

NORTHWESTERN PACIFIC RAILROAD CO.

TIME-TABLE

18

To Take Effect Monday, January 1, 1940, at 2:59 A. M.

PACIFIC STANDARD TIME (120th MERIDIAN)

For the government and information of employees only.

EDWARD H. MAGGARD,
President and General Manager.

H. R. GERNREICH,
Superintendent.

Northward

SOUTHERN DIVISION

Southward

Capacity of Sidings in car lengths, and location of Fuel, Water and Turning Stations.	FIRST CLASS		Distance from San Francisco	Time-Table No. 18 January 1, 1940	Distance from Willits	FIRST CLASS	
	4 Eureka Express	2 Eureka Passenger				3 Eureka Express	1 Eureka Passenger
	Leave Daily	Leave Daily				Arrive Daily	Arrive Daily
	8.30 PM	7.35 AM	0.0	SAN FRANCISCO	139.5	8.47 AM	6.32 PM
	9.02 PM	8.07 AM	6.5	SAUSALITO	133.0	8.15 AM	6.00 PM
Yard WOTPBK	9.15 PM	8.10 AM	6.5	TO-R SAUSALITO	133.0	8.00 AM	5.50 PM
16 IP			9.9	ALMONTE	129.6		
P			11.5	SOUTH PORTAL	128.0		
P			12.2	NORTH PORTAL	127.8		
5 *P			12.6	CORTEMADERA (Spur-N)	126.9		
IP	9.28	8.24	13.0	BALTIMORE PARK	126.5	7.44	5.33
YP	9.30	8.26	14.3	DETOUR	125.2	7.42	5.31
WIYPBK	s 9.40	s 8.35	17.0	TO-R SAN RAFAEL	122.5	s 7.37	s 5.24
22 P			18.7	CERRO	120.5		
22 P	9.47	8.42	20.0	GOLF	119.5	7.27	5.14
31 P		f	21.1	GALLINAS (Spur-N)	118.4	f	f
33 P	9.50	f 8.45	21.7	MILLER	117.8	f 7.24	f 5.11
29		f	22.0	ST. VINCENT (Spur-N)	117.6	f	f
78 WYOPBK	9.55	f 8.50	24.9	IGNACIO	114.6	f 7.18	f 5.06
42 P	s 10.00	f 8.58	27.8	NOVATO	111.7	s 7.13	f 5.01
49 WP	10.06	f 9.04	31.3	BURDELL	108.2	f 7.07	f 4.54
54	10.14	9.12	36.7	HAYSTACK	102.8	6.59	4.46
108 WPBK	s 10.27	s 9.21	38.5	PETALUMA	101.0	s 6.54	s 4.42
41			39.2	PARK SIDING	100.3		
9		f	41.0	CROWN (Spur-S)	98.5	f	f
34	10.32	f 9.26	42.0	ELY	97.5	f 6.42	f 4.27
		f	43.3	PENN GROVE	96.2	f	f
58 WP	10.39	f 9.34	46.1	COTATI	93.4	f 6.34	f 4.20
21		f	48.7	WILFRED	90.8	f	f
26	10.47	f 9.43	51.3	BELLEVUE	88.2	f 6.24	f 4.11
74 WPBK	s 10.52 PM	s 9.47 AM	53.8	TO-R SANTA ROSA	85.7	6.20 AM	4.07 PM
	Arrive Daily	Arrive Daily				Leave Daily	Leave Daily

*P. T. & T. Telephone

Northward

SOUTHERN DIVISION

Southward

Capacity of Sidings in car lengths, and location of Fuel, Water and Turning Stations.	FIRST CLASS		Distance from San Francisco	Time-Table No. 18 January 1, 1940	Distance from Willits	FIRST CLASS	
	4 Eureka Express	2 Eureka Passenger				3 Eureka Express	1 Eureka Passenger
	Leave Daily	Leave Daily				Arrive Daily	Arrive Daily
74 WPBK	11.05 PM	9.53 AM	53.8	TO-R SANTA ROSA	85.7	s 6.10 AM	s 4.03 PM
121 YP			54.4	WYE SIDING	85.1		
58 WP	11.13	f 10.01	58.5	FULTON	81.0	f 6.01	f 3.54
31		f	59.8	MARK WEST	79.7	f	f
14 P	11.19	s 10.09	62.9	WINDSOR	76.6	f 5.54	s 3.47
8		f	66.4	GRANT	73.1		f
44			67.0	BAILHACHE	72.5		
37 WTPK	s 11.27	s 10.21	68.0	TO HEALDSBURG	71.5	s 5.45	s 3.38
45 P	11.33	f 10.28	71.9	LYTTON	67.6	f 5.35	f 3.27
40 P	11.39	s 10.35	75.8	TO GEYSERVILLE	63.7	s 5.28	s 3.22
8 P		f	78.8	CHIANTI	60.7	f	f
40 P	11.46	f 10.44	81.3	ASTI	58.2	f 5.18	f 3.13
67 WOTP	11.52	s 10.53	85.2	TO OLOVERDALE	54.3	s 5.12	s 3.06
28	11.56	f 10.57	87.1	PRESTON	52.4	f 5.04	f 3.00
25 P	12.02 AM	f 11.02	89.8	ECHO	49.7	f 4.58	f 2.55
19 P			92.6	THORN	46.9		
65 P	12.14	f 11.13	95.3	PIETA	44.2	f 4.46	f 2.43
64 WP	12.24	s 11.23	100.1	TO HOPLAND	39.4	s 4.36	s 2.34
53 P	12.30	f 11.30	103.9	LARGO	35.6	f 4.27	f 2.26
20			106.9	HENRY	33.6		
14	12.40	f 11.39	109.6	EL ROBLE	29.9	f 4.17	f 2.17
49 WOTPBK	s 12.55	s 11.49	114.0	TO UKIAH	25.5	s 4.10	s 2.10
23 P	1.05	f 11.59	120.1	CALPELLA	19.4	f 3.55	f 1.53
44 WYP	1.13	f 12.04 PM	122.1	REDWOOD VALLEY	17.4	f 3.51	f 1.50
29 P	1.17	f 12.09	124.0	LAUGHLIN	15.5	f 3.46	f 1.46
9 P	1.29	12.21	127.9	HILPASS	11.6	3.33	1.33
15 TWP	1.42	f 12.34	131.4	RIDGE	8.1	s 3.21	s 1.21
Yard WYOPBK	2.05 AM	f 1.00 PM	139.5	TO-R WILLITS	0.0	3.00 AM	1.00 PM
	Arrive Daily	Arrive Daily				Leave Daily	Leave Daily

