

# GREAT NORTHERN RAILWAY

MARCH DIVISION.



## TIME TABLE No. 9

TO TAKE EFFECT AT TWELVE-O'CLOCK A. M.  
PACIFIC TIME

### SUNDAY, NOVEMBER 28, 1915.

Superseding Time Table No. 10 and its supplements thereto.

**THIS TIME TABLE IS FOR THE USE OF EMPLOYEES ONLY.**

F. D. KELSEY, Superintendent.

GEO. S. STEWART, Asst. General Superintendent.

W. C. WATROUS, General Supt. of Transportation.

J. H. O'NEILL, General Superintendent.

GEO. H. EMERSON, General Manager.

**NORTH BOUND.**

**FIRST DISTRICT—SPOKANE TO MARCUS.**

**SOUTH BOUND.**

**Special Rules.**

South bound trains are superior to north bound trains of the same class.

First class trains must not exceed speed of thirty-five (35) miles per hour between Dean and Valley; forty (40) miles between Valley and Meyers Falls; and twenty-five (25) miles between Meyers Falls and Marcus; and inferior class trains must not exceed speed of twenty (20) miles per hour between Dean and Marcus.

Freight trains Nos. 701 and 702 will carry passengers when provided with proper transportation.

Trains Nos. 255 and 256 will stop on flag at Mission.

Train No. 256 will stop on flag at Blue Creek and Arden to take on passengers only.

Trains Nos. 257 and 258, 261 and 262 will stop on flag at Buckeye, Holland Horr Spur, Kulzers, Blue Creek and Mission.

The normal position of wye switches at Marcus is for Second District.

All north bound trains will be required to make service test of air brakes at Meyers Falls before descending Marcus hill.

Derailing switches at Dean, Darts, Clayton, Pine, Springdale, Clines, Grays, Kulzers, Valley coal chute track, and Standard Oil Spur, Colville.

Yard limit boards 1/2 mile north of Dean, each way from Valley, and 1/2 mile south of Marcus.

**INITIAL STATIONS.**

Dean for trains 256, 262, 258 and 702.  
Marcus for trains 257, 255, 261 and 701.

**TERMINAL STATIONS.**

Marcus for trains 256, 262, 258 and 702.  
Dean for trains 257, 255, 261 and 701.

**Business Tracks Not Shown as Stations on Time Table.**

NAME	Miles from Spokane	Switch at	Car Capacity
Standard Mill Spur.....	27.0	Private Spur	8
Olsons.....	29.0	South End	12
Pine.....	33.8	South End	82
New Ice Loading Siding.....	36.5	Siding	23
Ice Spur No. 1.....	37.0	South End	19
Ice Spur No. 2.....	42.3	South End	3
Denton.....	43.1	South End	8
Holland Horr.....	45.7	South End	10
Robbin's Spur.....	49.5	South End	4
Wash. Fuel Co.....	54.7	North End	9
Kulzers.....	59.3	South End	3
Gess Spur.....	63.3	North End	9
Chewelah Mill.....	64.5	South End	8
Chewelah Brick Co.....	70.1	South End	13
Blue Creek.....	70.1	South End	5
Elkhorn.....	83.0	Siding	8
Winstow Siding.....	90.2	North End	15
Palmers.....	87.6	North End	7
Standard Oil Spur.....			

THIRD CLASS	FIRST CLASS				Car Capacity of Siding	Distance from Spokane	Time Table No. 9 In Effect November 28, 1918				Signs See Rule 3, page 11.	FIRST CLASS			THIRD CLASS
	702	258	262	256			257	255	261	701					
	Freight Daily Ex. Monday	Passenger Daily Ex. Sunday	Passenger Sunday Only	Passenger Daily Ex. Sunday			Passenger Daily Ex. Sunday	Passenger Daily Ex. Sunday	Passenger Sunday Only	Freight Daily Ex. Tuesday					
	Lv 4.40pm	Lv 8.55am	Lv 8.55am			SPOKANE	F	101.2	R@ W	Ar 10.25am	Ar 5.30pm	Ar 8.05pm			
	Lv 9.00am	4.55	9.10	9.10	4.7	HILLYARD	SQ	96.5	R@DN WCTO	10.10	5.15	7.45	Ar 9.20pm		
<b>TRAINS BETWEEN SPOKANE AND DEAN WILL BE GOVERNED BY SPOKANE DIVISION TIME TABLE AND RULES.</b>															
	2.40	5.23	9.30	9.30	53	DEAN	SF	87.4	R DN W	9.50	4.55	7.25	1.25		
	3.00	5.33	9.40	9.40	52	WAYSIDE		83.6		9.40	4.42	7.12	12.35		
	3.20	5.41	9.47	9.47	12	DARTS		80.5		9.33	4.35	7.03	12.15pm		
	3.35	5.49	9.53	9.53	17	DENISON		78.5		9.28	4.30	6.58	11.55		
	4.00	6.00	10.02	10.02	64	DEER PARK	DE	74.7	D W	9.20	4.22	6.50	11.30		
	4.26	6.09	10.10	10.10	27	CHRISTIANSON		70.5		9.09	4.08	6.38	11.03		
	4.30	6.13	10.15	10.15	50	CLAYTON	CN	69.6	D	9.08	4.06	6.36	11.00		
	5.15	6.28	10.35	10.35	52	LOON LAKE	AK	62.8	D W	8.50	3.50	6.20	10.35		
	6.00	6.48	10.55	10.55	52	SPRINGDALE	SY	54.7	D W	8.23	3.27	5.50	9.20		
	6.05	6.51	10.58	10.58	25	CLINE		53.6		8.18	3.19	5.46	9.10		
	6.35	6.59	11.06	11.06	35	GRAYS		49.2		8.07	3.09	5.36	8.40		
						KULZERS TANK		46.5	W						
	7.05	7.12	11.14	11.14	52	VALLEY	VY	44.7	D CV	7.55	2.54	5.21	8.05		
	8.35	7.29	11.29	11.29	26	CHEWELAH	CH	37.2	D	7.35	2.39	5.05	6.25		
	9.25	7.50	11.49	11.51	19	ADDY	AD	28.0	W	7.13	2.19	4.43	5.30		
	10.05	8.05	12.04	12.04	52	ARDEN		20.7		6.55	2.04	4.25	4.50		
	10.20	8.14	12.10	12.10	24	KIEL		17.6		6.48	1.58	4.18	4.35		
	10.45	8.25	12.17	12.20	46	COLVILLE	VD	14.1	D W	6.40	1.50	4.10	4.15		
	11.50	8.45	12.40	12.40	40	MEYER'S FALLS	MF	5.5	D	6.20	1.28	3.50	3.40		
	Ar 12.20pm	Ar 9.00pm	Ar 12.55pm	Ar 12.55pm	52	MARCUS	MS	0.0	R@ DN WC Y	6.00am	1.05pm	3.30pm	3.05am		
	Daily Ex. Monday	Daily Ex. Sunday	Sunday Only	Daily Ex. Sunday						Daily Ex. Sunday	Daily Ex. Sunday	Sunday Only	Daily Ex. Tuesday		
	702	258	262	256						257	255	261	701		
	10.20 9.3	4.20 21.4	4.00 25.3	4.00 25.3						4.25 22.9	4.25 23.	4.35 22.0	11.15 8.5		
Time Over District Average Speed Per Hour															

