

GREAT NORTHERN RAILWAY



CASCADE DIVISION



TIME TABLE No. 89.

TO TAKE EFFECT AT TWELVE-ONE (12:01) O'CLOCK
PACIFIC TIME

SUNDAY, NOVEMBER 7, 1915

THIS TIME TABLE IS FOR THE USE OF EMPLOYEES ONLY.

W. R. SMITH, 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.

2 WEST BOUND.

FIRST DISTRICT—LEAVENWORTH TO EVERETT JUNCTION.

THIRD CLASS		SECOND CLASS			Capacity of Side Tracks	Other Tracks	Distance from Leavenworth	STATIONS	Telegraph Code	FIRST CLASS					
731	715	411	401	727						3	285	1	43	27	297
N. P. 935 Freight Daily Ex. Sunday	Mdse. Freight Daily Ex. Sunday	Fast Freight Daily	Fast Freight Daily	N. P. 675 Freight Daily Ex. Sunday	Passenger	Passenger	Passenger	Passenger	Fast Mail	N. P. 441 Passenger Daily					
		Lr 2:20pm	Lr 8:00am		60	492	.....LEAVENWORTH.....	CH	Lv 2:30am		Lr 2:05pm	Lr 3:50pm	Lr 11:40pm		
		4 3:02	8:40		75	6.3	.....DRURY.....	DY	2:48		2:23	4:08	11:56		
		3:30	9:05		155	22	.....CHIWAUKUM.....	CY	2:59		2:36	f 4:20	12:05am		
		4:00	9:25		74	10	.....WINTON.....		3:06		2:43	f 4:28	12:11		
		4:20	9:45		71	4	.....NASON CREEK.....		3:14		2:55	f 4:37	12:19		
		402-43 4:45	10:00		145	5	.....MERRITT.....	CK	# 3:21		# 3:01	411-402 # 4:45	12:24		
		5:20	10:35		78		.....GAYNOR.....	GR	3:38		3:16	5:02	12:38		
		5:50	11:10		152	5	.....BERNE.....	BR	3:52		3:28	f 5:17	12:50		
		6:40	11:50		176	87	.....CASCADE TUNNEL.....	CN	# 4:10		# 3:45	# 5:37	# 1:05		
		7:10	12:10pm		85	263	.....TYE.....	WN	# 4:25		# 4:00	# 5:52	# 1:18		
		7:30	12:40		70	8	.....EMBRO.....	NY	4:37		4:10	f 6:03	1:29		
		7:45	405-4 1:15		75	10	.....COREA.....		4:46		4:18	6:12	1:39		
		8:10	1:40		75	22	.....SCENIC.....	MA	# 4:57		# 4:28	# 6:23	44 1:50		
		8:25	2:05		70	9	.....ALPINE.....	NI	5:07		4:37	f 6:34	2:00		
		8:40	2:25		75	15	.....TONGA.....	G	5:17		4:46	f 6:45	2:10		
		Lr 7:00am	9:00		63	230	.....SKYKOMISH.....	KY	# 5:30 5:35	Lv 8:50am	# 5:00 5:05	7:00 7:05	# 2:25 2:30	25	
		7:15	9:40	3:35	72	7	.....GROTTO.....		5:44		f 9:02	5:13	7:13	2:40	
		7:30	10:05	3:50	80	60	.....HALFORD.....	EA	5:55	# 9:15	5:22	7:23	2:50		
		402 8:00	10:25	4:08	71	21	.....INDEX.....	NX	6:06	# 9:28	5:31	# 7:35	3:01		
		8:25	10:40	4:22	78	17	.....REITER.....		6:16	f 9:40	5:40	7:46	3:10		
		9:00	10:50	5:10	85	330	.....GOLD BAR.....	GB	6:24	# 9:47	5:46	# 7:55	3:16		
		9:20			45	82.4	.....STARTUP.....	RU	6:28	f 9:53	5:50	# 8:01	3:21		
		285 10:03	11:10	5:25	70	33	.....SULTAN.....	SU	6:35	# 10:03	# 5:55	# 8:10	3:27		
		4 10:53	44 11:43	1-285 9:10	103	35	.....MONROE.....	RO	# 6:50	# 10:21	285-401 # 6:10	# 8:28	3:41		
		Lr 5:00pm	11:45	12:15am	74	116	.....SNOHOMISH.....	HO	# 7:05	# 10:38	# 6:25	# 8:52	3:55	Lr 4:45pm	
		Ar 5:20pm	12:15pm	25 12:40	70	63	.....LOWELL.....	W	7:15	# 10:48	6:35	9:02	4:05	Ar 4:55pm	
					45	174	.....PACIFIC AVENUE.....	D	7:18	f 10:53	6:38	9:05	4:08		
					8	108.7	.....EVERETT.....		# 7:30	# 10:57	# 6:48	# 9:13	# 4:17		
						109.5	.....EVERETT JUNCTION.....	JN	Ar 7:32am	Ar 11:00am	Ar 6:50pm	Ar 9:15pm	Ar 4:20am		
					75	637	Via N. P. Ry. .....DELTA.....	PG							
		Daily Ex. Sunday	Daily Ex. Sunday	Daily	Daily	Daily Ex. Sunday			Daily	Daily Ex. Sunday	Daily	Daily	Daily	Daily	Daily
		731	715	411	401	727			3	285	1	43	27	297	
		20 17.0	5.45 9.0	11.10 9.5	12.0 9.1	.21 17.0			5.02 21.7	2.10 24.3	4.45 23.0	5.25 20.2	4.40 23.4	.10 24.8	

Time Over District
Average Speed Per Hour

Read carefully Rules covering Operation Electric Train Staff Block, Pages 14 and 15.
Electric train staff block system between Everett Junction and Pacific Ave., and between Skykomish and Leavenworth.
All trains between Snohomish and Lowell to be handled by Block Card (Form 80).
West bound trains will be prepared to stop at Snohomish, and East bound trains will be prepared to stop at Lowell, and must not go by, or foul, cross-over until they have block card in their possession.

At Snohomish all Northern Pacific trains will enter and leave Great Northern main line through the cross-over.
At Lowell all east bound trains from Northern Pacific connection and first class west bound trains for Northern Pacific connection will run through cross over. All west bound second and inferior class trains for Northern Pacific connection will enter passing track at east switch.
Local freights between Skykomish and Delta will carry passengers when provided with proper transportation.

EAST BOUND.

FIRST DISTRICT—LEAVENWORTH TO EVERETT JUNCTION.

FIRST CLASS						Time Table No. 89. In Effect November 7, 1915.	SIGN	SECOND CLASS		THIRD CLASS
300 (N. P. 442)	44	2	286	4	28			402	730 (N. P. 676)	732 (N. P. 936)
Passenger	Passenger	Passenger	Passenger	Passenger	Express	STATIONS.	Distance from Delta	Fast Freight	Freight	Freight
Daily	Daily	Daily	Daily Ex. Sunday	Daily	Daily			Daily	Daily Ex. Monday	Daily Ex. Monday
Ars 4.20Am	Ars 1.40Am			Ars 3.20Pm	Ars 6.00Am	LEAVENWORTH	109.5	R@ DN WCTYOP	Ar 7.00Pm	
4.02	1.22			4.11 3.02	5.42	DRURY	103.2	DN P	6.20	
3.49	1.13			f 2.49	5.32	CHIWAUKUM	99.0	DN W P	6.00	
3.41	1.07			f 2.43	5.27	WINTON	96.5	DN P	5.55	
3.30	12.57			f 2.35	5.18	NASON CREEK	92.0	DN P	5.05	
3 3.21	12.50			f 2.29	5.12	MERRITT	89.0	DN W Y P	4.45	4.11-43
3.08	12.38			2.20	5.02	GAYNOR	84.6	DN P	4.20	
2.58	12.26			2.11	4.54	BERNE	81.5	DN W P	4.05	
* 2.45	* 12.14Am			* 2.00	* 4.42	CASCADE TUNNEL	77.2	DN W T P	3.45	1
* 2.27	* 11.57			* 1.43	* 4.25	TYE	73.6	DN WC P	2.20	
2.11	11.39			f 1.28	4.00	EMBRO	70.0	DN W P	1.48	
2.01	11.27			402-401 1.18	3.45	COREA	67.3	DN P	1.18	4-401
1.50	11.15			* 1.07	* 3.30	SCENIC	64.3	DN W P	12.25Pm	
1.34	10.59			11.25.1	3.10	ALPINE	61.2	DN W P	11.30	
1.22	10.47			12.38	2.50	TONGA	57.7	DN P	10.55	
1.05	10.29			12.20	2.38	SKYKOMISH	52.3	R@ DN WC Y P	10.10	
* 1.00	* 10.34	Ars 7.55Pm		* 12.15	* 2.28		48.4	P	9.02	283
12.51	10.15			f 7.40	12.04Pm	GROTTO	43.4	W P	8.30	5.0
12.40	10.05			* 7.23	11.54	HALFORD	38.3	DN P	8.00	5.1
12.27	9.53			* 7.10	* 11.42	INDEX	33.2	W P	7.30	5.1
12.15	9.41			f 6.54	11.25	REITER	29.5	DN Y P	7.05	5.1
12.08	9.33			* 6.44	11.18	GOLD BAR	27.1	P	6.20	3
12.04Am	9.29			* 6.37	11.14	STARTUP	23.7	D P	6.00	
11.58	9.23			* 6.30	* 11.09	SULTAN	16.2	DN W Y P	5.35	
* 11.43	* 9.07			* 6.10	* 10.53	MONROE	9.3	R DN P	5.10	Ar 1.35Am
Ar 1.10Pm	* 11.25			* 5.55	* 10.38	SNOHOMISH	3.5	R DN P	4.55	Ar 7.00Am
Lv 1.00Pm	11.13			* 5.37	10.26	LOWELL	1.9	DN P		Lv 1.15Am
	11.10			* 5.34	10.23	PACIFIC AVENUE	0.6	K P		Lv 6.40Am
	* 11.07			* 5.30	* 10.20	EVERETT	0.0	R DN P		
Lv 11.00Pm	Lv 8.30Pm	Lv 5.20Pm	Lv 10.15Am	Lv 12.30Am		EVERETT JCT.				
						Via N. P. Ry. DELTA		R@ DN WCTYOP	Lv 4.30Am	
Daily	Daily	Daily	Daily Ex. Sunday	Daily	Daily				Daily	Daily Ex. Monday
300	44	2	286	4	28				402	730
10 24.5	5.20 20.8	5.10 21.2	2.40 19.9	4.55 22.3	5.30 20.5	Time Over District Average Speed Per Hour			14.30 8.1	17.0 17.0

Special Rules.

West bound trains are superior to east bound trains of the same class. No. 27 is superior to all other trains. Opposing first class trains will clear No. 27 five (5) minutes. Other opposing trains will clear No. 27 ten (10) minutes.

All west bound trains must be clear at the time No. 27 is due to leave the next station in the rear where time is shown.

Freight trains will use N. P. tracks between Lowell and Delta and will be governed by N. P. time table and rules between these points.

Bulletin boards are located at Leavenworth, Cascade Tunnel, Skykomish, Gold Bar, Delta.

Passenger trains reduce speed to 25 miles per hour and freight trains to 15 miles per hour through City limits of Monroe. All trains will reduce speed to eight miles per hour through Martin Creek Tunnel and over bridges at either end. All trains will reduce speed to ten miles per hour over crossing just east of Pacific Avenue Freight House.

Trains must not exceed speed of 8 miles per hour over drawbridges and Interlocking Plants.

No. 43 stops at any station to let off passengers from points east of Shelby.

No. 44 stops at any station to pick up passengers for points east of Shelby.

Berlin and Baring and Haybrook Spur two miles east of Index will be flag stop for Nos. 285 and 286.

Additional to other required tests of the air brake, no train will leave Cascade Tunnel until the air brakes have been carefully tested. Engineer will set the brakes and leave them set until trainmen examine each car, then release them, and trainmen will again examine each car and see that brakes release before giving the signal to start the train. Conductors must inform engineer how many cars loaded and empty in the train, and how many cars of "air" are working.

All retainers must be used from Cascade Tunnel to Merritt, and from Chiwaukum to Leavenworth, and from Cascade Tunnel to Skykomish.

Trains are operated between a block post, 125 feet west of the east crossover switch Cascade Tunnel and the safety switch west end depot at Tye, by a train staff block system. No train or engine will be run in either direction between the limits mentioned unless train engineer and the engineman or helper engine each has in his possession a section of a staff which will be handed to them by operators and will be retained by them until entire train has cleared block, then sections of staff must be handed to operator. When no helper engine is used, or when any cars behind helper, conductor or brakeman located on rear of train must be in possession of one-half of the staff.

Only one train is permitted to enter or use the block at the same time.

All east bound trains will approach the east end of the concrete shed at Tye under absolute control and will not pass the fouling point of the passing track unless signalled to do so by the Tunnel conductor.

Semaphore located 1200 feet east of switch at Holmquist Spur half-mile east of Monroe.

Yard limit boards placed each way from Gold Bar, Skykomish, Cascade Tunnel and Leavenworth, and east from Pacific Avenue.

Yard limits extend between Pacific Avenue and Northern Pacific R. R. connection at N. P. Freight Depot.

