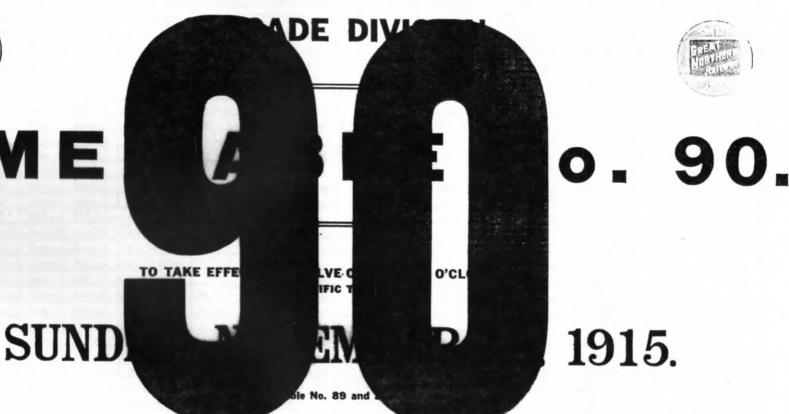
# GREAT NORTHERN RAILWAY



TIME



THIS TIME TABLE IS FOR THE USE OF EMPLOYES 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.

#### WEST BOUND.

#### FIRST DISTRICT-LEAVENWORTH TO EVERETT JUNCTION.

1711	RD CLASS		SECONE	CLASS		Capar of Si Trac	de		Time Table No. 90	١.					FIRST CLASS		
	731	715	411	401	727	Trac	ki	from	In Effect Nevember 21, 1915	8	25	285	1	43	27	297	
	N P. 935 Freight	Mdse, Freight	Fast Freight	Fast Freight	N. P. 675 Freight	No.	.4	Distance		der	Passenger	Passengur	Passenger	Parantger	Fast Mail	N. P. III	
	Daily Ex. Sunday	Daily Ex. Sunday	Daily	Daily	Daily Ex. Funday	Passing	Other	43	STATIONS	1 ek	Daily	Daily Ex. Sunday	Daily	Duly	Daily	Duity	
			L+ 2.20m	L+ 8.00km		60	492		LEAVENWORTH	СВ	Lr 2.154		Lr 2.05m	Lr 4.35m	Lr 11.55fm		
			3.02	8.40		75		6.3	DRURY	DY	2.33		2.23	4.53	12.12ka		
			3.30	9.05		155	22	10.5	CHIWAUKUM	CY	2.44		2.36	1 5.05	12.22		
			4.00	9.25		74	10	13.0	#winton	W1	2.50		2 43	f 5.13	12.29		
			4.20	9.45		71	4	17.5	NASON CREEK		2.58		2.55	f 5.22	12 38		
			4.50	10.00		145	5	20.5	3.0 MERRITT	CK	3.04		• 3.01	. 5.30	12.44		
			6.20	10.35		78		24.9	GAÝNOR	GR	3.19		3.16	5.47	12.58		
			6.02	11.10		152	5	28.0	3.1 BERNE	BR	3.33		3.28	f 6.02	1.10		
			6.40	11.50		176	87	32.3	CASCADE TUNNEL	CN	3.50	WOT	402 • 3.45	. 622	1.25		
			7.10	12.10m		85	263	35.9	Z J. 6	. WN	. 4.05		1 4.00	. 6.37	11.38		
			7.30	12.40		70	8	29.5	2EMBRO	NY	4.15		4.10	1 6.48	1.50		
			7.45	402-26 1.18		75	10	42.2	COREA		4.23		4.18	6.57	1.59		
			8.10	1.40	1	75	22	45.2	SCENIC SCENIC	. MA	1 4.33		. 4.28	s 7.08	207		
			8.25	2.05		76	9	48.3	ALPINE	-	442		4.37	1 7.19	2.15		
			8.40	2.25		78	15	51.8	TONGA		4.51		4.46	1 7.30	225		
		Lr 7.00km	3:38	3.58		63	230	87.0	SKYKOMISH		* 8.98	L+ 8.50km	• 5.88	. 7:45:3	* 1:18 "		
		7.15	9.40	3.35		72	7	61.1	GRÓTTO		5.19	1 9.00	5.13	7.58	2.54		
		7.30	10.05	3.50		60	60	66.1	HALFORD	. 8A	5.29	1 9.14	5.22	8.07	3.03		
		402 8.00	10.20	4.10		71	21	71.2	INDEX	NX	5.40	9.28	5.31	. 8.19	3.14		
		8.30	10.35	4.25	are il	78	17	76.3	REITER		5.50	1 9.40	5.40	8.28	323		
Ì		9.15	10.45	5.00		85	330	80.0		GB	5.57	. 9.47	5.46	. 8.36	3.99		
		9.25					45	82.4	STARTUP	RU	6.01	9.53	5.50	. 842	3 33		
		10.03	11.07	6.25		70	33	85.8			.6.08	41 0.03	1 5.55	· 8.50	3.39		
		10.53	11.45	1-256 6.10		105	35	93.3		RO	1 6.23	10.21	286-401 • 6.10	. 0.07	3.53		
	Lv 5.00m	11.45	12.15kg	6.45	L- 12.54An	-	116	100.2	SNOHOMISH	но	1 6.37	110.38	. 6.25	. 9.28	4.06	L+ 4.45fm	
	Ar 5 20m	12.05m	12.40	7.00	Ar 1.15An			106.0	Lowell		732 6.47	10.48	6.35	9.39	4.15	A 4.55M	
							174	107.6	PACIFIC AVENUE	D	6.50	110.53	6.38	9.42	4.18	3.0012	
							8	108.7	ZYS EVERETT		1 7.02	10.57	1 648	9.53	. 4.27		
							-	109.5	EVERETT JUNCTION.	JN	Ar 7.054			Ar 9.55%	Ar 4.30An		
		Ar 12.30m	Ar 1.30An	Ar 8.00m		75	637	109.3	Via N. P. Ry.		7.00	-11.00	0.00#	- P.OUR	1.304		
	Daily Ex. Sunday	Daily Ex. Sunday	Daily	Daily	Daily Ex Sunday	1	-				Daily	Daily Ex. Sunday	Daily	Daily	Daily	Daily	
	731	715	411	401	727	1	_			-	25	285	1	43	27	297	
	17.4	5.30	11.10	12.0	17:01	1	_		Time Over District Average Speed Per Hour	-	4 50 22 7	2.10 24.3	4.45 23.0	5.20 20.8	4.35	34 8	

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 Skykemish 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 least bound trains from Northern Pacific counsection 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.

#### Special Rules.

FIRST DISTRICT—LEAVENWORTH TO EVERETT HINCTION 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 its Salite Class.
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 Freight t. ains will use N. P. tracks between Lowell and Delta and will be governed by N. P. time table and rules be-

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 Cit, limits of Mouroe. Passenger trains reduce speed to 25 miles per hour and freight trains to 15 miles per hour through City limits of Mouroe. 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 cast of Shelby.

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

Berin and Barring and Halybrook Spurt two miles east of Index will be flag stop for Nos. 285 and 286.

No. 25 will stop on flag at Secuic to pick up passengers for Everett and beyond.

No. 2 will stop at any station between Skykomiad and Leavenworth to pick up passengers for Twin Cities and east.

Additional to other required tests of the air brake, no train will leave Cascade Tunnel until the air brakes we heen carefully tested. Engineer will set the brakes and leave them set until trainment sample and the set here.

have been carefully tested. Engineer will set the brakes and leave them set until trainmen examine each car, nave noest carefully texted. Engineer will set the brakes and leave them set until trainmen examine sach car, then release them, and trainmen will again examine sach car and see that brakes release before glying the signal to start the train. Conductors must inform engineer how many cars of empty in the train, and how many cars of "alt" are working.

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

unnel to Skykomish.

Trains are operated between a block post, 125 feet west of the east crossover switch Cascade Tunnel and the safety switch west and 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 engineman and the engineman of 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 cast 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.

Secondards leasted 1200 feet was described to the holy one train is a control of the passing track unless signalled to do so by the Tunnel conductor.

Scanning 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 cast from

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

NITIAL STATIONS.

Leavenworth for trains Nos. 1, 25, 27, 43, 401 and 411. Everett Jct. for trains Nos. 2, 26, 28, 44 and 286. Skykonish for trains Nos. 285 and 715.

Snohemish for Nos. 297 727, 731. Lowell for Nos. 300 730, 732. Delta for train 402.

TERMINAL STATIONS. Leavenworth for Nos. 2, 26, 28, 44 and 402. Skykomish for train No. 286 Everett Jet. for trains 1, 25, 27, 43 and 285.

Lowell for Nos. 297, 727, 731. Suchomish 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 cast passing track lead, 30 feet from main line. Tye, west end Industry track. Tye Salety Switch, 70 feet west of station, on main line. Sconic 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.

Everett 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	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 14
Breat Republic Mining Co., Berlin	1.5 Miles west of Skykomish	West		14
Grotto Lumber Co	0.3 Miles east of Grotto	East	1200 feet	25
J. N. Shingle Co.'s Siding	3.5 Miles west of Grotto	Both ends		25 24 22
Saring	1.4 Miles east of Halford	Both ends	1275 feet	22
faybrook Spur	2.0 Miles east of Index	West		- 6
Dysart Spur	1.5 Miles east of Index	East		2
mith Lumber Co	0.5 Miles east of Index	East		12
oderburg Spur	0.7 Miles west of Index	West		10 26
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
Johnauist 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	Opens off Monroe Gravel Pit Track.	West		25
Woodruff	2.0 Miles west of Monroe	Both ends		25 24
Summer Iron Works Spur	0.9 Miles east of Pacific Ave	West	1	15
Everett Power House Spur	0.1 Miles west of Everett	West		10

LOC	ATION	1 0	TUI	NNELS.					
7	<b>Funnel</b>			13,873	feet	long	height	19.5.	between Tye and Cascade Tunnel
	**	**	13.1,	1,202	**	**	4	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	**	**	**	22.	Everett, Wash.

