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

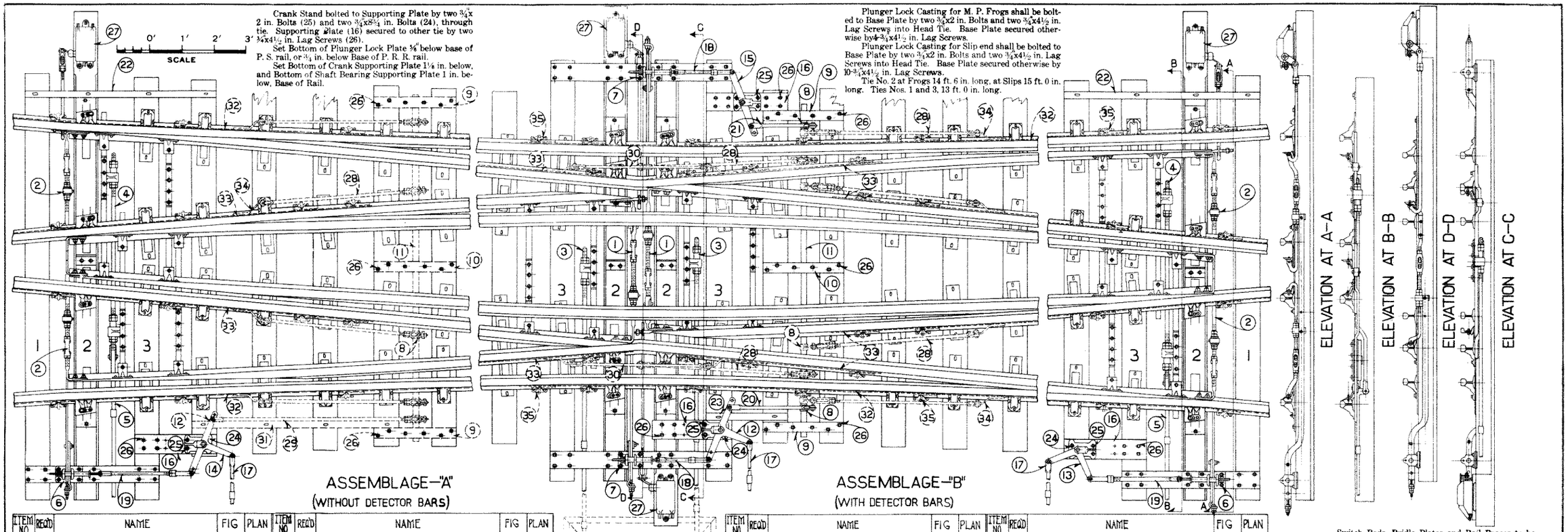
Set Bottom of Plunger Lock Plate ⅝" below base of P. S. rail, or ¾ in. below Base of P. R. R. rail.

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

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

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

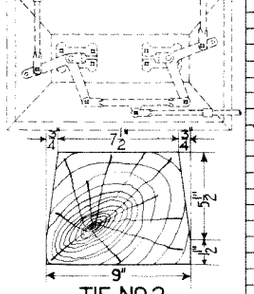
Tie No. 2 at Frogs 14 ft. 6 in. long, at Slips 15 ft. 0 in. long. Ties Nos. 1 and 3, 13 ft. 0 in. long.



ASSEMBLAGE—"A"
(WITHOUT DETECTOR BARS)

ITEM NO	REQ'D	NAME	FIG	PLAN
1	2	FRONT & LOCK RODS COMP. FOR M.P. FROGS	21035	210-S1
2	2	" " " " " FOR DOUBLE SLIP SWS.	21022	210-S1
3	2	OPERATING RODS FOR M.P. FROGS	2153	215-S1
4	2	" " " DOUBLE SLIP SWS.	2155	215-S1
5	2	" " " " " "	21511	215-S1
6	2	PLUNGER LOCKS FOR SLIP SWS.	2274	227-S1
7	2	" " " M.P. FROGS	2275	227-S1
8	2	STRAIGHT ARMS COMPLETE	20545	205-S2
9	2	LOW SHAFT BEARINGS COMPLETE	20364	203-S3
10	1	" " " "	20365	203-S3
11	1	SHAFT 10'-6"	20356	203-S2
12	1	THREE ARM CRANK & STAND COMPLETE	20411	204-S1
13	1	RIGHT ANGLE CRANK & STAND COMPLETE	20413	204-S1
14	1	" " " " " "	20414	204-S1
15	1	STRAIGHT ARM COMPENSATOR & STAND COMP.	20415	204-S1
16	4	SUPPORTING PLATES COMPLETE	20417	204-S1
17	3	SOLID JAWS	2066	206-S1
18	2	ADJUSTABLE LINKS COMPLETE	20613	206-S1
19	2	" " "	20637	206-S3