INITIAL STATIONS.

Leavenworth for trains Nos. 1, 3, 27, 43, 401 and 411. Snohomish for Nos. 297, 727, 731.

Everett Jct. for trains Nos. 2, 4, 28, 44 and 286. Lowell for Nos. 300, 730, 732.

Skykomish for trains Nos. 285 and 715. Delta for train 402.

TERMINAL STATIONS.

Leavenworth for Nos. 2, 4, 28, 44 and 402.

Skykomish for train No. 286.

Everett Jct. for trains 1, 3, 27, 43 and 285.

Lowell for Nos. 297, 727, 731.

Snohomish for Nos. 300, 730, 732.

Delta, 401, 411 and 715.

DERAIL SWITCHES.

Derail switches must always be set for derail except when in actual use, whether there are any cars on the tracks or not.

Cascade Tunnel east passing track lead, 30 feet from main line.

Tye, west end Industry track.

Tye Safety Switch, 70 feet west of station, on main line.

Scenic Industry track.

Grotto, 150 feet east of west head block Industry track.

Index Industry track 120 feet from west head block.

Reiter, west end Industry track.

Monroe Mill Spur, 200 feet from head block.

Brewery Spur, Pacific Avenue, 210 feet from head block.

Frye-Bruhn Spur, 120 feet from Crossing Agnew Hardware Co. Spur.

Power House Spur, 105 feet from head block.

LAP SIDINGS.

Chiwaukum and Merritt.

Business tracks not shown as stations on time table.

NAME	LOCATION	OPENS	LENGTH	CAR CAPACITY
Power House Spur	2.0 Miles west of Leavenworth	East		6
Skykomish Mill Co.'s Spur	0.3 Miles west of Skykomish	East		20
Great Republic Mining Co., Berlin	1.5 Miles west of Skykomish	West		14
Grotto Lumber Co.	0.3 Miles east of Grotto	Both ends	1200 feet	25
G. N. Shingle Co.'s Siding	3.5 Miles west of Grotto	East		24
Baring	1.4 Miles east of Halford	Both ends	1275 feet	22
Haybrook Spur	2.0 Miles east of Index	West		5
Dysart Spur	1.5 Miles east of Index	East		2
Smith Lumber Co.	0.5 Miles east of Index	East		12
Soderbury Spur	0.7 Miles west of Index	West		10
Gold Bar Lbr. Co. Spur	0.5 Miles west of Gold Bar	East		26
Sultan Logging Company Connection	2.0 Miles west of Sultan	West		37
Holmquist Spur	0.5 Miles east of Monroe	East		4
Monroe Mill Spur	0.3 Miles east of Monroe	East		18
Monroe Gravel Pit	0.0 Miles west of Monroe	West		110
Wagner & Wilson Lbr. Co. Spur	2.0 Miles west of Monroe	West		25
Woodruff	0.9 Miles east of Pacific Ave.	Both ends		24
Summer Iron Works Spur	0.9 Miles east of Pacific Ave.	West		15

LOCATION OF TUNNELS.

Tunnel No. 13 13,873 feet long height 19.5, between Tye and Cascade Tunnel.

" " 13.1, 1,202 " " " 22, 1.12 miles east of Embro.

" " 14, 274.8 " " " 19.1, 1.18 miles west of Embro.

" " 15, 1,512 " " " 18.7, .66 miles east of Corea.

" " 16, 2,368.3 " " " 18.7, Everett, Wash.

Interlocking Plant at bridge 455 just east of Snohomish. No distant signals. Home signal are located 550 feet each way from draw span; derails are located 55 feet in advance of home signals.

SECOND DISTRICT—EVERETT JUNCTION TO SEATTLE.

WEST BOUND.

THIRD CLASS		SECOND CLASS		Capacity of Side Tracks	Distance from Everett Junction	Time Table No. 89 In Effect November 7, 1915	STATIONS	Telegraph Code	FIRST CLASS									
717	401	27	357						3	277	285	359	273	1	355	43		
Mdse. Freight	Fast Freight	Fast Mail	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger			
Daily Ex. Sunday	Daily	Daily	Daily	Daily	Daily	Daily Ex. Sunday	Daily Ex. Sunday	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily			
Lv 1:00pm	Lv 2:30pm	Lv 4:20pm	Lv 7:00pm				EVERETT JUNCTION.....	JN	Lv 4:20pm	Lv 7:00pm	Lv 7:32am	Lv 9:35am	Lv 11:00am	Lv 2:10pm	Lv 3:58pm	Lv 6:50pm	Lv 8:20pm	Lv 9:15pm
1:20	2:45	4:27	7:08	110	3.8		MUKILTEO.....	MU	4:27	7:08	7:39	9:43	11:08	2:16	5:45	6:57	8:27	9:21
1:35	2:55	4:35	7:16		7.9		MOSHER.....		4:35	7:16	7:46	9:50	11:16	2:22	5:53	7:04	8:33	9:28
1:50	3:05	4:42	7:23	6	10.9		MEADOWDALE.....	AD	4:42	7:23	7:52	9:56	11:22	2:27	6:00	7:10	8:38	9:33
2:20	3:25	4:51	7:32	104	14.8		EDMONDS.....	DR	4:51	7:32	7:59	10:05	11:29	2:33	6:10	7:17	8:45	9:40
3:20	3:35	4:59	7:39	87	17.8		RICHMOND BEACH.....	R	4:59	7:39	8:05	10:12	11:36	2:38	6:18	7:23	8:51	9:45
4:05	4:15	5:15	7:55	194	26.9		BALLARD.....	BD	5:15	7:55	8:21	10:31	11:53	2:53	6:37	7:39	9:08	10:00
Ar 4:20pm	Ar 4:30pm	5:20	8:00	205	33.0		INTERBAY.....	RB	5:20	8:00	8:25	10:39	11:58	2:57	6:42	7:44	9:12	10:04
				285	29.3		G. N. DOCK.....	Z										
				843	32.7		SEATTLE.....	UD	5:45pm	8:15pm	8:45am	10:55am	12:15pm	3:15pm	7:00pm	8:00pm	9:30pm	10:20pm
							SEATTLE.....		6:00am	11:15am				3:45pm		8:35pm	10:45pm	
		Ar 7:05am	12:35pm	183	72.9		TACOMA.....		7:05am	12:35pm			5:00pm		10:00pm	12:01am		
			5:55pm				PORTLAND.....			5:55pm			10:00pm			6:00am		
Daily Ex. Sunday	Daily	Daily	Daily						Daily	Daily	Daily	Daily Ex. Sunday	Daily Ex. Sunday	Daily	Daily	Daily	Daily	Daily
717	401	27	357						27	357	3	277	285	359	273	1	355	43
3.20	2.90	1.25	1.15						1.25	1.15	1.13	1.30	1.15	1.05	1.25	1.10	1.10	1.05
8.4	14.0	23.0	26.1						23.0	26.1	26.9	21.8	26.1	30.2	23.0	28.2	28.2	30.2

Special Rules.

West bound trains are superior to east bound trains of the same class.

No. 27 is superior to all other trains. Opposing first class trains will clear No. 27 five (5) minutes. Other opposing trains will clear No. 27 ten (10) minutes. All west bound trains must be clear at the time No. 27 is due to leave the next station in the rear where time is shown. Double track between Everett Jct. and Seattle.

No. 3 meets No. 359.
No. 357 meets No. 359.
No. 717 meets Nos. 285 and 270.
No. 273 meets Nos. 278 and 358.
No. 277 meets Nos. 4 and 718.
No. 43 meets No. 44.
No. 285 meets Nos. 270 and 718.

No. 4 passes No. 718.

No. 359 passes No. 717.

Nos. 1 and 355 meet No. 2 on double track between Everett Junction and Seattle.

Bulletin boards are located at Interbay and Seattle.

All trains will reduce speed to 8 miles per hour passing through town limits of Edmonds.

Ballard, Edmonds and Mukilteo are flag stops for No. 4 to take passengers for Spokane or points east of Spokane.

Mile post 10 south of Richmond Beach will be flag stop for 277 and 278.

Trains 1 and 2 will stop at stations between Tacoma and Seattle to pick up or let off passengers for or from points east of Seattle complying with N. P. time table schedule.

Ballard will be flag stop for No. 2 to take passengers for Spokane or points east of Spokane.

No. 43 will stop at any station to let off passengers from points east of Shelby.

No. 44 will stop at any station to pick up passengers for points east of Shelby.

All Great Northern Trains between Seattle and Vancouver, Wash., will be governed by time table and rules of Northern Pacific Railway.

All Great Northern trains between Vancouver, Wash., and Portland will be governed by time table and rules of Spokane, Portland & Seattle Railway.

Yard limit boards east of Ballard cover limits to Seattle.

INITIAL STATIONS.

Seattle for trains Nos. 360, 4, 270, 358, 286, 278, 2, 44, 28, 356.

Interbay for trains Nos. 718, 402.

Everett Jct. for trains Nos. 27, 357, 3, 285, 277, 273, 359, 1, 355, 45, 401, 717.

TERMINAL STATIONS.

Interbay for trains Nos. 401 and 717.

Seattle for trains Nos. 27, 357, 3, 285, 277, 359, 273, 1, 355, 43.

Everett Jct. for trains Nos. 360, 4, 270, 358, 286, 278, 2, 44, 28, 356, 402, 718.

DERAIL SWITCHES.

Mukilteo Lumber Co. Spur, 144 feet from head block.
Richmond Beach, 120 feet west of H. B. Industry track.
INTERLOCKING Plant Baskule drawbridge 500 feet west of Ballard.
Distant signals are located 4000 feet east and west of draw span and work from zero to 45°.
Home signals are located 600 feet east and west of draw span and have two arms. Top arm works from zero to 90°. Lower arm fixed denoting home signal.
Derails are located 55 feet inside home signals.

INTERLOCKING governing Northern Pacific crossing just west of Interbay.
West bound Home Signal is suspended from Wheeler Street Bridge 230 feet east of crossing.
East bound Home Signal is located 300 feet west of crossing.
Home Signals are three positions upper quadrant type.
East bound derail is located 35 feet in advance of Home Signal.
West bound derail is located 230 feet East of crossing.
East bound Distant Signal is located 3000 feet from east bound Home Signal and works zero to 45 degrees.
West bound Distant Signal is located 1500 feet east of Home Signal and works zero to 45 degrees.
Back up Dwarf Signal on Great Northern yard tracks are located 125 feet from crossing East and West.
Derails on Northern Pacific tracks are located 200 feet from crossing with Dwarf Signal 5 feet from them.
Printed instructions posted in cabin for the operation of this plant. Cabin is locked by a Great Northern switch lock and Northern Pacific switch lock.

Business Tracks Not Shown as Stations on Time Table.

NAME	LOCATION	OPENS	LENGTH	CAR CAPACITY
Mukilteo Lumber Co.....	2.1 miles east of Mukilteo.....	West	.....	10
Wasser-Mowatt Lumber Co. Spur.....	1 mile east of Meadowdale.....	East	.....	3
Brown Bay Logging Co. Connection.....	0.5 miles west of Meadowdale.....	West	.....	.....
Invincible Railjoint Spur.....	0.4 miles west of Edmonds.....	West	.....	8
Shippard Spur.....	1.5 miles west of Edmonds.....	West	1200	24
Standard Oil Co. Spur.....	1.0 east of Richmond Beach.....	West	2185	46
G. N. Clay Co. Spur.....	4.2 miles west of Richmond Beach.....	West	.....	10
Metum Spur.....	1.6 miles east of Ballard.....	West	.....	43

LOCATION OF TUNNELS.

Tunnel No. 17, 5,141.5 feet long, height 22 feet, Seattle, Wash.

