SPEED TABLE

Per	me mile Seconds	Miles Per Hour	Tir Per Minutes	me mile Seconds	Miles Per Hour
0 0 0 0 0 0 0 0 0 0 0	45 46 47 48 49 50 51 52 53 54 55	80 78.8 76.6 75.5 72 70.6 69.2 67.9 66.6 65.4 64.2 63.1	1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 15 20 25 80 40 45 50 15 20	50 48 45 42.8 40 36 34.8 32.7 80 27.6 25.7 24.8
0 0 1 1 1 1 1 1 1 1 1	58 59 • 1 2 8 4 5 6 7 8 9 10	62.0 61.0 60 58 57.1 56.2 55.3 54.5 52.9 52.1 51.4	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	40 45 50 9 20 81 45 80	22.5 21.8 21.2 20 19 18 17 16 15 10 8

NORTHERN PACIFIC RAILWAY COMPANY

Dulath and Superior Terminals

TIME TABLE 243

In Effect at 12:01 A.M. Central Standard Time.

Sunday, April 28, 1957

For the Government of Employes only. The Company reserves the right to vary therefrom at pleasure. Be positive that you have the Current Time Table and destroy all previous numbers. Read carefully the Special Instructions and always carry for reference a copy of OPERATING RULES.

W. L. WOOD, Superintendent.

D. A. THOMSON, General Manager. E. S. ULYATT, General Superintendent of Transportation.

2	W.	EST	WARD				FIF	est su	BDIVI	SION		/		
.							FIRST	CLASS					Jot.	Time Table No. 243
Wyes mite		pbers.		65	303	201	57	19	61	23	35	55	Distance from East D. M. & I. R.	April 28, 1957
Turn Tables, Vand Isim	Car Capacity of Sidings.	Numper			D. W. & P.	D.M.&I.R. 1		G. N. 19		G. N. 28	G. N. 85		oe fro	
E A	25.00 25.00	Station		Passenge	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	istan ist D	STATIONS
48	22	3		Daily	Ex. Sun.	Daily	Daily	Daily	Ex. Sun.	Daily	Ex. Sun.	Daily	<u> 고</u> 립	Telegraph Offices and Calls
	_						_						0.0	EAST D. M. & I. R. JCT
TW	Yard	WB 71		E 11.30	4	L 8.15PM	L 5.35 PM	L 4.30pm	ъ 1.30рм	L 8.00 AM	L 7.30 M	L 7,25 AM	0.9	DUDULUTHDN
x_				11.33	L 8.04 PM	8.18	5.37₽	A 4.32 №	1.32	A 8.02 AM	A 7.32 AM	7.27 AM	1.9	GARFIELD AVEP
x		L02		11.37	8.07	A 8.2 PM			1.35				2.8	
X					_								8.6	
X				11.40	A 8.15 PM				1.38				4.5	mD. W. & P. JCT
<u>x</u>		L04		<u>s 11.44</u>	_				s 1.40				5.1	WUWEST DULUTHDN
XY		L 5		A 11.50	<u> </u>	·			A 1.42 PM					0.0
X													6.7	72ND AVE. W
		TRA	ins us	ING D.	T. RAIL					WILL E		RNED B	Y D. I	M. & I. R. RY.,
		LB1											7.8	RIVERSIDE JCT
	18	LB2											8.2	0.4 RIVERSIDE
	18	LB5		Daily	Ez. Sun.	Daily	Daily	Daily	Ex. Sun.	Daily	Ex. Sun.		12.5	NEW DULUTH
				Daily	Ex. Sun.	Dany	Daily	Dana	EX. 5un.	Dany	EX. Sun.	Daily		
				.20	.11	.06	.02	.02	.12	.02	.02	.02		Time Over Subdivision
_				15.0	14.2	19.0	80.0	30.0	25.0	30.0	80.0	30.0		Average Speed Per Hour

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

SPECIAL INSTRUCTIONS PAGES 6, 7, 8, 9, 10 AND 11.

