

NORTHERN PACIFIC RAILWAY COMPANY.

TACOMA DIVISION

TIME 54A TABLE

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

SUNDAY, JULY 15, 1928.

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 Instructions and always have for reference a copy of TRANSPORTATION RULES.

A. V. BROWN,
General Manager.

J. E. CRAVER,
General Superintendent.

M. G. CRAWFORD,
Assistant General Superintendent of Transportation.

W. C. SHOWALTER,
Superintendent.

P. H. McCAULEY,
General Superintendent of Transportation.

**FIRST SUBDIVISION.
MAIN LINE.**

Water, Fuel, Scale, Turn Tables, Wyes and Yard Limits	Station Numbers	Time Table No. 54A July 15, 1928 Succeeding No. 54			Distance from Tacoma	FIRST CLASS								SECOND CLASS				THIRD CLASS										
		401	407	421		423	459	561	563	591	593	671	679	691	693	963	965	969	973	975	977	979	997					
		Daily	Daily	Daily		Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Ex. Sat.	Ex. Sun.	Mon., Wed., Fri.	Ex. Sun.	Ex. Sun.	Ex. Sun.	Ex. Sun.	Ex. Sun.	Tue., Fri.	Ex. Sun.				
		Consolidated Passenger	Consolidated Passenger	Nor. Pac. Grays Harbor Limited		Nor. Pac. Grays Harbor Express	Consolidated Passenger	Consolidated Passenger	Consolidated Passenger	Nor. Pac. Willapa Harbor Passenger	Nor. Pac. Willapa Harbor Limited	Great Nor. Time Freight	Nor. Pac. Time Freight	O.-W.R.&N. Time Freight	Nor. Pac. Time Freight	Nor. Pac. Way Freight	Nor. Pac. Way Freight	Nor. Pac. Way Freight	Nor. Pac. Way Freight	O.-W.R.&N. Way Freight	O.-W.R.&N. Way Freight	Nor. Pac. Way Freight	Great Nor. Way Freight					
STATIONS Telegraph Offices and Calls																												
W	1976	Q	TACOMA 0.4	DN	0.0	L 1.30AM	L10.30AM		L 5.55PM		L 2.25PM	L12.40AM				L 9.15PM		L10.15PM	L 8.00AM	L 7.05AM								
			O.-W. R. & N. Co. CONNECTION 2.4		0.4												L 8.38PM											
X	CS 2 1/2	NX	McCARVER ST. 6.9	DN	2.8	1.38	10.38				2.33	12.50					9.30	8.50	10.30	8.20	7.20							
	CS 10	SX	SIXTH AVENUE 6.0	Cross Over	9.7	1.49	10.48				2.43	1.04					9.50	9.10	10.50	8.50	7.40							
	CS 16	UO	STELLACOOM 2.0	Cross Over	15.7	2.00	10.58				2.52	1.16					10.05	9.25	11.05	9.40	7.55							
W	CS 18		KETRON 6.7	Cross Over	P 17.7	2.03	11.01				2.55	1.20					10.10	9.30	11.10	9.50	8.00							
X	CS 24	NU	NISQUALLY 3.8	DN	24.4	2.18	11.13				3.07	1.34					10.30	9.50	11.30	10.20	8.20							
X	CS 28	SR	ST. CLAIR 1.6	Cross Over	28.2	2.25	11.20				3.14	1.42					10.40	10.05	11.40	10.35	8.30AM							
W	CS 30		KYRO 5.1	Cross Over	P 29.6	2.28	11.22				3.17	1.45					10.45	10.20	11.45PM	10.40	See page 4							
X	CS 35	MA	CHAMBERS PRAIRIE 2.7	DN	34.9	2.37	11.30				3.27	1.55					11.00	10.35	12.01AM	11.00								
	CS 37		PLUMB 5.4	Cross Over	37.6	2.41	11.34				3.32	2.01					11.07	10.45	12.08	11.10								
X	20 15	NO	TENINO 0.5	DN	43.0	2.50	11.44				3.42	2.13					11.22	11.00	12.22	11.30								
W			TENINO JCT. 3.2	Cross Over	43.5	2.51	11.45 963			L 6.46PM	3.43	2.14	L11.40AM 963			L 9.43PM	11.23	11.01	12.23	11.35AM 12.05PM 407-591								L 9.25AM
	2020	BC	BUCODA 5.1	Cross Over	D 46.7	2.57	11.50AM			6.50	3.49	2.21	11.46			9.50	11.30	11.07	12.30	12.30								9.40
	2025		WABASH 2.2	Cross Over	P 51.8																						L 1.10PM	
WCO	2027	CN	CENTRALIA 3.7	Cross Over	54.0	3.10 3.15	12.01PM 12.08 591			7.00 7.05	4.00 4.05	2.35 2.55	11.56AM 12.15PM 407	L 7.20PM		10.10 10.45	11.50PM 12.20AM	11.30PM 12.05AM	12.50AM	1.00PM		L 6.00AM	L 5.30AM	10.00AM	L 5.00AM	A 1.20PM	10.30	
W	2031	CH	CHEHALIS 0.9	Cross Over D	57.7	3.25	12.18			7.15	4.15	3.05	12.25	7.30		10.55	12.35	12.20				6.40	6.00		5.30		11.00	
X	2032		CHEHALIS JCT. 6.5	Cross Over	P 58.6								A12.30PM	A 7.35PM							A 6.45AM							
Y	2038	NA	NAPAVINE 3.1	DN	65.1	3.43	12.32			7.28	4.30	3.20	See page 9	See page 9		11.15	1.10	12.50			See page 9	7.00		6.10		11.45		
	2040		EVALINE 3.1	Cross Over	68.2	3.48	12.36			7.32	4.35	3.25				11.22	1.20	1.00				7.10		6.20		11.55AM		
X	2044	WI	WINLOCK 6.5	Cross Over	D 71.3	3.55	12.42 997			7.36	4.42	3.30				11.30	1.30	1.10				8.10		6.40		12.08PM 12.48 407		
W	2050	PN	VADER 1.2	Cross Over	D 77.8	4.07	12.53			7.45	4.53	3.40				11.45	1.55	1.35				8.30		7.20		1.00		
	2051		VADER JUNCTION 1.5	Track Conn.	79.0																							
	2053	OO	OLEQUA 6.9	Cross Over DN	80.5	4.12AM	12.58PM			A 7.49PM	4.58PM	A 3.44AM				11.52PM	2.05AM	1.45AM				9.00AM		7.35AM		1.10PM		
BETWEEN QLEQUA AND LONGVIEW JCT. TRAINS USING L. P. & N. TRACKS WILL BE GOVERNED BY L. P. & N. TIME TABLE AND RULES.																												
W	2060	CA	CASTLE ROCK 6.3	Cross Over	87.4	4.25AM	1.10PM			VIA L.P.&N.R.R.	5.10PM					12.10AM	2.25AM	2.05AM				10.15AM		8.20AM		1.40PM		
	2066		OSTRANDER 3.6	Cross Over	93.7	4.37	1.20			VIA L.P.&N.R.R.	5.20					12.28	2.40	2.25				10.35		9.00		2.00		
X	2071	K5	KELSO 2.9	Cross Over	97.3	4.44	1.28				5.28					12.40	2.55	2.35				11.30		9.20		2.30		
	2074	JC	LONGVIEW JCT. 2.8	Cross Over N	100.2	4.50	1.33			L 8.29PM	5.33	L 4.24AM				12.47	3.02	2.42				11.37		9.30		2.37		
	2077		CARROLLS 4.5	Track Conn.	103.0	4.56	1.38				5.38	4.29				12.54	3.10	2.50				11.45AM		9.45		2.45		
W	2081	KA	KALAMA 4.3	DN	107.5	5.06	1.48			8.38	5.45	4.36				1.07	3.30	3.10				12.30PM		10.55		3.10		
	CX 4		MARTINS BLUFF 4.8	Cross Over	111.8	5.15	1.55			8.43	5.52	4.43				1.18	3.45	3.30				12.40		11.10		3.35		
	CX 9	WD	WOODLAND 5.4	Cross Over	116.6	5.26	2.05			8.49	6.00	4.52				1.29	4.00	3.50				1.00		11.45AM		3.50		
W	CX15	RG	RIDGEFIELD 5.2	Cross Over	122.0	5.38	2.15			8.57	6.12	5.03				1.43	4.15	4.10				1.30		12.01PM 1.00		4.15		
	CX21		KNAPP 3.3		127.2	5.50	2.25			9.03	6.22	5.14				1.55	4.30	4.25				1.45		1.15		4.30		
W	CX23		FELIDA 2.8	Cross Over	130.5	5.57	2.30			9.07	6.28	5.21				2.03	4.40	4.35				2.00		1.25		4.40		
Y	CX25	VJ	VANCOUVER JCT. 3.1	DP	133.3	6.03	2.35			9.10	6.33	5.26				2.10	4.50	4.45				2.10		1.35		4.50		
WTC	CX29	MX	VANCOUVER 8.0	Cross Over DN	136.4	A 6.10AM	A 2.40PM			A 9.15PM	A 6.40PM	A 5.32AM				A 2.20AM	A 5.05AM	A 5.00AM				A 2.20PM		A 1.55PM		A 5.00PM		
YX		S. P. & S.		Track Conn.																								
BETWEEN VANCOUVER AND PORTLAND TRAINS WILL BE GOVERNED BY SPOKANE, PORTLAND AND SEATTLE RAILWAY TIME TABLE AND RULES.																												
WTCY		C	LAKE YARD 2.0	DN	144.4											A 6.30AM												
WCOT	2121	VC	PORTLAND	DN	146.4	A 6.45AM	A 3.15PM			A 9.45PM	A 7.15PM	A 6.15AM																
						Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Ex. Sat.	Ex. Sun.	Mon., Wed., Fri.	Ex. Sun.	Ex. Sun.	Ex. Sun.	Ex. Sun.	Ex. Sun.	Tue., Fri.	Ex. Sun.	
			Time Over Subdivision			4.35	4.03	.08	.50	2.24	4.10	4.32	.31	.15		4.02	7.20	7.47	2.35	4.30	1.25	.45	8.50	3.25	7.56	.10	6.55	
			Average Speed Per Hour			29.0	34.0	28.5	33.6	39.3	32.3	30.4	30.0	18.4		23.3	18.6	17.2	20.9	12.0	19.9	6.1	9.3	15.6	9.5	13.2	13.4	

AUTOMATIC BLOCK BETWEEN TENINO AND VANCOUVER.

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

SPECIAL INSTRUCTIONS PAGES 10, 13, 14 AND 15.

DOUBLE TRACK BETWEEN VANCOUVER AND TACOMA.

EASTWARD

FIRST SUBDIVISION.
MAIN LINE.

