

CONRAIL SYSTEM - RAIL SECTION DIMENSIONS AND DRILLING

RAIL SECTION	FORMER R.R.	BASE	HEIGHT	HEAD WIDTH	RAIL DRILLING						BAR DRILLING <small>3 Dimensions = 4 Hole Bar 5 Dimensions = 6 Hole Bar</small>	STANDARD BOLT		PRESCRIBED BOLT		TIE PLATES C = Canted Flat Plates Not Labeled
					RAIL END TO 1 st BOLT HOLE	1 st BOLT HOLE TO 2 nd BOLT HOLE	2 nd BOLT HOLE TO 3 rd BOLT HOLE	3 rd BOLT HOLE TO BASE OF RAIL	BASE OF RAIL TO 4 th BOLT HOLE	DIAMETER OF BOLT HOLES		BOLT SIZE	NECK	BOLT SIZE	NECK	
													O-Oval E-Elliptical S-Square		O-Oval E-Elliptical S-Square	
80 L.V.	L.V.	5	4 3/4	2 1/2	1 29/32	4	4	1 13/16	1	4-4-4-4-4	7/8 x 4 1/2	E	7/8 x 5	E	7 x 8 1/2	
80 DY.	N.Y.C.	5	5 1/8	2 21/32	2.75	5.6	5.6	2 1/4	1	5.6-5.6-5.6-5.6-5.6	13/16 x 4 1/8	S	7/8 x 5	E	7 x 11	
"	C.N.J.	5	5 5/8	2 21/32	1 7/8	4	5	2 1/4	1	5-4-3 7/8-4-5	7/8 x 4 3/4	E	7/8 x 5	E	6 x 9 & 8 x 11	
80 A.S.C.E.	E.L.	5	5	2 1/2	2	4 3/4	4 3/4	2 3/16	1	4 3/4-4 3/4-4 1/8-4 3/4-4 3/4	15/16 x 4 1/4	O	7/8 x 5	E	6 x 9; 6 x 8 1/2; 7 x 10 1/4; 7 x 10 & 7 x 9	
"	N.H.	5	5	2 1/2	2 3/8	7	-	2 3/16	1 3/32	7-5-7	7/8 x 4 3/4	E	7/8 x 5	E	7 x 9 1/2 C	
85 DY.	N.Y.C.	5	5 1/4	2 11/16												
"	C.N.J.	5	5 1/4	2 11/16	1 7/8	4	5	2 1/4	1	5-4-3 7/8-4-5	7/8 x 4 3/4	E	7/8 x 5	E	6 x 9 & 8 x 11	
85 A.S.C.E.	P.R.R.	5 3/16	5 3/16	2 9/16	2 29/32	6	-	2 17/64	1 3/16	6-6-6	13/16 x 4 3/8	E	7/8 x 5	E	7 x 10 3/4	
"	P.R.R.	5 3/16	5 3/16	2 9/16	2 13/32	5	-	2 17/64	1 3/16	5-5-5	13/16 x 4 3/8	E	7/8 x 5	E	7 x 10 3/4	
85 P.R.R.	P.R.R.	5	5	2 9/16	1 29/32	5	-	2 1/16	1	5-4-5	13/16 x 4 1/2	E	7/8 x 5	E	7 x 10 3/4	
85 P.S.	P.R.R.	4 5/8	5 1/8	2 1/2	2 21/32	7 1/4	-	2 15/64	1	7 1/4-5 1/2-7 1/4	13/16 x 4 1/2	E	7/8 x 5	E	7 x 10 3/4	
"	P.R.R.	4 5/8	5 1/8	2 1/2	2 29/32	6	-	2 15/64	1	6-6-6	13/16 x 4 1/2	E	7/8 x 5	E	7 x 10 3/4	
"	P.R.R.	4 5/8	5 1/8	2 1/2	2 13/32	4 1/2	-	2 15/64	1	4 1/2-5-4 1/2	13/16 x 4 1/2	E	7/8 x 5	E	7 x 10 3/4	
"	P.R.R.	4 5/8	5 1/8	2 1/2	1 29/32	5	-	2 15/64	1	5-4-5	13/16 x 4 1/2	E	7/8 x 5	E	7 x 10 3/4	
90 L.V.	L.V.	5	5	2 3/4	1 29/32	4	4	2 1/16	1 1/16	4-4-4-4-4	7/8 x 4 1/8	E	7/8 x 5	E	7 x 8 1/2	
90 A.S.C.E.	L.V.	5 3/8	5 3/8	2 5/8	1 29/32	4	4	2 1/32	1 1/16	4-4-4-4-4	7/8 x 4 1/8	E	7/8 x 5	E		
"	E.L.	5 3/8	5 3/8	2 5/8	2	7	-	2 23/64	1 1/8	7-4 3/8-7	1 3/64 x 4 1/2	O	7/8 x 5	E	7 x 9	
"	C.N.J.	5 3/8	5 3/8	2 5/8	1 15/16	4	5	2 45/128	1 1/16	5-4-4-4-5	7/8 x 4 3/4	E	7/8 x 5	E	6 x 9 & 8 x 11	