]	FIRST	SUBDI	VISION	T			EASTW	ARD :	3
	Time Table No. 243					FI	RST CLA	ss					
ľ	April 28, 1957	66	36	58	202	24	304	62	20	56			
Distance from New Duluth			G. N. 86		D.M.&I.R.	G. N.	D. W. & P.		G. N.				
ew L	STATIONS	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger		* .	
ĀŻ	Telegraph Offices and Calls	Daily	Ex. Mon.	Daily	Daily	Daily	Ex. Mon.	Ex. Sun.	Daily	Daily			
12.5	EAST D. M. & I. R. JCT												
1.6	DUDULUTHDN	A 5.10AM	A 6.48 AM	A 7.30 AM	A 9.30 AM	A 11.58 AM		А 12.30ры	A 7.45 PM	A II.IOPM			
0.6	GARFIELD AVE. P WEST D. M. A I. R. JCT.	4.56	L 6.43 AM	L 7.25 AM	9.27	L 11.56AM	A 12.27 PM	12.25	L 7.43 PM	L 11.02PM			
9.7	WEST D. M. & I. R. JCT.	4.50			L 9.24 AM		12.22	12.22					
9.7 8.9 8.0	SOO LINE CROSSING.												
	.)						L 12.17PM	12.18					
7.4 6.6	WU WEST DULUTHON	s 4.43						s 12.16					
6.6	WEST DULUTH JCT.P	L 4.34 AM						L 12.14 PM					
5.8	72ND AVE. W												_

TRAINS USING D. T. RAILWAY WEST OF 72ND AVE. WEST WILL BE GOVERNED BY D. M. & I. R. RY., TIMETABLE AND SPECIAL INSTRUCTIONS.

4.7	RIVERSIDE JCT										1	
4.8	RIVERSIDE											
0.0	4.3											
		Daily	Ex. Mon.	Daily	Daily	Daily	Ex. Mon.	Ez. Sun.	Daily	Daily		
	Time Over Subdivision	.36	.05	.05	.06	.02	.10	.18	.02	.08		
	Average Speed Per Hour	3.3	12.0	12.0	19.0	80.0	15.6	18.8	80.0	7.5		

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

SPECIAL INSTRUCTIONS PAGES 6, 7, 8, 9, 10 AND 11.