Distance from Portland	Time Table No. 54A July 15, 1928 Succeeding No. 54			Car Capacity of Siding	FIRST CLASS										SECOND CLASS				THIRD CLASS									
	STATIONS	Telegraph Offices and Calls	Car Capacity of Siding		402	408	422	424	458	562	564	592	594		672	680	692	694		964	966	970	974	976	978	980		
					Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Ex. Sun.		Ex. Sun.	Tues., Thu., Sat.	Ex. Sun.	Ex. Sun.	Ex. Sun.	Ex. Sun.	Tue., Fri.
					Consolidated Passenger	Consolidated Passenger	Nor. Pac. Grays Harbor Passenger	Nor. Pac. Grays Harbor Limited	Consolidated Passenger	Consolidated Passenger	Consolidated Passenger	Nor. Pac. Willapa Harbor Passenger	Nor. Pac. Willapa Harbor Limited		Great Nor. Time Freight	Nor. Pac. Time Freight	O.-W.R.&N. Time Freight	Nor. Pac. Time Freight		Nor. Pac. Way Freight	Nor. Pac. Way Freight	Nor. Pac. Way Freight	Nor. Pac. Way Freight	O.-W.R.&N. Way Freight	O.-W.R.&N. Way Freight	Nor. Pac. Way Freight		
146.4	Q	TACOMA 0.4 Cross Over	DN	A 5.05AM	A 1.55PM		A 6.55PM		A 5.45PM	A 4.50AM					A 3.21AM		A 1.20AM			A 3.30PM								
146.0		O.-W. R. & N. Co. CONNECTION 2.4													A 4.12AM								A 10.45AM					
143.6	NX	McCARVER ST. 6.9 Cross Over	DN	4.55	1.47		6.47		5.37	4.35					3.09	4.00	1.00			3.10			10.30					
138.7	SX	SIXTH AVENUE 6.0 Cross Over	DN	4.40	1.35		6.33		5.27	4.17					2.38	3.35	12.30			2.45			10.00					
130.7	UO	STELLACOOM 2.0 Cross Over	DN	4.25	1.25		6.21		5.17	4.03					2.18	3.10	12.10			2.10			9.30					
128.7		KETRON 6.7 Cross Over	DN	4.20	1.21		6.17		5.14	3.58					2.10	3.00	12.01AM			1.50			9.00					
122.0	NU	NISQUALLY 3.8 Cross Over	DN	4.07	1.10	A 12.26PM	6.04		5.04	3.40					1.45	2.35	11.35PM			1.20			8.30					
118.2	SR	ST. CLAIR 1.6 Cross Over	DN	3.55	1.03	L 12.16PM	5.57PM		4.57	3.31					1.35	2.20	11.25			L 1.10PM			8.00					
116.6		KYRO 5.1 Cross Over	DN	3.53	1.00	See page 5	See page 5		4.55	3.27					1.28	2.15	11.20			See page 5			7.50					
111.6	MA	CHAMBERS PRAIRIE 2.6 Cross Over	DN	3.45	12.52				4.47	3.17					1.08	2.00	11.00						7.30					
108.9		PLUMB 5.4 Cross Over	DN	3.40	12.48				4.42	3.10					1.00	1.30	10.50						6.50					
103.4	NO	TENINO 0.5 Cross Over	DN	3.29	12.39				4.34	2.57					12.31	1.11	10.31						6.30					
102.9		TENINO JCT. 3.2 Cross Over	DN	3.27	12.37			A 7.31PM	4.33	2.55	A 12.10PM			A 10.43PM	12.30	1.10	10.30			A 6.40AM			6.15					
99.7	BC	BUCODA 5.1 Cross Over	DN	3.20	12.32			7.27	4.27	2.48	12.03PM			10.35	12.05AM	12.55	10.15			6.30			6.00					
94.6		WABASH 2.2 Cross Over	DN																									
92.4	CN	CENTRALIA 3.7 Cross Over	DN	3.05	12.20			7.17	4.15	2.30	11.50AM	A 6.30PM		10.15	11.30PM	12.30	L 9.30PM			A 2.55PM	A 11.55AM	L 5.30AM	A 2.30PM	A 11.40AM				
88.7	CH	CHEHALIS C. M. St. P. & P. 0.9 Track Conn.	DN	2.55	12.15			7.12	4.10	2.10	11.40	6.20		9.55	11.05	12.05AM							2.15		L 11.30AM			
87.8		CHEHALIS JCT. 6.5 Cross Over	DN	2.45	12.05PM			7.02	4.00	2.00	11.30	6.15PM		9.45	10.50	11.50PM												
81.8	NA	NAPAVINE 3.1 Cross Over	DN	2.30	11.50AM				6.50	3.45	1.45	See page 9	See page 9	9.25	10.27	11.25						11.15		1.50				
78.2		EVALINE 3.1 Cross Over	DN	2.24	11.44				6.46	3.37	1.41			9.18	10.17	11.15						11.05		1.20				
75.1	WI	WINLOCK 6.5 Cross Over	DN	2.15	11.37				6.41	3.29	1.34			9.08	10.07	11.05						10.50		1.05				
68.6	PN	VADER 1.2 Cross Over	DN	2.00	11.24				6.31	3.14	1.22			8.54	9.47	10.45						10.10		12.30PM				
67.4		VADER JCT. 1.5 Track Conn.	DN																									
65.9	OO	OLEQUA 6.9 Track Conn.	DN	1.52	11.19			L 6.27PM	3.07	1.18AM				8.47	9.40	10.35							9.50		11.50AM			
59.0	CA	CASTLE ROCK 6.3 Cross Over	DN	1.40	11.05				2.55					8.32	9.20	10.18							9.30		11.30			
52.7		OSTRANDER 3.6 Cross Over	DN	1.28	10.53				2.43					8.19	9.02	10.00							9.00		11.05			
49.1	KS	KELSO 2.9 Cross Over	DN	1.20AM	10.46AM				2.35PM					8.11PM	8.54PM	9.52PM							8.45AM		10.55 10.20AM			
BETWEEN LONGVIEW JCT. AND OLEQUA TRAINS USING L. P. & N. TRACKS WILL BE GOVERNED BY L. P. & N. TIME TABLE AND RULES.																												
46.2	JC	LONGVIEW JCT. 2.8 Track Conn.	DN	1.14AM	10.38AM			A 5.47PM	2.27PM	A 12.38AM				8.05PM	8.47PM	9.46PM							7.55AM		10.05AM			
43.4		CARROLLS 4.5 Cross Over	DN	1.10	10.34			5.43	2.23	12.34				7.59	8.41	9.40							7.45		9.55			
38.9	KA	KALAMA 4.3 Cross Over	DN	1.00	10.25			5.38	2.17	12.27				7.50	8.32	9.30							7.30		9.35			
34.6		MARTINS BLUFF 4.8 Cross Over	DN	12.50	10.17			5.33	2.08	12.21				7.40	8.23	9.17							6.15		9.05			
29.8	WD	WOODLAND 5.4 Cross Over	DN	12.40	10.10			5.27	2.00	12.14				7.30	8.13	9.05							6.00		8.50			
24.4	RQ	RIDGEFIELD 5.2 Cross Over	DN	12.30	10.00			5.19	1.50	12.06AM				7.17	8.01	8.50							5.45		8.20			
19.2		KNAPP 3.3 Cross Over	DN	12.20	9.50			5.12	1.40	11.59PM				7.05	7.50	8.39							5.27		7.50			
15.9		FELIDA 2.8 Cross Over	DN	12.15	9.45			5.08	1.35	11.54				6.57	7.43	8.31							5.20		7.35			
13.1	VJ	VANCOUVER JCT. 3.1 Cross Over	DN	12.10	9.40			5.05	1.30	11.50				6.50	7.37	8.25							5.10		7.25			
10.0	MX	VANCOUVER 8.0 Track Conn.	DN	12.05AM	9.35AM			L 5.00PM	L 1.25PM	L 11.45PM				L 6.40PM	L 7.30PM	L 8.15PM							L 5.00AM		L 7.15AM			
BETWEEN VANCOUVER AND PORTLAND TRAINS WILL BE GOVERNED BY SPOKANE, PORTLAND AND SEATTLE RAILWAY TIME TABLE AND RULES.																												
2.0	C	LAKE YARD 2.0 Cross Over	DN												L 6.53PM													
0.0	VC	PORTLAND 2.0 Cross Over	DN	L 11.30PM	L 9.00AM			L 4.30PM	L 1.00PM	L 11.15PM																		
				Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Ex. Sun.		Ex. Sun.	Tues., Thu., Sat.	Ex. Sun.	Ex. Sun.	Ex. Sun.	Ex. Sun.	Tue., Fri.			
		Time Over Subdivision		4.50	4.15	.10	.58	2.26	4.15	4.45	.35	.15		3.43	7.26	7.32	3.50		.40	2.20	.25	6.55	5.15	6.10	.10			
		Average Speed Per Hour		28.9	32.0	22.8	29.1	38.7	32.0	29.0	25.8	18.4		24.4	18.4	18.1	14.8		13.3	12.0	12.0	11.9	10.3	13.3	13.2			

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.
 AUTOMATIC BLOCK BETWEEN TENINO AND VANCOUVER. DOUBLE TRACK BETWEEN TACOMA AND VANCOUVER.

SPECIAL INSTRUCTIONS PAGES 10, 13, 14 AND 15.

WESTWARD

SECOND SUBDIVISION.
(GRAYS HARBOR LINE AND OCOSTA BRANCH.)

Water, Fuel, Coal, Grain, Cattle, Horses, Wares and Yard Limits.	Station Numbers	Distance from St. Clair	Time Table No. 54A July 15, 1928 Succeeding No. 54 STATIONS Telegraph Offices and Calls			Car Capacity of Sidings	FIRST CLASS					SECOND CLASS		THIRD CLASS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
							421	423	503	577	579						693	697	965	967	983	987	991																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION, EXCEPT NO. 983 IS SUPERIOR TO NO. 984 HOQUIAM TO MOCLIPS, NO. 991 IS SUPERIOR TO NO. 992 COSMOPOLIS TO MARKHAM.
DOUBLE TRACK BETWEEN ABERDEEN AND HOQUIAM RIVER DRAWBRIDGE.
SPECIAL INSTRUCTIONS PAGES 10, 11, 13, 14 AND 15.

EASTWARD

SECOND SUBDIVISION.
(GRAYS HARBOR LINE AND OCOSTA BRANCH.)

Time Table No. 54A July 15, 1928 Succeeding No. 54			FIRST CLASS										SECOND CLASS				THIRD CLASS						
STATIONS Telegraph Offices and Calls			Distance from Moclips	422 Daily Nor. Pac. Passenger See page 3	424 Daily Nor. Pac. Passenger See page 3	500 Daily C.M.St.P.&P. Passenger 418	504 Daily Nor. Pac. Passenger	578 Daily O.-W.R.&N. Passenger						694 Ex. Sun. Nor. Pac. Freight	698 Ex. Sun. C.M.St.P.&P. Freight 162				966 Tue., Thur., Sat. Nor. Pac. Way Frt. See page 3	968 Ex. Sun. Nor. Pac. Way Frt.	984 Ex. Sun. Nor. Pac. Way Frt.	988 Ex. Sun. O.-W.R.&N. Way Frt.	992 Tue. & Sat. Nor. Pac. Freight
SR	ST. CLAIR	DN	100.5	A 12.16 PM	A 5.57 PM														A 12.45 PM				
	UNION MILL	P	97.6	f 12.09	f 5.50														s 12.35				
	LACEY		96.1	s 12.06 PM	5.47														s 12.30				
OY	OLYMPIA	DP	91.1	11.55 AM s 11.50 966	s 5.36 5.31														L 12.15 PM 422				
	TUMWATER SPUR CROS.		90.5																				
	BELMORE		85.8	f 11.38	5.19																		
RK	LITTLE ROCK	D	79.2	s 11.25	5.06																		
	BORDEAUX JCT.	P	78.0	s 11.22	s 5.03																		
	MIMA		76.1	s 11.18	4.59																		
HK	GATE	DN	71.9	11.10 s 11.05 421	s 4.51		See page 8 A 6.13 PM						See page 8 A 6.40 PM						See page 8 A 1.25 PM				
OX	OAKVILLE	DP	67.0	s 10.55	s 4.41		s 6.04						6.25						s 1.09 12.50 503				
	LYTLE		60.1	10.42	4.27		5.51						6.05						s 12.30				
	PORTER		59.1	s 10.40	4.25		f 5.49						6.00						s 12.25				
MN	MALONE	DP	57.5	s 10.37	s 4.22		s 5.46						5.55						s 12.15 PM				
EP	ELMA	DN	52.5	s 10.25 967	s 4.12		s 5.36 694						5.45 5.25 504						11.55 AM s 10.55 421-967				
	SATSOP		48.8	f 10.18	f 4.05		f 5.29						5.15						s 10.45				
	BRADY		46.9	f 10.14	4.01		f 5.25						5.10						s 10.35				
MO	MONTESANO	DNP	42.8	s 10.06 968	s 3.54		s 5.18						5.00						s 10.20 9.00 422				
AJ	ABERDEEN JCT.		18.3																			A 8.45 AM	
	JUNCTION CITY		17.4																			8.40	
	COSMOPOLIS JCT.		16.8																				
MP	COSMOPOLIS	D	18.2																				
	COSMOPOLIS JCT.		16.8																			8.35	
	SOUTH ABERDEEN		15.9																			s 8.30	
	MARKHAM		5.2																			L 7.40 AM 991	
	ABERDEEN JCT.		34.7	f 9.50	f 3.38		5.03						4.35						s 8.35				
SA	ABERDEEN	DN	31.6	s 9.40 9.35	s 3.30 3.25	A 2.40 PM	s 4.55 4.50	A 11.00 PM					4.20	A 5.15 PM					s 8.20		A 4.40 PM		
HO	HOQUIAM	DN	28.0	s 9.25 9.20 983	L 3.15 PM 2.30 PM 987	L 2.30 PM	L 4.40 PM 988	L 10.40 PM					L 4.00 PM	L 5.00 PM					L 8.00 AM	A 4.30 PM	L 4.25 PM 504		
	GRAYS HARBOR CITY		24.5	f 9.10																f 4.15			
	GRAY GABLES		20.1	f 8.57																f 3.55			
	CHENOIS CREEK		18.5	f 8.52																f 3.45			
	BURROWS		16.5	s 8.46																f 3.35			
	TULIPS	P	15.3	s 8.43																f 3.25			
	WILDERNESS		14.6	s 8.41																f 2.55			
	COPALIS		12.1	s 8.33																s 2.45			
AD	CARLISLE	D	8.9	s 8.24																s 2.30			
	ONSLow		7.9	f 8.21																f 1.58 421			
	STEARNSVILLE		6.0	f 8.16																s 1.40			
	ALOHA		4.1	s 8.12																s 1.25			
	PACIFIC BEACH		2.4	s 8.07																s 1.10			
	SUNSET BEACH		1.0	f 8.03																f 1.05			
MC	MOCLIPS	D	0.0	L 8.00 AM																L 1.00 PM			
Time Over Subdivision				3.56	2.32	.10	1.33	.20					2.20	.15					.30	3.05	3.30	.15	1.05
Average Speed Per Hour				26.0	28.6	21.6	28.3	10.8					18.1	14.4					18.8	15.3	8.0	14.4	12.0

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION EXCEPT NO. 983 IS SUPERIOR TO NO. 984 HOQUIAM TO MOCLIPS, NO. 991 IS SUPERIOR TO NO. 992 COSMOPOLIS TO MARKHAM. DOUBLE TRACK BETWEEN ABERDEEN AND HOQUIAM RIVER DRAWBRIDGE.
SPECIAL INSTRUCTIONS PAGES 10, 11, 13, 14 and 15

WESTWARD

THIRD SUBDIVISION.
(AMERICAN LAKE LINE.)

EASTWARD

THIRD CLASS				FIRST CLASS										Time Table No. 54A July 15, 1928 Succeeding No. 54				FIRST CLASS				THIRD CLASS				
		985																						986		
		Ex. Sun.																						Ex. Sun.		
		Nor. Pac. Way Frt.																						Nor. Pac. Way Frt.		
		L 8.00AM																						A 3.55PM		
		8.10																						f 3.47		
		f 8.12																						f 3.45		
		s 8.20																						s 3.40		
		8.30AM 12.45PM 421-422																						L 3.30PM		
		A 12.55PM 528																								
		Ex. Sun.																						Ex. Sun.		
		.40																						.25		
		17.4																						18.4		
																							</			

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.
SPECIAL INSTRUCTIONS PAGES 11, 13, 14 AND 15

WESTWARD

FOURTH SUBDIVISION.
(PRAIRIE LINE.)