		FIRST	CLASS			Time Table No. 00	t		SECONE	CLASS	CLASS
300	44	2	286	26	28	Time Table No. 90. In Effect November 28, 1915.	from	SIGNS	402	730 (N. P. 670)	732
Passenger	Passenger	Pass tager	Passenger	Passenger.	Express		Labore La	See Rule 5, Page 15.	Past Freight	Freight	Freight
Daily	Daily	Duly	D sly Ex Sunday	Daily	Daily	STATIONS.	Delta		Daily	Daily Ex. Mairley	Daily Ex Monday
	Ars 3.354m	Ars 1 40km		A. 3.20m	Ars 6.00Mm	LEAVENWORTH	109.5	R# DN WCTYOP	4 7.00m		
	3.15	1.21		3.02	5.40	DRURY	103.2	DN P	6.25		
	3.00	1.10		1 2.49	5.27	เหมพริบัหนด	99 0	DN W P	6 10		
	2.50	1.04		1 2.43	5.20	winton g	94.5	DN P	5.55		
	2.39	12.52		1 2 35	5.08	NASON CREEK.	92.0	DN P	5.22		
	2.33	12.44		1 2.29	5.00	MERRITT	89.0	DN W Y P	4.50		
	2.22	12.32		220	4.49	GAYNOR	54.6	DN P	4.25		
	2.13	12.24		2.11	440		51.5	DN W P	4.10		
	± 2.00	*12.12h		2.00	4 4 2 5	CASCADE TUNNELL	-		3.45		
	1 2.00 1 1.38				+ 4.25 + 4.05		77.2	DN W T P			
-		*11.55		1.43		TYE CO	73.6	• DN WC P	2.20		
	121	11.37		f 1.28 402-401 1.18	3.48	EMBRO	70.0	DN W P	29-101		
	1.11	1126		1.18	3.38	COREA	67.3	DN P	1.18		
	• 100	*11.15		1 1 07	* 3.27	scenic	64.3	DN W P	12 25h		
	1944	10.59		11251	311	ALPINE	61.2	DN W P	11 30		
	19 39	10 47		12 38	2.58	TONGA	57.7	DN P	10.55		
	-1818	1883	41 7.40mm	1338	. 338 27	SKYKOMISH	52 5	RB DN WC Y P	10.10		
	19014	10.16	1 7.30	12.05m	2 20	OROTTO	15.1	P	9.00		
	11.50	1000	+ 7:18	11.64	2.09	HALFORD	13.4	D W P	8.30		
	11.38	9.53	+ 7.03	11.42	1.56	ınbik	35.3	DN P	715 8.00		
	1125	9.41	1 648	1125	1.42	neirla	33.7	w	7.30		-
	11.17	9.33	1 6.39	11.18	1.34	GOLD BAR	29.5	DN Y P			
	11.13	9.29	1 6.32	11.14	1.29	STARTUP	27.1		7.00		
	11.07	9.23	1 625	s11.09	1.23	SULTAN	23.7	D P	6.08		
	10.52	. 9.07	1-401 • 6.10	110.53	* 1.10	MONROE	16.2	DN W Y			
1-10m	110.37	1 8 52	* 5.55	11 0.38	112.54	SNOHOMISH	-		5.35		
1-00fm	10.26				112.64	LOWELL	9.3		5.10	Ar 1-35An	u 710
1-00/10		8.41	1 5.37	10.26		PACIFIC AVENUE	3.6		4.55	Lr 1-15An	Lv 650
-	10.23	8.38	1 5.34	10.23	12.40		1.9	DN F	<b></b>		
	10.20	• 8.35	■ 5.30	*10.20	12.36	EVERETT	0.8	К 1	·		
	Lv 10.15fm	Lv 8.30m	Lv 5.20m	Lv 10.15Am	Lv 12.30ks	EVERETT JCT	0.0	R DN F	·		
			Della			Via N. P. Ry.	_	RS DN WCTYO	Lv 4.304s		
Duity	Daily	Duly	Es Sunday	Daily	Daily				Daily	Daily Ex. Monday	Es. Mond
300	44	2	286	26	28				402	730	732
34.8	20.8	21.2	22.10	4.55	5.30	Time Over District Average Speed Per Hour	1		14.30 8.1	17.4	17.4

EAST BOUND.

draw span; derails are located 55 feet in advance of home signals.

THIRD CLASS	SECOND CLASS	Capac	eity									FIRE				ESI BOL	
717	717 401 Tricks gig in Effect		Time Table No. 90		4	27	257	-			CLASS						
Man Portar		- x.		53	In Effect Nevember 28, 1915		2	27	357	25	277	285	359	273	1	355	43
Daily Ex Sunday	Fast Freight	- 23	10	nten	STATIONS	_	5	Fast Mail	Passenger	Passenger	Passenger	Passenger	Passenger	Passager	Parente	Premier	Port
	Daily	AF.	45	Die.			ř	Daily	Deily	Daily	Ex Sunday	Daily Es Sunday	Daily	Daily La Busin	Date:	Date	Di
Lv 1.15An	Lv 2.304e		_		EVERETT JUNCTION		JN	L. 4.304	L 6.45M	Lv 7.054	L. 9 354s	L= 11.00m	L+ 2 25tm	L- 6.25M	L- 6 50t.	8 20t	1 0
1.35	2.45		110	3.4	MUKILTEO		MU	4.37	1 6.54	7.12	9.43	/11.08	2.31	• 634	6.57	8 27	-
1.50	2.55			7.9	MOSHER			4.44	1 7.02	7.19	1 9 50	111.16	2.37	1 6 12	7.04		100
2.05	3.05		6	10.9	MEADOWDALE	DO	AD	4.50	1 7.08	725	1 9.56	11122	2.42	1 6 48	- Andrews	8.33	100
248	3.25		101	16.8	EDMONDS	BL	DR	4.58	. 7.18	7.32	*10.05	11129	2 48	. 6.58	710	8.38	10
3.35	3.35		57	17.5	RICHMOND BEACH	ET	n	5.04	17.26	7.38	*10.12	111.36	2 53	7.06	717	8.45	102
4.15	4.15		194	26.9	BALLARD	RAC	BD	5.20	1 7.45	7.54	110.31	111.53	3.08		7.93	8 51	101
Ar 4.30ha	Ar 4.30An	205	633	25.0	INTERBAY	?	RB	5.25	1 7 50	7.59	10.39	111.58	3.12	. 7.25	7.39	9.08	10.4
			285	29.3			z		1 100	1.07	*10.39	111.06	3.12	. 7.30	7.44	9.12	104
			543	32.7	SEATTLE		UD	s 5 45Am	' 8.05Am	Ars 8.154m	\rs10.55 <b>k</b> n	M+12.15h	1 3.30h	N1 7 458	• B.OO%	u 9 30h	
					SEATTLE	VI.		6.00km	11.15An				3.45m		8 35to		
			163	72.9	TACOMA	Z		As 7.05kg	112.35h				• 588			10 45h	
				216 5	PORTLAND	8			41 5.55An						V+10 00%		
Daily Ex. Sunday	Daily							Daily	Daily	Daily	Daily Ex. Sunday	Daily Ex. Sunday	Ars10.00m	Daily		4+ 6 00m	
717	401						_	27	357	25	Ez. Sunday		Daily	E. Funds,	Daily	Daily	Dail
3.15 8.6	2.00 14.0	-	-		Time Over District Average Speed Per Hour			0.00				285	359	273	1	355	43
	14.0				Average Speed Par Hour			1.15 26.1	1.20 24.6	1 10 26 2	1.20 21.6	26.1	30.2	21.70	28.2	1 10 25 2	1.1

#### 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. 357 meets No. 360.

No. 25 meets No. 360. No. 277 meets Nos. 26 and 718. No. 359 passes No. 717.

No. 717 meets No. 286. No. 285 meets Nos. 270 and 718. No. 273 meets Nos. 278 and 2.

No. 1 meets No. 2.

No. 355 meets Nos. 2 and 44

No. 35 meets Nos. 2 and 4s.

No. 43 meets Nos. 4 and 402.

No. 25 passes No. 718 on double track between Everett Junction and Seattle.

Bulletin boards are located at Interbay and Seattle.

All trains will reduce speed to 5 miles per hour passing through town limits of Edmonds.

Ballard, Edmonds and Mukilteo are figs stops for No. 26 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.

Taking 1 and 2 will stop at stations between Tacoma and Seattle to nick up or let off passengers for or from points expressed. Trains I 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 ret on 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.

Sat 116 for trains Nos. 360, 26, 270, 358, 286, 278, 2, 44, 28, 356.

Interbay for trains Nos. 718, 402.

Everett Jct. for trains Nos. 27, 357, 25, 285, 277, 273, 359, 1, 355, 43, 401, 717.

#### TERMINAL STATIONS.

RMINAL STATIONS. Interbay for trains Nos. 401 and 717. Beattle for trains Nos. 27, 357, 25, 285, 277, 359, 273, 1, 355, 43. Everett Jct. for trains Nos. 360, 26, 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 55 feet in advance of Home Signal.

East bound derail is located 32 tect in advance or nome sugars.

West bound derail is located 230 (set East of crossing.

East bound Distant Signal is located 3000 (set 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 Shoul 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 ern Pacific switch lock.

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

NAME	LOCATION	OPENS	LENGTH	CAR CAPACITY
Musuice Lumeer Co.  Masser-Mowatt Lumber Co. Spur.  Brown Bay Logging Co. Connection.  Invincible Railjoint Spur.  Shipyard Spur.  Standard Oil Co. Spur.  J. N. Clay Co. Spur.	1 7 miles west of Everett Jet 2.1 miles east of Mukilteo. 1 mile east of Meadowdale. 0.5 miles west of Meadowdale 0.4 miles west of Edmonds. 1.5 miles west of Edmonds. 1.0 east of Richmond Beach 4.2 miles west of Richmond Beach 1.6 miles east of Ballard	East East East West West West East West	1200 2185	8 24 46 10 43

#### LOCATION OF TUNNELS.

Tunnel No. 17, 5,141 5 feet long, height 22 feet, Scattle, Wash.

