



Common Crossing (All Standards)

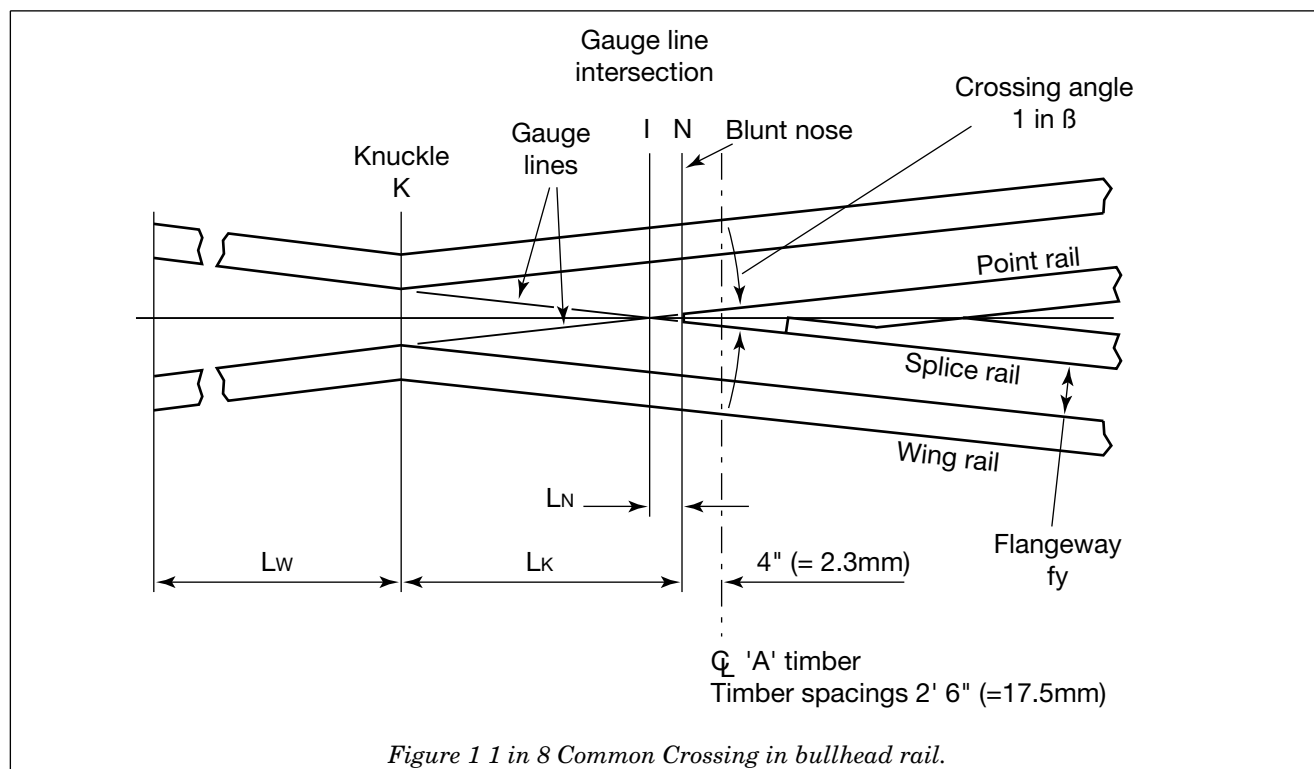


Figure 1 1 in 8 Common Crossing in bullhead rail.

The dimensions for common crossings from 1 in 3 to 1 in 8 are shown below.