EASTWARD

THIRD CLASS				SECOND CLASS		FIRST CLASS			Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits	Station Numbers	Distance from Tacoma	Time Table No. 54A July 15, 1928 Succeeding No. 54				Distance from Tenino Junction	Car Capacity of Sidings	FIRST CLASS			SECOND CLASS		THIRD CLASS				
	997	985		671		591	459	421							422			458	592		672		964	986			
	Ex. Sun.	Ex. Sun.		Daily		Daily	Daily	Daily							Daily			Daily	Daily		Daily		Ex. Sun.	Ex. Sun.			
	Great Northern Way Freight	Nor. Pac. Way Freight		Great Northern Time Freight		Nor. Pac. Willapa Harbor Passenger	Consolidated Portland Passenger	Nor. Pac. Passenger							Nor. Pac. Passenger			Consolidated Seattle Passenger	Nor. Pac. Willapa Harbor Passenger		Great Northern Time Freight		Nor. Pac. Way Freight	Nor. Pac. Way Freight			
	Via Drawbridge Line			Via Drawbridge Line		L 10.25AM	L 5.45PM	L 9.15AM		1977	0.0	Q TACOMA 0.2	DN Cross Over	39.2		A 1.20PM	A 8.30PM	A 1.30PM		Via Drawbridge Line		Via Drawbridge Line	Via Drawbridge Line				
	L 7.05AM	L 7.15AM		L 8.05PM		10.27	5.47	9.17			0.2	AX 15th ST. TOWER 4.4	DN Cross Over	39.0		1.15	8.25	1.25		A 12.20AM		A 10.40AM	A 4.30PM				
	7.30	s 7.45		8.30 458		s 10.40	5.59	s 9.30	WO TX	1981	4.6	SU SOUTH TACOMA 3.6	D	34.6	70	s 1.05	8.15 671	s 1.15		12.01AM		s 10.05	s 4.10				
	f 7.40	As 8.00AM		8.38		f 10.46	6.04	A 9.37AM 964		1985	8.2	VA LAKEVIEW 5.0	D	31.0	52	L 12.53PM	8.10	f 1.07		11.50PM		s 9.50 421	Ls 3.55PM				
	f 7.50			8.48		f 10.53	6.11			1990	13.2	HILLHURST 6.0		26.0	52		8.04	f 1.00		11.40		s 9.25					
	s 8.10			9.00		s 11.03	6.19		W	1996	19.2	RY ROY 5.5	Lap Siding D	20.0	E 62 W 67		7.56	s 12.50		11.28		s 9.00					
	s 8.30 964			9.11		s 11.13	6.26			2002	24.7	Y YELM 5.5	D	14.5	74		7.50	s 12.39		11.15		s 8.30 997					
	s 8.45			9.22		s 11.23	6.33			2007	30.2	RA RAINIER 4.2	Lap Siding D	9.0	E 64 W 73		7.44	s 12.29		11.04		s 8.00					
	f 9.00			9.32		f 11.30	6.39			2011	34.4	McINTOSH 4.6	P	4.8	74		7.38	f 12.20		10.54		s 7.30					
	s 9.20			9.42		s 11.38	6.45		X	2015	39.0	TN WEST TENINO 0.2	D	0.2	36		7.32	s 12.12		10.44		s 7.00					
	A 9.25AM			A 9.43PM		A 11.40AM	A 6.46PM		W X		39.2	TENINO JUNCTION		0.0	E 73 W 74		L 7.31PM	L 12.10PM		L 10.43PM		L 6.40AM					
	See page 2			See page 2		See page 2	See page 2										See page 3	See page 3		See page 3		See page 3					
	Ex. Sun.	Ex. Sun.		Daily		Daily	Daily	Daily								Daily	Daily	Daily		Daily		Ex. Sun.	Ex. Sun.				
	2.20	.45		1.38		1.15	1.01	.22				Time Over Subdivision				.27	.59	1.20		1.37		4.00	.35				
	16.9	10.7		24.1		31.4	37.0	22.3				Average Speed Per Hour				18.2	39.2	29.4		24.1		9.8	13.7				

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.
AUTOMATIC BLOCK BETWEEN TACOMA AND SOUTH TACOMA
DOUBLE TRACK BETWEEN TACOMA AND SOUTH TACOMA.
SPECIAL INSTRUCTIONS PAGES 11, 13, 14 AND 15

EASTWARD

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**EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.
DOUBLE TRACK BETWEEN CASCADE JUNCTION AND SOUTH PRAIRIE.
SPECIAL INSTRUCTIONS PAGES 11, 12, 13, 14 AND 15.**

WESTWARD

SIXTH SUBDIVISION.
(GREEN RIVER BRANCH.)

EASTWARD

SECOND CLASS						Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits	Station Numbers	Distance from Kerriston	Time Table No. 54A July 15, 1928 Succeeding No. 54			Distance from Kanaskat	Car Capacity of Sidings	SECOND CLASS			
533		531		STATIONS					532		534						
Ex. Sun.	Tu. Fri.	Telegraph Offices and Calls			Ex. Sun.				Tu. Fri.								
Mixed	Mixed				Mixed				Mixed								
		L 1.10PM 534			C J 15	0.0	KERRISTON 1.6	14.7						A 1.00PM 531			
		s 1.20		Y		1.6	HALMAR 5.9	13.1	40					s 12.50			
		1.50		W	C J 7	7.5	HEMLOCK 4.9	7.2	6					12.10PM			
		A 2.20PM				12.4	KANGLEY JCT. 1.6	2.3	15					L 11.45AM			
		L 11.30AM			C J 4	14.0	SELLECK 0.1	3.9					A 10.40AM				
						13.9	C. M. St. P. & P. Ry. Crossing 0.9	3.8									
		11.40				13.0	YANDELL 0.6	2.9					10.25				
		11.45			C J 2	12.4	KANGLEY JCT. 0.3	2.3					10.15				
		f 11.50AM				12.7	HIAWATHA 0.6	2.0	Spur 20				s 10.10				
		s 12.01PM			C J 1	13.3	DURHAM 1.4	1.4	30				s 10.00				
		A 12.15PM		W Y O X	A 1	14.7	GV KANASKAT DN	0.0	75				L 9.45AM				
		Ex. Sun.	Tu. Fri.										Ex. Sun.	Tu. Fri.			
		.45	1.10				Time Over Subdivision						.55	1.15			
		5.2	10.0				Average Speed Per Hour						4.2	9.9			

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.
SPECIAL INSTRUCTIONS PAGES 12, 13, 14 AND 15.

WESTWARD

SEVENTH SUBDIVISION.
(CROCKER BRANCH.)

EASTWARD

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EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.
SPECIAL INSTRUCTIONS PAGES 12, 13, 14 AND 15.

WESTWARD

EIGHTH SUBDIVISION.
(ORTING BRANCH.)

EASTWARD

				Water, Fuel, Scales Turn Tables, Wyes and Yard Limits	Station Numbers	Distance from End of Tract	Time Table No. 54A		Distance from Orting	Car Capacity of Sidings				
		July 15, 1928					Succeeding No. 54							
		STATIONS												
		Telegraph Offices and Calls												
			CE 10	0.0	LAKE KAPOWSIN (St. P. & T. Lbr. Co. Camp No. 1) 1.3		10.0	75						
				1.3	C. M. St. P. & P. Ry. Crossing 1.0		8.7							
		W X	CE 8	2.3	PUYALLUP RIVER JCT. (St. P. & T. Lbr. Co. Camp No. 6) 7.7		7.7	60						
		W T	1958	10.0	OG	ORTING	D	0.0	51					

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.
SPECIAL INSTRUCTIONS PAGES 12, 13, 14 AND 15.

WESTWARD

NINTH SUBDIVISION.
(GATE LINE.)

EASTWARD

THIRD CLASS			SECOND CLASS		FIRST CLASS						Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits	Station Numbers	Distance from Centralia	Time Table No. 54A July 15, 1928 Succeeding No. 54			Distance from Gate	Car Capacity of Sidings	FIRST CLASS					SECOND CLASS		THIRD CLASS				
987	967		693				577	505	503	501										502	504	506	578			694		968	988	
Ex. Sun.	Ex. Sun.		Ex. Sun.				Daily	Daily	Daily	Daily										Daily	Daily	Daily	Daily			Ex. Sun.		Ex. Sun.	Ex. Sun.	
O-W.R.&N Way Frt.	Nor. Pac. Way Frt.		Nor. Pac. Freight				O-W.R.&N Passenger	Nor. Pac. Passenger	Nor. Pac. Passenger	Nor. Pac. Passenger										Nor. Pac. Passenger	Nor. Pac. Passenger	Nor. Pac. Passenger	O-W.R.&N Passenger			Nor. Pac. Freight		Nor. Pac. Way Frt.	O-W.R.&N Way Frt.	
L 10.00 AM	L 7.00 AM		L 2.45 AM				L 3.00 AM	L 7.20 PM	L 12.25 PM	L 10.20 AM	WCY X	2027	0.0	CN	CENTRALIA 2.2	DN	13.6	500	A 11.50 AM	A 6.45 PM	A 8.40 PM	A 1.45 AM		A 7.25 PM		A 2.40 PM	A 8.30 PM			
A 10.15 AM	7.10		2.55				A 3.07 AM	7.25 594	12.30	10.25	X		2.2		BLAKESLEE JUNCTION O.-W. R. & N. Co. Crossing C. M. St. P. & P. Ry. Crossing Interlocked		11.4		11.39	6.36	8.30 988	L 1.30 AM		7.15 505		2.30	L 8.20 PM 506			
	s 7.35		3.05					s 7.34	s 12.39	f 10.34		CK51	6.4		4.2 4.6	GRAND MOUND	P	7.2	60	s 11.30	s 6.28	f 8.20		7.00		s 2.15				
	s 8.00		3.15					s 7.44	s 12.49	f 10.44		CK47	11.0	RH	ROCHESTER C. M. St. P. & P. Ry. Crossing	DP	2.6	65	s 11.22	s 6.20	f 8.10		6.50		s 1.55					
	A 8.10 AM		A 3.25 AM					A 7.55 PM 506	A 1.00 PM	A 10.55 AM 502	WY X	CK44	13.6	HK	GATE	DN	0.0	82	L 11.15 AM 501	L 6.13 PM	L 8.00 PM 505		L 6.40 PM		L 1.40 PM					
Ex. Sun.	Ex. Sun. See page 4		Ex. Sun. See page 4				Daily	Daily	Daily See page 4	Daily										Daily See page 5	Daily	Daily		Ex. Sun. See page 5		Ex. Sun. See page 5	Ex. Sun.			
.15	1.10		.40				.07	.35	.35	.35										.35	.32	.40	.15	.45		1.00	.10			
8.8	11.6		20.4				18.8	23.3	23.3	23.3										23.3	25.5	20.4	8.8	17.0		13.6	13.2			
														Time Over Subdivision																
														Average Speed Per Hour																

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.
DOUBLE TRACK BETWEEN CENTRALIA AND BLAKESLEE JUNCTION.
SPECIAL INSTRUCTIONS PAGES 12, 13, 14 AND 15.

WESTWARD				TWELFTH SUBDIVISION. (YACOLT BRANCH.)								EASTWARD			
			3d Class 981 Ex. Sun. Way Frt.	Water, Fuel, Seales, Turn Tables, Wyes and Yard Limits	Station Numbers	Distance from Yacolt	Time Table No. 54A July 15, 1928 Succeeding No. 54 STATIONS Telegraph Offices and Calls			Distance from Vancouver Jct.	Car Capacity of Sidings	3d Class 982 Ex. Sun. Way Frt.			
			L 7.00AM	WYX	C Y 27	0.0	YC	YACOLT 2.2	D 26.9	35	A 11.30AM				
			f 7.07		C Y 25	2.2		MOULTON 4.4	24.7	Spur	f 11.23				
			f 7.20		C Y 20	6.6		WALL 1.5	20.3		f 11.09				
			f 7.25		C Y 19	8.1		HEISON 1.8	18.8	31	f 11.05				
			f 7.30		C Y 17	9.9		CRAWFORD 2.9	17.0		s 10.55				
			s 7.45	W	C Y 14	12.8	BA	BATTLE GROUND 4.2	D 14.1	31	s 10.47				
			f 8.00		C Y 10	17.0		BRUSH PRAIRIE 1.7	9.9	26	f 10.32				
			f 8.04		C Y 8	18.7		LAURIN 1.4	8.2		f 10.28				
			f 8.07		C Y 7	20.1		HOMAN 1.1	6.8	Spur 4	f 10.24				
			f 8.10		C Y 6	21.2		BARBERTON 2.3	5.7	Spur 4	f 10.22				
			f 8.17		C Y 3	23.5		HIDDEN 3.4	3.4		f 10.15				
			A 8.30AM	Y	C X 25	26.9	VJ	VANCOUVER JCT. DP	0.0		L 10.00AM				
			Ex. Sun.								Ex. Sun.				
			1.30					Time Over Subdivision			1.30				
			17.9					Average Speed Per Hour			17.9				

SPECIAL INSTRUCTIONS PAGES 13, 14 AND 15.

WESTWARD						THIRTEENTH SUBDIVISION.						EASTWARD					
						(ELMA BRANCH.)											
THIRD CLASS			Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits	Station Numbers	Distance from Shedden	Time Table No. 54A July 15, 1928 Succeeding No. 54			Distance from Elma	Car Capacity of Sidings	THIRD CLASS						
995	993	989				990	994	996									
Ex. Sun. Way Freight	Ex. Sun. Way Freight	Ex. Sun. Way Freight				Ex. Sun. Way Freight	Ex. Sun. Way Freight	Ex. Sun. Way Freight									
			L10.30AM	TX	CH 25	0.0	SHELTON	25.2	120	A10.00AM							
			10.40		CH 24	1.3	1.3 CARMILL	23.9	Spur 10	9.50							
			11.10		CH 18	7.5	KAMILCHE	17.7		9.20							
			f11.20		CH 15	10.6	MARMAC	14.6	25	f 9.10							
			f11.40	W 1.0 East	CH 10	15.1	STIMSON	10.1	22	f 8.50							
			f11.45			16.0	MILLPORT	9.2		8.45							
			f11.50	X	CH 7½	17.4	HILLGROVE	7.8	14	f 8.40							
			11.55AM 12.30PM	X	CH 7	17.6	McCLEARY JUNCTION	7.6		8.35 8.10							
	L12.25PM 996	L 8.30AM 994			CH 8	18.4	McCLEARY	8.4	Spur 15		A 8.15AM 993	A11.59AM 995					
	A12.30PM	A 8.35AM		X	CH 7	17.6	McCLEARY JUNCTION	7.6			L 8.10AM	L11.55AM					
						20.9	WHITE LUMBER CO. R. R. Cr.	4.3									
			s12.50	WX	CH 4	21.1	WHITE	4.1	Spur 20	s 7.50							
			A 1.15PM	YX	C M 19	25.2	EF ELMA D	0.0	69	L 7.30AM							
Ex. Sun.	Ex. Sun.	Ex. Sun.								Ex. Sun.	Ex. Sun.	Ex. Sun.					
.05	.05	2.25					Time Over Subdivision			2.05	.05	.04					
10.0	10.0	10.0					Average Speed Per Hour			12.8	10.0	12.0					

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.
SPECIAL INSTRUCTIONS PAGES 13, 14 AND 15.

FIRST SUBDIVISION.

(MAIN LINE.)

