# NORTHERN PACIFIC RAILWAY COMPANY.

**SEATTLE AND TACOMA TERMINALS** 

TIME

GG TABLE

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

**SUNDAY, JUNE 9, 1929** 

For the Government of Employes 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

FORD, F. R. BARTLES, nt General Superint Superint Superintendent of Transportation. Seattle

RTLES, W.
Superintendent
Seattle Division.

W. C. SHOWALTER,
Superintendent
Tacoma Division.

P. H. McCAULEY,

General Superintendent of Transportation.

		STWARD																								
and.		Time Table 55											FIRST C	LASS			-	·						SEC	COND CL	ASS
Water, Fuel, Scale Turntables, Wyes at Yard Limits.	mbers	June 9, 1929 Succeeding No. 54C	ш.	401	407	411	413	415	417	419	421	423	427	435	437	439	449	455	457	459	561	563	597	671	677	679
	Nur	STATIONS	e fr	Passenger Daily			Passenger Daily	Passenger Daily	Passenger	Passenger			Passenger	Passenger	Passenger Daily	Passenger Daily	Passenger Daily	Passenger Daily	Passenger Daily	Passenger	-		Passenger Ex. Sun.	Preight Daily	Freight Daily	Freight
Vater Tritab	Station		istan		Qaily Consolidated	No. 2	Nos. 1		No. 6	No. 5's	Daily Grays	Grays Harbor		No. 333's		No. 3's				Consultant	Daily	Consolidated	Kanaskat	Gt. Nor.	Nor. Pac.	Daily
H.A	æ	Telegraph Offices and Calls	Ηœ	Passenger	Passenger	No. 2 No. Coast Limited	Con. No. Coast Limited	No. 338	Atlantic Express	Connection Pacific Express	Grays Harbor Limited	Harbor Express	Connection	Connection	No. 834	Connection Comet	No. 4 Comet	G. N. No. 1	G. N. No. 3	Passenger	Passenger	Passenger	Accommo- dation	Portland	Time Freight	Nor. Pac. Portland
TW YX	A	UD SEATTLE DN King Street Station 0.8 Cross Over		L11.45P	F 8.30W	L 6.15P		L 5.00P	L 9.00 M		L 7.50M	L 4.15P			L11.50P		L 7.00™	L10.25₩	L 7.55M	L 4.30P		y .	-	L 5.05M	- " " 1	9,
WCO TX	C F 31	MIDDLE YD P 2.4 Cross Over	0.8																v						L10.00PM	L 6.50P
x	C F 27	ARGO Cross Over P O. W. R. & N. and P. C. R. R. Crossings 6.8 Track Conn. Interlocked	3.2	11.53PM	8.38	6.23		5.08	9.08		7.58	4.22			11.58PM		<b>7.08</b> 679	10.33	8-03	4.38				<b>5</b> .25	10.15	7.08 449
		C. M. St. P. & P. CROSSING Interlocked 0.8 Cross Ov. Track Conn.	10.0																							
Y	C F	BI BLACK RIVER D 1.4 Cross Over	10.8	12.03M	8.47	6.32		f 5.17	9.17		8.07	4.31			12.09M		7.17	10.43	8.13	4.47				5.40	10.35	7.25
	C F	ORILLIA 2.0	12.2																							
	C F	O'BRIEN 2.1	14.2																					12		
x	C F	KN KENT D 1.9 Cross Over	16.3	12.12	8.55	6.42		• 5.26	9.25		8.17	4.40			112.20		7.26	10.52	8.22	4.55				6.00	10.50	7.35
	C F	THOMAS	18.2																							
	C.F	CHRISTOPHER	19.6		7																					
x	C F	AU AUBURN DN 0.9 Cross Over	21.5	12.22	9.05	• 6.52		• 5.35	s 9.35		s 8.27	s 4.50			•12·30		• 7.35	11.02	8.32	5.03				6.15	A11-10PM	A 7.50P
х	A 22	GR EAST AUBURN DN	22.4			A 6.57 PM	L 9.16₩	A 5.40PM	A 9.40A	L 9.16™			L 1.16P	L 5.16₩	A12.35W	6.46M	As 7.40M									
Y X	C F	AU AUBURN DN 4.9 Cross Over	21.5	12.22	9.05		9.21			s 9.21	8.27	<b>4</b> .50	• 1.21	s 5·21		6.51		11.02	8.32	5.03				6.15	L12.25M	8.00P
	CF	DIERINGER 2.6	26 .4	12.32			f 9.27				1 8.33	1 4.57	f 1.27	f 5.27						-			See			
	CF		29.0	f12.38	9.18		• 9.33			s 9.33	<b>8.39</b>	s 5.05	• 1.33	<b>5</b> ⋅33		<b>5</b> 7.03		11.15	8.45	5.16			Tacoma Division	6.30	12.45	8.15
X WY	1967		81.9	s12.48	9.23		• 9.39			s 9.39	8.44	s 5·12	s 1.39	s 5.39		• 7.09		11.20	8.50	5.20			L 9.09M	6.40	1.00	8.25
x	1972				9.35		9.52			9.52	8.57	5.25	1.52	5.52		7.22		11.32	9.02	5.32	L12.23P	L12.19#	9.19	7.00	1.30	8.45
w	1976			A 1.15A	A 9.42W		Via Draw Bridge Line			A10.00PM	Via Draw Bridge Line	A 5.35PM	Via Draw Bridge Line	A 6.00AN		A 7.30M		Via Draw Bridge Line	Via Draw Bridge Line	Page 9	A12.30M	A12.25M	Via Bridge Line	A 7.05™	A 1.40M	A 8.55P
x	1972	RN RESERVATION DN 0.2 Cross Over	38.3				9.52				8.57		1.52					11.32	9.02	5.32			9.19			
x		O. W. R. & N. CROSSING	38.5	Bay	Bey					Bay		Вау		Вау		Bay				-	Bay	Bay				
x		O. W. R. & N. CROSSING Interlocked 1.4 Track. Conn	38.8	9	2					Jo pu		<b>P</b>		o pa		76 Pg					7	75 72				v
х		AX FIFTEENTH ST. TOWER DN 0.2 Cross Over	40.2	₽ He	H					Via Hee		a He		ia He		H					· H	H H		-		
x	1976		40.4	Υ.	4		A10.00AM			•	9.05M	V.	A 2.00PM	>	<del></del>	ă.		A11.40M	A 9.10M	A 5.40P	<b>1</b>	Via	9.25			
		-	_	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Ex. Sun.	Daily	Daily	Daily
		Time Over Sub. Div.		1.30	1.12	.42	.44	.40	.40	.44	1.15	1.20	.44	.44	.45	.44	.40	1.15	1.15	1.10	.07	.06	.16	2.00	2.25	1.55
		Average Speed Per Hour		26.7	33.4	32.0	26.6	33.6	33.6	26.6	32.3	30.1	26.6	26.6	29.8	26.6	33.6	32.3	32.3	34.6	15.4	18.0	30.7	20.1	15.7	20.9
							-																			

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

DOUBLE TRACK BETWEEN SEATTLE AND TACOMA VIA HEAD OF BAY, AUTOMATIC BLOCK BETWEEN HOLGATE STREET, SEATTLE AND RESERVATION.

SPECIAL INSTRUCTIONS, PAGES 4 AND 5.

TRAIN ORDERS GOVERNING THE MOVEMENT OF TRAINS AND INSTRUCTIONS PERTAINING THERETO, WILL BE ISSUED BY AND OVER THE SIGNATURE OF THE SUPERINTENDENT OF THE SEATTLE DIVISION.

Time Table 55.  June 9, 1929  Succeeding No. 54C.  STATIONS  Telegraph Offices and Calls  SEATTLE DN King Street Station 0.8 Cross Over  MIDDLE YARD P  2.4  O. W. R. & N. and P. C. R. Crossing brlocked 6.8 T. R. Crossing brlocked 0.8 Track Conn.  C. M. St. P. & P. CROSSING brlocked 0.8 Track Con. Cross Over  BLACK RIVER D Cross Over	Car Capacity of Sidings	Daily Consolidated Passenger	408 Passenger Daily Consolidated Passenger	No. 2's Connection North Coast Limited	Daily	A16 Passenger Daily No. 6's Connection Atlantic Express	Passenger Daily  No. 5 Pacific Express	422 Passenger Daily Puget Sound	Daily	426	428 Passenger Daily	436	438	440	450	454	456	458	562	564	<b>596</b>	SEC 672 Freight	678 Freight	680
June 9, 1929 Succeeding No. 54C.  STATIONS  Telegraph Offices and Calls  SEATTLE DN King Street Station 0.8 Cross Over MIDDLE YARD P 2.4  O. W. R. & N. and P. C. R. R. Crossings procked 6.8 Track Conn. C. M. St. P. & P. CROSSING procked 0.8 Track Con. Cross Over  BLACK RIVER D 1.4 Cross Over	Car Capacity Sidings	Passenger Daily Consolidated Passenger  A 6.4548	Passenger Daily Consolidated Passenger	Passenger  Daily  No. 2's  Connection  North  Coast  Limited	Passenger Daily No. 1 North Coast Limited	Passenger Daily  No. 6's Connection Atlantic	Passenger Daily  No. 5 Pacific	Passenger Daily	Passenger	Passenger	Passenger							458						
STATIONS  Telegraph Offices and Calls  SEATTLE DN King Street Station 0.8 Cross Over MIDDLE YARD P 2.4  ARGO Cross Over P O. W. R. & N. and P. C. R. R. Crossings brlocked 6.8 Track Conn. C. M. St. P. & P. CROSSING brlocked 0.8 Track Con. Cross Over  BLACK RIVER 1.4 Cross Over	Car Capacity Sidings	Daily Consolidated Passenger A 6.45A	Daily Consolidated Passenger	No. 2's Connection North Coast Limited	No. 1 North Coast Limited	No. 6's Connection Atlantic	No. 5 Pacific	Daily	Daily			Passenger	Pessenger		D				-	D	Passenger	Freight	Freight	
Telegraph Offices and Calls  SEATTLE DN King Street Station 0.8 Cross Over MIDDLE YARD P 2.4  ARGO Cross Over P O. W. R. & N. and P. C. R. R. Crossings brlocked 6.8 Track Conn. C. M. St. P. & P. CROSSING orlocked 0.8 Track Con. Cross Over  BLACK RIVER D 1.4 Cross Over	Car	Consolidated Passenger	Consolidated Passenger	No. 2's Connection North Coast Limited	No. 1 North Coast Limited	No. 6's Connection Atlantic	No. 5 Pacific			Daily	Daily		rassenger	Passenger				Freight						
Telegraph Offices and Calls  SEATTLE DN King Street Station 0.8 Cross Over MIDDLE YARD P 2.4  ARGO Cross Over P O. W. R. & N. and P. C. R. R. Crossings brlocked 6.8 Track Conn. C. M. St. P. & P. CROSSING orlocked 0.8 Track Con. Cross Over  BLACK RIVER D 1.4 Cross Over	Car	A 6.45M	Passenger	Connection North Coast Limited	North Coast Limited	Connection Atlantic	No. 5 Pacific Express	Puget				Daily	Daily	Daily	Daily	Daily	Da ily	Daily	Daily	Daily	Ex. Sun.	Daily	Daily	Daily
King Street Station 0.8 Cross Over  MIDDLE YARD P 2.4  ARGO Cross Over P 0. W. R. & N. and P. C. R. R. Crossings brlocked 6.8 Track Conn.  C. M. St. P. & P. CROSSING brlocked 0.8 Track Con. Cross Over  BLACK RIVER 1.4 Cross Over			A 2.45PM		A10.00AM			Express	Sound Limited	No. 338's Connection		No. 333	No. 334's Connection	No. 3 Comet	No. 4's Connection Comet	G. N. No. 2	G. N. No. 4	Consolidated Passenger	Consolidated Passenger	Consolidated Passenger	Kanaskat Local	G. N. Portland	N. P. Time Freight	Nor. Pac Portland
ARGO Cross Over P O. W. R. & N. and P. C. R. R. Crossings brlocked 6.8 Track Conn. C. M. St. P. & P. CROSSING brlocked 0.8 Track Con. Cross Over  BLACK RIVER 1.4 Cross Over	20	6.34					<b>A</b> 10.00™	A 2.30PH	A 7.35M		A 2.00PM	A 6.00M		<b>A</b> 7.30AM	,	A 5.35M	A 9.05 PM	A 9.45M				A 2.35M		
ARGO Cross Over P O. W. R. & N. and P. C. R. R. Crossings brlocked 6.8 Track Conn.  C. M. St. P. & P. CROSSING brlocked 0.8 Track Con. Cross Over  BLACK RIVER D Cross Over	20	6.34	I																				A10.30PM	A 6.00A
BLACK RIVER D 1.4 Cross Over	20	I	2.36		9.51		9.51	2.22	7.25		1.50	5.51		7.21		5.25	8.55	9.35				2.20	10.15	5.35
1.4 Cross Over																								
		6.23	2.26		9.39		9.39	2.11	7.13		f 1.38	5.39		7.09		5.14	8.44	9.25				2.05	10.00	5.20
ORILLIA	5 Spur							f																
O'BRIEN	8 Spur						•	t																
KENT D	60	• 6.13	2.16		9.30		9.30	• 2.00	1 7.03		s 1·29	• 5⋅30		7.00		5.05	8.35	9.16				1.55	9.45	5.05
THOMAS	8 Spur							1.54																
CHRISTOPHER	4 Spur			<u> </u>				,															-	
	70	6.02	2.06		• 9.20		s 9.20	• 1.48	s 6.53		s 1.20	s 5.20		6.50		4.55	8.25	9.09				L 1.45M	L 9.30PM	4.55N
EAST AUBURN DN	35			6.55PM	9.154	A 9.35M	9.15PM				1.15PM	L 5.15₩	A12.26M	6.45	7.30PM						$\dashv$			
	70	. 6.02	3.06	6.49		9.30		s· 1.48	6.53	As 5.25M			12.20		7.25	4.55	8.25	9.09				A 1.4 OAM	A 8.00 PM	4.504
4.9 Cross Over																						5	5	4.41
2.6					-																See Tacoma			4.35
2.9 Cross Over	W 70																			,				4.25
6.4 Cross Over	Ë 100																		3.420	A 5.06M	5			4.05
R. & N. 1.8 Track Conn. Cross Over																								
																	,	_						
		,	,			8.56		1.17		8					2	,		8.43	اج	2	<u>,</u> [			
0.3		8	á	, a					f B						<b>8</b>	g l			ă	ă j				
O. W. R. & N. Co. CROSSING rlocked 1.4 Track Conn.		ğ	9	7					o pres				99		pg	9	o pag		9	pg	7			
FIFTEENTH ST. TOWER DN 0.2 Cross Over		H e	Ħ						7is H	ia He			lia He		is H	75 He	7ia He		ii H	/is H				
TACOMA DN Cross Over		•			ı.	L 8.50AM		1.10P									Ī	L 8.35M						
		Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Ex. Sun.	Daily	Daily	Daily
Time Over Subdivision		1.20	1.15	.40	.45	.45	.45	1.20	1.15	.35	.45	.45	. 46	.45	.40	1.15	1.15	1.10	. 07	.06	. 16	1.40	2.05	1.55
Average Speed Per Hour		90 .		00.0	29.8	26.0	29.8																	
0. O	O'BRIEN 2.1  KENT 1.9 Cross Over THOMAS 1.4  CHRISTOPHER 1.9  AUBURN 0.9  Cross Over  EAST AUBURN DN 4.9  Cross Over  DIERINGER 2.6  SUMNER 2.9  Cross Over  PUYALLUP 6.4  Cross Over  TACOMA DN Cross Over  RESERVATION DN Cross Over  TACOMA DN O.2  Cross Over  RESERVATION O.2  Cross Over  O.W. R. & N. Co. CROSSING Ooked 1.4  Track Conn. FIFTEENTH ST. TOWER O.2  TACOMA DN Cross Over  TACOMA DN Cross Over  TACOMA DN O.2  Cross Over  TACOMA DN O.2  Cross Over  TACOMA DN O.3  DN Cross Over  TACOMA DN O.3  DN Cross Over  TACOMA DN O.3  DN Cross Over	CHRISTOPHER 1.9  CHRISTOPHER 1.9  AUBURN 0.9  Cross Over  EAST AUBURN 0.9  AUBURN 0.9  Cross Over  EAST AUBURN 0.9  AUBURN 0.9  Cross Over  DIERINGER 2.6  SUMNER 2.9  Cross Over  PUYALLUP 6.4  Cross Over  TACOMA Cross Over  RESERVATION 0.2  Cross Over  O.W. R. & N. Co. CROSSING 0.3  O.W. R. & N. Co. CROSSING 0.2  Cross Over  TACOMA Cross Over	Section   Sect	Section   Sect	Section   Sect	Section   Sect	2.0     3   5   5   5   5   5   5   5   5	2.0	Companies   Comp	Sept   Sept	Section   Sect	Section   State   St	Section   Sect	Second   S	Section   Sect	Section   Sect	## SPUT   SPUT	Charles   Char	Second   S	Second Color   Seco	1.0   1.0	1.0   1.0	1.0 O'BRIN 18 Shur	9 PRINT   1 Spec   1

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

DOUBLE TRACK BETWEEN SEATTLE AND TACOMA VIA HEAD OF BAY.

AUTOMATIC BLOCK BETWEEN HOLGATE STREET, SEATTLE AND RESERVATION.

SPECIAL INSTRUCTIONS, PAGES 4 AND 5.

TRAIN ORDERS GOVERNING THE MOVEMENT OF TRAINS AND INSTRUCTIONS PERTAINING THERETO, WILL BE ISSUED BY AND OVER THE SIGNATURE OF THE SUPERINTENDENT OF THE SEATTLE DIVISION.

# SPECIAL INSTRUCTIONS.

1. AT SEATTLE—Trains and light engines entering King Street Station from the west, must not pass the stand pipe at west end of yard without proceed signal from the switch tender given with green flag by day or green light by night. Interlocking plant at South portal of King Street tunnel—Signals are of the dwarf type (low semaphores) and are located to the right of track governed; where two arms are on one post, higher arm governs trains along main tracks and lower arm trains diverging from main track.

Trains or engines must not pass over Atlantic Street crossings, Colorado Street line, unless they receive signal from crossing flagman with green flag by day and green light by night. One motion of regular proceed signal is for the Northern Pacific, two motions of regular proceed signal is for Chicago, Milwaukee, Saint Paul and Pacific, three motions of the regular proceed signal is for the P.C. R. R. and four motions of the regular proceed signal is for the O.-W. R. & N. When no crossing flagman is on duty trains must flag themselves across.

Trains approaching Spokane St. Tower on Colorado Ave. line will call for route

INBOUND.

11.12001.121	
C. M. St. P. & P. Ry	
Nor. Pac. Ry	 
P. C. Ry — —	 
OUTBOUND.	
C. M. St. P. & P. Ry	 
P. C. Ry	
Nor. Pac. Ry	 
WEST STATE FILLS	
WEST SEATTLE LINE.	
From West to East	
From East to West	 

2. Speed Restrictions—All trains must run at restricted speed at Seattle between the switches of the crossover west of the west wye switch Spokane Street and King Street Station expecting to find main track occupied. Second class and inferio trains, switch engines and light engines may use main tracks running with current of traffic between west wye switch Spokane Street and King Street Station on time of first class trains without orders. In foggy or obscure weather all trains must stop and know before proceeding that there are no trains approaching on intersecting tracks.

All trains eight (8) miles per hour over switches King Street Station.

Passenger trains must not exceed a speed of one minute or sixty seconds per mile. Passenger trains with helper engines on rear thirty (30) miles per hour. When Mallet engine is used, fifteen (15) miles per hour.

Class Q-5 and Q-6 engines sixty (60) miles per hour. Class W, W-1, W-2, W-4 and G. N. Class J-2 engines 40 miles per hour and Class W-3, W-5 and G. N. Class O-5 engines 35 miles per hour.

Ten miles per hour over important street crossings within the corporate limits of Puvallup, Sumner, Auburn and Kent.

Trains and light engines entering or leaving Tacoma Union Station to or from the drawbridge line ten (10) miles per hour while any portion of train is passing over switches at Fifteenth Street Tower.

All trains thirty (30) miles per hour over interlocked crossings and fifteen (15)

miles per hour through crossovers, turnouts and gauntlets.

Fifteen (15) miles per hour passing telegraph offices where orders are received.

Light engines backing up twenty (20) miles per hour.

Passenger trains via Head of Bay twenty (20) miles per hour between Tacoma

Union Station and Reservation. Trains in both directions on Drawbridge Line will run at restricted speed between

Reservation and Freight Yard connection one quarter mile west. Trains entering or leaving Tacoma Union Station will move at restricted speed between 15th Street Tower and 21st Street.

3. At O. W. R. & N. Crossing 0.2 miles west of Reservation, all trains and engines via Drawbridge Line in both directions will stop at Stop Boards unless proceed signal is received from switch tender using yellow flag by day and yellow light by night.

All O.-W. R. & N. Co. trains in both directions will stop before entering connection and will proceed when signal is received from switch tender, using yellow flag by day and yellow light by night.

All westward trains via Head of Bay from Reservation will approach this connection prepared to stop unless proceed signal is given by switch tender, using yellow flag by day and yellow light by night.

- Bridge and Engine Restrictions-Speed will be restricted over Bascule Bridge 36.8 on West Seattle Line, and bridge 39, Tacoma Waterway, 15 miles per hour. Bridge 12.3 on Dempsey Tide Flat Branch (Tacoma Terminal), 8 miles per hour, Class Q or heavier engines not permitted.
- Between Reservation and Tacoma—Trains will approach crossover switches at East "D" Street and South 21st 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.
- At Argo-Following whistle signals to be used for interlocking plant routes as follows:

Colorado Street Line: One Long, One Short, One Long.

Shore Line: Two Short, One Long.
Westward to Eastward Main Line through crossover: Four short. Westward Main Line to Coal Spur: Four Short.

At Black River—Telephone is located near westward crossover switch in box on telephone pole. Communication with Seattle Dispatcher's office can be had by calling Seattle two short rings and asking for Chief Dispatcher.

At Auburn-All eastward and westward trains will approach crossover at west end of Auburn depot platform leading to and from the First Subdivision main line, expecting to find crossover occupied, and will not proceed until track is known to be clear. Passenger trains in either direction making crossover movement to or from First Subdivision, Seattle Division will not be required to flag after having used signal indicator and found track to be clear. Normal position of switch at head of the wye will be for Seattle leg of wye.

At East Auburn—Enginemen on passenger trains will keep air applied during period of switching or transferring. Enginemen on Main Line passenger trains when stopping for transfer will pull head working car to extreme end of

When ready to depart from transfer platform, Conductors on through passenger trains will obtain signal from Flagman before passing "Proceed" signal to

- At Puyallup—All Tacoma Division trains running between depot and water tank will use eastward and westward main tracks and crossovers, near water tank. Eastward siding is that portion of third main track from Meridian St. at west end, to its connection with fifth sub-division of Tacoma Division at east end.
- At Reservation-No towermen are used to manipulate interlocking plant, O.-W. R. & N. crossing near Reservation. When train or yard crews have occasion to use crossing the conductor or foreman will operate the levers, bearing in mind that after used, signals and derails must be set clear for Northern Pacific route. When signals are against Northern Pacific route, conductor investigate cause and if necessary flag through interlooking district.
- At Fifteenth Street Tower—A signal arm semaphore pattern, located near junction of line leading to Tacoma 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 tower man is located on post under Union Station concourse; switch crews will operate for Portland bound trains and conductors will operate for Seattle bound trains.

Card train order form AB.—Will govern the movement of trains between Reservation and the Fifteenth Street Tower via Drawbridge Line; between Argo and Spokane Street Tower on Colorado Avenue line; between East Auburn and Auburn and between East Auburn and Auburn Yard.

Trains must not move in this territory unless conductor and engineman each holds a copy properly filled out.

Special stops, connections, etc.—No. 401 stop at Kent and Auburn for revenue passengers for Tacoma and points south.

No. 423 stop on flag at Orillia and Thomas for receipt and delivery of Parcel Post mail.

No. 412 connects with No. 424 at Tacoma.

Nos. 417 and 449 stop on flag at Kent for passengers holding tickets for Spokane and east.

Nos. 418 and 440 stop at Kent to let off passengers from points east of

No. 436 stop on flag at Thomas for express shipments.

No. 407 will stop at Kent, Sumner, and Puyallup to pick up passengers for points south of Tacoma, and at Sumner and Puyallup to let off passengers from Seattle. No. 408 will stop at Sumner and Kent to discharge business from points south of

Train 456 will stop on flag at Puyallup, Sumner, Auburn and Kent to pick up passengers for Spokane and points east.

Train 457 will stop on flag at Kent, Auburn, Sumner and Puyallup to discharge passengers from Spokane and points east.

- Register Stations-Seattle (King Street Station), Middle Yard, East Auburn. Auburn Yard Office, for trains originating or terminating. Puyallup for Tacoma Division Fifth (5th) Subdivision trains. Tacoma Union Station for passenger trains; Yard Office for freight trains.
- Register Exceptions-At East Auburn and Puyallup, second class and inferior trains register by ticket form 608. At King Street Station, Seattle, Train No. 673 register by ticket form 608.
- 17. Bulletin Stations-Seattle (King Street Station) Middle Yard and Roundhouse. Auburn, roundhouse and yard office. Tacoma, Union Station and roundhouse
- Standard Time Clocks—Seattle (King Street Station), Roundhouse, Middle Yard Office, Auburn Yard Office; and Tacoma (Union Station).
- Derail Switches—Are located as follows, and must be kept in derailing position when not in use. Sumner. West end of depot siding. East Auburn, East end extension.

#### ALL SUBDIVISIONS

Following will govern the operation by or through spring switches:

Maximum speed for all facing point and trailing point movements through switch, 15 miles per hour.

Trailing movements on the track for which the switch is normally lined may be made at normal speed.

Trains trailing through or stopping on spring switch must not back up or take slack until points have been thrown by hand.

Flying switches over or through spring switches are prohibited.

When operated by hand, lever must be moved slowly, keeping a steady pressure on the handle until the switch is thrown and the handle is in the notch on the switch stand provided for it. When signal governing block in which spring switch is located is at stop, facing

point movements must not be made until points have been examined. Conductors of work trains will issue instructions to their flagmen in writing,

except when flagman goes back immediately to stop an approaching train. When necessary to take slack of freight trains with helper engine on the rear

it should be done by the helper engine. 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.

Except as otherwise provided, enginemen will only be required to consult register

at initial or starting points. In the State of Washington, conductors of passenger trains consisting of four or more cars, and freight trains consisting of 25 or more cars, must know that brakeman has had at least one year's experience in train-service before assigning

him to flagging duties. Great Northern engines, mountain type, Class P-2, may be permitted to operate
over the same territory as Northern Pacific Class W-3; and G. N. engines, Pacific
type, Class H-4, may be permitted to operate over the same territory as Northern

Pacific Class T engines. Class P-2 G. N. engines when used on trains entering Tacoma Union Station are restricted to the use of Track No. 1, and should not exceed speed of eight (8) miles per hour entering and leaving Tacoma Station.

Northern Pacific Class Q-6 engines entering or leaving Tacoma Union Station must not use tracks two and three on account of restricted clearance.

- Logs-Trains handling logs on double track will not be permitted to meet passenger trains between stations. Conductors will notify Dispatcher when there are logs in their trains and secure train order that passenger trains will be held at next station until they have arrived. Conductors of trains coming from Buckley Line must arrange with operator at Puyallup to hold opposing passenger trains. Conductors of trains picking up logs must know personally cars are not overloaded, or improperly loaded, and are safe to move without loss of lading. Logs must not be moved after dark.
- Consolidated passenger trains 401, 402, 407, 408, operated by Nor. Pac. Crews. Consolidated passenger trains 458, 459, operated by Great Nor. Crews. Consolidated passenger trains 561, 562, 563, 564, operated by O.-W. R. & N. Crews.

SPEED TABLE

		Miles
Time 1	Per Mile	Per
Mins.	Secs.	Hour
		60
1	•	60
÷	ĭ	59
i	2	58 57.1
1	8	57.1
1	1 2 3 4 5 6 7 8 9 10 12	56.2 55.8 54.5 53.7 52.9 52.1
1	5	55.8
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
ī	20	45
ī	25	42 8
î	15 20 25 80 40 45 50	51.4 50 48 45 42.3 40 36 34.3 32.7 30 27.6
î	40	36
î	45	24 8
÷	50	20 7
		20
2	iö	07.4
2	10	21.0
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 19
3	9	19
3	21	18
3	31	17 16
3	45	16
1111111111111112222222333345	••	15
5		12

6 7 10

30

#### MAXIMUM CLEARANCES

									LIMIT OF LOAD—MEASUREMENT																				
													H	IGHT	ABO	VE '	rop oi	RA	L					,					
	* .	1 f Wi		2 ft Wid		3 ft. Wide	4 W	ft.	5 ft. Wide		6 ft. Wide	7 ft Wid	7	ft. 6 in. Wide	8 W	ft. ide	8ft.6in Wide	ı.   Ş	ft. Vide	9ft. 6 i Wide	a.   1	0 ft. Vide	10 ft. 2 ir Wide	. 10 ft. 6 Wide	in.	11 ft. Wide	11 ft. 6 in Wide	Max. Height	Max. Width
)	Main Line (Seattle-Reservation)	20'	3"	20'	3"	20′ 3″	20'	3"	20′ 3	20	0′ 3″	20′	3" 2	0′ 3″	20'	3"	20′ 3	" 20	3"	20′ 3	" 20	3"	20′ 3′	20'	3" 2	0′ 3″	20′ 3′	20′ 3′	11' 6"
	West Seattle Line	21'	3"	21'	3"	21′ 3″	21'	3"	21′ 3	" 2	1′ 3″	21'	3" 2	1′ 3″	21'	3"	21' 1	20	9"	20′ 7	" 20	3"	20′ 2′	20'	)" ]	.9′ 9″	19' 7'	21' 3"	11' 6"
	Lake Union Line	20'	7"	20'	7"	20′ 7″	18'	3"	18' 3	" 17	7′ 4″	16'	4" 1	5' 10"	15'	4"	14' 10	14	5"	14' 0	"   13	5"	13' 3'	12' 1	[" ] ]	2' 5"	11' 11'	20' 7'	11' 6"

### WATCH INSPECTORS

ARNT SETTER, 521 2nd Ave., Seattle F. H. WALDRON, Auburn. RICHARD VAETH, 924 Pacific Ave., Tacoma Dr. R. H. BEACH, Chief Surgeon, Western Division, Tacoma. Telephones, Office, Main 787, Residence, Main 4349.

Surgeon. Telephones, Office, Main 787, Residence, Main, 7874.

