

NORTHERN PACIFIC RAILWAY COMPANY.

TACOMA DIVISION

TIME 36 TABLE

In Effect at 12:01 A. M. Pacific or 120th Meridian Time.

MONDAY, January 1st, 1912.

For the Government of Employees only. The Company reserves the right to vary therefrom at pleasure. Be positive that you have the Current Time Table and destroy all previous numbers. Read carefully the Special Rules and always have for reference a copy of TRANSPORTATION RULES.

H. C. NUTT,
General Manager.

I. B. RICHARDS,
General Superintendent.

P. H. McCAULEY,
Superintendent of Transportation.

W. C. ALBEE,
Superintendent.

T. E. COYLE,
Assistant Superintendent.

C. E. McMULLIN,
Superintendent Tacoma Terminals.

J. C. ROTH,
Assistant Superintendent of Transportation.

Westward.

FIRST SUBDIVISION
MAIN LINE

THIRD CLASS.				SECOND CLASS		Station Numbers	Time Table 36 Succeeding No. 35A January 1, 1912.	Distance from Tacoma Wharf	FIRST CLASS.																	
973	963	997	965	691	679				355	363	301	389	361	321	307	357	391	311	369	333	365	359	313	323	393	
EXCEPT SUNDAY	EXCEPT SUNDAY	DAILY	EXCEPT SUNDAY	DAILY	DAILY				DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY
Nor. Pac. Way Freight	Nor. Pac. Way Freight	Gt. Nor. Way Freight	Nor. Pac. Way Freight	O.-W. R. & N. Freight	Nor. Pac. Freight	Station Numbers	STATIONS. Telegraph Offices and Calls		Gt. Nor.	O.-W. R. & N. Portland Express	Nor. Pac. Portland Express	Nor. Pac. Zacolt Passenger	O.-W. R. & N. Portland Passenger	Nor. Pac. Grays Harbor Limited	Nor. Pac. Portland Passenger	Gt. Nor.	Nor. Pac. South Bend Passenger	O.-W. R. & N. Shasta Limited	O.-W. R. & N. Ore-Wash Express	Nor. Pac. Evergreen Limited	Nor. Pac. Grays Harbor Passenger	Gt. Nor.	Nor. Pac. Portland Special	Nor. Pac. Grays Harbor Express	Nor. Pac. South Bend Limited	
L 7.00AM	L 7.00AM	L 4.50AM	L 5.10AM	L 9.30PM	L 9.00PM	1976	TACOMA WHARF... 1.4	0.0																		
	7.45	5.15 364 302	5.50 364-302 -360	10.00 334-356	9.45 334-356	1977	TACOMA... DN 4.5	1.4	L12.01AM	L12.45AM	L 1.40AM		L 8.55AM	L 9.00AM	L 9.45AM	L11.30AM		L12.50PM	L 1.10PM	L 1.40PM	L 1.50PM	L 5.05PM	L 5.30PM	L 6.00PM		
	8.00	5.30 5.35	6.10AM	10.15	10.00	1981	SU...SOUTH TACOMA 3.7	5.9	12.15	1.00	1.55		9.09	9.15	10.00	11.45 964		1.04	1.24 362	1.55 362	2.05	5.19	5.44	6.15		
	8.15	5.65	See page 3	10.35	10.15	1985	VA...LAKEVIEW... DN 5.0	9.6	12.28	1.07	2.08		9.14	9.20AM	10.07	11.55AM 366		1.10 362	1.80	2.05	2.15PM 358	5.25	5.50	6.23PM		
	8.35	6.15		10.55	10.38	1980	HI...HILLHURST... DN 6.1	14.6	12.32	1.16	2.10		9.22	See page 3	10.16	12.05PM 308		1.17	1.88	2.17 998 358	5.32	5.57	See page 3			
	8.55 964	6.80		11.15	10.44	1998	RY...ROY... DN 5.5	20.6	12.45	1.80	2.21 680		9.33 964		10.29 964	12.15		1.25 998	1.49 998	2.80		5.42	6.05			
	9.25	6.50		11.35	11.05	2002	YA...YELM... DN 5.4	26.1	12.55	1.40 680	2.31 692		9.48		10.39	12.25 998		1.88	1.58 358	2.40 314		5.50	6.12 370			
	9.54 11.40 998 361 307 308	7.05		11.50PM	11.19	2007	RA...RAINIER... DN 4.3	31.5	1.05 680	1.50	2.41		9.54		10.50	12.36 362		1.42 358	2.10	2.50		5.58 370	6.20			
	11.59AM 362	7.20 7.45		12.01AM 680	11.31	2011	JS...McINTOSH... D 4.6	35.8	1.18	1.58 692	2.48		10.02 963		10.58 963	12.47		1.48	2.18 314	2.56		6.08	6.27 312			
	12.80PM	8.00		12.10	11.41PM	2015	NO...TENINO... DN 3.4	40.4	1.23 692	2.05	2.55		10.09		11.09 998 308	12.57		1.56 314	2.27	3.03		6.09 312	6.35			
						2020	B...BUCODA... DN 5.1	43.8	1.30	2.18	3.00		10.14		11.15	1.05		2.01	2.88	3.10		6.14	6.40			
						2025	WABASH... DP 1.8	48.9																		
	L 5.80AM	A 1.00PM	8.20 9.00	12.80 1.00	12.05AM 12.30	2027	CN...CENTRALIA... DN 4.1	50.7	1.45	2.30	3.15		10.29		11.35	1.28	L12.05PM	2.15	2.48	3.25		6.27	7.00		L 7.25PM	
	6.00		9.30	1.15	12.45	2031	CH...CHEHALIS... DN 1.0	54.8	2.00	2.40	3.25		10.40		11.50AM	1.35	12.25	2.25	3.00	3.35		6.37	7.15		7.45	
						2032	CHEHALIS JCT... 6.4	55.8										A12.30PM				6.40 394			A 7.50PM	
	7.00		10.10	1.55	1.15	2038	NA...NAPAVINE... DN 6.3	62.2	2.20	3.00	3.45		11.00		12.10PM	1.65	See page 6	2.45	3.16	3.55		6.55	7.35		See page 6	
	8.00		10.40	2.10	1.80	2044	WI...WINLOCK... DN 6.4	68.5	2.35	3.15	4.00		11.18		12.25	2.08		2.55	3.28	4.07		7.06	7.45			
	8.30		11.02 362 974	2.25 302	1.43 364	2050	PN...SOPENAH... DN 2.4	74.9	2.52 360	3.31	4.14		11.26 362-974		12.40 358	2.20		3.05	3.88	4.20 370		7.17	7.57 356			
	9.00		11.10	2.35 2.40 360	1.55 2.00 302	2053	OLEQUA... P 2.8	77.3	3.00	3.37	4.20		11.38		12.47 314	2.26		3.10	3.45	4.25		7.25 356	8.03			
	9.10 308		11.16	2.47	2.04 360		COWLITZ... DN 4.6	80.1	3.04	3.41	4.24		11.37		12.51	2.30		3.13	3.49 370	4.29		7.29	8.07			
	10.15		11.35AM 12.15PM 361	3.04 4.58	2.20	2060	CA...CASTLE ROCK... DN 6.3	84.7	3.20 691	3.55 691	4.35 691		11.48AM 997		1.07	2.40		3.21	4.00	4.37		7.40	8.17			
	10.35		12.30	5.15	2.42	2066	OSTRANDER... 3.7	91.0	3.37	4.12	4.49		12.08PM		1.22	2.52		3.32	4.16	4.48		7.55	8.28			
	11.30		1.00	5.25	3.00	2071	KS...KELSO... DN 5.7	94.7	3.45	4.21	4.58		12.15		1.31	3.00		3.38	4.26	4.56		8.08	8.34			
	11.45		1.15	5.40	3.15	2077	CX...CARROLLS... 4.4	100.4	4.00	4.37	5.10		12.30		1.45	3.12		3.45	4.36	5.05		8.15	8.45			
	11.55AM 12.45PM 301		1.30 2.00	5.55	3.35	2081	KA...KALAMA... DN 4.3	104.8	4.15	4.50	5.20		12.42 973		1.55	3.20		3.55	4.50	5.15		8.25	8.55			
	1.00		2.15	6.06	4.00	Cx 4	MARTIN'S BLUFF... 4.8	109.1	4.25	5.01	5.81		12.52		2.04	3.28		4.08	4.58	5.23		8.35	9.04			
	1.25		2.40	6.20	4.15	Cx 9	WD...WOODLAND... DN 6.0	113.9	4.36	5.11	5.44		1.02		2.14	3.38		4.13	5.08	5.33		8.45	9.14			
	1.50		3.05	6.35	4.31	Cx 15	RG...RIDGEFIELD... DN 5.6	119.9	4.49	5.26	5.56		1.16		2.26	3.49		4.25	5.22	5.45		8.58	9.25			
	2.10		3.25	6.50	4.46	Cx 21	KNAPPS... 2.3	125.5	5.02	5.40	6.07		1.30		2.37	3.59		4.36	5.35	5.55		9.12	9.37			
	2.25		3.35	6.56	4.52	Cx 23	FELIDA... P 2.8	127.8	5.08	5.45	6.18		1.35		2.43	4.04		4.40	5.40	6.00		9.17	9.42			
	2.35		3.45	7.05	5.00	Cx 25	VANCOUVER JCT... P 3.1	130.6	5.15	5.50	6.20		1.42		2.50	4.08		4.45	5.45	6.05		9.25	9.48			
	A 2.50PM		A 4.00PM	7.15	5.15 5.45 355	Cx 29	MX...VANCOUVER... DN 2.3	133.7	5.25AM 679	6.00	6.30		1.52		3.00	4.15PM		4.54	5.58	6.15		9.35PM	9.55			
				A 7.30AM	5.55		No. Portland Junction... DN 0.6	136.0		6.10AM	6.38		2.00PM		3.08			5.00PM	6.00PM	6.28			10.03			
					6.00		ST. JOHNS... DN 2.6	136.6			6.41				3.11				6.26				10.05			
					6.15	Y	WILLBRIDGE... DN 0.5	139.2			6.46				3.16				6.31				10.08			
					6.16		BEATTY... 2.9	139.7			6.47				3.17				6.32				10.10			
					6.26		CITY LIMITS... DN 1.1	142.6			6.53				3.23				6.38				10.18			
					A 6.45AM	W C S T	VC...PORTLAND... DN 143.7	143.7			7.00AM				3.30PM				6.45PM				A10.30PM			
	EXCEPT SUNDAY	EXCEPT SUNDAY	DAILY	EXCEPT SUNDAY	DAILY	DAILY	Time Over Subdivision		5.24	5.25	5.20	.13	5.05	.20	5.45	4.45	.25	4.10	4.50	5.05	.25	4.30	5.00	.26	.25	
	8.7	8.4	11.6	9.6	13.3	14.8	Average Speed per Hour		24.6	24.9	26.9	14.3	26.6	24.6	24.8	27.6	12.2	32.6	26.9	27.5	19.6	29.5	28.6	18.9	12.2	

