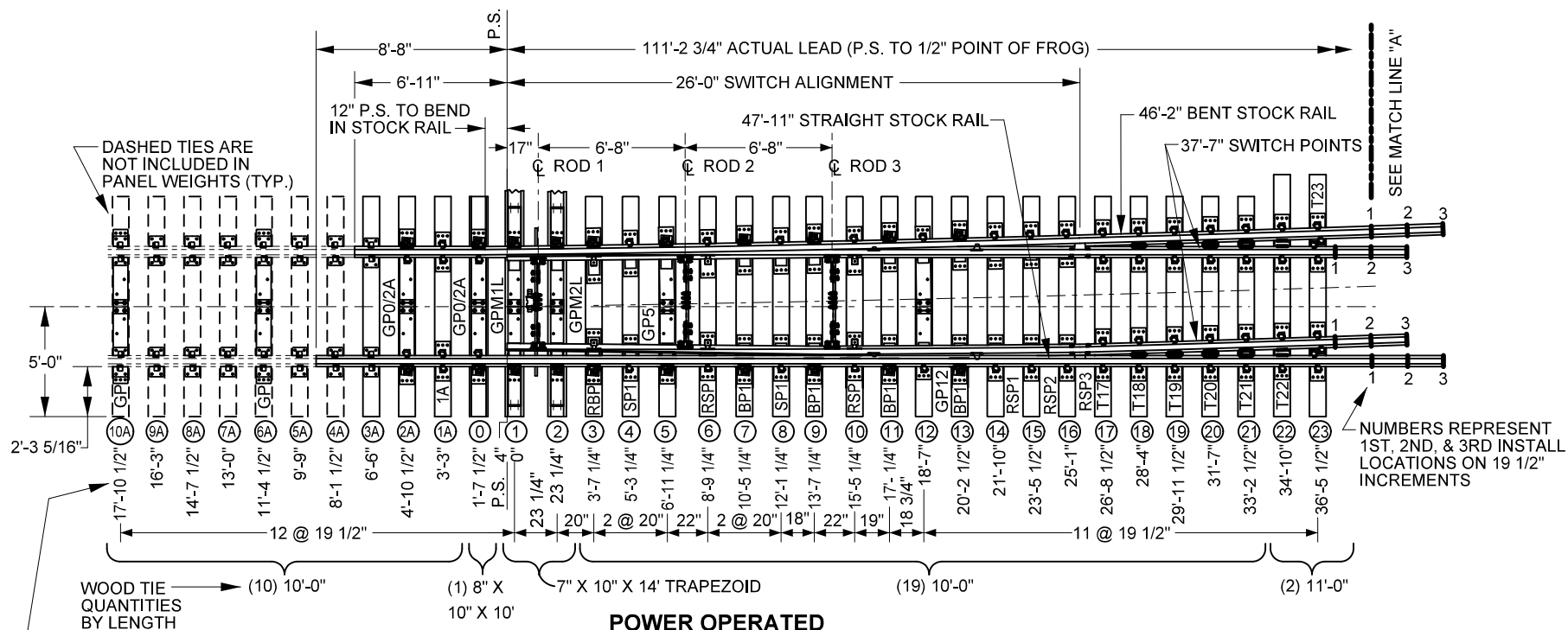
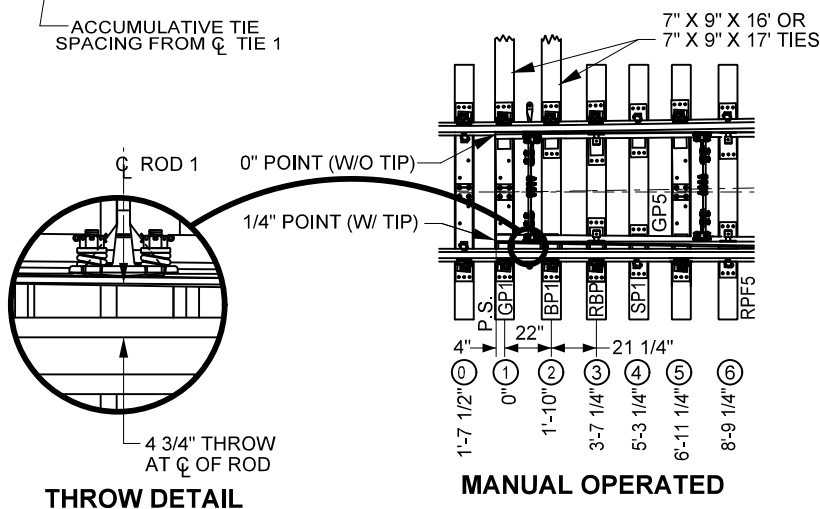