All dimensions are in inches

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CONRAIL SYSTEM — RAIL SECTION DIMENSIONS AND DRILLING

RAIL SECTION	FORMER R.R.	BASE	HEIGHT	HEAD WIDTH	RAIL DRILLING						BAR DRILLING <small>3 Dimensions = 4 Hole Bar 5 Dimensions = 6 Hole Bar</small>	STANDARD BOLT		PRESCRIBED BOLT		TIE PLATES C = Conted Flat Plates Not Labeled		
					RAIL END TO 1 st BOLT HOLE	1 st BOLT HOLE TO 2 nd BOLT HOLE	2 nd BOLT HOLE TO 3 rd BOLT HOLE	3 rd BOLT HOLE TO BASE OF RAIL	BASE OF RAIL TO 4 th BOLT HOLE	DIAMETER OF BOLT HOLES		BOLT SIZE	NECK		BOLT SIZE		NECK	
													O-Oval	E-Elliptical			S-Square	O-Oval
90 A.S.C.E.	RDG.	5 ³ / ₈	5 ³ / ₈	2 ⁵ / ₈	1 ¹⁵ / ₁₆	4	5	2 ⁴⁵ / ₁₂₈	1 ¹ / ₁₆	5-4-4-4-5	7 ⁷ / ₈ x 5 ¹ / ₂	E	7 ⁷ / ₈ x 5 ¹ / ₂	E	7 x 10, 8 x 12 & 7 x 10 ¹ / ₂			
"	RDG.	5 ³ / ₈	5 ³ / ₈	2 ⁵ / ₈	2 ⁷ / ₁₆	7	-	2 ⁴⁵ / ₁₂₈	1 ³ / ₁₆	7-5-7	1 x 5 ¹ / ₂	E	1 x 5 ¹ / ₂	E	7 x 10, 8 x 12 & 7 x 10 ¹ / ₂			
90 DY	N.Y.C.	5	5 ¹ / ₂	2 ²¹ / ₃₂	2.75	5.6	5.6	2 ³ / ₈	1	5.6-5.6-5.6-5.6-5.6	1 ³ / ₁₆ x 4 ³ / ₄	EBS	7 ⁷ / ₈ x 5	E	7 x 11			
90 ARA-A	E.L.	5 ¹ / ₈	5 ⁵ / ₈	2 ⁹ / ₁₆	2	7	-	2 ³⁷ / ₆₄	1 ¹ / ₈	7-4 ³ / ₁₆ -7	1 ³ / ₆₄ x 4 ³ / ₄	O	1 x 5	E	7 x 9			
90 ARA-B	E.L.	4 ⁴⁹ / ₆₄	5 ¹⁷ / ₆₄	2 ⁹ / ₁₆	2	7	-	2 ¹¹ / ₃₂	1 ¹ / ₈	7-4 ¹ / ₈ -7	1 ³ / ₆₄ x 5 ¹ / ₄	O	1 x 5	E	7 x 9			
91 D.L.&W.	E.L.	5 ³ / ₈	5 ¹ / ₄	2 ⁵ / ₈	2	4 ³ / ₄	4 ³ / ₄	2 ¹⁷ / ₆₄	1 ¹ / ₈	4 ³ / ₄ -4 ³ / ₄ -4 ¹ / ₈ -4 ³ / ₄ -4 ³ / ₄	1 ⁵ / ₁₆ x 5 ¹ / ₈	O	1 x 5	E	7 x 10 ³ / ₈ & 7 x 9 ⁵ / ₈			
100 N.Y.N.H.&H.	N.H.	5 ¹ / ₂	6	2 ³ / ₄	2 ³ / ₈	7	-	2 ³⁹ / ₆₄	1 ³ / ₃₂	7-5-7	7 ⁷ / ₈ x 5 ¹ / ₄	E	7 ⁷ / ₈ x 5 ¹ / ₂	E	8 x 10 ¹ / ₂ C			
100 A.S.C.E.	P.R.R.	5 ³ / ₄	5 ³ / ₄	2 ³ / ₄	2 ¹³ / ₃₂	5	-	2 ⁶⁵ / ₁₂₈	1 ³ / ₁₆	5-5-5	1 x 4 ³ / ₄	E	1 x 5	E	7 x 10 ³ / ₄			
100 DY	N.Y.C.	5 ¹ / ₂	6	3	2.75	5.6	5.6	2 ⁵ / ₈	1 ¹ / ₈	5.6-5.6-5.6-5.6-5.6	1 ⁵ / ₁₆ x 5 ¹ / ₄	S	7 ⁷ / ₈ x 5 ¹ / ₂	E	7 x 11			
100 RDG.	RDG.	5 ³ / ₈	5 ⁵ / ₈	2 ²¹ / ₃₂	2 ⁷ / ₁₆	7	-	2 ⁶³ / ₁₂₈	1 ³ / ₁₆	7-5-7	1 x 5 ¹ / ₂	E	1 x 5 ¹ / ₂	E	7 x 10, 8 x 12 & 7 x 10 ¹ / ₂			
"	RDG.	5 ³ / ₈	5 ⁵ / ₈	2 ²¹ / ₃₂	1 ¹⁵ / ₁₆	4	5	2 ⁶³ / ₁₂₈	1 ¹ / ₁₆	5-4-4-4-5	1 x 5 ¹ / ₂	E	1 x 5 ¹ / ₂	E	7 x 10, 8 x 12 & 7 x 10 ¹ / ₂			
100 ARA-A	C.N.J.	5 ¹ / ₂	6	2 ³ / ₄	2 ¹ / ₁₆	6 ¹ / ₂	-	2 ³ / ₄	1 ¹ / ₄	6 ¹ / ₂ -5 ¹ / ₂ -6 ¹ / ₂	1 x 5 ¹ / ₄	E	1 x 5 ¹ / ₂	E	7 ¹ / ₂ x 10 ¹ / ₂ & 7 ³ / ₄ x 10 ¹ / ₂			
"	C.N.J.	5 ¹ / ₂	6	2 ³ / ₄	1 ¹⁵ / ₁₆	4	5	2 ³ / ₄	1 ¹ / ₄	5-4-4-4-5	1 x 5 ¹ / ₄	E	1 x 5 ¹ / ₂	E	7 ¹ / ₂ x 10 ¹ / ₂ & 7 ³ / ₄ x 10 ¹ / ₂			
"	L.V.	5 ¹ / ₂	6	2 ³ / ₄	1 ²⁹ / ₃₂	4	4	2 ³ / ₄	1 ³ / ₁₆	4-4-4-4-4	1 x 5 ¹ / ₁₆	E	1 x 5	E	8 x 10 ³ / ₈ C			
"	E.L.	5 ¹ / ₂	6	2 ³ / ₄	2	7	-	2 ³ / ₄	1 ¹ / ₈	7-4 ³ / ₁₆ -7	1 ³ / ₆₄ x 5	E	1 x 5	E	7 x 10 C			
100 ARA-B	RDG.	5 ⁹ / ₆₄	5 ⁴¹ / ₆₄	2 ²¹ / ₃₂	2 ⁷ / ₁₆	7	-	2 ⁶⁵ / ₁₂₈	1 ³ / ₁₆	7-5-7	1 x 5 ¹ / ₂	E	1 x 5 ¹ / ₂	E	7 x 10, 8 x 12 & 7 x 10 ¹ / ₂			
100 P.S.	P.R.R.	5	5 ¹¹ / ₁₆	2 ⁴³ / ₆₄	2 ²³ / ₃₂	7 ¹ / ₄	-	2 ³¹ / ₆₄	1 ³ / ₁₆	7 ¹ / ₄ -5 ¹ / ₂ -7 ¹ / ₄	1 x 5 ¹ / ₂	E	1 x 5 ¹ / ₂	E	7 x 10 ³ / ₄			
"	P.R.R.	5	5 ¹¹ / ₁₆	2 ⁴³ / ₆₄	2 ²³ / ₃₂	5 ¹ / ₂	-	2 ³¹ / ₆₄	1 ³ / ₁₆	5 ¹ / ₂ -5 ¹ / ₂ -5 ¹ / ₂	1 x 5 ¹ / ₂	E	1 x 5 ¹ / ₂	E	7 x 10 ³ / ₄			
"	P.R.R.	5	5 ¹¹ / ₁₆	2 ⁴³ / ₆₄	2 ⁷ / ₁₆	4 ¹ / ₂	-	2 ³¹ / ₆₄	1 ³ / ₁₆	4 ¹ / ₂ -5-4 ¹ / ₂	1 x 5 ¹ / ₂	E	1 x 5 ¹ / ₂	E	7 x 10 ³ / ₄			
100 P.R.R.	P.R.R.	5 ¹ / ₂	5 ¹ / ₂	2 ¹³ / ₁₆	1 ²⁹ / ₃₂	5	-	2 ⁹ / ₃₂	1 ³ / ₁₆	5-4-5	1 x 4 ³ / ₄	E	1 x 5	E	7 x 10 ³ / ₄			
100 R.E.	E.L.	5 ³ / ₈	6	2 ¹ / ₁₆	2	7	-			7-4 ³ / ₁₆ -7	1 ³ / ₆₄ x 4 ³ / ₄	E	1 x 5	E	7 x 10 C			