ST		

## SECOND DISTRICT-EVERETT JUNCTION TO SEATTLE.

		,		FIRST	CLASS					Time Table No. 90			SECOND CLAS	SS THIRD CLASS
356	28	44	2	278	358	286	270	26	360	In Effect November 21, 1915		SIGNS	402	718
Famonger	Espress	Passenger	Passenger	Passenger	Passonger	Passenger	Passenger	Passenger	Passenger		t a su	See Rule 5, Page 15.	B. C. D. Cale	
Dully	Daily	Daily	Daity	Duly Ex Sunday	Daily	Daily Ex. Sunday	Daily Ex Sunday	Daily	Daily	STATIONS	Detan		Past Freight Dady	Mder 1 r ight
1.05ks	W 12-30m	Ar 10.16hs	1	₩ 6.47Pm	Ar 5.35m		1	Ar 10.154m	₩ 9.16km	C EVERETT JUNCTION				E.s. Sunday
12.55	1223	10.09		s 6.40	5.28	1 5.11	112.18	10.08					U 12.10ka	Ar 11.25ke
112.45	12.16	10.02	8.16	1 6.31					• 9.08	MUKILTEO	28.9	P	11.55	11.10
					5.22	f 5.01	12.11	10.02	1 8.59	MOSHER	24.6		11.40	1030
112.37	12:11	9.57	8-11	1 6.24	5.17	1 4.55	112.05hn	9.57	1 8.51	MEADOWDALE	21 8	D P	11.30	1010
12.29	12.04An	9.51	8.05	■ 6.16	5.11	1 4.47	<b>\$11.58</b>	9.50	8.43	EDMONDS	17.9	DW P	11.20	9.50
112.20	11.58	9.46	8.00	ı 6.09	5.04	4.38	<b>*11.50</b>	9.44	. 8.33	RICHMUND BEACH	14.9	D P	11.05	
•12.03km	11.44	9.33	7.47	▶ 5.50	4.52	1 4.19	11.34	9.32	. 8.17	BALLARD	5.8	D		9.10
<b>11.59</b>	11.40	9.29	7.44	s 5.45	4.49	1 4.15	11.30	9.29	. 8.14	INTERBAY			10-35	8.40
									. 0.14	1.1	4.7	R& DNWCTO PK	Ly 10.30hm	1.v 8.30An
11.45m	11.25m	9.15h	7.30h	Lr 5.30ha	4.35m	4.000				G. N. DOCK	3.4			
				* 0.30m		¥ 4.00m	Lv 11.15An	9.15kg		SEÄTTLE	.0	R DN 1PK		
10.00			∍ 7.10Mm		3.00				• 7.30As	SEATTLE	183.1			
	Lv 9.45ha		Lv 5.45hm		. 2.55mm				. 888	Z TACOMA	142.4			
6.00fm					l.v 10.00km				Lv 12 30A	PORTLAND.	.0			
Daily	Daily	Daily	Daily	Daily Ex. Sunday	Daily	Daily Ex. Sunday	Daily Ex Souda:	Daily	Daily				Daily	D.dy
356	28	44	2	278	358	286	270	26	360				402	Ev Sanday
24.6	1.05 30.1	1 00 32 7	1.00 32.7	25 4	1 00 32.7	1.20 24.6	1.10 28.2	1.00 32.7	1 16 25 7	Time Over District Average Speed For Hour				718
				-				42.1	25.7	Average Speed Per Hour	1		10.6	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 fity-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 CLASS		SECONI	CLASS		Cap	Side		Time Table No. 90					F	IRST CLAS	5
	717	713	711	729	401	Tr	acks	an a	In Effect Nevember 28, 1915	S.	357	277	359	299	273	355
	Mdee . Freight	Mdse . Freight	Fast Freight	N. P. 676 Freight	Fast Freight	Tuju	1.3	ngha		graph	Passenger	Parentet	Patenger	N. P. 112 Fara 10 f	Parametr	Pare as 7
	Daily Ex Sunday	Daily Ex Sunday	Daily	Daily Ex Sunday	Daily	Pres	Other	Dist	STATIONS	Tele	Daily	Ex Sonds	Duly	Daily	Dist.	
			L= 5.30Am			119	110	0.0	BELLINGHAM	нм	L 3.20M	Lv 6.50Am	1. 12.20fa		Lr 3.45Pm	
1			6.00			40	113	2.9	SOUTH BELLINGHAM	LN	1 3.33	1 7.03	12.31		* -1.00	· 621
_			6.28			51	16	6.9	sockeye		1 3.50	1 7.11	1239		f 4.10	6.28
			6.50			64	8	12.5	SAMISH		1 4.05	1 7.22	12.52		1 4.24	6.36
							8	13.2	BLANCHARD			1 725			, 428	
1			7.09			62	16	16.6	3 t BOW	во	s 4.15	. 7.32	12.58		. 4.34	642
!			7.30				6	21.2	BELLEVILLE	BV	1 4 2 5	. 7.40	1 04		. 441	6.48
l		In 11.30Am	8.47	1		63	239	23.8	BURLINGTON	BU	4 4 4 0	1 7.52	1.10		+ 4 50	. 658
		12.05fm	9.05			37	63	27.9	MT. VERNON	NR	4.55	+ 8.03	1 20		. 5.00	* 7.07
		12.40	9.25			61	13	33.3		FR	. 5.10	. 8.14	1 30		. 5.10	7.17
				1		Г	6	35.0	MILLTOWN			. 8.18			• 5.13	
		1.40	9.50			61	48	40.4	STANWOOD.	В	. 5.30	. 8.30	270-713 1.40		. 525	7.28
		2.20	10.20			70	13	45.9	SILVANA	. NA	. 5.50	· 8.44	1.49		s 5.35	7.37
		2.45	11.00			62	17	50 0	ENGLISH.		1 6.00	1 8.55	1.56		1 543	7.45
		300	11.20	L= 11 00fm				53.6	KRÜSE	K	6.06	1 9 02	2 00	L 12 30m	5 48	7.50
		3.40	11.35	11.12		60	8G	57.0	MARYSVILLE	. Ms	1 615	* 9.10	2.05	12 37	. 5.56	7.55
-	Le 12.50Pm	Ar 4.00m	Ar 11.50m	\r 11 25₱m	Lv 2.05/a			59.7	DELTA WYE	wr	6.23	s 9.18	2.11	₩ 12 445	6.05	801
	12.55				2.10	41		60.7	LONG SIDING		6.27	9.22	2.14		6.09	8.04
	1.05				220	110	150	63 3	EVERETT		1 6.42	. 9.30	. 223		1 6.23	* 8.15
	Ar 1.15ha				Ar 2.30An			61.1	EVERETY JUNCTION	. IN	v 6.45km	u 9.35km	V 2.25%		u 6.25fm	M B 20fa
	Daily Ex Sunday	Dully Ex. Sunday	Daily	Daiy Lx Sunday	Daily						D.ity	E. Sunday	Daily	Daily	1 Duly	Date
	717	713	711	729	401						357	277	359	299	273	355
	0 25 10 8	4.30	6.20 9.4	15 0	10.6	Г			Time Over District Average Speed Per Hour	-	1 27	23 15	2.03	27.0	27 49	2 11

## At Kruse all Northern Pacific trains will enter and leave Great Northern track

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

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

Bulletin boards are located at Burlington and Bellingham

through cross-over.

All trains will reduce speed to 8 miles per hour over all draw bridges and Interlock-

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 (d) 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 thir I 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.

#### 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

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

Semanhore 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 beards 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 Interlockling 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 fer 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 scuth 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 process

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 of feet south of was switch and by two arm home signal located on tiestle 566 feet south of draw spon.

Train movements from Delta to Vancouver will be governed by top arm on two arm home signal located 60 fact on t of wire switch, and by two arm home signal

bloade on trestle 500 feet south of draw span.

Trains between Delta and Bryside will be governed by bottom blade on two blade soundplove located 00 feet as of we switch.

Trains north bound from Nerthern Pacific coancetion to Great Northern main line governed by layer arm on Henre Swand 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 leaver arm on Home Signal 700 feet North of draw pan.

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

Interlocking system in use bridge 10, 11 and 12 between Delta and Marysville and at Shagit R. R. Crossing one mile south of I'm.

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

Interlocking Plant at crossing of Pacific Northwest Traction Company jet though of Ludington. Home signals are located 20s feet north and south of crossing. De-rails are located 65 feet in ide of home signals. No distant signals in connection with this Interlocking Plant

	,	FIRST	CLASS			Time Table No. 90			s	ECOND CLA	55		THIRD CLASS
278	298	358	270	360	356	In Effect November 28, 1915	from	SIGNS	728	712	402	714	718
Passenger	N. P. 441 Passenger	Passenger	Passenger	Pamenger	Passenger		Distance f	Sec Rule 5, Page 1	8. N. P. 675 Freight	Fast Freight	Fast Freight	Mder Freight	Mdse Freight
Es Bunday	Daily	Daily	Daily Ex Sunday	Daily	Daily	STATIONS	ŽÃ.		Daily Ex Sunday	Daily	Daily	Daily Ex Sunday	Daily
9.45m		Ars 7.50m	Arl 3.15mm	Are1 2.20m	Ars 4.10Am	BELLINGHAM	64.1	R. DN CWTK	Р	A 8.35Ma	İ	Liteumary	E3 Sunday
• 9.30		• 7.35	▲ 3.00	*12.05fm	s 4.00	SOUTH BELLINGHAM	61.2	D OW	Р	8.20			
1 9.22		7.27	2.52	111.55	1 3.50	SOCKEYE	57.2		P	8.05			-
1 9.10		7.15	2.40	11.41	3.30	SAMISH	51.6	w	P	7.50			-
1 9.08				<b>11.37</b>		BLANCHARD	50.9		P				
9.02		7.09	2.33	<b>11.30</b>	1 3.20		47.5	D	P	7.32			
1 8.53		7.00	2.25	•11.19	1 3.10	BELLÉVILLE	42.9		Р	7.10			
• 8.47		* 6.55	■ 2.20	41 1.13	a 3.00	BURLINGTON	40.3	R DNCOWYX	Р	7.00		Ar 11.30ka	
8.35		1 6.42	4 2.07	41 1.00	. 2.45	MT. VERNON	36.2	DN .	P	6.10		360 1 1.00	-
. 8.20		6.33	1.55	*10.41	• 2.30		30.8	D	P	5.55		10.10	
. 8.15			f 1.50	*10.35		MILL FOWN	29.1					10:10	
. 8.05		6.23	* 1.40	10.26	. 2.15	STANWOOD	23.7	DN	,	357 5.30		9.40	
• 7.65		6.14	• 1.25	*10.12	• 2.00	SILVANA	15.2	D W	P	5.05		277 8.44	
1720		6.07	1.15	f10.01	1 1.49	ENOLISH	14.1		P	4.50		8 05	
1 7 39	Ar 6 96h	6-01	1.07	9.53	1.40	KRUSE	10.5	R DN	4 2.15Am	4 30		745	
. 740	6.19	8.86	• 1.00	9.48	1.34	MARYSVILLE	7.1	DN	203				
7.10	. 5.19h	8.60	12.50	9.38	1.23	DELTA WYE				4.15		7.30	
7.07		0.47	19.40	9.35	1.20	LONG SIDING	3.4		1 1 0 0 MI	L+ 4.00ks		L+ 7.00km	Ar 11.50An
. 7.00		. 549	12.35	· 9.30	* 1.15	EVERETT	0.8		,		12.25		11.40
6.47m		L+ 5.35M	L+ 12.25m	L 9.164	Lr 1.054s	EVERETT JUNCTION					12.15		11.30
Es Sunday	Daily	Daily	Daily Ex. Sunday	Daily	Daily				Daily Ex. Sunday	Daily	Daily	Daily Es Sunday	Daily Ex. Sunday
278	298	358	270	360	356				728	712	402	714	718
2.55	27.0	2.15 28.5	2.50 22.8	3.04	3.05 21.0	Time Over District Average Speed Per Hour			15 0	4.35	9.0	4.30	0.25

#### INITIAL STATIONS.

Blaine for trains Nos. 711 and 720. Builtuston for train No. 713 Delta We, for trains Nos. 208, 728, 712, 714, 717, 401. Everett Jet., for trains Nos. 270, 358, 360, 356, 278, 718 d 402.

d 402.
Fraser River Jct., for trains Nos 3% and 398.
New Westminster, for trains 102, 104.
Sapperton, for train No. 385.
Vancouver, for trains Nos. 359, 355, 257, 397, 101, 103, 719.
Bellingham, for train No. 277, 273.
Krure, for trains 299, 729.