						FIRST	CLASS						Time	Table	No. 243	
				,	89	57	19	93	23	35	55	65		pril 28, 1	4 4 4 G	
			_		Omaha 510		G. N. 19	Omaha 512	G. N. 28	G. N. 85			-			
					Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	S	TATI	ONS	
	_				Daily	Daily	Daily	Daily	Daily	Ex. Sun.	Daily	Daily	Telegr	aph Office	s and Calls	i
			-			L 5.37PM	L 4.32 PM		L 8.02 AM	L 7.32 AM	L 7.27 AM			ARFIELD	AVEI	2) 6
						5.39	4.34		8.04	7.34	7.29			RICES PO	INTI	- 하-
			_		L 8.22 PM	5.40	4.36	L 4.41 PM	8.06	7.36	7.31			RIDGE SY		
	_		[-		8.25_	5.43	4.40	4.45	8.10	7.39	7.34		ELE	EVATOR S 		Track
					A 8.28 PM	t		A 4.47 PM	8.12	7.42	7.36	<u>[</u>		0.3		·•
			E	BETWEEN OM/ WILL BE	AHA CON GOVERN	INECTIO ED BY L	N AND E	BELKNAF T. RY. 1	STREE	T TRAIN BLE ANI	D SPECIA	AL INST	RUCTIO	NS.	· · · · · · · · · · · · · · · · · · ·	
			[_		-		s 4.45		s 8.15	s 7.45				^ 5_	U. D	
	<u></u> -		-		 	5.48	4.46		8.16 A 8.23 AM	7.46	7.40	12.08	g dg }	BELKNAP 8.7 Central	STP	Trael-
_	-		<u></u> -		-	A 5.56 PM	A 4.53 PM						THE CAS	VIII I NAL		7 8
			_		Daily	Daily	Daily	Daily	Daily	Ex. Sun.	Daily	Daily	par.	O 6 S		
			-		.06	.19	.21	.06	.21	21.1	21.1	22.8		ne Over Sul		
			i	i	16.0	23.3	21.1	16.0	21.1	21.1	21.1	22.0		rage opeca		. <u>I</u>
PE	EDAT	FIAN		TRAINS ARE ER MINNESOT D. FIRST CLAS	A DRAW	AN ST. I	LOUIS RI S. T. & 1	IVFR RR	IDGE, B VAY BET	WEEN O	MAHA C	E SWITC	H AND	BELKI	OR STAI	EET.
11	ERAT NTEI	FIAN		FD MINNECAT	A DRAW S TRAIN	ON ST. I S USE L.	SECC	IVER BR F. RAILW OND SU	JBDIVI	SION	FIRST	CLASS	ION AND	BELK	NAP STR	EET.
11	ERAT NTEI	FION	CKEI	ER MINNESOT D. FIRST CLAS Time Ta	A DRAW S TRAIN	ON ST. I S USE L.	LOUIS RI S. T. & 1	OND SU	JBDIVI	WEEN O	FIRST	CLASS 96	20	BELKI	NAP STR	EET.
mite.	ERAT NTEI	FION	CKEI	ER MINNESOT D. FIRST CLAS Time Ta	s train	ON ST. I S USE L.	SECC	IVER BR F. RAILW OND SU	JBDIVI	SION	FIRST	CLASS	ION AND	BELK	NAP STR	EET.
ard Limits.	ERAT NTEI	FION	CKEI	Time Ta	s train	on st. I s use L.	SECC	OND SU	UBDIVI 94 Omaha 511	SION	FIRST 24 G. N.	CLASS 96 Omaha	20	BELK	NAP STR	EET.
ard Limits.	ERAT NTEI	FIAN		Time Ta	ble No.	on st. I s use L.	SECC	OND SU	UBDIVI 94 Omaha 511	SION 58	FIRST 24 G. N.	CLASS 96 Omaha 518	20	56	NAP STR	EET.
and Yard Limits.	Car Capacity of Sidings.	Station Numbers.	Note of the Control Ave.	Time Ta Apri S T A Tolegraph	ble No. 1 28, 1957 TION:	243 Calls	SECCO	JAG G. N. Passenger	Daily	SION 58 Passenger Daily A 7.25AM	FIRST 24 G. N. 24 Passenger Daily A 11.56AM	CLASS 96 Omaha 518 Passenger Daily	20 G. N. 20 Passenger Daily	ELEVAL DELKI I 56 Passenger Daily A 11,02 M	EASTWA	EET.
NA and Yard Limits.	ERAT NTEI	Station Numbers.	Distance from YO Central Ave.	Time Ta Apri S T A Telegraph	ble No. 1 28, 1957 TION: Diffices and IELD AVE. 10.7	243 Calls	SECCO	ND SU 36 G. N. 36 Passenger Ex. Mon.	Daily	SION 58 Passenger Daily	FIRST 24 G. N. 24 Passenger Daily	CLASS 96 Omaha 518 Passenger Daily	20 G. N. 20 Passenger Daily A 7.43 Pt 7.41	FLEVAL BELKI I 56 Passenger Daily A 11,02 Pt 10.59	EASTWA	EET.