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.

Maximum speed of passenger trains is one minute or sixty seconds per mile. This limit must not be exceeded. Double track between Tenino and Sopenah and from Cowlitz and Vancouver, except single track from the west end of station platform at Centralia to a point 1,700 feet west thereof, and the single track across Lewis River Bridge, three miles east of Ridgefield. See page 6 for Special Rules governing. Trains using track between Vancouver and Portland will provide themselves with current time table of S. P. S. Ry. and be governed by instructions issued by Superintendent of S. P. & S. Ry. at Vancouver. Trains will provide themselves with current time tables of the Northern Pacific Terminal Co. and be governed by special rules therein while in Portland yard. Trains will be governed by Special Rules of Tacoma Terminal Division between Tidewater and a point two and one-half (2 1/2) miles west of South Tacoma. See page 10 for rules. SEE SPECIAL RULES, PAGES 6, 9 AND 10

FIRST SUBDIVISION. MAIN LINE.

Eastward.

Table with columns for train numbers (356-364), classes (First Class, Second Class, Third Class), departure times, and stations. Includes sub-headers like 'FIRST CLASS.', 'SECOND CLASS.', 'THIRD CLASS.' and 'STATIONS.'.

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.

Automatic Block.—Between Half Moon Yard, Tacoma and South Tacoma, and between Kalama and Vancouver. Manual Block.—Between South Tacoma and Kalama. Registering Stations.—Tacoma Yard Office, Tacoma Union Station, South Tacoma, Tenino, Crntralia, Sopenah, Cowlitz, Vancouver and Portland. Chehalis is registering station for South Bend Branch trains only. Bulletin Stations.—Tacoma Yard Office, Tacoma Union Station, Centralia, Vancouver, Portland.

SEE SPECIAL RULES PAGES 6, 9, AND 10.

Eastward

SECOND SUBDIVISION
GRAY'S HARBOR LINE

Time Table No. 36
Succeeding No. 35A.
January 1, 1912

STATIONS. Telegraph Offices and Calls	Distance from Moclips	FIRST CLASS					SECOND CLASS.					THIRD CLASS				
		372	366	380	324	322	588	586	694	696	978	968	966			
		O-WRR&N Passenger	Nor. Pac. Passenger	C.M.&P.S. Passenger	Nor. Pac. Passenger	Nor. Pac. Passenger	Nor. Pac. Mixed	Nor. Pac. Mixed	Nor. Pac. Freight	O-WRR&N Way Frt.	C.M.&P.S. Freight	Nor. Pac. Way Frt.	Nor. Pac. Way Frt.			
VA..... LAKEVIEW DN 2.3	115.6		A 12.01PM		A 3.55PM	A 7.55PM										
..... COUNTRY CLUB 0.6	113.3		f 11.54AM		f 3.47	7.51										
..... AMERICAN LAKE 1.4	112.7		11.53		3.46	7.50										
..... COSGROVE 3.7	111.3		f 11.51		f 3.43	7.45										
D..... DU PONT D 4.5	107.6		s 11.46		s 3.35	f 7.37										
..... SHERLOCK 5.4	103.1		s 11.32		s 3.22	7.21										
..... UNION MILL 1.6	97.7		s 11.20		s 3.09	7.10										
..... LACEY P 5.0	96.1		s 11.17		s 3.05 365	7.07 323										
OY..... OLYMPIA D 0.7	91.1		s 11.05		s 2.50	s 6.55										
PT. TOWNSEND SOUTHERN C'G. 4.7 (Track Connection)	90.4															
..... BELMORE P 6.5	85.7		f 10.47		f 2.34	6.40										
RK..... LITTLE ROCK D 1.3	79.2		s 10.35 321		s 2.20	6.28										
..... BORDEAUX JUNCTION 1.9	77.9		10.28		2.17	6.26										
..... MIMA 4.1	76.0		f 10.25		2.14	6.23										
HK..... GATE D 4.9	71.9		10.15 s 10.10		s 2.05 2.00	s 6.15 6.10			See page 5 A 10.10PM			See page 5 A 1.30PM				
OX..... OAKVILLE D 6.9	67.0		s 10.00		s 1.45 967	s 6.03			9.52			s 1.15 1.00 967				
..... LYLE 1.1	60.1		9.42		1.27	5.52			9.24			f 12.25				
OR..... PORTER D 6.5	59.0		s 9.39		s 1.25	f 5.50			9.21			s 12.20PM				
EF..... ELMA D 2.5	52.5		s 9.22		s 1.09	s 5.41			8.55 8.50 323			s 11.53AM 11.15 321				
..... MACKS 1.2	50.0		f 9.14		f 1.01	5.37			8.38			f 11.00				
SP..... SATSOP D 5.6	48.8		s 9.10		s 12.58	f 5.35			8.35			s 10.50				
MO..... MONTESANO D 8.6	43.2		s 8.55		s 12.45	s 5.25 365			8.20			s 10.30				
..... ABERDEEN JCT P 3.1	34.6		8.35		12.25 321	5.07 967			A 1.15PM	7.55		s 9.40				
SA..... ABERDEEN D 3.5	31.5	A 8.05AM	s 8.25 585	L 8.50AM	s 12.15	s 5.00			L 1.00PM 321	7.30	A 7.55AM	A 8.20PM	s 9.10			
HO..... HOQUIAM D 3.3	28.0	L 7.50AM	s 8.10	L 8.35AM	L 12.01PM	L 4.45PM			A 1.45PM	L 7.00PM	L 7.30AM	L 8.00PM	L 8.45AM 380			
..... GRAYS HARBOR CITY 4.7	24.7		f 7.47						f 1.25							
..... GRAY GABLES 1.4	20.0		f 7.34						f 1.05							
..... CHENOIS CREEK 3.2	18.6		f 7.26						f 12.58							
..... TULIPS P 3.2	15.4		f 7.20						f 12.48							
..... COPALIS CROSSING 2.7	12.2		f 7.08						f 12.30							
..... KUHN 0.4	9.5		f 7.01						f 12.26							
..... McGLAUFLLIN 1.2	9.1		f 6.59						f 12.24							
..... ONSLOW 1.8	7.9		f 6.55						f 12.20							
..... STEARNSVILLE 1.9	6.1		f 6.50						f 12.12							
..... ALOHA 1.8	4.2		f 6.42						f 12.04PM							
..... PACIFIC 1.4	2.4		s 6.36						f 11.58AM							
..... SUNSET BEACH 1.0	1.0		f 6.33						f 11.50							
MC..... MOCLIPS D 0.0	0.0		L 6.30AM						L 11.45AM							
Time Over Subdivision		.15	5.31	.15	3.10	3.20			.15	3.10	.25	.40	5.10	3.19		
Average Speed per Hour		14.0	20.9	14.0	27.7	26.3			14.0	12.04	13.8	8.3	11.5	8.5	7.3	

No. 587 has right over No. 588 Hoquain to Moclips

See page 5

See page 5

Registering Stations.—Lakeview, Olympia, Gate, Elma, Aberdeen Junction, Aberdeen, Hoquiam and Moclips. EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION. SEE SPECIAL RATE S, PAGE 6. Maximum speed of passenger trains is one minute or sixty seconds per mile. This limit must never be exceeded.