FIRST CLASS										Time Table No. 89 In Effect November 7, 1915	Distance from Seattle	SIGNALS See Rule 5, Page 18.	SECOND CLASS			THIRD CLASS	
356	28	44	2	278	358	286	270	4	360				402			718	
Passenger	Express	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger				Fast Freight			Mdse. Freight	
Daily	Daily	Daily	Daily	Daily Ex. Sunday	Daily	Daily Ex. Sunday	Daily	Daily	Daily	Daily			Daily Ex. Sunday				
Ar 1.05Am	Ar 12.30Am	Ar 11.00Pm	Ar 8.30Pm	Ar 6.47Pm	Ar 5.35Pm	Ar 5.20Pm	Ar 1.18Pm	Ar 10.15Am	Ar 9.16Am	.....EVERETT JUNCTION.....	32.7	R DN P	Ar 12.10Am		Ar 11.25Am	
*12.55	12.23	10.54	8.23	* 6.40	5.28	f 5.11	* 1.10	10.08	* 9.08	3.8.....MUKILTEO.....	28.9	D P	11.55		11.10		
f12.45	12.16	10.47	8.16	f 6.31	5.22	f 5.01	1.01	10.02	f 8.59	4.1.....MOSHER.....	24.8		11.40		10.32		
f12.37	12.11	10.42	8.11	f 6.24	5.17	f 4.55	f12.55	9.57	f 8.51	3.0.....MEADOWDALE.....	21.8	D P	11.30		10.10		
*12.29	12.04Am	10.36	8.05	* 6.16	5.11	* 4.47	*12.47	9.51	* 8.43	2.9.....EDMONDS.....	17.9	D W P	11.20		9.50		
f12.20	11.58	10.31	8.00	* 6.09	5.04	* 4.38	*12.37	9.39	* 8.33	3.0.....RICHMOND BEACH.....	14.9	D P	11.05		9.10		
*12.03Am	11.44	10.18	7.47	* 5.50	4.52	f 4.19	12.21	9.27	* 8.17	7.8.....BALLARD.....	5.8	D	10.35		8.40		
*11.59	11.40	10.14	7.44	* 5.45	4.49	f 4.15	12.18	9.24	* 8.14	1.7.....INTERBAY.....	4.7	R@ DNWCTO PK	Lr 10.30Pm		Lr 8.30Am		
										1.3.....G. N. DOCK.....	3.4						
11.45Pm	11.25Pm	Lv 10.00Pm	7.30Pm	Lv 5.30Pm	4.35Pm	Lv 4.00Pm	Lv 12.05Pm	Lv 9.15Am	8.00Am	3.4.....SEATTLE.....	.0	R DN IPK					
*11.15	*10.55Pm		* 7.10Pm		* 4.15Pm				* 7.30Am	183.1							
10.00	Lv 9.45Pm		Lv 5.45Pm		3.00				6.05	40.7.....TACOMA.....	142.4						
* 9.55					2.55Pm				6.00	142.4.....PORTLAND.....	.0						
Lv 5.00Pm					Lv 10.00Am				Lv 12.30Am								
Daily	Daily	Daily	Daily	Daily Ex. Sunday	Daily	Daily Ex. Sunday	Daily	Daily	Daily				Daily		Daily Ex. Sunday		
356	28	44	2	278	358	286	270	4	360				402		718		
1.20 24.6	1.05 30.1	1.00 32.7	1.00 32.7	1.17 25.4	1.00 32.7	1.20 24.6	1.13 26.9	1.00 32.7	1.16 25.7	Time Over District Average Speed Per Hour			1.40 16.8		2.55 9.7		

Automatic Block System.

Automatic Block Signals are in operation between King Street Station, Seattle, and Everett Jet.
Trains must not exceed a speed of 8 miles per hour over drawbridges and interlocking plants.
Three position train order signals Everett Jet. When at 45° indicates 19 order.
Trains will not exceed speed of ten (10) miles per hour through Seattle Tunnel.

Interlocking Signals.

Within the limits of the Automatic Block Signal System Interlocking Plants are located as follows:
SOUTH PORTAL OF SEATTLE TUNNEL.
NORTH PORTAL OF SEATTLE TUNNEL.
EVERETT JUNCTION.

Automatic Block Interlocking Signals and Semaphores

West Bound.

Everett Junction interlocking, westbound home signal (high line), is located 200 feet from westbound crossover switch, and has three arms; the top arm is for main line trains through crossover; the second arm fixed; bottom arm for diverging movements.
Westbound Home Signal, Coast line, is located fifty-five feet from east end of eastbound crossover switch and has three arms; top arm is for main line; second arm fixed; bottom arm crossover movements.
Distant signals, westbound high line, are located 3500 feet from home signal, and work from zero to 45°.
First automatic signal westbound is 2500 feet west of Everett Junction. From first automatic signal to Seattle, they are located about 7500 feet apart.

East Bound.

First automatic signal eastbound is located 3000 feet from eastbound home signal, North Portal; second 3000 feet from first one.
From Ballard and Everett Junction, signals are about 7500 feet apart, to Home signal for interlocking plant at Everett Junction.
Eastbound home signal, Everett Junction Interlocking is located 200 feet from west end of eastbound crossover switch, and has two arms; top arm is for main line to St. Paul, lower arm for crossover up the Coast line.

For Further Instructions and Diagrams see page 16 and 17.

THIRD DISTRICT—EVERETT JUNCTION TO BELLINGHAM.

SOUTH BOUND.

THIRD CLASS			SECOND CLASS			Capacity of Side Tracks	Distance from Bellingham	Time Table No. 89 In Effect November 7, 1915		FIRST CLASS						
717	713		711	729	401			Time	Stations	357	277	359	299	273	355	
Mds. Freight Daily Ex. Sunday	Mds. Freight Daily Ex. Sunday		Fast Freight Daily	N. P. 676 Freight Daily Ex. Sunday	Fast Freight Daily	Passing Tracks	Other Tracks	Passenger	Passenger	Passenger	N. P. 442 Passenger Daily	Passenger Daily	Passenger Daily			
			Lv 5.30pm			119	110	0.0	BELLINGHAM	HM	Lv 3.20am	Lv 6.50am	Lv 12.05pm		Lv 2.48pm	Lv 6.07pm
			6.00			40	143	2.9	SOUTH BELLINGHAM	FN	* 3.33	* 7.03	* 12.15		* 3.03	* 6.21
			6.28			51	16	8.9	SOCKEYE		f 3.50	f 7.12	12.25		f 3.13	7.11 6.28
			6.50			64	8	12.5	SAMISH		f 4.05	f 7.22	12.36		f 3.23	6.36
			7.09				8	13.2	BLANCHARD			f 7.25			* 3.28	
			7.30			62	16	16.6	BOW	BO	* 4.15	* 7.32	12.42		* 3.35	6.42
			8.47			63	239	23.8	BELLEVILLE	BV	f 4.25	* 7.40	12.48		* 3.45	6.48
			9.05			37	63	27.9	BURLINGTON	BU	* 4.43	* 7.52	* 12.55		* 3.55	* 6.55
			9.25			61	13	33.3	MT. VERNON	NR	* 5.00	* 8.03	* 1.06		* 4.05	* 7.07
						6		35.0	FIR	FR	* 5.15	* 8.14	1.16		* 4.16	7.17
									MILLTOWN			* 8.18			* 4.19	
						61	48	40.4	STANWOOD	B	* 5.35	* 8.30	1.25		* 4.29	7.28
						70	13	45.9	SILVANA	NA	* 5.50	* 8.44	1.33		* 4.40	7.37
						62	17	50.0	ENGLISH		f 6.02	f 8.55	1.40		f 4.50	7.45
						60	86	57.0	KRUSE	K	6.09	f 9.02	1.45	Lv 12.30pm	4.55	7.50
									MARYSVILLE	MS	* 6.21	* 9.10	1.50	12.37	* 5.06	7.55
									DELTA WYE	WY	6.30	* 9.18	1.56	Ar 12.44pm	5.12	8.01
									LONG SIDING		6.35	9.22	1.59		5.16	8.04
						110	180	63.3	EVERETT		* 6.55	* 9.30	* 2.08		5.25 5.32	* 8.15
						64	1	64.1	EVERETT JUNCTION	JN	Ar 7.00am	Ar 9.35am	Ar 2.10pm		Ar 5.35pm	Ar 8.20pm
											Daily	Daily Ex. Sunday	Daily	Daily	Daily	Daily
											357	277	359	299	273	355
											3.40 17.3	2.45 23.1	2.05 30.8	.14 27.0	2.47 23.0	2.13 28.9

Special Rules.

South bound trains are superior to north bound trains of the same class. Read carefully rules covering operation Electric train staff block, pages 14 and 15.

Electric train staff block system between Delta Wye and Marysville. Automatic Block Signals in operation between Everett Jct. and Delta Wye and between Marysville and South Bellingham.

Semaphore located 1200 feet south of south switch South Bellingham. Yard limit extends from yard limit board north of roundhouse Bellingham to yard limit board south of South Bellingham.

Yard limit boards placed each direction Burlington. Everett yard limits includes Delta yard and from North end of Draw Bridge 11 to yard limit board south of Everett Junction.

Steam whistle signals for tracks with switches controlled from Delta Wye Interlocking Tower.

Main Line—One Long.
Delta Yard from North—One Long, One Short.
Delta Yard from South—Two Long, One Short.
Delta Yard North—Two Long.

Delta Yard South—Three Long, One Short.
North bound from Northern Pacific connection, One Long, One Short, One Long.

South bound for Northern Pacific connection, Two Long, One Short, One Long.

INTERLOCKING SYSTEM.—Governing movement of trains N. P. crossing and Bridge 10 just north of Delta Wye.

All south bound trains from Vancouver will be governed by a two arm home signal located 700 feet north of draw span. Top arm at 90 degrees up proceed

to two arm home signal located 20 feet north of N. P. crossing, top arm at 90 degrees up proceed to Bayside, lower arm 90 degrees up proceed to Delta yard. A caution fixed signal is located 2500 feet north of two arm home signal.

Train movements from Bayside to Vancouver will be governed by top arm on two arm home signal located 60 feet south of wye switch and by two arm home signal located on trestle 500 feet south of draw span.

Train movements from Delta to Vancouver will be governed by top arm on two arm home signal located 60 feet east of wye switch, and by two arm home signal located on trestle 500 feet south of draw span.

Trains between Delta and Bayside will be governed by bottom blade on two blade semaphore located 60 feet east of wye switch.

Trains north bound from Northern Pacific connection to Great Northern main line governed by lower arm on Home Signal on Northern Pacific track. Top arm on advanced Home Signal 500 feet south of draw span.

South bound trains for Northern Pacific connection to be governed by lower arm on Home Signal 700 feet North of draw span.

Staff crane for trains from Northern Pacific connection North bound is located on Northern Pacific track on trestle.

Interlocking system in use bridge 10, 11 and 12 between Delta and Marysville and at Skagit R. R. Crossing one mile south of Fir.

Interlocker at Drawbridge No. 36 one mile north of Mt. Vernon. Derails are located 500 ft. from end of draw span. Distant signals are located 2,000 ft. from home signals.

Interlocking Plant at crossing of Pacific Northwest Traction Company just north of Burlington. Home signals are located 208 feet north and south of crossing. Derails are located 58 feet inside of home signals. No distant signals in connection with this Interlocking Plant.

At Kruse all Northern Pacific trains will enter and leave Great Northern track through cross-over.

First class south bound trains will register by card at Delta Wye. Except when running in sections conductors will register in person. On all other trains conductor will register at Delta Wye.

Register for Delta Wye is located on ground floor interlocking plant.

Bulletin boards are located at Burlington and Bellingham.

All trains will reduce speed to 8 miles per hour over all draw bridges and Interlocking Plants.

All trains will reduce speed to 8 miles per hour passing through town limits of Marysville, Mount Vernon and Burlington.

Trains will not exceed six (6) miles per hour on coast line track over 24th St. near Everett Flour Mill; California St., Hewitt Ave. and Bond St. north and south of passenger depot, City of Everett.

Norman, one mile north of Silvana is flag stop for Nos. 277 and 278.

Normal position of gates at crossing of third and fourth districts at Burlington will be against fourth district trains. Not necessary to stop for crossing when gates are set against opposing district.

South switch Everett passing track is located 300 feet north of station platform.

Track lying to the north of crossover between roundhouse and depot Bellingham will be known as passing track.

Side clearance Tunnel 20, one-quarter mile south of Sockeye, not good. Clearance four feet, standard six feet.

NORTH BOUND.

THIRD DISTRICT—EVERETT JUNCTION TO BELLINGHAM.

Time Table No. 89
In Effect November 7, 1915

FIRST CLASS						STATIONS	Distance from Everett Junction	SIGNS	SECOND CLASS			THIRD CLASS	
278	298	358	270	360	356				728	712	402	714	718
Passenger	N. P. 441 Passenger	Passenger	Passenger	Passenger	Passenger				N. P. 675 Freight	Fast Freight	Fast Freight	Mdse. Freight	Mdse. Freight
Daily Ex. Sunday	Daily	Daily	Daily	Daily	Daily			Daily Ex. Sunday	Daily	Daily	Daily Ex. Sunday	Daily Ex. Sunday	
Ar 9:45pm		Ar 7:50pm	Ar 4:00pm	Ar 12:30pm	Ar 4:10am	BELLINGHAM	64.1	R* DN CWT KP		Ar 8:35am			
9:29	7:32	3:40	12:15pm	4:00		SOUTH BELLINGHAM	61.2	D OW P		8:20			
f 9:20	7:24	3:33	11:59	3:57		SOCKEYE	57.2	P		8:05			
f 9:10	7:15	3:23	11:43	3:30		SAMISH	51.6	W P		7:50			
f 9:08			11:40			BLANCHARD	50.9	P					
9:02	7:09	3:13	11:32	3:20		BOW	47.5	D P		7:32			
8:53	7:00	3:07	11:22	3:10		BELLEVILLE	42.9	P		7:10			
711 8:47	355 6:55	3:02	11:15	3:00		BURLINGTON	40.3	R DNCWYX P		7:00	713 Ar 11:30am		
8:35	6:42	2:47	10:58	2:45		MT. VERNON	36.2	DN P		6:10	360 10:58		
8:20	6:33	2:35	10:41	2:30		FIR	30.8	D P		5:55	10:20		
8:15		f 2:31	10:35			MILLTOWN	29.1						
8:05	6:23	2:22	10:26	2:15		STANWOOD	23.7	DN P		307 5:35	9:40		
7:55	6:14	2:10	10:12	2:00		SILVANA	18.2	D W P		5:10	377 8:44		
355 f 7:45	6:07	2:02	10:01	f 1:49		ENGLISH	14.1	P		4:50	8:10		
f 7:32	Ar 5:26pm	6:01	1:55	9:53	1:40	KRUSE	10.5	R DN P	Ar 2:15am	4:30	7:55		
7:25	5:19	5:56	359 1:50	9:48	1:34	MARYSVILLE	7.1	DN P	2:03	4:15	7:40		
7:10	373 Lv 5:12pm	5:50	1:38	9:38	1:23	DELTA WYE	4.4	R DN IV P	Lv 1:50am	Lv 4:00am	Ar 12:40am	Lv 7:00am	
7:07		5:47	1:35	9:35	1:20	LONG SIDING	3.4				12:25	11:40	
7:00		5:42	1:30	9:30	1:15	EVERETT	0.8	P			12:15	11:30	
Lv 6:47pm	Lv 5:35pm	Lv 1:18pm	Lv 9:16pm	Lv 1:05am		EVERETT JUNCTION	0.0	R DN P		Lv 12:10am		Lv 11:25am	
Daily Ex. Sunday	Daily	Daily	Daily	Daily	Daily				Daily Ex. Sunday	Daily	Daily Ex. Sunday	Daily Ex. Sunday	
278	298	358	270	360	356				728	712	402	714	718
2:55	14	2:15	2:42	3:14	3:05	Time Over District Average Speed Per Hour			25	4:35	30	4:30	0:25
21.8	27.0	25.5	23.7	19.9	21.0				15.0	14.1	9.0	8.0	10.6