POWER OPERATED



NOTES:

1. ALL TIE SPACING 19 1/2" EXCEPT WHERE NOTED.
2. ALL TIES 7" X 9" BODY UNLESS OTHERWISE SHOWN.
3. APPLY 5" BOND WIRES ONE CRIB AHEAD OF HEEL OF SWITCH ON STOCK AND SWITCH POINT RAILS.
4. PANEL WEIGHT = APPROXIMATELY 20,900 LBS.

**UNION PACIFIC RAILROAD
COMMON STANDARDS**



**NO. 15 TURNOUT
136/141 LB.**

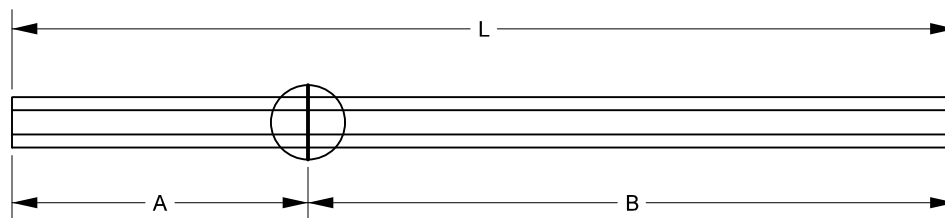
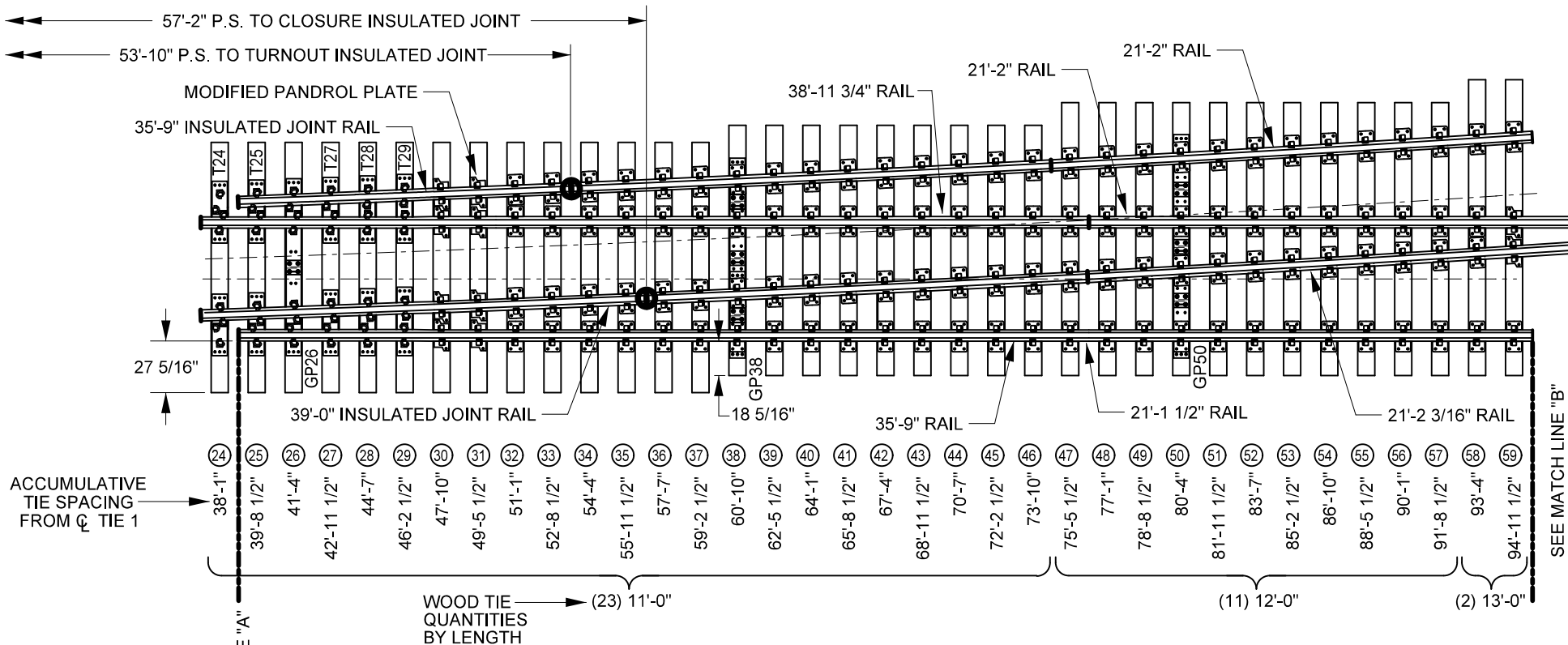