Westward.

THIRD SUBDIVISION
(GATE LINE)

Eastward.

THIRD CLASS.	SECOND CLASS.	FIRST CLASS.				Water, Fuel, Scales, Turntables & Wyes	Station Numbers	Distance from Centralia	Time Table No. 36 Succeeding No. 35A January 1, 1912.		Distance from Gate	Car Capacity of Sidings	FIRST CLASS.				SECOND CLASS.	THIRD CLASS.
967	693	387	385	383	381				STATIONS.	382			384	386	388	694	968	
Way Freight	Freight	Passenger	Passenger	Passenger	Passenger	Telegraph Offices and Calls	Passenger	Passenger	Passenger	Passenger	Freight	Way Freight						
EXCEPT SUNDAY	EXCEPT MONDAY	DAILY	DAILY	DAILY	DAILY		DAILY	DAILY	DAILY	DAILY	EXCEPT SUNDAY	EXCEPT MONDAY						
L 9.15 AM 381	L 1.00 AM	L 7.25 PM 386	L 3.30 PM 384	L 10.45 AM	L 9.00 AM 967	WC YS	2027	0.0	CN.....CENTRALIA.....DN 1.5	13.0	170	A 11.00 AM	A 3.00 PM 385	A 6.55 PM 387	A 8.55 PM	A 11.30 PM	A 2.30 PM	
								1.5	O.-W. R. & N. CO. CROSSING.. No Track Connection 1	11.5								
s 9.30	2.00	7.84	8.84	10.48 382	9.04			1.6	BLAKESLEE..... 4.2	11.4		10.48 383	2.51	6.48	8.47	11.05	s 2.20	
s 9.55	2.15	s 7.45	s 8.45	s 10.55	f 9.20	CK 51	5.8	7.2	GRAND MOUND..... 4.2	7.2	90	s 10.40	s 2.41	s 6.35	s 8.38	10.55	s 2.05	
s 10.16 11.15 383 382	2.40	s 7.55	s 8.55	s 11.05 967	f 9.38	CK 47	10.0	3.0	RH.....ROCHESTER.....D 0.5	3.0	75	s 10.30 967	s 2.27	s 6.25	s 8.30	10.40	s 1.45	
								10.5	C. M. & P. S. CROSSING..... No Track Connection 2.5	2.5								
A 11.45 AM	A 3.00 AM	A 8.05 PM 388	A 4.10 PM	A 11.15 AM	A 9.45 AM	WY CK 44	13.0	0.0	HK.....GATE.....D	0.0	50	L 10.20 AM	A 2.15 PM	L 6.15 PM	L 8.20 PM 387	L 10.30 PM	L 1.30 PM	
EXCEPT SUNDAY	EXCEPT MONDAY	DAILY	DAILY	DAILY	DAILY							DAILY	DAILY	DAILY	DAILY	EXCEPT SUNDAY	EXCEPT MONDAY	
2.30	1.20	.40	.40	.30	.45				Time Over Subdivision			.40	.40	.35	.55	1.00		
5.2	9.7	19.5	19.5	26.0	17.3				Average Speed per Hour			19.5	19.5	19.5	22.3	14.1	13.0	

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.

Registering Stations.—Centralia and Gate.
Bulletin Stations.—Centralia.
Standard Clock.—Centralia.
Yard Limit Sign.—Centralia and Blakeslee. Yard limits at Centralia extend to a point 3,800 feet west of the west switch at Blakeslee.
When No. 382 and 383 meet at Blakeslee, No. 382 will take siding.
No. 381 has right over No. 382. No. 383 has right over No. 384. No. 385 has right over No. 386. No. 387 has right over No. 388, Centralia to Gate.
No. 381 will turn on the Wye on arrival at Gate.
The maximum speed of passenger trains is one minute or sixty seconds per mile. This limit must never be exceeded.

Westward.

FIFTH SUBDIVISION
(OCOSTA BRANCH)

Eastward.

SECOND CLASS		Time Table No. 36 Succeeding No. 35A January 1, 1912.		SECOND CLASS.	
583	581	STATIONS.		582	584
Mixed	Mixed	Telegraph Offices and Calls		Mixed	Mixed
Wednesday Saturday	EXCEPT SUNDAY			EXCEPT SUNDAY	Wednesday Saturday
	L 1.15 PM	Y	CM 37	0.0	.....ABERDEEN JCT..... 0.8
	s 1.18			0.8	.....JUNCTION CITY..... 0.6
	1.20		CR 1	1.4	.....COSMOPOLIS JCT..... 1.6
L 1.35 PM	A 1.30 PM	W	CG 2	3.0	MP.....COSMOPOLIS.....D 1.6
1.40			CR 1	4.6	.....COSMOPOLIS JCT..... 1.1
f 1.48			CR 3	5.7	.....SOUTH ABERDEEN..... 2.3
f 2.28			CR 13	16.2	.....MARKHAM..... 2.5
s 2.35		T	CR 16	18.7	.....OCOSTA.....P 3.0
A 2.45 PM			CR 19	21.7	.....BAY CITY.....
Wednesday Saturday	EXCEPT SUNDAY				
1.10	.15				Time Over Subdivision
15.7	12.0				Average Speed per Hour

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.

Registering Stations.—Aberdeen Junction and Cosmopolis.
Bulletin Station.—Cosmopolis. No. 583 has right over No. 584, Cosmopolis to Bay City.
583 and 584 will stop on flag at Redmond Creek, located one mile east of Ocosta, for transfer of passengers, baggage and express destined to and from Westport.
All trains will stop 400 feet from and will not proceed until following draw bridges are known to be closed.
Chehalis River, between Aberdeen Junction and Cosmopolis Junction; Johns River, 1/2 mile west of Markham.
Junction switches will be set for line Junction City to Bay City.
Trains will come to full stop before passing over grade crossings of O.-W. R. & N. Co. at various industry tracks in South Aberdeen and Cosmopolis. See Special Rules, page 10.

Westward. FOURTH SUBDIVISION Eastward.
(ELMA BRANCH)

FIRST CLASS.		Time Table No. 36 Succeeding No. 35A January 1, 1912.		FIRST CLASS.	
389	390	STATIONS.		390	
Passenger	Passenger	Telegraph Offices and Calls		DAILY	
DAILY	DAILY			DAILY	
L 7.20 AM	W Y	C Y 27	0.0	YC.....YACOLT.....D 6.6	27.2
f 7.37		C Y 20	6.6	.....WALL..... 1.4	20.6
s 7.48		C Y 19	8.0	.....HEISON..... 1.8	19.2
s 7.50		C Y 17	9.8	.....CRAWFORD..... 3.0	17.4
s 8.05	W	C 14	12.8	BA.....BATTLE GROUND.....D 4.2	14.4
s 8.20		C Y 10	17.0	.....BRUSH PRAIRIE..... 1.6	10.2
f 8.24		C Y 8	18.6	.....LAURIN..... 1.5	8.6
f 8.27		C Y 7	20.1	.....HOMAN..... 1.0	7.1
f 8.32		C Y 6	21.1	.....BARBERTON..... 3.0	6.1
f 8.37		C Y 3	24.1	.....HIDDEN..... 3.1	3.1
A 8.47 AM	Y	C X 25	27.2	.....VANCOUVER JCT.....	0.0
DAILY					
1.27					Time Over Subdivision
18.5					Average Speed per Hour

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.

Registering Station.—Elma.
All trains will run slow between Simpson and Hillgrove account light rails.
Switch in main track just above switch leading to Siding at Simpson must be left to act as derail. See Special Rules, page 10.

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.

Maximum speed of passenger trains is one minute or sixty seconds per mile. This limit must never be exceeded.
Registering Stations.—Yacolt and Vancouver Junction.
Bulletin Stations.—Vancouver and Yacolt.
Standard Clocks.—Vancouver.
Derail switches located on Daly Spur and on Smith Spur must be kept in derailing position when not in use.
Trains from Yacolt Branch must ascertain main line rights before occupying main line at Vancouver Junction.
No. 389 and No. 390 will stop on flag at Luqia and Dole for passengers.
The east switch of the north leg of the wye at Yacolt will be kept set and locked for the north leg of the wye.

IS THIS FILE

SPECIAL RULES FIRST SUBDIVISION.