1. **Pusher District**—Between Tenino Jct. and Castle Rock.
2. **Drawbridge Interlocking**—Chambers Creek, 1.4 miles east of Steilacoom. Lewis River, 2.5 miles west of Woodland.
3. **At Centralia and Chehalis** normal position of crossing gates over the several industry spurs which cross the C. M. St. P. & P. Ry. main track will be set and locked across the spurs, and when train on spur desires to use crossing, gates will be swung across C. M. St. P. & P. Ry. main track.
4. **At Pioneer**—Restricted clearance at Coal Dock Spur on back track.
5. **At Nisqually**—Train order signal next to depot governs First Subdivision trains, and signal next the Third Subdivision track governs Third Subdivision trains.
6. **Nelson Bennett Tunnel**—Headlight must be used by all trains passing through Tunnel between McCarver Street and Sixth Avenue.
7. **At Castle Rock**—Cars must not be left below derailling switch on Silver Lake Logging Company's connection.
8. **At Napavine**—Trains using Newaukum Valley Railway tracks will do so under protection of flag. Cars must not be left below derailling switch on Napavine Lumber Company's spur.
9. **At Ridgefield**—Cars must not be placed on Tie Spur between switch and lower road crossing at Shingle Mill, and, on account of heavy grade, cars must be fully secured when left standing. Eastward siding will be used as storage track.
10. **At Lewis River Bridge**—The assigned hours of the draw bridge tender are 8:00 A. M. to 4:00 P. M., but draw bridge tender is subject to call while off duty to operate bridge for river traffic. Should it become necessary to flag through this interlocking plant, it must first be ascertained if draw bridge tender is not on duty and then flagman must precede train in making this move and be absolutely sure that derails and rail locks are in proper position.
11. **At Vancouver**—Junction switch at east end of Columbia River Bridge will be set and locked for N. P. main track. Trains and switch engines using track leading to wharf will come to a stop before crossing S. P. & S. Ry. crossing, and will not proceed until a man has been sent ahead to flag the crossing. Westward trains will stop at passenger station before engine reaches point of clearance between N. P. and S. P. & S. tracks and must be under control before passing station, expecting to find main track occupied.
12. **At Portland**—Trains will be governed by the rules of the Northern Pacific Terminal Company while in Portland yard.
13. **Logs** must not be moved in trains after dark, except between Chehalis and Centralia, in which case a trainman will be stationed on the rear platform of the caboose with lighted lantern or fusee to watch for logs that may be lost from cars and obstruct opposite track. Trains handling logs are not permitted to meet regular or special passenger trains between stations and must not be permitted to meet any trains between stations after dark. Conductors will notify Dispatcher when there are logs in the train and secure train order that opposing trains are held as provided above. Cars with logs must be inspected to be sure they are safely loaded and secured. Logs Loaded on Flat Cars will not be handled through Nelson Bennett and Ostrander tunnels or across Lewis River bridge. This does not apply to logs loaded in gondola cars and properly secured, staked and wired.
14. **Rock** loaded on flat cars must not be handled through Nelson Bennett Tunnel unless secured on cars with side boards.
15. **Bridge and Engine Restrictions**—At Kalama when doing switching on Salmon track, enough cars must be used so that engine will not go on trestle. Northern Pacific engines, Classes Q-5, Q-6, W-3 and W-5 and Great Northern Class P-2, twenty (20) miles per hour over bridge 78, Olequa Creek between Vader and Vader Junction. Engines will not run on trestle of Port Commission located about 1,500 ft. from switch. Look out for locomotive crane also using this track. Do not exceed four (4) miles per hour on Port of Kalama spur and five (5) miles per hour on curve of Mountain Timber Company's spur. At Winlock, engines must not go beyond frog on Johnson's spur. At Tenino when switching Mud Spur, do not put engine beyond frog. Engines or cars must not be placed on the trestle at the end of the Hercules Stone Company's spur. Cars to be moved to and from the quarry will be handled by cable over the trestle by Stone Company. Loaded cars must not be placed on Felida log dump east of sign board at bent 51.
16. **Speed Restrictions**—Class W, or other freight engines, weighing 201,500 pounds or over on drivers; forty (40) miles per hour except Classes W-3 and W-5 thirty-five (35) miles per hour. Engines with drivers 48 inches in diameter, or less; twenty-five (25) miles per hour. Classes Q-5 and Q-6 engines sixty (60) miles per hour. O.-W. R. & N. engines of Consolidation, or Mikado Class; thirty-five (35) miles per hour, except Mikado class with drivers 63 inches diameter, or over, handling passenger trains; fifty (50) miles per hour. Mallet class of 3800 series, fifteen (15) miles per hour, and of 3600 series, twenty (20) miles per hour. Great Northern engines of 500, 700 and 1100 series; twenty-five (25) miles per hour. Class J-2 forty (40) miles per hour, class O-5 thirty-five (35) miles per hour. At Tacoma trains will approach crossover switches at South 21st Street (entering Union Station) and O.-W. R. & N. connection at 15th Street at restricted speed and will not proceed until tracks are known to be clear and signal is received from switch tender with green flag by day and green light by night. Trains will approach crossover switches on double track at cold storage plant opposite Tacoma Wharf at restricted speed and will not proceed until tracks are known to be clear. Limit speed on both tracks to ten (10) miles per hour from mile post seven (7), located one mile west of West Portal of Nelson's Bennett Tunnel to cross over one-half (½) mile west of mile post seven (7). All trains twenty (20) miles per hour between McCarver Street and Tacoma. At McCarver Street—All trains approach First Street Crossing East of Depot at restricted speed and sound whistle.

SPECIAL INSTRUCTIONS.

- At Pioneer—Between the hours of 7:00 a. m. and 11:00 p. m. account workmen crossing tracks, twenty (20) miles per hour. While passing gravel bunkers, sound whistle and ring bell. Look out for falling rock on eastward track along bluffs at first and second curves east of Mile Post 48, about one and one-fourth (1¼) miles west of Bucoda. On Westward track from one fourth (¼) mile East of yard limit sign East of Chehalis to first switch at Chehalis, twenty (20) miles per hour. Through rock cut east of Martin's Bluff on Eastward track, run at restricted speed keeping sharp lookout for falling rock. City or Village ordinances restrict speed of trains over highway crossings within corporate limits as follows: Winlock, twelve (12) miles per hour; Chehalis and Vader, twelve (12) miles per hour; Centralia, ten (10) miles per hour. Bucoda and Ridgefield, fifteen (15) miles per hour. At Sixth Avenue, over Sixth Avenue and Day Island street crossings, twenty-five (25) miles per hour. Trains running against current of traffic over these crossings six (6) miles per hour. From Mile Post 52 to Centralia Passenger Station, westward trains thirty-five (35) miles per hour. At Napavine, over street crossing just east of depot, fifteen (15) miles per hour. At Kelso, over Allen Street leading to bridge over Cowlitz River, fifteen (15) miles per hour. At Carrolls, between 7:00 a. m. and 7:00 p. m., approach highway crossing prepared to stop account teams hauling logs across track.
17. **Special Stops, Connections, Etc.**—No. 401 Sundays reduce speed at Bucoda, Tenino, Chambers Prairie to throw off papers. No. 402 will stop at stations east of Centralia to discharge passengers originating at points where No. 564 does not stop. No. 407 will connect with No. 502 at Centralia. No. 407 will stop at Knapps and Felida to discharge passengers and express from points East of Centralia. No. 407 will stop at Olequa for U. S. Mail. No. 408 will stop at Bucoda to unload express and discharge passengers from West of Chehalis and Grays Harbor Line and for passengers for Fort Lewis. No. 408 will stop at Evaline to receive and discharge parcel post. No. 408 on Sundays will slow up at Vancouver Junction to throw off papers. No. 563 will stop at stations west of Centralia to discharge passengers originating at points where No. 401 does not stop. No. 563 will stop at Kelso and Kalama to let off passengers from Grays Harbor Branch occupying space in the Grays Harbor to Portland Sleeper. No. 564 will dispatch United States mail at St. Clair. No. 591 will connect with No. 407 at Centralia.
 18. **Register Stations**—Tacoma-Union Station for passenger trains—River Street for freight trains. Centralia. Vancouver. Portland. McCarver Street.
 19. **Register Exceptions**—At Centralia and Vancouver enginemen will not be required to consult register but will be furnished register check, form 602 by conductor. At McCarver Street all trains register by ticket form 608.
 20. **Clearance Exceptions**—Clearance will not be required at McCarver Street by eastward trains if train order signal is in clear position.
 21. **Bulletin Stations**—Tacoma. Union Station, Round House, Yard Office. Centralia. Passenger Station, Round House, Yard Office. Vancouver. Passenger Station, Round House. Portland. Telegraph Office.
 22. **Standard Time Clocks**—Tacoma, Union Station, Round House, Yard Office. Centralia, Passenger Station, Round House, Yard Office. Vancouver Passenger Station.
 23. **Watch Inspectors**—Tacoma, S. Grimstead, 11th and Pacific Ave. Centralia, C. R. Ahern. Vancouver, Joseph Carter. Portland, W. H. Sexton, 245 Washington St.
 24. **Deraill Switches**—West Tacoma. Spur Track. Pioneer. East and West End, switch at West End to be set for straight track to act as derail. Gravel Center. East and West end. Olegard. East End Spur. Nisqually. Team Track and Set Out Track. Chambers Prairie. East End Industry Track. Plumb. Spur Track. Chain Hill Lumber Co. Spur Track. Wabash. Interlocking Derail on O.-W. R. & N. connection. Chehalis. On Coal Creek Lumber Co. Track about 250 feet from passing track switch. East end track No. 2, 165 feet from main line switch. Napavine. On Somerville and Emery Nelson spur tracks. On House track 110 feet west of switch connection with passing track. Evaline. West End Spur. Winlock. West End Passing Track and Union Oil Co. Spur. Menefee. 500 feet from main line switch. L. P. & N. Connection. Mile post 79-one mile west of Vader derails at East and West end of interchange track. Olequa. House Track.

Castle Rock	150 feet from main track on Silver Lake Log R. R.
Carrolls	House Track.
Longview Jct.	215 feet from main track.
Ely-Murphy Corporation	Spur track.
Ridgefield	O.-W. R. & N. Tie Spur, 600 feet from passing track switch.
Knapp	House Track.
Vancouver	On Wood Spur and Cannery Spur, both on switch leading to wharf freight house. East end lead No. 1 track on N. P. side. Coal track 180 feet from main track switch. 100 feet from main track.
McNelly	East and west end of Industry Track, 200 feet from switch.
Kyro	

25. Commercial Spurs—	Miles from Tacoma	Car Capacity
Pioneer	13.0	60
Gravel Center, (State Gravel Co.)	14.0	15
Cascade Paper Co. (West Tacoma)	14.4	6
Olegard	26.1	15
Chain Hill Lumber Co.	41.2	4
Menefee	73.2	24
McNelly	73.9	4
Cascade Timber Co.	85.0	10
Rocky Point	95.6	20
Ely-Murphy Corporation	108.5	3

26. **Consolidated passenger trains**—Nos. 401, 402, 407, 408 operated by Northern Pacific crews. Nos. 458, 459 by Great Northern crews. Nos. 561, 562, 563, 564 by O.-W. R. & N. crews.

27. **Between McCarver Street and Tenino:** The normal position of the train order signal will be "Stop" at: McCarver Street for Westward trains. St. Clair for all trains. Sixth Avenue for all trains. Chambers Prairie for all trains. Steilacoom for all trains. Tenino for Eastward trains. Nisqually for all trains.

The position of these signals will not be changed while operator is on duty, except when changed to clear position for a train to pass when the block is clear and no train orders, or to caution position for a train to pass when provided with a clearance card.

A train will not be permitted to leave McCarver Street Westward, Tenino Eastward, or Sixth Avenue, Steilacoom, Nisqually, St. Clair and Chambers Prairie in either direction, until the last preceding train has cleared the next open telegraph office in advance or reported clear of the main track at an intermediate siding, except upon authority of the Superintendent when the train must be given a clearance card endorsed, "Block is occupied by———" Trains receiving clearance cards so endorsed, must proceed at restricted speed thru territory so occupied.

Operators at these stations will keep a record showing the time trains pass their station and the next open telegraph station in both directions, reporting the time promptly to each other, and will not report trains clear at their station until they are into clear on the siding or the rear of the train has passed the telegraph office 300 feet.

When a train enters the siding at Pioneer, Ketron or Kyro to be passed by another train, they will report on the telephone to the next open telegraph office in the rear when into clear and will not proceed until the train which has passed clears the next open telegraph office in advance.

Work extras with orders to work on both tracks must not cross over from one track to the other without a clearance card authorized by the train dispatcher.

Crossover movements will be made subject to Transportation Rule D152. Before making such movements permission must be obtained from Operator.

In case communication fails, operator may not less than ten minutes after departure of the last preceding train, issue clearance card endorsed:

"Means of communication having failed proceed at restricted speed."

Trains must not pass a stop signal without receiving a clearance card or a train order authorizing them to do so except to do station work, take fuel or water, or enter siding in advance of a signal but such train must obtain clearance card before departing from that station.

SECOND SUBDIVISION.

(GRAYS HARBOR LINE.)

1. **At Olympia**—Tunnel district is protected by automatic electric disc signals located as follows: No. 1 (large disc) just west of passenger station. No. 2 (large disc) just east of passenger station. No. 3 (switch indicator) at east end of passing track. No. 4 (large disc) just east of tunnel. Eastward trains or engines finding signals 1 or 2 at stop will protect against westward trains coming out of tunnel. Signal No. 3 will govern eastward movement from passing track. Trains or engines coming from Jefferson Street line must have clear indication from signal No. 4 before opening main track switch. A crossing gate, with light at night, is maintained at Tumwater Spur crossing. Normal position of gate is locked across spur. Trains must be prepared to stop when gate is set against them. Track next to Bay used exclusively for repair track from West Switch to point 650 feet East of switch.
2. **Drawbridge Interlocking**—Wishkah River. Aberdeen. Hoquiam River. Hoquiam.
3. **At Gate**, normal position of the main track junction switch will be set for the ninth subdivision. Passing track from crossover West of Depot to the West Switch will be used as storage track.
4. **Gravel Bunkers**, Mile Post 58.6, bunkers will not clear man on top or side of car.
5. **At Montesano** depot is located one-half mile west of passing siding.
6. **At Olympia and Cosmopolis**—Northern Pacific trains will protect themselves while on O.-W. R. & N. tracks.

SPECIAL INSTRUCTIONS.

No. 502 will connect with Nos. 421 and 422 at Gate.
Mail Cranes installed at Union Mills, Lacey, Little Rock, Porter and Satsop for interchange of U. S. Mail with trains not scheduled to stop.

