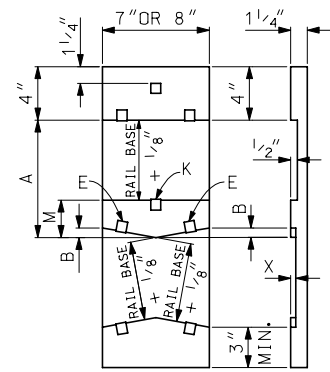
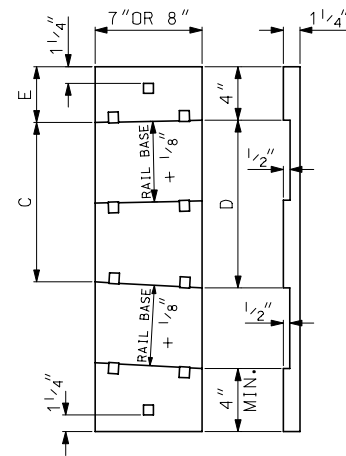


TIE SPACING FOR TURNOUT PLATES								
FROG No.	R	S	T	U	V	W	X	Y
7	19 1/2"	19 1/2"	19 1/2"	19 1/2"	19 1/2"	19 1/2"	19 1/2"	19 1/2"
8	20"	19 1/2"	19 1/2"	19 1/2"	19 1/2"	20"	20"	20"
9	19 1/2"	19 1/2"	20"	20 1/2"	20 1/2"	21"	21 1/2"	21 1/2"
10	21 1/2"	22"	22"	23"	23"	23"	23"	23"



PLATES No. 4, 5 AND 6

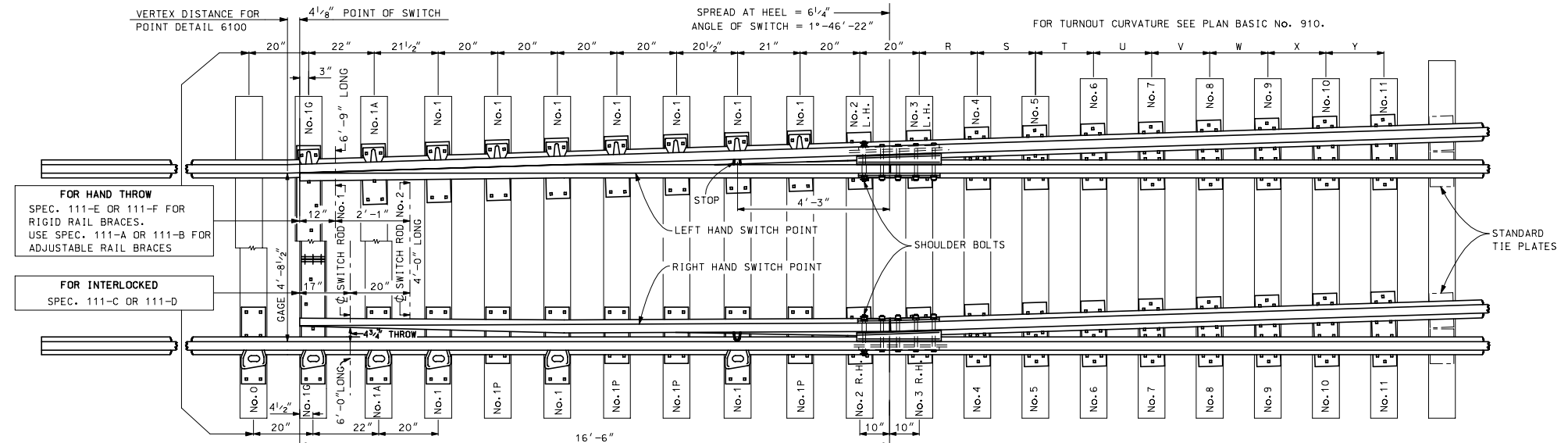


PLATES No. 7 TO 11 INCL.

OMIT SPIKE HOLE "K" WHEN DISTANCE "M" IS LESS THAN 1 1/8"
 OMIT SPIKE HOLES "E" WHEN DISTANCE "M" IS LESS THAN 5/8"
 FOR SIZE AND LOCATION OF SPIKE HOLES SEE SECTION 7.3, PLAN BASIC No.100.