Passenger trains will register by ticket at South Tacoma, Tenino, Sopenah and Cowlitz. Nos. 679, 680, 691, 692 and 690, will register by ticket at Tenino, Sopenah and Cowlitz. Clearance will not be issued to Westward trains at Sopenah and to Eastward trains at Cowlitz, Tenino or South Tacoma, unless Stop or Caution signal is displayed. All Eastward trains will procure clearance at Kalama. At Tacoma and Tacoma Wharf, no clearance required.

Standard Clocks.—Tacoma, Centralia, Vancouver and Portland. Junction switch at the east end of Columbia River bridge, Vancouver, will be set and locked for N. P. main line. Trains and switch engines using track leading to the wharf at Vancouver, will come to a full stop before crossing S. P. & S. Ry. crossing and will not proceed until a signman has been sent ahead to flag the crossing.

At Vancouver, westward trains will stop at passenger station before engine reaches point of clearance between M. P. and S. P. & S. tracks, and must be under full control before passing station, expecting to find main line occupied. Class S or heavier engines must not use incline track at Kalama, known as the "Salmon track." When doing switching on this track, enough cars must be used so that engine will not need to go on this track. All trains must not exceed ten miles per hour, through the corporate limits of Roy, Centralia, Chehalis, Winlock and Bucoda, and fifteen miles per hour through the corporate limits of Ridgefield.

Derailing Switches.—Rainier (Bob White Lumber Co.'s Spur); Tenino (Derrickson's Spur); Stone Quarry; Wabash. Interlocking derail on O-W. R. & N. connection; Chehalis, east end of the House track; west end of Flour Mill track; Napavine (Summerville's Spur and Pitcher's Spur); Winlock, west end of House track; Knapps, Hous track.

Yard Limit Signs.—Tacoma, Centralia, Chehalis, Kalama, Winlock, Vancouver and Portland. Chehalis yard extends to the west wye switch at Chehalis Junction. Centralia yard extends to a point 2,500 feet east of Wabash.

No. 308 will stop at Lakeview to let off passengers from points south of Lakeview. No. 307 will stop at Lakeview on "Flag" to pick up passengers for points south of Lakeview. Evaluate is a "Flag" stop for trains Nos. 307, 308, 369, 370, 361 and 362.

No. 334 will stop at McIntosh Saturdays on flag. No. 333 will stop at McIntosh Sundays on flag. Nos. 358 and 359 will stop on flag at any station between Tacoma and Portland to receive or discharge passengers holding Great Northern tickets reading "Spokane or points east thereof." No. 359 will stop at Tenino to let off passengers from points Tacoma and north, and to pick up Portland passengers.

Lap Sidings.—Roy and Rainier. Trains taking sidings will head in at the lap. Telephones are located at Chehalis and Chehalis Junction. Trains from sixth sub-division, South Bend branch, before leaving Chehalis Junction, will ascertain by telephone, position of all main line trains, and secure train order and block rights before authorizing them to use tracks between Chehalis Junction and Chehalis before proceeding.

Between Centralia and Wabash, the third or extreme right hand track going east, will be used as a switching lead, for the east end of Centralia yard, as far as the yard limit board; any train going beyond yard limit board will obtain train order authority from dispatcher at Tacoma, by the use of telephone, which is located in the building formerly used for telegraph office. Communication with Dispatcher can be had by the use of telephone located on the Dispatchers' wire, in accordance with instructions, which will be found posted in the telephone booth. Under such authority, the third track will be used by trains to or from the Centralia Eastern Railway, and the Tono branch of the O-W. R. & N. Co. at Wabash, and for such eastbound main line freight trains as may be designated by the yard master at Centralia. No cars will be left on this third track either by train crew or yard crews, without train order authority. The single track between the depot and the double track switch at Centralia, will be operated under yard limit rules. Before using single track trains must have time table, or train order rights, or be fully protected as per rule 99. All trains will ascertain position of double track switch before using, and will run under full control on the single track between the depot and the double track switch.

Trains will be governed by Special Rules of Tacoma Terminal Division, between Tidewater and a point two and one-half (2½) miles west of South Tacoma. See page 10 for special rules governing.

Interlocking Switches.

Govern movement over Lewis River Bridge, three miles east of Ridgefield.

Special Rules for Movement of Trains on Double Track.

On double track, as indicated by division time table, Rule 86 is modified to the extent that inferior class trains and extras may run ahead of second class trains without authority of a train order. In manual block territory any train moving against the current of traffic must receive a proper clearance card at every open block office.

In automatic block territory Rule 514 does not apply to trains moving against the current of traffic, and the rear of the train must be protected as prescribed in Rule 99. To insure personal safety, operators having train orders or messages for passing trains should stand on the right hand side of the train and never stand between the tracks.

Except as modified above, the Transportation Rules govern.

Special Rules Second Subdivision (Gray's Harbor Line).

Clearance will not be issued at Olympia, Elma and Aberdeen Jct., unless Stop signal is displayed. Trains will register by ticket at Lakeview; will not be required to procure clearance unless Stop or Caution signal is displayed. Trains from Second Subdivision must ascertain First Subdivision rights before occupying main line at Lakeview.

Bulletin Stations.—Olympia, Hoquiam and Moclips. **Standard Clocks.**—Tacoma. **Mountain Grades.**—3½ miles west of Sherlock; 3 miles east to 2 miles west of Olympia. Speed of trains when backing up must not exceed twenty miles per hour. Junction switches will be set for line Olympia to Moclips.

No. 365 and No. 366 will stop on flag at Burrows, 2.0 miles west of Chenois Creek; Wilderness, 1.8 miles west of Tulips, and at Bale, 0.9 miles west of Copalis Crossing. Malone, 5 miles east of Elma.

No. 323 and No. 324 will stop at Malone on flag. No. 321 will stop on flag at Dupont to let off passengers. No. 323 and No. 324 will stop on flag at Nisqually Gun Club, two miles east of Sherlock. No. 322 will stop at Little Rock on Saturday only, to take on passengers, and will stop on flag at Union Mills Saturdays only.

No. 322 will stop at Malone on Saturdays when there are ten or more passengers. No. 366 will stop on flag at Overton, three miles east of Little Rock. When No. 324 meets No. 321 at Aberdeen Junction, No. 324 will take siding on west leg of wye.

No. 321 will wait at Gate for connection with No. 383. Trains will approach Gate looking out for trains to and from Third Subdivision turning on wye. No. 965 has right over No. 966, Lakeview to Olympia.

No. 381 will turn on wye on arrival at Gate. Telephones are located in section house at Sherlock, in depot at Lacey, and in section house at Belmore, and are connected with telegraph office at Olympia, and may be used by train crews in emergency.

Class S or S4 engines will not exceed 8 miles per hour over Satsop River bridge. All trains will stop 400 feet from and will not proceed until following draw bridges are known to be closed: Wishka River, ¼ mile east of Aberdeen; Hoquiam River, ¼ mile east of Hoquiam.

Derail Switches.—At east end of house track at Elma, at Vance's Spur, at Mack's Spur, and at Java Spur west of Elma; at east end of Satsop Siding, and at Ninemire & Morgan's Spur, two miles west of Aberdeen.

The movement of Port Townsend Southern trains from track transfer near Port Townsend Southern crossing to Northern Pacific depot, and from Northern Pacific depot to transfer track, will be protected as per rule 99. All Northern Pacific trains will approach these points with train under control, expecting to be flagged by flagman of Port Townsend Southern train.

Normal position of crossing gates at Olympia where Northern Pacific tracks cross those of the Port Townsend Southern Ry. will be closed and locked across the Port Townsend Southern tracks; and when train of that company desires to use crossing, gates will be swung across Northern Pacific track. Stop signal will be maintained day and night on gates, which will consist of switch light at night. All Northern Pacific trains must approach this crossing prepared to stop, but full stop will not be required if it is found that crossing is clear and gates are in normal position.

The tunnel district at Olympia is protected by automatic electric signals as follows: No. 1 large disc just west of passenger station. No. 2 small starting signal just east of passenger station. No. 3 switch indicator at east switch of team track. No. 4 large disc just east of tunnel. Trains and engines will be governed as follows: Eastward—must not pass signal No. 1 or No. 2 at "Stop" and finding signals in this position must protect against Westward trains coming out of tunnel. Eastward trains standing at station must be particular to get clear indication on Signal No. 2 before proceeding east of same. Crews switching at east end of team track must have clear indication on No. 3 signal before throwing switch and thereafter while switching will find this signal at "Stop" when cars or engines are on main line and can continue to switch with switch indicator at "Stop," but when main line has been cleared and switch has been closed signal must show clear before switch is thrown or main line obstructed. Cars on team track must be left west of clearance post as cars overhanging this point will set signals No. 1, No. 2 and No. 3 at "Stop." Trains or engines on Jefferson Street line must get clear No. 4 signal before throwing switch or proceeding out of Jefferson Street line at east end of tunnel. Westward trains or engines must pass not No. 4 signal at "Stop." Signals at "Stop" show red banner by day and red light by night and when at clear a clear disc by day and white light by night. Train and engine men must observe position of signal before engine reaches the signal and not pass signal at "Stop," finding signals in this position will be governed by Rule No. 99. In case of failure of signal apparatus, all signals will indicate stop and after five minutes have elapsed, train will proceed through the block under protection as per rule 99.