14. **Register Stations—**

St. Clair	Gate	Hoquiam	Cosmopolis
Olympia	Aberdeen	Moclips	Aberdeen Jct. for No. 422 and No. 968 Tuesday and Friday only.
15. **Register Exceptions—**
 At St. Clair trains will register by ticket, Form 608, and will be furnished Register Check, Form 602.
 At Gate Nos. 421, 422, 423 and 424 will register by ticket form 608 and will be furnished register ticket form 602 by operator.
 No. 992 will not require clearance card at Markham.
 At Aberdeen enginemen of C. M. St. P. & P. and O.-W.R. & N. westward trains will not be required to consult the register, but will be furnished Register Check, Form 602 by conductor.
16. **Clearance Exceptions—**
 At St. Clair westward trains will not require clearance if train order signal is in clear position.
17. **Bulletin Stations—**
 Hoquiam Passenger Station and Roundhouse.
18. **Standard Time Clock—**
 Hoquiam Passenger Station and Round House.
19. **Watch Inspectors—**

S. J. Stieglitz	Aberdeen.
Fred Straub	Hoquiam.
Talcott Bros.	Olympia.
D. P. Pearson	Elma.
20. **Derail Switches—**

Union Mills	West end rollway spur.
Olympia	Rip Track, 565 feet from West Switch.
Belmore	White's Log Spur.
Bordeaux Junction	Mason County Log Spur.
Gate	Coal Track and west end passing track.
Malone	East end spur track and west end mill track.
Elma	East end of Horn Track and east end of east leg of Wye.
Satsop	East end of siding.
Brady	Hayes spur and switch leading to Schaeffer Bros. Store, switch to be left set for spur to act as derail for track leading to Nor. Pac. main track.
Schafer	Both ends of interchange track.
Montesano	Switch leading to industry spur west end of Team Track to be left set for spur to act as derail for Team Track.
Paramount Lumber Co.	141 feet from Main Track.
Copalis	Log spur 500 feet west of station, house track East end.
Carlisle	East end of siding.
Joe Creek	Log spur just west of Aloha.
Hobi	150 feet from main track.
Gibson Creek	Both ends of siding.
Weatherwax Lumber Co.	150 feet from main track.
St. Clair	East end of siding.
Aloha	East end of passing siding.
Moclips	On Smith Logging Co. track west of depot and interchange track.
Port of Grays Harbor	Derails installed on Aberdeen and Hoquiam end of connection with Port tracks.

21. Commercial Spur—		
	Miles from St. Clair	Car Capacity
Black Lake	13.2	3
Gibson Creek	38.0	25
Schafer	54.0	10
Gravel Bunkers	58.6	12
Standard Oil Co.	58.7	3
Paramount	76.5	2
North Bay Lumber Co.	79.0	6
Linde Shingle Co.	93.5	4
Linde Logging Co.	93.6	6
Wooster	96.0	10
Joe Creek	97.4	2
Hobi	97.8	3

THIRD SUBDIVISION. (AMERICAN LAKE LINE.)

1. **At Nisqually** train order signal next to Third Subdivision track governs Third Subdivision trains, and the signal next to depot governs First Subdivision trains.
2. **At Fort Lewis**, entrance to Dupont Powder Co. plant protected by gate across the spur near Cap Magazine. No cars will be disturbed inside of gate until foreman consulted and permission obtained.
 Staff System Dupont Spur: No train or engine will move on the Dupont Powder Co. spur until they have obtained a staff from the staff box at the Junction switch. Possession of the staff makes a train superior to all other trains on this spur. After completion of the trip the staff must be returned to the staff box.
 Cantonment Tracks:
 North and South lines operated under staff system.
 Speed of fifteen (15) miles per hour must never be exceeded.

Train must stop and flagman protect movement when backing or pushing cars ahead of engine over street crossings. All movements over Pacific Highway must be protected by flagman.
 Toilets must be kept locked and no refuse thrown from trains on Cantonment Tracks, Fort Lewis, Nisqually, or inside yard limits Fort Lewis.
 At Remount Station, loading platform will not clear man on side of car.
 Trains using North and South lines will move at restricted speed at all times expecting to find cars spotted at different locations on these tracks.
 Staff System North and South Lines: No train or engine will move on the North line until they have obtained a staff from the North Line staff box at the Junction switch, and will not move on the South Line until they have obtained a staff from the South Line staff box at the Junction switch. Possession of the staff makes a train superior to all other trains on that line and after completion of the trip the staff must be returned to the staff box from which it was obtained.

3. **Speed Restrictions—**
 Passenger trains fifty (50) miles per hour.
 At Camp Murray, ten (10) miles per hour over road crossing just east of station.
 At Fort Lewis, approach road crossings at east and west end Green Park at restricted speed; ring bell and sound whistle.
4. **Register Stations—**
 Nisqually Lakeview
 Fort Lewis for trains originating and terminating.
5. **Register Exceptions—**
 At Nisqually and Lakeview trains register by ticket, Form 608, and will be furnished check of register by train order or Form 602.
6. **Clearance Exceptions—**
 At Lakeview and Nisqually trains will not require clearance if train order signal is in clear position.
7. **Derail Switches—**

Lakeview	Standard Oil Spur.
Military Spur	456 feet from main line switch.
Fort Lewis	Dupont Powder Co. spur 950 feet from main track and on the track leading to Black Powder Mill.
	Green Park Spur 177 feet from main track.
	House Track switch will be set for House Track to act as derail for west end of passing track.

FOURTH SUBDIVISION. (PRAIRIE LINE.)

1. **Pusher District** between Tenino Jct. and Rainier and between Tacoma and South Tacoma.
 Engines pushing westward passenger trains over Tacoma Hill will not cut off from train until the rear end of the train is over Bailey Street crossing, speed of train to be reduced to ten miles per hour before pusher is cut off.
2. **Card train order form AB**—Will govern the movement of trains between Reservation and the 15th St. Tower via Drawbridge Line and trains must not move in this territory unless conductor and engineman each hold a copy properly filled out.
3. **At Tacoma**—A signal arm semaphore pattern, located near junction of line leading to Union Station and Drawbridge Line at 15th Street, is controlled by operator at 15th Street and will govern single track passenger line between 15th Street and Union Station. No train from the Drawbridge Line or east of main line will enter Union Station when signal is at stop. No train will proceed from Union Station to Drawbridge Line or eastward main line when signal on incline, which is equipped with two red blades by day, and in addition, two red lights by night, is at stop. Lower arm governs train movements from Union Station to Drawbridge Line; upper arm governs movement to eastward main track.
 Push button operating signal to towerman is located on post under Union Station concourse; switch crews will operate for Portland bound rains and conductors will operate for Seattle bound trains.
4. **Mountain Grade**—15th Street, Tacoma, to 2½ miles west.
 At South Tacoma—Test inspection and understanding as required by Rule 1003, Book of Transportation Rules, will be had on all eastward freight trains.
 Conductors will fill out card, Form 3632, and deliver to the operator who will complete and mail to Superintendent, Tacoma, each day. Retainers will be turned up on all cars before descending Tacoma Hill.
 At Tacoma—Enginemen on road engines, on eastward trains, before backing into Union 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 Union Station, leaving brakes applied after making the stop.
 At Union Station, enginemen on road engines 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.
 Eastward trains will approach Pacific Avenue under control and be governed by signal No. 4 located at gate tower of Pacific Avenue and controlled from 15th Street Tower.
 Top arm of this signal governs movements on Eastward main track; lower arm governs movements on eastward main track over crossover to Drawbridge Line or from Eastward track through pocket back of crossover track.
 Automatic signals T-1-A and T-2-A controlling the short piece of single track between Half Moon yard, Tacoma and double track switch on Fourth subdivision.
 Trains or engines using crossover located between these Signals, to enter this single track which are located between these signals must do so expecting to find track occupied by other trains or engines who received a clear indication.

7. **At Bordeaux Junction** on the Mason County Logging Company tracks a siding is located 1985 feet from the Junction switch where interchange of cars will be made. Northern Pacific trains will look out for the Logging Co. trains and must not block their passenger trains from connecting with Nos. 421, 422, 423 and 424. Normal position of switch leading to spur track at Bordeaux Junction which is used by Mason County Logging Company's trains in making connection with Northern Pacific passenger trains will be left for spur, derailing switch is located between this spur and Northern Pacific main track and must be left in derailing position after using.
8. **At Aberdeen** all trains and engines will move at restricted speed within Yard Limits. This rule does not supersede Transportation Rules S93 and D93, and first class trains must be protected against within yard limits. The normal position of switch at the end of double track, 250 feet east of passenger station, is for eastward trains, and normal position of Junction switch, ten feet east of double track switch, is for the O.-W. R. & N. track.
 Westward trains will stop East of Chehalis Street when Wishkah River draw bridge signals do not indicate clear route.
9. **At South Aberdeen and Cosmopolis** trains and yard engines will stop at grade crossings of the O.-W. R. & N. Co. industry tracks.
10. **At Hoquiam** all trains and engines will move at restricted speed within yard limits. This rule does not supersede Transportation Rules S93 and D93, and first class trains must be protected against within yard limits. This rule must be observed while passing through the limits of Hoquiam River drawbridge interlocking plant.
 At the draw bridge, gauntlet extends 496 feet from the double track frog to the double track switch points. The second signal east of draw bridge may indicate clear while a train or engine occupies the gauntlet.
 Staff System Hoquiam River Spur—No train or engine will move on the Hoquiam River Spur until they have obtained a staff from the staff box at the Junction switch. Possession of the staff makes a train superior to all other trains on this spur. After completion of trip staff must be returned to the staff box.
 Track No. 2 has been assigned for storing of bad order cars. Cars must not be placed on this track by road crews unless authorized personally by Yardmaster.
11. **Bridge and Engine Restrictions—**
 Speed will be restricted over Bridge 9, Des Chutes River; Bridge 46, Cloquallum River; Bridge 82, Chenois River; Bridge 84, Berg Slough; Bridge 86, Humpstulps River; Bridge 91-1, Copalis River, and Bridge 97, Joe Creek, as follows:
 Engines Classes heavier than W2 not permitted.
 Engines Classes W, W-1, W-2 and W-4 ten (10) miles per hour.
 Double header engines Classes Q, Q-1, Q-2, Q-3, Q-4, T, S, S-1, S-2, S-3 and S-4 at twenty (20) miles per hour.
 Engines Classes A, Q-5, Q-6, W-3, W-5 and heavier, and double header engines Classes W, W-1, W-2 and W-4 will not be permitted.
 Speed will be restricted over draw spans of Bridge 68, Wishkah River, and Bridge 72, Hoquiam River to twenty (20) miles per hour.
 Aberdeen Jct. to Markham—Speed will be restricted over Bridge 1, Chehalis River, as follows:
 Engines Classes S, S-1, S-2, S-3, S-4 and Q will not exceed eight (8) miles per hour.
 Double header engines class F1 will not exceed eight (8) miles per hour.
 Engines classes T, Q1 and heavier will not be permitted.
 At Olympia—Engines heavier than Class F-1, are not permitted on trestle leading to industries on West Side.
 Engines not permitted on Panama Lumber & Shingle Co. spur.
 Aberdeen Junction to Cosmopolis, Cosmopolis to Markham: Engines classes heavier than F1 not permitted.
 At Markham: Engines not permitted on Red Cedar Shingle Co. Spur.
 At Aloha: Engines heavier than class F1 not permitted on Mill Spur.
 At Aberdeen: Engines heavier than S4 must not be placed on trestle at Weatherwax rollway.
12. **Speed Restrictions—**
 Passenger trains forty-five (45) miles per hour between St. Clair and Hoquiam; thirty-five (35) miles per hour between Hoquiam and Copalis; twenty-five (25) miles per hour between Copalis and Moclips.
 Freight trains twenty-five (25) miles per hour between Hoquiam and Moclips.
 Engines Classes Y-2, W and W-2 thirty (30) miles per hour.
 All trains twenty (20) miles per hour between Aberdeen Junction and Markham, except ten (10) miles per hour between Mile Post 3 and Mile Post 7.
 Through Subway at Olympia, and around curve at east end of subway, fifteen (15) miles per hour.
 Between Standard Oil Spur east of Aberdeen and Wishkah Street fifteen (15) miles per hour.
 Around curve along Chehalis River, and for 600 feet west of curve, between Mile Post 62 and 62½, three miles east of Aberdeen Junction, twenty (20) miles per hour.
 Around high bluffs at Grays Harbor City, fifteen (15) miles per hour.
 Trains handling logs, five (5) miles per hour between west end Hoquiam River drawbridge and street crossing west of passenger station at Hoquiam.
 At Aberdeen ten (10) miles per hour over streets and crossings used by public and twenty (20) miles per hour elsewhere within city limits.
 Five (5) miles per hour passing through paved street between Wishkah River drawbridge and log rollway one mile east of Aberdeen.
 At Grass Creek located three-fourths (¾) miles West of Mile Post 79, Grays Harbor Line, gasoline propelled lumber carriers are being used in crossing main track to and from mill located at that point.
 Enginemen keep sharp lookout and sound whistle approaching crossing.
13. **Special Stops, Connections, etc.—**
 No. 424 will stop on flag at Mima Sunday only.
 No. 424 will stop on flag at Little Rock Friday only.
 No. 422 will stop at Wynooche Spur to discharge passengers.
 No. 423 will stop on flag at Lacy Sunday only.
 Nos. 421 and 422 will stop on flag at North Bay Lumber Co. Mill one mile east of Gray Gables and at Linde Spur located one-half mile west of Onslow also one-half mile east of Burrows to pick up and let off school children, at Gillies Slough 1½ miles west of Chenois Creek and at Hobi Spur.

SPECIAL INSTRUCTIONS.