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					RAIL END TO 1 st BOLT HOLE	1 st BOLT HOLE TO 2 nd BOLT HOLE	2 nd BOLT HOLE TO 3 rd BOLT HOLE	3 rd BOLT HOLE TO BASE OF RAIL	BASE OF RAIL TO 4 th BOLT HOLE	DIAMETER OF BOLT HOLES		BOLT SIZE	NECK	BOLT SIZE	NECK	
													O - Oval E - Elliptical S - Square		O - Oval E - Elliptical S - Square	
101 D.L.&W.	E.L.	5 7/8	5 7/16	2 3/4	2	4 3/4	4 3/4	2 3/8	1 1/8	4 3/4 - 4 3/4 - 4 1/8 - 4 3/4 - 4 3/4	15/16 x 5 1/4	O	1 x 5 1/2	E	7 x 10 5/8 & 7 x 10 3/4	
105 D.L.&W.	E.L.	5 3/8	6	2 3/4	2	4 3/4	4 3/4	2 21/32	1 3/16	4 3/4 - 4 3/4 - 4 1/8 - 4 3/4 - 4 3/4	1 1/16 x 5 3/8	O	1 x 5 1/2	E	7 x 10 5/8 C; 7 x 10 3/4 C; 7 1/2 x 12 3/16 C; 7 1/2 x 13 C	
105 DY	N.Y.C.	5 1/2	6	3	2.75	5.6	5.6	2 3/8	1 1/16	5.6 - 5.6 - 5.6 - 5.6 - 5.6	15/16 x 5 1/4	E	7/8 x 5 1/2	E	7 1/2 x 13 C	
107 N.Y.N.H.&H.	N.H.	5 1/2	6 1/8	2 3/4	2 3/8	7	-	2 47/64	1 3/32	7 - 5 - 7	7/8 x 5 1/4	E	7/8 x 5 1/2	E	8 x 10 1/2 C	
110 L.V.	L.V.	5 1/2	6	2 7/8	1 29/32	4	4	2 3/4	1 3/16	4 - 4 - 4 - 4 - 4	1 x 5 1/16	E	1 x 5	E	8 x 9 1/2	
	E.L.	5 1/2	6 1/4	2 25/32	2	7	-	2 3/4	1 3/16	7 - 4 3/16 - 7	1 1/8 x 5 1/4	O	1 x 5 1/2	E	7 1/2 x 10 & 7 1/2 x 12 C	
"	E.L.	5 1/2	6 1/4	2 25/32	2	7	7	2 3/4	1 3/16	7 - 7 - 4 3/16 - 7 - 7	1 1/8 x 5 1/4	O	1 x 5 1/2	E	7 1/2 x 10 & 7 1/2 x 12 C	
"	E.L.	5 1/2	6 1/4	2 25/32	2 3/4	5 5/8	5 5/8	2 5/8	1 3/16	5 5/8 - 5 5/8 - 5 5/8 - 5 5/8 - 5 5/8	1 1/8 x 5 3/8	O	1 x 5 1/2	E	7 1/2 x 10 & 7 1/2 x 12 C	
112 R.E.	N.Y.C.	5 1/2	6 5/8	2 23/32	2 1/2	6 1/2	6 1/2	2 7/8	1 1/8	6 1/2 - 6 1/2 - 5 1/8 - 6 1/2 - 6 1/2	1 x 5 7/8	O	1 x 6	E	7 1/2 x 13 C	
"	E.L.	5 1/2	6 5/8	2 23/32	2 1/4	7	7	3 3/32	1 1/8	7 - 7 - 4 11/16 - 7 - 7	1 x 5 3/8	O	1 x 5 1/2	E	7 1/2 x 12 1/2 C; 7 3/4 x 13 & 7 1/2 x 13 C	
"	L.V.	5 1/2	6 5/8	2 23/32	2 1/2	6 1/2	6 1/2	2 7/8	1 1/8	6 1/2 - 6 1/2 - 5 1/8 - 6 1/2 - 6 1/2	1 x 6	O	1 x 6	E	7 3/4 x 14 C	
"	N.H.	5 1/2	6 5/8	2 23/32	2 1/2	6 1/2	6 1/2	2 7/8	1 1/8	6 1/2 - 6 1/2 - 5 1/8 - 6 1/2 - 6 1/2	1 x 5 3/4	O	1 x 6	E	7 3/4 x 11 C	
115 R.E.	N.H.	5 1/2	6 5/8	2 23/32	3 1/2	6	6	2 7/8	1 1/8	6 - 6 - 7 1/8 - 6 - 6	1 x 5 3/4	O	1 x 6	E	7 3/4 x 11 C	
"	E.L.	5 1/2	6 5/8	2 23/32	2 1/4	7	7	3 3/32	1 1/8	7 - 7 - 4 11/16 - 7 - 7	1 x 5 3/4	O	1 x 6	E	7 3/4 x 13 & 7 1/2 x 13 C	

