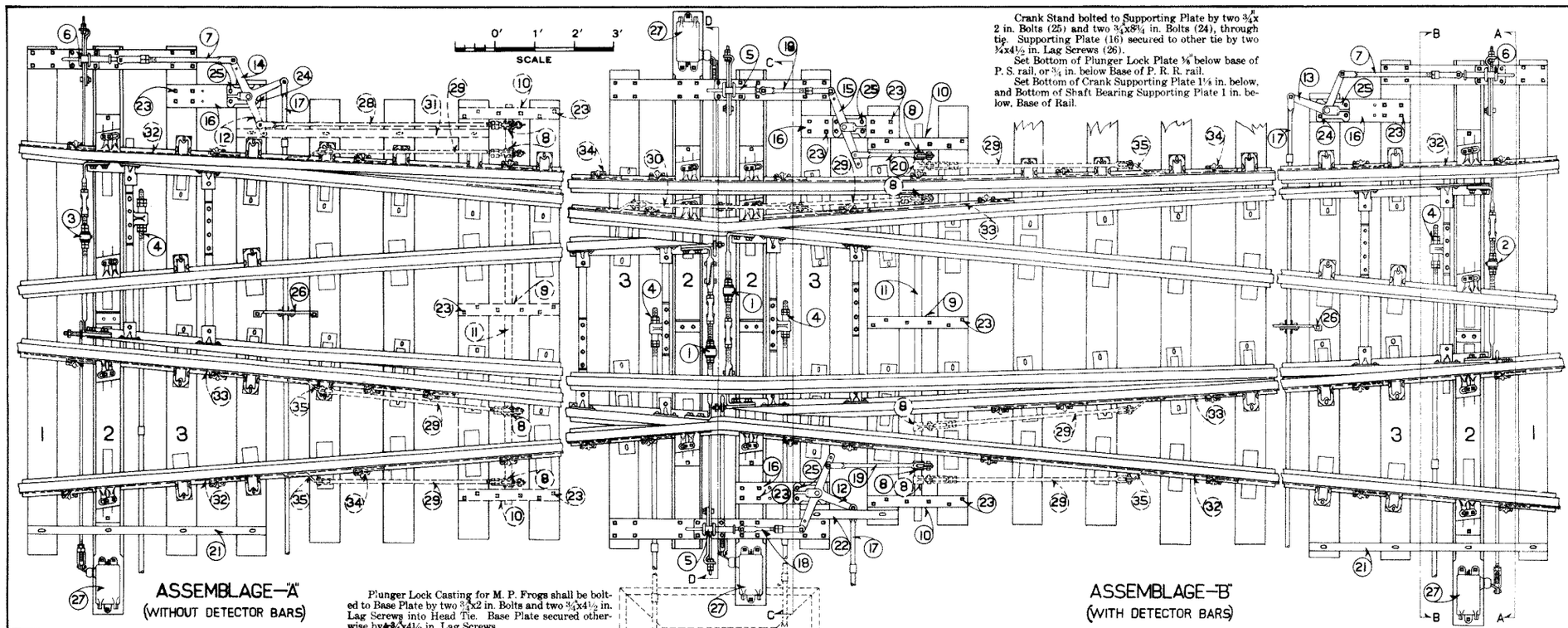
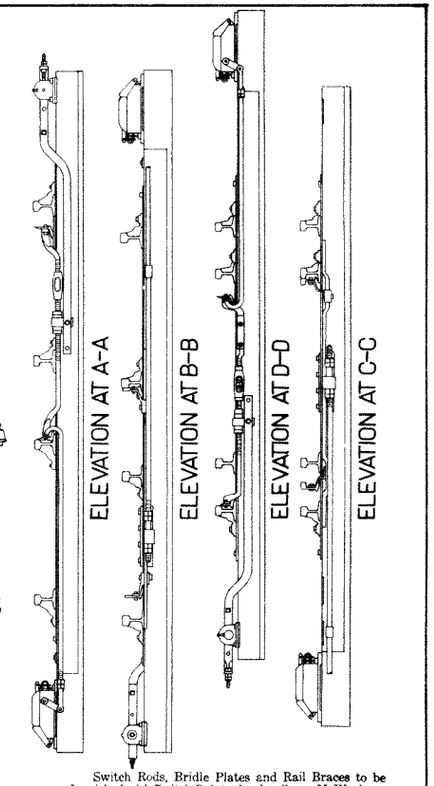