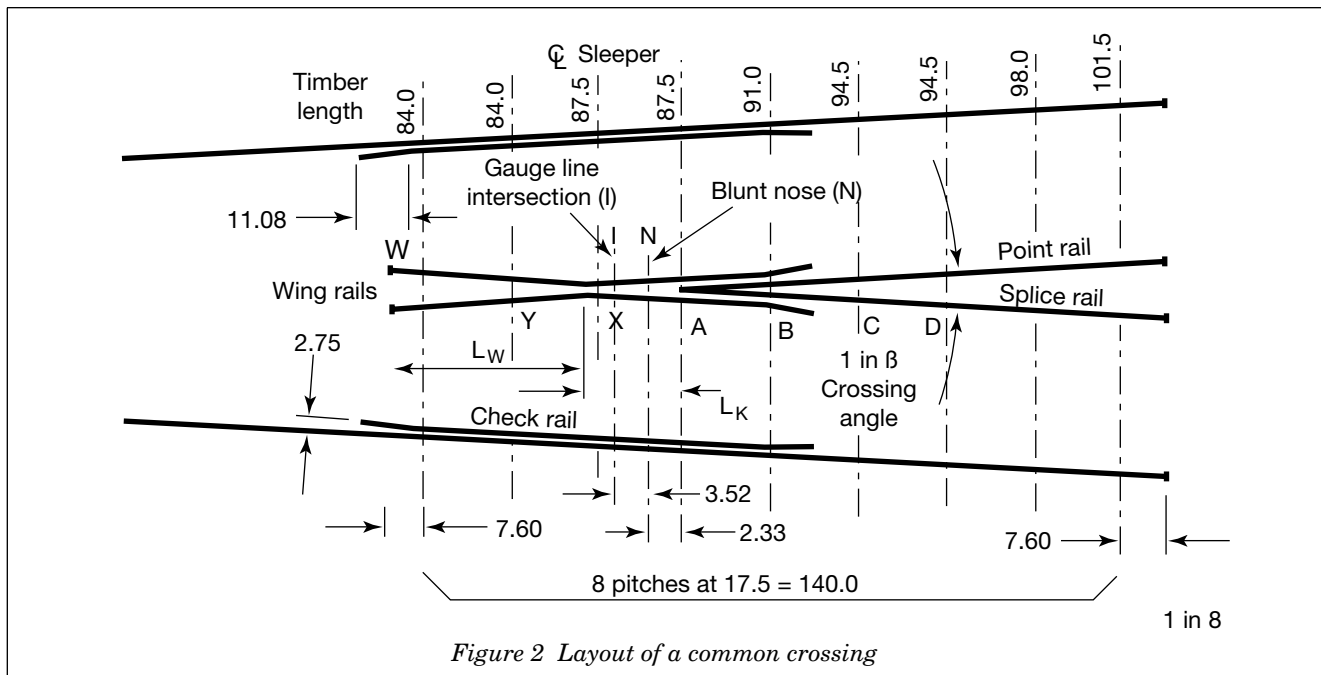
Crossing Angle 1 in β	Length of Wing Rail	Length of Check Rail	Length of Point Rail	Length of Splice Rail 1.6mm rail head	S7		OF		OC		Length of Splice Rail 2.35mm rail head
					LW	LK	LW	LK	LW	LK	
3	67.7	91.0	63.6	59.1	37.8	4.4	35.7	6.5	34.3	7.9	56.8
3 $\frac{1}{2}$	67.7	87.5	63.6	59.1	37.6	5.1	35.1	7.6	33.5	6.2	56.4
4	85.8	91.0	81.1	75.4	55.4	5.9	52.6	8.7	50.8	10.5	72.8
4 $\frac{1}{2}$	85.8	91.0	81.1	75.4	55.2	6.6	50.0	9.8	50.0	11.8	72.2
5	85.8	91.0	81.1	75.4	54.0	7.3	51.4	10.9	49.1	13.2	71.7
5 $\frac{1}{2}$	85.8	91.0	81.1	75.3	54.8	8.0	50.8	12.0	48.3	14.5	71.1
6	85.8	91.0	81.1	74.4	54.5	8.8	50.2	13.1	47.5	15.8	69.9
6 $\frac{1}{2}$	85.8	91.0	81.1	74.4	54.3	9.5	49.6	14.2	46.7	17.1	69.5
7	85.8	91.0	98.6	91.9	54.1	10.1	48.9	15.3	45.8	18.4	86.6
8	85.8	91.0	98.6	91.3	53.7	11.7	47.9	17.5	44.3	21.0	86.3

Notes: The distance from the knuckle K to the gauge line intersection I, $L_I = \text{flangeway } (f_y) \times \beta$

The distance from the gauge line intersection to the blunt nose N, $L_N = 0.44\beta$

The distance from the knuckle K to the blunt nose N, $L_K = L_I + L_N = (f_y + 0.44)\beta$

$S7 = 1.46\beta$ $OF = 2.2\beta$ $OC = 2.6\beta$



Notes: Wing rail = 85.8mm Check rail = 91.0mm
A is chair under nose, located 2.33mm ahead of c/l of sleeper.
B, C, and D are special chairs under point and splice rails.
X and Y are special chairs under wing rails.

Chairing of Bullhead Common Crossings

Crossing - 1 in						
3		X	A	B		
3½		X	A	B		
4		X	A	B		
4½		X	A	B	C	
5		X	A	B	C	
5½		X	A	B	C	
6		X	A	B	C	
6½	Y	X	A	B	C	
7	Y	X	A	B	C	D
8	Y	X	A	B	C	D

Baseplates for Flat Bottom Crossings

No flat bottom crossings less than 1 in 4

Crossing - 1 in						
4		X	A	B		
4½		X	A	B	C	
5		X	A	B	C	
5½		X	A	B	C	
6	Y	X	A	B	C	D
6½	Y	X	A	B	C	D
7	Y	X	A	B	C	D
8	Y	X	A	B	C	D