All dimensions are in inches

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1-80
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RAIL SECTION	FORMER R.R.	BASE	HEIGHT	HEAD WIDTH	RAIL DRILLING					BAR DRILLING <small>3 Dimensions = 4 Hole Bar 5 Dimensions = 6 Hole Bar</small>	STANDARD BOLT		PRESCRIBED BOLT		TIE PLATES C = Canted Flat Plates Not Labeled	
					RAIL END TO 1 st BOLT HOLE	1 st BOLT HOLE TO 2 nd BOLT HOLE	2 nd BOLT HOLE TO 3 rd BOLT HOLE	3 rd BOLT HOLE TO 4 th BOLT HOLE	BASE OF RAIL TO 1 st BOLT HOLE		DIAMETER OF BOLT HOLES	BOLT SIZE	NECK	BOLT SIZE		NECK
													O-Oval E-Elliptical S-Square			O-Oval E-Elliptical S-Square
115 R.E.	N.Y.C.	5 1/2	6 5/8	2 23/32	2 1/2	6 1/2	6 1/2	2 7/8	1 1/8	6 1/2 - 6 1/2 - 5 1/8 - 6 1/2 - 6 1/2	1 x 5 1/4	O	1 x 5 1/2	E	7 1/2 x 13 C	
"	P.R.R.	5 1/2	6 5/8	2 23/32	3 1/2	6	6	2 7/8	1 1/8	6 - 6 - 7 1/8 - 6 - 6	1 x 5 1/2	E	1 x 5 1/2	E	7 3/4 x 14 C	
"	L.V.	5 1/2	6 5/8	2 23/32	3 1/2	6	6	2 7/8	1 1/8	6 - 6 - 7 1/8 - 6 - 6	1 x 5 3/4	O	1 x 6	E	7 3/4 x 14 C	
"	LANE	5 1/2	6 5/8	2 23/32	3 1/2	6	-	2 7/8	1 3/16	6 - 7 1/8 - 6	1 x 5 1/2	E	1 x 5 1/2	E		
115 DY	N.Y.C.	5 1/2	6 1/2	3	2 3/4	5 5/8	5 5/8	2 7/8	1 1/16	5 5/8 - 5 5/8 - 5 5/8 - 5 5/8 - 5 5/8	15/16 x 5 1/4	E	7/8 x 5 1/2	E	7 1/2 x 13 C	
118 D.L.-M	E.L.	5 3/8	6 1/2	2 7/8	2 1/2	6 1/2	6 1/2	2 27/32	1 1/8	6 1/2 - 6 1/2 - 5 1/8 - 6 1/2 - 6 1/2	1 x 5 3/8	O	1 x 5 1/2	E	7 x 10 5/8 ; 7 x 10 3/4 ; 7 1/2 x 12 3/16 & 7 1/2 x 13 C	
118 D.L.&W.	E.L.	5 3/8	6 1/2	2 7/8	2	4 3/4	4 3/4	2 27/32	1 3/16	4 3/4 - 4 3/4 - 4 1/8 - 4 3/4 - 4 3/4	1 1/16 x 5 3/8	O	1 x 5 1/2	E	7 x 10 5/8 ; 7 x 10 3/4 ; 7 1/2 x 12 3/16 & 7 1/2 x 12 7/16 C	
119 R.E.	P.C.	5 1/2	6 13/16	2 21/32	3 1/2	6	6	2 7/8	1 1/8	6 - 6 - 7 1/8 - 6 - 6	1 x 5 1/2	E	1 x 5 1/2	E	7 3/4 x 14 C	
125 P.S.	P.R.R.	5 1/2	6 1/2	3	2 21/32	7 1/2	-	2 3/4	1 5/16	7 1/2 - 5 1/2 - 7 1/2	1 1/8 x 6 1/4	E	1 1/8 x 6 1/4	E	7 x 10 3/4	
127 DY	N.Y.C.	6 1/4	7	3	2 3/4	5 5/8	5 5/8	3 1/8	1 1/8	5 5/8 - 5 5/8 - 5 5/8 - 5 5/8 - 5 5/8	15/16 x 5 1/2	O	7/8 x 5 1/2	E	7 1/2 x 13 C	
127 DY-M	N.Y.C.	6 1/4	7	3	3 1/2	6	6	3 1/8	1 1/8	6 - 6 - 7 1/8 - 6 - 6	1 x 5 3/8	O	1 x 5 1/2	E	7 1/2 x 13 C	
127 CWR	N.Y.C.	6 1/4	7	3	3 1/2	6	6	3 1/8	1 1/4	6 - 6 - 7 1/8 - 6 - 6	1 1/8 x 5 3/8	O	1 1/8 x 5 3/4	E	7 1/2 x 13 C	
130 P.S.	P.R.R.	5 1/2	6 5/8	3	2 23/32	6	7	2 3/4	1 5/16	7 - 6 - 5 1/2 - 6 - 7	1 1/8 x 6	E	1 1/8 x 6 1/4	E	7 3/4 x 14	
"	P.R.R.	5 1/2	6 5/8	3	2 23/32	7 1/2	-	2 3/4	1 5/16	7 1/2 - 5 1/2 - 7 1/2	1 1/8 x 6	E	1 1/8 x 6 1/4	E	7 3/4 x 14	
"	RDG.	5 1/2	6 5/8	3	2 7/16	7	-	2 3/4	1 5/16	7 - 5 - 7	1 1/8 x 6 1/4	E	1 1/8 x 6 1/4	E		
130 R.E.	N.H.	6	6 3/4	2 15/16	2 3/8	7	-	2 3/4	1 11/32	7 - 5 - 7	1 1/8 x 6 1/4	E	1 1/8 x 6 1/4	E	8 x 11 C	
"	RDG.	6	6 3/4	2 15/16	2 15/16	6	6	2 3/4	1 5/16	6 - 6 - 6 - 6 - 6	1 1/8 x 5 3/4	O	1 1/8 x 5 3/4	E	7 3/4 x 14 C	