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NOTES:

1. ALL TIE SPACING IS 19 1/2" ON THIS PANEL.
2. ALL TIES 7" X 9" BODY UNLESS OTHERWISE SHOWN.
3. PANEL WEIGHTS = APPROXIMATELY 19,500 LBS. AND 11,800 LBS.

**UNION PACIFIC RAILROAD
COMMON STANDARDS**



**NO. 15 TURNOUT
136/141 LB.**



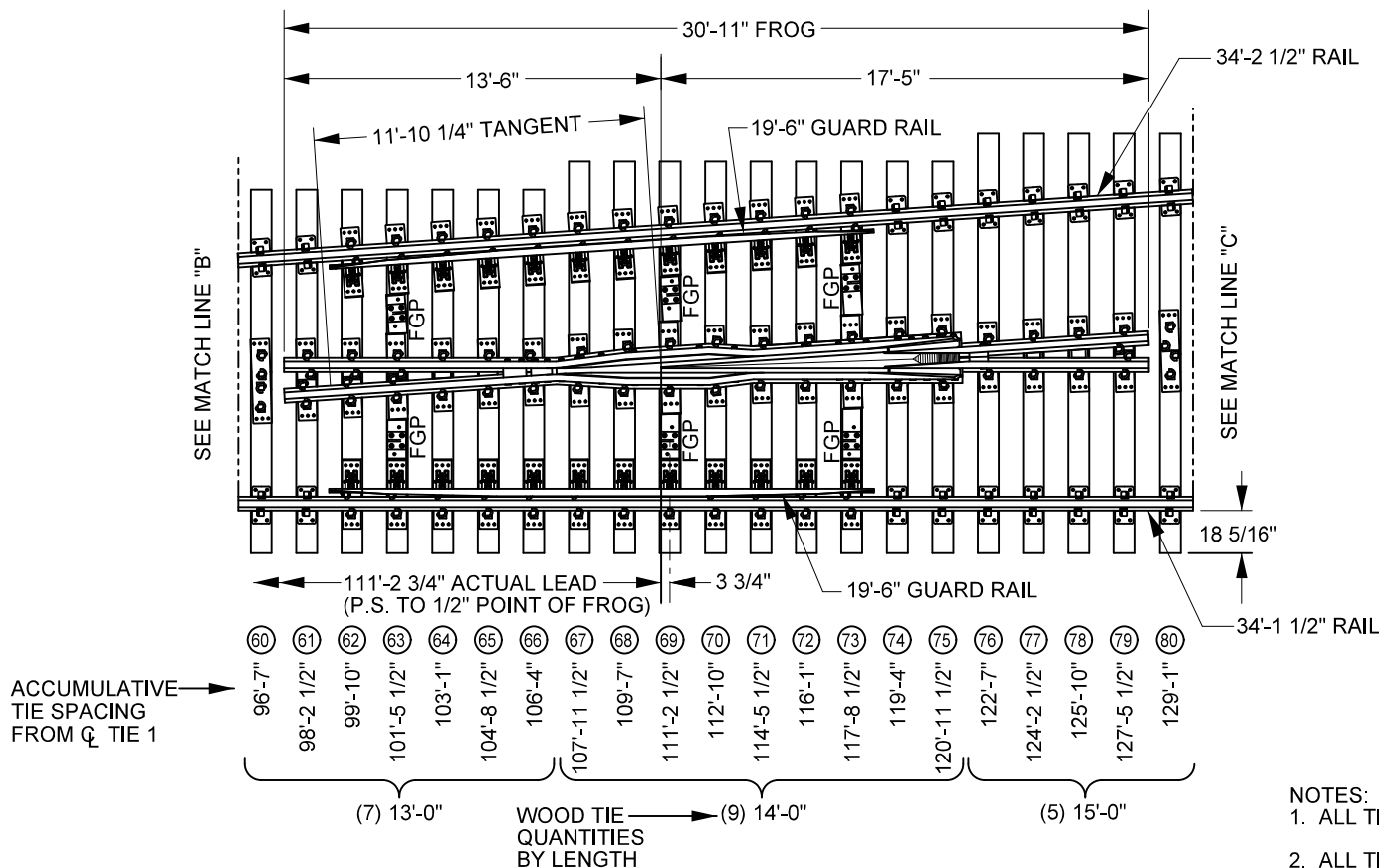
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	A	B	L
TURNOUT INSULATED JOINT RAIL	14'-8"	21'-1"	35'-9"
CLOSURE INSULATED JOINT RAIL	19'-7"	19'-5"	39'-0"



