

Curve Details: Mile End to Dry Creek North

Jul-15

Note

- [1] Rated speed at ARTC Normal Limits (80mm cant deficiency and 55mm/sec rate of change of cant and cant deficiency with cog 2500mm above rail level, and twist fault of 5mm in 14m transition)
- [2] Cant deficiencies in mm shown where they are 75mm or more for existing curve speeds

Note in comments

TRC Curve data from track recordings



Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comments
Start	End				up	down					
0.740	0.990	R	500	30	55	40	40	68		TRC	
0.990	1.240	L	505	25	20	20	40	67		Some data from TRC	
1.500									Mile End Loop t/o		
1.500	1.625	R	220	45	20	20	40	45		Some data from TRC	
1.625									KRPT t/o		
1.724	2.170	R	250	15	60	60	40	45		TRC	
2.240	2.675	L	210	30	85	85	40	44		TRC	
2.720	2.825	R	900	25	40	25	80	89		TRC	
3.135	3.231	R	780	80	65	60	80	103		TRC	
3.290									N Adelaide MG diamonds		
3.329	3.765	R	600	80	40	45	80	90		TRC	
3.952	4.060	R	1500	30	50	50	80	117			
4.095	4.208	L	1500	30	50	50	110	117			
4.317	4.340	R	5000	0	0	0	110	130+			
4.809	5.257	L	1000	70	60	110	110	113			
5.267	5.445	R	1200	60	60	60	110	119			
6.138	6.256	L	1600	30	50	50	115	122			
6.266	6.383	R	1600	30	50	50	115	122			
6.983	7.315	L	730	90	60	60	50	102		TRC	
7.400	7.430	R	500	45	40	40	50	75		TRC	
7.480									Islington Frt up t/o		
8.898	9.348	R	4167	0	60	60	115	130+		TRC	
9.348	9.752	R	2445	10	60	60	115	130+			
9.778	10.074	R	1600	30	60	60	115	122			
10.130									Islington Frt dn t/o		
10.150	10.259	L	2450	10	40	40	115	130+		Some data from TRC	

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TRC Curve data from track recordings



Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comments
Start	End				up	down					
12.074	12.310	L	1200	60	60	60	115		119		
12.468	12.891	R	1000	70	60	60	110		112		
13.060										Dry Creek MPC mixed gauge diamond	
13.336	13.619	R	800	80	60	60	100		104		
13.909	14.400	L	800	60	60	60	80		97		Some data from TRC
14.527	14.937	R	1200	60	60	60	90		119		
15.558	15.745	R	1200	60	60	60	40		119		Speed account Dry Creek N office
15.771										Dry Creek	
16.350	16.536	L	1200	60	60	60	115		119		
16.959	17.058	L	2500	10	30	30	115		130+		TRC

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TRC Curve data from track recordings



Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comments
Start	End				up	down					
17.016										Greenfields	
17.857	17.955	L	2400	10	60	60	115		130+		
17.983	18.197	R	2400	10	60	60	115		130+		
18.100										Parafield Gdns	
18.877	18.982	L	2400	10	60	60	115		130+		
19.059	19.300	R	2400	10	60	60	115		130+		
19.219										Parafield	
19.361	19.508	L	2400	10	60	60	115		130+		
19.973	20.005	L	6250	0	40	40	115		130+		TRC
20.274	20.320	R	5000	0	20	20	115		130+		
20.334										Chidda	
20.390	20.505	L COMP	1550	30	60	60	115		120		
20.505	21.334	L COMP	1950	30	0	0	115		130+		
21.334	21.605	L COMP	1550	30	60	60	115		120		
21.975										Salisbury	
21.840	22.074	R	2000	20	40	40	115		120		
22.311	23.250	L	1348	70	50	50	115		130		
31.170										Bolivar up t/o	
31.369	31.630	L	1600	40	50	50	115		125		TRC
32.615										Bolivar dn t/o	
34.120	34.580	R	800	80	60	60	100		104		TRC
35.339	35.544	R	1200	60	60	60	110		120		
37.589	37.746	R	1900	20	60	60	115		125		
38.617	39.239	L	642	80	40	40	90		93		
40.470	40.996	R	1214	80	80	80	115		128		

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Note in comments

TRC Curve data from track recordings



Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comments
Start	End				up	down					
43.192	43.590	R	603	80	60	60	90	78	90		
43.705	44.016	L	596	80	55	55	90	80	90		
44.234	44.354	R	1750	20	60	60	100		120		
44.371	44.491	L	1750	20	60	60	100		120		
44.535										Two Wells up t/o	
45.525	45.919	R	787	80	80	80	100		103		
46.460	46.581	R	2000	20	60	60	115		130		
46.624										Two Wells dn t/o	
46.641	46.762	L	2000	20	60	60	115		130		
48.079	48.172	L	12874	0	0	0	115		130		
53.520	53.730	L	1536	40	60	60	115		125		
54.619	55.066	R	985	70	100	100	110		112		
55.100	55.432	L	1227	60	60	60	110		120		
60.995	61.186	L	700	80	60	60	90		97		
61.200										Mallala up t/o	
61.600	61.874	L	758	80	60	60	90		101		
61.910										Mallala dn t/o	
61.948	62.431	L	700	80	80	80	90		97		
69.351	69.561	R	965	70	60	60	110		111		
69.630	69.813	L	950	70	50	50	110		110		
71.654	71.987	R	1609	40	60	60	115		125		
76.318	76.846	R COMP	800	80	60	60	100		104		
76.852										Long Plains up t/o	
76.908	77.314	R COMP	800	80	60	60	100		104		
78.367	78.638	L	1600	30	60	60	100		122		