**NORTH BOUND.**

**SECOND DISTRICT—MARCUS TO NELSON.**

**SOUTH BOUND.**

THIRD CLASS		FIRST CLASS		Car Capacity of Siding	Passing Tracks	Other Tracks	Distance from Marcus	Time Table No. 9 In Effect November 28, 1915.		Telegraph Calls	Distance from Nelson	SIGNS See Rule 3, page 11.	FIRST CLASS		THIRD CLASS	
704		260						259					703			
Freight		Passenger											Passenger		Freight	
Mon., Wed. and Fri.		Daily Ex. Sunday											Daily Ex. Sunday		Tue., Thur. and Sat.	
STATIONS																
Lv 6.00Am		Lv 1.20Pm		52	244			MARCUS	MS	98.1	R@ DN WC Y		Ar 12.40Pm		Ar 12.10Pm	
6.50		1.38		31	19	8.7		BOSSBURG		89.4			12.18		11.35	
7.20		1.49			12	13.9		WILLIAMS		84.2			12.05Pm		11.10	
7.50		2.02			8	20.2		MARBLE		77.9			11.53		10.45	
8.27		2.24				27.7		RED MOUNTAIN JUNCTION		70.4			11.32		10.20	
8.30		2.25						NORTHPORT	NP	69.7	R@ DW C OY		11.30		10.15	
9.30		2.35		74	79	28.4		BOUNDARY		60.9			11.20		9.30	
10.10		3.00			29	37.2		WANETA	BR	58.8	D		10.45		8.45	
10.45		3.05			16	39.3		COLUMBIA GARDENS		54.9			10.33		8.15	
11.15		3.30			9	43.2		FRUITVALE		49.0	W		10.20		7.50	
12.30Pm		4.20			12	61.5		ERIE		36.6			9.47		7.10	
12.45		4.30			18	63.8		SALMO	SO	34.3	D		9.40		6.55	
1.30		4.50			15	71.4		YMIR	MY	26.7	D W		9.20		6.25	
2.15		5.10			18	78.6		HALL		19.5			9.00		6.00	
2.35		5.20			17	81.9		APEX		16.2			8.50		5.45	
3.05		5.40			29	88.6		MOUNTAIN		9.5	W		8.25		5.05	
3.30		6.00			40	93.5		TROUP JUNCTION		4.6	R	YK	8.05		4.30	
Via C. P. R. Ar 4.00Pm		Via C. P. R. Ar 6.20Pm				98.1		NELSON	A		R@ DN WCTO K	Via C. P. R. Lv 7.45Am		Via C. P. R. Lv 4.00Am		
Mon., Wed. and Fri.		Daily Ex. Sunday										Daily Ex. Sunday		Tue., Thur. and Sat.		
704		260										259		703		
10.00		5.00										4.55		8.10		
9.8		20.0										10.9		12.0		
Time Over District Average Speed Per Hour																

**Special Rules**

South bound trains are superior to north bound trains of the same class.

First class trains must not exceed a speed of thirty-five (35) miles per hour between Marcus and Waneta, and thirty (30) miles between Waneta and Troupe Junction. Inferior class trains must not exceed a speed of twenty-five (25) miles per hour between Marcus and Waneta, and twenty (20) miles per hour between Waneta and Troupe Junction. All trains must not exceed a speed of fifteen (15) miles per hour through Seven Devils, Hendrix Cut, at Bluffs along Columbia River three miles south of Northport, through Deadman's Eddy, and Boundary Bluffs one mile south of Waneta; by mud slides just north of Waneta through Beaver Canyon, and must not exceed speed of ten (10) miles per hour over Pend d'Oreille bridge at Waneta.

Freight trains Nos. 703 and 704 will carry passengers when provided with proper transportation.

Trains Nos. 259 and 260 will stop on flag at Evans, Kane, Wood Spur, Boundary, Porto Rico, Benton Spur and Meadows.

The normal position of switch at Red Mountain Junction is for Second District, Main Line.

Train and enginemen must provide themselves with Canadian Pacific Railway Book of Transportation Rules and Current Time Table, and be governed by same and Canadian Pacific bulletins and special instructions while using that company's track between Troupe Junction and Nelson.

Switch connecting N. & F. S. and C. P. R. Main Lines at Troupe Junction is protected by semaphore. All trains must come to full stop before reaching Junction switch, and must know that track is clear before using Canadian Pacific main line.

All north bound trains will be required to make service test of air brakes at Apex before descending Nelson hill.

No trains will leave Northport or Waneta until conductor has reported to and received clearance from customs officer.

Derailing switches at Williams, Meadows and Benton Pole Co.

Water four miles south of Marble.

Yard limit boards 1/2 mile north of Marcus and each way from Northport.

**INITIAL STATIONS.**

Marcus for trains 260 and 704.

Troupe Junction for trains 259 and 703.

**TERMINAL STATIONS.**

Marcus for trains 259 and 703.

Troupe Junction for trains 260 and 704.

**Business Tracks Not Shown as Stations on Time Table.**

NAME	Miles from Marcus	Switch at	Car Capacity
Evans	5.0	South End	20
Hendrix Cut	12.3	North End	8
Ryans	17.1	South End	3
Onion Creek	23.4	Siding	7
Kanes	23.7	South End	7
Hanleys	30.1	Siding	12
Wood	33.5	South End	3
Rush	35.1	South End	5
Old Boundary	38.3	South End	8
Benson & Ross	53.8	South End	3
Benton Pole Co.	56.0	South End	4
Meadows	57.9	South End	6
Kootenay Shingle Co.	63.6	North End	38
Salmo Cedar Co.	68.7	South End	6
Clarkson Bros.	71.7	North End	4
Tamarack Spur	73.3	North End	3
Porto Rico	74.8	North End	5

**NORTH BOUND.**

**THIRD DISTRICT—MARCUS TO OROVILLE.**

**SOUTH BOUND.**

**Special Rules.**

South bound trains are superior to north bound trains of the same class.

First class trains must not exceed a speed of forty (40) miles per hour between Marcus and Midway, thirty (30) miles between Midway and Molson, twenty-five (25) miles between Molson and Oroville. Second and inferior class trains must not exceed a speed of twenty-five (25) miles per hour between Marcus and Molson, fifteen (15) miles between Molson and Oroville. All trains must not exceed a speed of ten (10) miles per hour over Bridge No. 1, over Columbia River, and fifteen (15) miles at High Bluffs one mile north of Bridesville, at Mile Post thirty-eight, one mile south to two miles north of Bergen, and over high fills one mile south to one mile north of Syaackan.

Train No. 256 will register in booth provided for that purpose at Oroville Jet. wye.

Freight train Nos. 707 and 708 will carry passengers when provided with proper transportation.

Trains Nos. 255 and 256 will stop on flag at Godfrey and Rock Cut.

Normal position of switch at Oroville Junction is for Marcus-Oroville Line.

The normal position of wye switches at Curlew is for Marcus-Oroville Line.

Siding back of Marcus passenger depot must be left clear for passenger trains.

Trains will come to full stop before crossing Kettle Valley Ry. at Grand Forks Junction, sending flagman ahead before crossing.

Service test of air brakes must be made before leaving Molson in either direction.

North bound passenger trains will stop at Circle, ten minutes to cool wheels.

North bound freight trains will not follow passenger trains any closer than twenty-five minutes between Molson and Oroville.

North bound freight trains will stop at Circle and Mount Hull at least fifteen minutes to cool wheels.

Water 1/4 mile north of Laurier.

Derailing switches at Bergen, Myncaster, Syaackan, Bridesville, Nine Mile, Circle and Mount Hull.

No trains will leave Laurier, Danville, Ferry, Midway, Bridesville or Molson, until after conductor has reported to and received clearance from Customs Officer.

Yard limit boards placed 1/2 mile north of Marcus, 1/2 mile south of Grand Forks Junction, each way from Curlew, and 1/2 mile south of Oroville.

**INITIAL STATIONS:**

- Marcus for trains 256 and 706.
- Grand Forks for trains 705 and 708.
- Oroville for trains 251, 255, 699 and 707.
- Oroville Jet for trains 252 and 700.