#### TERMINAL STATIONS.

Blaine for trains Nos. 712 and 719.
Burlington, for train No. 711.
Delta Wye, for trains Nos. 299, 729, 711, 713, 718, 402.
Everett Jct., for trains Nos. 359, 355, 273, 357, 277, 401
an. 717.

J 717.
Fraser River Jet., for trains Nos. 385 and 397.
Sapperton, for train No. 386.
New Westimister, for trains 101, 103.
Vancouver, for trains Nos. 356, 358, 360, 398, 102, 104, 720.
Bellingham, for train No. 278. 270.
Kruze, for trains Nos. 298, 728

#### DERAIL SWITCHES.

Skapit Crossing, English Log Spur, Hayes Derail; Mt. Vernon Pacific N. W. Traction Co Transfer. Sockey, east end siding. Bollingham, B. & N. Transfer Track east end.

## Business tracks not shown as stations on time table.

NAME	LOCATION	OPENS	LENGTH	CAPACITY
Sound Shingle Co.'s Spur Hellville Pit Everett Pulp and Paper Co., Spur Blagit Crossing Tr. Track Blawley Spur Morrison Mill Spur Ketchum Spur Panifu Coast Condensed Mill Company.	0.7 Miles north of Socksye  0.5 Miles south of Samish  2.9 Miles north of Belleville.  1.5 Miles north of Belleville.  1.7 Miles north of Mr. Vernon.  0.9 Miles south of Fir  1.3 Miles south of Fir  2.1 Miles south of Fir  2.5 Miles north of Stanwood.  Stanwood opens off Industry track.	North North South North South South South South North South North South North South North South		38 3 30 6 80 5 6 8 4 37 2 4

#### Business tracks not shown as stations on time table

NAME	LOCATION	OPENS	LENGTH	CAPACITY
Daion Slough.  Old Main Line.  Transfer Track  Blackman Spur  Weidauer & Landsdown Spur  Neff's Spur.  Wheelihan Spur.  Cag Dump Spur  Clark Nickerson Mill  Everett Milling Co.	0.8 Miles north of Long Siding 0.4 Miles south of Long Siding 0.0 Miles south of Long Siding 1.0 Miles south of Long Siding 1.1 Miles north of Everett 1.1 Miles north of Everett 1.0 Miles north of Everett 0.7 Miles north of Everett	South North North South North North		4 6 30 14 7 20 50 7 21 31 26 4

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

LOCATION OF TUNNELS.

Tunnel No. 20, 326.5 feet long, height 20.9, .43 miles south Sockeye. 421, 697.6 " " 21. .32 " " South Bellingham.

#### SOUTH BOUND.

#### THIRD DISTRICT-VANCOUVER TO BELLINGHAM.

THIRD CLA	ss		SECON	D CLASS		Capacit of Side	2		Time Table No. 90					FIRST CLASS	
	719	711	385	397	103	Tracks		Loom .	In Effect Nevember 28, 1915	S III	357	101	359	355	
	Midse Freight	Fast Freight	Missel	Mised	C N P Ry 202 Treise1	74 t	1	COUNT		der	Passenger	C N P R: 2	Passenger	Passenger	
	Duily	Daily	Duly Ex Sonday	Daily Ex Sunday	Tues. Tiurs	14 8	4 2	28	STATIONS	ř	Daily	Sue, Wed	Daily	Daily	
	L+ 7.30km			L+ 2.00h	L. 900m	31 3	19	0.0	VANCOUVER	VN	L+ 12.30An	L= 900m	L 10.00ks	4.00fm	
	7.35			2.05	905			0.7	0.7 WYE		12.35	904	10.04	720 4.04	
	7.50			1 2 1 3	915	i_		3.5	STILL CREEK		112.42	911	10.11	4.11	
	8.00			1 2.17	9 2 2			5.3	ARDLEY		112.47	916	10.16	4.16	
	8.10			1 224	9 30		35	7.9	BURNABY		112.53	922	1022	4 22	
								12.9	SAPPERTON WYE						
	8-40		lv 12.55m	· 2.42	9.50	27	55	13.1	SAPPERTON		1.03	9 3 1	10.30	4.30	
	8.50		A 1.00	1 2.45	Ar 9.554	1	17	13.8	NEW WESTMINSTER	MN	1.10	1. 9 35km	s10.35	102-104 4 4 35	
	8.55		tr 1.10mm	Ar 2 5 0 Pa				14.2	FRASER RIVER JCT.,		1.15		10.40	4.40	
	9.10					51	4 5	19:4	TOWNSEND		1 1.25		110.49	4.48	
	940					55	59	21.5	COLEBROOK	G	1.35		s11.00	1 4.58	
	9.50						10	25.1	CRESCENT		1 1.43		11.08	5.06	
	10.30					70	22	33.2	WHITE ROCK	WR	1 2.00		11.19	. 5.17	
								36.2	INTERNATIONAL BOUNDARY				- N. S.		
	Ar 11.004s	Lr 3.20fm				62 1	124	36.7	BLAINE	BN	. 2.20		*11.35	. 5.30	
		3.50				70	35	11.2	CUSTER	cu	. 240		11.48	5.42	
							6	46.9	ENTERPRISE		1 246		111.53		
		4.15				70	23	49.5	FERNDALE	FD	. 2.55		≥12.01ħn	. 5.51	
							34	52 0	BRENNAN		3.00		112.06		
		r 5.COM				119	110	58.5	BELLINGHAM	ны	Ars 3.154a		Ars1 2.20m	Ars 6.07m	
	Dail/	Daily	Daily Ex. bunday	Daily Ex. Funday	Tues, Trurs						Daily	Sem. W-L.	Dully	Doily	
	719	711	385	397	103						357	101	359	355	
	3 0 10 0	1.10	1.15	15 d	11 2				Time Over District Average Speed Par Hour		2.45	22 9	2 70	2 07 27 8	

#### Special Rules.

#### South bound trains are superlor 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.

Train 355 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 dea whidges and win speed of six raines per nour over this Bridge. All trains win reduce speed to 8 miles per nour over the Bright 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 will 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. Custer will be flag stop for 355 for passengers for south of Scattle.

Tack I) ag to the north of crossover between roundhouse and depot, Bellingham will be known as passing track.

The normal position of switches at Colebrook Junction, Gunchon Line Junction and Fraser River Junction will be for main line.

Semaphores for protection of draw on Fraser River Funds are River Junction and New Westminater 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 cither 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 Frascr 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 Pracer 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 Fra-er River Bridge tracks and New Westminster. Distant Semaphores are located 1,200 feet south anorth 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 details are located 600 feet north and south of both bridges. The caution fixed signals are located 3000 feet from home signals. All signals have stan-

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

Interlocking plant at Ardley, B. C., governing movement of G. N. By, trains and B. C., Electric Railway Company trains; Northbound home signal is located 558 feet from crossing and has two arms. Derail 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. Derail is 58 feet thead of signal. Southbound distant signal is located 2000 feet from home signal and is automatic. Both home signals on B. C., Ele tric line are located 558 feet from crossing and have two arms, with derails 58 feet head of signals. Distant signal is located 2500 feet from home signals and the normal position is 45 degrees. Distances eignals work from 15 to 50 degrees from tower with line control and can only be cleared to the 90 degree position after home signal is cleared to 50 degrees. All signals are standard upper quadrant.

# THIRD DISTRICT-VANCOUVER TO BELLINGHAM.

NORTH	BOUND.	0
	DUCIND.	

358 102 360 356				Time Table No. 90					SECON	D CLASS		THIRD CLASS		
	358		360	356	In Effect November 28, 1915	15	10 11	SIGNS	398	386	712	104	720	
	Passeager		Passenger	Passenger		da	agha agha	S.: Rule 5, Page 18.	biville	Mixed	Fast Freight	C 2 5 5 10 10		
	Daily	Man, Wed.	Daily	Daily:	STATIONS	15	Belb		Et Sunday			Mark d.	Dals	
	Ars10.168	1/4 5 30fm	Ars 3.30M	Ars 7.304s		VN	55.5	REDNWC OP		10000000		6 00fa		
	10.05	5 25	3.20	7.15			45.1	Y	11 20		-	5 50	4: 4.10Fa 455 4.04	
	9.59	516	1 3.12	1 7.07	1 STILL CHEEK		25 3	Р				5 40		
-	9.55	611	1 3.07	1 7.02	ARDLEY		51.5	P					3.50	
	9.49	5 0 5	1 2.59	1 6.55	BURNABY		10.9	P				5 3 3	3.15	
					SAPPERTON WYE		15.9	W Y P		-		525	335	
	9.37	4 5 3	1 2.42	1 6.44	SAPPERTON		15.7		10.47	V=11 164s				
<u> </u>	1 9.34	L. 450m	. 240	■ 6.42	NEW WESTMINSTER	MN	45.0	R DN I PR				5 09 L 5 05Pm	3.15	
	9.26		2.30	6.35	FRASER RIVER JCT		11.4			+11.10 L= 11.05Am		5 05Pm	2.55	
	1 9.17		1 2.20	1 6.25	1.2		39.4	p	10.404	LV 11 05A	-		250	
	1 9.07		. 2.10	. 6.12	COLÉBROOK	g .	-	R DN W Y P					2.35	
	* 8.57		1 202	f 6.00	CRESCENT		30.1	BAN IF	-				2.10	
	s 8.45		. 1.50	* 5.50	white Rock	WR	25.6	DN P					1.45	
					INTERNATIONAL BOUNDARY			ри Р					1 25	
	. 8.30		. 1.25	. 5.15	BLAINE	BN	22 6							
	. 8.15		1.05	. 4.54	coster	cu	_	R DN W T OP		-	Ar 10.254s		L 12 40hn	
	1 809		112.55	1 4.46	ENTERPRISE		-11.6	D P			10.05			
	a 8.05		•12.47	. 440	FERNDALE		11.9							
	1 800	10.3	112.40	429	BRENNAN	FD	9.0	D P			9.40			
	Lv 7.50h		La 12.26h		BELLINGHAM		6.5							
	Daily	Mon., Wed.	Daily	Daily		нм	0.0	R DN WC T PK	Dady	Daily	L 9.00An			
	358	102	360	356					Es. Sunday	Ex Sunday	Daily	Mon Will.	Daly	
	24.25	20 90	2 55 20.2	3 15 17 8	Time Over District				398	386	712	104	720	
	1 21	1 21 4	20.1	17.8	Time Over District Average Speed Per Hour				18 1	4.6	15 8	15.2	10 5	