NOTES:

1. ALL TIE SPACING IS 19 1/2" ON THIS PANEL.
2. ALL TIES 7" X 9" BODY UNLESS OTHERWISE SHOWN.
3. PANEL WEIGHT = APPROXIMATELY 28,800 LBS.

**UNION PACIFIC RAILROAD
COMMON STANDARDS**



**NO. 15 TURNOUT
136/141 LB.**

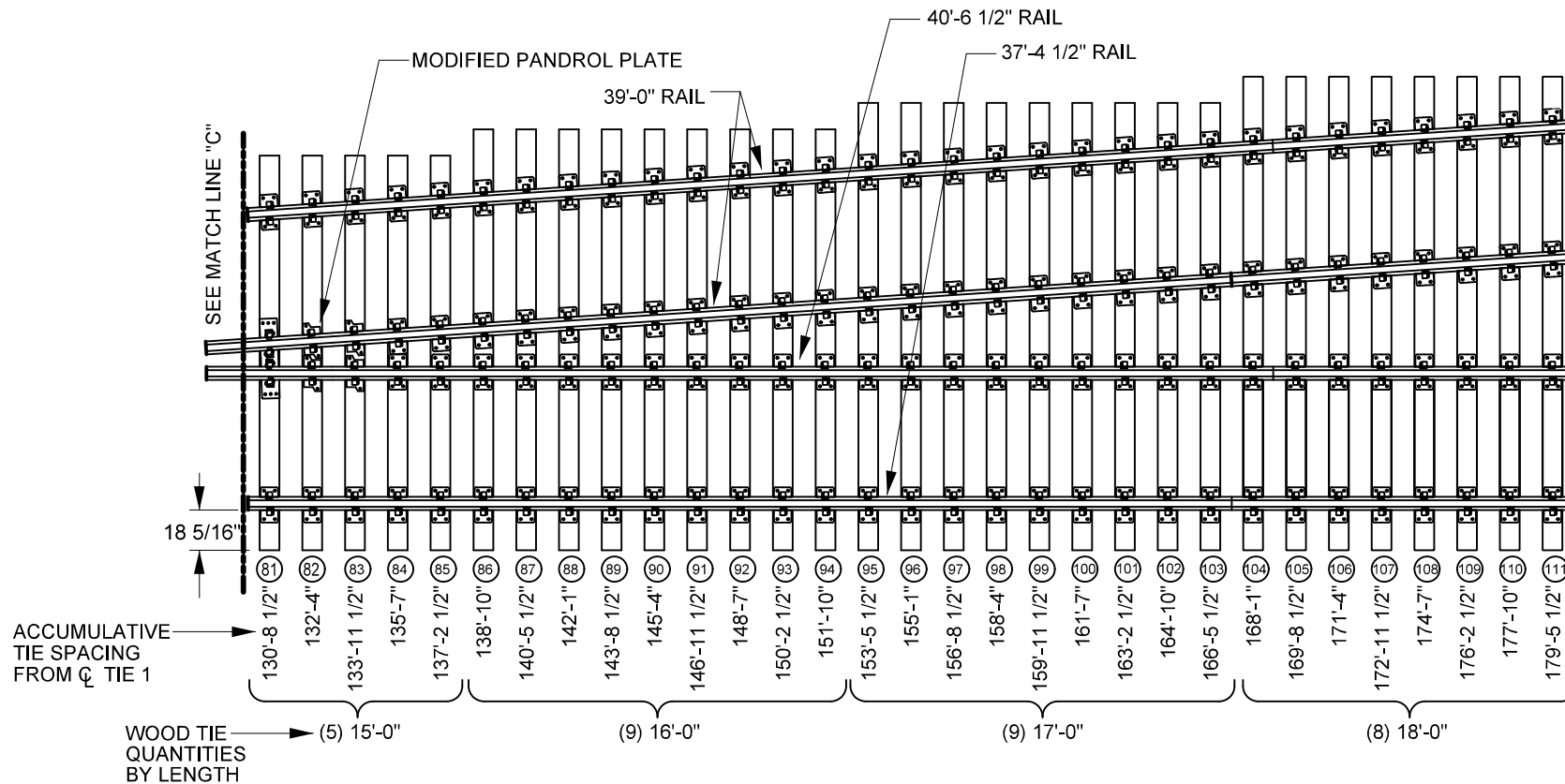


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NOTES:

1. ALL TIE SPACING IS 19 1/2" ON THIS PANEL.
2. ALL TIES 7" X 9" BODY UNLESS OTHERWISE SHOWN.
3. PANEL WEIGHT = APPROXIMATELY 23,650 LBS.

UNION PACIFIC RAILROAD
COMMON STANDARDS



NO. 15 TURNOUT
136/141 LB.