**TERMINAL STATIONS:**

- Marcus for trains 255 and 705.
- Grand Forks for trains 706 and 707.
- Oroville for trains 252, 256, 700 and 708.
- Oroville Jet. for trains 251 and 699.

**Business Tracks Not Shown as Stations on Time Table.**

NAME	Miles from Marcus	Switch at	Car Capacity
Pine Lumber Co.....	1.0	South End	5
Godfrey.....	4.0	South End	14
Napoleon Spur.....	6.2	South End	Private Mine Spur
Onnen.....	9.8	South End	3
Walsh Lumber Co.....	20.5	North End	4
Richeys.....	88.8	South End	4
Porters.....	102.6	North End	Private Mill Spur

**Location and Length of Tunnels.**

No.	LOCATION	Length in Feet
1	2 2 miles South of Curlew.....	113 feet.
2	2 3 miles South of Bergen.....	900 feet.
3	3/4 mile North of Bergen.....	116 feet.
4	1 9 miles North of Bergen.....	113 feet.
5	1 4 miles West of Myncaster.....	350 feet.
6	1 3 miles South of Oroville.....	448 feet.

THIRD CLASS		FIRST CLASS		Car Capacity of Sidings	Passing Tracks	Other Tracks	Distance from Marcus	Time Table No. 9 In Effect November 28, 1915			Distance from Oroville	SIGNS See Rule 3, page 11.	FIRST CLASS		THIRD CLASS		
706	708	252 Spo. Div. 253	256					STATIONS	255	251 Spo. Div. 254			707	705			
Freight	Freight	Passenger	Passenger														
Daily Ex. Monday	Mon., Wed. and Fri.	Daily Ex. Sunday	Daily Ex. Sunday										Daily Ex. Sunday	Daily Ex. Sunday	Tue., Thur. and Sat.	Daily Ex. Monday	
Lv 6.00pm			Lv 1.15pm	52	244			MARCUS.....	MS	123.0	R@DN WC Y		256 Ar 12.50pm			Ar 3.05Am	
6.30			f 1.30	41		5.3		5.3 BOYDS.....		117.7			f 12.38			2.25	
7.15			f 1.42	41		10.2		4.9 BARSTOW.....		112.8			f 12.27			2.00	
7.45			f 1.52	41		15.4		5.2 DULWICH.....		107.6	W		f 12.16			1.40	
8.05			s 1.56		7	16.8		1.4 ORIENT.....	RN	106.2	D		s 12.11			1.30	
8.25			2.08	41		21.5		4.7 HUGHES.....		101.5			12.01pm			1.05	
8.50			2.20	60	45	27.4		5.9 LAURIER.....	BD	95.6	W		s 11.46			12.40 12.20Am	
9.20			s 2.35					6.0 LAURIER.....		89.6			f 11.30			11.55	
9.45			f 2.48	41		33.4		6.0 RIDEAU, B. C.....		82.7	R Y		11.15			11.30	
10.15			3.05	27		40.3		6.9 GRAND FORKS JCT.....		82.7	R Y		11.15			11.30	
Ar 10.20pm	Lv 8.00Am		3.15 s 3.20	42	74	41.8		1.2 GRAND FORKS.....	GF	84.2	R@D WC Y		11.10 s 11.05		Ar 3.30pm	Lv 11.20pm	
Daily Ex. Monday	8.05		707 3.25					1.5 GRAND FORKS JCT.....		82.7	R		10.50		256 3.25	Daily Ex. Monday	
706	8.25		s 3.40	64	44	41.8		1.5 DANVILLE, WASH.....	CO	81.2	D W		s 10.45		3.10	705	
4.20 9.6	8.50		f 3.50	40		45.9		4.1 HURLBURT.....		77.1			f 10.32		2.50	3.45 11.1	
	9.30		s 4.05	61		52.2		6.3 CURLEW.....	W	70.8	R D W Y		s 10.20		2.05		
	10.02		f 4.19	40		58.1		5.9 PAXSON.....		64.9			f 10.02		1.30		
	10.20		f 4.28	38		62.2		4.1 TORODO.....		60.8			f 9.55		1.10		
	10.40		s 4.40		30	66.8		4.6 FERRY WASH.....		56.2	W		s 9.45		12.45		
	11.10		s 4.50	50	47	67.0		0.2 MIDWAY, B. C.....	MD	56.0	D Y		s 9.38		12.15pm		
	11.40		f 5.13	38	10	75.5		8.5 BERGEN.....		47.5	W		f 9.23		11.30		
	12.11pm		s 5.29	40	16	81.2		5.7 MYNCASTER.....	MC	41.8	D W		s 9.10		11.01		
	12.40		f 5.40	47	6	86.1		4.9 SVACKAN.....		36.9			f 9.00		10.35		
	1.25		s 6.00	40	31	92.7		6.6 BRIDESVILLE, B. C.....	BV	30.3	D W		s 8.45		10.00		
700	1.55		s 6.15	52	85	97.7		5.0 MOLSON, WASH.....	MO	25.3	D W Y		s 8.30		9.30	699	
Spokane Div. 697	2.35		f 6.35	40	9	104.8		7.1 NINE MILE.....		18.2	W		f 7.55		8.45	Spokane Div. 698	
Local Freight	3.00		s 6.45	40	9	108.9		4.1 CIRCLE.....		14.1			f 7.35		8.20	Local Freight	
Mon., Wed. and Fri.	4.00		f 7.16	40	8	115.8		6.9 MOUNT HULL.....		7.2	W		f 7.00		7.40	Tue., Thur. and Sat.	
Lv 6.50pm	5.05	Lv 10.05pm	7.37			122.13		6.33 OROVILLE JCT.....		.87	R Y		6.32	Ar 7.18Am	7.05	Ar 6.55Am	
Ar 7.00pm	Ar 5.10pm	Ar 10.15pm	Ar 7.40pm	70	256	123.0		8.7 OROVILLE.....	H		R@D WC		Lv 6.30Am	Lv 7.15Am	Lv 7.00Am	Lv 6.45Am	
Mon., Wed. and Fri.	Mon., Wed. and Fri.	Daily Ex. Sunday	Daily Ex. Sunday										Daily Ex. Sunday	Daily Ex. Sunday	Tue., Thur. and Sat.	Tue., Thur. and Sat.	
700	708	252	256										255	251	707	699	
0.10 5.2	9.10 9.19	0.10 5.4	6.25 19.17										6.20 19.4	0.3 17.4	8.30 9.9	0.10 5.4	
Time Over District Average Speed Per Hour																	

**NORTH BOUND.**

**FOURTH DISTRICT—CURLW TO REPUBLIC.**

**SOUTH BOUND.**

SECOND CLASS		Car Capacity of Sidings	Distance from Curlew	Time Table No. 9 In Effect November 28, 1915		SIGNALS See Rule 3, page 11.	SECOND CLASS		
394	392			STATIONS	391		393		
Mixed	Mixed	Passing Tracks							
Daily Ex. Sunday	Daily Ex. Sunday	Other Tracks							
Lv 4:10Pm	Lv 10:25Am	61			W 21.2	R D W Y	Ar 10:10Am	Ar 3:50Pm	
f 4:24	f 10:42	43	5.4	CURLW			f 9:53	f 3:20	
f 4:41	f 11:10	44	12.7	5.4 MALO			f 9:35	f 2:55	
f 4:52	f 11:25	41	16.2	7.3 POLLARD		W	f 9:25	f 2:45	
Ar 5:10Pm	Ar 11:40Am	58	40	3.5 TORBOY			Lv 9:10Am	Lv 2:30Pm	
Daily Ex. Sunday	Daily Ex. Sunday			5.0 REPUBLIC	Z	R@ D W C Y	Daily Ex. Sunday	Daily Ex. Sunday	
394	392						391	393	
1.00	1.15						1.00	1.20	
21.2	16.9						21.2	15.9	
				Time Over District Average Speed Per Hour					

**Special Rules.**  
 South bound trains are superior to north bound trains of the same class. Passenger trains must not at any place exceed a speed of forty (40) miles per hour and freight trains twenty-five (25) miles per hour. All trains will reduce speed to ten (10) miles per hour while crossing Bridge No. 130, between Karamin and Pollard. Trains Nos. 391, 392, 393 and 394 will stop on flag at Karamin. Normal position of north wye switch at Curlew is for Republic-Curlew Line. All trains will come to full stop at crossing of Spokane & B. C. Ry. at Malo. Derailing switches at Belcher and Karamin.