INITIAL STATIONS.
Blaine for trains Nos. 711 and 720.
Burlington for train No. 713.
Delta Wye, for trains Nos. 298, 728, 712, 714, 717, 401.
Everett Jet., for trains Nos. 270, 358, 360, 356, 278, 718 and 402.
Fraser River Jet., for trains Nos. 386 and 398.
New Westminster, for train No. 385.
Vancouver, for trains Nos. 359, 355, 273, 357, 397 and 719.
Bellingham, for train No. 277.
Kruse, for trains 299, 729.

TERMINAL STATIONS.
Blaine for trains Nos. 712 and 719.
Burlington, for train No. 714.
Delta Wye, for trains Nos. 299, 729, 711, 713, 718, 402.
Everett Jet., for trains Nos. 359, 355, 273, 357, 277, 401 and 717.
Fraser River Jet., for trains Nos. 385 and 397.
New Westminster, for train No. 389.
Vancouver, for trains Nos. 270, 356, 358, 360, 398 and 720.
Bellingham, for train No. 278.
Kruse, for trains Nos. 298, 728.

DERAIL SWITCHES.
Skagit Crossing, English Log Spur, Hayes Derail;
Mt. Vernon Pacific N. W. Traction Co. Transfer.
Sockeye, east end siding.
Bellingham, B. & N. Transfer Track east end.

Business tracks not shown as stations on time table.

Business tracks not shown as stations on time table.

NAME	LOCATION	OPENS	LENGTH	CAR CAPACITY
Chuckanut Quarry Spur	1.0 Miles north of Sockeye	North		38
Chuckanut Cannery Spur	0.7 Miles north of Sockeye	North		3
Blanchard Spur	0.5 Miles south of Samish	North		30
Sound Shingle Co.'s Spur	2.9 Miles north of Belleville	South		6
Bellville Pt.	1.5 Miles north of Belleville	North		80
Everett Pulp and Paper Co., Spur	1.7 Miles north of Mt. Vernon	South		5
Skagit Crossing Tr. Track	0.9 Miles south of Fir	South		6
Hawley Spur	1.3 Miles south of Fir	North		6
Morrison Mill Spur	2.1 Miles south of Fir	South		8
Ketchum Spur	2.5 Miles north of Stanwood	South		4
Pacific Coast Condensed Milk Company	Stanwood opens off Industry track	North		37
Hal's Spur	1.4 Miles south of Stanwood	South		2
Florence	1.7 Miles south of Stanwood	North		4
Rabel's Spur	1.8 Miles north of Silvana	North		2
Norman Spur	1.1 Miles north of Silvana	South		2
Kennedy Spur	4.2 Miles north of Marysville	South		6

NAME	LOCATION	OPENS	LENGTH	CAR CAPACITY
Kruse Bros. Spur	2.5 Miles north of Marysville	North		2
Cox's Spur	1.4 Miles north of Marysville	North		4
Union Slough	1.5 Miles south of Marysville	South		6
Old Main Line	1.5 Miles south of Marysville	South		30
Transfer Track	0.8 Miles north of Long Siding	North		14
Blackman Spur	0.4 Miles south of Long Siding	North		7
Weidauer & Landadown Spur	0.0 Miles south of Long Siding	South		20
Nef's Spur	1.0 Miles south of Long Siding	North		50
Wheelhan Spur	1.1 Miles north of Everett	North		7
Log Dump Spur	1.0 Miles north of Everett	North		21
Clark Nickerson Mill	0.7 Miles north of Everett	North		31
Everett Milling Co.	0.7 Miles north of Everett	North		26
Nickerson Machinery Co.	0.0 Miles north of Everett	South		4
Nail House Spur	0.8 Miles north of Everett Jet.	South		24
Weyerhaeuser Timber Co.	0.2 Miles north of Everett Jet.	North		38

LOCATION OF TUNNELS.

Tunnel No. 18, 1,112.9 feet long, height 21.8, .46 miles north Samish.
" " 19, 141.5 " " " 21.3, .62 " south Sockeye.

Tunnel No. 20, 326.5 feet long, height 20.9, .43 miles south Sockeye.
" " 21, 697.6 " " " 21. .32 " " South Bellingham.

THIRD CLASS				SECOND CLASS				FIRST CLASS			
719				711 385 397				357 359 273 355			
Mdae. Freight				Fast Freight				Passenger			
Daily				Daily				Daily			
Lv 7:30am				Lv 2:00pm				Lv 12:30am			
7:35				2:05				Lv 10:00am			
7:50				2:13				Lv 12:15pm			
8:00				2:17				Lv 4:00pm			
8:10				2:24				7:00 4:04			
8:40				2:42				12:42 10:11 11:27 4:11			
8:50				Lv 1:00pm 2:45				12:47 10:16 11:32 4:16			
8:55				Ar 1:10pm 2:50pm				12:53 10:22 11:38 4:22			
9:10								1:03 10:32 11:48 4:32			
9:40								* 1:10 *10:35 *12:53 * 4:35			
9:50								1:15 10:40 12:58 4:40			
10:30								f 1:25 10:48 f 1:07 4:48			
Ar 11:00am				Lv 3:20pm				* 1:35 *10:57 * 1:17 f 4:58			
				3:50				f 1:43 11:05 * 1:26 5:06			
				270 4:14				* 2:00 *11:15 * 1:35 ³⁶⁰ 5:15 ²⁷⁰ 1:40 ⁷²⁰ * 5:20			
				Ar 5:00pm				* 2:20 *11:27 * 2:00 * 5:30			
Daily				Daily				* 2:40 *11:39 * 2:15 5:42			
719				711 385 397				f 2:46 f 2:21			
3:30				1:40				* 2:55 *11:47 * 2:28 * 5:51			
10:6				2:4				3:00 f 2:33			
				Daily Ex. Sunday				Ar 3:15am Ar 12:05pm Ar 2:48pm Ar 6:07pm			
				Daily Ex. Sunday				Daily Daily Daily Daily			
								357 359 273 355			
								2:45 2:05 2:33 2:07 22 28.2 23.0 27.5			

Special Rules.

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

Double track between Still Creek and a point one and one-half miles north of Sapperton. Normal position of switch at Still Creek is for southbound trains and at point one and one-half miles north of Sapperton for northbound trains.

Trains 359, 270, 355 and 358 will register by card at Colebrook.
Bulletin boards are located at Bellingham and Vancouver.
All trains will come to full stop within 50 feet of home signal on either side of Fraser River Bridge and will not proceed until clear signal is displayed and will not exceed a speed of six miles per hour over this Bridge. All trains will reduce speed to 8 miles per hour over all other drawbridges and over all Interlocking Plants.

Trains must not exceed speed of ten miles per hour over Brunette Street at Sapperton.
All trains will reduce speed to 8 miles per hour through city limits Blaine.
Retaining wall New Westminster between Front Street crossing and Old Interlocking Tower does not give full side clearance. Train or engine men must not hang on side of engine or cars passing same.

Ocean Park, between White Rock and Crescent, will be flag stop for trains 270 and 273.
Custer will be flag stop for 355 for passengers for south of Seattle.
Track lying to the north of crossover between roundhouse and depot, Bellingham will be known as passing track.
The normal position of switches at Colebrook Junction, Guichon Line Junction and Fraser River Junction will be for main line.
Semaphores for protection of draw on Fraser River bridge between Fraser River Junction and New Westminster are located on south and north ends of bridge.

All trains to and from Sixth district will protect between New Westminster and Fraser River Junction.
No trains in either direction will cross International Boundary at Blaine and White Rock without permission of Customs Officers.
Yard limit boards at Bellingham, Blaine and Vancouver.
Yard limit board at Sapperton Sand Pit North of Wye, covers limits to Fraser River Bridge.

DERAIL SWITCHES. Ferndale, 200 feet from east head block passing track.

New Westminster Interlocking System—Signal tower is located 3,094 feet north of north end of Fraser River bridge, opposite crossing of the C. P. Ry. This apparatus controls the crossing of the C. P. Ry., also switches leading to and from the Fraser River Bridge tracks and New Westminster. Distant Semaphores are located 1,200 feet south and north and Home Signals are 500 feet south and north of tower, respectively.

Interlocking plants are in use on bridges 69 and 70 between Crescent and Colebrook. Home signals and derrails are located 600 feet north and south of both bridges. The caution fixed signals are located 3000 feet from home signals. All signals have standard Indications.

Interlock system used on bridge 64, 1,000 feet south of Ferndale. Derrails located 55 feet in advance of home signals. Standard Indications.

Interlocking plant at Ardley, B. C., governing movement of G. N. Ry., trains and B. C., Electric Railway Company trains: Northbound home signal is located 558 feet from crossing and has two arms. Derrail is 58 feet ahead of signal. Northbound distant signal is located 2000 feet from home signal and is automatic. Southbound home signal is located 558 feet from crossing and has two arms. Derrail is 58 feet ahead of signal. Southbound distant signal is located 2000 feet from home signal and is automatic. Both home signals on B. C., Electric line are located 558 feet from crossing and have two arms, with derrails 58 feet ahead of signals. Distant signal is located 2500 feet from home signals and the normal position is 45 degrees up. Distance signals work from 45 to 90 degrees from tower with line control and can only be cleared to the 90 degree position after home signal is cleared to 90 degrees. All signals are standard upper quadrant.

THIRD DISTRICT—VANCOUVER TO BELLINGHAM.

NORTH BOUND. 9

FIRST CLASS				Time Table No. 89 In Effect November 7, 1915				SECOND CLASS				THIRD CLASS				
Ar	Ar	Ar	Ar	358	270	360	356	STATIONS	Telegraph Calls	Distance from Bellingham	SIGNS See Rule 5, Page 18.	398	386	712	720	
Passenger	Passenger	Passenger	Passenger	Mixed	Mixed	Fast Freight	Mdse. Freight									
Daily	Daily	Daily	Daily	Daily Ex. Sunday	Daily Ex. Sunday	Daily	Daily									
Ar 10:00pm	Ar 6:30pm	Ar 3:30pm	Ar 7:30am					VANCOUVER	VN	58.8	R @ DN WC OPK	Ar 11:25am				Ar 4:10pm
9:53	6:23	3:20	7:16					0.7 WYE		58.1	Y	11:20				3:55 4:04
9:47	6:17	f 3:12	f 7:07					2.8 STILL CREEK		55.3	P	11:12				3:50
9:43	6:13	f 3:07	f 7:02					1.9 ARDLEY		53.5	P	11:07				3:45
9:37	6:08	f 2:59	f 6:55					2.6 BURNABY		50.9	P	11:00				3:35
								5.0 SAPPERTON WYE		45.9	W Y PK					
9:26	5:59	f 2:42	f 6:44					0.2 SAPPERTON		45.7		10:47				3:15
9:24	5:56	2:40	6:42					0.7 NEW WESTMINSTER	MN	45.0	R DN I PK	10:45	Ar 11:10am			2:55
9:18	5:51	2:30	6:35					0.4 FRASER RIVER JCT.		44.6		Lv 10:40am	Lv 11:05am			2:50
9:10	5:44	f 2:20	f 6:25					5.2 TOWNSEND		39.4	P					2:35
f 9:00	f 5:35	2:10	6:12					5.4 COLEBROOK	G	34.0	R DN W Y P					2:10
8:50	f 5:25	f 2:02	f 6:00					3.6 CRESCENT		30.4						1:55
8:40	5:15	1:50	5:50					4.8 WHITE ROCK	WR	25.6	DN P					1:35
								3.0 INTERNATIONAL BOUNDARY		22.6						
8:25	4:40	1:25	5:15					0.5 BLAINE	BN	22.1	R DN W T OP		Ar 10:25am			Lv 12:40pm
8:10	4:25	1:10	4:54					7.5 CUSTER	CU	14.6	D P		10:05			
		f 1:02	f 4:46					2.7 ENTERPRISE		11.9						
8:03	4:14	12:55	4:40					2.9 FERNDALE	FD	9.0	D P			9:40		
		12:47	4:29					2.2 BRENNAN		6.8						
Lv 7:50pm	Lv 4:00pm	Lv 12:35pm	Lv 4:15am					6.8 BELLINGHAM	HM	0.0	R @ DN WC T PK			Lv 9:00am		
Daily	Daily	Daily	Daily									Daily Ex. Sunday	Daily Ex. Sunday	Daily		Daily
358	270	360	356									398	386	712		720
2:10 27.2	2:30 23.5	2:55 20.2	3:15 17.5									45 18.4	.05 4.5	1:25 15.8		3:30 10.6

Business tracks not shown as stations on time table.