All dimensions are in inches

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CONRAIL SYSTEM — RAIL SECTION DIMENSIONS AND DRILLING

RAIL SECTION	FORMER R.R.	BASE	HEIGHT	HEAD WIDTH	RAIL DRILLING						BAR DRILLING <small>3 Dimensions = 4 Hole Bar 5 Dimensions = 6 Hole Bar</small>	STANDARD BOLT		PRESCRIBED BOLT		TIE PLATES C = Canted Flat Plates Not Labeled
					RAIL END TO 1 st BOLT HOLE	1 st BOLT HOLE TO 2 nd BOLT HOLE	2 nd BOLT HOLE TO 3 rd BOLT HOLE	3 rd BOLT HOLE TO BASE OF RAIL	DIAMETER OF BOLT HOLES	BOLT SIZE		NECK	BOLT SIZE	NECK		
												O - Oval E - Elliptical S - Square		O - Oval E - Elliptical S - Square		
130 R.E.	RDG.	6	6 $\frac{3}{4}$	2 $\frac{15}{16}$	2 $\frac{15}{16}$	6	-	2 $\frac{3}{4}$	1 $\frac{5}{16}$	6-6-6	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	7 $\frac{3}{4}$ x 14 C	
"	C.N.J.	6	6 $\frac{3}{4}$	2 $\frac{15}{16}$	1 $\frac{15}{16}$	4	5	2 $\frac{3}{4}$	1 $\frac{5}{8}$	5-4-4-4-5	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	7 $\frac{1}{2}$ x 13 $\frac{3}{4}$ C	
"	E.L.	6	6 $\frac{3}{4}$	2 $\frac{15}{16}$	2	4 $\frac{3}{4}$	4 $\frac{3}{4}$	3 $\frac{1}{16}$	1 $\frac{3}{16}$	4 $\frac{3}{4}$ -4 $\frac{3}{4}$ -4 $\frac{3}{8}$ -4 $\frac{3}{4}$ -4 $\frac{3}{4}$	1 $\frac{1}{16}$ x 5 $\frac{3}{4}$	O	1 x 6	E	7 $\frac{1}{2}$ x 12, 7 $\frac{1}{2}$ x 12 $\frac{1}{2}$, 7 $\frac{3}{4}$ x 13 & 7 $\frac{3}{4}$ x 16	
"	E.L.	6	6 $\frac{3}{4}$	2 $\frac{15}{16}$	2	7	7	2 $\frac{3}{4}$	1 $\frac{3}{16}$	7-7-4 $\frac{3}{16}$ -7-7	1 $\frac{1}{16}$ x 6 $\frac{1}{8}$	O	1 x 6	E	7 $\frac{1}{2}$ x 12, 7 $\frac{1}{2}$ x 12 $\frac{1}{2}$, 7 $\frac{3}{4}$ x 13 & 7 $\frac{3}{4}$ x 16	
130 HF-A	RDG.	6	6 $\frac{27}{32}$	2 $\frac{55}{64}$	2 $\frac{15}{16}$	6	-	2 $\frac{3}{4}$	1 $\frac{5}{16}$	6-6-6	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	7 $\frac{3}{4}$ x 13 C	
130 HF-B	RDG.	6	6 $\frac{15}{16}$	2 $\frac{27}{32}$	2 $\frac{15}{16}$	6	-	2 $\frac{3}{4}$	1 $\frac{5}{16}$	6-6-6	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	7 $\frac{3}{4}$ x 13 C	
"	RDG.	6	6 $\frac{15}{16}$	2 $\frac{27}{32}$	2 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	2 $\frac{3}{4}$	1 $\frac{3}{16}$	6 $\frac{1}{2}$ -6 $\frac{1}{2}$ -5 $\frac{1}{8}$ -6 $\frac{1}{2}$ -6 $\frac{1}{2}$	1 x 6 $\frac{1}{4}$	O	1 x 6	E	7 $\frac{3}{4}$ x 13 C	
"	C.N.J.	6	6 $\frac{15}{16}$	2 $\frac{27}{32}$	2 $\frac{11}{16}$	6 $\frac{1}{2}$	7	2 $\frac{3}{4}$	1 $\frac{3}{8}$	7-6 $\frac{1}{2}$ -5 $\frac{1}{2}$ -6 $\frac{1}{2}$ -7	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	7 $\frac{3}{4}$ x 14 C	
131 R.E.	P.R.R.	6	7 $\frac{1}{8}$	3	2 $\frac{23}{32}$	6	7	3 $\frac{1}{4}$	1 $\frac{5}{16}$	7-6-5 $\frac{1}{2}$ -6-7	1 $\frac{1}{8}$ x 5 $\frac{1}{2}$	E	1 $\frac{1}{8}$ x 5 $\frac{3}{4}$	E	7 $\frac{3}{4}$ x 14 $\frac{3}{4}$ C	