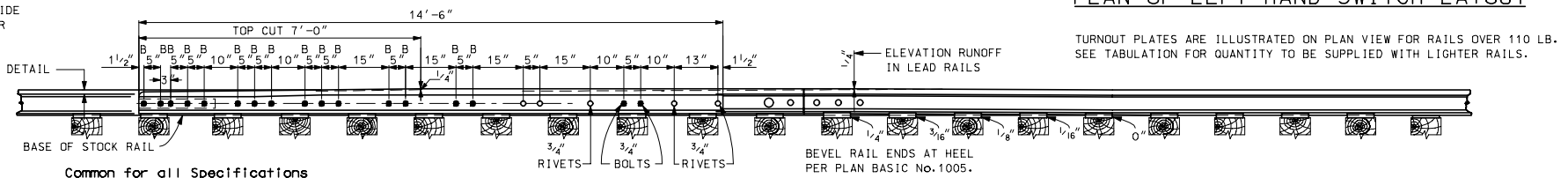
DETAIL IN TABLE BASED ON PLATES 8" WIDE

PLATE No.	TURNOUT PLATES No.7 T.O.				TURNOUT PLATES No.8, No.9 & No.10 T.O.			TURNOUT PLATES No.7 T.O.			TURNOUT PLATES No.8, No.9 & No.10 T.O.			
	RAILS HEAVIER THAN 110 LB.		RAILS 110 LB. TO 90 LB.		A	B	X	RAILS HEAVIER THAN 110 LB.		RAILS 110 LB. TO 90 LB.		A	B	X
	WIDTH	DETAIL No.	WIDTH	DETAIL No.				WIDTH	DETAIL No.	WIDTH	DETAIL No.			
4	8"	7350	7"	6350	7 1/4"	1 1/8"	5 1/16"	8"	7150	7"	6150	7 3/16"	5 3/32"	5 1/16"
5	8"	7351	7"	6351	8"	1 1/8"	3 3/8"	8"	7151	7"	6151	7 29/32"	5 3/32"	3 3/8"
6	8"	7352	7"	6352	8 15/16"	3 1/16"	7 1/16"	8"	7152	7"	6152	8 21/32"	3 1/16"	7 1/16"
					C	D	E					C	D	E
7	8"	7353	7"	6353	9 11/16"	10 1/16"	4 3/16"	8"	7153	7"	6153	9 1/32"	9 23/32"	4 3/16"
8	8"	7354	7"	6354	10 11/16"	11 1/8"	4 3/16"	8"	7154	7"	6154	10 9/32"	10 21/32"	4 3/16"
9	8"	7355	7"	6355	11 3/4"	12 1/4"	4 1/4"	8"	7155	7"	6155	11 1/4"	11 5/8"	4 3/16"
10	8"	7356	7"	6356	13"	13 1/2"	4 1/4"	8"	7156			12 5/16"	12 11/16"	4 3/16"
11	8"	7357	7"	6357	14 1/4"	14 3/4"	4 1/4"	8"	7157			13 13/32"	13 27/32"	4 7/32"



PLAN OF LEFT HAND SWITCH LAYOUT

ROUND STOCK RAIL SIDE OF SWITCH POINT PER PLAN BASIC No.221.



ELEVATION OF SWITCH POINT

TURNOUT PLATES ARE ILLUSTRATED ON PLAN VIEW FOR RAILS OVER 110 LB. SEE TABULATION FOR QUANTITY TO BE SUPPLIED WITH LIGHTER RAILS.