**INITIAL STATIONS:**  
 Curlew for trains 392 and 394.  
 Republic for trains 391 and 393.

**TERMINAL STATIONS:**  
 Curlew for trains 391 and 393.  
 Republic for trains 392 and 394.

**Business Tracks Not Shown as Stations on Time Table.**

NAME	Miles from Curlew	Switch at	Car Capacity
Belcher.....	8.5	Siding	15
Karamin.....	8.6	South End	16
Karamin No. 2.....	8.6	North End	8
California.....	19.1	North End	6

**NORTH BOUND.**

**FIFTH DISTRICT—NORTHPORT TO ROSSLAND.**

**SOUTH BOUND.**

SECOND CLASS		Car Capacity of Sidings	Distance from Northport	Time Table No. 9 In Effect November 28, 1915		SIGNALS See Rule 3, page 11.	SECOND CLASS		
386	385			STATIONS	385		385		
Mixed	Mixed	Passing Tracks							
Daily Ex. Sunday	Daily Ex. Sunday	Other Tracks							
Lv 2:35Pm	Lv 11:00Am	73	79	NORTHPORT	NP	17.3	R@ D W C Y O	Ar 11:00Am	
2:38	10:57		0.6	0.6 RED MOUNTAIN JUNCTION		16.7		10:57	
f 3:08	f 10:33	10	7.0	6.4 VELVET		10.3		f 10:33	
s 3:18	s 10:30	24	8.4	1.4 PATERSON	KN	8.9	D	s 10:30	
Ar 4:10Pm	Lv 10:00Am	35	51	8.9 ROSSLAND	RO		R D W Y K	Lv 10:00Am	
Daily	Daily							Daily	
386	385							385	
1.35	1.00							1.00	
10.9	17.3							17.3	
				Time Over District Average Speed Per Hour					

**Special Rules.**  
 South bound trains are superior to north bound trains of the same class. Passenger trains must not at any place exceed a speed of twenty-five (25) miles per hour and freight trains fifteen (15) miles per hour. All trains must not exceed a speed of fifteen (15) miles per hour over Loop Bridge and around twenty-two degree curve just south of Loop Bridge, and from Velvet tank south to end of Sheep Creek canyon; and a speed of four (4) miles per hour over Bridge No. 1 over Columbia River. All south bound freight hour trains will come to full stop two hundred (200) feet north of Columbia River Bridge, and not exceed four (4) miles per hour over bridge. Normal position of junction switch at Red Mountain Junction is for Second District. No train will leave Paterson until conductor has reported to and received clearance from Customs Officer. All south bound trains must make service test of all brakes before leaving Rossland. All fifth district trains will protect against second district trains at all times between Northport depot and Red Mountain Jet. Water one mile south of Velvet. Yard limit boards each way from Northport and 1/2 mile south of Rossland.

**INITIAL STATIONS:**  
 Northport for train 386.  
 Rossland for train 385.

**TERMINAL STATIONS:**  
 Northport for train 385.  
 Rossland for train 386.

**Business Tracks Not Shown as Stations on Time Table.**

NAME	Miles from Northport	Switch at	Car Capacity
Stone.....	1.7	South End	7
Condon.....	4.8	South End	3
Poole.....	2.6	South End	3

**NORTH BOUND.**

**SIXTH DISTRICT—GRAND FORKS TO PHOENIX.**

**SOUTH BOUND.**

**Special Rules.**

**South bound trains are superior to north bound trains of the same class.**

Passenger trains must not at any place exceed a speed of twenty-five (25) miles per hour, and freight trains fifteen (15) miles per hour. All trains must not exceed a speed of fifteen (15) miles per hour over Bridge No. 66 and around rockbluffs above Weston. All trains crossing bridge on smelter spur over North Fork Kettle River, must reduce speed to fifteen (15) miles per hour.

The normal position of switch at Junction of Phoenix Line is for Smelter Line.

The normal position of all wye switches except south wye switch at Phoenix is for yard tracks.

The normal position of south wye switch at Phoenix is for main line to passenger depot.

The normal position of switch on switch-back at Tunnel No. 3 is for High Line.

Safety sidings are provided just south of Spencer and three quarters mile north of Deadman's bridge. Switches must be kept set and locked for safety tracks. All trains must come to full stop before reaching these tracks, sending a brakeman ahead to set switches for main track, and set switches for safety track before leaving.

No train must leave Phoenix or Grand Forks north bound until service test of air brakes have been made and brakes found in proper working order.

Conductors in charge of freight trains descending Phoenix hill must see that their brakemen are on top of trains at all times, to assist engineer in controlling trains; at least two stops of fifteen minutes each must be made to cool wheels, when conductor and brakemen must examine train carefully to discover cracked or broken wheels.

When freight trains ascending Phoenix hill are provided with two engines, the helper engine must be kept in the rear of all cars except the caboose.

Trains descending Phoenix hill must keep at least twenty-five (25) minutes apart.

All trains crossing bridge on smelter spur over North Fork Kettle River, must reduce speed to fifteen (15) miles per hour.

Derailing switches on passing tracks at Spencer, Hale, Denoro, Glenside, and on house track, ore loading track and Victoria Spur.

SECOND CLASS				Car Capacity		Distance from Grand Forks	STATIONS	Telegraph Calls	Distance from Phoenix	SIGNS See Rule 3, page 11.	SECOND CLASS			
390				Passing Tracks	Other Tracks						389			
Mixed											Mixed			
Daily Ex. Sunday											Daily Ex. Sunday			
		Lr	3.30pm	43	74		GRAND FORKS	GF	23.8	R@ D Y	Ar	10.20am		
			3.35	100	143	1.0	WESTON	WS	22.8	WC Y		10.15		
			3.42			1.6	COPPER JCT		22.2			10.12		
		f	4.02	40		6.6	SPENCER		17.2	W	f	9.58		
		f	4.27	46		13.9	HALE		9.9	W	f	9.33		
		f	4.32	19	18	15.5	DENORO		8.3	K	f	9.27		
		f	4.40	26		17.3	GLENSIDE		6.5	W	f	9.22		
		Ar	5.10pm		Yard	23.8	PHOENIX	FX		R@ D WC Y	Lv	9.00am		
			Daily Ex. Sunday									Daily Ex. Sunday		
			390									389		
			1.40									1.20		
			14.3				Time Over District					17.8		
							Average Speed Per Hour							