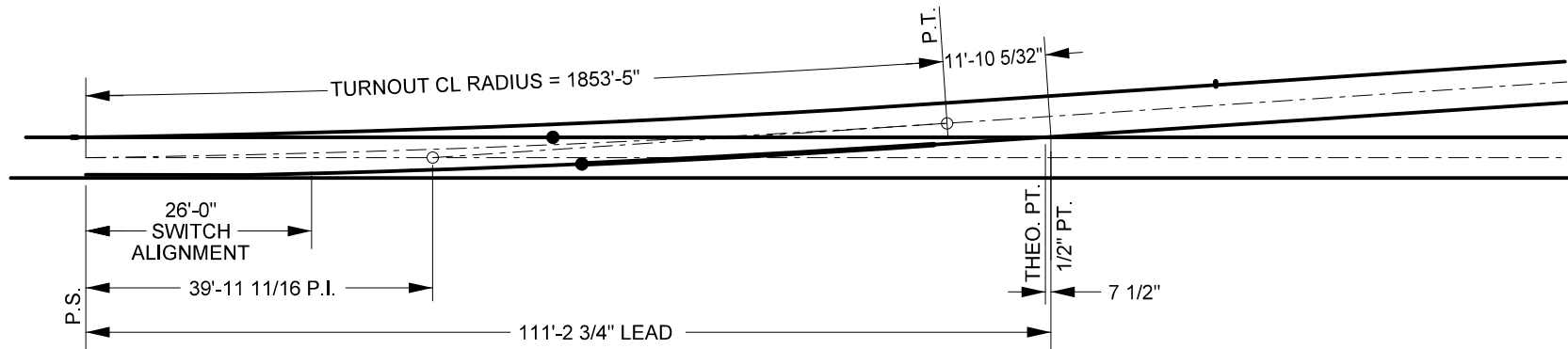


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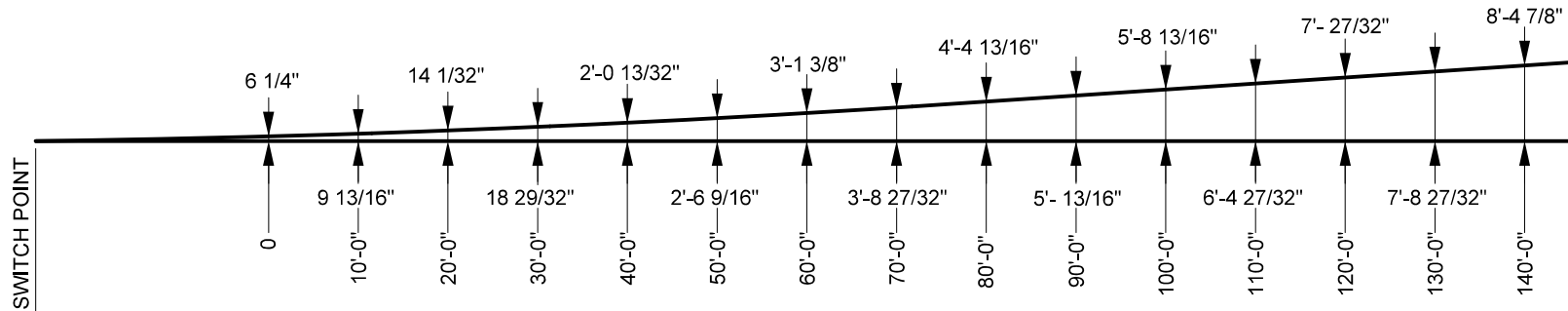
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GENERAL LAYOUT



SPREAD LAYOUT

SWITCH DATA

SWITCH LENGTH	26'-0"
HEEL SPREAD	6 1/4"
HEEL ANGLE	1°-33'-2"
SWITCH ANGLE	0°-44'-47"
THROW AT ROD #1	4 3/4"
RADIUS (CENTER LINE)	1853.42'
T =	49.68'
CENTRAL ANGLE - CLOSURE CURVE	3°-04'-16"
DEGREE OF CURVE	3°-05'-30"
THICKNESS AT POINT	1/4"
RADIUS (CLOSURE CURVE)	1855.77'
VERTEX DISTANCE	0"

FROG DATA

ANGLE	3°-49'-06"
LENGTH	VARIES

TURNOUT DATA

RADIUS OF CENTER LINE	1853.42'
T =	49.68'
CENTRAL ANGLE - CLOSURE CURVE	3°-04'-16"
DEGREE OF CURVE	3°-05'-30"

NOTES:

**UNION PACIFIC RAILROAD
COMMON STANDARDS**



**NO. 15 TURNOUT
136/141 LB.**



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ITEMS USED IN ALL NO. 15 TURNOUTS			
QTY.	COMPONENT DESCRIPTION	DWG NO.	UPRR ITEM NO.
1	26-0" (EXT. 37'-7") STRT SAMSON SWITCH POINT	1330	SEE DWG
1	26-0" (EXT. 37'-7") CURVED SAMSON SWITCH POINT	1330	SEE DWG
1	47'-11" STRAIGHT SAMSON STOCK RAIL	1405	SEE DWG
1	46'-2" BENT/CURVED SAMSON STOCK RAIL	1405	SEE DWG
1 EA.	SWITCH RODS NO. 2 AND 3	2190	557-5586
2	"GP" GAUGE PLATE FOR TIES 6A & 10A AHEAD OF POINT	1705	N/A