No. 322 will slow up sufficiently at South Tacoma to allow Agent to throw on Railway Mail. Side track, length 2,000 feet, located on the Mason County Logging Co.'s road, 1,985 feet from main line switch at Bordeaux Junction. Mason County Logging Company will deliver loads to Northern Pacific Ry. Co. at this siding, and N. P. crews will leave empties for Logging Company at same location. N. P. train crews will not operate on Mason County Co.'s line, beyond siding.

The single track between the double track switch located 800 feet west of passenger station, and the O-W. R. & N. connection 500 feet east of the passenger station Aberdeen, and the single track between the passenger station at Hoquiam and the double track switch located 500 feet east of the Hoquiam River bridge, Hoquiam, will be operated under yard limit rules. Before using single track trains must have time table or train order rights, or be fully protected as per rule 99. All trains will ascertain position of double track switches before using, and will be under full control on the single track at Aberdeen and Hoq.

Westward.

SIXTH SUBDIVISION. SOUTH BEND BRANCH.

Eastward.

THIRD CLASS.			FIRST CLASS.			Water, Fuel, Scales, Tables and Wyes	Station Numbers	Distance from Chehalis Junction	Time Table No. 36 Succeeding No. 35A January 1, 1912.			Distance from South Bend	Car Capacity of Sidings	FIRST CLASS.			THIRD CLASS.		
969	393	391	Passenger	Passenger	Passenger				392	394	970			Passenger	Passenger	Freight			
Freight	See page 1	See page 1	See page 1	See page 1	See page 1				STATIONS.					See page 2	See page 2	See page 2	See page 2	See page 2	
EXCEPT SUNDAY	DAILY	DAILY	DAILY	DAILY	DAILY				Telegraph Offices and Calls					DAILY	DAILY	EXCEPT SUNDAY			
L 6.45AM	L 7.50PM	L 12.30PM	Y	2032	0.0			CHEHALIS JCT.....	56.5	Y	A 9.40AM	A 6.40PM	A 8.35PM						
s 7.05	s 8.00	s 12.40		CW 2	3.4			LITTELL.....	53.1	5	s 9.26	s 6.30	s 8.10						
s 7.15	s 8.03	s 12.44		CW 5	4.7			ADNA.....	51.8	37	s 9.21	s 6.25	s 2.25						
s 7.55	f 8.19	s 12.58		W 2.4 m West	10.1			CERES.....	46.4	58	s 9.06	f 6.10	s 1.55						
					16.2			LUEDINGHAUS R. R. CROSSING	40.3										
s 8.45	s 8.35	s 1.15		CW 16	16.3			DRYAD.....	40.2	90	s 8.50	s 5.55	s 1.15						
8.50		970									969		391						
s 9.05	s 8.40	s 1.19		CW 17	17.6			DOTY.....	38.9	Spur	s 8.45	s 5.50	s 1.00						
s 10.15	s 8.55	s 1.35		W CW 22	22.3			PELL.....	34.2	75	s 8.35	s 5.35	s 12.30						
					23.7			McCORMICK R. R. CROSSING	32.8										
s 10.35	s 9.02	f 1.41		W CW 24	24.3			McCORMICK.....	32.2	Spur	f 8.21	s 5.27	s 12.10PM						
s 11.00	s 9.10	f 1.50		CW 26	26.1			WALVILLE.....	30.4	Spur	f 8.16	s 5.24	11.55AM						
					27.3			WALVILLE R. R. CROSSING	29.2										
f 11.40AM	f 9.25	s 2.00		T CW 29	28.9			PLUVIUS.....	27.6	36	f 8.07	f 5.17	11.40						
970													969						
s 12.15PM	s 9.45	s 2.25		W CW 35	35.3			FRANCES.....	21.2	35	s 7.45	s 4.55	s 10.20						
f 12.25	f 9.49	s 2.30		CW 37	36.6			GLOBE.....	19.9	Spur	f 7.39	f 4.50	s 9.40						
s 12.35	s 9.53	s 2.34		CW 38	38.0			LEBAM.....	18.5	14	s 7.36	s 4.47	s 9.30						
f 1.10	s 10.03	s 2.45		CW 42	42.3			HOLCOMB.....	14.2	30	s 7.24	s 4.35	f 9.00						
f 1.30	s 10.13	s 2.58		CW 46	46.5			MENLO.....	10.0	9	s 7.13	s 4.25	f 8.35						
f 2.00	s 10.23	s 3.10		S CW 50	50.5			WILLAPA.....	6.0	16	s 7.02	s 4.15	f 8.10						
s 2.30	s 10.35	s 3.20		CW 53	53.1			RAYMOND.....	3.4	45	s 6.57	s 4.10	s 8.00						
A 3.00PM	A 10.45PM	A 3.30PM		WC CW 57	56.5			SOUTH BEND.....	0.0	150	L 6.45AM	L 4.00PM	L 7.30AM						
394		394									969-391		391						
EXCEPT SUNDAY	DAILY	DAILY									DAILY	DAILY	EXCEPT SUNDAY						
8.15	2.55	3.00						Time Over Subdivision			2.55	2.40	8.05						
6.8	19.3	18.9						Average Speed per Hour			19.3	21.2	6.9						

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.

Register Station.—Chehalis and South Bend.

Standard Clock.—Centralia.

Bulletin Stations.—South Bend.

Derailing Switches.—Lebam (mill spur), Trap Creek (log spur), Green Creek Spur and Wheaton.

Yard Limit Sign.—Chehalis Junction, Raymond and South Bend.

Maximum speed of passenger trains is one minute or sixty seconds per mile. This limit must never be exceeded.

Mountain Grade.—Between Frances and Pe Ell.

Helper District.—Between Frances and Pe Ell.

Trains will stop 400 feet from draw span over South Fork of Willapa River, three miles east of South Bend. Will not proceed until draw is known to be closed. No. 391, No. 392, No. 393, will stop on flag at Trap Creek.

Westward.

SEVENTH SUBDIVISION (BUCKLEY LINE)

Eastward.

Westward.

EIGHTH SUBDIVISION (GREEN RIVER BRANCH)

Eastward.

Main table containing train schedules for the Seventh and Eighth Subdivisions, including columns for class (Third, First), station names, times, distances, and speeds.

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION

Registering Station—Kanasakat. Mountain Grade—Kangley to Kerriston. Derail Switch—Located 250 feet east of Kangley Jct. on Kangley Line. Trains will look out for engines of Cascade Timber Co. handling logs between their siding and Kangley. See Special Rules, Staff Operation, page 10. Maximum speed of passenger trains is one minute, or sixty seconds per mile. This limit must never be exceeded. See Special Rules, page 10.

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.

Double Track—Between South Prairie and Cascade Junction. Registering Stations—Puyallup, South Prairie, Palmer Junction. Bulletin Stations—South Prairie. Standard Clocks—Tacoma. Derail Switches—At Valley Mill Co.'s Spur, one mile west of Buckley, west end of passing track, at South Prairie, and west end of Crocker yard. East end of Mill siding, Meeker, must be kept in derailing position, when not in use. Yard Limit Signs—Tacoma, Puyallup, Meeker, South Prairie and Cascade Junction. Mountain Grades—Cascade Junction to Buckley. Helper District—South Prairie to Buckley. Maximum speed of passenger trains is one minute or sixty seconds per mile. This limit must never be exceeded. Tacoma Division trains using track between Tidewater and Puyallup and Kanaskat and Palmer Junction, will provide themselves with copy of Seattle Division Time Card, and be governed by instructions issued by Superintendent Seattle Division. At Puyallup and Palmer Junction, all trains register by ticket, and no clearance required unless Stop signal is displayed. Trains will approach Cascade Junction under full control looking out for Branch Line trains. Speed of passenger trains must not exceed thirty miles per hour, and speed of freight trains twenty miles per hour from Buckley to Cascade Junction. Speed must not exceed ten miles per hour within the corporate limits of Puyallup, Orting, Buckley and Enumclaw. No. 396 will register by ticket and need not obtain clearance at South Prairie, unless Stop signal is displayed. No. 398 will wait at Puyallup for connection with Seattle Division No. 323. No. 396 will connect with Seattle Division No. 321 at Puyallup. No. 368 will connect with Seattle Division No. 280, at Kanaskat. No. 367 will connect with Seattle Division No. 3, and No. 368 will connect with Seattle Division No. 4 at Kanaskat. No. 363 will stop on "Flag" at Cumberland for passengers to points east of Palmer Junction. No. 367 will stop on "Flag" at any station west of Palmer Junction, to let off passengers from Kanaskat, or beyond. Nos. 395 and 398 will stop at Boise Creek, 2.17 miles west of Enumclaw for passengers or express. Trains will approach Tidewater under full control and will not proceed until tracks are known to be clear and signal is received from switch tender.