**INITIAL STATIONS.**  
Grand Forks for train 390.  
Phoenix for train 389.

**TERMINAL STATIONS.**  
Grand Forks for train 389.  
Phoenix for train 390.

**NORTH BOUND.**

**SEVENTH DISTRICT—OROVILLE TO PRINCETON.**

**SOUTH BOUND.**

SECOND CLASS				Capacity of Side Tracks	Distance from Oroville	Time Table No. 9 In Effect November 28, 1915				Telegraph Calls	Distance from Princeton	SIGNS See Rule 3, Page 11.	SECOND CLASS							
396						Passing Tracks	Other Tracks	STATIONS					397							
Mixed												Mixed								
Tues., Thur. and Saturday.												Tues., Thur. and Saturday.								
Lv	7.00am			70	256		.....	OROVILLE	H	91.1	R @ D W C Y						Ar	6.20pm		
s	7.45			52	22	11.3	.....	NIGHTHAWK	G	79.8	W						s	5.42		
s	8.15			51	40	21.2	.....	CHOPAKA	CA	69.9	D W						s	5.06		
f	9.00			52	12	30.8	.....	SIMILKAMEEN		60.3							f	4.21		
s	9.30			49	87	38.1	.....	KEREMEOS	K	53.0	D W						s	3.51		
f	9.55			16		45.1	.....	ASHNOLA		46.0							f	3.21		
f	10.15			11		51.4	.....	BRADSHAW		39.7	W						f	3.01		
s	10.30			29	13	55.8	.....	HEDLEY	HD	35.3	D						s	2.46		
f	10.45				11	61.0	.....	CORY		30.1							f	2.21		
f	11.05			28		67.7	.....	BROMLEY		23.8	W						f	2.06		
f	11.20			16		72.5	.....	NORMAN		18.6							f	1.52		
f	11.30			17		77.2	.....	ALLISON		13.9							f	1.37		
Ar	11.45am			52	31	79.7	.....	PRINCETON	QD	11.4	R D W Y K						Ar	1.30pm		
Tues., Thur. and Saturday.												Tues., Thur. and Saturday.								
<b>396</b>												<b>397</b>								
4.45												4.50								
16.7												10.6								
								Time Over District												
								Average Speed Per Hour												

**Special Rules**

**South bound trains are superior to north bound trains of the same class.**  
 Trains will not exceed speed of twenty-five (25) miles per hour between Oroville and Princeton and will keep sharp lookout for falling rocks at all points Healey to Princeton. Trains Nos. 396 and 397 will stop on flag at Rich Bar and Ruby Mine Spur. No train will leave Chopaka until conductor has reported to and received clearance from customs officer.  
 Two derrails on Cement Spur near Princeton.  
 Yard limit boards placed each way from Princeton.

**INITIAL STATIONS.**  
 Oroville for train 396.  
 Princeton for train 397.

**TERMINAL STATIONS.**  
 Oroville for train 397.  
 Princeton for train 396.

**Business Tracks not Shown as Stations on the Time Table.**

NAME	Miles from Oroville	Switch at	Car Capacity
Rich Bar Spur.....	5.7	South End	6
Ruby Mine Spur.....	17.1	North End	7
B. C. Portland Cement Spur.....	79.2	South End	Priv. Spur

**Location and Length of Tunnels.**

No.	Location	Length
7	4.95 miles north Oroville.....	1761 feet
8	.82 miles north Princeton.....	1062 feet

# AUTOMATIC BLOCK SIGNALS.

501. In all cases except as noted by special rules, the BLOCK Signals are located upon the Right of and adjoining the track upon which trains are governed by them. The Semaphore arms that govern are displayed to the right of the Signal mast as seen from an approaching train. The movement of trains will be regulated by the block Signal indications as follows:

- A. An arm in the horizontal position (See figure No. 1) indicates that the block is not clear and is a Signal to "STOP."
- B. An arm in an inclined position (45 degrees above the horizontal) (See figure No. 2) indicates "PROCEED" with caution prepared to stop at the next signal.
- C. An arm in the vertical position (90 degrees above the horizontal) (See figure No. 3) indicates that the block is "CLEAR" and is a Signal to "PROCEED."
- D. At night the position of the Signals will, in addition, be shown by the standard colored lights.  
RED indicates STOP.  
YELLOW indicates "CAUTION;" proceed with caution prepared to STOP at next Signal.  
GREEN indicates "PROCEED."

502. Block Signals control the use of the blocks, but unless otherwise provided, do not supersede the superiority of trains; nor dispense with the use or the observance of other Signals whenever and wherever they may be required.

503. Block Signals for a track apply only to trains running with the current of traffic on that track.

- A. Automatic Signals are designated by the number plate located on the mast below the arm. Intermediate automatic block signals located between passing tracks are equipped with one arm and one light. Home automatic block signals located at each passing track are in addition equipped with a Disc enclosing a red light six feet below the Semaphore arm. The Disc and red light are provided as a distinguishing marker for the home signals only. Trains passing Home Signals, automatically set to the "Stop Position" all Signals governing train movements in the opposite direction from the next passing track. See figures 4, 5 and 6.

B. Trains holding main track at meeting points must stand clear of passing track lead. Trains proceeding from side tracks, spurs, or other tracks to a main track, must remain clear of the bonded rails and insulated joints on such tracks, until the main line switch has been opened.

504. When a train is stopped by a block signal it may proceed when the signal is cleared. If not immediately cleared it may proceed—(See A, B and C):

- A. On single track, if the block signal is a Home Automatic Signal, at a speed not to exceed 6 miles per hour after obtaining authority from the Train Dispatcher, or preceded by a flagman to the next signal displaying a "Caution" or "Clear" indication expecting to find track impassable.
- B. On single track, if the block signal is an intermediate automatic signal, at once, at a speed not to exceed 6 miles per hour, except when proceeding under Rule 504-A, expecting to find track impassable.  
Or—
- C. On double track, at once, under control, expecting to find track impassable.
- D. A train stopped by a Block Signal must stand facing the signal so that its indication may be observed from the Engine. The forward wheels must not pass the signal.

505. Omitted.

506. When a train is stopped by a block signal from any cause. Engineman will report to Superintendent, preferably on Form 2600 and operator will transmit in accordance with instructions thereon.

507. Lights must be used upon all block signals from sunset to sunrise, and whenever the signal indications cannot be clearly seen without them. At such times if lights are not burning, or if a white light is shown where a colored light should be, trains must ascertain and be governed by the day signal indication before passing signal.

508. In making train movements through cross-over or other switches to or from a main track, one of the switches must be kept open until train movement is completed to insure signal protection.

The opening of any switch will set and hold signal of that block at stop until the switch is closed. The opening of any switch at either end of a double track cross-over will hold signals on both main tracks at stop.

If either end of a siding cross-over on single track is opened, it will set and hold the signals that control the block on main track to which it leads in both directions at stop. Neither switch nor cross-over must therefore be opened, until the movement of the train is to be made, and must be closed immediately after the movement has been made and the switches locked.

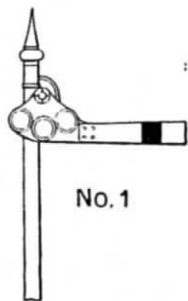
509. Switch Indicators (miniature semaphores) where used stand normally in "STOP" position. Trainmen or others using switches equipped with switch indicators must first push button on bottom of switch indicator case and if no train is approaching switch indicator will clear when switch may be used. The switch should be thrown at once after switch indicator clears.

510. When necessary to clean ash pan or cinders from the smoke arch inside of block signal limits care must be taken to avoid dumping live coals or hot cinders on the wooden trunking used to protect the signal track wiring.

511. Lights will not be provided on any main line switch located within 300 feet of an automatic signal governing the block in which the switch is located. Lights will not be provided on trailing point switches on double track.

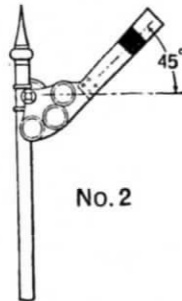
512. Cars on side track or other tracks connecting with main tracks must be kept clear of bonded rails and insulated joints as otherwise signals will be held in "STOP" position. All tracks connecting with main track are bonded to clearance point only.

513. Interlocking Signals located in districts equipped with Automatic Signals, become, unless otherwise stated under "Special Rules", a part of the automatic block signal system. All such Home Interlocking Signals are equipped with not less than two arms and two lights, see general instructions governing operation and maintenance of interlocking plants and figures Nos. 7, 8, 9, 10, 11 and 12.