Crank Stand bolted to Supporting Plate by two ¾" x 2 in. Bolts (25) and two ⅞x8¾ in. Bolts (24), through tie. Supporting Plate (16) secured to other tie by two ¾x4½ in. Lag Screws (26).

Set Bottom of Plunger Lock Plate ⅛" below base of P. S. rail, or ⅜ in. below Base of P. R. R. rail.

Set Bottom of Crank Supporting Plate 1¼ in. below, and Bottom of Shaft Bearing Supporting Plate 1 in. below, Base of Rail.



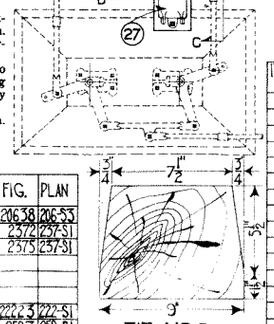
ASSEMBLAGE—"A"
(WITHOUT DETECTOR BARS)

ITEM NO.	REQD.	NAME	FIG.	PLAN
1	2	FRONT & LOCK RODS L.H. COMP. FOR M.P. FROGS	20635	210-S1
2	1	" " " ROD R.H. " " SINGLE SLIP SWS.	20637	210-S2
3	1	" " " L.H. " " " "	21042	210-S2
4	4	OPERATING RODS COMP. FOR M.P. FROGS & SINGLE SLIP SWS.	2153	215-S1
5	2	PLUNGER LOCKS COMPLETE FOR M.P. FROGS	2275	227-S1
6	2	" " " " SLIP SWITCHES	2274	227-S1
7	2	ADJUSTABLE LINKS	20637	206-S3
8	2	STRAIGHT ARMS COMP. FOR ROCKING SHAFT	20349	203-S2
9	1	LOW SHAFT BEARING COMPLETE	20365	203-S3
10	2	" " " "	20364	203-S3
11	1	ROCKING SHAFT 10'-0"	20356	203-S2
12	1	THREE ARM CRANK & STAND COMPLETE	20411	204-S1
13	1	RIGHT ANGLE CRANK & STAND COMPLETE	20414	204-S1
14	1	" " " " " "	20413	204-S1
15	1	STRAIGHT ARM COMPENSATOR & STAND COMPLETE	20415	204-S1
16	4	SUPPORTING PLATES	20417	204-S1
17	3	SOLID WROUGHT JAWS	2066	206-S1
18	2	ADJUSTABLE LINKS	20613	206-S1
19	1	SOLID LINK	20635	206-S3
20	1	SOLID LINK	20638	206-S3
21	2	TIE STRAPS	2372	237-S1
22	1	" STRAP	2375	237-S1
23	32	¾x4½ LAG SCREWS		
24	6	⅞x8¾ SQ. HD. BOLTS EACH WITH PL. WASHER & HEX. NUT		
25	10	¾x2" " " " " HEX. NUT		
26	2	ONE-WAY TRANSVERSE PIPE CARRIERS COMP.	22223	222-S1
27	4	SWITCH CIRCUIT CONTROLLERS COMPLETE	2597	259-S1

Plunger Lock Casting for M. P. Frogs shall be bolted to Base Plate by two ¾x2 in. Bolts and two ¾x4½ in. Lag Screws into Head Tie. Base Plate secured otherwise by 4-¾x4½ in. Lag Screws.

Plunger Lock Casting for Slip end shall be bolted to Base Plate by two ¾x2 in. Bolts and two ¾x4½ in. Lag Screws into Head Tie. Base Plate secured otherwise by 10-¾x4½ in. Lag Screws.