ITEM NO	REQ'D	NAME	FIG	PLAN
20	1	SOLID LINK	20635	206-S3
21	1	" "	20636	206-S3
22	2	TIE STRAPS	2372	237-S1
23	1	" STRAP	2375	237-S1
24	6	¾"x8¾" SQ. HD. BOLTS EACH WITH PL. WASHER & HEX. NUT		
25	10	¾"x2" " " " " " HEX. NUT		
26	32	¾"x4½" LAG SCREWS		
27	4	SWITCH CIRCUIT CONTROLLERS	2597	259-S1



TIE NO 2

ASSEMBLAGE—"B"
(WITH DETECTOR BARS)

ITEM NO	REQ'D	NAME	FIG	PLAN
1	2	FRONT & LOCK RODS COMP. FOR M.P. FROGS	21035	210-S1
2	2	" " " " " DOUBLE SLIP SWS.	21022	210-S1
3	2	OPERATING RODS FOR M.P. FROGS	2153	215-S1
4	2	" " " DOUBLE SLIP SWS.	2155	215-S1
5	2	" " " " " "	21511	215-S1
6	2	PLUNGER LOCKS FOR SLIP SWS.	2274	227-S1
7	2	" " " M.P. FROGS	2275	227-S1
8	13	STRAIGHT ARMS COMPLETE	20545	205-S2
9	4	LOW SHAFT BEARINGS COMPLETE	20364	203-S3
10	2	" " " "	20365	203-S3
11	2	SHAFTS 10'-6"	20356	203-S2
12	2	THREE ARM CRANKS AND STANDS COMPLETE	20411	204-S1
13	1	RIGHT ANGLE CRANK AND STAND COMPLETE	20413	204-S1
15	1	STRAIGHT ARM COMPENSATOR & STAND COMP.	20415	204-S1
16	4	SUPPORTING PLATES COMPLETE	20417	204-S1
17	3	SOLID JAWS	2066	206-S1
18	2	ADJUSTABLE LINKS COMPLETE	20613	206-S1
19	2	" " "	20637	206-S3

ITEM NO	REQ'D	NAME	FIG	PLAN
20	1	SOLID LINK	20635	206-S3
21	1	" "	20636	206-S3
22	2	TIE STRAPS	2373	237-S1
23	1	" STRAP	2375	237-S1
24	6	¾"x8¾" SQ. HD. BOLTS EACH WITH PL. WASHER & HEX. NUT		
25	10	¾"x2" " " " " " HEX. NUT		
26	44	¾"x4½" LAG SCREWS		
27	4	SWITCH CIRCUIT CONTROLLERS	2597	259-S1
28	10	ADJUSTABLE LINKS	20635	206-S3
29	1	" "	20636	206-S3
30	2	SOLID LINKS	20636	206-S3
31	1	TIE STRAP	2372	237-S1
32	4	53'-0" DETECTOR BARS COMPLETE	20725	207-S3
33	6	18'-0" " " "	20726	207-S3
34	12	DETECTOR BAR DRIVING PIECES	20732	207-S4
35	100	DETECTOR BAR CLIPS COMP. FOR 100# P.R.R. RAIL	20710	207-S1
	100	" " " " " 85# P.R.R. "	20712	207-S1
	100	" " " " " 100# P.S. "	20724	207-S2
	100	" " " " " 85# P.S. "	20722	207-S2

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 Jan. 22, 1923. Reference numbers changed. Details, Switch Point and Frog Controllers added.

231-S1

STANDARD

MECHANICAL SWITCH LAYOUT

APPLICATION TO DOUBLE SLIPS AND M. P. FROGS

PHILA., JANUARY 22, 1919.

Correct: Signal Engineer

Approved: Engineer M. W.

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