5. **At Tenino Junction**, westward trains must stop clear of automatic signal No. 43.5, and if switch indicator shows block on the First Subdivision is clear, will open Junction and Crossover switches leading to the First Subdivision main track: then, if signal 43.5 indicates caution, crossover movement may be made, but if signal 43.5 indicates stop, the movement must be protected by flag.
6. **At South Tacoma**, normal position of double track switch is for eastward track. Passing siding will be used as storage track.
7. **Logs**—may be handled after dark on double track between South Tacoma and Tacoma but will not be permitted to meet any train except switch engines and switching trains. Conductors will notify Dispatcher when there are logs in the train and secure train order that opposing trains will be held as provided above. Trainmen must be stationed on rear platform of the Caboose with lighted lantern or fusee to watch for logs that may be lost from cars and obstruct opposite track. Trains handling logs will run via Half Moon yard pulling train in reverse order to River St. Yard.
8. **Bridge and Engine Restrictions**—
Bridge 12.3 on what is known as the Dempsey or Tide Flat Branch (Tacoma Terminal). Heavier than Class Q engines not permitted. Speed of other engines over this bridge, eight (8) miles per hour.
Northern Pacific engines, classes Q-5, Q-6, W-3 and W-5 and Great Northern class P-2, thirty-five (35) miles per hour over Bridge No. 22-1, Nisqually River between Roy and Yelm, and over Bridge No. 33, Deschutes River, between Rainier and McIntosh.
At McIntosh: Engines will not go beyond a point 250 feet from west end of loading track.
At Tacoma Union Depot Great Northern engines, Class P-2 will not clear train sheds except on track No. 1 which is the track next to the depot.
9. **Speed Restrictions**—
Passenger trains: between South Tacoma and Lakeview, fifty (50) miles per hour; between Lakeview and Yelm, sixty (60) miles per hour; between Yelm and West Tenino, fifty (50) miles per hour.
Trains and light engines entering or leaving passenger station at Tacoma from the fourth sub-division limit speed to ten (10) miles per hour while any portion of train is passing over switches at Fifteenth Street Tower.
At Tacoma six (6) miles per hour while any portion of train is passing over Pacific Avenue.
At South Tacoma, fifteen (15) miles per hour entering double track.
At Roy, ten (10) miles per hour within corporate limits.
At Russell Shingle Mill, one mile east of West Tenino, look out for logging trucks crossing track.
Passenger trains 30 miles per hour and freight trains 20 miles per hour on descending grade between Bailey Street and Pacific Avenue.
Trains entering or leaving Union Station will move at restricted speed between 15th Street and 21st Street.
Northern Pacific Engines classes W, W-1, W-2 and W-4 forty (40) miles per hour. Classes W-3 and W-5 thirty-five (35) miles per hour.
Great Northern Engines classes J-2 forty (40) miles per hour. Class O-5, thirty-five (35) miles per hour.
10. **Special Stops, Connections, etc.**—
Nos. 591 and 592 will stop on flag at Wetico.
11. **Register Stations**—
15th Street Tower
South Tacoma Tacoma West Tenino
12. **Register Exceptions**—
At 15th Street Tower, South Tacoma and West Tenino, first class trains will register by ticket, Form 608, and will be furnished check of register by train order or Form 602, except when operator not on duty.
Except No. 458 will not register at West Tenino and South Tacoma and No. 459 will not register at West Tenino.
13. **Clearance Exceptions**—
At West Tenino and South Tacoma, eastward trains will not require clearance if train order signal is in clear position.
At South Tacoma, Westward trains will not require clearance if train order signal is in clear position.
14. **Bulletin Stations**—Tacoma.
15. **Derail Switches**—
South Tacoma.....East end South Tacoma Lumber Co.'s Spur.
South Tacoma.....East end New House Track.
Yelm.....East end House Track.
McKenna Lbr. Co.....On Spur.
Rainier.....Lindstrom-Handforth Lumber Co. Spur.
Mutual.....Spur track leading to mill.
West Tenino.....Tenino Stone Co. Spur.
Mentzer.....Track leading to siding.
16. **Commercial Spurs**—

	Miles from Tacoma	Car Capacity
Triangle Lumber Co.....	23.1	2
McKenna Lumber Co.....	23.2	10
Wetico.....	32.0	20
Mentzer.....	32.9	15
Russell Shingle Co.....	37.1	6
Mutual.....	37.6	15

FIFTH SUBDIVISION.
(BUCKLEY LINE AND BRANCHES.)

1. **Pusher District**—
Between South Prairie and Buckley.
Between South Prairie and Carbonado.
2. **At Enumclaw**—While using main track of White River Lumber Co., between Junction Switch with C. M. St. P. & P. and yard limit sign located 2,000 feet east, all movements will be made in accordance with transportation rule S93.

3. **At Carbonado**, ½ mile east, crossing gates are maintained at crossing with Carbon Hill Coal Company track. Normal position of gates "clear" for Northern Pacific Company's trains, which must approach crossing at restricted speed expecting to find gates set against them.
4. **At Cascade Junction and South Prairie** normal position of double track switches is for eastward track.
5. **Bridge and Engine Restrictions**—
Cascade Jct. to Wilkeson and Fairfax—Speed will be restricted over Bridge 1, South Prairie, and Bridge 4, Gale Creek, as follows:
Engines classes W, W-1, W-2 and W-4 eight (8) miles per hour.
Double header engines classes W, W-1, W-2 and W-4 not permitted.
Engines classes A, Q-5, Q-6, W-3, W-5 and heavier not permitted.
Speed will be restricted over Bridge 7-1, Carbon River as follows:
Engines classes S, S-1, S-2, S-3, S-4 and Q eight (8) miles per hour.
Double header engines class F-1 eight (8) miles per hour.
Engines classes T, Q-1 and heavier not permitted.
Black Carbon to Cascade Jct.—Engines classes heavier than S-4 not permitted.
6. **Speed Restrictions**—
Between Palmer Junction and Meeker: Passenger trains, fifty (50) miles per hour. Between Cascade Junction and Black Carbon, and between Cascade Junction and Fairfax: Passenger trains, twenty-five (25) miles per hour; freight trains fifteen (15) miles per hour. Backing up between these points passenger trains, twenty (20) miles per hour; freight trains, ten (10) miles per hour.
At Enumclaw and Burnett, ten (10) miles per hour through corporate limits.
At Buckley, six (6) miles per hour through corporate limits.
At Orting, fifteen (15) miles per hour except between Bridge street and Leiber street, ten (10) miles per hour.
Reduce speed to four (4) miles per hour over cribbed track where mine cave in occurred one and one-half (1½) Miles East of Carbonado.
Reduce speed to four (4) miles per hour where fill is slipping 2340 feet east of Mile Post 3 between Carbonado and Fairfax.
7. **Special Stops, Connections, etc.**—
No. 596 will connect with No. 526 at South Prairie.
No. 597 will connect with Seattle Division No. 450 at Puyallup and No. 523 at South Prairie.
Train No. 597 will stop on flag at Broomfield.
8. **Register Stations**—Cascade Junction for trains to and from Wilkeson and Burnett Branches and westward first class trains only.
Fairfax Palmer Junction South Prairie
9. **Register Exceptions**—Palmer Junction trains register by ticket Form 608 and will be furnished check of register by train order or Form 602.
10. **Clearance Exceptions**—Eastward trains will obtain clearance at Puyallup instead of Meeker.
No. 529 will not require clearance card at Black Carbon.
11. **Bulletin Station**—South Prairie.
12. **Derail Switches**—
Dencla.....East End Spur.
Big Six.....300 feet east of main line switch.
Occidental.....Coal track 300 feet west of bunkers.
Bayne.....Coal spur.
Fleet.....Fleet Coal Company's track.
Naco.....Hyde Coal Company's spur, first derail 190 feet from main line; second derail 920 feet from main line.
West end Naval Coal Co. track.
West end spur track.
Webstone.....Spur track
Buckley.....McDougal Log Track, and on west end Standard Oil spur.
South Prairie.....West end passing track. West end house track. West end coal spur. Turn table track.
Broomfield.....165 feet from main line switch and 369 feet from main line switch.
Crocker.....West end passing track.
Orting.....West end house track. West end westward passing track. West end Orting Branch track 300 feet east of station.
Alderton.....West end of siding.
Wilkeson.....Scale track, and passing track opposite station.
Burnett (250 feet from).....West end of siding. Black Carbon Coal Co.'s spur.
Fairfax.....On Montezuma line 200 feet east of depot.
Black Carbon.....Black Carbon Coal Co. track No. 1, 100 feet from main track switch.
13. **Commercial Spurs**—

	Miles from Palmer Junction	Car Capacity
Dencla.....	0.5	2
Big Six.....	1.7	10
Fleet.....	3.2	20
Birch.....	7.9	6
Webstone.....	12.5	4
Broomfield.....	19.6	15

SIXTH SUBDIVISION.
(GREEN RIVER BRANCH.)

1. **Between Halmar and Kerriston** extra trains must protect against Logging Company trains. All trains will sound whistle approaching curves.
2. **At Selleck** trains will run at restricted speed and look out for engines of the Pacific States Lumber Company between 1000 feet west of siding and the Pacific States Lumber Co. office.

3. **Bridge and Engine Restrictions**—
Speed will be restricted over Bridge 6-1, Cedar River, as follows:
Engines classes S, S-1, S-2, S-3, S-4 and Q eight (8) miles per hour.
Double header engines class F-1 eight (8) miles per hour.
Engines classes Q-1 and heavier not permitted.
Kanaskat to Kerriston and Selleck—Engines classes heavier than S-4 not permitted.
4. **Speed Restrictions**—
Passenger trains twenty (20) miles per hour; freight trains fifteen (15) miles per hour.
Between Halmar and Kerriston ten (10) miles per hour.
5. **Register Station**—Kanaskat.
6. **Clearance Exceptions**—
No. 531 will not require clearance card at Kerriston.
No. 533 will not require clearance card at Selleck.
No. 534 will not require clearance card at Kangley Jct.
7. **Derail Switches**—
Durham.....East end of coal track 250 feet from main track, and west end of coal track, Elk Coal Co. 700 feet from main track switch.
Hiawatha.....East end.
Yandell.....West end.
Selleck (1½ miles west).....On Kangley Line.
Hemlock.....West end siding.
Halmar.....In main track 60 feet from west wye switch; also, 550 feet from wye switch on Northwest Lmbr. Co. spur. This spur forms tail end of wye at Halmar and switch must be left in derail position.
Monroe Shingle Co.....East end.
8. **Commercial Spurs**—

	Miles from Kanaskat	Car Capacity
Monroe Shingle Co.....	13.8	3

SEVENTH SUBDIVISION.
(CROCKER BRANCH.)

1. **Staff System Crocker Branch**—No train or engine will move on the Crocker Branch until they have obtained a staff from the staff box at the Junction switch. Possession of the staff makes a train superior to all other trains on this branch. After completion of the trip the staff must be returned to the staff box and Dispatcher wired departing and arriving time and mileage made on the Branch.
2. **At Wingate**, side and overhead clearance is restricted at the Coke and Coal Bunkers.
3. **Bridge and Engine Restrictions**—
Engines classes heavier than F-1 not permitted.
Speed will be restricted over Bridge 3, Carbon River, as follows:
Engines classes S, S-1, S-2, S-3, S-4 and Q eight (8) miles per hour.
Double header engines class F-1 eight (8) miles per hour.
Engines classes T, Q-1 and heavier not permitted.
At Crocker—Engines can only use 200 feet of East end and 300 feet of West end of Coke Oven track No. 1.
4. **Speed Restrictions**—Twenty (20) miles per hour.
Five (5) miles per hour over Slide ¼ mile west of tunnel No. 1.
5. **Derail Switches**—
Crocker.....In main track east end of yard.
Wingate.....West end of siding, and 600 feet east of depot at west end of Coal Bunkers.

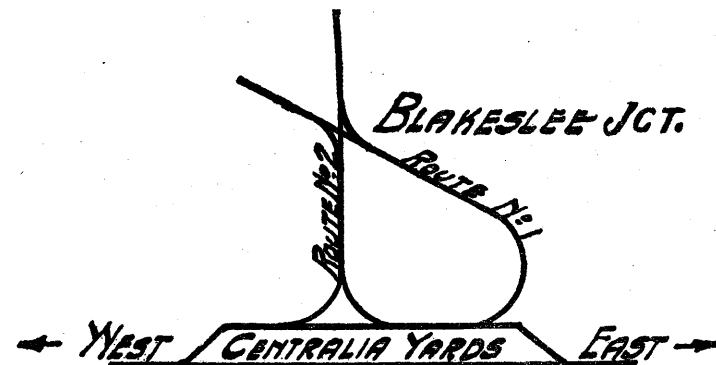
EIGHTH SUBDIVISION.
(ORTING BRANCH.)

1. **At Puyallup River Junction**—one mile east—crossing gates are maintained at crossing with C. M. St. P. & P. Ry. Normal position of gates "clear" for Northern Pacific Company trains, which must approach crossing at restricted speed expecting to find gates set against them.
2. **At Lake Kapowsin**—Engine or loaded cars must not be placed on the trestle on interchange track of the St. Paul and Tacoma Lbr. Co.
3. **Bridge and Engine Restrictions**—
Engines classes heavier than S-4 not permitted.
Speed will be restricted over Bridge 8, Puyallup River, as follows:
Engines classes S, S-1, S-2, S-3, S-4 and Q eight (8) miles per hour.
Double header engines class F-1 eight (8) miles per hour.
Engines classes T, Q-1 and heavier not permitted.
4. **Speed Restrictions**—
Twenty (20) miles per hour except between Puyallup River Junction and Lake Kapowsin, ten (10) miles per hour.
5. **At Puyallup River Junction**—Northern Pacific trains will look out carefully for St. Paul & Tacoma Lumber Company's engines and logging trains, using main track within yard limits.
Between the hours of One (1) P. M. and Twelve (12) midnight Northern Pacific trains will protect against St. Paul & Tacoma Lumber Company's logging engines and trains using main track between Puyallup River Junction and Lake Kapowsin.
6. **Derail Switches**—
Puyallup River Jct....In main track 20 feet west of west switch of interchange track.
7. **Commercial Spurs**—

	Miles from Orting	Car Capacity
Dempsey.....	8.4	12
Electron Rock Crusher.....	8.6	10

NINTH SUBDIVISION. (GATE LINE.)

1. Movement of Trains Between Centralia and Blakeslee Junction—



Northern Pacific track will be known as Route No. 2. O.-W. R. & N. track will be known as Route No. 1. Both routes are included in the Centralia Yard limits. Trains and engines using either route will do so at restricted speed. Eastward movements will be made over Route No. 2. Westward movements will be made over Route No. 1. First Class trains to and from Routes No. 1 and No. 2 will move at restricted speed between Centralia passenger station and connection with these Routes. This rule does not supersede Transportation Rules S-93 and D-93, and first class trains must be protected against within yard limits.

2. **Blakeslee Junction Interlocking—**
Westward trains will indicate to Towerman route wanted as follows:
Northern Pacific: One long, one short, one long. Thus: — o —
O.-W. R. & N.: One long, two short, one long. Thus: — o o —
3. **Bridge and Engine Restrictions—**
Centralia to Gate—Engines classes heavier than W-2 not permitted.
4. **Speed Restrictions—**Passenger trains forty-five (45) miles per hour. At Blakeslee Junction: Fifteen (15) miles per hour over C. M. & St. P. Ry. crossing. Engines classes Y-2, W and W-2 thirty (30) miles per hour.
5. **Special Stops, Connections, etc.—**
Regular passenger trains will stop on flag at State Training School at Grand Mound for passengers or to unload express. No. 503 will connect with Nos. 407-408. No. 505 will connect with Nos. 458 and 459 at Centralia.
6. **Register Station—**
Centralia Passenger Station.
Blakeslee Junction for Eastward Northern Pacific and O.-W. R. & N. first class trains, Northern Pacific second class and inferior trains will register only when instructed by train order to do so.
7. **Register Exceptions—**
At Centralia Enginemen will not be required to consult register but will be furnished register check, form 602, by conductor.
8. **Clearance Exceptions—**
Nos. 578 and 988 will not require clearance card at Blakeslee Jet.
9. **Bulletin Stations—**
Centralia. Round House. Yard Office.
Passenger Station.
10. **Standard Time Clock—**Centralia Passenger Station. Round House. Yard Office.
11. **Watch Inspector—**Centralia, C. R. Ahern.
12. **Derail Switches—**
Blakeslee Williams Mill Spur.
Foran Coal Spur.
13. **Commercial Spur—**
Foran
Miles from Centralia 2.9 Car Capacity 6

TENTH SUBDIVISION. (MENDOTA BRANCH.)