"	N.H.	6	7 $\frac{1}{8}$	3	2 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{3}{32}$	1 $\frac{1}{8}$	6 $\frac{1}{2}$ -6 $\frac{1}{2}$ -5 $\frac{1}{8}$ -6 $\frac{1}{2}$ -6 $\frac{1}{2}$	1 x 6	E	1 x 6	E	7 $\frac{3}{4}$ x 12 C	
"	L.V.	6	7 $\frac{1}{8}$	3	2 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{3}{32}$	1 $\frac{1}{8}$	6 $\frac{1}{2}$ -6 $\frac{1}{2}$ -5 $\frac{1}{8}$ -6 $\frac{1}{2}$ -6 $\frac{1}{2}$	1 x 5 $\frac{3}{4}$	O	1 x 6	E	7 $\frac{1}{2}$ x 14 $\frac{3}{4}$ C	
"	C.N.J.	6	7 $\frac{1}{8}$	3	2 $\frac{11}{16}$	6 $\frac{1}{2}$	7	3 $\frac{3}{32}$	1 $\frac{3}{8}$	7-6 $\frac{1}{2}$ -5 $\frac{1}{2}$ -6 $\frac{1}{2}$ -7	1 $\frac{1}{8}$ x 5 $\frac{3}{4}$	E	1 $\frac{1}{8}$ x 5 $\frac{3}{4}$	E	7 $\frac{3}{4}$ x 13 C	
"	RDG.	6	7 $\frac{1}{8}$	3	2 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{3}{32}$	1 $\frac{5}{16}$	6 $\frac{1}{2}$ -6 $\frac{1}{2}$ -5 $\frac{1}{8}$ -6 $\frac{1}{2}$ -6 $\frac{1}{2}$	1 $\frac{1}{8}$ x 5 $\frac{3}{4}$	O	1 $\frac{1}{8}$ x 5 $\frac{3}{4}$	E	7 $\frac{3}{4}$ x 14 C	
"	E.L.	6	7 $\frac{1}{8}$	3	2 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{3}{32}$	1 $\frac{1}{8}$	6 $\frac{1}{2}$ -6 $\frac{1}{2}$ -5 $\frac{1}{8}$ -6 $\frac{1}{2}$ -6 $\frac{1}{2}$	1 x 5 $\frac{3}{4}$	O	1 x 6	E	7 $\frac{1}{2}$ x 12 $\frac{1}{2}$; 7 $\frac{1}{2}$ x 12 $\frac{13}{16}$; 7 $\frac{3}{4}$ x 13; 7 $\frac{1}{2}$ x 14 $\frac{3}{4}$ & 7 $\frac{3}{4}$ x 16	
"	E.L.	6	7 $\frac{1}{8}$	3	2 $\frac{3}{8}$	5	5	3 $\frac{9}{32}$	1 $\frac{1}{8}$	5-5-4 $\frac{7}{8}$ -5-5	1 x 5 $\frac{3}{4}$	O	1 x 6	E	7 $\frac{1}{2}$ x 12 $\frac{1}{2}$; 7 $\frac{1}{2}$ x 12 $\frac{13}{16}$; 7 $\frac{3}{4}$ x 13; 7 $\frac{1}{2}$ x 14 $\frac{3}{4}$ & 7 $\frac{3}{4}$ x 16	
"	E.L.	6	7 $\frac{1}{8}$	3	2 $\frac{1}{4}$	7	7	3 $\frac{1}{4}$	1 $\frac{1}{8}$	7-7-4 $\frac{3}{8}$ -7-7	1 x 5 $\frac{3}{4}$	O	1 x 6	E	7 $\frac{1}{2}$ x 12 $\frac{1}{2}$; 7 $\frac{1}{2}$ x 12 $\frac{13}{16}$; 7 $\frac{3}{4}$ x 13; 7 $\frac{1}{2}$ x 14 $\frac{3}{4}$ & 7 $\frac{3}{4}$ x 16	
132 R.E.	N.H.	6	7 $\frac{1}{8}$	3	3 $\frac{1}{2}$	6	6	3 $\frac{3}{32}$	1 $\frac{1}{8}$	6-6-7 $\frac{1}{8}$ -6-6	1 x 5 $\frac{3}{4}$	E	1 x 6	E	7 $\frac{3}{4}$ x 12 & 7 $\frac{3}{4}$ x 14	
"	E.L.	6	7 $\frac{1}{8}$	3	2 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{3}{32}$	1 $\frac{1}{8}$	6 $\frac{1}{2}$ -6 $\frac{1}{2}$ -5 $\frac{1}{8}$ -6 $\frac{1}{2}$ -6 $\frac{1}{2}$	1 x 5 $\frac{3}{4}$	O	1 x 6	E	7 $\frac{3}{4}$ x 13; 7 $\frac{1}{2}$ x 14 $\frac{3}{4}$ & 7 $\frac{3}{4}$ x 16	
"	E.L.	6	7 $\frac{1}{8}$	3	2 $\frac{1}{4}$	7	7	3 $\frac{1}{4}$	1 $\frac{1}{8}$	7-7-4 $\frac{11}{16}$ -7-7	1 x 5 $\frac{3}{4}$	O	1 x 6	E	7 $\frac{3}{4}$ x 13; 7 $\frac{1}{2}$ x 14 $\frac{3}{4}$ & 7 $\frac{3}{4}$ x 16	
"	CR	6	7 $\frac{1}{8}$	3	3 $\frac{1}{2}$	6	6	3 $\frac{3}{32}$	1 $\frac{5}{16}$	6-6-7 $\frac{1}{8}$ -6-6	1 $\frac{1}{8}$ x 5 $\frac{3}{4}$	E	1 $\frac{1}{8}$ x 5 $\frac{3}{4}$	E	7 $\frac{3}{4}$ x 14 $\frac{3}{4}$ C	