## Business tracks not shown as stations on time table.

NAME	LOCATION	OPENS	Leagth	Car Capa- city
Maddoughs-Shaw Spur	0.7 Miles north of Ardley	South	1	5
Ardley Power Spur	0.3 Miles south of Ardley	South		9
		North		4
Mill No. 2 Spur	0.7 Miles south of Burnaby	South		22
Lozells	3.0 Miles north of Sapperton.	Bouth		8
Haight Spur		South	450	8
Bradley and Taylor.	1.5 Miles north of Sapperton.	South		2
Dand Fit Opur	0.7 Miles north of Sapperton	South		18
Distillery Spur	0.0 Miles north of Sapperton	South		31
Delta Shingle Co. Spur	O & Miles south of Townson	North		ĭi
Mosher Lumber & Logging Spur	2.2 Miles south of Townsend.	South	630	13
Campbell Lumber Co. Spur	1.0 Miles south of Whiterock.	South	2450	36
	1.9 Miles south of Blaine	South		
Blaine Shingle Co.'s Spur	2.0 Miles south of Blains	CL		. 0
City Dock Spur (off Passing Tracks)	0 0 Blains	South		81
North Bluff Mill Spur (off City Dock Snur)	0.0 Blains	South		6
Darge Opur (on City Lock Apur)	0.0 Blaine	South		Ä
Drayton Bay Shingle Spur	400 ft south of Dising	North		1
McDonald Spur	1.2 Miles porth of Custer	South		* 0
Enterprise Spur	0.7 Miles porth of Paternales	South		
Sand Pit Hour	0.8 Miles south of Potamoias	South		13
Mank opur	0.3 Miles south of Forndale	South		10
Demy Opur	1.0 Miles south of Desenses	South		2
Marietta Spur	3.3 Miles north of Ballingham	Bouth		5

10	WEST	BOUND.
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#### FOURTH DISTRICT-ANACORTES TO ROCKPORT.

	EA:	ST	во	U	ND
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THIRD	CLASS			FIRST	CLASS			Caps of 8	elty		Time Table No. 00					F	IRST CLASS			т	HIRD CLASS
723	725	283	293	291	289	295	279	Tra	eks	<b>5</b>	Time Table No. 90	100	rom	SIGNS	290	280	292	294	284	726	724
	Mdse Freight	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	7.5		port		dara	ante	See Rule 5, Page 18	Passenger	Passenger	Passenger	Passenger	Parent	March 1 misler	Alder Teast
	Daily Ex. Sunday	Daily		Daily Ex. Sunday	Daily Ex. Sunday	Sunday only	Daily Ex. Sunday	Pass	Other	Rock	STATIONS	Tele	Ann		Daily Ex Sunday	Daily	Duly Fy Sunday	Daily	Daily	E. Suelte	E. Santa
	Ex. Sunday				724 4.45m	Lv 9.40km	Lr 615km	30	T		ROCKPORT	RK	53.7	R D Y W	1.30m	41 8.50m					4 4 4 0Pm
6.30km					1 5.00	1 9 53	1 628	16		5.6	PABER		47.9		1 1.12	1 8 35					4 10
6.50					s 5.10	10.03	• 6.38		83	9.1	CONCRETE	BA	44.6	D	1 100	. 827					3 30
7.40					f 5.14	110.06	1 641	39		10.2	ORASSMERE		43.5	w	112.50	1 8 19					240
8.15							. 6.53	41	-	15.5	BIRDSVIEW		38.2		12.38	. 8.07					215
8.45					. 5.26	*10.17	1 7.04	35		20.6	HAMILTON	н	33.1	D W	1225	1 7 55					1.40
9.15			_		1 5.38	10.28		33	25	23.9	LYMAN	му	29 5		*12.15Am	. 7.46					1 10
9.35					1 5 48	10.37	• 7.12	-	2.5	29.2	COKEDALE JUNCTION		24.3		(11.58	1 7.34					1240
9.55					1 6.00	(10.47	1 7.21 1 7.26 1 7.30	21	-		SEDRO-WOOLLEY	WL		R D	111.50	. 7.26				7 30m	1225
10.15	Lr 8.30km		_		1 6.11	*10.57		42	63	32.4	SEDRO-WOOLLEY		19.0		/11.38	1 7.17					
					1 6.17	111.02	1 7.35	-	-	34.7	2.5	-		R DN CO WYX			11. 7.45kg	Ars1 0.554m	V1 6.25h	7:13	L 1201Pm
10.40km	1 0.55294	L+ 7.10fm	Lr 11.30Am	Lv 8.35km	us 6.30hn	Ars11.10An	Ars 7.45ks	63	-	37.2	2.8	BU	-		11.50	7.101	1 7.36	10.46	1 6.14	600	
	11.10	• 7.18	•11.38	8.43				-	16	40.0	2.6	-	13 7				1 7.30	110.40	1 6.07	545	
	11.20	1 7.25	f11.45	1 8.51				+-	7	42.6		-	11 1				-	10.35	1 600	5 35	
	11.35	• 7.32	*11.52	■ 9.00				╀	17	44.1	whitney	-	9.6			-	1 720	110.50	1 000		
								+	-	46.3		-	7.4		-	-		(1021	1 546	515	
	11.59	1 7.48	f12.08fm	1 9.15				-	3	49 6		-	1.1			-	1 7.11	-	-	5 500kg	
	₩ 12.15m	Ars 8.00m	Ars12.20m	Ars 9.25km			Daily	1	235	53.7	ANACORTES	AC	_	R D T W	Daily	Daily	Daily Ex. Sunday	Daily	Dail	Dul.	Dul. Ev. Scotte
Daily Ex. Sunday	Daily Ex. Sunday	Daily	Daily	Ex. Sunday	Daily Es. Sunday		Ex. Sunday	1	-			-	-		Ex. Sunday	_	292	294	284	726	724
723	725	283	293	291	289	295	279	1	_			_	_		290	280		-			1.51
4.10 8.8	3 45	.50 19.5	19.5	19.5	1.45 21.3	1.30 24.8	1 30 24.8	1			Time Over District Average Speed Per Hour				2 00 18.6	22.3	22 0	22 0	19 5	8 5	5.0

#### 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, Duncaa Spur, Child's Spur, Minkler, Superior Ave., East Side, Van Hora 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

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 oupposing district.

Normal position of gates at crossing Puget Sound and Baker River Railway two miles east of Burlington will be clear for Great Northern trains. Not necessary to stop when gates are that and set against P. S. & B. R. Ry.

Yard limit boards are located at Anacortes, Burlington and Sedro-Wooley.

Interlocking Plant one half mile west of Sedro-Wooley at crossing of Pacific Northwest Traction Company. Distant signals are located 2000 feet cast and west of crossing and have one arm showing caution. Home signals are located 208 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 5 feet inside of home signals. There is no distant signal for westbound trains.

Anacortes for trains Nos. 292, 294, 284 and 725. Rockport for trains Nos. 279, 259, 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.

#### Business tracks not shown as stations on time table.

NAMB	LOCATION	OPENS	LENGTH	CAPACITY
	. 2.0 Miles west of Rockport	West		
Sauk Spur	0.3 Miles west of Faber	East		19
lower Mill Co		East		16
Van Horne's Spur		West		3
Harpet Lumber Co. Spur		East		30
Washington Port Cement Co		West		28
Superior Portland Cement Co. Spur		West		5
Burpee Shingle Spur		West		2
Anna Shingle Spur		West		25
Kirby Spur.		Trest.		15
Stearn's Spur	1.2 Miles west of Birdsview	East		60
Skagit River Log Spur	1 0 Miles cast of Hamilton	West		10
L. Spur	0.2 Miles west of Hamilton	West		3
Hop Ranch Spur	0.8 Miles east of Lyman	West		20
Skagit Mill Co. Spur	Lyman	West		-1
Duncan Spur	1.2 Miles cast of Cokedale			9
Minkler's Mill	3.0 Miles east of Cokedale Jct			
Corey Shingle Spur	5.0 Miles east of Sedro Woolley			22
Green Mill Spur	3.3 Miles east of Woolley	Both Ends		
Sound Iron Spur	Woolley	West	processes and	
Holbrook's Spur	0.4 Miles west of Woolley	West		
Sedro Veneer Spur	1.0 Miles east of Sterling	Fast		1 1
Burlington Mill Spur	0.6 Miles west of Burlington	West		
Fox Spur		East		
Callahan-Abbott Spur		West		. 6
		West		11
Gravel Pit Spur		East		2
Fidalgo Island Shingle Co. Spur		Both Ends		21
Log Rollway Fidalgo Mill Spur		East	1	. 4