Conductors of trains carrying logs, before using double track, will carefully inspect loading, and if insecure, will obtain orders insuring that other trains will not be met while running. Trains will not exceed twenty-five miles per hour around curves on Buckley Loop between Cascade Junction and Buckley. Engines of any class must not be double headed over Bridge No. 228, Buckley Loop, between Cascade Junction and Buckley. At Puyallup, the upper semaphore arms govern movement of trains using Seattle line; lower semaphore arms govern movement to and from Buckley line. Trains from Buckley line must ascertain main line rights, before occupying main line at Puyallup. Buckley line extends to Puyallup, and the new, or extreme left hand track, coming west, between Meeker and Puyallup, is main line for Buckley line, and also is passing track, and operated under yard limit rules. Puyallup yard limits extend from Meeker to Puyallup. Buckley line trains, in either direction, will use eastward main track of Seattle line, in running around water tank at Meeker. All trains must approach this point under full control and be sure track is clear before proceeding. Buckley line trains will protect by flag when using this gauntlet. Conductors and engineers of trains, from Buckley line, before leaving Meeker, will obtain from operator at Puyallup, by telephone, block indicating position of trains, on eastward track, between Puyallup and Meeker, and in addition to this, before using gauntlet, will fully protect by flag. Will also obtain from operator, the position of train on Buckley line, between Puyallup and Meeker. No trains either main line or Buckley line, will use this portion of track during foggy weather, without obtaining block from operator at Puyallup, and in addition to such precaution, will keep under full control moving at slow speed, taking such precautions, that in case track is occupied, there will be no possibility of accident. Trains from Buckley line that have loads for Seattle Division, will leave them at Meeker, on siding, located between east and west legs of the wye. Any loads for the industries at Meeker, will be taken to Puyallup, and from there, handled to the industries by using westward main line, for passing track switch, just west of the Jurin Mills, under protection of flag while occupying main track. Block must be obtained, and the work handled in such a way, as to not delay passenger train. Double track switches at Cascade Junction and South Prairie, will be set for eastward track, and cross over switch at west end of westward track, near water tank, will be set for passing track. This time card confers no rights on Tacoma Division trains between Palmer Junction and Kanaskat. No. 395, No. 396, No. 367, No. 368, No. 397, No. 398, No. 971 and No. 972, will be handled by train order, and run as Extras between Palmer Junction and Kanaskat. Trains will be governed by Special Rules of Tacoma Terminal Division, between Tidewater, and a point 2 1/2 miles west of South Tacoma. See page 10 for Special Rules.

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TONNAGE RATINGS—FREIGHT ENGINES—N. P. R. R.

EIGHTH SUBDIVISION—EASTWARD.

	Class Z		Class W		Class Y-5		Class Y-2		Class F-1		Class S		Class E-4		Class E-3 or D-3		Class C-6	
	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars
Tacoma to South Prairie.....			1150	38	1100	37	950	32	900	30	800	27	500	17	475	16	350	12
South Prairie to Buckley.....			600	20	625	21	500	17	450	15	400	14	250	9	235	8	175	6
Buckley to Palmer Jct.....			1100	37	1100	37	900	30	900	30	800	27	500	17	475	16	350	12
Tacoma to South Prairie.....			Maximum 80 Cars		Maximum 80 Cars		Maximum 80 Cars		Maximum 60 Cars		Maximum 80 Cars		Maximum 60 Cars		Maximum 60 Cars		Maximum 40 Cars	

EIGHTH SUBDIVISION—WESTWARD.

Palmer to Tacoma.....			Maximum 80 Cars		Maximum 80 Cars		Maximum 80 Cars		Maximum 80 Cars		Maximum 80 Cars		Maximum 60 Cars		Maximum 60 Cars		Maximum 60 Cars	
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FIRST SUBDIVISION—WESTWARD.

	Class W		Class Y-2		Class F-1		Class S		Class P		Class E-4		Class E-3		Class D-3		Class C-6	
	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars
South Tacoma to Rainier.....	1600	53	1350	45	1200	40	1150	38	1050	35	850	28	825	27	825	27	700	23
Rainier to Chehalis.....		80		80		60		60		60		60		50		50		40
Chehalis to Napavine.....	1200	38	1000	34	900	30	850	28	750	25	550	18	525	17	525	17	400	13
Napavine to Portland.....		80		80	1500	50	2000	60	1400	47	1200	40	1175	39	1175	39	1050	35

FIRST SUBDIVISION—EASTWARD.

Portland to Winlock.....	1750	58	1550	52	1400	47	1350	45	1250	41	1050	35	1025	34	1025	34	900	30
Winlock to Napavine.....	1260	42	1110	37	1010	33	960	32	860	29	660	22	635	21	635	21	510	17
Napavine to Rainier.....	1500	50	1250	41	1100	36	1050	35	950	31	750	25	725	24	725	24	600	20
Rainier to Tacoma.....		60	1900	63	1750	58	1700	57	1500	50	1300	43	1275	42	1275	42	1150	38

Hereafter the above table of ratings will govern on ruling grades. These ratings are based on a normal number of cars of thirty tons each.

To find the rating of an engine when train contains more or less than normal number of cars, add five tons to the rating of each car less than the normal, and subtract five tons from

the rating for each car in excess of the normal. Maximum eighty cars between Tacoma and Portland.

Restrictions Governing Class of Power That May be Used on Tacoma Division.

- First Subdivision.**—All classes except engines heavier than S must not go beyond house track switch leading from log dump track at Felida.
- Second Subdivision, Lakeview to Gate.**—No engine heavier than P compound passenger engine and S at slow speed.
- Second Subdivision, Gate to Hoquiam.**—No engine heavier than S-4.
- No engine must be run double header over Satsop river bridge No. 29, and over all Howe truss bridges on Grays Harbor Branch no engines heavier than Class D-3 should be double headed and speed limit of engine's run double header must not exceed eight miles per hour over Howe truss bridges.
- Second Subdivision, Hoquiam to Moclips.**—No engine heavier than F-1.
- Third Subdivision.**—No engine heavier than Class S-4
- Fourth Subdivision.**—No engine heavier than F-1.
- Fifth Subdivision, Aberdeen Jct. to Cosmopolis.**—No engine heavier than F-1.
- Cosmopolis Jct. to Ocosta.**—No engine heavier than D-3.
- Sixth Subdivision.**—No engine heavier than S-4.
- Double headers will not be run over the following bridges when engines are heavier than Class D-3.
No. 2 and No. 13 between Centralia and Gate.
- Seventh Subdivision.**—No engine heavier than Class S; except over Draw Span between Raymond and South Bend, no engine heavier than Class D-3.
- Eight Subdivision.**—All classes except Class Z Mallet Engines.
- Ninth Subdivision.**—No engine heavier than F-1.
- Tenth Subdivision.**—All classes except Q, T, W, X, Y and Z.
- Eleventh Subdivision.**—No engine heavier than F-1.
- Twelfth Subdivision.**—No engine heavier than F-1.
- Thirteenth Subdivision, Cascade Jct. to Wilkeson and Wilkeson to Carbonado.**—No engine heavier than S.
- Carbonado to Fairfax.**—No engine heavier than F-1.

TONNAGE RATING—ENGINES OF O.-W. R. & N. CO. BETWEEN SEATTLE AND PORTLAND.

Rating of Locomotives in Tons of 2000 Pounds

CLASSIFICATION	Engine Numbers	EAST BOUND							WEST BOUND					
		Portland to Kalama	Kalama to Olequa	Olequa to Winlock	Winlock to Napavine	Centralia to Rainier	Rainier to So. Tacoma	Tacoma to Seattle	Seattle to Tacoma Jct	Tacoma Jct to Tacoma	Tacoma to So. Tacoma	So. Tacoma to Centralia	Centralia to Napavine	Napavine to Portland
T-63 $\frac{20}{24}$ 113...	136-146.....	1580	1200	990	720	790	1120	1280	1280	655	315	900	655	1580
	170-207.....	1900	1440	1190	870	960	1310	1540	1540	800	370	1080	800	1900
T-69 $\frac{22}{28}$ 159...	250-305.....	2200	1680	1380	1000	1110	1560	1790	1790	900	440	1250	900	2200
C-57 $\frac{15\frac{1}{2} \times 26}{30}$ 176...	330-349.....	2335	1790	1475	1075	1190	1680	1900	1900	985	500	1335	985	2335
C-57 $\frac{22}{30}$ 187...	350-400.....	2940	2250	1860	1360	1490	2120	2380	2380	1220	560	1680	1220	2940
Mik-57 $\frac{23\frac{3}{4}}{30}$ 208...	500-540.....	3100	2340	1930	1400	1550	2200	2490	2490	1250	580	1700	1250	3100
M-63 $\frac{20}{28}$ 147...	C. R. Y. y P. 504-526.	2050	1550	1300	940	1035	1500	1710	1710	840	400	1150	840	2050
T-57 $\frac{20}{26}$ 132...	720-727.....													
P-77 $\frac{25}{28}$ 170...	208-209.....	2500	1900	1550	1160	1280	1800	2000	2000	1050	500	1420	1050	2500
S-55 $\frac{19}{26}$ 130...	39-42.....										380			

These ratings include total weight of train, exclusive of engine and tender, which the different classes of locomotives will haul in each direction between the stations shown.