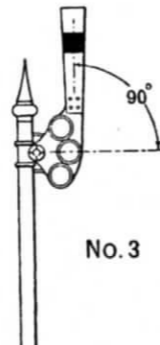
INTERMEDIATE  
AUTOMATIC BLOCK SIGNAL.

Color. RED light at night.  
Indication. STOP.  
Name. STOP Signal.



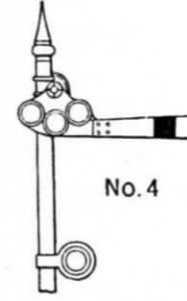
INTERMEDIATE  
AUTOMATIC BLOCK SIGNAL.

Color. YELLOW light at night.  
Indication. PROCEED with CAUTION,  
prepared to stop at next signal.  
Name. CAUTION Signal.



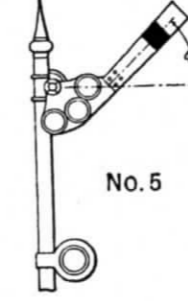
INTERMEDIATE  
AUTOMATIC BLOCK SIGNAL.

Color. GREEN light at night.  
Indication. PROCEED.  
Name. CLEAR Signal.



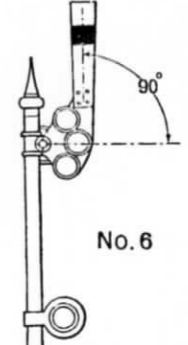
HOME  
AUTOMATIC BLOCK SIGNAL.

Color. Arm, RED light at night.  
Disc, RED light at night.  
Indication. STOP.  
Name. STOP Signal.



HOME  
AUTOMATIC BLOCK SIGNAL.

Color. Arm, YELLOW light at night.  
Disc, RED light at night.  
Indication. PROCEED with CAUTION,  
prepared to stop at next signal.  
Name. CAUTION Signal.



HOME  
AUTOMATIC BLOCK SIGNAL.

Color. Arm, GREEN light at night.  
Disc, RED light at night.  
Indication. PROCEED.  
Name. CLEAR Signal.



# INTERLOCKING SIGNALS.

## ENGINEMEN AND TRAINMEN.

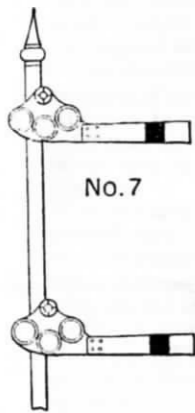
- 661. Trains or engine may be run to but not beyond a signal indicating "Stop," except as provided in Rule 663.
- 662. If a Clear or Caution signal, after being accepted, is changed to a "Stop" signal before it is reached, the stop must be made at once. Such occurrence must be reported to the Superintendent.
- 663. Enginemen and Trainmen must not proceed on hand signals as against interlocking signals until they are fully informed of the situation and know that they are protected, and then only when the prescribed hand signal is given as per Rules 620 and 620-A.
- 664. The Engineman of a train which has parted must sound the whistle signal for "train-parted" on approaching an interlocking plant.
- 665. An Engineman receiving a "train-parted" signal from a Signalman must answer by the whistle signal for "train-parted."

- 666. When a parted train has been re-coupled the Signalman must be notified.
- 667. Sand must not be used over movable parts, or ashes dumped within the limits of an interlocking plant.
- 668. Conductors must report to Superintendent any unusual detention at interlocking plants.
- 669. Trains or engines stopped by the Signalman in making a movement through an interlocking plant, must not move in either direction until they have received the proper signal from him.
- 620. If a signal fails to work properly its operation must be discontinued and until repaired the signal secured so as to display the normal indication. Under such circumstances Signalmen must be governed as per Rule 623 and in addition will require all trains to make a full stop before giving hand signal to proceed. Signalmen giving proceed hand signals must use a yellow flag by day and a yellow light by night.

620A. Signalmen giving hand signals must do so from the center of the track upon which the train movement is to be made. When more than one train is in sight hand signal must be given from a point not to exceed one hundred feet in advance of the locomotive.

623. If there is a derailment, or if a switch is run through, or if any damage occurs to the track or interlocking plant, or if any part of the interlocking apparatus fails to operate properly, the signals must be restored to the normal position, and no train or switch movement permitted until the track and interlocking parts liable to consequent injury or failure have been thoroughly examined and are known to be in safe condition.

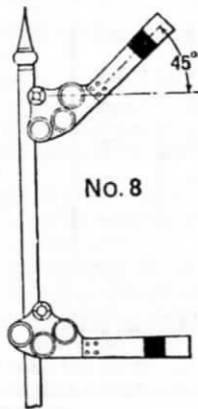
Note. A flag signal given by Signalman at an interlocking home signal in automatic signal districts is only authority to pass such signal and does not modify its indication as an automatic signal. See Rules 504 and 513.



No. 7

### INTERLOCKING HOME SIGNAL.

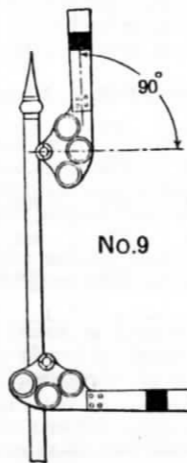
Color. Upper Arm, RED light at night.  
Lower Arm, RED light at night.  
Indication. STOP. Proceed only when signal clears or upon prescribed hand signal from Signalman.  
Name. STOP Signal.



No. 8

### INTERLOCKING HOME SIGNAL.

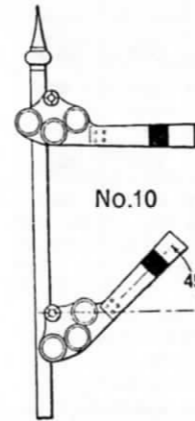
Color. Upper Arm, YELLOW light at night.  
Lower Arm, RED light at night.  
Indication. Main line route clear, proceed with CAUTION, prepared to stop at next signal.  
Name. CAUTION Signal.



No. 9

### INTERLOCKING HOME SIGNAL.

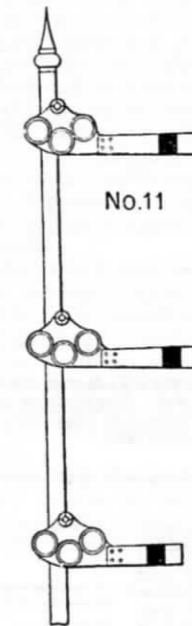
Color. Upper Arm, GREEN light at night.  
Lower Arm, RED light at night.  
Indication. Main line route clear, PROCEED.  
Name. CLEAR Signal.



No. 10

### INTERLOCKING HOME SIGNAL.

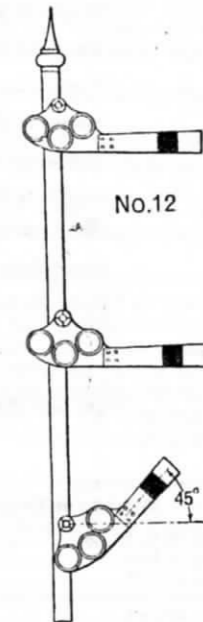
Color. Upper Arm, RED light at night.  
Lower Arm, YELLOW light at night.  
Indication. Diverging route clear, proceed with CAUTION.  
Name. CAUTION Signal.



No. 11

### INTERLOCKING HOME SIGNAL.

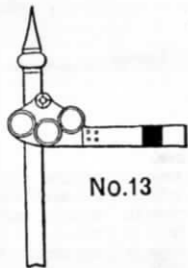
Color. Upper Arm, RED light at night.  
Middle Arm, RED light at night.  
Lower Arm, RED light at night.  
Indication. STOP. Proceed only when signal clears or upon prescribed hand signal from Signalman.  
Name. STOP Signal.