	SECO	ND CLASS		Cap	Side			1	1	1			ND.	
387	387	397	397	Ť,	Side		Time Table No. 90	1				SECON	D CLASS	
Mixed	Mixed	Mized		١.,	1.	er fro	Effective Nevember 28, 1915	A Call	1	SIGNS	398	398	388	
Mon. Wed.		Tue, Thu	Mon, Wed	Panein	Other	Dietan	STATIONS	leg co	Distance	See Rule 5, Page 1	Mind	Mixed	Mised	
COLUMN TO A STATE OF THE PARTY	L. 5.304	and Sat.	and Fri.	1-	I	1		F	£3	J	Tu: , Thur,	Mon. Wrd.	Dialy Ex Senday	
7.00%	0.30%	-	-	-	_	0.0	The state of the s	SU	40.5	R D W C			Ars 5 458a	
		-	-	-	-	0.0	THE POOL BOOK BY		46.5					
• 7.02	5.32		-	26	3	0.1	HUNTINGDON		46.4	w			1 5 4 3	
• 7.15	• 7.15		-	37	31	3 6	ABBOTSFORD	FS	42.9	R D W				
a 7.30	• 7.30				7	8.1	PINEGROVE		38.4				1 5 30	
• 7.55	■ 7.55			62	31	12.7	ALDERGROVE		33.8	D		-	3 5.05	
• 8.10	· 8-10			26		16.9	orten		29 6		-		· 450	_
8.35	■ 8.35			61	18	21.6	LINCOLN		21 0			-	1 4 25	
9.00ks	Ars 9.00km	Lv 4.30fm	Lr 4.05h	64	35	29.1	CLOVERDALE	-		w	-		1 4 10	
		1 4.48	1 4.20			33.4	ALLUVIA	CL	17.1	R D Y	A 8 304	Ars 9.004	L 345An	
E L		1 4.50	1 4.25		-		SOUTHPORT		13.1		• 8.15	1 8 45		
		4.55			-	34.9		-	11.0		1 8 10	1 8 40		
		1 1	4.30			35.9	COLEBROOK JCT		10 6	Y	8.00	8 30		
		* 5.10	* 4.55	58	58	35.9	COLEBROOK	G	10.6	R DN W	1 7.55	1 825		
		5.15	5.00	-	-	36.7	GUICHON LINE JCT		9.8	Υ	7.45	815		
		1 5.40	1 5.25	_	0	42.7	INVERHOLM		3.8		1 7.15	1 7.45		
-		'1 5.50	1 5.35	_	2	43.1	CHALLUCTHAN		1.4		1 7.05	1 7 35		-
don, Wed.		Ars 6.00m	Ars 5.45h		10	10.5	- Guichon		0.0	w	L 7.004			
hur and Sat.	Tue, and Fri.	Tue Thur.	Mou., Wed.								Tue . Thur	Mon., Wed.	Det	
387	387	397	397					-			398	and Fri	Ex Sunday	
14.7	14.7	1 30 11 4	1.10				Time Over Distric* Average Speed Per Hour	-				398	388	
				-			Attake apecu Per Hour		- 1		11.4	1 10	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 Jet. and

All trains Fifth District will protect against all Third District trains between Colebrook Jct. and Gulchon Line Jet.

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.

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.

DERAIL SWITCHES.

Derail switch s must always be set for derail except when in actual use whether there are cars on the tracks or not. Abbottsford cast end of passing track.

## Business tracks not shown as stations on time table.

NAME	LOCATION	OPENS	CAPACITY
Patterson's Spur Smith Road Spur Matthew Road Spur Embree Road Spur Oliver Road Spur Gravel Pit Spur Surrey Spur Feruridge Lbr. Co. Spur Lincoln Lbr. Co. Spur Clark's Spur Otter Shingle Co. Spur Aldergrove Lbr. Co. Spur Singer Mill No. 2 Fish Trap Pit. Fisherrows Lbr. Co. Spur		East West West Both Both West West West West West West West West	3 5 5 5 5 5 5 8 9 15 30 22 15 20 10

#### SOUTH BOUND. SIXTH DISTRICT-FRASER RIVER JCT. TO CLOVERDALE.

## NORTH BOUND.

	SECON	D CLASS		Cap	arity				1	1	T		OKIH B	OUND.
387	397	397	385	Tr	arity Side seka	87	Time Table No. 90	a				SECON	D CLASS	
Mixed	Mixed	Mixed	Mixed			River	Effective Nevember 28, 1915	1 de	Track	SIGNS	398	398	386	384
Tue, Thur.	Tue . Thur.	Mun , Wed and Fri	Daily Ex. Sunday	Other	Passing Tracks	Distan	STATIONS	degra	Distance End of	See Rule 5, page 18	Mixed	Mixed	Mixed	Mixed
	L. 2.50m	1.		-		-	FRASER RIVER JCT	I F			Tae, Thur,	Men, Wed.	En Sunda.	Tue Thur and Sat
	2.55	2.55							23.0		Us10.40Am	1/-1040km	Ars11.05Am	
	200	2 00	• 1.15	-	-	1.0	LIVERPOOL		22.0		10.30	10.30	110.55	
						3.3	PORT MANN		19.7	W 2 Miles South				
	1 3 20	1 3.20	. 200		18	9.0	PORT KELLS		14.0	D	110.05			
8 40An	1 3 35	A+ 3.35m	Ns 245fm	64	35	15.2	CLOVERDALE	CL.				110.05	*10.15	
8 50M	Ars 4.000m					20.3	HAZELMERE	CL.	7.8	R D Y	1 9.45	Lv 9.454a	Lv 9.554a	A 4 20m
				-	-	20.3			2.7		Lv 9.054a			Lv 4.058a
Tue. Thur.	Tue Thus	M				23.0	END OF TRACK							4.00m
and Sat.	Tue., Thur.	Mon., Wed.	Daily Ex. Sunday								Tue, Thur.	M		
387	397	397	385								and Fat.	Mon., Wed.	Daily Ex. Sunday	Tur., Thur. and Sat.
30 0	17 4	20:45		-	_						398	398	386	384
~ "	11.4	20,	11.4				Time Over District Average Speed Per Hour		1		1.35	.55	1.10	
				-		-					12.7	16.4	13 0	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 New Westminster.

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

Fraser River Jct. for trains Nos. 385 and 397. Cloverdale for trains Nos. 386, 387 and 398. TERMINAL STATIONS. STATIONS. Cloverdale for trains Nos. 386, 387 and 398. TERMINAL STATIONS. Cloverdale for trains Nos. 385, 384 and 397. Hazelmere for trains Nos. 385 and 397. Fraser River Jct. for train Nos. 385 and 398.

## Business tracks not shown as stations on time table.

NAME	LOCATION	OPENS	CAR
Brownsville Spur Davis Spur. Flummerfelt Spur Great Western Shingle Co. McNair Spur. David Bell Co. Spur Campbell River Lbr. Co. Blaine Shingle Co. Spur Washington Mill Co. Spur Washington Mill Co. Spur	2.0 Miles north of Cloverdale 1.5 Miles north of Cloverdale 1.2 Miles north of Hazelm re.	South North South North South North North North	15 4 4 7 2 25 3 Joo

 SECOND CLASS		Capacity of Side Tracks	1	Time Table No. 90.				SECOND CLASS.			CLASS.	
	395	Tracks		In Effect November 21, 1915.	Telegraph Calls	a co	SIGNS. See Rule, 5 Page 15.	394				1
	Mixed	ğa . :	appe part			Distance		Nixed				
	Tue and Fri	13   25	FIN					Tue, and Fri.				
	L+ 6.25ka	10	0.0	KILGARD		5 0		1 6 20kg				
	Ars 6.55Am	30 31	5 0	ABBOTTSFORD	FS	0 0	R D W	1.7 5.50ka				
	Tue, and Fri			4				Tue, and Fri	1			
	395							394				
	30 10.			Time Over District				10				

INITIAL STATIONS.
Abbottaford....394.
Kügard.....396.

TERMINAL STATIONS.
Kilgard .... 394.
Abbottsford ... 396.

WEST BOUND.						CHERRY VALLEY	BR/	INCH	l.			EAST BOUND.		
SECOND CLASS.		7	Capac	seity Side		Time Table No. 90.					SECOND	CLASS.		
	391	393	Trisel	As .	from	in Effect Nevember 28, 1915.	Calls	8	SIGNS.	390	392			
	Mixed	Mised	ğ.	13	Bree	STATIONS.		graph	and and a	See Rule 5, Page 1	See Hule 5, Page 18	Mixed Mixed	Mised	
	Ex Sunday E	Dully Ex. Sunday	25	AF STATIONS.	STATIONS.		T ale	Tolt		Daily Ex Sunday	Daily Ex Sunday			
	L+ 6.20m L+	11.05km			0.0	MONROE	RO	17.6	DN W Y P	4 9.50km	Ars 4.20fm			
	1 6.30	*11.20	47	27	3.6	HIGHROCK		14.0		• 9.38	± 4.08			
	1 6.45 II	<b>11.35</b>	35		9.1	DUVALL		8.5	D P	1 9.25	a 3.55			
	* 700 *	11 50			14.8	STILLWATER CROSSING		2 8		1907	. 337			
	Ars 7 10Fm Ars	*12 05Pm	31	24	17 6			0.0	D W T P	1. 9.00km	Lv 3.30h			
	Daily Ex Sunday Ex	Daily Ex Sunday								Daily Ex. Sunday	Daily Ex Sunday	and the state of t		
	391	393								390	392			
	21:10	1 00				Time Over District Average Speed Per Hour				21:1	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. Telt 391-393.

Rusiness tracks not shown as stations on time table.

NAMB	LOCATION	OPENS	LENGTH	CAPACITY
Bacus Spur	4.6 Miles west of Monroe. 6.0 Miles west of Monroe 6.4 Miles west of Monroe 1.1.0 Miles west of Monroe	West East West West	268 ft. 350 ft. 320 ft. 558 ft.	6 4 5 15

WEATEER RATING (1—When temperature is 25 degrees above zero or over. 2—Very frosty or wet. 5 to 25 above zero.

WEATHER RATING [3-Five degrees above to 10 below zero. 4-Ten below zero and colder.

	1-	7.774		200	711	
Weights o	f En	npty	Freig	ht Car		
Box Cars, 28 to 30 foot						. 11 Tons
Box Cars. 33 foot						. 12 Tons
Box Cam. 34 foot				*****		13 Tons
Box Cars. 36 foot						. 15 Tons
Box Cara, 40 foot						. 17 Tons
Refrigerator Cara						20 Tons
Express Refrigerator Carr						. 33 Tous
Furniture Cars, 30 to 40	foot					. 17 Tons
Furniture Cars, 40 to 50	foot					. 19 Tons
Cabocses, 8 wheel						17 Tons
Cabooses, 4 wheel						10 Tons
Flat Cars, 28 to 30 foot.						9 Tons
Flat Care, 33 and 34 foot						11 Tons
Flat Care, 40 foot	• • • • •	• • • • • •				12 Tons
Coal Cars						12 Tons
Gondola Care						13 Tons
Ore Cars, Wood						19 Tons
Ore Care, Wood						IZ Tone
Ore Cars, Steel			*****			IS Tons
Oil Tanks						15 Tons
Ballast Cars						12 Tons
Bteam Wrockers						75 Tons
The following will go	vern	whe	u hand	ling on	pty c	ars: With

10 or less compty cars in a train no allowance will be made for wheel friction; with 10 to 20 empty cars in a train, add to actual relight 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.