2	"1A" PLATE FOR TIE 1A AHEAD OF POINT	1540	N/A
2	"GP0/2A" ADJUSTABLE BRACE GAUGE PLATE FOR TIES 0 & 2A	1702	N/A
1	"GP5" ADJUSTABLE BRACE GAUGE PLATE FOR TIE 5	1720	N/A
1	"GP12" GAUGE PLATE FOR TIE 12	1720	N/A
2	RBP - ADJUSTABLE BRACE ROLLER PLATE FOR TIE 3	2230	SEE DWG
2	EKOSLIDE ROLLER ASSEMBLY TYPE CZ-5	2230	SEE DWG
4	RSP - ROLLER SLIDE PLATE FOR TIES 6 & 10	2230	SEE DWG
4	EKOSLIDE ROLLER ASSEMBLY TYPE CX	2230	SEE DWG
8	"BP1" ADJUSTABLE BRACE SLIDE PLATE	1540	557-2638
4	"SP1" SLIDE PLATE	1540	557-2849
2	RISER SLIDE PLATES - RSP1, RSP2, AND RSP3	1525	SEE DWG
2	TURNOUT PLATES T17 THRU T29	1510	557-8991
1	"GP26" GAUGE PLATE FOR TIE 26	1720	SEE DWG
1	"GP38" GAUGE PLATE FOR TIE 38	1720	SEE DWG
1	"GP50" GAUGE PLATE FOR TIE 50	1720	SEE DWG
2	19'-6" BOLTLESS ADJUSTABLE GUARD RAIL	4009	556-5260
6	"FGP" FROG GAUGE PLATE	3015	555-6806
1	39'-0" CLOSURE INSULATED JOINT RAIL	5015	N/A
1	35'-9" INSULATED JOINT TURNOUT RAIL	5015	N/A
384	136 OR 141 LB. RAIL (IN LINEAR FEET)	0709	SEE DWG
218	PANDROL TIE PLATE	0469	503-9020
14	MODIFIED PANDROL TIE PLATE	0470	N/A
720	PANDROL CLIP E-2055	0436	503-6100
8	PANDROL INSULATED JOINT CLIP ASSEMBLY	N/A	503-5580
1424	15/16" DIA. x 6 1/2" LG. "RAILROAD APPROVED" SCREW SPIKES	0431	503-8620
610	RAIL ANCHORS	0439	550-1650