No. 12

### INTERLOCKING HOME SIGNAL.

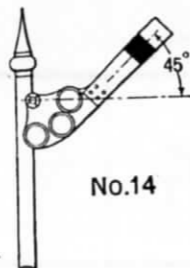
Color. Upper Arm, RED light at night.  
Middle Arm, RED light at night.  
Lower Arm, YELLOW light at night.  
Indication. Slow speed, Route clear, Proceed.  
Name. CAUTION Signal.



No. 13

### INTERLOCKING DISTANT SIGNAL.

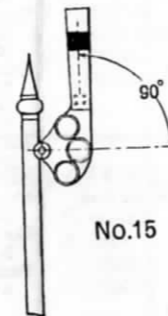
Color. RED light at night.  
Indication. STOP, then proceed with CAUTION, prepared to stop at Home Signal.  
Name. STOP Signal.



No. 14

### INTERLOCKING DISTANT SIGNAL.

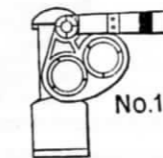
Color. YELLOW light at night.  
Indication. PROCEED with CAUTION, prepared to stop at Home Signal.  
Name. CAUTION Signal.



No. 15

### INTERLOCKING DISTANT SIGNAL.

Color. GREEN light at night.  
Indication. PROCEED.  
Name. CLEAR Signal.



No. 16

DWARF SIGNAL.  
Color. RED light at night.  
Indication. STOP.  
Name. STOP Signal.



No. 17

DWARF SIGNAL.  
Color. YELLOW light at night.  
Indication. PROCEED with CAUTION.  
Name. CAUTION Signal.

**CAPACITY OF ENGINES IN ADDITION TO WEIGHT OF ENGINES, TENDERS AND CABOSES.**

STATIONS.	Ruling Grade	Class F-8 1140-1253				Class G-2 700-719 Class G-3 720-769				Class D-5 454-471 Class F-1 500-565				Class F-4 1094			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Dean to Loon Lake.....	1.	1200	1100	1050	1000	950	900	850	800	700	650	600	550	....	....	....	....
Valley to Loon Lake.....	1.	1200	1100	1050	1000	950	900	850	800	700	650	600	550	....	....	....	....
Valley to Meyers-Falls.....	1.	1700	1600	1500	1400	1200	1150	1100	1050	1000	950	900	850	....	....	....	....
Meyers Falls to Valley.....	1.	1800	1600	1500	1400	1200	1150	1100	1050	1000	950	900	850	....	....	....	....
Marcus to Meyers Falls.....	2.	625	500	450	400	500	450	425	400	360	325	300	275	....	....	....	....
Marcus to Northport.....	1.	....	....	....	....	1000	950	900	875	750	700	675	650	....	....	....	....
Northport to Marcus.....	1.	....	....	....	....	1000	950	900	875	750	700	675	650	....	....	....	....
Northport to Waneta.....	1.	....	....	....	....	1000	950	900	875	750	700	675	650	....	....	....	....
Waneta to Apex.....	1.6	....	....	....	....	....	....	....	....	475	450	425	400	....	....	....	....
Troup Jct. to Apex.....	2.5	....	....	....	....	....	....	....	....	275	250	225	200	....	....	....	....
Northport to Roseland.....	3.5	....	....	....	....	....	....	....	....	160	150	140	130	185	175	165	155
Marcus to Midway.....	.6	1700	1600	1500	1400	1300	1200	1150	1100	1000	950	925	900	....	....	....	....
Midway to Molson.....	1.25	950	900	850	800	750	700	675	650	650	600	575	550	....	....	....	....
Oroville to Molson.....	2.5	500	450	400	350	425	400	375	350	275	250	225	200	....	....	....	....
Oroville to Coalmont.....	.8	1750	1650	1550	1450	1050	1000	950	900	900	850	800	775	....	....	....	....
Grand Forks to Phoenix.....	3.	....	....	....	....	300	270	250	240	220	200	180	160	....	....	....	....
Curlaw to Republic.....	1.5	....	....	....	....	675	650	625	600	525	500	475	450	....	....	....	....

**WEATHER RATING** (1—When temperature is 25 degrees above zero or over.  
2—Very frosty or wet. 5 to 25 above zero.  
3—Five degrees above to 10 below zero.  
4—10 below zero and colder.

Chief Train Dispatcher may increase or decrease above rating as it may be found necessary.

**Weights of Empty Freight Cars.**

Box Cars, 28 to 30 foot.....	11 Tons
Box Cars, 33 foot.....	12 Tons
Box Cars, 34 foot.....	13 Tons
Box Cars, 36 foot.....	15 Tons
Box Cars, 40 foot.....	17 Tons
Refrigerator Cars.....	20 Tons
Furniture Cars, 30 to 40 foot.....	17 Tons
Furniture, 40 to 50 foot.....	19 Tons
Caboose, 8-wheel.....	17 Tons
Caboose, 4-wheel.....	10 Tons
Flat Cars, 28 to 30 foot.....	9 Tons
Flat Cars, 33 and 34 foot.....	11 Tons
Flat Cars, 40 foot.....	12 Tons
Flat Cars, 40 foot.....	12 Tons
Coal Cars.....	12 Tons
Gondola Cars.....	13 Tons
Ore Cars, Wood.....	12 Tons
Ore Cars, Steel.....	15 Tons
Oil Tanks.....	15 Tons
Ballast Cars.....	12 Tons
Steam Wreckers.....	75 Tons

**Weights of Passenger Equipment.**

	Wooden	Steel Under-frame	Steel
Postal Cars,			
Nos. 1 to 21.....	....	....	67 Tons
Nos. 90 and 91.....	....	....	48 Tons
Nos. 50 to 69.....	54 Tons	....	....
Nos. 107 to 114.....	43 Tons	....	....
Baggage and Mail,			
Series 300 and 400.....	26 Tons	....	....
Series 500 and 600.....	45 Tons	....	....
Series 700.....	60 Tons	....	....
Series 800.....	....	60 Tons	....
Baggage and Express,			
Nos. 1000 to 1027.....	25 Tons	....	....
Nos. 1050 to 1089.....	50 Tons	....	....
Nos. 1100 to 1119.....	....	60 Tons	....
Nos. 1588 to 1702.....	55 Tons	....	....
Express Refrigerators,			
Nos. 1900 to 2097.....	Have weight	ts stenciled	on cars.
Passenger and Baggage,			
Nos. 2100 to 2201.....	25 Tons	....	....
Coaches,			
Nos. 3000 to 3241.....	27 Tons	....	....
Nos. 3250 to 3606.....	48 Tons	....	....
Nos. 3700 to 3724.....	....	52 Tons	....

**Weights of Passenger Equipment—Cont.**

	Wooden	Steel Under-frame	Steel
Coaches—Cont.			
Nos. 4000 to 4012.....	36 Tons	....	....
Nos. 4013 to 4060.....	41 Tons	....	....
Nos. 4100 to 4159.....	....	....	....
Nos. 4200 to 4317.....	51 Tons	....	....
Nos. 4500 to 4529.....	59 Tons	....	....
Tourist,			
Nos. 6520 to 6567.....	43 Tons	....	....
Nos. 6568 to 6611.....	52 Tons	....	....
Diners,			
Nos. 7010 to 7015.....	50 Tons	....	....
Nos. 7030 to 7041.....	58 Tons	....	....
Nos. 7100 to 7131.....	61 Tons	....	....
Parlor Cars,			
Nos. 7500 to 7571.....	45 Tons	....	....
Nos. 7572 to 7604.....	60 Tons	....	....
Sleepers,			
Nos. 8000 to 8456.....	....	....	70 Tons
Compartment-Observation,			
Nos. 9001 to 9035.....	63 Tons	....	....
Business Cars,			
Average Weight.....	40 Tons	....	....