NA and Yard Limits.	Car Capacity of Sidings.	Station Numbers.	CKE Distance from Central Ave.	Time Ta Apri S T A Telegraph	ble No. 1 28, 1957 TION: Diffices and IELD AVE. 128 POINT. 10.6	243 Calls	SECCO Passenger	36 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38	DALLY Passenger Daily A 7.43 A	Passenger Daily A 7.25M 7.23 7.22	FIRST 24 G. N. 24 Passenger Daily A 11.56AH 11.52	CLASS 96 Omaha 513 Passenger Daily	20 G. N. 20 Passenger Daily A 7.43 pt 7.41 7.39	## Daily A 11,02Pm 10.59 10.57	EASTWA	EET.
X and Yard Limits.	Car Capacity of Sidings.	Station Numbers.	CK Page 100	Time Ta Apri STA Telegraph	ble No. 1 28, 1957 TION: Diffices and HELD AVE. 25 POINT. 0.6 SWITCH 0.7	243 Calls Calls	SECCO Passenger	36 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38 6.35	Passenger Daily A 7.43 A 7.39	SION SION Passenger Daily A 7.25 M 7.23 7.22 7.18	FIRST 24 G. N. 24 Passenger Daily A 11.56 M 11.52 11.47	CLASS 96 Omaha 513 Passenger Daily A 12.02 MI	20 G. N. 20 Passenger Daily A 7.43 m 7.41 7.39 7.34	ELEVATO BELKI 56 Passenger Daily A 11,02P 10.59 10.57 10.54	EASTWA	EET.
X and Yard Limits.	Car Capacity of Sidings.	Station Numbers.	CKEI 7.4 Central 4ve.	Time Ta Apri STA Telegraph	ble No. 1 28, 1957 TION: Diffices and IELD AVE. 0.7 ES POINT. 0.6 OR STATIC 0.7 0.8	243 Calls DN	SECCO Passenger Daily	T. RAILW OND SU 36 G. N. 36 Passenger Ex. Mon. A. 6.43 M 6.40 6.38 6.35 6.32	Passenger Daily A 7.43 A 7.39 L 7.37 A	ETWEEN OF SION SION SION SION Passenger Daily A 7.25 M 7.23 7.22 7.18 7.15	FIRST 24 G. N. 24 Passenger Daily A 11.56 M 11.54 11.52 11.47	CLASS 96 Omaha 518 Passenger Daily A 12.02PM 11.56AM	20 G. N. 20 Passenger Daily A 7.43 PM 7.41 7.39 7.34 7.31	ELEVAL BELKE Passenger Daily A 11,02 M 10.59 10.57 10.54 10.51	EASTWA	EET.
X and Yard Limits.	Car Capacity of Sidings.	Station Numbers.	CKEI 7. Distance from 6.5. Control Ave. 6.1. 6.2. 4.5.	Time Ta Apri S T A Telegraph	ble No. 1 28, 1957 TION: Diffices and IELD AVE0.6 -0.8 ESWITCH -0.7 -0.1 ESWITCH -0.8 AHA COIN. 0.8	243 Calls NNECTIC	SECCO 66 Passenger Daily DN AND L. S. T. &	T. RAILW OND SU 36 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38 6.35 6.32 BELKNAL A T. RY.	P STREE	Passenger Daily A 7.25 M 7.23 7.22 7.18 7.15	FIRST 24 G. N. 24 Passenger Daily A 11.56 M 11.52 11.47 11.45	CLASS 96 Omaha 518 Passenger Daily A 12.02Pl 11.56 M	20 G. N. 20 Passenger Daily A 7.43 M 7.41 7.39 7.34 7.31	ELEVATO BELKI 56 Passenger Daily A 11,02Pt 10.59 10.57 10.54 10.51	EASTWA	EET.
