



TURNOUT AND CROSSOVER DATA

Col. (1)	Properties of Switches		Closure Distance		Lead Curve		Gage Line Offsets				Properties of Frogs					Data for Crossovers											
	Ft. In.	Col. (3)	Ft. In.	Col. (4)	Col. (5)	Col. (6)	Col. (7)	Col. (8)	Col. (9)	Col. (10)	Col. (11)	Col. (12)	Col. (13)	Col. (14)	Col. (15)	Col. (16)	Col. (17)	Col. (18)	Col. (19)	Col. (20)	Col. (21)	Col. (22)	Col. (23)	Col. (24)	Col. (25)	Col. (26)	
Frog Number	Length of Switch Rail	Switch Angle	Actual Lead	Straight Closure Rail	Curved Closure Rail	Radius of Center Line	Degree of Curve	Radius of Center Line	Curve	Col. (9)	Col. (10)	Col. (11)	Col. (12)	Col. (13)	Col. (14)	Tangent adjacent to Switch Rail	Tangent adjacent to toe of Frog	Frog Angle	Overall Length	Toe Length	Heel Length	Toe Spread	Heel Spread	Heel Length	Overall Length	13'-0" Track Centers	For change of 1'-0" in Track Centers
5	11-0	2-39-34	42-6 1/2	28-0	28-4	17780	32-39-56	18-0	25-0	32-0	11 1/2	20 3/8	2-8 7/8	0.00	0.78	5	11-25-16	9-0	3-6 1/2	5-5 1/2	7 1/8	13 3/8	16-10 3/8	18-1 1/2	4-11 1/8	5-0 3/8	
6	11-0	2-39-34	47-6	32-9	33-0	25657	22-17-58	19-2 1/2	27-4 1/2	35-6 1/2	12 3/8	21 3/8	2-10 0.00	1.75	6	9-31-38	10-0	3-9	6-3	7	13	20-5 1/2	21-6 1/2	5-11 1/2	6-0 1/2		
7	16-6	1-46-22	62-1	40-10 1/2	41-1 1/2	36559	15-43-16	26-2 1/2	35-10 1/2	45-6 1/2	11 3/8	19 3/8	2-6 1/2	0.01	0.00	7	8-10-16	12-0	4-8 1/2	7-3 1/2	7 1/2	13	24-0 3/8	24-11 1/2	6-11 1/2	7-0 1/2	
8	16-6	1-46-22	68-0	46-5	46-7 1/2	48728	11-46-44	27-7 1/2	38-8 1/2	49-9 1/2	11 3/8	20 3/8	2-8 1/2	0.64	0.00	7	7-09-10	13-0	5-1	7-11	7 1/2	12 3/8	27-7 1/8	28-4 1/2	7-11 1/2	8-0 3/8	
9	16-6	1-46-22	72-3 1/2	49-5	49-7 1/2	61512	9-19-30	28-10 1/2	41-2 1/2	53-6 1/2	12 3/8	21 3/8	2-9 1/2	0.00	0.17	9	6-21-35	16-0	6-4 1/2	9-7 1/2	8	13 3/8	31-1 1/2	31-10 3/8	8-11 1/2	9-0 3/8	
10	16-6	1-46-22	78-9	55-10	56-0	77939	7-21-24	29-11 1/2	43-5 1/2	56-1 1/2	12 3/8	21 3/8	2-8 1/2	2.08	0.00	10	5-43-29	16-6	6-5	10-1	7 1/2	12 3/8	34-8 1/8	35-3 3/8	9-11 1/2	10-0 3/8	
11	22-0	1-19-46	91-10 1/2	62-10 1/2	63-0	92727	6-10-56	37-8 1/2	53-5	69-1 1/2	12 3/8	21 3/8	2-9 1/2	0.00	0.13	11	5-12-18	18-8 1/2	7-0	11-8 1/2	7 1/8	13 3/8	38-2 1/2	38-9 1/2	10-11 3/4	11-0 1/4	
12	22-0	1-19-46	96-8	66-10 1/2	67-0	110463	5-11-20	38-8 1/2	55-5	72-1 1/2	12 3/8	21 3/8	2-9 1/2	0.00	0.50	12	4-46-19	20-4	7-9 1/2	12-6 1/2	7 1/2	13 3/8	41-8 3/4	42-3 1/2	11-11 3/4	12-0 1/2	
14	22-0	1-19-46	107-0 3/4	76-5 1/2	76-6 3/4	158120	3-37-28	41-1 1/2	60-2 1/2	79-3 1/2	12 3/8	22 3/8	2-10 1/2	0.24	0.00	14	4-05-27	23-7	8-7 1/2	14-1 1/2	6 3/8	13 3/8	48-9 1/4	49-2 1/2	13-11 1/2	14-0 1/4	
15	30-0	0-58-30	126-4 1/2	86-11 1/2	87-0 3/4	172077	3-19-48	51-9	73-6	95-3	12 3/8	21 3/8	2-9 1/2	1.56	0.00	15	3-49-06	24-4 1/2	9-5	14-11 1/2	7	12 3/8	52-3 3/4	52-8 1/2	14-11 1/2	15-0 1/4	
16	30-0	0-58-30	131-4	91-11	92-0	200712	2-51-18	53-0	76-0	99-0	12 3/8	21 3/8	2-10 1/2	0.66	0.00	16	3-34-47	26-0	9-5	16-7	6 3/8	12 3/8	55-9 5/8	56-2 1/2	15-11 1/2	16-0 1/2	
18	30-0	0-58-30	140-11 1/2	99-11	100-0	257879	2-13-20	55-0	80-0	105-0	12 3/8	22 3/8	2-10 1/2	0.57	0.00	18	3-10-56	29-3	11-0 1/2	18-2 1/2	6 3/8	12 3/8	62-9 3/4	63-2 1/2	17-11 1/2	18-0 3/4	
20	30-0	0-58-30	151-11 1/2	110-11	111-0	328929	1-44-32	57-9	85-6	113-3	13 1/8	22 1/8	2-11 1/2	2.47	0.00	20	2-51-51	30-10 1/2	11-0 1/2	19-10	6 3/8	12 3/8	69-0	70-2	19-11 1/2	20-0 1/2	

Turnout and Crossover Data
for Straight Split Switches
Based on A.R.E.A.
Plan No. 910-41