NAME	LOCATION	OPENS	Length	Car Capacity
Maddouge-Shaw Spur	0.7 Miles north of Ardley	South	...	5
Ardley Power Spur	0.3 Miles south of Ardley	South	...	9
Wolfe Spur	0.5 Miles north of Burnaby	North	...	4
Mill No. 2 Spur	0.7 Miles south of Burnaby	South	...	22
Losells	3.0 Miles north of Sapperton	South	...	8
Haight Spur	2.3 Miles north of Sapperton	South	450	2
Bradley and Taylor	1.5 Miles north of Sapperton	South	...	13
Sand Pit Spur	0.7 Miles north of Sapperton	South	...	31
Distillery Spur	0.0 Miles north of Sapperton	South	...	11
Delta Shingle Co. Spur	0.8 Miles south of Townsend	North	...	13
Mosher Lumber & Logging Spur	2.2 Miles south of Townsend	South	630	36
Campbell Lumber Co. Spur	1.0 Miles south of Whiterock	South	2450	9
Blaine Spur	1.9 Miles south of Blaine	South	...	81
Blaine Shingle Co.'s Spur	2.0 Miles south of Blaine	South	...	6
City Dock Spur (off Passing Tracks)	0.7 Miles north of Sapperton	South	...	5
North Bluff Mill Spur (off City Dock Spur)	0.0 Miles north of Sapperton	South	...	4
Barge Spur (off City Dock Spur)	0.0 Blaine	South	...	2
Drayton Bay Shingle Spur	400 ft. south of Blaine	North	...	3
McDonald Spur	1.2 Miles north of Custer	South	...	13
Enterprise Spur	0.7 Miles north of Enterprise	South	...	10
Sand Pit Spur	0.8 Miles south of Enterprise	South	...	2
Milk Spur	0.3 Miles south of Ferndale	South	...	2
Henry Spur	1.0 Miles south of Brennan	South	...	2
Marietta Spur	3.3 Miles north of Bellingham	South	...	2

THIRD CLASS		FIRST CLASS						Capacity of Side Tracks	Distance from Rockport	Time Table No. 89 Effective November 7, 1915			Signs See Rule 5, Page 18.	FIRST CLASS					THIRD CLASS				
723	725	283	293	291	289	295	279			STATIONS	Telegraph Calls	Distance from Anacortes		290	280	292	294	284	726	724			
Mds. Freight Daily Ex. Sunday	Mds. Freight Daily Ex. Sunday	Passenger Daily	Passenger Daily	Passenger Daily Ex. Sunday	Passenger Daily Ex. Sunday	Passenger Sunday only	Passenger Daily Ex. Sunday	Passing Tracks	Other Tracks			Passenger Daily Ex. Sunday	Passenger Daily	Passenger Daily Ex. Sunday	Passenger Daily	Passenger Daily	Mds. Freight Daily Ex. Sunday	Mds. Freight Daily Ex. Sunday					
Lv 6.30am				Lv 7.24am	Lv 7.44am	Lv 7.40am	Lv 6.15am	39		ROCKPORT.....	RK	53.7	R D Y W	Ar 8.130am	Ar 8.50pm			Ar 4.40pm				
6.50				f 5.00	f 9.53	f 6.28	16		5.8	.....FABER.....		47.9		f 1.12	f 8.35			4.10				
7.40				* 6.10	*10.03	* 6.38	83		9.1	.....CONCRETE.....	BA	44.6	D	* 1.00	* 8.27			3.30				
8.15				f 5.14	f10.06	f 6.41	39		10.2	.....GRASSMERE.....		43.5	W	f12.50	f 8.19			2.40				
8.45				* 5.26	*10.17	* 6.53	41		15.5	.....BIRDSVIEW.....		38.2		*12.38	* 8.07			2.15				
9.15				* 5.38	*10.28	* 7.04	35		20.6	.....HAMILTON.....	H	33.1	D W	*12.25	* 7.55			1.40				
9.35				* 5.48	*10.37	* 7.12	25		23.9	.....LYMAN.....	MY	29.8		*12.15pm	* 7.46			1.10				
9.55				f 6.00	f10.47	f 7.21	21		29.2	.....COKEDALE JUNCTION.....		24.5		f11.58	f 7.34			12.40				
10.15	Lv 8.30am			* 6.11	*10.57	* 7.30	42		32.4	.....SEDRO-WOOLLEY.....	WL	21.3	R D K	*11.50	* 7.26		Ar 7.30am	12.25				
				f 6.17	f11.02	f 7.35			34.7	.....STERLING.....		19.0		f11.38	f 7.17							
Ar 10.40am	Ar 8.50am 10.55am	Lv 7.10pm	Lv 11.30am	Lv 8.35am	Ar 6.30pm	Ar 11.10am	Ar 7.45am	63	225	37.2BURLINGTON.....	BU	16.5	R DN CO WYX	Lv 11.30am	Lv 7.10pm	Ar 7.45am	Ar 10.55am	Ar 6.25pm	7.10 6.15	Lv 12.01pm		
	11.10	* 7.18	*11.38	* 8.43					10	40.0AVON.....		13.7				* 7.36	*10.46	* 6.14	6.00			
	11.20	f 7.25	f11.45	f 8.51					7	42.6FREDONIA.....		11.1				f 7.30	f10.40	f 6.07	5.45			
	11.35	* 7.32	*11.52	* 9.00					17	44.1WHITNEY.....		9.6				* 7.25	*10.35	* 6.00	5.35			
										46.3DRAW BRIDGE.....		7.4										
	11.59	f 7.48	f12.08pm	f 9.15					3	49.6FIDALGO.....		4.1				f 7.11	f10.21	f 5.46	5.15			
	Ar 12.15pm	Ar 8.00pm	Ar 12.20pm	Ar 9.25am					235	53.7ANACORTES.....	AC		R D T W			Lv 7.00am	Lv 10.10am	Lv 5.35pm	Lv 5.00am			
Daily Ex. Sunday	Daily Ex. Sunday	Daily	Daily	Daily Ex. Sunday	Daily Ex. Sunday	Sunday Only	Daily Ex. Sunday										Daily Ex. Sunday	Daily	Daily	Daily Ex. Sunday	Daily Ex. Sunday		
723	725	283	293	291	289	295	279										290	280	292	294	284	726	724
4.10 8.8	3.45 5.7	.50 19.5	.50 19.5	.50 19.5	1.45 21.3	1.30 24.8	1.30 24.8										2.00 15.6	1.40 22.3	.45 22.0	.45 22.0	.50 19.5	2.30 8.5	4.39 8.0
										Time Over District Average Speed Per Hour													

Business tracks not shown as stations on time table.

Special Rules.

East bound trains are superior to west bound trains of the same class.

No. 723 has right over No. 724, Rockport to Burlington.
 Bulletin boards are located at Anacortes, Burlington and Rockport.
 First class trains will stop on flag at Fidalgo Mill Spur, Summit Park, Fox Spur, Duncan Spur, Child's Spur, Minkler, Superior Ave., East Side, Van Horn and Sauk.
 Trains must not exceed speed of 8 miles per hour over draw bridges and Interlocking Plants.
 Normal position of gates at crossing of third and fourth districts at Burlington will be against fourth district trains. Not necessary to stop for crossing when gates are set against opposing district.
 Yard limit boards are located at Burlington and Anacortes.
 Interlocking Plant one half mile west of Sedro-Woolley at crossing of Pacific Northwest Traction Company. Distant signals are located 2000 feet east and west of crossing and have one arm showing caution. Home signals are located 208 feet east and west of crossing. Derails are located 58 feet inside of Home Signals.
 Interlocking Plant just west of Burlington at crossing of Pacific Northwest Traction Company eastbound distant signal is located 2000 feet west of crossing, has one arm showing caution. Home signals are located 55 feet each way from crossing. Derails are located 5 feet inside of home signals. There is no distant signal for westbound trains.

INITIAL STATIONS.

Anacortes for trains Nos. 292, 294, 284 and 726.
 Rockport for trains Nos. 279, 289, 295 and 723.
 Burlington for trains Nos. 291, 293, 283, 290, 280 and 724.
 Sedro-Woolley for No. 725.

TERMINAL STATIONS.

Anacortes for trains Nos. 291, 293, 283 and 725.
 Rockport for trains Nos. 280, 290 and 724.
 Burlington for trains Nos. 279, 289, 295, 292, 294, 284 and 723.
 Sedro-Woolley for 726.

NAME	LOCATION	OPENS	LENGTH	CAR CAPACITY
Sauk Spur.....	2.0 Miles west of Rockport.....	West	.....	2
Tower Mill Co.....	0.3 Miles west of Faber.....	East	.....	19
Van Horne's Spur.....	0.5 Miles west of Faber.....	East	.....	16
Harpet Lumber Co. Spur.....	0.8 Miles east of Faber.....	West	.....	3
Washington Port Cement Co.....	0.7 Miles east of Concrete.....	East	.....	30
Superior Portland Cement Co. Spur.....	0.7 Miles west of Concrete.....	West	.....	28
Burpee Shingle Spur.....	0.4 Miles west of Grassmere.....	West	.....	3
Anna Shingle Spur.....	2.0 Miles west of Grassmere.....	West	.....	2
Stearn's Spur.....	1.2 Miles west of Birdsview.....	East	.....	60
Skagit River Log Spur.....	0.7 Miles east of Hamilton.....	West	.....	20
L. L. Spur.....	0.8 Miles east of Lyman.....	West	.....	3
Hop Ranch Spur.....	Lyman.....	West	.....	22
Skagit Mill Co. Spur.....	3.0 Miles east of Cokedale Jet.....	Both Ends	.....	7
Minkler's Mill.....	5.0 Miles east of Sedro Woolley.....	West	.....	2
Corey Shingle Spur.....	3.3 Miles east of Woolley.....	Both Ends	.....	22
Green Mill Spur.....	Woolley.....	West	.....	7
Sound Iron Spur.....	1.0 Miles west of Woolley.....	West	.....	8
Holbrook's Spur.....	0.6 Miles west of Burlington.....	West	.....	6
Burlington Mill Spur.....	0.7 Miles east of Fredonia.....	East	.....	6
Hawkin's Spur.....	Fredonia.....	West	.....	6
Callahan-Abbott Spur.....	5.9 Miles east of Anacortes.....	West	.....	9
Gravel Pit Spur.....	1.5 Miles east of Anacortes.....	Both Ends	.....	21
Log Rollway.....	4.6 Miles east of Anacortes.....	East	.....	2
Fidalgo Island Shingle Co. Spur.....	2.3 Miles east of Anacortes.....	East	.....	3
Fidalgo Mill Spur.....				

WEST BOUND.

FIFTH DISTRICT—SUMAS TO GUICHON.

EAST BOUND.

SECOND CLASS				Capacity of Side Tracks	Distance from Fraser River Jct.	Time Table No. 89 Effective November 7, 1915		Telegraph Calls	Distance from Guichon	SIGNS See Rule 5, Page 18.	SECOND CLASS		
387	387	397	397			398	398				388		
Mixed Mon., Wed., Thur. and Sat.	Mixed Tue. and Fri.	Mixed Tue., Thur. and Sat.	Mixed Mon., Wed., and Fri.	Passing Tracks	Other Tracks	STATIONS					Mixed Tue., Thur. and Sat.	Mixed Mon., Wed., and Fri.	Mixed Daily Ex. Sunday
Lv 7:00am	Lv 5:30am					0.0	SUMAS, WASH	SU	46.5	R D W C			Ars 5:45pm
						0.0	INTERNATIONAL BOUND'RY		46.5				
8 7:02	8 5:32			26	3	0.1	HUNTINGDON		46.4	W			8 5:43
8 7:15	8 5:45			37	31	3.6	ABBOTSFORD	FS	42.9	R D W			8 5:30
8 7:30	8 7:30				7	8.1	PINEGROVE		38.4				8 5:05
8 7:55	8 7:55			62	31	12.7	ALDERGROVE		33.8	D			8 4:50
8 8:10	8 8:10			26		16.9	OTTER		29.6				8 4:25
8 8:35	8 8:35			61	18	21.6	LINCOLN		24.9	W			8 4:10
Ars 9:00am	Ars 9:00am	Lv 4:30pm	Lv 4:05pm	64	38	29.4	CLOVERDALE	CL	17.1	R D Y	Ars 8:30am	Ars 9:00am	Lv 3:45pm
		f 4:45	f 4:20		4	33.4	ALLUVIA		13.1		8 8:15	8 8:45	
		f 4:50	f 4:25		4	34.9	SOUTHPORT		11.6		f 8:10	f 8:40	
		4:55	4:30			35.9	COLEBROOK JCT		10.6	Y	8:00	8:30	
		8 5:10	8 4:55	58	58	35.9	COLEBROOK	G	10.6	R DN W	8 7:55	8 8:25	
		5:15	5:00			36.7	GUICHON LINE JCT		9.8	Y	7:45	8:15	
		f 5:40	f 5:25		9	42.7	INVERHOLM		3.8		f 7:25	f 7:55	
		f 5:50	f 5:35		2	45.1	CHALLUETHAN		1.4		f 7:10	f 7:40	
		Ars 6:00pm	Ars 5:45pm		10	46.5	GUICHON		0.0	W	Lv 7:00am	Lv 7:30am	Daily Ex. Sunday
Mon., Wed., Thur. and Sat.	Tue. and Fri.	Tue., Thur. and Sat.	Mon., Wed. and Fri.								398	398	388
2.00 14.7	2.00 14.7	1.30 11.4	1.40 10.3				Time Over District Average Speed Per Hour				1.30 11.4	1.30 11.4	2.00 14.7

Special Rules.

