	1.0	12	41	0.7	11	40	0.0	12	0.0	18	65	0.0	24	0.0	87	0.0	15	51	54
182	7.3	11	39	1.0	12	41	0.7	11	41	0.0	12	0.0	18	66	0.0	24	0.0	88	0.0	15	52	55
176	7.4	11	41	1.1	12	42	0.8	11	41	0.0	12	0.0	18	67	0.0	26	0.0	94	0.6	15	53	56
170	7.5	11	41	1.1	12	43	0.8	11	42	0.0	12	0.0	18	68	0.0	26	0.0	95	0.6	15	53	57
163	7.6	11	42	1.1	12	44	0.8	11	42	0.0	12	0.0	18	69	0.0	26	0.0	97	0.6	15	54	57
157	7.7	11	42	1.1	12	44	0.8	11	43	0.0	12	0.0	18	70	0.0	26	0.0	98	0.6	15	55	58
149	7.8	11	43	1.1	12	45	0.8	11	43	0.0	12	0.0	18	71	0.0	26	0.0	99	0.6	15	56	59
141	7.9	11	44	1.2	12	46	0.9	12	48	0.6	12	48	0.0	18	72	0.0	26	103	0.9	15	56	60
124	8.0	12	45	1.3	12	48	1.0	13	50	0.7	12	48	0.0	18	73	0.0	27	108	1.2	15	58	61

NOTE: Lt, Lr & w VALUES IN METERS. LISTED RADIUS IS THE MINIMUM ALLOWABLE RADIUS FOR THE CORRESPONDING E, Lt, Lr, AND w VALUES.

SPECIFICATION REFERENCE

TRANSITION CURVES - RURAL
60 km/h DESIGN SPEED

VIRGINIA DEPARTMENT OF TRANSPORTATION