Weights of Pass	enger Equ	ipment.	Weights of Passenger Equipment—Cont.					
	Wooden	Steel Under- frame	Stel		Wooden	Steel Under- frame	Steel	
Postal Cars, Nos. 1 to 21 Nos. 90 and 91 Nos. 50 to 69 Nos. 107 to 114 Bagange and Mail	at Tens t) Tens		67 Tons 48 Tons	Coaches—Cont.  Nos 1000 to 4012.  Nos 4013 to 1060.  Nos 1100 to 4159.  Nos 1200 to 4317.  Nos 4500 to 4529.	36 Tons 41 Tons 51 Tons 59 Tons		To Ton	
Series 500 and 100 Series 500 and 600 Series 700 Series 500	15 Fons 60 Tous	60 Tons		Tourist No. 6520 to 6567 Nos. 6568 to 6611 Dinets.	11 Total 52 Tonal		, , 1	
Nos. 1000 to 1027 Nos. 1050 to 1089	25 Tons 50 Tons		27.44	Nos. 7010 to 7015 Nos. 7030 to 7041 Nos. 7100 to 7131	50 Tons 58 Tons 61 Tons			
Nos. 1100 to 1119. Nos. 1588 to 1702 Express Refrigerators,	55 Tons	to stead ded		Parket Cars. Xos. 7590 to 7571 Xos. 7572 to 7604 Sleepers.	15 Tor - 60 Tor-			
Nos. 1900 to 2007. Passenger and Baggage, Nos. 2100 to 2201.	25 Tons	ts steament	un tare	Compartment-Observation,	60 Tens			
Coaches, Nos. 3000 to 3241 Nos. 3250 to 3606	27 Tons 45 Tons		1	No- 9001 to 9035 Business Cars Average Weight	63 Tons 40 Tons	-		
Nos. 3700 to 3724.		52 Tons	2232					

#### Weights of Dead Engines and Tanks.

Engines numbered below 200 series	ons
Engines numbered in 200 series	
Engines numbered in 300 series 86 T	
Engines numbered in 400 series	ago.
Engines numbered in 500 series	
Engines numbered in 600 series	
Engines numbered in 700 series	
Engines numbered in 800 series	ons
Engines numbered in 900 series (except 992 to 997)115 T	ons
Engines numbered 992 to 997	ons
Engines numbered 1000 to 1007	ons
Engines numbered 1050 to 1069	GU3
Engines numbered 1079 to 1095	ot s
Engines numbered in 1100 and 1200 series 160 7	Cona
Engines numbered in 1300 series	Ons
Engines numbered 1400 to 1405	Tona
Engines numbered 1406 to 1425	
Engines numbered in 1500 and 1600 series 179	Euro
Engines numbered in 1700 series	Cons
Engines numbered in 1800 series	Tons
Engines numbered in 1900 series	Tons
Engines numbered in 3000 series:	
Engines numbered 1750 to 1764	
Engine Tank (Empty)	

Speed Limits for trains.	_	
Between	Passenger	Freight
Leavenworth and Skykomish	35 miles per hour.	20 miles per hour.
Though Counds Topped	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	to miles per hour	20 miles per hour.
Sky keemish and Gold Bar	10 miles per bour	25 miles per hour.
Gold Bar and Pacific Avenue	of miles per man.	15 miles per hour.
Cherry Valley Line	25 miles per nour.	
Everett Jet and Seattle	50 miles per nour.	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.
Buil Creek and Vancouver	20 miles per hour.	15 miles per hour.
the Creek and Vaccouver	25 miles per hour	15 miles per hour.
Skagit Branch.	25 miles per hour	15 miles per hour,
Fraser River Jet. and Cloverdale	20 miles per nour.	15 miles per hour.
	25 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.

50 miles per hour is equivalent to one mile in 1 minute and 12 seconds. of miles per hour is equivalent to one mile in 1 minute and 20 seconds.

10 miles per hour is equivalent to one mile in 1 minute and 20 seconds.

15 miles per hour is equivalent to one mile in 1 minute and 30 seconds.

15 miles per hour is equivalent to one mile in 1 minute and 43 seconds.

16 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.

L-1, L-2 and M-2 engines will not exceed speed of 25 miles per hour. F-7, \$ and 9 engines will not exceed speed of 30 miles per hour. O-1 and P-1 engines will not exceed speed of 30 miles per hour between hour between Skykomish and Gold Bar.



Home Signal.

Upper Arm RED light at night. Lower Arm RED light at night, STOP. Proceed only when Signal Indication.

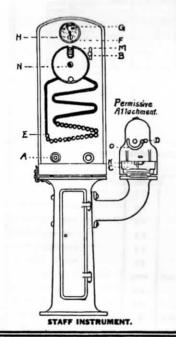
STOP Signal.

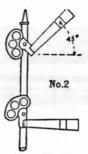
Color



Distant Signal.

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





Home Signal.

Opper Arm, YELLOW light at Lower Arm, RED light at night.

Indication. Proceed on main line with caution be prepared to stop at the Block

Station. CAUTION Signal.

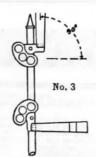
Color.

Name.



Distant Signal. Color. Indication

YELLOW light at Night. Proceed with CAUTION prepared to stop at Home Signal.



Home Signal.

Upper Arm GREEN light at night. Lower Arm, RED light at night. Main line route clear staff in crane Indication. PROCEED.

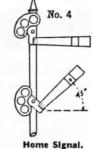
CLEAR Signal.

Color.

Name.

Color.

Name.



Upper Arm, RED light at night. Lower Arm, YELLOW light at night. Color. Take Passing track.

CAUTION Signal. Name.

No. 8

Distant Signal.

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



Pouch jar permissive STaff disc.

Pouch for permissive

Staff complete.

D

POUCH FOR ABSOLUTE STAFF.

## **GENERAL INSTRUCTIONS**

#### **OPERATING TRAIN STAFF INSTRUMENTS.**

#### TO REMOVE STAFF FROM MACHINE.

Instructions to Operator removing staff.

Press bell key "A" once ①. Answer will be two ② taps.

Press bell key "A" three ② times. Then watch current indicating needle
"F" until it deflects to the right.

Turn preliminary spindle "B" to the right as far as it will go and then release it, permitting it automati-ally to return to its former position.

A white disc will appear in place of the red one at "H". This indicates that

A white disc will appear to piace of the red one at "H". A mis monerates that staff is ready to be removed.

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".

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."

Immediately upon withdrawal of staff, press bell key "A" once. This is absolutely necessary.

#### Instructions to Operator aiding in removal of a staff.

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

#### TO REPLACE STAFF IN THE MACHINE.

Instructions to Operator replacing staff.

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

3rd. Press bell key "A" according to signal 1-2 of the bell code. Instructions to Operator at opposite end of Block.

The signal 1-2 of the bell code must in every case be answered in order to place the machines in proper condition for the withdrawal of the next staff.

## TO REMOVE THE PERMISSIVE STAFF FROM MACHINE.

Insert solid staff in the opening "D" of the permissive attachment and move to the extreme left of the slot "O."

Turn the latch "K" and allow door "C" to drop and the permissive staff to roll out.

#### TO REPLACE THE PERMISSIVE STAFF IN THE MACHINE.

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

# INSTRUCTIONS FOR OPERATING SEMAPHORE SIGNALS THROUGH CIRCUIT CONTROLLER ATTACHMENT.

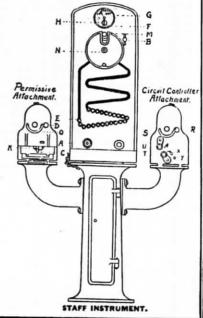
To operate Upper Arm of Semaphore 03 to 453 (See Fig. No. 2), turn handle

To operate Upper Arm of Semaphore 0<sup>3</sup> to 45° (See Fig. No. 2), turn handle """ to the right clockwise to stop "X."

"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 alot "8" 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 Fouch in staff erane which action automatically "(Lears" Home and Distant Signals to 93° Position. (See Fig. No. 3 and 8).

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.

2 --All Right. Yes. 3 ---Block wanted, Unlock my Instrument, Ans. by Unlocking or by 5 or 3-1. Train has entered Block. Block is not clear. 5----Has a train entered this Block? Answer by 2 or 2-1. Clear. Train has cleared Block. 2-1 - - -No 2-2-2 - - - - - Previous Signal given in error. Amwer by 2 2-4 -- --- Has train Cleared Block? Answer by 5 or 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.



## ELECTRIC TRAIN STAFF BLOCK SIGNAL RULES AND INSTRUCTIONS.

Liectric Train Staff Block Signal System in operation between Leastneorth and Skykomiah, E crett Jet., and Pacific A. e., and between Delta Wyo and Marystille.

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 Instruc-

- All trains and engines in both directions will be governed exclusively in their movements by the train staff.
- 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.
- The possession of the staff by the Engineer gives his train the absolute right of track to the next

ENGINEERS MUST KNOW THAT THE STAFF IS IN THE POUCH BEFORE PROCEEDING.

- The staff will be handled by the Engineer of the leading engine of the train; and the taff 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, and may be uncoupled only at a block station. Such engine, if then uncoupled, must be treated as a separate train.
- 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).
- An absolute staff permits but one train at a time to use a block. See D figure No. 9
- 6 A. A permission staff dire, permits two or more trains in the same direction at one time to use a block on escending 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
- The delivery of the staff to the Enginemen will be either by staff crare, 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.

Staff will be delivered by Engineer on arrival at 15-A. In the event of staff apparatus and other means of 22-D. When two or more trains are permissive staff discs 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 Elock 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.

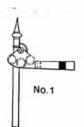
- In case a train parts, or it is necessary to"double," the staff must be retained by the Engineer until all the train is clear of the block. A train is clear of a block when it has passed the home signal. A train proceeding on many track enters a block at the block office. It may a copy the main track 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.
- 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.
- Conductors and Engineers, before leaving initial points, must secure clearance card. Form 219,
- block Operators, unless otherwise instructed by Train Dispatcher, will staff the train of superior times table rights and side track the inferior train when 20. a meeting point developes at their station.
- When it is desired to reverse the right of track, trains will be moved by Train Dispatcher's orders on 21. Form 19, issued to Block Operators giving instructions to staff the train that is to receive preferred attention, and side track the superior train.
- 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 anthorize the delivery of a permissive disc in the prescribed direction to enable work train to work under protection of flag until following train approaches.
- In case of failure of staff spparatus, 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

- 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 22-F. The first train in the opposite direction (descendclear and the Block Operator and Train Dispatcher must know that the full number of staffs are in the two instruments of this block.
- In case a staff should be lost, the stuff instruments 23. in this block are inoperative and trains must be Loved 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.
- 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.
- A record of all trains must be kept at each block station on Form No. 290.
- 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 proeved. The train then has no right to main track until given another staff.
- 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.
- 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.
- Absolute staffs (See D. Fig. No. 9) must be used for all trains on decen ling grades, or eastbound from Caseade Tunnel to Leavenworth, and westhound from Tye to Skykomish.
- 22-A. Permissive staff discs (Sec 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. P rmissive staff discs must not be given to Enginers with light engines or light tonnage trains to follow a passenger train.
- 22-C. Trains moving under authority of a permissive 36. staff disc must protect against following trains as per Rule No. 99.