1. **Engine Restrictions—**
Engines classes heavier than (S4) not permitted.
At Mendota Engines must not go beyond derail on Mendota Timber Co. spur.
2. **Speed Restrictions—**
Twenty-five (25) miles per hour from Wabash to West end of curve ½ mile East to Mile Post 2. 12 miles per hour from West end of curve East of Mile Post 2 to Mile Post 3. 20 miles per hour from Mile Post 3 to Bridge 4-2. 10 miles per hour over Bridge 4-2. 20 miles per hour from Bridge 4-2 to Mendota. Four (4) miles per hour over filled portion of bridge No. 5.
3. **Register Stations—**
Centralia. Roundhouse. Yard Office.
Passenger Station.
4. **Clearance Exceptions—**
No. 979 will not require clearance card at Mendota.
5. **Bulletin Stations—**
Centralia. Roundhouse. Yard Office.
Passenger Station.
6. **Derail Switches—**
Mendota Connection with Martin Log Spur.
Eastern Ry. and Lumber Co.
Ultran & Rozencranz Spur, 150 feet from main track switch.
7. **Commercial Spur—**
Miles from Wabash Car Capacity
Ultran & Rozencranz Logging Co. 6.1 10
Olympia Coal Co. 6.4 4
Eastern Ry. & Lumber Co. Spur No. 3. 6.5 20
Eastern Ry. & Lumber Co. 7.8 20
Posts Spur. 4.5 5

SPECIAL INSTRUCTIONS.

ELEVENTH SUBDIVISION. (WILLAPA HARBOR LINE.)

1. **Pusher District—**Between Pe Ell and Frances.
2. **At Dryad, 300 feet east and**
At McCormick, 6-10 miles east, gates are maintained at railroad crossings at grade. Normal position of gates "clear" for Northern Pacific Co. trains, which must approach crossings at restricted speed expecting to find gates set against them.
3. **At Dryad, on Leudinghaus Lumber Co. spur, gates are maintained at crossing with main line of C. M. St. P. & P. Ry. Co.** Normal position of gates "clear" for C. M. St. P. & P. Ry. Co. trains.
4. **At Walville Lumber Co. R. R. Crossing:** One and one-half miles west, gates are maintained, normal position of gates "clear" for Northern Pacific Co. trains which must approach crossing at restricted speed expecting to find gate set against.
5. **At Raymond, low platform at the end of Siler-Willapa Lumber Co. spur will not clear foot-board or pilot of engine.**
Draw bridge tenders on duty 7.00 A. M. to 11.00 P. M., Bridge will be left open when tenders not on duty. Trains will not pass over drawbridge until proceed signal is recieved from drawbridge tender using a yellow flag by day and yellow light by night.
All trains will come to a full stop before passing over Ocean Beach Highway which is located about Two Hundred Fifty (250) feet West of the depot.
All trains while switching over this crossing will protect same with a man on foot before using it.
In switching Quinault Lumber Co. tracks engines must not go beyond First Street. Sufficient cars must be handled in doing work, so as to avoid going beyond this street.
6. **Bridge and Engine Restrictions—**
Speed will be restricted over Bridge 2-1 and Bridge 38, Willapa River, as follows:
Engines classes T, Q-3, Q-4, W, W-1, W-2 and W-4 eight (8) miles per hour.
Double header engines classes T, Q-3, Q-4, W, W-1, W-2 and W-4 not permitted.
Engines classes A, Q-5, Q-6, W-3, W-5 and heavier not permitted.
Speed will be restricted over Bridge O, Newaukum River; Bridges 5, 6, 16-1 and 23, Chehalis River; Bridges 42 and 45, Willapa River, as follows:
Engines classes W, W-1, W-2 and W-4 eight (8) miles per hour.
Double header engines classes W, W-1, W-2 and W-4 not permitted.
Engines classes A, Q-5, Q-6, W-3, W-5 and heavier not permitted.
Speed will be restricted over draw span of Bridge 53, Willapa River, to twenty (20) miles per hour.
Chehalis to South Bend—Engines classes Y and heavier twenty-five (25) miles per hour.
At Lebam, Engines Class Y-2 or heavier not permitted on Lebam Timber Company's Spur.
At Raymond, engines heavier than Class F not permitted on Quinault Lumber Company's Spur.
7. **Speed Restrictions—**
Passenger trains forty (40) miles per hour, except between Pe Ell and Frances, thirty (30) miles per hour.
At Raymond, ten (10) miles per hour over Seventh Street crossing.
Engines, Classes Y and heavier, thirty (30) miles per hour except between Pe Ell and Frances, twenty-five (25) miles per hour.
8. **Special Stops, Connections, etc.—**
No. 591 and No. 592 will stop on flag at Fern Spur.
No. 593 and No. 594 will stop on flag at Fern Spur on Saturday and Sunday.
Exchange of U. S. mail is made at Globe and Willapa with No. 591 and at Willapa with Nos. 592 and 594.
9. **Register Stations—**
South Bend. Chehalis.
10. **Bulletin Stations—**South Bend.
11. **Watch Inspectors—**S. Holte, South Bend.
12. **Derail Switches—**
Littell East and west end Chester Snow Mill Spur.
Bunker East and west end interchange track.
Meskill West and east end quarry track and east end mill track.
Doty 150 feet from main track switch.
McCormick Junction 200 feet from main track switch.
Walville Mill Spur.
Pluvius East and west end of siding.
Frances House track west end.
Fern 150 feet from main line switch.
Custer Log Spur.
Lebam Mill Spur.
Nalpee Log Spur.
Dryad Leudinghaus Lumber Co. 500 feet from main track.
Donguire 146 feet from main track switch.

13. **Commercial Spurs—**
Miles from Chehalis Junction Car Capacity
Donguire 20.5 15
Fern 33.6 30
Custer 34.2 25
Star Timber Co. 38.7 8
Mayfair 55.6 20

TWELFTH SUBDIVISION. (YACOLT BRANCH.)

1. **Bridge and Engine Restrictions—**
Speed will be restricted over Bridge 23, Lewis River, as follows:
Engines classes S, S-1, S-2, S-3, S-4 and Q eight (8) miles per hour.
Double header engines classes F-1 eight (8) miles per hour.
Engines classes Q-1 and heavier not permitted.
Vancouver Jct. to Yacolt—Engines classes heavier than S4 not permitted.
At Yacolt, do not place engines on spar spur.
2. **Speed Restrictions—**
Passenger trains thirty (30) miles per hour; mixed and freight trains, twenty (20) miles per hour; trains handling logs approaching and passing through tunnel west of Yacolt, ten (10) miles per hour.
3. **Special Stops, Connections, etc.—**
Nos. 981 and 982 will stop on flag at Crusher and Lucia.
4. **Register Stations—**
Yacolt. Vancouver Junction.
5. **Clearance Exceptions—**
No. 982 will not require clearance card at Vancouver Jct.
6. **Derail Switches—**
Vancouver Junction East leg of wye 200 feet from First Subdivision end of wye switch.
Brush Prairie East end siding.
Yacolt North leg wye switch. Normal position this switch for north leg of wye.
7. **Commercial Spurs—**
Miles from Yacolt Car Capacity
Bouton 4.9 5
Lucia 5.0 6
Cedar Creek Lumber Co. 13.1 4

THIRTEENTH SUBDIVISION. (ELMA BRANCH.)

1. **At Whites, ¼ mile east, gates are maintained at crossing with Lumber Company's track.** Normal position of gates "clear" for Northern Pacific Company's trains, which must approach crossing at restricted speed expecting to find gates set against them.
Look out for White Star Lumber Company's engines and cars occupying main track within yard limits.
2. **At Shelton—**Northern Pacific crews may operate over the main track of the Penninsular Railway Company between the junction with Northern Pacific main track (at Olympic Highway) and yard limit board located 786 feet West of West switch of Northern Pacific interchange yard. Northern Pacific crews occupying Peninsular Railway Company tracks within these limits must be protected as per Transportation Rule No. 99.
3. **Bridge and Engine Restrictions—**
Engines, classes heavier than F-1, not permitted on tracks at Whites and between McCleary Junction and McCleary.
4. **Speed Restrictions—**
Passenger trains, twenty-five (25) miles per hour; freight trains, twenty (20) miles per hour.
All trains twenty (20) miles per hour between Hillgrove and Stimson; fifteen (15) miles per hour between Stimson and Marmac and twenty (20) miles per hour between Marmac and Shelton, except over Mill Creek fill located between Miles Posts 22 and 23 over which speed of eight miles per hour must not be exceeded.
5. **Register Stations—**
Elma.
6. **Clearance Exceptions—**
No. 989 will not require clearance card at Shelton.
Nos. 993 and 995 will not require clearance card at McCleary.
Nos. 994 and 996 will not require clearance card at McCleary Jct.
7. **Derail Switches—**
Elma Standard Oil Spur.
McCleary East end interchange track.
Hillgrove 800 feet west.
8. **Commercial Spurs—**
Miles from Elma Car Capacity

ALL SUBDIVISIONS.

1. Conductors of work trains will issue instructions to their flagman in writing, except when flagman goes back immediately to stop an approaching train.
2. When necessary to take slack of freight trains with helper engine on the rear, it should be done by the helper engine.
3. Before moving a work or wrecking train, the whistle signal (14-b) or (14-h) must be sounded for the protection of men working about such trains.
4. Except as otherwise provided, enginemen will only be required to consult register at initial or starting points.
5. In the State of Washington rear brakeman or flagman must have at least one year's experience; passenger trains of four (4) or more cars must have two (2); and freight trains of twenty-five (25) or more cars must have three (3) brakemen.
6. **Speed Restrictions:** Passenger trains must not exceed a speed of one mile per minute, and freight trains forty (40) miles per hour.
All trains thirty (30) miles per hour through limits of interlocking plants, fifteen (15) miles per hour through crossovers, turnouts, gauntlets and passing telegraph offices where orders are received.
Light engines backing up twenty (20) miles per hour on main line, or fifteen (15) miles per hour on branches.
Trains handling steam Wrecking Derrick or Pile Drivers No. 22 and 24 and locomotive Crane 88, will not exceed twenty-five (25) miles per hour.
Troop trains handling freight equipment, twenty-five (25) miles per hour.

AUTHORIZED SURGEONS, N. P. RY. CO.

DR. R. H. BEACH, Chief Surgeon, Western District, Tacoma, Wash.

DR. R. D. WRIGHT, Asst. Surgeon, Tacoma.

DR. J. W. GULLIKSON, Asst. Surgeon, Tacoma.

N. P. B. A. Hospital Tel. Main 787

DR. A. C. STEWART, Consulting Surgeon, Tacoma.

DR. R. C. SHAEFFER, Consulting Surgeon, Tacoma.

DR. F. H. GRANDY, Asst. Surgeon, Tacoma.

SPECIAL INSTRUCTIONS.

Name	Location	Telephone Number Residence	Telephone Number Office	Stretchers At	Name	Location	Telephone Number Residence	Telephone Number Office	Stretchers At
DR. D. H. RUNNING.....	South Tacoma.	Madison 345.	Madison 280.	Tacoma, Tool Car Hospital Round House Moon Yard Office Head-of-Bay Yard Wharf.	DR. J. J. O'LEARY.....	Olympia.	979.	980.	Olympia.
DR. E. L. CARLSEN.....	Tacoma.	Madison 330.	Main 405.		DR. F. A. BIRD.....	Olympia, Wash.	1010.	33.	
DR. F. W. WICHMAN.....	Tenino	423.	421.		DR. J. O. VAN WINKLE.....	Oakville.	No Telephone.		
					DR. J. H. McARTHUR.....	Oakville.			
					DR. A. A. FOOT.....	Elma.	78-M.	78-J.	
DR. H. Y. BELL.....	Centralia.	560.	787.	Centralia.	DR. J. L. PAINE.....	Elma.			Aberdeen.
DR. F. J. HACKNEY.....	Centralia.	548.	787.		DR. J. F. MacDONALD.....	Hoquiam.	209.	680.	
DR. G. W. KENNICOTT.....	Chehalis.	281-M.	261-J.		DR. H. C. WATKINS.....	Hoquiam.	149-M.	149-J.	
DR. A. E. MacMILLAN.....	Chehalis.	52-R.	52-W.		DR. J. H. FITZ.....	Montesano, Wash.	160-R.	160.	
	Winlock.	19.	19.		DR. I. R. WATKINS.....	Aberdeen.	820.	330.	
DR. R. H. CAMPBELL.....	Vader.	404.	404.	Kalama.	DR. L. R. LIGHTFOOT.....	Cosmopolis.	1182.	1182.	
DR. H. H. QUAIFE.....	Castle Rock.	244.	154.		DR. H. D. LILLIBRIDGE.....	Yelm, Wash.			
DR. E. C. HACKETT.....	Kelso.	628.	75.		DR. W. G. CAMERON (Oculist).....	Tacoma, Wash.	Main 9202.	Main 9205.	
DR. ARTHUR SHAW.....	Longview.				DR. A. E. HILLIS (Oculist).....	Tacoma, Wash.	Proctor 3211.	Main 9205.	
DR. L. S. ROACH.....	Kalama.	622.	553.		DR. E. J. CULLAN.....	Puyallup, Wash.			
DR. C. J. HOFFMAN.....	Woodland.	17-J-2.	17-J-1.	Vancouver.	DR. JOHN ELDER.....	Selleck, Wash.			Yacolt.
DR. R. W. ARMSTRONG.....	Vancouver, Wash.	628.	628.		DR. C. E. MARTIN.....	Wilkeson, Wash.			
DR. C. E. RICHARDS.....	Sumner.	303.	303.		DR. R. S. WEYER.....	Orting, Wash.			
DR. C. S. WHITE.....	Portland.	Sellwd 1553.	Beacon 9380.		DR. F. M. GAGE.....	Shelton, Wash.			
DR. J. F. DICKSON (Oculist).....	Portland.	Bdwy. 2243.	Beacon 3111.						
DR. J. N. COGHLAN (Oculist).....	Portland.			Portland.					Puyallup.
DR. R. M. DODSON.....	Portland.	{ Atwtr 4175.	Beacon 9380.						
		{ Garfield 4416.	Beacon 1028.						
DR. F. J. CULLEN.....	Puyallup.		Main 94.						
DR. W. M. KARSHNER.....	Puyallup.								
DR. F. C. WILLSON.....	Buckley.			Buckley.					Orting.
DR. W. W. WICK.....	Carbonado.	House No. 79.	No Telephone.						
DR. R. L. SIMPSON.....	Bucoda.		161.						
DR. E. W. STEVENS.....	Dryad.	11 Dryad.	{ Dryad 64.						
			{ Doty 69.						
DR. H. B. CRAVENS.....	Pe Ell.	266.	124.	Pe Ell.					
DR. ORNE R. NEVITT.....	Raymond.	220.	3.						
DR. F. W. ANDERSON.....	South Bend.	161-W.	117-W.						
DR. G. A. TRIPP.....	South Bend.	164-W.	117-W.						

