

DESIGN VELOCITY =75		DESIGN FACTORS FOR A DESIGN SPEED OF 75 MPH (RURAL) USING E= 8% MAX.																							
		DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)						WIDTH-48 FT						WIDTH-72 FT						INTERCHANGE RAMPS					
		1 @ 11'			1 @ 12'			2 @ 12'			3 @ 12'			16 FT			18 FT								
RADIUS(FT)		E(%)	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w					
16100	NC		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
12200	2		58	58	0	64	64	0	95	95	0	127	127	0	75	75	0	75	75	0	79	79			
11805	2.1		58	61	0	64	67	0	95	100	0	127	134	0	75	79	0	75	79	0	83	83			
10920	2.2		58	64	0	64	70	0	95	105	0	127	140	0	75	82	0	75	82	0	79	87			
10483	2.3		58	67	0	64	73	0	95	109	0	127	146	0	75	86	0	75	86	0	79	90			
10001	2.4		58	70	0	64	76	0	95	114	0	127	153	0	75	90	0	75	90	0	79	94			
9559	2.5		58	73	0	64	79	0	95	119	0	127	159	0	75	94	0	75	94	0	79	98			
9152	2.6		58	76	0	64	83	0	95	124	0	127	166	0	75	97	0	75	97	0	102	102			
8777	2.7		58	79	0	64	86	0	95	128	0	127	172	0	75	101	0	75	101	0	106	106			
8507	2.8		58	82	0	64	89	0	95	133	0	127	178	0	75	105	0	75	105	0	110	110			
8181	2.9		58	84	0	64	92	0	95	138	0	127	185	0	75	108	0	75	108	0	114	114			
7950	3		58	87	0	64	95	0	95	143	0	127	191	0	75	112	0	75	112	0	118	118			
7664	3.1		58	90	0	64	98	0	95	147	0	127	197	0	75	116	0	75	116	0	122	122			
7397	3.2		58	93	0	64	102	0	95	152	0	127	204	0	75	120	0	75	120	0	126	126			
7275	3.3		58	96	0	64	105	0	95	157	0	127	210	0	75	123	0	75	123	0	130	130			
7034	3.4		58	99	0	64	108	0	95	162	0	127	216	0	75	127	0	75	127	0	134	134			
6809	3.5		58	102	0	64	111	0	95	166	0	127	223	0	75	131	0	75	131	0	137	137			
6477	3.6		58	105	0	64	114	0	95	171	0	127	229	0	75	134	0	75	134	0	141	141			
6279	3.7		58	108	0	64	117	0	95	176	0	127	235	0	75	138	0	75	138	0	145	145			
6091	3.8		58	110	0	64	120	0	95	180	0	127	242	0	75	142	0	75	142	0	149	149			
5967	3.9		58	113	0	64	124	0	95	185	0	127	248	0	75	146	0	75	146	0	153	153			
5797	4		58	116	0	64	127	0	95	190	0	127	254	0	75	149	0	75	149	0	157	157			
5635	4.1		58	119	0	64	130	0	95	195	0	127	261	0	75	153	0	75	153	0	161	161			
5579	4.2		58	122	0	64	133	0	95	199	0	127	267	0	75	157	0	75	157	0	165	165			
5430	4.3		58	125	0	64	136	0	95	204	0	127	273	0	75	160	0	75	160	0	169	169			
5287	4.4		58	128	0	64	139	0	95	209	0	127	280	0	75	164	0	75	164	0	173	173			
5151	4.5		58	131	0	64	143	0	95	214	0	127	286	0	75	168	0	75	168	0	177	177			
5020	4.6		58	134	0	64	146	0	95	218	0	127	292	0	75	172	0	75	172	0	180	180			
4881	4.7		58	137	0	64	149	0	95	223	0	127	299	0	75	175	0	75	175	0	184	184			
4762	4.8		58	139	0	64	152	0	95	228	0	127	305	0	75	179	0	75	179	0	188	188			
4647	4.9		58	142	0	64	155	0	95	233	0	127	312	0	75	183	0	75	183	0	192	192			