ITEMS SPECIAL TO MANUAL OR POWER AND A CHOICE OF FROGS			
QTY.	REQUIRED FOR MANUAL	DWG #	UPRR ITEM #
1	"GP1" ADJUSTABLE BRACE GAUGE PLATE FOR TIE 1	1701	SEE DWG
2	"BP1" ADJUSTABLE BRACE SLIDE PLATE FOR TIE 2	1540	557-2638
1	7" X 9" X 10'-0" TIE (TIE 0)	N/A	502-1000
2	7" X 9" X 16'-0" OR 7" X 9" X 17'-0" TIE (TIES 1 AND 2)	N/A	502-1600
1	SWITCH ROD NO. 1	2190	557-5587
QTY.	REQUIRED FOR POWER	DWG #	UPRR ITEM #
1	SWITCH ROD NO. 1 WITH BASKET (ADJUSTER)	2195	557-5585
1	"GPM1L/R" ADJUSTABLE BRACE MACHINE GAGE PLATE FOR TIE 1	1703	SEE DWG
1	"GPM2L/R" ADJUSTABLE BRACE MACHINE GAGE PLATE FOR TIE 2	1704	SEE DWG
1	8" (TOP) X 10" X 10'-0" TIE (TIE 0)	0232	502-4300
2	7" X 10" X 14'-0" TRAPEZOID TIE (TIES 1 AND 2)	0233	502-4899
QTY.	REQUIRED FOR POWER	DWG #	UPRR ITEM #
1	30'-11" RBM WITH PLATES	3072	SEE DWG

TIES USED IN ALL #15 TURNOUTS		
QTY.	SIZE	TIE NUMBER
10	7" X 9" X 10'-0"	TIES 1A THRU 10A
19	7" X 9" X 10'-0"	TIES 3 THRU 21
25	7" X 9" X 11'-0"	TIES 22 THRU 46
11	7" X 9" X 12'-0"	TIES 47 THRU 57
9	7" X 9" X 13'-0"	TIES 58 THRU 66
9	7" X 9" X 14'-0"	TIES 67 THRU 75
10	7" X 9" X 15'-0"	TIES 76 THRU 85
9	7" X 9" X 16'-0"	TIES 86 THRU 94
9	7" X 9" X 17'-0"	TIES 95 THRU 103

1. ALL MATERIAL TO MEET OR EXCEED RAILROADS RELATED SPECIFICATIONS.
2. SIGNAL DEPARTMENT TO FURNISH #1 ROD BASKET ADJUSTER AND DAP PLATING FOR MACHINE MOUNTING.
3. TRAPEZOID HEAD BLOCK TIES ARE DAPPED PER DWG 0233.

UNION PACIFIC RAILROAD

COMMON STANDARDS



NO. 15 TURNOUT

136/141 LB.



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