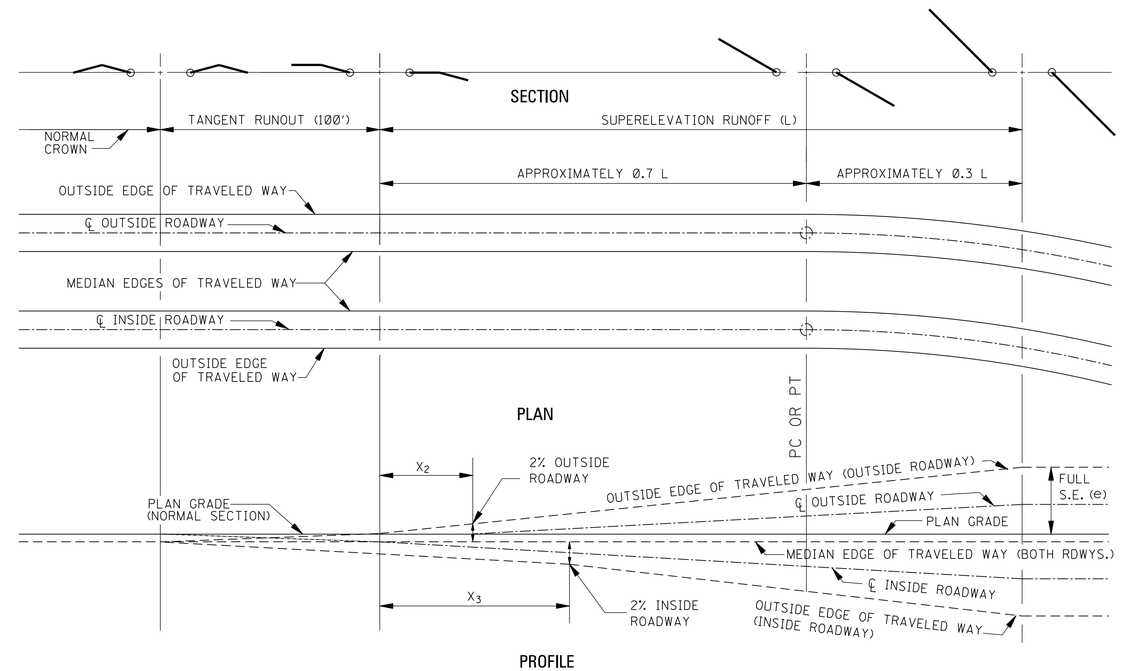
STATE	PROJECT NO.
MISS.	