Between stations for which no rating is shown, maximum will apply.

CLASS

- "E"—Eight Wheelers
- "A"—Atlantic Type
- "P"—Pacific Type
- "T"—Ten Wheelers
- "M"—Moguls
- "Mik"—Mikado
- "C"—Consolidation Engines
- "TW"—Twelve Wheelers

Example.—Consolidation engine having 57 inch drivers, cylinders 22-inch diameter and 30-inch stroke, and weighing 187,000 pounds on drivers:

C-57 $\frac{22}{30}$ 187

Ratings for time freight trains, Albina to Tacoma, is 10% less than tabulated rating as shown between Winlock and Napavine and between Centralia and Rainier.

TACOMA TERMINAL DIVISION

TACOMA TERMINAL EMBRACES NORTHERN PACIFIC LINES FROM TIDEWATER AT THE WEST LINE OF EAST "Q" STREET TO MILE POST 8+942 FEET OR APPROXIMATELY 2½ MILES WEST OF SOUTH TACOMA.

Maximum speed of passenger trains is one minute or sixty seconds per mile. This limit must never be exceeded. Eastward trains are superior to trains of the same class in the opposite direction. Double track between Tidewater and Tacoma Wharf and Tacoma Yard Office and South Tacoma. Automatic block between Tacoma Yard Office and South Tacoma. Registering Stations.—Tacoma Yard Office, Tacoma Union Station and South Tacoma. Bulletin Stations.—Tacoma Yard Office and Tacoma Union Station. Standard Clock.—Tacoma Union Station. Mountain Grade.—Tacoma Yard Office to 2½ miles west. Derail switches are located as follows, and must be kept set in derailing position when not in use. Harrison Bros. Spur and Keystone Lumber Company's Spur. Passenger trains will register by ticket at South Tacoma. Clearance will not be issued at South Tacoma to eastward trains unless Stop or Caution signal is displayed. At Tacoma Yard Office and Tacoma Union Station no clearance required. Yard limit signs are located 2½ miles west of South Tacoma and at Reservation spur just east of Tidewater. Trains will approach Tidewater under full control and will not proceed until tracks are known to be clear and signal is received from switch tender. Trains will approach crossover switches on double track between Tidewater and Tacoma Wharf located at East "L" street (near Head of Bay Yard Office), east "D" street (near roundhouse), and South Twenty-first street (entering passenger station), under full control and will not proceed until tracks are known to be clear and signal is received from switch tender. Trains entering passenger station via Head of the Bay will use extreme care and not exceed eight (8) miles per hour around curve at south end of passenger station yard, and will use extra precaution during foggy weather while running over single track leads at that point. As there are no switch tenders at switches at the north end of passenger yard, trains coming into the yard at that point must positively know that switches are lined up for clear track before passing them. At Tacoma a signal of the single arm semaphore pattern located near junction of line leading to passenger station and the draw bridge line at Fifteenth street; another signal of the same pattern located at the north end of passenger yard. The two signals are controlled by switch tender at Fifteenth street and will govern single track passenger line between Fifteenth street and Tacoma passenger station. No train from the drawbridge line or eastward main line will enter passenger station when signal at Fifteenth street is at "Stop," and no train will proceed from passenger station to drawbridge line or westward main line when signal at the north end of yard is at "Stop." Push button operating signal to towerman is located on post under Concourse. Switch crew will operate for Portland bound trains and conductors attend to it for Seattle bound trains. Between Tidewater and Tacoma enginemen will obtain card order at Tacoma or Tidewater as authority to use drawbridge line. Drawbridge card Form "A" will govern movement from Tidewater to Tacoma. Drawbridge card Form "B" will govern movement from Tacoma to Tidewater. This bridge card to be delivered to operator at Tidewater or to Chief Dispatcher at Tacoma. Westward trains that do not enter passenger station at Tacoma will leave drawbridge card with towerman at Fifteenth street for delivery to Chief Dispatcher's office. Trains receiving drawbridge card on which exceptions are noted of trains running ahead, will proceed under full control. This bridge card does not relieve trains from protecting rear end as per Rule 99, Book of Transportation Rules.

Interlocking signals at east and west approach to Drawbridge control use of bridge and trains will not proceed unless home signal shows clear indication. Distant signal located at Drawbridge line 1,500 feet east of home signal just east of Tacoma draw span is semi-automatic. When home signal is clear, distant signal will be clear; when home signal shows stop position, distant signal will show stop position. Trains will observe automatic block rules. Speed of trains over crossover switches at Tidewater and over Fifteenth Street bridge entering passenger yard, must not exceed ten (10) miles per hour and five (5) miles per hour over switches at north end of passenger yard. No engine heavier than N. P. class W loaded weight of which is as follows: Weight on drivers 207,000 lbs.; weight of engine and tender 456,000 lbs., will be run over Bridge No. 254, Tacoma Draw Span. No two engines of any class will double head over this bridge where the combined weight is greater than N. P. class W. Enginemen will not use sand over derail switches and rail locks at east and west end of Tacoma draw span. Enginemen will refrain from dumping ash pans on tracks in passenger station, Tacoma. Enginemen will reduce exhaust on engine to the lowest possible point while passing under concourse, Tacoma Union Station. Tell Tales have been placed on train sheds at north and south end of Concourse, Tacoma Union Station. Test inspection and understanding, as required by Rule 703, Book of Transportation Rules, will be had at South Tacoma eastward on all freight trains. Conductors will fill out card, Form 3632, and deliver same to the operator at South Tacoma, who will complete and mail to Superintendent of Terminals each day. Retainers will be turned up on all cars before descending Tacoma Hill. Enginemen on road engines of eastward trains before backing into the passenger station after stop has been made, will cut out air brake valve and leave air applied, to be released by switch engine. Switch engine will control the air until stop is made at the passenger station, leaving brakes applied after making the stop. Enginemen on road engine of westward trains, will, after terminal air test is made, apply air to the train and cut out air brake valve leaving the air applied to be released by switch engine when ready to depart. Switch engine will control the air while backing out of the station and make the stop before starting up the hill, leaving the air applied to be released by the road engine. The leading engine will control the air under all conditions. Freight trains leaving Tacoma yard or switch engine taking transfer to South Tacoma, will not pass crossover track above Fifteenth street leading from passenger yard to outgoing track without signal from switch tender, who will not allow trains or transfers to pass this crossover when any passenger train is backing out of or waiting in the passenger station. Eastward trains will be under absolute control approaching Pacific Avenue at Tacoma and will not pass Pacific avenue crossing without signal from switch tender, indicating that crossovers at Pacific avenue are clear. At night switch tender will give signal with a "White" light. All trains which will use the drawbridge line without entering passenger station, will stop above Pacific avenue and not proceed beyond there until engineman is furnished with a bridge card and an understanding established with switch tender covering movement of train over drawbridge line. If it is found that freight train cannot use drawbridge line and passenger train will be delayed on this account, conductor will arrange to enter Half Moon yard and be handled via freight tracks to Tidewater.

SPECIAL INSTRUCTIONS REGARDING USE OF STAFF ON SUBDIVISIONS AND SPURS.

Dupont Spur on Second Sub-Division at Dupont.
Hoquiam River Spur on Second Sub-Division at Hoquiam.
Elma Branch, 4th Sub-Division.
Cosmopolis Branch, on 5th Sub-Division.
Centralia Eastern Ry. at Wabash, on 1st Sub-Division main line.
Orting Branch, 11th Sub-Division.

Crocker Branch, 12th Sub-Division.
Green River Branch, 8th Sub-Division.
Before using these tracks trains will obtain staff, which is located in staff box, at each Junction.
All other trains using these tracks, must be operated under protection as per Rule 99.

For completion of Dispatcher's record of service, operator at Main Line Junction will telegraph copy of register, including mileage made, information to be shown on register by conductor.
If there is no operator at junction point, information will be telegraphed from first open telegraph station.

AUTHORIZED SURGEONS, O.-W. R. R. & N. CO.