Northward

SOUTHERN DIVISION

Southward

Northward

SOUTHERN DIVISION

Southward

Capacity of Sidings in car lengths, and location of Fuel, Water and Turning Stations.	Distance from San Francisco	Time-Table No. 18 January 1, 1940	Distance from Willits	Capacity of Sidings in car lengths, and location of Fuel, Water and Turning Stations.	Distance from San Francisco	Time-Table No. 18 January 1, 1940	Distance from Manon				
								STATIONS		STATIONS	
								TO-R			
Yard WTOPBK	6.5	TO-R TIBURON	131.4	IP	13.0	BALTIMORE PARK	5.8				
14	10.1	REED (Spur-N)	127.8	5 *P	14.7	KENTFIELD (Spur-N)	4.1				
7	11.4	MEADOWSWEET (Spur-N)	126.5	IYP	16.5	SAN ANSELMO	2.3				
YP	12.7	DETOUR	125.2	6 P	18.3	FAIRFAX (Spur-N)	0.5				
				P	18.8	MANOR	0.0				

For additional schedules see Interurban Time-Table.

No. 4 stop on flag at any station to receive and discharge revenue passengers.

Saturdays, Sundays, Holidays and days preceding holidays No. 4 stop on flag at any station to receive and discharge non-revenue passengers.

Northward		SOUTHERN DIVISION		Southward	
Capacity of sidings in car lengths, and location of Fuel, Water and Turning Stations.	Distance from San Francisco	Time-Table No. 18 January 1, 1940		Distance from Los Guilicos	
		STATIONS			
		78 WYOPBK	24.9		
21 P	28.5	BLACK POINT	29.4		
21	30.8	RECLAMATION	27.1		
17	33.4	SEARS POINT	24.5		
9 P	35.2	FAIRVILLE (Spur-N)	22.7		
33 YWP	40.4	TO SOHELLVILLE	17.5		
22 P	44.8	SONOMA	13.1		
21 TW	55.7	KENWOOD	2.2		
3	57.9	LOS GUILICOS	0.0		

Northward		NORTHERN DIVISION		Southward	
Capacity of sidings in car lengths, and location of Fuel, Water and Turning Stations.	Distance from San Francisco	Time-Table No. 18 January 1, 1940		Distance from Korblex	
		STATIONS			
		Yard WYOPBK	284.1		
P	286.7	FRESHWATER JUNCT.	8.5		
23	289.5	BRAINARD	5.7		
	291.8	A. & M. R. CROSSING	3.4		
13 WYPK	292.5	TO-R ARCATA	2.7		
P	292.9	A. & M. R. CROSSING	2.3		
20 P	295.2	KORBLEX	0.0		

Northward		NORTHERN DIVISION		Southward	
Capacity of sidings in car lengths, and location of Fuel, Water and Turning Stations.	Distance from San Francisco	Time-Table No. 18 January 1, 1940		Distance from Samoa	
		STATIONS			
		13 WYPK	292.5		
24	299.1	CARSONS	1.6		
P	299.8	SAMOA YARD	0.9		
7 WY	300.7	SAMOA	0.0		

Northward		NORTHERN DIVISION		Southward	
Capacity of sidings in car lengths, and location of Fuel, Water and Turning Stations.	Distance from San Francisco	Time-Table No. 18 January 1, 1940		Distance from Carlotta	
		STATIONS			
		32 WOP	262.7		
P	267.7	CARLOTTA	0.0		

Northward		NORTHERN DIVISION		Southward	
Capacity of sidings in car lengths, and location of Fuel, Water and Turning Stations.	Distance from San Francisco	FIRST CLASS		Distance from Eureka	
		2	4		
		Eureka Passenger	Eureka Express		
		Time-Table No. 18 January 1, 1940		FIRST CLASS	
		STATIONS		1	3
				Eureka Passenger	Eureka Express
				Arrive Daily	Arrive Daily
Yard WYOPBK	139.5	1.20 PM	2.20 AM	144.6	112.40 PM
59 P	143.7	f 1.28	2.28	140.4	f 12.29
61 P	148.7	f 1.37	2.37	135.4	f 12.18
66 WP	152.5	f 1.45	2.45	131.6	f 12.09 PM
49 P	158.2	f 1.56	2.55	125.9	f 11.57
45 WP	161.8	f 2.03	3.02	122.3	f 11.49
52 WOP	166.5	s 2.14	s 3.13	117.6	s 11.39
38 P	171.1	f 2.23	3.22	113.0	f 11.25
44 P	175.5	f 2.32	3.31	108.6	f 11.16
70 P	180.0	f 2.42	3.41	104.1	s 11.06
60 WOP	184.3	f 2.51	3.50	99.8	f 10.57
27 P	189.3	f 3.02	4.01	94.8	f 10.47
60 WOTP	194.5	s 3.14	f 4.13	89.6	s 10.36
36 WP	200.8	f 3.28	4.26	83.8	f 10.23
23 P	205.5	f		78.6	f
60 P	209.1	s 3.47	s 4.45	75.0	s 10.04
59 WOP	216.6	s 4.03	5.00	67.5	s 9.48
47 P	221.5	f 4.13	5.10	62.6	f 9.37
48 P	225.1	f 4.21	5.18	59.0	f 9.29
22 P	230.1	f 4.31	5.28	54.0	f 9.19
58 WP	232.2	f 4.35	5.32	51.9	f 9.15
62 WYOPBK	237.3	s 4.46	s 5.43	46.8	s 9.05
27 P	241.7	f 4.55	5.51	42.4	f 8.55
17 P	245.6	s 5.05	6.00	38.6	s 8.47
28 WP	247.6	f		36.8	f
30 P	250.0	f 5.14	6.09	34.1	f 8.37
26 PK	255.6	s 5.25	s 6.21	28.5	s 8.26
24 P	259.0	f 5.36	6.32	25.1	f 8.15
	260.2	f		23.9	f
32 WOP	262.7	s 5.43	6.38	21.4	s 8.09
45	264.5	f		19.6	f
23 P	266.1	s 5.50	s 6.45	18.0	s 8.03
21 P	268.7	s 5.57	s 6.52	15.4	s 7.58
18 P	271.0	s 6.03	f 6.58	13.1	s 7.53
10 P	272.5	f		11.6	f
25 P	273.9	f 6.10	7.05	10.2	f 7.47
33 WP	277.8	f 6.19	7.14	6.3	f 7.41
	280.8			3.3	
26 P	282.0	6.27	7.22	2.1	
Yard WYOPBK	284.1	6.35 PM	7.30 AM	0.0	7.30 AM
		Arrive Daily	Arrive Daily		Leave Daily

No. 4 stop on flag at any station to receive and discharge revenue passengers. Saturdays, Sundays, Holidays and days preceding holidays No. 4 stop on flag at any station to receive and discharge non-revenue passengers.

SPECIAL INSTRUCTIONS

Employees whose duties are prescribed by Rules and Regulations of the Transportation Department, effective June 15, 1930, must each obtain a book containing these Rules and Regulations.

RULE 2. Designated Watch Inspectors:

- S. A. Pope, Manager Time Service 65 Market Street, San Francisco
 - I. S. Preston 210 Phelan Bldg., San Francisco
 - G. F. Davidson, Traveling Watch Inspector
 - C. R. Ellis Sausalito
 - W. F. Rohrer San Rafael
 - A. H. Ross Petaluma
 - L. M. Britton Santa Rosa
 - P. H. Joseph Ukiah
 - A. B. Guslander Willits
 - Ernest Mueller Eureka
 - J. C. Tario Eureka
 - W. J. Thomas Eureka
- A Standard Clock is located at Sausalito Shops.

RULE 4. Designated Holidays:

- New Year's Day, January 1st.
- Washington's Birthday, February 22nd.
- Decoration Day, May 30th.
- Independence Day, July 4th.
- Labor Day.
- Thanksgiving Day.
- Christmas Day, December 25th.

When a holiday falls on Sunday, the following Monday is recognized as the holiday.

RULE 5. At the following stations, sidings are located as shown:

- Ignacio. On east side of main track; from south switch to north crossover switch.
- Santa Rosa. On west side of main track; from south switch to Seventh Street, the second street crossing north of passenger depot.
- Fulton. On west side of main track; from south switch to north switch of scale track.
- Windsor. On east side of main track.
- Geyserville. On east side of main track; from first switch north of depot to north switch.
- Ukiah. South Siding. On west side of main track; from south switch to first switch north of depot.
- North Siding. On west side of main track; from first switch north of first street crossing north of depot to north switch.
- Scotia. On west side of main track; from south switch to first switch south of depot.
- Fernbridge. On west side of main track; from south switch to first switch north of depot.
- South Bay. On west side of main track; from first switch south of depot to first switch north of water tank.

RULE 10 (J). Signs, oval in shape, govern maximum speeds of trains on curves requiring slower movement than speeds specified by time-table. The higher number is that for passenger trains, the lower for all other trains, and but one number is for all trains.

Sign is located one-half mile in advance of curve. Speed shown must not be exceeded from one-half mile beyond this sign to one-half mile before reaching sign of same kind on opposite side of track. One set of signs may govern speed on one curve or two or more curves and intervening tangents.

Speeds indicated are the maximum speeds permitted. Slower speeds must be run when otherwise provided for and when conditions make a slower speed necessary.

RULE 14. Trackman's Call:

Four long, followed by four short blasts of whistle (— — — — o o o o) is Trackman's Call. This signal may be used when necessary to summon trackmen. It must not be used unnecessarily. Upon hearing this signal, by day or night, trackmen must immediately respond. Foremen must keep their men posted as to this signal.

RULE 19. Except in foggy weather, markers will not be displayed by Interurban trains by day.

RULE 21 (C). Passenger engines to handle trains from Sausalito, Willits or Eureka may display indicators before leaving roundhouse.

Indicators of engines on trains arriving Sausalito, Willits or Eureka may be displayed until engine reaches roundhouse, but must be removed immediately after arrival at roundhouse.

RULE 21 (D). Will not apply to Southern Pacific engines.

RULE D-71. Trains may move between Sausalito and San Rafael, via Detour and via San Anselmo and between San Anselmo and Manor with the current of traffic irrespective of time-table superiority. Freight trains must avoid delaying passenger trains.

The movement of Interurban trains must be given preference over other trains.

RULE 72. Movement of trains over single track between Almonte and Mill Valley is governed by automatic block signals. Trains finding such signals at "proceed" may proceed, irrespective of time-table superiority. In case of heavy storms, fog, or other cause rendering view obscure, trains must proceed with caution.

TUNNEL No. 1, M. P. 11.9

Movement of trains on single track will be irrespective of time-table superiority and governed by automatic block signals as follows:

South End: Signal 116, normal position STOP. There is a preliminary beginning at signal 114.

North End: Signal 121, normal position STOP. There is a preliminary post 1000 feet north of signal 121.

Trains will approach these signals with caution. Approaching signal, Conductor must observe position of signal and speed of train.

On passenger trains Conductor will station himself near forward end of train, on car platform. When signal is at PROCEED, Conductor will give engineman hand or lamp signal to proceed and engineman will not proceed without such signal. Conductor and engineman must observe whether signal changes from PROCEED to STOP as trains strikes insulated joints at signal. Should engineer not be able to observe whether signal changes, he will require fireman to observe it and to notify him whether it changes. When signal so changes, Conductor will give engineman hand or lamp signal to proceed, and engineman will not proceed without such signal.

On freight trains, approaching signal, head brakeman must station himself in engine gangway on side on which signal is located; must observe position of signal and speed of train; must observe whether signal changes from PROCEED to STOP position as train strikes insulated joints at signal; and must advise engineer of such observation.

In case of STOP, having waited five minutes, should signal not change to PROCEED, or should it not change to STOP as train strikes insulated joints at signal and a train cannot be seen or heard within the limits of the block, train may proceed under protection of flagman.

Circuit breakers are located at north and south portal of tunnel. In case of accident or other emergency requiring shutting off of current in power rail in tunnel section, circuit breakers can be operated by any one of eight push buttons located at lights placed at a lower elevation than other lights on east side of tunnel.

Pressing one of these buttons when lights are burning will open both circuit breakers.

When lights are not burning current can be shut off only by tripping breakers at both portals by hand.

To restore current, both circuit breakers must be closed by hand. Northward trains must not exceed 15 miles per hour in passing over switches at either end of tunnel.

RULE S-72. Southward trains are superior to trains of the same class in the opposite direction.

RULE 83 (E). A train when authorized by train order, may check the register against an extra train, and proceed if such extra train appears on the register with the number and date of its restricting order registered in column captioned "Signals".

When a train is so authorized to check the register, it must register and place the restricting order number and date in column captioned "Signals".

RULE 93. Yard limits are established at the following stations:

Sausalito includes Pine and Waldo	Cloverdale
San Anselmo includes Bolinas Ave.	Hopland
Manor includes Fairfax	Ukiah includes Asylum
Tiburon	Redwood Valley
San Rafael includes B Street and California Park	Ridge
Ignacio	Willits
Schellville	South Fork
Petaluma includes Haystack, McNear and Park Siding	Scotia Alton
Santa Rosa includes Wye Siding	Fernbridge
Fulton	Beatrice
Healdsburg includes Grant, Bailhache, Finlayson and Oliveto	South Bay
Geyserville includes Tosca and Omus	Eureka includes B. & E.R. R.R. crossing Bucksport and Russ
Asti	Arcata
	Samoa includes Carsons and Samoa Yard Carlotta

RULE D-97 (A). Will apply on double track between Sausalito and San Rafael via Detour and via San Anselmo and between San Anselmo and Manor and on single track between Almonte and Mill Valley.

RULE 98. RAILROAD CROSSINGS AT GRADE NOT INTERLOCKED:

M.P. 40.5	Schellville, S. P. R. R.
M.P. 53.3	Santa Rosa, P. & S. R. R. R.
M.P. 280.8	B. & E. R. R. R., STOP.
M.P. 282.2	B. & E. R. R. R., Holmes Eureka Log Dump track, STOP.
M.P. 291.8	Arcata, A. & M. R. R. R.
M.P. 292.9	Arcata, A. & M. R. R. R.

DRAWBRIDGES INTERLOCKED

M.P. 20.9	Gallinas Gallinas Slough
M.P. 28.8	Black Point Petaluma Creek
M.P. 37.8	Wingo Sonoma Creek
M.P. 37.2	McNear Petaluma Creek
M.P. 285.6	Eureka Eureka Slough

RULE 103 (A). In general, highway crossing signals are so designed that they will not operate for trains or engines making a reverse movement after having passed over the crossing. Trains or engines making such reverse movements must protect the crossing unless it is known that signals are operating.

At Tiburon train and engine movements on siding over highway crossing M.P. 7.26, 449 feet north of water tank, must be protected by flagman. Engines or cars must not be left on this siding within 100 feet of crossing.

At San Anselmo, when wye or freight house switch on northward main track, Manor line, is thrown for siding, wigwag signal at Madrone Avenue, second crossing north of station, will not operate.

If an engine or train is moving northward on northward track, neither switch must be thrown for siding until such engine or train has passed Madrone Avenue.

At Petaluma switching movements must not be made upon or over streets named below, without protection of flagman. Under no circumstances must cars be kicked or a "drop" or "run" be made upon or over such streets, trainmen must be stationed at brake on top of leading car approaching and passing over all streets: Adams Street, also known as east D Street; first street south of passenger depot.

Copeland Street; first street west of passenger depot. Washington Street; first street north of passenger depot. Before switching over railroad crossings, protection by flagman must be given.

RULE 221. Engineer in approaching a train-order office, after whistling for station, if train-order signal can be seen, will sound four short blasts of whistle (14-j) for "proceed" signal, and if "proceed" signal is given will acknowledge it by two short blasts of whistle (14-g).

RULE 221 (A). At San Rafael northward trains and trains leaving for Tiburon must obtain a clearance. Trains must not leave Eureka without a clearance.

RULE 509. Train movements through Tunnel No. 27 (Island Mountain) are protected by signals. Automatic block signals must not be depended upon to protect trains. When necessary, trains must be protected by flagman.

MANOR

Northward track between Signal B-186 and north switch is known as track No. 1.

Southward track between Signal B-186 and north switch is known as track No. 2.

First crossover south of Signal B-187 is known as crossover "A".

Second crossover south of Signal B-187 is known as crossover "B".

Signal B-186 located on northward track 2500 feet north of Signal B-182 governs northward train movements to Signal B-187 on track No. 1 or through crossover "A" to track No. 2.

Signal B-186 is normally at stop and will clear when train is on preliminary, if no train on either track No. 1 or 2 or crossover "A" or "B" between this signal and Signal B-187.

Signal B-187 located 400 feet south of Station on track No. 2, governs southward train movements on tracks 1 and 2 and through crossovers "A" and "B" to Signal B-186.

Trains must approach these signals with caution. If signal at stop, after stopping trains may proceed with caution.

Train movements on tracks 1 and 2, between Signal B-187 and north switch must be made with caution.

Normal position of switches, crossover "A": South switch for crossover.

Normal position of switches, crossover "B": South switch for track No. 2.

Trains must use track No. 2 for making station stop.

DETOUR

Train movements Tiburon line to northward main track are governed by automatic block signal (C-126), located 300 feet south of junction switch. Trains must approach signal with caution.

Southward trains desiring to use crossover must stop before reaching signal No. 143. When north switch is lined for crossover the upper arm of signal No. 143 should indicate STOP. When both switches are lined for crossover, lower arm of signal No. 143 should indicate PROCEED. If both switches are lined for crossover and lower arm of signal No. 143 does not indicate PROCEED, train must wait not less than 5 minutes and may then proceed under protection of flagman. Normal position of junction switch is for northward main track.

OIL BUFFER SPRING SWITCHES

When making trailing point movement and train is stopped on switch a reverse movement must not be made, nor the slack taken until the switch has been thrown by hand. When movement has been completed through switch, reverse movement must not be made until point closes.

Running switches are prohibited and sand, blow-off cocks and injectors must not be used while passing over these switches.

Switches are located as follows:

- Mill Valley, Main track—Track No. 1.
- Tunnel No. 1. End of double track at each end of tunnel.
- Detour. Northward main track—Tiburon line.
- San Rafael. End of double track at Mission Street.
- Manor. North end crossover "A".

Light signal, indicating position of switch for facing point movement, is located in advance of switch. Signal at Mission Street is 115 feet distant from switch; signals at other points are from 25 to 55 feet from switch.

INTERLOCKING

Movements governed by short arm or dwarf signals must be made with caution and position of switches observed, as such signals govern movements for various routes. Whistle signal: diverging route; one short, one long, one short (o — o).

TOWER No. 1, SAUSALITO

Limits. South: indicated by signs on signals. North: northward main track, signal 56, 881 feet north of tower; southward main track, signal 47, 670 feet north of tower; Drill Track, signal 48, 670 feet north of tower; limits also indicated by signs on signals.

No operator on duty: 12:15 A.M. to 5:50 A.M. daily except Sunday and holidays. 12:15 A.M. to 6:15 A.M. Sunday and holidays.

Switches will be lined track 9 to southward main track. Rule 663 will govern movements through interlocking.

TOWER No. 2, ALMONTE

Continuous service.

TOWER No. 3, BALTIMORE PARK

No operator on duty: Midnight to 6:20 A.M. 2:20 P.M. to 3:20 P.M. 11:20 P.M. to Midnight } Daily except Saturday, Sunday and holidays
Midnight to 6:20 A.M. 10:20 P.M. to Midnight } Saturday
Midnight to 7:20 A.M. 9:20 A.M. to 5:25 P.M. 9:45 P.M. to Midnight } Sunday and holidays

Switches will be lined and locked for Sausalito-San Anselmo route, and when signals for Sausalito-San Anselmo route are at stop, trains will be governed by Rule 663. No train movements can be made to or from Detour route when operator is not on duty.

Before going off duty operators will assure themselves that all overdue trains via Detour route have passed.

TOWER No. 4, SAN ANSELMO

No operator on duty: 12:50 A.M. to 5:00 A.M. daily except Sunday and holidays 12:50 A.M. to 5:45 A.M. Sunday and holidays

Switches will be lined for San Anselmo-San Rafael route. Rule 663 will govern movements through interlocking.

Yellow signals on masts of interlocking signals govern southward movements from San Rafael and Manor routes when southward main track is occupied or obstructed within interlocking limits. On proceed indication of these signals movements may be made with caution.

TOWER No. 5, SAN RAFAEL

Continuous service.

Wigwag signals at the following street crossings are controlled and operated by towerman:

- Irwin Street, at south end of freight house.
Toll Road, second crossing south of passenger depot.
Third Street, first crossing south of passenger depot.
Fourth Street, first crossing north of passenger depot.
Mission Street, third crossing north of passenger depot.

No train or engine movements must be made upon or over any of these crossings when wigwag signals not in operation, except when movement is preceded by flagman.

Southward steam passenger trains when making stop at passenger station will block Third Street crossing.

Derrails located on Cheda Spur, 436 feet north of switch and on Grady Spur, 530 feet north of switch are connected with floodlights which illuminate track and highway. These derrails must be kept on rail and locked except when movements are being made over crossing.

Double track extends to Mission Street. Normal position of switch is for southward track.

IGNACIO

Junction switch main track and Los Guilicos line is located opposite station.

REDWOOD VALLEY AND RIDGE

Telephone Semaphore Signal: Two standard semaphore blades and electric lamps for night indications.

Electric lighting for night indications controlled by track circuit, illuminate only when main track circuit occupied 1000 feet either side of signals.

The normal position is PROCEED.

When signal indicates STOP Conductor (or engineer in case of light engine), will immediately communicate with train dispatcher by telephone.

TRAIN AND AIR INSPECTION

On freight trains, when conditions are favorable and in the judgment of conductor it is safe to do so, run may be made without stopping for inspection from one water stop to the next water stop, except that a distance of 70 miles must not be exceeded between inspections (Rule 827).

AIR BRAKE RULE 20. Attention is directed to Safety Appliance Act which requires that whenever any train is operated with power or train brakes, not less than 85 per cent of cars of such train shall have their brakes used and operated by engineer of engine drawing such train; and all power-brake cars in every such train which are associated together with 85 per cent, shall have their brakes so used and operated.

AIR BRAKE RULE 23. Air brake inspection at points where no car inspectors are on duty, and motive power and/or engine crew or train crew is changed on a freight train shall be made as follows:

After train is made up and engine attached and train has been charged to standard pressure, engineer will apply brakes with 20 pound service reduction and leave them applied. Trainmen will then pass along train to determine that brake is applied on each car. Numbers of any cars found with inoperative air brake must be reported on form 2809, and such cars assembled and switched to rear of train, next ahead of caboose before leaving that station.

If necessary to switch any cars to rear account brakes being inoperative, Rule 23 must be complied with before departure.

Rule 23 must be observed to determine by rolling inspection that each brake releases properly.

AIR BRAKE RULE 24. Rear end air test must be made by southward trains and northward freight trains at Ridge.

AIR BRAKE RULE 33. Southward trains and northward freight trains will stop at Ridge for inspection (Rule 827).

Freight trains descending grade Ridge to Redwood Valley must not exceed average of 110 Ms per operative brake; retaining valves will be turned up before leaving Ridge and must be turned down when stop is made at Redwood Valley.

Passenger trains descending grade Ridge to Laughlin; retaining valves will be turned up before leaving Ridge and must be turned down when train reaches Laughlin.

Freight trains, Ridge to M.P. 136: retaining valves must be turned up before leaving Ridge and must be turned down when train reaches M.P. 136.

When retaining valves are turned down while train is in motion, speed of train must not be more than 10 miles per hour. If, in the judgment of conductor, it is necessary to stop train to turn down retaining valves, train will be stopped.

AIR BRAKE RULE 39. Running air brake test must be made by passenger trains at Ridge.

In making running air brake test trainmen use communicating signal 16 (h) instead of hand or lamp signals.

MISCELLANEOUS

Trains between Sausalito and San Rafael will operate via Detour unless otherwise specified.

When necessary to cut off or restore current in power rail notify Alto Substation. Alto Substation may be called on Company telephone or P. T. & T. telephone, Mill Valley 1.

Engines larger than 114 Class will not clear umbrella sheds on tracks 3, 4, 5 and 6, Sausalito.

170 and 180 class engines and Southern Pacific engines are not permitted on wharf at Sausalito.

Engines are not permitted on Beet Spur at Ignacio. Engines heavier than 114 Class are not permitted on spur track at McGill.

Engines are not permitted on Carsons siding, Samoa line. Passenger trains passing station after picking up will stop at station before leaving.

Engines on passenger trains when coupling to equipment containing passengers will stop 50 feet from cars before coupling.

Engines on freight trains of 30 cars or over must be cut off at water or fuel stops. No helper engine will be placed behind wooden underframe cars or cabooses.

In no case will more than one helper engine be placed behind steel underframe cabooses.

SPEED RESTRICTIONS

Trains must not exceed the following maximum speeds (shown in miles per hour).

Table with columns: BETWEEN, Passenger, Freight. Rows: Sausalito and Willits via Detour, Willits and Eureka, Almonte and Mill Valley, Baltimore Park and Manor, San Anselmo and San Rafael.

except that maximum speeds shown below and in next column must not be exceeded.

Table with columns: Page, BETWEEN, Passenger, Frt. Rows: Through Tunnel No. 1, M.P. 11.9, Corte Madera, road crossing north of station platforms*, Greenbrae, bridge and trestle approaches, M.P. 14.6, San Rafael, within city limits*, Cerro and M.P. 19.6, Gallinas Drawbridge, M.P. 20.9, Petaluma Drawbridge, M.P. 37.2, Petaluma, within city limits*, North switch Cotati-South switch Wilfred, Santa Rosa, within city limits*, Baltimore Park, through switches to or from Detour, Larkspur, road crossing north of station platforms*, Kentfield, road crossing south of station platforms*.

SPEED RESTRICTIONS—Continued

Table with columns: Page, BETWEEN, Passenger, Frt. Rows: Ross, road crossing north of station platforms*, Bolinas Ave., Road Crossing south of station platforms*, Tiburon and Detour, Hilarita, highway crossing, M.P. 7.9, Healdsburg, within city limits*, Cloverdale, within city limits*, M.P. 87.6 and Fountain, Curves, Tangent, Fountain and El Roble, Curves, Tangent, Ukiah, within city limits*, M.P. 118 and M.P. 120, Redwood Valley and Laughlin, Redwood Valley and M.P. 136.7 (Ascending grade), Redwood Valley and M.P. 136.7 (Descending grade), Laughlin and M.P. 136.7 (Ascending grade), Laughlin and M.P. 136.7 (Descending grade), M.P. 136.7 and Willits, Ignacio and Yulupa, Black Point Drawbridge, M.P. 28.8, Black Point Drawbridge trestle approaches, Wingo Drawbridge, M.P. 37.8, Yulupa and Los Guilicos, Sonoma, within city limits*, North portal Tunnel 27 and 1000 feet north thereof, M.P. 196 and M.P. 196 pole 4, Willits and M.P. 231.5—Curves, M.P. 231.5 and M.P. 240—Curves, M.P. 240 and M.P. 256.3—Curves, M.P. 258 and Eureka—Curves, Scotia Bluff, M.P. 256.3-M.P. 258.0, Elk River, Bulkhead, Holmes Eureka Bucksport Mill Yard crossing at Gregg Street, 'A' and 'L' Streets, Eureka, 'L' Street, Eureka and south end Eureka Slough Drawbridge*, Eureka Slough Drawbridge, M. P. 285.6, Eureka and Arcata, Arcata and Korblex, A&MR R. R. Crossing M. P. 291.8, A&MR R. R. Crossing M. P. 292.9, Arcata and Samoa, Alton and Carlotta, Curves, Tangent.

*Maximum speeds fixed by city ordinance.

The speeds shown are maximum speeds allowed on straight track. Good judgment and care must be used on sharp curves and trains must be moved at lower speeds as may be necessary.

Trains moving steam shovels, ditchers, cranes, spreaders, pile drivers, and derricks, must not exceed 25 miles per hour.

Maximum speed of disabled engines hauled in train or running under own steam must not exceed 20 miles per hour.

Through crossovers and turnouts: 10 miles per hour, except that northward trains must not exceed 15 miles per hour in passing over switches at either end of tunnel No. 1, M.P. 11.9, and trains and engines must not exceed 25 miles per hour through switch of Pacific Lumber Co.'s connection north end Scotia yard.

Trains must approach and pass over drawbridge at Wingo with caution maintaining lookout for pedestrians and vehicles.

Trains approach road crossing north end of depot at Vineburg with caution. Maximum speed of engines running backward between Laughlin and M.P. 136.7, 12 miles per hour; other locations, 20 miles per hour, except where slower speeds are specified.

Between M.P. 271.76, 1000 feet south of south portal tunnel No. 40, and M.P. 272.52, 1000 feet north of north portal tunnel No. 40, trains must not exceed the following speeds:

Table with columns: Passenger, Freight, Trains handling logs. Values: 20 miles per hour, 15 miles per hour, 10 miles per hour.

Trains loaded with logs must not exceed a maximum speed of 20 miles per hour between Eureka and Scotia; 15 miles per hour between Alton and Carlotta and north of Eureka, except that at the following locations a maximum speed of 10 miles per hour must not be exceeded:

Table with columns: Location, M.P. Values: Tunnel No. 38, M.P. 243.7; Tunnel No. 39, M.P. 247.0; Van Duzen Bridge, M.P. 261.8; Tunnel No. 40, M.P. 271.9.

Maximum speeds for freight trains apply to log trains having no cars loaded with logs. Continued on following page

SPEED RESTRICTIONS—Continued

Speeds shown are the maximum speeds permitted. Slower speeds must be run when otherwise provided for and when conditions make a slower speed advisable.

It is particularly important in the movement of log trains before reaching tunnel No. 40, at M.P. 271.9, and in passing through this tunnel that every precaution be taken against moving an improper load, logs being displaced or falling from car, derailment or an accident of any nature because of the character of construction of the tunnel and its limited clearance.

Northward trains hauling cars loaded with logs must be inspected at Carlotta, Alton, Fernbridge and Eureka. Doubling trains will double from Loleta and must be inspected at that point instead of Fernbridge. Southward trains must be inspected at Freshwater Jet. and Eureka, and doubling trains will double from Beatrice and must be inspected at that point. When trains do not double they will be inspected at South Bay, where stop will be made for this purpose.

Rear car on train and on cut in doubling must be equipped with Conductor's valve or tail hose.

Trainmen and enginemen must maintain sharp lookout over train and stop train if necessary to do so.

Special attention must be given to inspection of loads and chocks. If there is any doubt as to whether a load will move safely it must not be moved, and if it is in train it must be set out.

ADDITIONAL SIDINGS, SPURS AND FLAG STOPS

Table with 5 columns: Location, Mile Post, Switch Connection, Car Capacity, Flag Stop for Passengers. Lists locations from SAUSALITO TO KORBLEX to Associated Oil Company.

ADDITIONAL SIDINGS, SPURS AND FLAG STOPS—Continued

Table with 5 columns: Location, Mile Post, Switch Connection, Car Capacity, Flag Stop for Passengers. Lists locations from Press to Lawndale.

HOSPITAL DEPARTMENT

Table with 3 columns: NAME, TITLE, LOCATION. Lists hospital staff members and their roles and locations.

HOSPITALS: Southern Pacific General Hospital, Baker and Fell Streets, San Francisco. Phone Fillmore 5781.

St. Joseph Hospital, Eureka. Emergency Hospitals, San Rafael, Petaluma, Santa Rosa and Willits. NOTE:—Emergency surgeons should be summoned only for temporary treatment when prompt attention is required and when patients cannot be sent to or await arrival of District Surgeon.

WEIGHT OF PASSENGER CARS

Table with 4 columns: CLASS, NUMBERS, WOOD, STEEL. Lists weights for various passenger car classes like Baggage, Business, Chair, Coach, Mail and Express, and Rail Cars.

*Steel Underframe.

SOUTHERN PACIFIC AND PULLMAN

Table with 4 columns: Class, All Steel, Steel Under-frame, Wood. Lists weights for various Southern Pacific and Pullman equipment like Baggage, Coaches, Diners, etc.

ADDITIONAL WATER STATIONS

Table with 2 columns: Station Name, Mile Post. Lists Stony Creek, Hamann Gulch, Steelhead, and Water Tank.

LOCATION OF ADDITIONAL TELEPHONES

Table with 2 columns: Location, Telephone Details. Lists locations like Shop Switch, Waldo, Alto Substation, etc., and their corresponding telephone information.

ADDITIONAL FUEL STATIONS

Santa Rosa—emergency only.

LOCOMOTIVE TONNAGE RATING IN Ms BACK OF TENDER

CLASSIFICATION	ENGINE	Boller Pressure	TIBURON and SAN RAFAEL	SAN RAFAEL 4th Street to GOLF	SAN RAFAEL Irwin St. to GOLF	PETALUMA to HEALDSBURG	HEALDSBURG to CLOVERDALE	CLOVERDALE to REDWOOD VALLEY	REDWOOD VALLEY to RIDGE	WILLITS to RIDGE	REDWOOD VALLEY to GOLF	GOLF to SAN RAFAEL	SAN RAFAEL and SAN ANSELMO	DETOUR and SAUSALITO	WILLITS to LOLETA	LOLETA to BEATRICE	BEATRICE to EUREKA	EUREKA to BEATRICE	BEATRICE to LOLETA	LOLETA to WILLITS
E 69-18/24-79	23	180	Ms. 1000	Ms. 540	Ms. 570	Ms. 1600	Ms. 1375	Ms. 1000	Ms. 315	Ms. 450	Ms. 2470	Ms. 750	Ms. 550	Ms. 825	Ms. 2450	Ms. 1640	Ms. 2450	Ms. 2450	Ms. 1130	Ms. 1640
T 57-19/26-110	108	180	1750	890	930	2750	2270	1750	540	920	3660	1475	1000	1400	3650	2200	3650	3650	1750	2480
T 57-19/26-105	109	180	1750	890	930	2750	2270	1750	540	920	3660	1475	1000	1400	3650	2200	3650	3650	1750	2480
T 57-19/26-110	111-114	180	1750	890	930	2750	2270	1750	540	920	3660	1475	1000	1400	3630	2200	3630	3630	1730	2480
T 63-20/28-132	134-135	200	2000	1000	1070	3200	2720	2000	600	1050	4400	1735	1100	1680	4300	2600	4300	4300	2300	2900
T 63-20/28-135	136-143	200	2000	1000	1070	3200	2720	2000	600	1050	4400	1735	1100	1680	4300	2600	4300	4300	2300	2900
T 57-21/28-142	170	190	2000	1080	1160	3200	2720	2000	680	1130	4500	1885	1100	1680	4580	2800	4580	4580	2500	3120
T 57-21/28-142	171-172	190	2000	1080	1160	3200	2720	2000	680	1130	4500	1885	1100	1680	4580	2800	4580	4580	2500	3120
T 63-21/28-141	178	200	2210	1140	1220	3535	3005	2210	700	1190	4830	1925	1215	1855	4800	3250	4800	4800	2240	3250
T 63-20/28-142	179	200	2000	1000	1070	3200	2720	2000	600	1050	4400	1735	1100	1680	4300	2600	4300	4300	2300	2900
T 57-21/28-148	180-184	200	2630	1190	1280	3900	3315	2630	730	1250	4900	2200	1340	2045	5040	3250	5040	5040	2900	3500
P 68-24/26-157	SP 3100-3109	180	2210	1140	1220	3535	3005	2210	680	1190	4830	1925	1215	1855	4800	3250	4800	4800	2240	3250
C 57-22/30-194	SP 2514-2819	210	3261	1475	1587	4836	4110	3261	905	1550	6076	2728	1661	2535	6250	4030	6250	6250	3598	4340
Allowance for Empty and Underloaded Cars	Ms.	Less than 40 Ms. 40 to 50 Ms.	6 Ms. 3 Ms.	3 Ms. 0	3 Ms. 0	6 Ms. 3 Ms.	6 Ms. 3 Ms.	6 Ms. 3 Ms.	3 Ms. 0	3 Ms. 0	6 Ms. 3 Ms.	3 Ms. 0	6 Ms. 3 Ms.	6 Ms. 3 Ms.	6 Ms. 3 Ms.	6 Ms. 3 Ms.	6 Ms. 3 Ms.	6 Ms. 3 Ms.	3 Ms. 0	6 Ms. 3 Ms.