SUPERELEVATION RUNOFF FOR HORIZONTAL CURVES

e	V = 30 mph		V = 35 mph		V = 40 mph		V = 45 mph		V = 50 mph		V = 55 mph		V = 60 mph		V = 65 mph		V = 70 mph	
	L (ft)		L (ft)		L (ft)		L (ft)		L (ft)		L (ft)		L (ft)		L (ft)		L (ft)	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
0.020	36	55	39	58	41	62	44	67	48	72	51	77	53	80	56	84	60	90
0.022	40	60	43	64	46	68	49	73	53	79	56	84	59	88	61	92	66	99
0.024	44	65	46	70	50	74	53	80	58	86	61	92	64	96	67	100	72	108
0.026	47	71	50	75	54	81	58	87	62	94	66	100	69	104	73	109	78	117
0.028	51	76	54	81	58	87	62	93	67	101	71	107	75	112	78	117	84	126
0.030	55	82	58	87	62	93	67	100	72	108	77	115	80	120	84	126	90	135
0.032	58	87	62	93	66	99	71	107	77	115	82	123	85	128	89	134	96	144
0.034	62	93	66	99	70	106	76	113	82	122	87	130	91	136	95	142	102	153
0.036	65	98	70	105	74	112	80	120	86	130	92	138	96	144	100	151	108	162
0.038	69	104	74	110	79	118	84	127	91	137	97	146	101	152	106	159	114	171
0.040	73	109	77	116	83	124	89	133	96	144	102	153	107	160	112	167	120	180
0.042	76	115	81	122	87	130	93	140	101	151	107	161	112	168	117	176	126	189
0.044	80	120	85	128	91	137	98	147	106	158	112	169	117	176	123	184	132	198
0.046	84	125	89	134	95	143	102	153	110	166	117	176	123	184	128	193	138	207
0.048	87	131	93	139	99	149	107	160	115	173	123	184	128	192	134	201	144	216
0.050	91	136	97	145	103	155	111	167	120	180	128	191	133	200	140	209	150	225
0.052	95	142	101	151	108	161	116	173	125	187	133	199	139	208	145	218	156	234
0.054	98	147	105	157	112	168	120	180	130	194	138	207	144	216	151	226	162	243
0.056	102	153	108	163	116	174	124	187	134	202	143	214	149	224	156	234	168	252
0.058	105	158	112	168	120	180	129	193	139	209	148	222	155	232	162	243	174	261
0.060	109	164	116	174	124	186	133	200	144	216	153	230	160	240	167	251	180	270
0.062	113	169	120	180	128	192	138	207	149	223	158	237	165	248	173	260	186	279
0.064	116	175	124	186	132	199	142	213	154	230	163	245	171	256	179	268	192	288
0.066	120	180	128	192	137	205	147	220	158	238	169	253	176	264	184	276	198	297
0.068	124	185	132	197	141	211	151	227	163	245	174	260	181	272	190	285	204	306
0.070	127	191	135	203	145	217	156	233	168	252	179	268	187	280	195	293	210	315
0.072	131	196	139	209	149	223	160	240	173	259	184	276	192	288	201	301	216	324
0.074	135	202	143	215	153	230	164	247	178	266	189	283	197	296	207	310	222	333
0.076	138	207	147	221	157	236	169	253	182	274	194	291	203	304	212	318	228	342
0.078	142	213	151	226	161	242	173	260	187	281	199	299	208	312	218	327	234	351
0.080	145	218	155	232	166	248	178	267	192	288	204	306	213	320	223	335	240	360
0.082	149	224	159	238	170	254	182	273	197	295	209	314	219	328	229	343	246	369
0.084	153	229	163	244	174	261	187	280	202	302	214	322	224	336	234	352	252	378
0.086	156	235	166	250	178	267	191	287	206	310	220	329	229	344	240	360	258	387
0.088	160	240	170	255	182	273	196	293	211	317	225	337	235	352	246	368	264	396
0.090	164	245	174	261	186	279	200	300	216	324	230	345	240	360	251	377	270	405
0.092	167	251	178	267	190	286	204	307	221	331	235	352	245	368	257	385	276	414
0.094	171	256	182	273	194	292	209	313	226	338	240	360	251	376	262	393	282	423
0.096	175	262	186	279	199	298	213	320	230	346	245	368	256	384	268	402	288	432
0.098	178	267	190	285	203	304	218	327	235	353	250	375	261	392	273	410	294	441
0.100	182	273	194	290	207	310	222	333	240	360	255	383	267	400	279	419	300	450



$$X_2 = L\left[\frac{12(NC\ SLOPE)}{(24(e)-12(NC))}\right]$$

$$X_3 = L\left[\frac{12(NC\ SLOPE)}{12(e)}\right]$$

DIAGRAMMATIC PLAN AND PROFILE

KEY:
- V = DESIGN SPEED (mph)
- e = FULL SUPERELEVATION RATE (ft/ft)
- L = MINIMUM LENGTH OF SUPERELEVATION RUNOFF (FROM ADVERSE CROWN REMOVED TO FULL SUPER) (ft)
- A = "L" FOR 1-LANE WIDTH OF ROTATION
- B = "L" FOR 2-LANE WIDTH OF ROTATION

GENERAL NOTES:

1. "L" IN THE TABLE IS FOR ROTATION ABOUT THE EDGE OF 1 LANE ("A") AND 2 LANES ("B") OF TRAVELED WAYS
   MINIMUM LENGTH OF RUNOFF FOR VARIOUS WIDTHS ARE AS FOLLOWS:
   FOR ROTATING A WIDTH OF 3 TRAVEL LANES: L = (1.33)(L IN COLUMN B)
   FOR ROTATING A WIDTH OF 4 TRAVEL LANES: L = (1.67)(L IN COLUMN B)
2. SEE SHEET SDSE-2C or SDSE-2D FOR SE RATES
3. A VERTICAL CURVE WITH A LENGTH (IN FEET) EQUAL TO THE DESIGN SPEED (IN mph) SHOULD BE PLACED AT EXCESSIVE ANGULAR BREAKS.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPERELEVATION RUNOFF CASE II ROTATION ABOUT EDGE OF TRAVELED WAY

WORKING NUMBER SDRO-2

SHEET NUMBER

ISSUE DATE: