

# **NORTHERN PACIFIC RAILWAY COMPANY.**

**SEATTLE DIVISION**

## **TIME 51 TABLE**

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

**SUNDAY, JUNE 15, 1924.**

**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,**  
Acting General Manager.

**J. E. CRAVER,**  
General Superintendent.

**I. B. RICHARDS,**  
Assistant General Superintendent of Transportation.  
**P. H. McCAULEY,**  
General Superintendent of Transportation.

**F. R. BARTLES,**  
Superintendent.

FIRST SUBDIVISION. (MAIN LINE.)

WESTWARD

Table with columns for Third Class, Second Class, First Class, and Second Class. Includes station names like ELLENSBURG, SHOSKIN, THORP, DUDLEY, KOUNTZE, BRISTOL, TEANAWAY, CLE ELUM, BAKER, NELSON, TALMAGE, EASTON, UPHAM, MARTIN, STAMPEDE, BORUP, KENNEDY, LESTER, HOT SPRINGS, MAYWOOD, HUMPHREY, EAGLE GORGE, LEMOLO, PALMER JCT., KANASKAT, BYRD, RAVENSDALE, COVINGTON, WYNACO, EAST AUBURN. Includes times and train numbers.

DOUBLE TRACK BETWEEN EASTON AND MARTIN. DOUBLE TRACK BETWEEN STAMPEDE AND LESTER. EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION. AUTOMATIC BLOCK BETWEEN ELLENSBURG AND MARTIN AND BETWEEN STAMPEDE AND EAST AUBURN. SEE SPECIAL INSTRUCTIONS, PAGES 5, 6, 7, 8 and 9. STAFF SYSTEM BETWEEN MARTIN AND STAMPEDE.

WESTWARD

SECOND SUBDIVISION. (MAIN LINE.)

EASTWARD

Table with columns for Third Class, Second Class, First Class, and Time Table No. 51. Includes station names like SEATTLE, NORTH PORTAL, INTERBAY, FREMONT, UNIVERSITY, LAKE, BOTHELL, WOODINVILLE, MALTBY, BROMART, and HO G. N. STN.-Snohomish. Lists times and distances for various train services.

BETWEEN SNOHOMISH AND LOWELL TRAINS WILL BE GOVERNED BY GREAT NORTHERN RY. TIME TABLE RULES AND REGULATIONS.

Table detailing train schedules between Snohomish and Lowell, including stations like LOWELL, EVERETT, G. N. JUNCTION, C. M. & St. P. R. R. CROSSING, ROGER, and DELTA WYE. Lists times and distances.

BETWEEN DELTA WYE AND KRUSE TRAINS WILL BE GOVERNED BY GREAT NORTHERN RY. TIME TABLE RULES AND REGULATIONS.

Large table detailing train schedules between Delta Wye and Kruse, including stations like KRUSE, M. & A. CROSSING, EDGEComb, ARLINGTON, ARLINGTON JUNCTION, BRYANT, McMURRAY, MONTBORNE, BIG LAKE, CLEAR LAKE, THORNWOOD, WICKERSHAM, ACME, STANDARD, DEMING, NOOKSACK, and SUMAS. Lists times, distances, and train numbers.

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION, EXCEPT No. 675 IS SUPERIOR TO No. 676 WICKERSHAM TO SUMAS. SEE SPECIAL INSTRUCTIONS, PAGES 6, 7, 8 AND 9.

WESTWARD THIRD SUBDIVISION. (ROSLYN BRANCH.) EASTWARD

Table for Third Subdivision (Roslyn Branch) showing train schedules for Second Class (477, 475, 473) and Second Class (474, 476, 478) with stations like Cle Elum, Mine Five, Roslyn, Ronald, Beekman, and Lakedale.

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION EXCEPT: No. 475 is superior to 476 Cle Elum to Beekman. No. 473 is superior to 474 Cle Elum to Beekman. No. 477 is superior to 478 Cle Elum to Beekman.

WESTWARD FIFTH SUBDIVISION. (SNOQUALMIE BRANCH.) EASTWARD

Table for Fifth Subdivision (Snoqualmie Branch) showing train schedules for 3d Class (923) and First Class (924) with stations like Woodinville, Willows, Redmond, Paradise Log. Ry. Crsg., Campton, Inglewood, Monohon, Issaquah, High Point, Preston, Fall City, Snoqualmie Falls, and North Bend.

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

WESTWARD FOURTH SUBDIVISION. (BELT LINE.) EASTWARD

Table for Fourth Subdivision (Belt Line) showing train schedules for Third Class (935), Second Class (675), and First Class with stations like Black River, Renton, S.R. & S. Crossing, P.C.R.R. Crossing, Quendall, Wilberton, Northrup, Kirkland, and Woodinville.

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

WESTWARD SIXTH SUBDIVISION. (LOWELL LINE.) EASTWARD

Table for Sixth Subdivision (Lowell Line) showing train schedules for Time Table No. 51 with stations like Snohomish, Varden, C.M. & St.P. Ry. Crossing, and Lowell.

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

WESTWARD

SEVENTH SUBDIVISION.  
(HARTFORD LINE.)

EASTWARD

THIRD CLASS		FIRST CLASS		Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits	Station Numbers	Distance from Bromart	Time Table No. 51 June 15, 1924 Succeeding No. 50			Distance from Edgcomb	Car Capacity of Sidings	FIRST CLASS		THIRD CLASS	
927	Way Freight	443	Passenger				STATIONS	928	Way Freight						
Mo., We., Fri.		Daily		Telegraph Offices and Calls	Tu., Thu., Sat.										
		L 11.03 AM	C		0.0	BROMART 1.2	20.0	Spur 5							
	L 8.30 AM		WY X	CF 69	1.2	OM SNOHOMISH 5.1	DN 18.8	150				A 2.15 PM			
	s 8.50		W	CF 74	6.3	MA MACHIAS 3.1	D 13.7	56				s 1.40			
	s 9.05		X	CF 77	9.4	HD HARTFORD 4.5	D 10.6	102				s 1.10			
	s 10.00			CF 82	13.9	GETCHELL 6.1		60				s 12.30 PM			
	A 10.20 AM		WX	CF 88	20.0	EDGECOMB		53				L 11.56 AM			
	Mo., We., Fri.		Daily									Tu., Thu., Sat.			
	1.50		.53									2.19			
	10.2		23.7									8.9			
Time Over Subdivision															
Average Speed Per Hour															

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

WESTWARD

EIGHTH SUBDIVISION.  
(DARRINGTON BRANCH.)

EASTWARD

SECOND CLASS		SECOND CLASS		Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits	Station Numbers	Distance from Arlington	Time Table No. 51 June 15, 1924 Succeeding No. 50			Distance from Darrington	Car Capacity of Sidings	SECOND CLASS		
469	Mixed	470	Mixed				STATIONS	470	Mixed					
Ex. Sun.		Ex. Sun.		Telegraph Offices and Calls	Ex. Sun.									
	L 12.15 PM		CX Y 3/4 ME	CF 91	0.0	A ARLINGTON 1.2	DN 28.9	132				A 9.00 AM		
	12.20				1.2	ARLINGTON JUNCTION 4.5	P 27.7					8.52		
	s 12.35		W 2ME	B K 4	5.7	COOPER 2.9	23.2	Spur 6				s 8.31		
	s 12.55			B K 7	8.6	CICERO 3.7	20.3	Spur 2				s 8.20		
	s 1.10			B K 11	12.3	OSO 2.0	P 16.6	48				s 8.07		
	s 1.25			B K 13	14.3	HALTERMAN 1.7	14.6	15				s 7.58		
	s 1.35			B K 15	16.0	ROWAN 2.1	12.9					s 7.51		
	s 1.50		W	B K 17	18.1	HAZEL 1.1	10.8	32				s 7.43		
	s 1.55			B K 19	19.2	TULKER 2.6	9.7	30				s 7.38		
	s 2.10			B K 21	21.8	FORTSON 1.1	P 7.1	Spur 12				s 7.28		
	s 2.25			B K 22	22.9	SHEOMET 6.0	6.0	Spur 3				s 7.22		
	A 2.50 PM		CW YX	B K 28	23.9	DARRINGTON	P 0.0	24				L 7.00 AM		
	Ex. Sun.											Ex. Sun.		
	2.35											2.00		
	11.3											14.5		
Time Over Subdivision														
Average Speed Per Hour														

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

WESTWARD

NINTH SUBDIVISION.  
(BELLINGHAM BRANCH.)

EASTWARD

THIRD CLASS		FIRST CLASS		Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits	Station Numbers	Distance from Wickham	Time Table No. 51 June 15, 1924 Succeeding No. 50			Distance from Bellingham	Car Capacity of Sidings	FIRST CLASS		THIRD CLASS	
931	Way Freight	443	Passenger				STATIONS	444	Way Freight						
Ex. Sun.		Daily		Telegraph Offices and Calls	Ex. Sun.										
	L 8.45 PM		YW	CF 128	0.0	WK WICKERSHAM 1.3	D 20.5	75				A See page 2 s 1.25 PM			
	s 9.00			B M 1	1.3	MIRROR LAKE 2.5	19.2	33				f 1.18		s 5.30	
	s 9.15			B M 4	3.8	PARK 1.0	16.7	15				f 1.11		s 5.20	
	s 9.20			W 2 1/2 MW	4.8	BLUE CANYON 4.2	15.7	20				f 1.07		s 5.09	
	f			B M 9	9.0	TOWANDA 2.4	11.5					f		f	
	s 9.55			B M 11	11.4	AGATE BAY 3.7	9.1	35				f 12.47		s 4.48	
	s 10.15			B M 15	15.1	SILVER BEACH 1.0	5.4					f 12.40		s 4.30	
	s 10.20			B M 16	16.1	LARSON 4.4	4.4	30				12.38		s 4.25	
	A 10.55 PM		WYCO X	B M 20	20.5	WD BELLINGHAM	D 0.0	50				L 12.25 PM		L 4.00 PM	
	Ex. Sun.		Daily									Daily		Ex. Sun.	
	2.10											1.00		1.40	
	9.3											20.5		12.3	
Time Over Subdivision															
Average Speed Per Hour															

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

## SPECIAL INSTRUCTIONS.

## FIRST SUBDIVISION.

## (MAIN LINE.)

1. **Automatic signals between Lester and Easton**—Attention is particularly directed to the signal with two arms, used where traffic is moved in the same direction on parallel tracks shown at page 134, figure 12, transportation rules. The signals governing eastward track between Lester and Stampede control eastward trains only. The signals governing the westward track between Stampede and Lester control trains in either direction. Eastward trains using westward track will be governed by home-signal located 1400 feet east of Lester. When train crosses over from westward to eastward track at Kennedy the lower arm of signal located at cross-over governs movement. When both cross-over switches are open this signal will show clear or caution indication if block is not occupied. The signals governing eastward track between Martin and Easton are operative for trains in either direction. Westward trains using eastward track will be governed by home-signal located 600 feet west of Easton. When train crosses over at cross-over east of tunnel No. 2 the lower arm on signal at east end of cross-over will govern the movement and when both cross-over switches are open the signal will show clear or caution indication if block is not occupied. The signals governing westward track between Easton and cross-over at Tunnel No. 2 cut control westward trains only. The signals governing westward track between tunnel No. 2 cut and Martin control trains in either direction. Eastward trains using westward track will be governed by home signal at east switch at Martin and if instructed to cross over to eastward track at cross-over east of Tunnel No. 2 will be governed by lower arm on signal at west end of cross-over, when both cross-over switches are open this signal will show clear or caution indication if block is not occupied. Eastward trains using the westward track through to Easton must have train order authority to pass home-signal east of Tunnel No. 2.
2. **At Palmer Junction** the upper semaphore arms are train order signals and govern movement of trains via first Subdivision; middle arm is also train order signal, and governs movement to Fifth Subdivision of Tacoma Division; lower arm is automatic block (home-signal).
3. **Helper District**—Between Easton and Lester.
4. **Pusher District**—Between Auburn and Lester.
5. **Card train order Form AB** will govern the movement of trains between East Auburn and Auburn and between East Auburn and Auburn Yard, and trains must not move in this territory unless conductor and engineman each hold a copy properly filled out.
6. **Between Headworks and Humphrey** all toilets in trains must be kept locked and employees are cautioned against throwing off any refuse or articles which might become unsanitary.
7. **At Humphrey**—No. 1 track will be used for westward trains and No. 2 track for eastward trains.
8. **At Nelson**—north siding will be used for eastward trains and south siding for westward trains.
9. **At Dudley**—No. 1 track will be used for westward trains and No. 2 track for eastward trains.
10. **At Cle Elum**—Electric coal bunker, located on west extension, will not clear man on side of car or engine, and logs will not be handled on this track.
11. **Speed Restrictions**—Eastward passenger trains twenty (20) miles per hour between extreme west switch Ellensburg yard and Ellensburg station. Cle Elum ten (10) miles per hour through incorporated city limits. At locations and territory covered by slow boards instructing a reduction of speed to thirty-five (35) miles per hour, Class Q-6 engines will reduce speed and not exceed twenty-five (25) miles per hour over this territory.
12. **Bridge Restrictions**—Over bridge 60, Green River, ten (10) miles per hour, single and double header engines Classes Q-5, Q-6, W-3, W-5, Z-2, Z-3 and Z-4.
13. **Staff system between Stampede and Martin**—No train, engine, or propelled car will run in either direction until engineman receives from operator a staff which must be retained and delivered to the operator at the opposite end of the block. The possession of a staff makes the train superior to all other trains between Stampede and Martin. The eastward train order signal at Stampede, and westward train order signal at Martin, are interlocked with staff machines located in the telegraph office at Stampede and Martin, and except when used must be set normally at stop and cannot be cleared until the operator at opposite end of block returns staff to machine, which must not be done until rear of train has passed 300 feet beyond the

signal. After signal has been cleared for a train entering the tunnel it must be restored to stop immediately after the rear of the train has passed the signal.

In order to use the switches in Old Stampede yard, the staff must be used to unlock switch levers with, and levers will have to be returned to normal position before staff can be moved. These tracks cannot be used for trains or engines getting into clear as the staff which is used for unlocking the switches must be returned to machine at Stampede or Martin. (Pusher staff will not unlock switches.)

When a helper engine is used behind caboose or on rear of passenger train, operators at Stampede will be prepared to deliver pusher staff to engineman.

When engine is cut off at Old Stampede, the pusher staff will be his authority to return to Stampede. (The pusher staff cannot be put into the machine at Martin, but must be returned to the machine at Stampede.)

In tunnel section between double track switch at Martin and double track switch at Stampede, flagging is not required. Headlight will be used both day and night

14. **Mountain Grade Operation.**

Mountain grade between Easton and Lester.

Westward freight trains must not leave Stampede until preceding passenger trains have arrived at Lester and eastward freight trains must not leave Martin until preceding passenger trains have arrived at Easton.

At Martin when block is not clear for eastward trains operator will head them in on eastward siding.

At Easton eastward freight trains will stop clear of cross-over at the water tank.

Sidings between Tunnel No. 3 and westward switches of sidings west of Tunnel No. 4 will be considered in Stampede station limits. The sidings between Tunnels Nos. 3 and 4 must not be used for the meeting or passing of train.

Normal position of double track switches at Easton and Stampede will be for westward trains and at Martin and Lester for eastward trains.

Eastward freight trains will stop at Lester for Terminal Air Test and at Easton for inspection and to cool wheels.

Westward freight trains will stop at Easton for Terminal Air Test, at Kennedy (with engine just east of telegraph office) and at Lester for inspection and cool wheels.

In order to facilitate the terminal test of air brakes on freight trains at Lester and Easton, as required by Transportation Rule No. 703, engineman who is handling the air brakes will before the engine is detached to take coal, water, or do station work, make a straight twenty pound reduction from maximum brake pipe pressure with the automatic brake valve. As soon as the brake valve has stopped exhausting engineman will give one blast of the whistle. Trainmen will not close angle cock to detach engine until this signal is given. Immediately after the brakes have been applied a car to car inspection of the brakes will be made. Defect card, Form 684, properly filled out, must be attached to any car on which the air brake has failed to apply. This inspection must be completed within fifteen (15) minutes after the brake application. The air must not be coupled into the train from the helper or road engine until the enginemen have been informed that the inspection has been completed. If, for any reason, the road engine is not detached, the brakes must be applied and the test made as outlined above.

When a passenger train is furnished two helper engines over Cascade Mountain and one engine is a class "S-4" and the other a class "W" the class "W" engine must be placed on the head and the class "S-4" engine on the rear of train.

Through Tunnel No. 3—On whistling for either Martin or Stampede, the enginemen will cut out low pressure governor head, then increase train line pressure to 90 pounds by turning up feed valve. When stop is made at Easton eastbound and Lester westbound restore train line pressure to 70 pounds by cutting in low pressure governor and readjusting feed valve.

Following this he must obtain "Proceed" signal before entering Tunnel No. 3 to be passed from conductor to head engineman by helper engine whistle and head brakeman. Conductor will not give this signal until the train pipe pressure in the caboose has been increased to at least 80 pounds.

On westward trains of all empties one-third of the retaining valves will be turned up commencing at the head end and alternating every third car before entering Tunnel No. 3 and stop will be made at New Stampede to turn up balance of retainers. With other freight trains, before entering Tunnel No. 3 turn up all retaining valves Westward, and all but the rear one-third Eastward, turning all up before leaving Martin.

If for any reason the train breaks in two or more parts while in Tunnel No. 3, train and engineman should arrange to get engines out of tunnel promptly as possible. If necessary, take engines and cars out in either or both directions. When portion of train is left in tunnel, same should be made secure by blocking and not moved out until smoke and gas have cleared and it can be done safely. Blocking will be found on walls of tunnel on right hand side going east, about 100 feet apart and six feet above the rail.

Descending trains will carry 90 pounds train pipe pressure to Lester and to Easton. Following any stops during the descent the engineman must fully recharge the brakes before starting and the conductor must not give the "Proceed" signal until at least 80 pounds is shown by the caboose gauge.

If enginemen handling eastward freight trains find that fan at mouth of Tunnel No. 3, Stampede, is in operation when passing vents, train must be stopped at once and engineer in charge of plant notified to stop the fans.

Conductor in charge of freight trains will wire operators at Martin or Stampede, as the case may be, when they have stockmen or messengers or any one legitimately carried on train in excess of regular train crew so that operators can hand up sufficient number of respirators.

Speed of trains through Stampede Tunnel No. 3 must not exceed 15 miles per hour and must be so controlled that they can be stopped on emerging. Passenger trains must not exceed 20 miles per hour and freight trains 15 miles per hour Hubner to Martin westward and Lester to Stampede eastward or between these points against the current of traffic in the opposite directions. Passenger trains must not exceed 30 miles per hour and freight trains 20 miles per hour Martin to Hubner eastward or Stampede to Lester westward.

15. **Lester to East Auburn**—Trains consisting of 60 cars or more, regardless whether part empties and part loads, or all empties, or all loads, will use retaining valves on head portion of train as follows:

Trains of 60 cars will use 12 retainers.

Trains of 80 cars will use 18 retainers.

Same to be turned up on cars from the head end alternating by using the retainer on every other car, or the first, third, fifth, etc. On trains containing less than sixty cars, retainers will be furnished by request of the engineman but not to exceed ten on such trains. These retaining valves must be turned down when coming into East Auburn and before engine passes over the hump at bridge between East Auburn and east leg of the wye switch.

16. **Special Stops, Connections, etc.**

No. 4 will stop on flag at Kanaskat for passengers destined to points east of Billings.

Nos. 337 and 338 will stop on flag at Casway, Hubner, Old Stampede, Nagrom, Forcamp, Baldi, Headworks, Newker, Cranmar and Berrydale.

No. 42 will stop at Nagrom and will stop on flag at Hubner.

No. 41 will stop at Nagrom and will stop at Cle Elum to discharge passengers from points east of Billings.

No. 338 will connect with No. 596 at Kanaskat.

No. 334 will stop on flag at Baldi and will stop on flag at Nagrom and Stampede on Mondays.

17. **Register Stations—**

Ellensburg.

Easton—For westward trains and trains originating and terminating.

Lester—For eastward trains and trains originating and terminating.

East Auburn.

18. **Register Exceptions—**

At Lester, eastward through trains and at Easton, westward through trains will register by ticket, Form 608.

At Easton, eastward through trains and at Lester, westward through trains will be furnished check of register, Form 602.

At East Auburn, second class and inferior trains register by ticket, Form 608.

19. **Clearance Exceptions—**

At East Auburn, second class and inferior trains will not require clearance if train order signal is in clear position.

20. **Bulletin Stations—**

Ellensburg, Cle Elum, Easton, Lester and Auburn yard office.

21. **Standard Time Clocks—**

Ellensburg, Cle Elum, Easton, Lester and Auburn yard office.

22. **Watch Inspectors—**

Ellensburg, J. W. Cummins; Cle Elum, J. A. Karterman; Auburn, E. De Barthe; Seattle, Houghton & Son, 215 Yesler Way.

23. **Derail Switches—**are located as follows, and must be kept set in derailing position when not in use:

Ellensburg.....	East End of East Yard.
Ellensburg.....	Caboose Track.
Cle Elum.....	East End of East Extension.
Easton.....	East End of Siding.
Easton.....	East End of No. 2 Track.
Easton.....	East End of Interchange Track.
Stampede.....	East and West Ends of No. 2 Track.
Swauk.....	
Casway.....	
Ravensdale.....	East and West End Coal Tracks.
Lester.....	West End of Roundhouse Track.
Lester.....	West End of No. 1 Track.
Hubner.....	
Nagrom.....	
Eagle Gorge.....	West End of Eastward Siding and West End of House Track.
Kanaskat.....	West End of Wye.
Cranmar.....	
Newker.....	
Berrydale.....	
Switch lamps will not be maintained on above switches.	

## SPECIAL INSTRUCTIONS—Continued.

24. Commercial Spurs—	Miles from Ellensburg	How Connected	Car Capacity
Haybow.....	2.5	1 W	11
Swauk.....	13.5	1 E	3
Casway.....	19.1	1 E	88
Hubner.....	41.0	1 E	..
Nagrom.....	65.2	1 W	20
Forcamp.....	68.4	1 E	2
Baldi.....	73.3	1 E	8
Headworks.....	79.2	1 W	7
Henrys.....	89.6	1 E	..
Newker.....	90.6	1 E	..
Cranmar.....	92.0	1 W	4
Berrydale.....	95.6	1 E	..

## SECOND SUBDIVISION.

## (MAIN LINE.)

- At North Portal**—Westward N. P. trains from tunnel are governed by lower arm of semaphore located about 150 feet east of tower building. Eastward N. P. trains to the tunnel and to the waterfront are governed by semaphore signal located about 350 feet west of tower. Upper arm governs route to the tunnel; lower arm to the waterfront. Westward trains from the waterfront are governed by semaphore located about 300 feet east of tower. Upper arm governs movement, lower arm stationary in stop position. The dwarf signal at the base of this semaphore governs G. N. trains. At night and during foggy weather eastward trains will give one long blast of whistle for tunnel and three shorter blasts for waterfront. Westward trains from waterfront will give three blasts of whistle for N. P. main line.  
**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. Westward trains are governed by the semaphore block signal located about 50 feet south of the south portal of the King Street tunnel. Eastward trains are governed by the semaphore block signal located 250 feet north of the portal of this tunnel.
- Logs**—Freight trains containing cars loaded with logs must not be run via King Street Tunnel.
- Card train order Form AB** will govern the movement of trains between Lowell and Everett and between Everett and G. N. Junction and trains must not move in this territory unless conductor and engineer each holds a copy properly filled out. N. P. Eastward trains secure card order at Delta Wye authorizing movement from G. N. Jct. to Everett and Westward trains will turn in card authorizing movement Everett to G. N. Jct. at Delta Wye.
- Draw spans Skagit River Bridge between Sedro-Woolley and Clear Lake Salmon Bay Bascule Drawbridge, between Interbay and Fremont.** Home signal located east of Salmon Bay Bascule Drawbridge between Interbay and Fremont is equipped with two arms, upper arm when perpendicular controls movement to Fremont, lower arm when diagonally or caution controls movement to Ballard.
- Pusher District**—Between Snohomish and Woodinville.
- At Fremont**—Depot is located one-half mile west of passing siding. Yard limit rules will govern between location of yard limit board 2500 feet west of Fremont to end of double track.
- At Everett**—Normal position of gate at G. N. Crossing freight house track, one mile west of Lowell, is against N. P. trains.
- At Sedro-Woolley**—G. N. Crossings are protected against eastward N. P. trains by hand throw derail 200 feet west of first crossing. Derail must be left in derail position when N. P. track is not in use. Normal position of gate at P. S. & B. Ry. crossing, just west of Depot, is against N. P. trains.
- Delta Wye Interlocking**—Westward trains will call for route by one long, one short, one long blast of whistle. Eastward trains by two long, one short, one long blast of whistle.
- At Wickersham**—Nos. 443 and 444 make a back-up movement between the east wye switch and the depot. This movement must be properly protected.
- Bridge Restrictions**—Twenty (20) miles per hour over Bascule bridge, about one mile east of Fremont. Twenty (20) miles per hour over draw span of Bridge 85, Skagit River. Twenty (20) miles per hour over draw span of Bridge 38, Shohomish River.
- Engine Restrictions**—At Delvan engines must not go beyond right-of-way line on Clipper Shingle Co.'s track connected from McDonald's Spur, and must not use cross-over from Siding No. 1 to Siding No. 2. Class W or heavier power must not go in on following spurs and tracks: Tiloh. Cream and Cannery Spur, and transfer track—Sedro-Woolley.

Class W-3 or heavier engines must not go on Mill track at McMurray, or on 20 degree curve east of Standard Oil road crossing on condensary track at Arlington. Class S. Power is restricted from use of above spurs and tracks, except may go in as far as bridge at Tiloh. Engines must not go in beyond 50 feet from frog on Weyerhauser Spur, Everett, account 16-degree curve. Engines must not go in beyond 10 feet from frog on Brick Spur, Woodinville, account 18 degree curve. Engines must not go on log rollway bridge at Fremont.

- Speed Restrictions**—Six (6) miles per hour over public Road crossing leading to G. N. dock at Smith Cove. Fifteen (15) miles per hour over the crossing on Northlake Avenue located between yard limit board and Gas Works west of Fremont. Six (6) miles per hour between Clay and Bell Streets.
- Special Stops, Connections, etc.**  
Nos. 443 and 444 will stop on flag at Prairie, Pilchuck, Hoogdale, Delvan, Forest Home, Nookcham, Ehrlich, Days, Cathcart, Grace, Wayne, Kenmore, Lake Forest Park, Briarcrest, Lavilla, Pontiac and Keith. All eastward trains will stop west of County road crossing at Kruse before entering G. N. Ry.
- Register Stations**—Seattle (King St. Station), Woodinville, Kruse, G. N. Station, Snohomish, Sedro-Woolley, Wickersham, Everett and Sumas.
- Register Exceptions**—Kruse and G. N. Station, Snohomish, trains register by ticket, form 608.
- Bulletin Stations**—Arlington, Sedro-Woolley, Everett and Seattle (King St. Station).
- Standard Time Clocks**—Sedro-Woolley, Everett, Seattle (King St. Station and round house) Middle yard and Interbay.
- Watch Inspectors**—Everett, Charles M. Smith; Sedro-Woolley, Horace Condy. Seattle, W. H. Houghton and Son, 215 Yesler Way.
- Commercial Spurs**—

	Miles from King St. Station	How Connected	Car Capacity
Edgewater.....	7.2	1 E	8
Latona.....	8.7	1 E	4
Wood Spur.....	11.2	1 W	16
Keith.....	12.2	1 W	13
Pontiac.....	12.8	..	..
Hozler.....	13.0	1 E	3
Lavilla.....	14.7	..	..
Briarcrest.....	17.7	..	..
Lake Forest Park.....	18.6	1 W	8
Kenmore.....	19.8	1 E	12
Wayne.....	21.8	1 E	3
Hannan.....	22.2	1 E	14
Bear Creek.....	26.4	1 E	6
Grace.....	26.6	..	..
Cathcart.....	33.7	1 W	12
Cobbner.....	36.1	1 W	..
Ivanwood.....	57.2	..	..
M. & A. Tfr.....	59.7	1 E	..
Pilchuck.....	66.9	Siding	20
Days.....	69.2	Siding	7
Holo.....	72.5	1 E	..
Ehrlich.....	74.3	1 E	2
Nookecham.....	80.3	..	..
Tiloh.....	80.7	1 E	12
Forrest Home.....	81.8	..	..
Skagit Junction.....	85.5	1 E	7
Norlum Spur.....	87.6	1 E	Spur
Whitmarsh (on Norlum Spur).....	88.1	1 E	..
Hospital Spur (on Norlum Spur).....	90.3	1 E	Spur
Delvan.....	89.9	Siding	41
Hoogdale.....	92.2	1 W	4
Prairie.....	95.8	1 W	..
Draydon.....	96.8	1 E 1 W	Conn.
Morgood.....	101.1	1 E	3
Saxon.....	102.1	1 E	6
Folum.....	102.8	1 W	4
Clipper.....	107.3	1 W	4
Coyne.....	109.2	1 E	9
Van Zandt.....	109.4	1 W	8
Case.....	110.6	1 E	13
Lawrence.....	116.3	1 E	6
- Derail Switches** are located as follows and must be kept set in derailing position when not in use:  
Keith-Spur.  
Kenmore-East and West End Siding.  
Maltby-Florence Log Spur.  
Edgcomb-M. & A. Connection

Arlington—East End of House Track.  
Arlington—West End of House Track.  
Arlington—Gravel Pit.  
Arlington—Lead Track West End.  
Bryant—New M. & N. Connection.  
Bryant—West End Siding.  
Pilchuck—East End Siding.  
McMurray—West End Log Rollway.  
Holo—Spur Track.  
Montborne—East End Siding.  
Chilco—Spur Track.  
Clear Lake—West End Siding.  
Sedro-Woolley—G. N. Transfer Track.  
Sedro-Woolley—Coal Bunker Track.  
Sedro-Woolley—Cinder track.  
Delvan—East End Siding.  
Thornwood—West End Siding.  
Hoogdale—Spur.  
Prairie—Connection to old line.  
Wickersham—Christie's Spur.  
Standard—East and West End Siding.

## THIRD SUBDIVISION.

## (ROSLYN BRANCH.)

- At Roslyn** Eastward trains departing must keep at least twenty (20) minutes apart.
- At Beekman**, engines must not pass under the tipple tracks on the Roslyn Fuel Companys' tracks.
- At Cle Elum**, Eastward trains must come to a stop 1200 feet west of wye switch and run carefully from that point expecting to find main track occupied.
- Speed Restrictions**—Cle Elum ten (10) miles per hour through incorporated city limits.
- Register Station**—Cle Elum.
- Bulletin Station**—Cle Elum.
- Derail Switches**—Cle Elum—Upper switch at the head of wye toward Roslyn, will be set for the east leg. Roslyn—East End Siding.

## FOURTH SUBDIVISION.

## (BELT LINE.)

- At Kirkland**, Depot is located 2250 feet east of passing siding.
- At Wilburton**, Depot is located 600 feet east of passing siding.
- At Black River**, normal position of wye switch is for Tacoma leg.
- Engine Restrictions**—At Renton, engines must not enter Glass Works spur, or go beyond frog on Rainier Valley lines interchange track. Class "W" or heavier engines must not go beyond frog on coal tracks. At Briquetville, N. P. engines must not go on loading track account of insufficient clearance.
- Speed Restrictions**—Class "W" and heavier engines, twenty (20) miles per hour between Black River and Woodinville.
- Register Stations**—Black River and Woodinville.
- Register Exceptions**—Black River, all trains register by ticket, Form 608.
- Commercial Spurs**—

	Miles from Black River	How Connected	Car Capacity
Briquetville.....	4.0	1 W	Conn.
Norco.....	5.0	1 E	..
Kennydale.....	5.4	..	..
May Creek.....	6.7	1 E	4
Hazelwood.....	7.4	..	..
Factoria.....	10.0	..	..
Midlakes.....	12.7	1 E	5
Periton.....	16.6	1 E	2
Houghton.....	16.9	..	..
Firloch.....	19.8	1 E	3
- Derail Switches**—P. C. R. R. Crossing at Renton is protected by derails seventy-five feet east and seventy-five feet west of the crossing and operated by switch stand between the P. C. R. R. Tracks. Normal position of derails is against N. P. trains. Midlakes—Godsey's Spur.

SPECIAL INSTRUCTIONS—Continued.

FIFTH SUBDIVISION.

(SNOQUALMIE BRANCH.)

- At North Bend**, normal position of west wye switch will be for the wye.
- At Preston** depot is located one half mile west of passing siding. Trains departing must keep at least fifteen (15) minutes apart.
- Bridge Restrictions**—Twenty (20) miles per hour over truss bridges and high trestles.  
Ten (10) miles per hour over Bridge 31.2.  
Speed will be restricted over Bridge 6, Sammamish River; Bridge 27.1, Raging River and Bridge 35, Snoqualmie River, and spans on spur leading to Snoqualmie Lumber Company's mill as follows:  
Single header engine 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 class Q-1 and heavier not permitted.
- Speed Restrictions**—Trains handling logs must not exceed fifteen (15) miles per hour.  
Trains will not exceed twenty-five (25) miles per hour Woodinville to Fall City and fifteen (15) miles per hour Fall City to North Bend.
- Special Stops, Connections, etc.**  
Nos. 923 and 924 will carry adult male passengers between Woodinville and North Bend.
- Register Stations**—Woodinville and North Bend.

Commercial Spurs—	Miles from Woodinville	How Connected	Car Capacity
Hargon.....	1.7	1 W	15
Hollywood.....	1.9	1 W	19
Earlmont.....	4.8	1 E	6
Bebe.....	7.4	1 E 1 W	35
Sammamish.....	9.8	1 E	6
Pickering.....	17.3	1 E	3
Topac.....	21.0	1 E 1 W	10
Grand Ridge.....	22.0	Siding	15
Niblock.....	32.5	1 W	100
Tanner.....	38.1	1 E	9
Weeks.....	38.3	1 E	20

- Derail Switches**—  
Preston—Mill Spur.  
Issaquah—Coal Mine track.

SIXTH SUBDIVISION.

(LOWELL LINE.)

- Card train order form AB**, will govern the movement of trains between Snohomish and Lowell and trains must not move in this territory unless conductor and engineman each holds a copy properly filled out, operators will not issue card for a steam train until preceding electric train has cleared the block.
- Draw Spans**—Ebey slough bridge and Snohomish river bridge.
- Bridge Restrictions.**  
Class F-1 or heavier engines six (6) miles per hour over Snohomish River and Ebey Slough drawbridges.  
No engine heavier than Class "W" may be run over this subdivision.
- Speed Restrictions.**  
Class F-1 or heavier engines fifteen (15) miles per hour between Snohomish and Lowell.
- Register Station**—Snohomish.

Commercial Spurs—	Miles from Snohomish	How Connected	Car Capacity
Sherwood.....	4.2	1 E	4

SEVENTH SUBDIVISION.

(HARTFORD LINE.)

- At Machias.** Depot is located just east of the passing siding.
- At Hartford.** Eastward freight trains will come to a stop at public road crossing just east of depot to clear Hartford Eastern Railway switch and ascertain that track is clear before proceeding.
- Draw Span**—Snohomish river bridge just east of Snohomish.
- Bridge Restrictions**—Twenty (20) miles per hour over draw spans of Bridge 38, Snohomish river.

- Speed Restrictions**—Passenger trains, thirty (30) miles per hour and freight trains, twenty (20) miles per hour between Snohomish and Hartford.
- Special Stops, Connections, etc.**  
No. 443 will stop on flag at Lake Cassidy and Sisco.
- Register Station**—Snohomish.

Commercial Spurs—	Miles from Bromart	How Connected	Car Capacity
Manney.....	11.2	1 E	2
Lake Cassidy.....	12.6	1 E	3
Sisco.....	18.3	1 E	15

- Derail Switches**—  
Hartford—East end of Passing track.  
Hartford—East end of House track.

EIGHTH SUBDIVISION.

(DARRINGTON BRANCH.)

- Speed Restrictions**—Trains handling logs must not exceed fifteen (15) miles per hour. All other trains, twenty-five (25) miles per hour between Arlington and Darrington.
- Bridge Restrictions**—Trains handling logs must not exceed ten (10) miles per hour over Howe truss bridges Nos. 2, 7, 10, 11.1, 18 and 22.  
Engines Class Q-1 and heavier will not be permitted.  
Speed will be restricted over Bridge 10, Deer Creek, and Bridge 18, Boulder Creek, to eight (8) miles per hour.
- Special Stops, Connections, Etc.**—Nos. 469 and 470 will stop at Cavano.
- Register Stations**—Arlington and Darrington.
- Register Exceptions**—Arlington third class and inferior trains register by ticket, Form 608.
- Bulletin Stations**—Arlington.

Commercial Spurs—	Miles from Arlington	How Connected	Car Capacity
Trafton.....	7.6	.....	..
Cavano.....	10.2	Sid'g No. 1	31
Gay.....	16.5	1 W	Conn.
Vallamont.....	20.6	1 E 1 W	9
Lampson.....	21.4	1 E	4
Alvey.....	23.1	1 E	12
Barco.....	24.6	1 E	20
Andron.....	27.9	Wye	..
Giles.....	29.2	1 W	15

- Derail Switches**—  
Cavano—West end.  
Tulker—East and west ends.  
Fortson—Spur.  
Barco—Spur.  
Wiese—Spur.  
Darrington—Main track, 300 feet west of depot.

NINTH SUBDIVISION.

(BELLINGHAM BRANCH.)

- At Bellingham**, flagman must precede all trains between Magnolia and Laurel Sts. Trains must stop and be preceded by flagman crossing Holly St. Insufficient clearance under the conveyor at the E. K. Wood Mill.  
Normal position of gate at G. N. crossing near E. K. Wood Mill is against N. P. trains.
- At Wickersham**—Nos. 443 and 444 make a back-up movement between the east wye switch and the depot. This movement must be properly protected. Wye switch will be set and locked for east leg.
- At Park**, Bloedel-Donovan log track must not be used beyond right of way.
- Bridge Restriction**—  
Ten (10) miles per hour over Bridge 14.
- Speed Restrictions**—  
Passenger trains will not exceed schedule time and freight trains will not exceed twenty (20) miles per hour between Wickersham and Bellingham, except Fifteen (15) miles per hour between Mile Post 5 and Mile Post 8.  
Eight (8) miles per hour over street car crossings at Kentucky Street and between that point and Bellingham Depot.  
Eight (8) miles per hour over street car crossing between Silver Beach and Larson.

- Special Stops, Connections, etc.**  
No. 443 stop on flag at Gale and Barker's Camp.  
No. 444 stop on flag at Barkers' Camp and Gale.

- Register Stations**—  
Wickersham and Bellingham.

- Bulletin Station**—  
Bellingham.

- Watch Inspector**—  
George E. Ludwig, Bellingham.

Commercial Spurs—	Miles from Wickersham	How Connected	Car Capacity
Gale.....	2.6	1 E	5
Sloman.....	2.7	1 W	29
Barker's Camp.....	9.5	..	..
Mogul Log Co.....	14.6	1 E	24
Matson.....	14.7	1 W	7

- Derail Switches**—  
Sloman.....Spur.  
Park.....Log Spur.  
Agate Bay.....West End Siding.  
Matson.....Spur.  
Larson.....East End Siding.  
Bellingham.....Rip Track.  
Bellingham.....Gas House Track.  
Between Bellingham and South Bellingham 568 feet east of G. N. crossing.

ALL SUBDIVISIONS.

- 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 them to flagging duties.
- To insure personal safety operators in double track territory, having train orders or messages for passing trains must stand on the right side of the train and never between the tracks.
- Trains pulling into side tracks or leaving the main line at junction points must pull entirely into clear main line before stopping to pick up the man attending the switch.
- Lap Sidings**—Unless otherwise instructed, trains taking sidings must head in at the lap.
- Siding blocked by occupied outfit cars must not be used to meet or pass trains.
- 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, or when running light without conductor, engine-men will only be required to consult register at initial or starting points.
- Brakemen will ride on top of freight trains descending mountain grades, except in case of inclement weather.
- Speed Restrictions.**  
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 fifty-five (55) miles per hour.  
Class W engines thirty (30) miles per hour and Class W-3 engines and heavier twenty-five (25) miles per hour.  
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.
- The following signs when placed in columns provided indicate:  
W—Water.  
C—Fuel.  
O—Track Scales.  
T—Turntable.  
Y—Wye.  
D—Day office only.  
DN—Day and night office.  
P—Telephone.  
X—Yard limits.



TONNAGE RATINGS—FREIGHT ENGINES.

FIRST SUBDIVISION—EASTWARD.

DISTRICT	Ruling Grade %	Class Z 3	Class Z	Class W 3	Class W	Class Y 5	Class Y 2	Class F 1	Class S	Class E 4	Class E 3	Class D 3	Class C 6
		Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Auburn to Lester.....	1.0	2400	1700	1600	1100	1100	900	900	800	500	475	475	350
Lester to Easton.....	2.2	1250	850	700	550	575	450	450	400	250	235	235	175
Easton to Ellensburg.....	Down	Maximum 99 Cars	Maximum 99 Cars	Maximum 99 Cars									

Between Lester and Easton maximum 80 cars.

FIRST SUBDIVISION—WESTWARD.

Ellensburg to Easton.....	0.8	3500	2100	2200	1700	1550	1300	1250	1200	700	670	670	545
Easton to Lester.....	2.2	1250	850	700	550	575	450	450	400	250	235	235	175
Lester to Auburn.....	Down	Maximum 99 Cars	Maximum 99 Cars	Maximum 99 Cars									

Between Easton and Lester maximum 80 cars.

DISTRICTS.	Ruling Grade %	Class W 3	Class W	Class Y 2	Class Y 5	Class S 4	Class F 1	DISTRICTS.	Ruling Grade %	Class W 3	Class W	Class Y 2	Class Y 5	Class S 4	Class F 1
		Tons	Tons	Tons	Tons	Tons	Tons			Tons	Tons	Tons	Tons	Tons	Tons
<b>Second Subdivision—Eastward.</b>								<b>Second Subdivision—Westward.</b>							
Sumas to Wickersham.....	0.5	2785	2200	2000	2245	1740	1650	Seattle to Interbay.....	0.0	5000	4135	3000	4135	3170	3000
Wickersham to Hoogdale.....	0.9	2500	2070	1800	2070	1585	1500	Interbay to Keith.....	1.2	1600	1100	1000	1100	900	900
Hoogdale to Clear Lake.....	0.3	5000	4000	3200	4000	3170	3000	Keith to Woodinville.....	0.4	3040	2480	2000	2480	1900	1800
Clear Lake to Edgecomb.....	0.6	2700	2300	2000	2300	1690	1600	Woodinville to Maltby.....	1.9	1000	830	780	830	635	600
Edgecomb to Bromart.....	0.4	4000	3600	3200	3600	2500	2500	Maltby to Bromart.....	0.5	2200	1800	1500	1800	1500	1400
Bromart and Snohomish to Maltby.....	1.8	1100	900	800	910	660	625	Bromart and Snohomish to Arlington.....	0.8	4000	3600	3200	3600	2500	2500
Maltby to Woodinville.....	Down	5000	4000	4000	4000	3170	3000	Arlington to McMurray.....	1.0	1600	1400	1250	1310	1000	950
Woodinville to Keith.....	0.7	2300	1800	1600	1800	1530	1450	McMurray to Sedro-Wooley.....	0.4	3040	2480	2000	2480	1900	1800
Keith to Seattle.....	0.5	2785	2245	2000	2245	1740	1650	Sedro-Woolley to Thornwood.....	1.0	1600	1300	1050	1300	1000	950
<b>Fourth Subdivision—Eastward.</b>								<b>Fourth Subdivision—Westward.</b>							
Woodinville to Kirkland.....	1.0	2205	1800	1600	1800	1215	1150	Black River to Woodinville.....	0.5	2365	1930	1700	1930	1480	1400
Kirkland to Black River.....	0.3	4650	3790	3200	3790	2900	2750	<b>Fifth Subdivision—Westward.</b>							
<b>Fifth Subdivision—Eastward.</b>								Woodinville to Issaquah.....	0.6			2100		1690	1690
North Bend to Falls City.....	0.7			1585		1740	1650	Issaquah to Preston.....	2.3			425		450	450
Falls City to Preston.....	2.0			475		580	550	Preston to Falls City.....	1.6			875		800	700
Preston to Woodinville.....	0.5			2000		1740	1650	Falls City to North Bend.....	0.7			1585		1485	1475
<b>Seventh Subdivision—Eastward.</b>								<b>Seventh Subdivision—Westward.</b>							
Edgecomb to Getchell.....	1.8	1180	950	800	950	740	700	Bromart and Snohomish to Hartford.....	0.6	1860	1515	1400	1515	1160	1100
Getchell to Snohomish.....	0.8	5000	4135	4000	4135	3170	3000	Hartford to Getchell.....	1.5	1400	1100	1000	1100	900	775
<b>Eighth Subdivision—Eastward and Westward.</b>								Getchell to Edgecomb.....	0.0	5000	4135	3000	4135	3170	3000
Arlington and Darrington.....	0.8			4000	4000	3000	3000	<b>Ninth Subdivision—Westward.</b>							
<b>Ninth Subdivision—Eastward.</b>								Wickersham to Mirror Lake.....	2.2	930	760	750	760	580	550
Bellingham to Larson.....	2.1	900	725	600	725	555	525	Mirror Lake to Silver Beach.....	0.9	2200	1800	1500	1800	1250	1250
Larson to Wickersham.....	0.9	3040	2400	1000	2400	1900	1800	Silver Beach to Larson.....	1.2	1860	1515	1200	1515	1160	1100
								Larson to Bellingham.....	Down	Maximum 80 Cars.					

ALL SUBDIVISIONS—Continued.

**AUTHORIZED SURGEONS**

**LOCATION OF STRETCHERS (S).**

DR. P. A. REMINGTON, Chief Surgeon, Western District, Tacoma.  
 DR. A. H. BUIS, Assistant Surgeon, Tacoma.  
 DR. R. D. WRIGHT, Assistant Surgeon, Tacoma.  
 DR. V. C. SOUTHWORTH, Interne, Tacoma Hospital.  
 DR. W. T. WILLIAMS, Interne, Tacoma Hospital.  
 DR. FREDERICK ADAMS, Oculist, Seattle.  
 DR. P. W. WILLIS, Seattle.  
 DR. E. C. GROSS, Seattle.  
 King St. Station, Seattle (S).  
 Yard Office, Seattle (S).  
 DR. I. J. D. SHULER, Seattle.  
 DR. C. L. DIXON, Renton.  
 DR. E. M. ADAMS, Arlington (S).  
 DR. N. S. McCEADY, Snohomish (S).  
 DR. W. C. COX, Everett (S).  
 DR. C. M. HUNTER, Sedro-Woolley (S).  
 DR. S. W. HOLTON, Sedro-Woolley.  
 DR. W. E. GIBSON, Issaquah (S).  
 DR. E. S. CLARK, Sumas (S).  
 DR. R. T. BURKE, North Bend.  
 DR. ERNEST E. McKIBBEN, Kirkland.  
 DR. A. M. SMITH, Bellingham (S).  
 Woodinville (S).  
 DR. J. C. McCAULEY, Ellensburg (S).  
 DR. R. R. PINKARD, Ellensburg (S).  
 Easton (S).  
 Lester (S).  
 DR. E. C. HESTON, Roslyn.  
 DR. F. W. McKNIGHT, Cle Elum (S).  
 DR. B. E. HOYE, Auburn.  
 DR. WM. H. BRANDT, Auburn.  
 Auburn Yard Office (S).  
 Auburn Station (S).  
 DR. A. E. HILLIS, Oculist, Tacoma.  
 DR. W. G. CAMERON, Specialist, Tacoma.  
 N. P. B. A. Hospital, Tacoma (S).  
 DR. W. B. MITCHELL, Sumner.  
 DR. C. E. JUDD, Sumner.  
 DR. W. M. KARSHNER, Puyallup.  
 DR. F. J. CULLEN, Puyallup.  
 DR. G. M. MCGREGOR, Kent, Wash.  
 First aid boxes located at the following points.  
 Bristol, Eagle Gorge, Kanaskat, Ravensdale.

**NOTE**

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

**SPEED TABLE**

Time	Per Mile		Miles Per Hour
	Mins.	Secs.	
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	21		18
3	31		17
3	45		16
4	..		15
5	..		12
6	..		10
7	30		8
10	..		6

**MAXIMUM CLEARANCES.**

		LIMIT OF LOAD—MEASUREMENT																		Max. Height	Max. Width
		HEIGHT ABOVE TOP OF RAIL																			
		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. 2 in. Wide	10 ft. 6 in. Wide	11 ft. Wide	11 ft. 6 in. Wide			
1st Subdivision...	Main Line (Ellensburg-East Auburn).....	17' 5"	17' 4"	17' 3"	17' 1"	16' 11"	16' 8"	16' 1"	15' 10"	15' 6"	15' 2"	14' 10"	14' 6"	14' 2"	14' 0"	13' 9"	13' 4"	12' 4"	17' 5"	11' 6"	
2nd Subdivision...	Main Line (Seattle "King St. Station" to Sumas).....	20' 3"	20' 3"	20' 3"	20' 3"	20' 3"	20' 3"	20' 3"	20' 3"	20' 2"	19' 2"	18' 6"	17' 8"	17' 0"	16' 8"	16' 1"	15' 5"	14' 6"	20' 3"	11' 6"	
3rd Subdivision...	Roslyn Branch.....	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	20' 11"	11' 6"	
4th Subdivision...	Belt Line (Black River-Woodinville).....	21' 6"	21' 5"	21' 5"	21' 5"	21' 4"	21' 4"	21' 4"	21' 4"	21' 4"	21' 3"	21' 3"	21' 3"	21' 3"	21' 3"	21' 2"	21' 0"	20' 9"	21' 6"	11' 6"	
5th Subdivision...	Snoqualmie Branch.....	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	19' 2"	11' 6"	
6th Subdivision...	Everett 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"	19' 0"	11' 6"	
7th Subdivision...	Hartford Line (Bromart-Edgecomb).....	21' 3"	21' 3"	21' 3"	21' 3"	21' 3"	21' 3"	21' 2"	21' 1"	20' 11"	20' 9"	20' 7"	20' 4"	20' 2"	20' 1"	19' 11"	19' 9"	19' 7"	21' 3"	11' 6"	
8th Subdivision...	Darrington Branch.....	19' 1"	19' 1"	19' 1"	19' 1"	19' 1"	19' 1"	19' 1"	19' 1"	19' 1"	19' 1"	19' 1"	19' 1"	19' 1"	18' 8"	18' 3"	17' 8"	17' 1"	19' 1"	11' 6"	
9th Subdivision...	Bellingham Branch.....	19' 2"	19' 2"	17' 11"	17' 11"	17' 11"	17' 11"	17' 11"	17' 11"	17' 1"	16' 10"	16' 8"	16' 4"	15' 11"	15' 7"	15' 5"	15' 0"	14' 7"	19' 2"	11' 6"	

**J. J. McCULLOUGH**  
Assistant Superintendent.

**J. H. ROBINSON**  
Trainmaster.

**J. E. CAMPBELL**  
Trainmaster.

**J. J. SEXTON**  
Trainmaster.

**E. H. FRIBERG**  
Chief Dispatcher.