CLEARANCE LIMITS FOR CAR LOADING

BETWEEN	HEIGHT ABOVE TOP OF RAIL AT WIDTHS STATED											MAXIMUM HEIGHT	MAXIMUM WIDTH
	WIDTH	2' 6"	5'	7'	8' 6"	9' 6"	10'	10' 6"	11'	11' 6"	12'		
Sausalito and Corte Madera	HEIGHT	15' 5"	15' 5"	15' 4"	14' 7"	14' 2"	13' 11"	13' 6"	12' 11"	12' 3"	11' 3"	15' 5"	12'
Tiburon and Cerro	HEIGHT	19' 10"	18' 11"	18' 1"	17' 3"	16' 8"	16' 4"	16'	15' 8"	15' 2"	14' 10"	19' 10"	12'
Cerro and Ignacio	HEIGHT	22'	22'	22'	22'	21' 9"	21' 6"	21' 3"	21'	20' 10"	20' 8"	22'	12'
Ignacio and Petaluma	HEIGHT	20' 6"	20' 6"	20' 6"	19' 9"	19' 3"	19' 1"	18' 10"	18' 7"	18' 4"	18' 2"	20' 6"	12'
Ignacio and Los Guilicos	HEIGHT	22'	22'	21' 11"	21' 1"	20' 7"	20' 4"	20'	19' 9"	19' 6"	19' 2"	22'	12'
Fulton and Thorn	HEIGHT	20' 3"	20' 3"	19' 10"	19' 3"	18' 10"	18' 9"	18' 6"	18' 4"	18' 1"	17' 11"	20' 3"	12'
Thorn and Willits	HEIGHT	16'	15' 8"	15' 6"	14' 10"	14' 1"	13' 7"	13'	12' 8"	12' 3"	11' 8"	16'	12'
Willits and Shively	HEIGHT	19' 10"	19' 10"	19' 4"	18' 6"	18' 2"	17' 10"	17' 6"	17' 3"	16' 10"	16' 7"	19' 10"	12'
Shively and Loleta	HEIGHT	18' 5"	18' 3"	17' 6"	17'	16' 7"	16' 5"	16' 3"	16' 1"	15' 10"	15' 3"	18' 5"	12'
Loleta and Eureka	HEIGHT	16' 2"	15' 4"	14' 11"	14' 5"	14' 1"	13' 10"	13' 2"	12' 6"	11' 9"	8' 0"	16' 2"	12' 0"
Eureka and Korblex	HEIGHT	22'	22'	22'	22'	21' 10"	21' 7"	21' 3"	21'	20' 9"	20' 6"	22'	12'
Arcata and Samoa	HEIGHT	22'	22'	22'	22'	22'	22'	22'	22'	22'	22'	22'	12'

Clearances are figured with side clearances 6 inches margin (each side) overhead clearance 6 inches margin.

SPEED TABLE

Miles per Hour	1 Mile in Min. Sec.	Miles per Hour	1 Mile in Min. Sec.	Miles per Hour	1 Mile in Min. Sec.	Miles per Hour	1 Mile in Min. Sec.
6	10	21	2.51	31	1.56	41	1.27
8	7.30	22	2.43	32	1.52	42	1.25
10	6	23	2.36	33	1.49	43	1.23
12	5	24	2.30	34	1.45	44	1.21
15	4	25	2.24	35	1.42	45	1.20
16	3.45	26	2.18	36	1.40	46	1.18
17	3.31	27	2.13	37	1.37	47	1.16
18	3.20	28	2.8	38	1.34	48	1.15
19	3.9	29	2.4	39	1.33	49	1.13
20	3	30	2.0	40	1.30	50	1.12

Restrictions for cars with outside truss rods, when moving in interurban electric territory—(San Rafael, Mill Valley, Sausalito, Manor and points between)—owing to danger of contact with power rail supplying electric current:

22 inches or over outside gauge of rail must be 14 inches above rail.

MAXIMUM LOCOMOTIVE WEIGHTS AND CAR LOADING PERMISSIBLE OVER DISTRICTS SHOWN

DISTRICT	LOCOMOTIVE	Gross Carload Pounds
Sausalito to Willits	Any Locomotive	169,000
Tiburon to Detour		
Ignacio to Sonoma	NWP Locomotives	169,000
Almonte to Mill Valley		
Baltimore Park to Manor and San Rafael via San Anselmo	114	169,000
Sonoma to Los Guilicos		
Willits to Eureka	142	169,000
Eureka to Arcata		
Alton to Carlotta	170	169,000
Arcata to Samoa and Korblex	142	169,000

P. G. MATSON,
Chief Train Dispatcher,
Sausalito, Cal.

Train Dispatchers
W. M. BALDOCK
C. S. MAHAFFEY
W. V. HARDESTY
G. E. NIVISON
Sausalito, Cal.

R. D. SHUGRUE,
Trainmaster,
Sausalito, Cal.

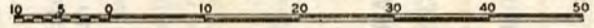
J. F. LAUX,
Trainmaster,
Santa Rosa, Cal.

A. C. HENNINGSEN,
Acting Trainmaster,
Eureka, Cal.

MAP OF THE LINES OF THE NORTHWESTERN PACIFIC RAILROAD COMPANY

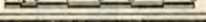
RMH

SCALE IN MILES



EUREKA AND VICINITY

SCALE IN MILES



SAUSALITO AND ADJACENT TERRITORY

SCALE IN MILES