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Note in comments

TRC Curve data from track recordings



Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comments
Start	End				up	down					
78.950										Long Plains dn t/o	
79.231	79.812	L	790	80	80	80	100		104		
84.172	84.441	L	2046	20	40	40	115		130		
85.837	86.224	R	1002	70	60	60	110		113		
87.110	87.456	L	1219	50	60	60	110		116		
87.966	88.323	L	996	70	80	80	110		113		
90.754	91.051	R	2083	20	60	60	115		130+		TRC
92.226	92.978	R	2500	80	80	80	115		130+		TRC
96.407	96.677	L	2025	20	60	60	115		130		
100.343										Bowmans up t/o	
100.390	101.156	L	1200	60	60	60	115		119		
102.400										Bowmans dn t/o	
102.535	102.879	R	1200	60	60	60	115		119		
103.941	104.071	R	2155	10	50	50	90		127		Some data from TRC
104.095	104.235	L	2290	10	60	60	90		130+		Some data from TRC
104.431	104.894	R	641	80	60	60	90		93		
105.707	106.057	L	960	80	90	90	110		114		
107.670	107.990	R	1499	40	60	60	115		124		
110.113	110.344	R	2067	30	60	60	115		130		
111.900	112.297	L	1206	80	60	60	115		128		
114.360	114.733	R	1183	80	60	60	115		127		
117.800	118.073	L	1576	50	80	80	115		130		
119.670	120.016	R	800	80	60	60	100		104		
120.090										Nantawarra up t/o	
120.777	121.138	L	800	80	60	60	100		104		

Curve Details: Dry Creek North to Crystal Brook

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Note in comments

TRC Curve data from track recordings



Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comments
Start	End				up	down					
122.122										Nantawarra dn t/o	
122.633	123.100	R	1010	80	60	60	100		115		
125.075	125.376	L	999	80	40	40	100		115		
127.410	127.720	R	1010	70	60	60	110		113		
129.976	130.350	L	1008	70	60	60	110		113		
131.172	131.380	R	1000	80	60	60	110		116		
131.810	131.979	L	1111	70	60	60	110		119		
137.532	137.667	R	1940	20	40	40	115		125		
140.209	140.674	L	792	80	80	80	100		104		
143.545										Snowtown up t/o	
144.840	145.602	R	800	80	60	60	100		104		
145.695										Snowtown t/o (end loop)	
146.430										Snowtown dn t/o (to sidings)	
146.542	146.974	L	878	80	60	60	100		109		
148.091	148.394	L	1650	40	60	60	115		130		
149.546	149.830	R	1042	80	80	80	110		119		TRC
155.600	155.848	R	973	80	60	60	110		115		
160.263	160.603	L	1190	80	60	60	115		127		
163.331	163.530	L	1200	80	50	50	110		127		TRC
165.457	165.610	R	1200	80	80	50	110		127		TRC
170.591	170.882	L	830	80	60	60	100		106		
170.927										Redhill up t/o	
171.943	172.308	R	800	80	60	60	100		104		
172.771	173.625	L	800	80	60	60	80		104		
173.177										Redhill dn t/o	Turnout in curve

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Note in comments

TRC Curve data from track recordings



Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comments
Start	End				up	down					
174.276	174.467	R	2083	20	40	40	115	130+		TRC	
175.707	176.472	R	1205	80	60	60	115	128			
177.375	177.644	R	1905	30	80	80	115	130			
177.669	178.060	L	1605	40	80	80	115	128			
184.341	184.830	L	1578	40	60	60	115	127			
186.736	186.975	L	2000	20	60	60	115	130			
187.148	188.400	R	1200	80	60	60	115	128			
190.165	190.344	L	1600	40	60	60	115	127			
191.593	191.973	R	800	80	60	60	100	104			
192.087									Rocky River up t/o		
193.020	193.240	R	3125	40	60	60	115	130+		TRC	
194.140									Rocky River dn t/o		
195.543	196.004	R	800	80	60	60	100	104			
196.030									T/o for Peterborough		
196.130	196.297	R	800	35	60	60	70	86		TRC	
196.297	197.185	L	400	90	80	80	70	76		End of curve at back of L11 turnout Crystal Bk	
22.885							35	35	Main line L11 t/o Crystal Brook	T/o speed governed by signalling	

Curve Details: Crystal Brook : Peterborough Connection

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Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comments
Start	End				Up	Dn					
196.030							35	35	Toe of t/o	T/o speed governed by signalling	
196.152	196.195	R	650	10	22	22	70	79	70	Some data from TRC	
196.314	196.633	L	400	40	80	80	70	105	64	Some data from TRC	
196.633	197.208	R	409	35	80	80	70	106	63	Some data from TRC	
23.710							35	35	Toe of t/o on B Hill Line	T/o speed governed by signalling	