West bound trains are superior to east bound trains of the same class.

The normal position of switches at Colebrook Junction, Guichon Line Junction are for main line. All trains Fifth District will protect against all Third District trains between Colebrook Jct. and Guichon Line Jct.
INTERLOCKING governing B. C. E. Ry. crossing, Cloverdale, B. C. Distant signal on north side is located 2,500 feet from crossing and has one arm showing caution. Home signal is located 75 feet from crossing and has two arms. Lower arm one indication, upper arm governs train movements. Home signal on south side is located 15 feet from crossing and distant signal 1,500 feet from crossing. Derails are placed five feet inside each home signal. Normal position of signals will be clear for our line.

INITIAL STATIONS.
Guichon for train No. 398. Sumas for train No. 387. Cloverdale for trains Nos. 388 and 397.
TERMINAL STATIONS.
Guichon for train No. 397.
Cloverdale for trains Nos. 387 and 398.
Sumas for train No. 388.

DERAIL SWITCHES.
Derail switches must always be set for derail except when in actual use whether there are cars on the tracks or not.
Abbotsford east end of passing track.

Business tracks not shown as stations on time table.

NAME	LOCATION	OPENS	CAR CAPACITY
Guichon Slip Spur	0.1 Miles east of Guichon	East	5
Gowdy Road Spur	1.5 Miles east of Challuethan	West	5
Patterson's Spur	1.9 Miles east of Inverholm	West	7
Smith Road Spur	2.0 Miles east of Inverholm	East	5
Matthew Road Spur	3.0 Miles east of Inverholm	East	5
Colebrook Road Spur	1.7 Miles west of Colebrook	East	5
Gravel Pit Spur	0.7 Miles east of Alluvia	West	9
Surry Spur	1.1 Miles west of Cloverdale	West	3
Ferridge Lbr. Co. Spur	1.4 Miles west of Lincoln	West	15
Lincoln Lbr. Co. Spur	1.0 Miles east of Lincoln	West	30
Clark's Spur	1.0 Miles west of Otter	East	2
Otter Shingle Co. Spur	at Otter	East	15
Aldergrove Lbr. Co. Spur	at Aldergrove	East	20
Fish Trap Pit	1.5 Miles west of Pinegrove	Both	40
Pinegrove Lbr. Co. Spur	0.8 Miles east of Lincoln	West	10

SOUTH BOUND.

SIXTH DISTRICT—FRASER RIVER JCT. TO CLOVERDALE.

NORTH BOUND.

SECOND CLASS				Capacity of Side Tracks	Distance from Fraser River Jct.	Time Table No. 89 Effective November 7, 1915		Telegraph Calls	Distance from Hazelmere	SIGNS See Rule 5, page 18.	SECOND CLASS				
387	397	397	385			398	398				386	384			
Mixed Tue., Thur. and Sat.	Mixed Tue., Thur. and Sat.	Mixed Mon., Wed. and Fri.	Mixed Daily Ex. Sunday	Other Tracks	Passing Tracks	STATIONS					Mixed Tue., Thur. and Sat.	Mixed Mon., Wed. and Fri.	Mixed Daily Ex. Sunday	Mixed Tue., Thur. and Sat.	
Lv 2:50pm	Lv 2:50pm	Lv 1:10pm				0.0	FRASER RIVER JCT		20.3				Ars 10:40am	Ars 10:40am	Ars 11:05am
	2:55	2:55	8 1:15			1.0	LIVERPOOL		19.3				10:30	10:30	8 10:55
						3.3	PORT MANN		17.0	D W 2 Miles South					
	f 3:20	f 3:20	8 2:00		18	9.0	PORT KELLS		11.3	D	f 10:05	f 10:05	8 10:15		
Lv 8:40am	8 3:35	Ars 3:35pm	Ars 2:45pm	64	38	15.2	CLOVERDALE	CL	5.1	R D Y	8 9:45	Lv 9:45am	Lv 9:55am	Ars 4:20pm	
Ars 8:55am	Ars 4:00pm				8	20.3	HAZELMERE		0.0		Lv 9:05am			Lv 4:05pm	
Tue., Thur. and Sat.	Tue., Thur. and Sat.	Mon., Wed. and Fri.	Daily Ex. Sunday								398	398	386	384	
1.15 20.0	1.10 17.4	1.45 20.	1.35 11.4				Time Over District Average Speed Per Hour				1.35 12.7	1.55 16.4	1.10 13.0	1.15 20.0	

Special Rules.

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

All Sixth District trains will protect against all Third District trains between Fraser River Junction and West Westminster.
All trains will reduce speed to 8 miles per hour over all draw bridges and Interlocking Plants.
INITIAL STATIONS.
Fraser River Jct. for trains Nos. 385 and 397. Cloverdale for trains Nos. 386, 387 and 398. Hazelmere for trains Nos. 384 and 398.
TERMINAL STATIONS.
Cloverdale for trains Nos. 385, 384 and 397. Hazelmere for trains Nos. 387 and 397. Fraser River Jct. for trains Nos. 386 and 398.

Business tracks not shown as stations on time table.

NAME	LOCATION	OPENS	CAR CAPACITY
Davis Spur	0.5 Miles south of Liverpool	North	4
Brownsville Spur	1.0 Miles north of Liverpool	South	15
Flummerfelt Spur	2.0 Miles north of Port Kells	South	4
David Bell & Co. Spur	1.5 Miles north of Cloverdale	South	25
McNair Spur	2.0 Miles north of Cloverdale	South	2
Washington Shingle Co. Spur	2.2 Miles north of Blaine	South	8
Great Western Shingle Spur	0.5 Miles south of Port Kells	North	7
Campbell Lbr. Co. Spur	1.2 Miles north of Hazelmere	North	4
Blaine Shingle Co. Spur	1.3 Miles north of Hazelmere	North	4

SECOND CLASS.										Capacity of Side Tracks		Distance from Kilgard	Time Table No. 89. In Effect November 7, 1915.		Telegraph Calls	Distance from Abbotsford	SIGNS. See Rule 5, Page 18.	SECOND CLASS.									
										Passing Tracks	Other Tracks		STATIONS.														
										395			KILGARD.....														
										Mixed			5.0 ABBOTTSFORD.....		FS	0.0	R D W										
										Tue. and Fri.																	
										Lv 6.25Am		10	0.0														
										Ars 6.55Am		30	31	5.0													
										Tue. and Fri.																	
										395																	
										.30 10.			Time Over District Average Speed Per Hour														
										394																	
										.30 10.																	

East bound trains have right over west bound trains of same class.

Seventh District trains will protect themselves against Fifth District trains between Abbotsford and Junction, one half mile east of Abbotsford.

INITIAL STATIONS.
Abbotsford....394.
Kilgard.....395.

TERMINAL STATIONS.
Kilgard.....394.
Abbotsford....395.

SECOND CLASS.										Capacity of Side Tracks		Distance from Monroe	Time Table No. 89. In Effect November 7, 1915.		Telegraph Calls	Distance from Tolt	SIGNS. See Rule 5, Page 18.	SECOND CLASS.			
										Passing Tracks	Other Tracks		STATIONS.					390		392	
										391 393			MONROE.....		RO	17.6	DN W Y P	Ars 9.50Am		Ars 4.20Pm	
										Mixed			3.6 HIGHROCK.....			14.0		s 9.38		s 4.08	
										Daily Ex. Sunday			5.5 DUVALL.....			8.5	D P	s 9.25		s 3.55	
										Lv 6.20Pm			5.7 STILLWATER CROSSING..			2.8		s 9.07		s 3.37	
										Lv 6.30		47	27	3.6							
										s 6.45		35		9.1							
										s 7.00				14.8							
										Ars 7.10Pm		31	26	17.6		0.0	D W T P	Lv 9.00Am		Lv 3.30Pm	
										Daily Ex. Sunday			8.5 TOLT.....			0.0		Daily Ex. Sunday		Daily Ex. Sunday	
										391 393							390 392		390 392		
										.50 21.1			Time Over District Average Speed Per Hour				.50 21.1		.50 21.1		

East bound trains have right of track over west bound trains of the same class.

INITIAL STATIONS.
Tolt 390-392.
Monroe 391-393.

TERMINAL STATIONS.
Monroe 390-392.
Tolt 391-393.

Business tracks not shown as stations on time table.

NAME	LOCATION	OPENS	LENGTH	CAR CAPACITY
Cerenis Spur	4.6 Miles west of Monroe	West	268 ft	6
O'Neill Gowen Shingle Co. Spur	6.0 Miles west of Monroe	East	350 ft.	4
Bacus Spur	6.4 Miles west of Monroe	West	320 ft.	5
Novelty Spur	11.6 Miles west of Monroe	West	658 ft.	15

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

STATIONS	Ruling Grade	Class M2-1950-1990				Class L1-1900-1921				Class L2-1800-1844 " "O"3020-3069				Class F4-1095-1099 " F5-1100-1109 " F6-1110-1129 " F7-1130-1139 " F8-1140-1199 " F9-1300-1324 " G5- 800- 807				Class G2-700-719 " G3-720-769				Class F1-500-565 " D5-450-476				Class D2-300-359				Class D4-400-426				Class B6-232-238			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		Gold Bar to Skykomish.....	1.0	1700	1600	1400	1200	1000	775	575	715	385
Skykomish to Cascade Tunnel....	2.2	850	.....	.....	.....	800	.....	.....	.....	700	.....	.....	.....	600	.....	.....	.....	480	.....	.....	.....	360	.....	.....	.....	275	.....	.....	.....	340	.....	.....	.....	183	.....	.....	.....
Cascade Tunnel to Leavenworth..	Down	2500	.....	.....	.....	2500	.....	.....	.....	2500	.....	.....	.....	1500	.....	.....	.....	1250	.....	.....	.....	900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Leavenworth to Cascade Tunnel..	2.2	850	.....	.....	.....	800	.....	.....	.....	700	.....	.....	.....	600	.....	.....	.....	480	.....	.....	.....	360	.....	.....	.....	275	.....	.....	.....	340	.....	.....	.....	185	.....	.....	.....
Seattle to Delta.....	0.5	.....	.....	.....	.....	.....	.....	.....	.....	3300	.....	.....	.....	2100	.....	.....	.....	750	.....	.....	.....	1350	.....	.....	.....	1050	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Delta to Seattle.....	0.4	.....	.....	.....	.....	.....	.....	.....	.....	3600	.....	.....	.....	2500	.....	.....	.....	2100	.....	.....	.....	1460	.....	.....	.....	1120	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cascade Tunnel to Gold Bar.....	Down	2500	.....	.....	.....	2500	.....	.....	.....	2500	.....	.....	.....	1500	.....	.....	.....	1250	.....	.....	.....	900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bellingham to Delta.....	0.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2300	.....	.....	.....	1650	.....	.....	.....	1300	.....	.....	.....	1000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Delta to Bellingham.....	0.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2500	.....	.....	.....	1800	.....	.....	.....	1460	.....	.....	.....	1120	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Delta to Gold Bar.....	0.4	.....	.....	.....	.....	3800	.....	.....	.....	3500	.....	.....	.....	2500	.....	.....	.....	1800	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gold Bar to Delta.....	0.3	.....	.....	.....	.....	4000	.....	.....	.....	3800	.....	.....	.....	3000	.....	.....	.....	2200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bellingham to Vancouver.....	1.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1300	.....	.....	.....	1000	.....	.....	.....	775	.....	.....	.....	575	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vancouver to Bellingham.....	1.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1300	.....	.....	.....	1000	.....	.....	.....	775	.....	.....	.....	575	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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—Ten below zero and colder.

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

Weight of Empty Cars and Dead Engines and Tenders will be estimated as follows, when not marked:

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
Express Refrigerator Cars.....	33 Tons
Furniture Cars, 30 to 40 foot.....	17 Tons
Furniture Cars, 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
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
Engine Tank (Empty).....	30 Tons
Mail Cars.....	25 Tons
Baggage Cars.....	30 Tons
Coaches, 8 wheel.....	30 Tons
Coaches, 12 wheel.....	35 Tons
Dining Cars and Tourist Cars.....	40 Tons
Sleeping Cars, Parlor Cars and Observation Cars.....	40 Tons

Weight of Dead Engines.