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 surgeon 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.

AUTHORIZED SURGEON G. N. RY. CO.

Dr R. C. McDANIEL, Portland, 720 Pittock Bldg.
DR. J. A. LaGASSA, Tacoma, Wash.

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

Name	Location	District
DR. DONALD H. JESSOP, Chief Surgeon.....	Portland, Corbett Bldg	O.-W. R. & N. Co. Sys.
DR. M. K. HALL, Asst. Chief Surgeon.....	Portland, Corbett Bldg	O.-W. R. & N. Co. Sys.
DR. JOHN W. MCCOLLOM, Eye, Ear, Nose and Throat.....	Portland, Morgan Bldg.	O.-W. R. & N. Co. Sys.
DR. ARCHIE C. VANCELEVE, Asst. Surgeon.....	Portland, 412 Bush & Lane Bldg.	O.-W. R. & N. Co. Sys.
DRS. MARGASON & GHORMLEY, Asst. Surgeon.....	Portland, 4645 1/2 67th St. S. E.	O.-W. R. & N. Co. Sys.
DR. COURTLAND L. BOOTH, Asst. Surgeon.....	Portland, 798 Clinton Ave.	O.-W. R. & N. Co. Sys.
DR. Roger Holcomb, Asst. Surgeon.....	Portland	O.-W. R. & N. Co., Albina to The Dalles and Vancouver.
DR. J. B. BLAIR, Dist. Surgeon.....	Vancouver	Vancouver District.
DR. MONTGOMERY RUSSELL, Division Surgeon.....	{ Seattle, 620 Leary Bldg., Main 90	Portland-Seattle.
DR. F. R. UNDERWOOD, Asst. Surgeon.....	Seattle, Cobb Bldg., Main 2205	Portland-Seattle.
DR. S. M. SAMUELS, Oculist and Aurist.....	Tacoma	Auburn-Tenino.
DR. C. P. Gammon, District Surgeon.....	Centralia	Tenino-Winlock.
DR. W. R. SCOTT, District Surgeon.....		Centralia-So. Elma.
DR. H. C. Watkins, District Surgeon.....	Hoquiam	Centralia-Tono.
DR. J. H. FITZ, District Surgeon.....	Montesano	Grays Harbor and North River Branches.
DR. W. L. BRIDGFORD, District Surgeon.....	Olympia	Olympia Branch.
DR. I. R. WATKINS, District Surgeon.....	Aberdeen	

Ambulance at Portland is located at Red Cross Ambulance Co., 391 Davis Street. Telephone, Broadway 78 A

CLEARANCES

		LIMIT OF LOAD MEASUREMENT HEIGHT ABOVE TOP OF RAIL																		Max. Height	Max. Width
		1 ft. Wide	2 ft. Wide	3 ft. Wide	4 ft. Wide	5 ft. Wide	6 ft. Wide	7 ft. Wide	7 ft. 6 in. Wide	8 ft. Wide	8 ft. 6 in. Wide	9 ft. Wide	9 ft. 6 in. Wide	10 ft. Wide	10 ft. 6 in. Wide	11 ft. Wide	11 ft. 6 in. Wide	Wide			
1st Subdivision..	Main Line (Reservation-McCarver St.)	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"		18' 6"	11' 6"	
1st Subdivision..	Main Line (McCarver St.-Tenino).....	20' 5"	20' 2"	19' 10"	19' 5"	18' 11"	18' 5"	17' 10"	17' 6"	17' 2"	16' 9"	16' 4"	15' 11"	15' 5"	14' 10"	14' 2"	13' 6"		20' 5"	11' 6"	
1st Subdivision..	Main Line (Tenino-Portland)	19' 3"	19' 3"	19' 3"	19' 0"	19' 0"	18' 7"	18' 1"	17' 9"	17' 5"	17' 1"	16' 9"	16' 4"	15' 10"	15' 5"	14' 11"	14' 3"		19' 3"	11' 6"	
2nd Subdivision.	Grays Harbor Line (St. Clair-Gate).....	17' 7"	17' 7"	17' 6"	17' 5"	17' 5"	17' 4"	17' 4"	17' 3"	17' 3"	17' 2"	17' 2"	17' 1"	17' 0"	16' 11"	16' 10"	16' 9"		17' 7"	11' 6"	
2nd Subdivision.	Grays Harbor Line (Gate-Aberdeen Jct.).....	21' 4"	21' 4"	21' 4"	21' 4"	21' 4"	21' 4"	21' 3"	21' 1"	20' 11"	20' 10"	20' 9"	20' 7"	20' 5"	20' 1"	19' 9"	19' 6"		21' 4"	11' 6"	
2nd Subdivision.	Grays Harbor Line (Aberdeen Jct.-Moclips)	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20' 6"	20' 5"	20' 4"	20' 2"	20' 1"		20' 6"	11' 6"	
2nd Subdivision.	Tumwater Spur	16' 11"	16' 9"	16' 7"	16' 6"	16' 3"	16' 1"	15' 10"	15' 9"	15' 7"	15' 5"	15' 3"	15' 1"	15' 0"	14' 10"	14' 8"	14' 4"		16' 11"	11' 6"	
2nd Subdivision.	Ocosta Branch	20' 10"	20' 10"	20' 10"	20' 10"	20' 10"	20' 4"	19' 8"	19' 4"	19' 1"	18' 9"	18' 6"	18' 2"	17' 10"	17' 7"	17' 3"	16' 11"		20' 10"	11' 6"	
3rd Subdivision.	American Lake Line	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"	21' 7"		21' 7"	11' 6"	
4th Subdivision.	Reservation—South Tacoma (Via Drawbridge Line).....	20' 8"	20' 8"	20' 8"	20' 8"	20' 7"	20' 7"	20' 7"	20' 7"	20' 7"	20' 7"	20' 7"	20' 7"	20' 5"	20' 1"	19' 10"	19' 6"		20' 8"	11' 6"	
4th Subdivision.	South Tacoma—Tenino	21' 4"	21' 4"	21' 4"	21' 4"	21' 4"	21' 4"	21' 4"	21' 1"	20' 11"	20' 8"	20' 6"	20' 4"	20' 2"	20' 0"	19' 10"	19' 8"		21' 4"	11' 6"	
5th Subdivision.	Buckley Line	21' 5"	21' 5"	21' 5"	21' 5"	21' 5"	21' 5"	21' 4"	21' 2"	21' 1"	20' 11"	20' 10"	20' 8"	20' 7"	20' 5"	20' 4"	20' 2"		21' 5"	11' 6"	
5th Subdivision.	Burnett Branch	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"	19' 0"		19' 0"	11' 6"	
5th Subdivision.	Wilkeson Branch	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"		18' 7"	11' 6"	
6th Subdivision.	Green River Branch	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"	22' 9"		22' 9"	11' 6"	
7th Subdivision.	Crocker Branch	17' 7"	17' 7"	17' 6"	17' 5"	17' 0"	16' 6"	16' 1"	15' 10"	15' 7"	15' 4"	15' 1"	14' 11"	14' 7"	14' 4"	14' 2"	14' 0"		17' 7"	11' 6"	
8th Subdivision.	Orting Branch	18' 9"	18' 9"	18' 9"	18' 6"	18' 3"	17' 11"	17' 7"	17' 5"	17' 3"	17' 1"	17' 0"	16' 10"	16' 8"	16' 6"	16' 5"	16' 3"		18' 9"	11' 6"	
9th Subdivision.	Gate Line (Gate-Centralia).....	21' 5"	21' 5"	21' 5"	21' 5"	21' 5"	21' 5"	21' 3"	21' 2"	21' 1"	20' 11"	20' 10"	20' 8"	20' 7"	20' 5"	20' 4"	20' 2"		21' 5"	11' 6"	
10th Subdivision.	Mendota Branch	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"	25' 0"		25' 0"	11' 6"	
11th Subdivision.	Willapa Harbor Line	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"	18' 8"		18' 8"	11' 6"	
12th Subdivision.	Yacolt Branch	18' 9"	18' 9"	18' 9"	18' 9"	18' 9"	18' 8"	18' 1"	17' 8"	17' 4"	17' 0"	16' 9"	16' 2"	15' 7"	15' 1"	14' 6"	14' 0"		18' 9"	11' 6"	
13th Subdivision.	Elma Branch	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"		24' 3"	11' 6"	

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

SUB-DIVISION	DISTRICT	Ruling Grade %	CLASS OF ENGINE									
			Class W		Class Y-2		Class F-1		Class S		Class P	
			Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars	Tons	Cars
First Westward	Tacoma to South Tacoma	2.20	600	20	500	20	400	15	400	15	300	15
	Tacoma to Chehalis	0.30	3500		3300		2000	80	1800	80	1500	50
	Chehalis to Napavine	1.12	1350	70	1250	70	900	60	850	60	750	60
	Napavine to Portland	0.00					3000	75	3000	75	1400	47
First Eastward	Portland to Vader	0.50	3000		2800		2500	80	2500	80	1250	60
	Vader to Napavine	0.90	1700		1500		1100		1000	32	860	29
	Napavine to Tacoma	0.30	3500		3300		2500	80	2500	80	2300	50
	St. Clair to Lacey	1.60	1000		900		800	40	800	40		
Second Westward	Lacey to Olympia	0.70	2500		2400			70		70		
	Olympia to Belmore	1.80	1000		900		600	35	600	35		
	Belmore to Gate	0.88	1500		1400		1200	40	1200	40		
	Gate to Hoquiam	0.50	3200		3000		2200	99	2200	99		
Second Eastward	Hoquiam to Moclipis	0.40	4000		4000		2500	99	2500	99		
	Moclipis to Hoquiam	0.40	4000		4000		2500	99	2500	99		
	Hoquiam to Gate	0.50	3200		3000		2000	99	2000	99		
	Gate to Olympia	0.87	2700		2500		1500	50	1500	50		
Third Westward	Olympia to Lacey	1.61	1000		900		550	30	550	30		
	Lacey to St. Clair	1.20	1350		1250		1050	40	1050	40		
	Lakeview to Nisqually	1.00	2500		2300		2000	80	2000	80		
	Nisqually to American Lake	1.60	1000	50	800	40	550	30	550	30		
Third Eastward	American Lake to Murray	1.00	2000		1800		1500		1500			
	Murray to Lakeview	0.66	2500		2300		2000		2000			
	South Tacoma to Rainier	0.70	2000		1800	70	1200	60	1150	60	1050	60
	Rainier to West Tenino	0.35	3200					60		60		60
Fourth Westward	West Tenino to Rainier	0.90	1700		1500		1100		1050	35	950	31
	Rainier to Tacoma	0.50	3200		3000		1800	80	1800	75	1500	50
	Palmer Jct. to Tacoma	0.00						80		80		
	Fairfax to South Prairie	0.00					2000	45	2000	45		
Fourth Eastward	Tacoma to Orting	0.56	3000		2800		1800	80	1800	80		
	Orting to South Prairie	1.00	1500	80	1400	60	900	60	800	60		
	South Prairie to Buckley	1.70	800	20	700	17	450	15	400	14		
	Buckley to Palmer Jct.	1.25	1650	80	1450	60	900	60	800	60		
Fifth Westward	South Prairie to Morristown	1.45					500	28	500	28		
	South Prairie to Wilkeson	2.20					400	25	400	25		
	Wilkeson to Carbonado	2.20					400	25	400	25		
	Carbonado to Fairfax	1.70					500	30	500	30		
Fifth Eastward	Kerriston to Kanaskat	1.40					600	30	600	30		
	Kanaskat to Kerriston	2.30					400	25	400	25		
	Crocker to Wingate	1.70					500		500			
	Orting to Lake Kapowsin	1.40					600		600			
Sixth Westward	Centralia to Gate	0.50	3000		2900		2200	70	2200	70		
	Grand Mound to Centralia	0.00	3500		3500		3000	70	3000	70		
	Rochester to Grand Mound	0.40	3200		3200		2400	70	2400	70		
	Gate to Rochester	0.50	3000		3000		2000	70	2000	70		
Sixth Eastward	Wabash to Mendota	0.70					1250					
	Chehalis Jct. to Adna	0.50	2900		2800		2000	60	2000	60		
	Adna to Pe Ell	0.66	2500		2500		1500	50	1400	50		
	Pe Ell to McCormick	0.80	1700		1600		800	30	800	30		
Seventh Westward	McCormick to Pluvius	1.60	1000		900		550	30	550	30		
	Pluvius to South Bend	0.53						70		70		
	South Bend to Frances	0.60	2100		2000		1800	60	1800	60		
	Frances to Pluvius	1.90	900		800		500	25	500	25		
Eighth Eastward	Pluvius to Chehalis Jct.	0.40						70		70		
	Yacolt to Van Jct.	0.58					1800	45	1800	45		
	Van Jct. to Homan	1.60					550	35	550	35		
	Homan to Yacolt	1.66					800	45	800	45		
Ninth Westward	Elma to Hillgrove	1.00	1800		1700		1200	70	800	70		
	Hillgrove to Stimson	1.30	1550		1450		1100					
	Stimson to Shelton	1.50	1100		1000		700		550			
	Shelton to Marmac	1.00	1800		1700		1200		400			
Tenth Eastward	Marmac to Stimson	2.50	600		500		400					
	Stimson to Elma, Descending	1.00										

SPEED TABLE.

Time per Mile	Miles per	Min.	Sec.	Hour
1	..	60		
1	1	59		
1	2	58		
1	3	57.1		
1	4	56.2		
1	5	55.3		
1	6	54.5		
1	7	53.7		
1	8	52.9		
1	9	52.1		
1	10	51.4		
1	12	50		
1	15	48		
1	20	45		
1	25	42.3		
1	30	40		
1	40	36		
1	45	34.3		
1	50	32.7		
2	..	30		
2	10	27.6		
2	15	26.6		
2	20	25.7		
2	30	24		
2	40	22.5		
2	45	21.8		
2	50	21.2		
3	..	20		
3	9	19		
3	20	18		
3	31	17		
3	45	16		
4	..	15		
5	..	12		
6	..	10		
7	30	8		
10	..	6		

J. S. DEAN,
Assistant Superintendent.C. W. FEE,
Trainmaster.W. W. BERRY,
Trainmaster.J. F. ALSIP,
Chief Dispatcher.