Tie No. 2 at Frogs 14 ft. 6 in. long, at Slips 15 ft. 0 in. long. Ties Nos. 1 and 3, 13 ft. 0 in. long.



TIE NO 2

ASSEMBLAGE—"B"
(WITH DETECTOR BARS)

ITEM NO.	REQD.	NAME	FIG.	PLAN
1	2	FRONT & LOCK RODS L.H. COMP. FOR M.P. FROGS	20635	210-S1
2	1	" " " ROD R.H. " " SINGLE SLIP SWS.	20637	210-S2
3	1	" " " L.H. " " " "	21042	210-S2
4	4	OPERATING RODS COMP. FOR M.P. FROGS & SINGLE SLIP SWS.	2153	215-S1
5	2	PLUNGER LOCKS COMP. FOR M.P. FROGS	2275	227-S1
6	2	" " " " SLIP SWITCHES	2274	227-S1
7	2	ADJUSTABLE LINKS	20637	206-S3
8	10	STRAIGHT ARMS COMP. FOR ROCKING SHAFT	20349	203-S2
9	2	LOW SHAFT BEARING COMPLETE	20365	203-S3
10	4	" " " "	20364	203-S3
11	2	ROCKING SHAFT 10'-0"	20356	203-S2
12	2	THREE ARM CRANKS & STANDS COMPLETE	20411	204-S1
13	1	RIGHT ANGLE CRANK & STAND COMPLETE	20414	204-S1
15	1	STRAIGHT ARM COMPENSATOR & STAND COMP.	20415	204-S1
16	4	SUPPORTING PLATES	20417	204-S1
17	3	SOLID WROUGHT JAWS	2066	206-S1
18	2	ADJUSTABLE LINKS	20613	206-S1
19	1	SOLID LINK	20635	206-S3
20	1	SOLID LINK	20638	206-S3
21	2	TIE STRAPS	2372	237-S1
22	1	" STRAP	2375	237-S1
23	44	¾x4½ LAG SCREWS		
24	6	⅞x8¾ SQ. HD. BOLTS EACH WITH PL. WASHER & HEX. NUT		
25	10	¾x2" " " " " HEX. NUT		
26	2	ONE-WAY TRANSVERSE PIPE CARRIERS COMP.	22223	222-S1
27	4	SWITCH CIRCUIT CONTROLLERS COMPLETE	2597	259-S1
28	1	ADJUSTABLE LINK	20632	206-S3
29	7	" LINKS	20633	206-S3
30	1	SOLID LINK	20636	206-S3
31	1	TIE STRAP	2372	237-S1
32	4	53'-0" DETECTOR BARS COMPLETE	20725	207-S3
33	3	18'-0" " " "	20726	207-S3
34	8½	DETECTOR BAR CLIPS COMP. FOR 100 LB. P.R.R. RAIL	20710	207-S1
	8½	" " " " 85 " "	20712	207-S1
	8½	" " " " 100 " P.S. "	20724	207-S2
	8½	" " " " 85 " "	20722	207-S2
35	8	DETECTOR BAR DRIVING PIECES	20732	207-S4

Switch Rods, Bridle Plates and Rail Braces to be furnished with Switch Points, for details see M. W. plans.

Detector Bars (when used) shall be arranged to give 53 ft. 0 in. continuous protection.

Boss on Rail Clips between ties Nos. 2 and 3, to be cut off flush with Base of rail.

The first and Second Rail Clips at each end of Bar shall be spaced 8 in. and 26 in. respectively from end, the remaining clips approximately 3 ft. 9 in.

Redrawn and Revised Feb. 27, 1919. Reference numbers changed. Detail of Rod and Circuit Controllers added.

PRR

232-S1
Formerly 22-S1

STANDARD
MECHANICAL SWITCH LAYOUT
APPLICATION TO SINGLE SLIPS AND M. P. FROGS
PHILA., FEBRUARY 27, 1919.

Correct
Signal Engineer

Approved
Engineer M. W.

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