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
Engines numbered in 3000 series.....	217 Tons
Engines numbered 1750 to 1764.....	240 Tons

Speed Limits for Trains.

	Passenger	Freight
Between Leavenworth and Skykomish.....	35 miles per hour.	20 miles per hour.
Through Cascade Tunnel.....	20 miles per hour.	15 miles per hour.
Through Martin Creek Tunnel No. 15 and Bridges Each End.....	8 miles per hour.	8 miles per hour.
Skykomish and Gold Bar.....	40 miles per hour.	20 miles per hour.
Gold Bar and Pacific Avenue.....	50 miles per hour.	25 miles per hour.
Cherry Valley Line.....	25 miles per hour.	15 miles per hour.
Everett Jet. and Seattle.....	50 miles per hour.	25 miles per hour.
Delta Wye and Samish.....	50 miles per hour.	25 miles per hour.
Samish and Bellingham.....	40 miles per hour.	20 miles per hour.
Bellingham and Still Creek.....	45 miles per hour.	25 miles per hour.
Still Creek and Vancouver.....	20 miles per hour.	15 miles per hour.
Siagit Branch.....	25 miles per hour.	15 miles per hour.
Fraser River Jet. and Cloverdale.....	25 miles per hour.	15 miles per hour.
Guichon to Cloverdale.....	25 miles per hour.	15 miles per hour.
Cloverdale and Sumas.....	30 miles per hour.	20 miles per hour.
Cloverdale and Hazelmere.....	20 miles per hour.	15 miles per hour.
Kilgard Branch.....	20 miles per hour.	15 miles per hour.

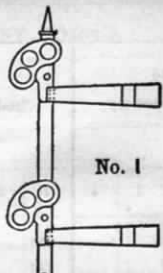
L-1, L-2 and M-2 engines will not exceed speed of 25 miles per hour.
 F-7, 8 and 9 engines will not exceed speed of 30 miles per hour.

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 a 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.

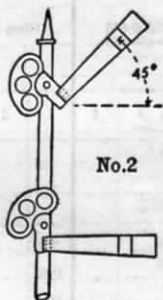
ELECTRIC TRAIN STAFF BLOCK SIGNAL DIAGRAMS.



No. 1

Home Signal.

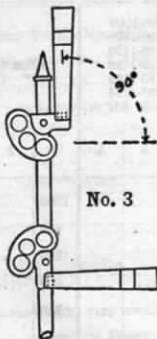
Color. Upper Arm RED light at night.
Lower Arm RED light at night.
Indication. STOP. Proceed only when Signal clears.
Name. STOP Signal.



No. 2

Home Signal.

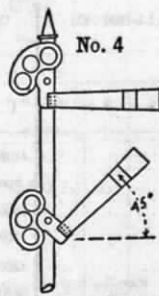
Color. Upper Arm, YELLOW light at night.
Lower Arm, RED light at night.
Indication. Proceed on main line with caution, be prepared to stop at the Block Station.
Name. CAUTION Signal.



No. 3

Home Signal.

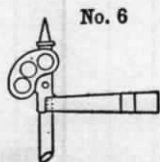
Color. Upper Arm GREEN light at night.
Lower Arm, RED light at night.
Indication. Main line route clear staff in crane
Name. CLEAR Signal.



No. 4

Home Signal.

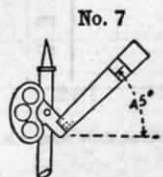
Color. Upper Arm, RED light at night.
Lower Arm, YELLOW light at night.
Indication. Take Passing track.
Name. CAUTION Signal.



No. 6

Distant Signal.

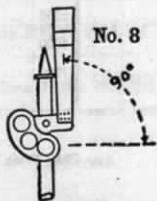
Color. RED light at night.
Indication. STOP then proceed with caution to Home Signal.
Name. STOP Signal.



No. 7

Distant Signal.

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



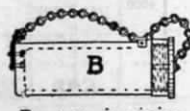
No. 8

Distant Signal.

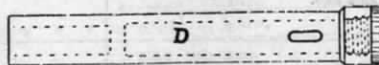
Color. GREEN light at night.
Indication. PROCEED. Staff in Crane.
Name. CLEAR Signal.



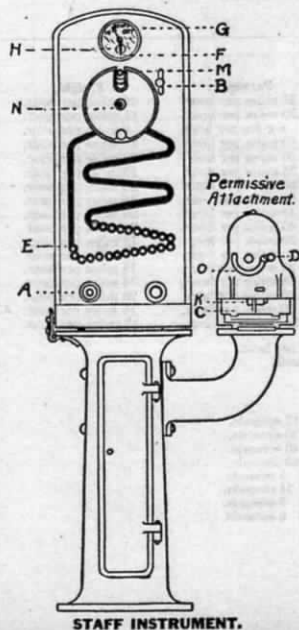
Pouch for permissive staff disc.



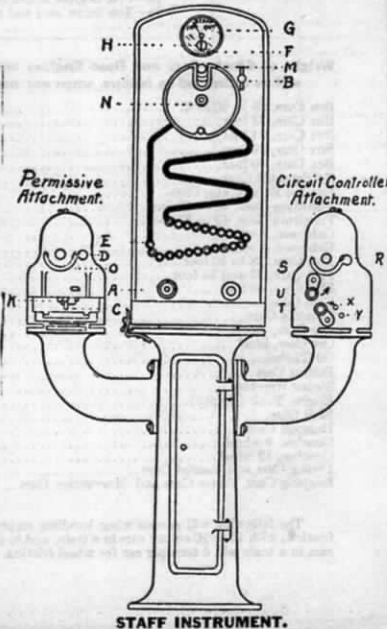
Pouch for permissive staff complete.



POUCH FOR ABSOLUTE STAFF.



STAFF INSTRUMENT.



STAFF INSTRUMENT.

Bell Code of Signals

- 1 — To attract attention.
- 2 -- All Right. Yes.
- 3 --- Block wanted, Unlock my Instrument, Ans. by Unlocking or by 5 or 3-1.
- 4 ---- Train has entered Block.
- 5 ----- Block is not clear.
- 6 ----- Has a train entered this Block? Answer by 2 or 2-1.
- 1-2 --- Clear. Train has cleared Block.
- 2-1 --- No.
- 2-2-2 ---- Previous Signal given in error. Answer by 2.
- 2-4 ---- Has train Cleared Block? Answer by 5 or 3-1.
- 3-1 ---- Have unlocked. Block is clear. It must not be used unless Block is known to be clear.
- 3-3 ---- Train in Block.
- 5-5-5 ---- Obstruction in Block. Stop all trains approaching this Station. Answer by repeating.
- 8 ----- Testing. Answer by repeating.

GENERAL INSTRUCTIONS

FOR

OPERATING TRAIN STAFF INSTRUMENTS.

TO REMOVE STAFF FROM MACHINE.

Instructions to Operator removing staff.

- 1st. Press bell key "A" once. Answer will be two @ tape.
- 2nd. Press bell key "A" three @ times. Then watch current indicating needle "F" until it deflects to the right.
- 3rd. Turn preliminary spindle "B" to the right as far as it will go and then release it, permitting it automatically to return to its former position. A white disc will appear in place of the red one at "H". This indicates that staff is ready to be removed.
- 4th. Move end staff "E" up to vertical slot into engagement with guard "N". This guard having been turned so that the staff will slip into the slot in the edge of the guard "N."
- 5th. Revolve guard "N" using staff as a handle and withdraw the staff through the opening at "M". This operation moves staff, indicating needle "G" from "Staff in" to "Staff out."
- 6th. Immediately upon withdrawal of staff, press bell key "A" once. This is absolutely necessary.

Instructions to Operator aiding in removal of a staff.

- 1st. Upon receipt of one ring acknowledge same by two pushes on bell key "A."
- 2nd. Upon receipt of three rings, press bell key and hold it so until staff indicating needle "F" moves from left to right Twice then release key "A" as operation is complete.

TO REPLACE STAFF IN THE MACHINE.

Instructions to Operator replacing staff.

- 1st. Turn outer guard "N" to place and insert staff in the opening "M."
- 2nd. Using staff as handle revolve guard "N" to the right and allow staff to roll down spiral into place.

TO REPLACE THE PERMISSIVE STAFF IN THE MACHINE.

- 1st. Be sure all discs are on the permissive staff in their proper numerical order.
- 2nd. Place staff in attachment, close door "C" and latch with "K."
- 3rd. Move solid staff to the right thru slot "O" and remove at opening "D."

TO REMOVE THE PERMISSIVE STAFF FROM MACHINE.

- 1st. Insert solid staff in the opening "D" of the permissive attachment and move to the extreme left of the slot "O."
- 2nd. Turn the latch "K" and allow door "C" to drop and the permissive staff to roll out.

INSTRUCTIONS FOR OPERATING SEMAPHORE SIGNALS THROUGH CIRCUIT CONTROLLER ATTACHMENT.

- 1st. To operate Upper Arm of Semaphore 0° to 45° (See Fig. No. 2), turn handle "T" to the right clockwise to stop "X."
- 2nd. "To operate Upper Arm of Semaphore 45° to 90° (See Fig. No. 3), withdraw absolute staff and insert into opening "R" and move to extreme left of slot "S" then turn handle "T" to right to stop "Y," remove absolute staff from opening "R" and place staff in Pouch "D", Fig. 9. Then place Pouch in staff crane which action automatically "Clears" Home and Distant Signals to 90° Position. (See Fig. Nos. 3 and 8).
- 3rd. To operate Lower Arm of Semaphore 0° to 45° (See Fig. No. 4), turn handle "U" to the right as far as it will go.

ELECTRIC TRAIN STAFF BLOCK SIGNAL RULES AND INSTRUCTIONS.

15

Electric Train Staff Block Signal System in operation between Leavenworth and Skykomish, Everett Jct., and Pacific Ave., and between Delta Wye and Marysville.

The use of the divided staff through Cascade Tunnel and all rules and instructions pertaining thereto will continue in effect.

All rules relating to the protection of trains are in force and are only modified by the General Instructions herein.