- the last train will be green the permittalet staff (Sec B, Fig. No. 9) with all the remaining discs and this confers the same rights as a single paramastre staff
- 22-E. The Block Operator receiving the premissive staff must at once assemble on it in num-rical order all the permissive discs received from preceding trains and place the complete permissive staff in the permissive attachment.
- ing the grade) must be given the complete permissive stuff, which confers the same rights as an absolute
- When no train movement is imminent, home signals must be kept in stop position.
- Block Operators must not make nor permit any unauthorized alterations or additions to the apparatus. If alterations or oldstions are saids, the oak will be done under the direction of the Signal Super-
- 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.
- Block Operators must have the proper appliances for hand signaling (a yellow day by day and a yellow light by night) ready for immediate use. Hand signals must not be used when the proper indications an 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.
- Block Operators are responsible for the care of the block station, lamps and supplies and of the signal apparatus unless provided for otherwise.
- Lights in block stations trust be so placed that they cannot be seen from approaching trains.
- Block Operators will remain in view until the rear of a train has passed and will give a "proceed" signal to the Conductor on year of train to indicate that a staff has been delivered to Engineer.
- The Engineer of a train which has parted must sound the whistle signal for "train parted" on approaching a block station.
- An Engineer receiving a "train parted" signal must answer by two short blasts of the whistle.
- When a parted train has been recoupled the Block Operator must be notified.
- If the track is obstructed between block stations notice must be given to the nearest Block Operator.
- 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 Superint adent any unusual detention at block stations
- Special attention of all concerned is directed to meaning of caution signal as shown by Fig No. 2.
- Staff instruments must be kept locked. Keys will be furnished to the signal repairman but to no other

# **AUTOMATIC BLOCK SIGNALS.**

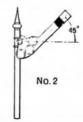
- 501. In all cases except as noted by special rules, the BLOCK Signals are located upon the Right of and adjoining the track upon which trains are governed by them. The Senaphore arms that govern are displayed to the right of the Signal must as seen from an approaching train. The movement of trains 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".
  - 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 whereever 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 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.



INTERMEDIATE AUTOMATIC BLOCK SIGNAL.

Color. Indication, STOP. Name. STOP Signal.

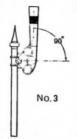
RED light at night



INTERMEDIATE AUTOMATIC BLOCK SIGNAL.

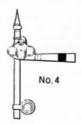
Color. YELLOW light at night. Indication. PROCEED with CAUTION prepared to stop at next signal. CAUTION Signal.

- 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.



INTERMEDIATE AUTOMATIC BLOCK SIGNAL

GREEN light at night Indication, PROCEED. CLEAR Signal.



HOME AUTOMATIC BLOCK SIGNAL

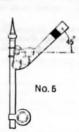
Arm, RED light at night. Disc, RED light at night. Indication. STOP. Name. STOP Signal

508. In making train movements through cross-over or other switches to or from a main track, one of the switches must be kept open

to or from a many track, one of the awarder must be kept open until train movement is completed to insure signal protection. The opening of any switch will set and hold signal of that block at stop until the switch is closed. The opening of any switch at either end of a double track cross-over will hold signals on both main tracks at stop.

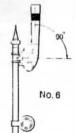
If either end of a siding cross-over on single track is opened, it will set and hold the signals that control the block on main track to which it leads in both directions at stop. Neither switch nor cross-over must therefore be opened, until the movement of the train is to be made, and must be closed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

- 509. Switch Indicators (miniature semaphores) where used stand normally in "STOP" position. Trainmen or others using switches equipped with switch indicators must first push button on bottom of switch indicator case and if no train is approaching switch in-dicator will clear when switch may be used. The switch should be thrown at once after switch indicator clears.
- 510. When necessary to clean ash pan or cinders from the smoke arch inside of block signal limits care must be taken to avoid dumping live coals or hot cinders on the wooden trunking used to protect the signal track wiring.
- 511. Lights will not be provided on any main line switch located within 300 feet of an automatic signal governing the block in which the switch is located. Lights will not be provided on trailing point switches on double track.
- 512. Cars on side track or other tracks connecting with main tracks must be kept clear of bonded rails and insulated joints as otherwise signals will be held in "STOP" position. All tracks connecting with main track are bonded to clearance point only.
- 513. Interlocking Signals located in districts equipped with Automatic Signals, become, unless otherwise stated under "Special Rules," a part of the automatic block signal system. All such Home Interlocking Signals are equipped with not less than two arms and two lights, see general instructions governing operation and mainte-nance of interlocking plants and figures Nos. 7, 8, 9, 10, 11 and 12.



HOME AUTOMATIC BLOCK SIGNAL.

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



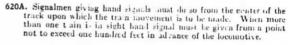
HOME AUTOMATIC BLOCK SIGNAL.

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

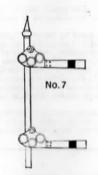
#### ENGINEMEN AND TRAINMEN.

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

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



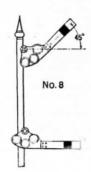
- 623. If there is a derailment, or if a switch is run through, or if any damage occurs to the track or interlocking plant, or if any part of the interlocking apparatus fails to operate properly, the signals must be restored to the normal position, and no train or switch movement permitted until the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

Indication. STOP. Proceed only when

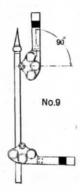
signal clears or upon prescrib-ed hand signal from Signalman. STOP Signal



INTERLOCKING HOME SIGNAL Upper Arm, YELLOW light

Lower Arm, RED light at

Indication. Main line route clear, proceed with CAUTION, prepared to stop at next signal CAUTION Signal. Name.



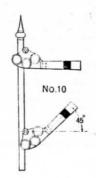
notified

INTERLOCKING HOME SIGNAL.

Upper Arm, GREEN light at Lower Arm, RED light a

night. Indication. Main line route clear, PRO-CEED.

CLEAR Signal Name.



INTERLOCKING HOME SIGNAL

Upper Arm, RED light at Lower Arm, YELLOW light at night.

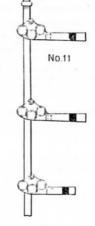
Indication. Diverging route clear, proceed with CAUTION.

CAUTION Signal.

No.15

INTERLOCKING DISTANT SIGNAL

GREEN light at night



INTERLOCKING HOME SIGNAL. Color. Upper Arm, RED light at

> Middle Arm, RED light at night. Lower Arm, RED light at

Indication. STOP. Proceed only when aignal clears or upon pres-cribed hand signal from sig-

nalman. Name. STOP Signal.



DWARF SIGNAL RED light at night. Indication. STOP.

No.12

INTERLOCKING HOME SIGNAL.

Upper Arm, RED light at Middle Arm, RED light at Lower Arm, YELLOW light

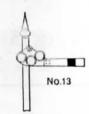
at night.

Indication. Slow speed, Route clear, Pro ceed.

Name. CAUTION Signal



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

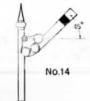


INTERLOCKING DISTANT SIGNAL.

RED light at night.

Indication. STOP, then proceed with CAUTION, prepared to stop at Home Signal.

Name. STOP Signal.



INTERLOCKING DISTANT SIGNAL

YELLOW light at night Indication. PROCEED with CAUTION, prepared to stop at Home Sig-

CAUTION Signal

Indication, PROCEED. CLEAR Signal.

#### REFERENCE MARKS.

- 1. Freight trains running between Leavenworth and Skykomish will not carry passengers.
- 2. 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.
- 4. Car capacity of passing tracks based on 42 feet to the car inside of clearance points and does not allow for engines or caboose. Car capacity other tracks do not include engine house tracks, turn table tracks, shop tracks, safety tracks or wye tracks.
- 5. In addition to signs provided for in Rule 7, Book of Rules, the following signs in column headed "Signs" in-
  - D Day telegraph or telephone office.
  - Night telegraph or telephone office.
  - DN Day and night telegraph or telephone office.
  - Dispatcher's telephone accessible at all times.
  - Inter ocked.
  - Connection with foreign road.
  - Standard clock.

#### PERSONAL INJURIES.

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

- In reporting accidents to trains carrying passengers, conductors should give the correct names of the injured and uninjured, the adoresses and de finations 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 A-sistant Claim Agent in whose jurisdiction the accident occurs.
- As soon as possible thereafter Ferm 245 should be made out by each employe and forwarded to the Superintendent of the Division; a separate report being made for each person injured.
- 6. Every effort must be made to procure the names and addresses of all persons, outsider as vill as employes, who witnessed the accident, especially when persons are injured within the corporat limits of any city, town
- or village, or when crossing the tracks at a public highway.

  7. In every case of personal injury in any Department, a full and complete report must be made at once by every employe immediately present, no matter whether he considers his statement of importance or not, answering every question is fully as possible.
- 8. When persons are injured by an accident which may have been caused by defective appliances, too s or machinery, the car or appliance, tool or machinery must be immediately examined by the person in charge to ascertain its condition, and report made of the inspection, giving the numbers and initials of cars examined, with names, occupation and address of the persons making the inspection. This inspection must be made before the car or engine leaves the place where the accident occurred, and afterwards at the first district terminal by the inspector, foreman, or Master Mechanic at such point, the Superintendent to notify such person of the necessity of making such examination. When an accident is caused by the breaking of machinery, tools, appliances or rails, the broken parts must be so marked as to be readily identified, and immediately turned over to the Superintendent.
- 9. This Company will not recognize any responsibility for board, medicine, nursing or surgical attention furnished by other than Company Surgeons, except for the emergency service required under Rules 1 and 2. unless authorized by the Superintendent, General Claim Agent, or a general officer of the Company, and when so authorized the General Claim Agent should at once be notified.

#### COMPANY SURGEONS.

Dr. J. A. Quinn, Chief Surgeon, 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, Wach         DR. J. T. GUERIN.           Tacoma         DR. JAMES A. I.A 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.
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#### TIME INSPECTORS.

Leavenworth         F. E. CARLQUIST.           Scattle.         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.
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- 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.



