

**SUPERELEVATION VALUES FOR PRESERVATION PROJECTS
RURAL - ROTATING ABOUT EDGE LINE**

POSTED SPEED	30 MPH				35 MPH				40 MPH				45 MPH				50 MPH				55 MPH				60 MPH				65 MPH				70 MPH			
	Radius	Degree	e (%)		Lr		e (%)		Lr		e (%)		Lr		e (%)		Lr		e (%)		Lr		e (%)		Lr		e (%)		Lr		e (%)		Lr			
			MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES	MIN	DES		
≥11500	0°30'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
8000	0°42'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
7650	0°44'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
7000	0°49'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
6000	0°57'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
5730	1°00'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
5000	1°08'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
4000	1°25'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
3000	1°54'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
2865	2°00'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
1910	3°00'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
1630	3°30'	NC	RC	68	NC	RC	73	NC	RC	78	NC	RC	83	NC	RC	90	NC	RC	96	NC	RC	100	NC	RC	105	NC	RC	110	NC	RC	113	NC	RC			
1430	4°00'	NC	2.9	90	NC	4.1	119	NC	5.1	158	NC	6.1	203	NC	7.2	259	RC	8.3	318	4.9	9.5	198	380	8.7	10	364	419									
1340	4°16'	NC	3.4	93	NC	4.4	128	NC	5.4	168	NC	6.4	213	RC	7.6	274	RC	8.7	333	6.0	9.6	240	384	10		419										
1146	5°00'	NC	3.9	106	NC	5	145	NC	6.1	189	NC	7.2	240	RC	8.4	302	4.7	9.4	180	380	9.0	10	380	400												
1080	5°15'	NC	4.1	112	NC	5.2	151	NC	6.3	196	RC	7.5	250	RC	8.6	310	5.6	9.6	214	388	10		400													
1000	5°43'	NC	4.4	120	NC	5.5	160	NC	6.7	208	RC	7.9	263	2.7	9.1	90	328	7.3	9.9	280	379															
950	6°00'	NC	4.6	125	NC	5.8	168	NC	7	217	RC	8.2	273	3.6	9.3	130	335	8.3	10	318	383															
900	6°21'	NC	4.8	131	NC	6	174	NC	7.2	223	RC	8.4	280	4.6	9.5	166	342	9.5		384																
877	6°31'	NC	4.9	134	NC	6.1	177	NC	7.4	230	RC	8.6	287	5.1	9.6	184	346	10		383																
850	6°44'	NC	5	136	NC	6.2	180	NC	7.5	233	RC	8.7	290	5.7	9.7	205	349																			
818	7°00'	NC	5.2	142	NC	6.4	186	NC	7.7	239	RC	8.9	297	6.5	9.8	234	353																			
800	7°09'	NC	5.2	142	NC	6.5	189	NC	7.8	242	RC	9	300	6.9	9.9	248	356																			
750	7°38'	NC	5.5	150	NC	6.8	197	RC	8.1	251	3.1	9.3	103	310	8.3	10	299	360																		
716	8°00'	NC	5.7	155	NC	7	203	RC	8.3	258	3.9	9.5	130	317	9.4		338																			
700	8°11'	NC	5.8	158	NC	7.1	206	RC	8.4	261	4.4	9.6	147	320	9.9		356																			
684	8°15'	NC	5.8	158	NC	7.1	206	RC	8.5	264	4.5	9.6	150	320	10		360																			
650	8°48'	NC	6.1	168	NC	7.4	215	RC	8.8	273	5.9	9.8	197	327																						
636	9°00'	NC	6.2	169	NC	7.5	218	RC	8.9	276	6.3	9.9	210	330																						
600	9°32'	NC	6.4	175	NC	7.7	224	RC	9.1	282	7.6	10	253	333																						
573	10°00'	NC	6.6	180	NC	7.9	229	2.7	9.3	84	289	8.7	10	290	333																					
550	10°25'	NC	6.8	185	NC	8.1	235	3.5	9.5	109	295	9.7	10	323	333																					
540	10°38'	NC	6.8	185	NC	8.2	238	3.8	9.5	118	295	10	10	333	333																					
521	11°00'	NC	7	191	RC	8.4	73	244	4.6	9.7	143	301																								
500	11°27'	NC	7.1	194	RC	8.6	73	250	5.4	9.8	168	304																								
477	12°00'	NC	7.3	199	RC	8.8	73	255	6.5	9.9	202	307																								
450	12°43'	NC	7.6	207	RC	9	73	261	7.8	10	242	310																								
441	13°00'	NC	7.6	207	RC	9.1	73	264	8.3	10	258	310																								
410	13°58'	NC	7.9	215	RC	9.4	73	273	10	10	310	310																								
406	14°00'	NC	8	218	RC	9.4	73	273																												
400	14°19'	NC	8	218	RC	9.5	73	276																												
358	16°00'	NC	8.5	232	4.9	9.8	142	285																												
318	18°00'	RC	9	68	245	7.8	10	226	290																											
282	19°37'	RC	9.3	68	254	10	10	290	290																											
286	20°00'	RC	9.4	68	256																															
250	22°55'	4.1	9.8	68	267																															
200	28°38'	10	10	68	273																															
R min				200				292					410					540			664				877					1090		1340	1630			
R min nc				343				527					790					1080			1449				1921					2526		3314	4356			
R min rc				267				398					577					771			1010				1301					1855		2086	2613			
Runout				68				73					78					83			90				96					100		105	113			
f				0.2				0.18					0.16					0.15			0.14				0.13					0.12		0.11	0.10			

e = RATE OF SUPERELEVATION (%)
Lr = DESIRED LENGTH OF SUPERELEVATION RUNOFF (FT)
MPH = MILES PER HOUR
NC = NORMAL CROWN
RC = REVERSE CROWN
f = SIDE FRICTION FACTOR

ALL LENGTHS IN TABLE ARE GIVEN IN FEET


SUPERELEVATION TRANSITION LENGTH, L1 = TANGENT RUNOUT + SUPERELEVATION RUNOFF, Lr

NOTES:

THE DESIRED VALUES ARE IN ACCORDANCE WITH THE LATEST LADOTD DESIGN GUIDELINES AND SHALL BE USED WHERE FEASIBLE. IF CONSTRAINTS DO NOT ALLOW THE USE OF THESE FACTORS, THEN THE HIGHEST PRACTICAL LESSOR VALUE MAY BE USED. MINIMUM VALUES WILL BE BASED ON THE EXISTING CONDITIONS OF THE ROADWAY. IF THE EXISTING CONDITIONS ARE USED, THEY MUST BE IDENTIFIED PRIOR TO ANY CHANGES OF THE EXISTING SURFACE AND APPROVED BY THE PROJECT ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEGREE OF ALL CURVES AND FOR THE ACCURACY OF THE PROPOSED CURVE LAYOUT(S). THE CONTRACTOR SHALL SUBMIT THE CURVE LAYOUT(S) TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.

ALL WORK SHALL BE PAID FOR UNDER BID ITEM 740-01-00100, CONSTRUCTION LAYOUT.

PRRSV-01-EL		SUPERELEVATION VALUES				DESIGNED CHECKED		PARISH		SHEET NO.
		RURAL PRR PROJECTS				DETAILED CHECKED		CONTROL SECTION		
		NO.	DATE	REVISION DESCRIPTION		BY	DATE SHEET	04-15-11	STATE PROJECT	