1. All trains and engines in both directions will be governed exclusively in their movements by the train staff.
2. Home and Distant semaphores are located at each block station. Home signals are located at the passing track switches. Distant Signals are located about 4000 feet from home signals. The signal indications are illustrated by figures Nos. 1, 2, 3, 4, 6, 7, 8 and the meaning of the positions of the signal arms and lights is explained under the diagrams. In all cases 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.
3. The possession of the staff by the Engineer gives his train the absolute right of track to the next block.
ENGINEERS MUST KNOW THAT THE STAFF IS IN THE POUCH BEFORE PROCEEDING.
4. The staff will be handled by the Engineer of the leading engine of the train; and the staff must be in the actual possession of the Engineer before he moves his train into a block, and such engine must not be uncoupled from the train except at a block station. The Conductor will receive a "proceed" signal from Block Operator to indicate that staff has been delivered to Engineer. (See Rule 29).
- 4-A. In the case of an engine pushing a train, it must be considered as part of that train through to the next block station. Such engine, if then uncoupled, must be treated as a separate train.
5. When a staff has been secured by the Engineer, he will announce the fact by sounding one short, one long and one short blast of the whistle, thus (o—o).
6. An absolute staff permits but one train at a time to use a block. See D figure No. 9.
- 6-A. A permission staff disc, permits two or more trains in the same direction at one time to use a block on ascending grade only. Each train must be in possession of a permissive staff disc before proceeding. See C, Fig. No. 9.
- 6-B. Permissive staff complete permits but one train at a time to use a block. See B, Fig. No. 9 and Rule No. 22-F.
7. The delivery of the staff to the Enginemen will be either by staff crane, hand of Block Operator, or the Conductor or head Brakeman of his own train and the Engineer must not accept delivery of a staff from any other person. Block Operators will not deliver staff to any other than one of these employes.
8. Staff will be delivered by Engineer on arrival at Block Station by dropping same at a designated spot, or, in case of taking siding, and it cannot be personally delivered by Engineer, it will immediately be sent to Block Operator by head Brakeman or Conductor.
UNDER NO CIRCUMSTANCES WILL A STAFF BE TRANSFERRED FROM ONE TRAIN TO ANOTHER. IT IS THE DUTY OF THE BLOCK OPERATOR TO SEE THAT ALL OF THE TRAIN CLEARS THE BLOCK BEFORE INSERTING STAFF INTO INSTRUMENT.
9. In case a train parts, or it is necessary to "double," the staff must be retained by the Engineer until all the train is clear of the block. A train is clear of a block when it has passed the home signal. A train proceeding on main track enters a block at the block office. It may occupy the main track inside of home signals in either direction to do station work or to allow another train to enter the sidetrack, but must not proceed until in possession of a staff, as per Rule No. 3.
- 9-A. A train making switching movements may use the main track to, but not beyond the distant signal, when protected as per Rule 99. Superior class trains must not be delayed.
10. Enginemen and Trainmen will carefully note the position of all signals and be governed accordingly in the movement and protection of their trains. See Figs. Nos. 1, 2, 3, 4, 6, 7, 8.
11. Conductors and Engineers, before leaving initial points, must secure clearance card, Form 219.
12. Block Operators, unless otherwise instructed by Train Dispatcher, will staff the train of superior time table rights and side track the inferior train when a meeting point develops at their station.
13. When it is desired to reverse the right of track, trains will be moved by Train Dispatcher's orders on Form 19, issued to Block Operators giving instructions to staff the train that is to receive preferred attention, and side track the superior train.
14. Work trains, after receiving orders authorizing the existence of the train, will occupy the block after receiving the absolute staff until same is surrendered at a block station at either end of the block. They will be given a time by the Train Dispatcher when delivery shall be made, and unless otherwise instructed, they shall clear the block and deliver the staff to the Block Operator so that regular and extra trains will not be delayed. Train Dispatcher may authorize the delivery of a permissive disc in the prescribed direction to enable work train to work under protection of flag until following train approaches.
15. In case of failure of staff apparatus, all concerned must be notified and trains will be moved by train orders until it has been repaired. In such event, the train order takes the place of the staff, though only one block on each train order and this order must be given jointly to the Conductor and Engineer of the train and the Block Operator at both ends of the block.
- 15-A. In the event of staff apparatus and other means of communication becoming out of order due to the breakage of line wires or other causes, trains will move in accordance with general rules and time table rights, obtaining at each block office, block card, Form No. 2615 signed by Block Operator.
- 15-B. When a staff apparatus has been repaired it will not be put into use until authorized by Train Dispatcher.
- 15-C. Before issuing train orders, superseding staff system, the Train Dispatcher must know that block is clear and the Block Operator and Train Dispatcher must know that the full number of staffs are in the two instruments of this block.
16. In case a staff should be lost, the staff instruments in this block are inoperative and trains must be moved only by the authority of Train Dispatcher, who will then issue train orders. The staff can only be replaced by Signal Repairman who has charge of the staffs not in use. No extra staffs will be allowed in the possession of any other employe.
17. Should a train pass a block station without markers, the Block Operator must notify the Train Dispatcher and the next block station in each direction and must not report that train clear of the block until he has ascertained that the train is complete.
18. A record of all trains must be kept at each block station on Form No. 290.
19. In case of unexpected delay to a train to which a staff has been delivered, same can be recalled by Block Operator and return of staff to the instrument will cancel the authority given to such train to proceed. The train then has no right to main track until given another staff.
20. Block Operators must not deliver a staff received from one train to another train. It must be placed in the instrument and another withdrawn in accordance with the rules.
21. **BLOCK OPERATORS WILL HANDLE THE STAFF MACHINES IN ACCORDANCE WITH THE RULES AND GENERAL INSTRUCTIONS FOR OPERATING STAFF INSTRUMENTS.**
- 21-A. When two or more trains bound in opposite directions are at a block station, Block Operator must exercise great care in delivery of staffs and must know that the staff is delivered to the train for which it was withdrawn.
22. Absolute staffs (See D, Fig. No. 9) must be used for all trains on descending grades, or eastbound from Cascade Tunnel to Leavenworth, and westbound from Tye to Skykomish.
- 22-A. Permissive staff discs (See C, Fig. No. 9) may be used on ascending grades, or westbound from Leavenworth to Cascade Tunnel, and eastbound from Skykomish to Tye, for all trains except as per rule 22-B.
- 22-B. Permissive staff discs must not be given to Enginemen with light engines or light tonnage trains to follow a passenger train.
- 22-C. Trains moving under authority of a permissive staff disc must protect against following trains as per Rule No. 99.
- 22-D. When two or more trains use permissive staff discs the last train will be given the permissive staff (See B, Fig. No. 9) with all the remaining discs and this confers the same rights as a single permissive staff disc.
- 22-E. The Block Operator receiving the permissive staff must at once assemble on it in numerical order all the permissive discs received from preceding trains and place the complete permissive staff in the permissive attachment.
- 22-F. The first train in the opposite direction (descending the grade) must be given the complete permissive staff, which confers the same rights as an absolute staff.
23. When no train movement is imminent, home signals must be kept in stop position.
24. Block Operators must not make nor permit any unauthorized alterations or additions to the apparatus. If alterations or additions are made, the work will be done under the direction of the Signal Supervisor.
25. If any electrical or mechanical appliance fails to work properly, the Signal Repairman and Train Dispatcher must be notified and only duly authorized persons permitted to make repairs.
26. Block Operators must have the proper appliances for hand signaling (a yellow flag by day and a yellow light by night) ready for immediate use. Hand signals must not be used when the proper indications can be displayed by the fixed signals. When hand signals are necessary, they must be given from such a point and in such a way that there can be no misunderstanding on the part of Enginemen or Trainmen as to the signals or as to the train for which they are given.
27. Block Operators are responsible for the care of the block station, lamps and supplies and of the signal apparatus unless provided for otherwise.
28. Lights in block stations must be so placed that they cannot be seen from approaching trains.
29. Block Operators will remain in view until the rear of a train has passed and will give a "proceed" signal to the Conductor on rear of train to indicate that a staff has been delivered to Engineer.
30. The Engineer of a train which has parted must sound the whistle signal for "train parted" on approaching a block station.
31. An Engineer receiving a "train parted" signal must answer by two short blasts of the whistle.
32. When a parted train has been recoupled the Block Operator must be notified.
33. If the track is obstructed between block stations notice must be given to the nearest Block Operator.
34. If a train is held by a block signal to exceed two minutes, the Conductor must ascertain the cause.
- 34-A. The Conductor must report to the Superintendent any unusual detention at block stations.
35. Special attention of all concerned is directed to meaning of caution signal as shown by Fig. No. 2.
36. Staff instruments must be kept locked. Keys will be furnished to the signal repairman but to no other person.

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 other than a train in the block, 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 crossings with switches to or from a main track, one of the switches must be kept open until train movement is completed to insure safe operation.

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

If either end of a siding crossover on single track is opened it will set and hold the signals that control the siding on the track to which it leads in both directions at stop. Neither switch for crossover must therefore be opened, until the main track switch has been made, and must be closed immediately after the main signal has been made and the switches locked.

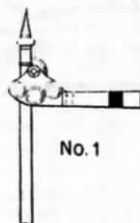
509. Switch Indicators, indicating whether switches are closed, stand normally in "STOP" position. Trains or other moving vehicles equipped with switch indicators must first push button on bottom of switch indicator case and if no train or engine within switch indicator will clear when switch may be used. The switch should be thrown at once after switch indicator clears.

510. When necessary to clean ash pan or cinders from the track, care inside of block signal limits care must be taken to avoid dropping live coals or hot cinders on the wooden trackbed 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.

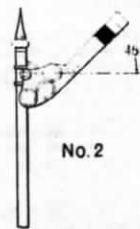
512. Cars on side track or other tracks connecting with main tracks must be kept clear of bonded rails and insulated joints on both tracks signals will be held in "STOP" position. All tracks connecting with main track are bonded to clearance point only.

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 cases Interlocking Signals are equipped with not less than three colored lights, see general instructions governing operation and maintenance of interlocking plants and figures Nos. 7, 8, 9, 10, 11 and 12.



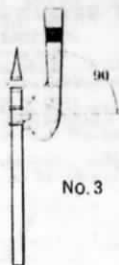
INTERMEDIATE
AUTOMATIC BLOCK SIGNAL.

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



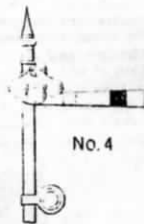
INTERMEDIATE
AUTOMATIC BLOCK SIGNAL.

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



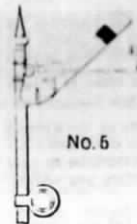
INTERMEDIATE
AUTOMATIC BLOCK SIGNAL.

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.

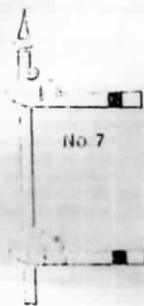
601. Trains or engine may be run to but not beyond a signal indicating "Stop," except as provided in Rule 603.
602. If a clear or Caution signal, after being accepted, is changed to a "Stop" signal before it is reached, the stop must be made at once. Such occurrence must be reported to the Superintendent.
603. Engine-men 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.
604. The Engine-man of a train which has parted must sound the whistle signal for "train-parted" on approaching an interlocking plant.
605. An Engine-man receiving a "train-parted" signal from a Signalman must answer by the whistle signal for "train-parted."

606. When a parted train has been re-coupled the Signalman must be notified.
607. Sand must not be used over movable parts, or ashes dumped within the limits of an interlocking plant.
608. Conductors must report to Superintendent any unusual detection at interlocking plants.
609. 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.

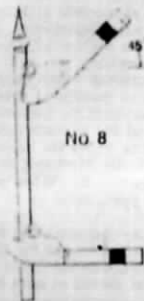
623. If there is a derailment, or if a switch is run through, or if any damage occurs to the track or interlocking plant, or if any part of the interlocking apparatus fails to operate properly, the signals must be restored to the normal position, and no train or switch movement permitted until the track 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.



INTERLOCKING HOME SIGNAL.

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



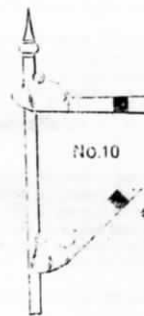
INTERLOCKING HOME SIGNAL.

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.



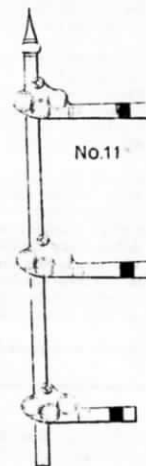
INTERLOCKING HOME SIGNAL.

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



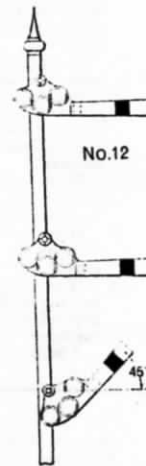
INTERLOCKING HOME SIGNAL.

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



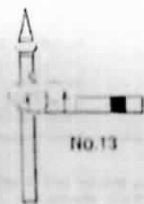
INTERLOCKING HOME SIGNAL.

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.



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.



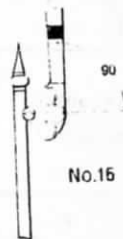
INTERLOCKING DISTANT SIGNAL.

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



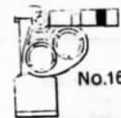
INTERLOCKING DISTANT SIGNAL.

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



INTERLOCKING DISTANT SIGNAL.

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



DWARF SIGNAL.

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



DWARF SIGNAL.

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

SPECIAL RULES.

- Freight trains running between Leavenworth and Skykomish will not carry passengers.
- Horizontal position of the semaphore blades by day and yellow light shown by night indicates that switches with which the distant signals are connected are open and approaching trains should immediately be brought under control.
- Diagonal position of the blades and green lights displayed at night indicate that switches with which the distant signals are connected are properly set and train should proceed as per rule.
- Car capacity of passing tracks based on 42 feet to the car inside of clearance points and does not allow for engines or cabooses. Car capacity other tracks do not include engine house tracks, turn table tracks, shop tracks, safety tracks or wye tracks.

REFERENCE MARKS.

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

PERSONAL INJURIES.

- 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.

- 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.

- 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.
- 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 a 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.
- 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.

- 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.
- 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.
- 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.
- 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, Pittsburgh Building, St. Paul.
 Boeckman and Boeckman, Ophthalmic Surgeons, 642 Lowry Building, St. Paul.
 Leavenworth DR. G. W. HOXSEY.
 Skykomish DR. C. E. GREASON.
 Monroe DR. H. K. STOCKWELL.
 Everett DR. C. A. MEAD and W. T. FLYNN.
 Interbay DR. F. A. BOOTH.
 Seattle DR. H. M. READ.
 Seattle DR. R. W. PERRY, Oculist.

Vancouver, Wash. DR. J. T. GUERIN.
 Tacoma DR. JAMES A. LA GASA.
 Burlington DR. H. E. CLEVELAND.
 Bellingham DR. W. A. KIRKPATRICK.
 Blaine DR. A. A. SUTHERLAND.
 New Westminster DR. GEO. E. DREW.
 Vancouver DR. A. S. MONRO.
 Anacortes DR. H. E. FROST.

TIME INSPECTORS.

Leavenworth F. E. CARLQUIST.
 Seattle J. F. HUNTER.
 Burlington J. H. CROSSBY.
 Everett ROBT. ANDERSON
 Bellingham WILBER GIBBS.

Vancouver, B. C. PAUL & McDONALD.
 Tacoma, Wash. RICHARD VEATH.
 Centralia, Wash. BEN SALICK.
 Portland, Ore. C. CHRISTENSON.
 Monroe, Wash. C. E. RICHEY.

Delta—

E. O. WADHAMS, Dispatcher.
 T. H. REED, Dispatcher.
 G. E. WELLIEN, Dispatcher.
 J. C. DEVERY, Chief Dispatcher.
 D. MOORE, Night Chief Dispatcher.

J. BRADY, Train Master and Traveling Engineer.
 S. CORRIGAN, Train Master.
 JOS. WEBER, Superintendent of Terminals.

GREAT NORTHERN RAILWAY and Connections.