All dimensions are in inches

CONRAIL SYSTEM — RAIL SECTION DIMENSIONS AND DRILLING

RAIL SECTION	FORMER R.R.	BASE	HEIGHT	HEAD WIDTH	RAIL DRILLING						BAR DRILLING <small>3 Dimensions = 4 Hole Bar 5 Dimensions = 6 Hole Bar</small>	STANDARD BOLT		PRESCRIBED BOLT		TIE PLATES C = Canted Flat Plates Not Labeled
					RAIL END TO ↓ 1 st BOLT HOLE	↓ 1 st BOLT HOLE TO ↓ 2 nd BOLT HOLE	↓ 2 nd BOLT HOLE TO ↓ 3 rd BOLT HOLE	BASE OF RAIL TO ↓ OF BOLT HOLE	DIAMETER OF BOLT HOLES	BOLT SIZE		NECK	BOLT SIZE	NECK		
												O - Oval E - Elliptical S - Square		O - Oval E - Elliptical S - Square		
133 R.E.	P.R.R.	6	7 ¹ / ₁₆	3	2 ²³ / ₃₂	6	7	3	1 ⁵ / ₁₆	7-6-5 ¹ / ₂ -6-7	1 ¹ / ₈ x 5 ¹ / ₂	E	1 ¹ / ₈ x 5 ³ / ₄	E	7 ³ / ₄ x 14 ³ / ₄ C	
135 C.N.J.	C.N.J.	6	6 ¹ / ₂	3 ⁵ / ₃₂	1 ¹⁵ / ₁₆	4	5	2 ²⁷ / ₃₂	1 ¹ / ₄	5-4-4-4-5	1 x 5 ¹ / ₂	E	1 x 5 ¹ / ₂	E		
136 R.E.	C.R.	6	7 ⁵ / ₁₆	2 ¹⁵ / ₁₆	3 ¹ / ₂	6	6	3 ³ / ₃₂	1 ⁵ / ₁₆	6-6-7 ¹ / ₈ -6-6	1 ¹ / ₈ x 5 ³ / ₄	E	1 ¹ / ₈ x 5 ³ / ₄	E	7 ³ / ₄ x 14 ³ / ₄ C	
136LV.(OLD)	L.V.	6 ¹ / ₂	7	2 ¹⁵ / ₁₆	1 ²⁹ / ₃₂	4	4	3 ¹ / ₁₆	1 ⁵ / ₁₆	4-4-4-4-4	1 ¹ / ₈ x 5 ³ / ₈	E	1 ¹ / ₈ x 5 ³ / ₄	E	8 x 13 ¹ / ₂ & 7 ³ / ₄ x 15 C	
136LV.	L.V.	6 ¹ / ₂	7	2 ¹⁵ / ₁₆	2 ³ / ₄	6 ³ / ₄	6 ³ / ₄	3 ¹ / ₁₆	1 ⁵ / ₁₆	6 ³ / ₄ -6 ³ / ₄ -5 ⁵ / ₈ -6 ³ / ₄ -6 ³ / ₄	1 ¹ / ₈ x 6 ¹ / ₄	E	1 ¹ / ₈ x 6 ¹ / ₄	E	8 x 13 ¹ / ₂ & 7 ³ / ₄ x 15 C	
136LV.(NEW)	L.V.	6 ¹ / ₂	7	2 ¹⁵ / ₁₆	1 ²⁹ / ₃₂	4	4	3 ¹ / ₁₆	1 ⁵ / ₁₆	4-4-4-4-4	1 ¹ / ₈ x 6 ¹ / ₄	E	1 ¹ / ₈ x 6 ¹ / ₄	E	7 ³ / ₄ x 15 C	
136LV-M	L.V.	6 ¹ / ₂	7	2 ¹⁵ / ₁₆	2 ³ / ₄	6 ³ / ₄	6 ³ / ₄	3 ¹ / ₁₆	1 ⁵ / ₁₆	6 ³ / ₄ -6 ³ / ₄ -5 ⁵ / ₈ -6 ³ / ₄ -6 ³ / ₄	1 ¹ / ₈ x 5 ³ / ₄	E	1 ¹ / ₈ x 5 ³ / ₄	E	8 x 13 ¹ / ₂ & 7 ³ / ₄ x 15 C	
136LV-H	L.V.	6 ¹ / ₂	7 ³ / ₈	2 ¹⁵ / ₁₆	2 ³ / ₄	6 ³ / ₄	6 ³ / ₄	3 ¹ / ₄	1 ⁵ / ₁₆	6 ³ / ₄ -6 ³ / ₄ -5 ⁵ / ₈ -6 ³ / ₄ -6 ³ / ₄	1 ¹ / ₈ x 6 ¹ / ₄	E	1 ¹ / ₈ x 6 ¹ / ₄	E	8 x 13 ¹ / ₂ & 7 ³ / ₄ x 15 C	
136 N.Y.C.	N.Y.C.	6 ¹ / ₄	7 ⁹ / ₃₂	2 ¹⁵ / ₁₆	3 ¹ / ₂	6	6	3 ¹ / ₈	1 ¹ / ₄	6-6-7 ¹ / ₈ -6-6	1 ¹ / ₈ x 5 ³ / ₈	E	1 ¹ / ₈ x 5 ³ / ₄	E	7 ¹ / ₂ x 13 C	
140 R.E.	N.H.	6	7 ⁵ / ₁₆	3	3 ¹ / ₂	6	6	3 ³ / ₃₂	1 ³ / ₁₆	6-6-7 ¹ / ₈ -6-6	1 ¹ / ₈ x 6 ¹ / ₄	E	1 ¹ / ₈ x 6 ¹ / ₄	E	7 ³ / ₄ x 12 & 7 ³ / ₄ x 14 C	
140 R.E.	N.H.	6	7 ⁵ / ₁₆	3	3 ¹ / ₂	6	6	3 ³ / ₃₂	1 ¹ / ₈	6-6-7 ¹ / ₈ -6-6	1 x 5 ³ / ₄	E	1 x 6	E	7 ³ / ₄ x 12 & 7 ³ / ₄ x 14 C	
"	C.N.J.	6	7 ⁵ / ₁₆	3	2 ¹ / ₂	6 ¹ / ₂	6 ¹ / ₂	3 ³ / ₃₂	1 ³ / ₈	6 ¹ / ₂ -6 ¹ / ₂ -5 ¹ / ₈ -6 ¹ / ₂ -6 ¹ / ₂	1 ¹ / ₈ x 5 ³ / ₄	E	1 ¹ / ₈ x 5 ³ / ₄	E		
"	LB&N.E.	6	7 ⁵ / ₁₆	3	3 ¹ / ₂	6	-	3 ³ / ₃₂	1 ⁵ / ₁₆	6-7 ¹ / ₈ -6	1 ¹ / ₈ x 5 ³ / ₄	E	1 ¹ / ₈ x 5 ³ / ₄	E		
"	RDG.	6	7 ⁵ / ₁₆	3	2 ¹ / ₂	6 ¹ / ₂	6 ¹ / ₂	3 ³ / ₃₂	1 ⁵ / ₁₆	6 ¹ / ₂ -6 ¹ / ₂ -5 ¹ / ₈ -6 ¹ / ₂ -6 ¹ / ₂	1 ¹ / ₈ x 5 ³ / ₄	O	1 ¹ / ₈ x 5 ³ / ₄	E	7 ³ / ₄ x 14 C	
"	P.C.	6	7 ⁵ / ₁₆	3	2 ²³ / ₃₂	6	7	3	1 ⁵ / ₁₆	7-6-5 ¹ / ₂ -6-7	1 ¹ / ₈ x 5 ¹ / ₂	E	1 ¹ / ₈ x 5 ³ / ₄	E	7 ³ / ₄ x 14 ³ / ₄ C	
"	EL.	6	7 ⁵ / ₁₆	3	2 ¹ / ₄	7	7	3 ¹ / ₄	1 ¹ / ₈	7-7-4 ¹¹ / ₁₆ -7-7	1 x 6	O	1 x 6	E	7 ³ / ₄ x 13 & 7 ¹ / ₂ x 14 ³ / ₄ C	