SEATTLE—
Dr. Montgomery Russell, Division Surgeon.
Dr. F. R. Underwood, Assistant Surgeon, 618-20-22 Leary Bldg.
District between Seattle and Tacoma.
Dr. E. B. Burwell, Oculist and Aurist, 300-1 Cobb Bldg.
AUBURN—
Dr. F. D. Merritt, District Surgeon.
District between Seattle and Tacoma.

TACOMA—
Dr. Chas. James, District Surgeon, 304 Ber-lin Bldg.
District between Auburn and Tenino.
TENINO—
Dr. Chas. E. Robson, District Surgeon.
District between Tacoma and Centralia.
WINLOCK—
Dr. Irvin W. Weichbrod, District Surgeon.
District between Castle Rock and Centralia.

CENTRALIA—
Dr. David Livingstone, District Surgeon.
District between Winlock and Tenino, and Elma and Hannaford Creek Branch.
CASTLE ROCK—
Dr. T. C. Campbell, District Surgeon.
District between Kelso and Winlock.
KELSO—
Dr. C. W. Bales, District Surgeon.
District between Kalama and Castle Rock.

KALAMA—
Dr. Luther M. Simms, District Surgeon.
District between Vancouver and Kelso.
VANCOUVER—
Dr. J. T. Guerin, District Surgeon.
District between Kalama and Albina.
ALBINA—
Dr. Curtis C. Holcomb, District Surgeon.
District between Vancouver and Portland.

PORTLAND—
Dr. Kenneth A. J. Mackenzie, Chief Surgeon.
Dr. Geo. Ainslie, Consulting Oculist and Aurist.
Dr. Frank M. Taylor, Assistant Surgeon.
Dr. D. H. Jessup, Assistant Surgeon.

AUTHORIZED SURGEONS, N. P. RY. CO.

Dr. S. W. MOWERS, Chief Surgeon, Western Div., Tacoma.
Dr. J. H. SHEETS, Buckley (S).
P. B. SWEET, Kangley, Wn.
Dr. W. B. PENNY, Wilkeson, Wn. Orting (S).
Puyallup (S).
Tacoma Hospital (S).
Tacoma Round House (S).
Tacoma Moon Yard Office, (S)
Head-of-Bay Yard Office, (S)

Tacoma Baggage Room (S).
Tacoma Wharf (S).
Tacoma (Toolcar) (S).
Dr. P. B. SWEARINGEN, So. Tacoma (S)
Dr. E. L. CARLSEN, So. Tacoma (S).

Location of Stethers (S).
Dr. G. W. KENNICOTT, Chehalis.
Dr. J. W. MOWELL, Olympia (S).
Dr. J. H. DUMON, Centralia (S).
Dr. E. P. FRENCH, Elma.
Dr. F. L. CARR, Montano (S).

Dr. H. C. WATKINS, Hoquiam.
Dr. PAUL SMITHS, Aberdeen.
Dr. A. B. MACLEAN, Pe Ell.
Dr. W. GRUWELL, So. Bend (S).
Dr. N. C. McLAFFERTY, Winlock.

Dr. T. C. CAMPBELL, Castle Rock.
Dr. C. A. MACCALLUM, Kalama (S).
Dr. J. MCCHESENEY, St. John's.
Dr. J. T. GUERRIN, Vancouver (S).
Dr. ANDREW C. SMITH, Portland (S).

Dr. P. B. WING, Oculist, Tacoma.
Dr. W. G. CAMERON, Specialist, Tacoma.
Dr. J. F. DICKSON, Oculist, Portland
Dr. A. W. STEVENSON, Yacolt (S).

Note

Surgeons will attend, when called upon officially, to all cases of ACCIDENT occurring to employes or passengers. In cases of SICKNESS it is the intention to limit medical service to the locality or town where a surgeon resides, unless some urgent necessity exists, for which distinct official authority must be had in accordance with established regulations. Railway Officials are required to call on the nearest authorized surgeons whenever practicable, when surgical or medical services are needed. When such are accessible, the Association will not be responsible for bills for medical services rendered by any other physician. In the event of a sudden emergency, arising from accident, if necessary proper surgical aid should be procured until the arrival of a regularly appointed surgeon, when the case should be placed in his charge, and in no case should the services of any but an authorized company surgeon be continued at the expense of the Railway Company or of the Association after such surgeon is able to assume charge of the case. Boarding and Nursing are furnished ONLY AT OUR OWN HOSPITALS. We are not responsible for bills incurred elsewhere unless specially authorized or approved by the Chief Surgeon, and then only in critical cases of injury or illness occurring in the discharge of duty.

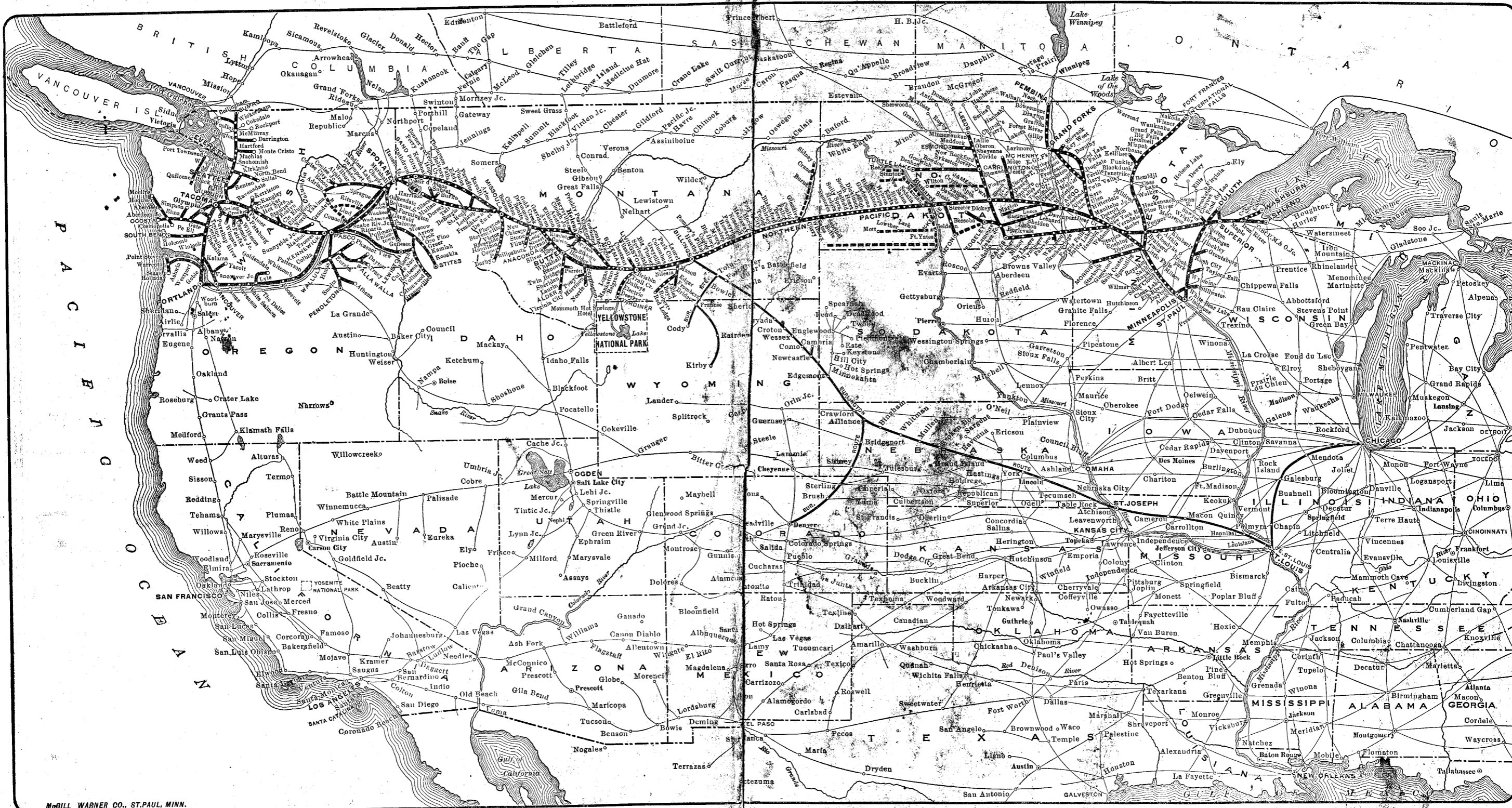
Boarding and Nursing are furnished ONLY AT OUR OWN HOSPITALS. We are not responsible for bills incurred elsewhere unless specially authorized or approved by the Chief Surgeon, and then only in critical cases of injury or illness occurring in the discharge of duty.

AUTHORIZED SURGEONS, G. N. RY. CO.

Dr. J. A. LA GA...

J. S. DEAN,
Train Master, Tacoma

J. F. ALSIP,
Chief Dispatcher, Tacoma



McGILL WARNER CO., ST. PAUL, MINN.

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