4537	5		58	145	0	64	158	0	95	237	0	127	318	0	75	187	0	75	187	0	196	196			
4464	5.1		58	148	0	64	162	0	95	242	0	127	324	0	75	190	0	75	190	0	200	200			
4362	5.2		58	151	0	64	165	0	95	247	0	127	331	0	75	194	0	75	194	0	204	204			
4263	5.3		58	154	0	64	168	0	95	252	0	127	337	0	75	198	0	75	198	0	208	208			
4169	5.4		58	157	0	64	171	0	95	256	0	127	343	0	75	201	0	75	201	0	212	212			
4023	5.5		58	160	0	64	174	0	95	261	0	127	350	0	75	205	0	75	205	0	216	216			
3980	5.6		58	163	0	64	177	0	95	266	0	127	356	0	75	209	0	75	209	0	220	220			
3938	5.7		58	165	0	64	180	0	95	270	0	127	362	0	75	213	0	75	213	0	224	224			
3804	5.8		58	168	0	64	184	0	95	275	0	127	369	0	75	216	0	75	216	0	227	227			
3725	5.9		58	171	0	64	187	0	95	280	0	127	375	0	75	220	0	75	220	0	231	231			
3648	6		58	174	0	64	190	0	95	285	0	127	381	0	75	224	0	75	224	0	235	235			
3574	6.1		58	177	0	64	193	0	95	289	0	127	388	0	75	227	0	75	227	0	239	239			
3533	6.2		58	180	0	64	196	0	95	294	0	127	394	0	75	231	0	75	231	0	243	243			
3462	6.3		58	183	0	64	199	0	95	299	0	127	400	0	75	235	0	75	235	0	247	247			
3394	6.4		58	186	0	64	203	0	95	304	0	127	407	0	75	239	0	75	239	0	251	251			
3328	6.5		58	189	0	64	206	0	95	308	0	127	413	0	75	242	0	75	242	0	255	255			
3268	6.6		64	209	2	64	209	0	95	313	0	127	419	0	75	246	0	75	246	0	259	259			
3209	6.7		64	212	2	64	212	0	95	318	0	127	426	0	75	250	0	75	250	0	263	263			
3149	6.8		64	215	2	64	215	0	95	323	0	127	432	0	75	254	0	75	254	0	267	267			
3088	6.9		64	218	2	64	218	0	95	327	0	127	438	0	75	257	0	75	257	0	270	270			
3029	7		64	222	2.1	64	222	0	95	332	0	127	445	0	75	261	0	75	261	0	274	274			
3010	7.1		64	226	2.1	64	225	0	95	337	0	127	451	0	75	265	0	75	265	0	278	278			
2942	7.2		64	229	2.1	64	228	0	95	342	0	127	458	0	75	268	0	75	268	0	282	282			
2856	7.3		64	232	2.1	64	231	0	95	346	0	127	464	0	75	272	0	75	272	0	286	286			
2796	7.4		64	236	2.2	64	234	0	95	351	0	127	470	0	75	276	0	75	276	0	290	290			
2781	7.5		64	239	2.2	64	237	0	95	356	0	127	477	0	75	280	0	75	280	0	294	294			
2704	7.6		64	242	2.2	64	240	0	95	360	0	127	483	0	75	283	0	75	283	0	298	298			
2615	7.7		64	247	2.3	64	244	0	95	365	0	127	489	0	75	287	0	75	287	0	302	302			
2520	7.8		64	250	2.3	64	247	0	95	370	0	127	496	0	75	291	0	75	291	0	306	306			
2480	7.9		64	253	2.3	64	250	0	95	375	0	127	502	0	75	294	0	75	294	0	310	310			
2215	8		65	258	2.5	64	253	0	95	379	0	127	508	0	75	298	0	75	298	0	314	314			

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.

SPECIFICATION REFERENCE

TRANSITION CURVES - RURAL

75 MPH DESIGN SPEED

VIRGINIA DEPARTMENT OF TRANSPORTATION



ROAD AND BRIDGE STANDARDS

REVISION DATE 01/13 SHEET 1 OF 1
803.43