CONRAIL SYSTEM — RAIL SECTION DIMENSIONS AND DRILLING

All dimensions are in inches

RAIL SECTION	FORMER R.R.	BASE	HEIGHT	HEAD WIDTH	RAIL DRILLING						BAR DRILLING <small>3 Dimensions - 4 Hole Bar 5 Dimensions - 6 Hole Bar</small>	STANDARD BOLT		PRESCRIBED BOLT		TIE PLATES C = Conted Flat Plates Not Labeled
					RAIL END TO 1 st BOLT HOLE	1 st BOLT HOLE TO 2 nd BOLT HOLE	2 nd BOLT HOLE TO 3 rd BOLT HOLE	3 rd BOLT HOLE TO BASE OF RAIL	BASE OF RAIL TO 4 th BOLT HOLE	DIAMETER OF BOLT HOLES		BOLT SIZE	NECK	BOLT SIZE	NECK	
													O - Oval E - Elliptical S - Square		O - Oval E - Elliptical S - Square	
152 PS.	P.R.R.	6 $\frac{3}{4}$	8	3	2 $\frac{23}{32}$	6	7	3 $\frac{3}{4}$	1 $\frac{5}{16}$	7-6-5 $\frac{1}{2}$ -6-7	1 $\frac{1}{8}$ x 5 $\frac{1}{2}$	E	1 $\frac{1}{8}$ x 5 $\frac{3}{4}$	E	7 $\frac{3}{4}$ x 15 $\frac{1}{2}$ C	
155 PS.	P.R.R.	6 $\frac{3}{4}$	8	3	2 $\frac{23}{32}$	6	7	3 $\frac{3}{8}$	1 $\frac{5}{16}$	7-6-5 $\frac{1}{2}$ -6-7	1 $\frac{1}{8}$ x 5 $\frac{1}{2}$	E	1 $\frac{1}{8}$ x 5 $\frac{3}{4}$	E	7 $\frac{3}{4}$ x 15 $\frac{1}{2}$ C	
— GIRDER RAIL —																
128		6	7		2 $\frac{1}{2}$	4	4	2 $\frac{3}{4}$	1 $\frac{1}{8}$	4-4-5-4-4	1 x 5 $\frac{1}{2}$		1 x 5 $\frac{1}{2}$	E		
149		6	7		2 $\frac{1}{2}$	4	4	2 $\frac{3}{4}$	1 $\frac{1}{8}$	4-4-5-4-4	1 x 5 $\frac{1}{2}$		1 x 5 $\frac{1}{2}$	E		
159	P.R.R.	5 $\frac{3}{4}$	9		2 $\frac{3}{4}$	7 $\frac{1}{2}$	—	3 $\frac{3}{4}$	1 $\frac{3}{8}$	7 $\frac{1}{2}$ - 5 $\frac{1}{2}$ - 7 $\frac{1}{2}$	1 $\frac{1}{4}$ x 6 $\frac{1}{8}$	E	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	10 $\frac{3}{4}$ x 28	
174	P.R.R.	5 $\frac{3}{4}$	9		2 $\frac{3}{4}$	7 $\frac{1}{2}$	—	3 $\frac{3}{4}$	1 $\frac{3}{8}$	7 $\frac{1}{2}$ - 5 $\frac{1}{2}$ - 7 $\frac{1}{2}$	1 $\frac{1}{4}$ x 6 $\frac{1}{8}$	E	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$	E	10 $\frac{3}{4}$ x 28	

NOTES

- 1 - When ordering bolts use the diameter and length indicated in the "Prescribed Bolt" column.
- 2 - The nominal diameter of a bolt is the diameter over the threaded portion not the body diameter.
- 3 - Catalog references for Prescribed Bolts are as follows:

1 x 5 - 01-226347	1 x 6 - 01-227790
1 x 5 $\frac{1}{2}$ - 01-227055	1 $\frac{1}{8}$ x 5 $\frac{3}{4}$ - 01-231537
1 x 5 - 01-227782	1 $\frac{1}{8}$ x 6 $\frac{1}{4}$ - 01-227840
1 x 5 $\frac{1}{2}$ - 01-229101	

91
80
79
79
V.