**Weights of Dead Engines and Tanks.**

Engines numbered below 200 series.....	80 Tons
Engines numbered in 200 series.....	90 Tons
Engines numbered in 300 series.....	86 Tons
Engines numbered in 400 series.....	110 Tons
Engines numbered in 500 series.....	115 Tons
Engines numbered in 600 series.....	120 Tons
Engines numbered in 700 series.....	140 Tons
Engines numbered in 800 series.....	155 Tons
Engines numbered in 900 series (except 992 to 997).....	115 Tons
Engines numbered 992 to 997.....	95 Tons
Engines numbered 1000 to 1007.....	131 Tons
Engines numbered 1050 to 1069.....	144 Tons
Engines numbered 1079 to 1095.....	158 Tons
Engines numbered in 1100 and 1200 series.....	160 Tons
Engines numbered in 1300 series.....	160 Tons
Engines numbered 1400 to 1405.....	173 Tons
Engines numbered 1406 to 1425.....	188 Tons
Engines numbered in 1500 and 1600 series.....	179 Tons
Engines numbered in 1700 series.....	180 Tons
Engines numbered in 1800 series.....	219 Tons
Engines numbered in 1900 series.....	252 Tons
Engine Tank (Empty).....	30 Tons

**Speed Table.**  
50 miles per hour is equivalent to one mile in 1 minute and 12 seconds.  
45 miles per hour is equivalent to one mile in 1 minute and 20 seconds.  
40 miles per hour is equivalent to one mile in 1 minute and 30 seconds.  
35 miles per hour is equivalent to one mile in 1 minute and 43 seconds.  
30 miles per hour is equivalent to one mile in 2 minutes and 0 seconds.  
25 miles per hour is equivalent to one mile in 2 minutes and 24 seconds.  
20 miles per hour is equivalent to one mile in 3 minutes and 0 seconds.  
15 miles per hour is equivalent to one mile in 4 minutes and 0 seconds.

The following will govern when handling empty cars: With 10 or less empty cars in a train, no allowance will be made for wheel friction; with 10 to 20 empty cars in train, add to actual weight 5 tons for each empty car for wheel friction; with more than 20 empty cars in a train add 6 tons per car for wheel friction.

## SPECIAL RULES.

### South Bound Trains are superior to North Bound Trains of the same class.

1. Car capacity of sidings is based on forty-two (42) feet per car.
2. Trains displaying signals for following sections will stop at ALL registering stations, and the Conductors will register in person.

3. In addition to signs provided for in rule 7 the following signs in column headed "Signs" indicate:
  - D Day telegraph or telephone station.
  - N Night telegraph or telephone station.
  - DN Day and night telegraph or telephone station.
  - P Dispatcher's telephone accessible at all times.
  - I Interlocked.
  - K Connection with foreign road.
  - Standard clock.

## PERSONAL INJURIES.

1. Whenever passengers or employes are injured, everything must be done to care for them properly. If they are able to be moved, take them for treatment to the nearest place at which the Company has a surgeon. If they cannot be moved, call the nearest Company surgeon. If the case is urgent and the Company surgeon cannot be immediately procured, the conductor, agent or officer in charge is authorized to call the nearest surgeon available to administer first aid and care for the patient until the Company surgeon can take charge of the case.  
No surgical operation must be performed until the arrival of the Company surgeon unless it may be required for the immediate safety of the patient.
2. In cases of serious accidents to trains, conductors, after making everything safe, must give their undivided attention to the care and comfort of their passengers, especially to those who are injured. Bedding and linen may be taken from sleepers for this purpose, the conductor keeping careful account of all material so taken, and its return or safe keeping attended to; and, when necessary, injured persons may be put in the sleepers.  
When a number of persons are injured, the service of competent surgeons in the vicinity should at once be secured, and every possible effort made to care for the injured, the Division Surgeon being notified by wire to come immediately to the place of the accident.
3. When tramps, boys and other persons climbing on or jumping from moving trains, or persons walking or lying on the track, are injured or killed, they should be sent to their homes or placed in charge of the local county, city or village authorities, and no expense incurred on the part of the Company in the matter.
4. When people are killed away from a station the body should be picked up and taken to the nearest station and the authorities notified. Never take the body out of the county where the accident happened if it can be avoided, but if there is no station in that county, take it to the nearest station in the next county, notifying the county authorities in all cases.
5. A report of all accidents must be made, and immediately sent by wire to Superintendent, giving all information.

- In reporting accidents to trains carrying passengers, conductors should give the correct names of the injured and uninjured, the addresses and destinations of all persons on the train, and of the injured, and the extent of their injuries. This report must be sent from first telegraph office to the General Claim Agent and to the Assistant Claim Agent, in whose jurisdiction the accident occurs. As soon as possible thereafter Form 245 should be made out by each employe and forwarded to the Superintendent of the division; a separate report being made for each person injured.
6. Every effort must be made to procure the names and addresses of all persons, outsiders as well as employes who witnessed the accident, especially when persons are injured within the corporate limits of any city, town or village, or when crossing the tracks at a public highway.
  7. In every case of personal injury in any department, a full and complete report must be made at once by every employe immediately present, no matter whether he considers his statement of importance or not, answering every question as fully as possible.
  8. When persons are injured by an accident which may have been caused by defective appliances, tools or machinery, the car or appliance, tool or machinery must be immediately examined by the person in charge to ascertain its condition, and report made of the inspection, giving the numbers and initials of cars examined, with names, occupation and address of the persons making the inspection. This inspection must be made before the car or engine leaves the place where the accident occurred, and afterwards, at the first district terminal by the inspector, foreman or master mechanic at such point, the Superintendent to notify such person of the necessity of making such examination. When an accident is caused by the breaking of machinery, tools, appliances or rails, the broken parts must be so marked as to be readily identified, and immediately turned over to the Superintendent.
  9. This Company will not recognize any responsibility for board, medicine, nursing or surgical attention furnished by other than Company surgeons, except for the emergency service required under Rules 1 and 2, unless authorized by the Superintendent, General Claim Agent, or a general officer of the Company, and when so authorized the General Claim Agent should at once be notified.

## COMPANY SURGEONS.

Dr. J. A. Quinn, Chief Surgeon, Suite 301-2-3 Pittsburg Bldg., Cor. 5th and Wabasha Sts., St. Paul.  
Boeckman and Boeckman, Ophthalmic Surgeons, 642 Lowry Bldg., St. Paul.  
(Employees consulting should be provided with an order from the Superintendent.)

Spokane.....	Dr. J. G. Cunningham.
Spokane.....	Dr. S. B. Hopkins, Occulist.
Hillyard.....	Dr. J. Farrow.
Springdale.....	Dr. Richard Foster.
Colville.....	Dr. R. S. Wells.

Marcus.....	Dr. W. C. Goss.
Rossland.....	Dr. J. W. Coffin.
Nelson.....	Dr. W. O. Rose.
Republic.....	Dr. F. J. Whittaker.
Grand Forks.....	Dr. C. M. Kingston.
Oroville.....	Dr. E. E. Effner.
Princeton.....	Dr. T. C. Campbell.

## TIME INSPECTORS.

Spokane.....	Geo. H. Doerr.
Hillyard.....	L. R. Squibb.
Grand Forks.....	A. D. Morrison.
Marcus.....	L. S. Munger.

Rossland.....	T. G. Challoner.
Nelson.....	Patenaude Bros.
Oroville.....	E. A. McMahan.
Republic.....	C. M. Ayres.

**J. F. DOWNEY, Dispatcher.**  
**J. G. LUHRSEN, Dispatcher.**  
**D. W. DUNN, Dispatcher.**

**J. B. SMITH, Night Chief Dispatcher.**  
**F. A. MAXWELL, Chief Dispatcher.**  
**C. A. MANTHE, Train Master.**

# GREAT NORTHERN RAILWAY and Connections.