BILL OF MATERIAL
 16'-6" Straight Split Switch

Description		Common for all Specifications	
Quantity	Detail Numbers	For Rails Heavier than 110 lb.	For Rails 110 lb. to 90 lb., incl.
2	Double reinforced switch points complete with details:		
	For planing	6100	6100
	For side jaw clips	3012	2012
	For stops	2024	1024
4	Shoulder heel plates 1 Pr. No. 2 R.H. and L.H.	7040	6040
	1 Pr. No. 3 R.H. and L.H.	7049	6049
	Turnout plates per table (2 each) For 8, 9, and 10	7150 to 7157	6150 to 6157
	Turnouts	7350 to 7357	6350 to 6357
	Turnout plates per table (2 each) (Furnished only when No. 7 Turnouts are specified)	7357 incl.	6357 incl.
2	Heel joint assemblies complete	2125	2125
HAND-THROW INSULATED SWITCH WITH ADJUSTABLE RAIL BRACES			
INTERLOCKED INSULATED SWITCH WITH ADJUSTABLE RAIL BRACES			
1	Insulated switch rod No. 1 Spec. 111A and 111B	2 1/2" x 1 1/4" 6010	2 1/2" x 1" 2010
1	Insulated switch rod No. 1 with basket adjustment Spec. 111C and 111D	2 1/2" x 1 1/4" 7017	2 1/2" x 1" 7019
1	Insulated switch rod No. 2 (All Spec.)	2 1/2" x 1 1/4" 6011	2 1/2" x 1" 2011
12	Insulation applied to rods	3001	3001
1	Adjustable rail braces per Plan Basic No. 224		
1	Gage plate No. 1G for use with adjustable rail braces	8" wide 7026	7" wide 6026
1	Insulation applied to gage plate	4103	3103
10	Solid base slide plates for use with adjustable rail braces		
	2 No. 0, 2 No. 1A and 6 No. 1	8" wide 7020	7" wide 6020
8	Shoulder slide plates with risers No. 1P	8" wide 7021	7" wide 6021
HAND-THROW NON-INSULATED SWITCH WITH RIGID BRACES			
2	None-Insulated switch rods No. 1	2 1/2" x 1 1/4" 6010	2 1/2" x 1" 2010
	1 No. 2	2 1/2" x 1 1/4" 6011	2 1/2" x 1" 2011
18	Rail braces 1/2" thick	7" wide 6023	7" wide 6023
1	Gage plate No. 1G for use with rigid braces	8" wide 4127	7" wide 3127
16	Solid base slide plates 2 No. 1A and 14 No. 1	8" wide 4020R	7" wide 3020R

ADDITIONAL EQUIPMENT TO BE FURNISHED WHEN SPECIFIED:
 Gage plates for spec. 111A, 111B, 111C, and 111D, location to be specified; number of slide plates reduced accordingly
 Insulation applied to gage plates (All Spec.)
 Insulation applied to switch rods Spec. 111E and 111F

8" wide	7026	7" wide	6026
	4103		3103
	3001		3001

NOTES

- BILL OF MATERIAL. This plan illustrates and includes in the following bills of material several designs of split switch layouts, and purchaser shall state which bill of material specification is wanted. Turnout plates will be furnished for No.8, No.9, or No.10 Turnouts unless No.7 Turnout is specified.
 Insulated hand-throw split switch with adjustable rail braces preferred for heavy duty.
 For rails heavier than 110 lb. Spec. 111A
 For rails 110 lb. to 90 lb., incl. Spec. 111B
 Insulated interlocked split switch with adjustable rail braces preferred for heavy duty.
 For rails heavier than 110 lb. Spec. 111C
 For rails 110 lb. to 90 lb., incl. Spec. 111D
 Non-insulated hand-throw split switch with rigid rail braces for lighter traffic.
 For rails heavier than 110 lb. Spec. 111E
 For rails 110 lb. to 90 lb., incl. Spec. 111F
 RAIL AND JOINT BARS. Purchaser shall specify weight and designation of rail section and joint drilling and shall supply complete details of joint bars.
- ALTERNATES:
 (a) Any details of fittings that will apply per Plans Basic No.221, 222, 223, and 224.
 (b) Point planing per Detail 4000 (Switch angle 1° 44' 11") Vertex distance = 8 1/4"
 (c) Point planing per Detail 5100 (Switch angle 1° 48' 32") Vertex distance = 0" for undercut stock rail.
 (d) Switch rails furnished with manganese steel tips per Plan Basic No.220.
 (e) Omit insulation - Spec. 111A and 111B.
 (f) For spec. 111A, 111C, or 111E omit turnout plates 7 to 11 incl. and furnish 24 Hook twin tie plates per Plan Basic No. 241 as follows:
 8 L-27, 8 LR-27, 4 L-31, and 4 LR-31.
 (g) For spec. 111B, 111D, or 111F omit turnout plates 7, 8, and 9 and furnish 16 Hook twin tie plates per Plan Basic No. 241 as follows: 8 L-27 and 8 LR-27.
- SPRING SWITCH DETAILS - See Plan Basic No.181 for revisions in switch points, rods, plates, and Bills of Material recommended for spring switch operation.
- SPECIFICATIONS - See Basic Plan No.100

AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION

16'-6" STRAIGHT SPLIT SWITCH WITH UNIFORM RISERS

PLAN NO. 111-03