Dr. FREDERICK ADAMS, Oculist, Seattle. Tele. Office, East 0022, Residence, Ken. 0176.

King Street Station (S)
Dr. HENRY ODLAND, Seattle.

Western Division, Tacoma.
Telephones, Office, Main 787,
Residence, Main 4349.

Dr. R. D. WRIGHT, Assistant Surgeon.
Tele. Main 787, Res. Main 8482-Y.
Dr. J. W. GULLIKSON, Assistant
Surgeon. Telephones, Office, Main
Surgeon. Telephones, Office, Main
Surgeon. Telephones, Office, Main
Surgeon. Telephones, Office, Main
Seattle. Tele. Office, East 0022,
Residence, Beacon, 1164.
Dr. P. W. WILLIS, Seattle. Telephones
Office, Main 1103, Res. East 1172.
Dr. E. C. GROSS, Seattle. Telephones,
Office, Main 2418, Res. East 3725.
Dr. I. J. D. SHULER, Seattle. Tele.
Office, Sunset 0440, Res. Ken. 2638.

Dr. G. M. McGREGOR, Kent. Tele. Office, 6-J, Residence, 6-M.

**AUTHORIZED SURGEONS.** Location of Stretchers (S).

Dr. ROBERT WIGHTMAN, Oculist,
Seattle. Tele. Office, East 0022,
Residence, Beacon, 1164.

Dr. P. W. WILLIS, Seattle. Telephones
Office, Main 1103, Res. East 1172.
Dr. E. C. GROSS, Seattle. Telephones,
Office, Main 2418, Res. East 3725.
Dr. I. J. D. SHULER, Seattle. Tele.
Office, Sunset 0440, Res. Ken. 2638.
Seattle Yard Office (S)

Seattle Yard Office (S)

Dr. W. M. KARSHNER, Puyallup (S)
Tele. Office, None. Res. Main 94.
Dr. F. J. CULLEN, Puyallup. Tele.
Office, None. Residence, Red. 419.

W. R. MITCHELL. Summer.

Dr. W. B. MITCHELL, Sumner.
Tele. Office, 72, Residence, 110-J.
Dr. C. E. JUDD, Sumner. Telephones,
Office, 54-J. Residence, 54-M.

Dr. Wm. H. LUDWIG, Consulting

Surgeon, Tacoma.
Tele. Office, Madison, 260.
Residence, Madison 271.

Dr. E. L. CARLSON, South Tacoma
Tele. Office, None. Res. None.
Dr. D. H. RUNNING, South Tacoma

Dr. W. G. CAMERON, Specialist. Tacoma. Tele. Office, Main 9205,

Residence, Main 9203,
Dr. A. E. HILLIS, Oculist, Tacoma.
Telephones, Office, Main 9205.
Residence, Proctor 3211.
N. P. B. A. Hospital, Tacoma, (S)

Baggage Room, Tacoma (S) Round House, Tacoma (S) Head-of-Bay Yard Office, Tacoma (S) Half Moon Yard Office, Tacoma (S) Tool Car, Tacoma (S) Wharf, Tacoma (S)

Surgeons will attend, when called upon officially, to all cases of ACCIDENT occurring to employes or passengers. In cases of SICKNESS it is the intention to limit medical service to the locality or town where a surgeon resides, unless some urgent necessity exists for which distinct official authority must be had in accordance with established regulations.

Railway Officials are required to call on the nearest authorized surgeons whenever practicable, when surgical or medical services are needed. When such are accessible, the Association will not be responsible for bills for medical services rendered by any other physician. In the event of a sudden emergency, arising from accident, if necessary, proper surgical aid should be procured until the arrival

of a regularly appointed surgeon, when the case should be placed in his charge and in no case should the services of any but an authorized company surgeon be continued at the expense of the Railway Company or of the Association after such surgeon is able to assume

enarge 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

#### AUTHORIZED SURGEONS, G. N. RY.

DR. H. J. KNOTT, Seattle.

DR. J. A. LA GASA, Tacoma.

# SEATTLE DIVISION.

J. J. McCULLOUGH,

J. J. SEXTON,

J. E. CAMPBELL,

J. H. ROBINSON,

FRANK KERGAN.

Assistant Superintendent.

Trainmaster.

Trainmaster.

Trainmaster.

Chief Dispatcher.

## TACOMA DIVISION.

J. S. DEAN,

W. W. BERRY,

C. W. FEE,

J. F. ALSIP,

Assistant Superintendent.

Trainmaster.

Trainmaster.

Chief Dispatcher.