X and Yard Limits.	Car Capacity of Sidings.	Station Numbers.	CKEI 7. Distance from 6.5. Control Ave. 6.1. 6.2. 4.5.	Time Ta Apri S T A Telegraph	ble No. 1 28, 1957 TION: Diffices and IELD AVE0.6 -0.8 ESWITCH -0.7 -0.1 ESWITCH -0.8 AHA COIN. 0.8	243 Calls NNECTIC	SECCO 66 Passenger Daily DN AND L. S. T. &	T. RAILW OND SU 36 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38 6.35 6.32 BELKNAL A T. RY.	P STREE	Passenger Daily A 7.25 M 7.23 7.22 7.18 7.15	FIRST 24 G. N. 24 Passenger Daily A 11.56AM 11.52 11.47 11.45 NS USING	CLASS 96 Omaha 518 Passenger Daily A 12.02Pl 11.56 M	20 G. N. 20 Passenger Daily A 7.43 pm 7.41 7.39 7.34 7.31 8 T. R/RUCTIO	ELEVATO BELKI 56 Passenger Daily A 11,02Pt 10.59 10.57 10.54 10.51	EASTWA	EET.
N Sand Yard Limits.	Car Capacity of Sidings.	Election Numbers.	CKEI 7. Distance from 6.5. Control Ave. 6.1. 6.2. 4.5.	Time Ta Apri S T A Telegraph	ble No. 1 28, 1957 TION: 1 28, 1957 TION: 1 28, 1957 AND AVE. 1 28 WITCH 1 0,7 1 0 S STATION 1 0,8 AHA COIN 1 COVERN	243 Calls NNECTIC HED BY	SECO 66 Passenger Daily DN AND L. S. T. &	T. RAILW OND SU 36 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38 6.35 6.32 BELKNAL A T. RY.	P STREE	Passenger Daily A 7.25AII 7.23 7.22 7.18 7.15 T TRAINABLE AN	FIRST 24 G. N. 24 Passenger Daily A 11.56AM 11.52 11.47 11.45 NS USING	CLASS 96 Omaha 518 Passenger Daily A 12.02Pl 11.56 M	20 G. N. 20 Passenger Daily A 7.43 pm 7.41 7.39 7.34 7.31 8 T. R/RUCTIO	Passenger Daily A 11,02P 10.59 10.57 10.54 10.51 Allway	EASTWA	EET.
Z and Yard Limits.	Car Capacity of Sidings.	CONTRACTOR Mambers.	CKEI 1.0 1.1 1.1 1.2 1.3 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Time Ta Apri S T A Telegraph	ble No. 1 28, 1957 TION: 1 28, 1957 TION: 1 28, 1957 AND AVE. 1 28 WITCH 1 0,7 1 0 S STATION 1 0,8 AHA COIN 1 COVERN	243 Calls NNECTIC HED BY	SECO 66 Passenger Daily DN AND L. S. T. &	T. RAILW OND SU 3 6 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38 6.35 6.32 BELKNA 4 T. RY. Ms 6.30 6.25	P STREETIME TA	Passenger Daily A 7.25 M 7.23 7.22 7.18 7.15 T TRAIN BLE AN 5 7.14 7.10	FIRST 24 G. N. 24 Passenger Daily A 11.56 M 11.54 11.45 VS USING SPECI 11.43	CLASS 96 Omaha 518 Passenger Daily A 12.02 PM 11.59 AM L 11.56 AM G L. S. T	20 G. N. 20 Passenger Daily A 7.43 Pl 7.39 7.34 7.31 8 T. R/ RUCTIO	Fassenger Daily A 11,02 M 10.59 10.57 10.54 10.51 A 11,02 M S 10.49 10.46	EASTWA	EET.
TA Sand Yard Limits.	ERATE Car Capacity of Sidings.	CONTRACTOR Mambers.	0 CKEI mous according to the control of the contro	Time Ta Apri S T A Telegraph	ble No. 1 28, 1957 TION: 1 28, 1957 TION: 1 28, 1957 AND AVE. 1 28 WITCH 1 0,7 1 0 S STATION 1 0,8 AHA COIN 1 COVERN	243 Calls NNECTIC HED BY	SECO 66 Passenger Daily DN AND L. S. T. &	T. RAILW OND SU 3 6 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38 6.35 6.32 BELKNA 4 T. RY. Ms 6.30 6.25	PASSENGER A 7.43 A 7.39 L 7.37 A PSTREETIME TA	Passenger Daily A 7.25 M 7.23 7.22 7.18 7.15 T TRAIN BLE AN 5 7.14 7.10	FIRST 24 G. N. 24 Passenger Daily A 11.56 M 11.54 11.45 SUSING SPECI s 11.43 11.40	CLASS 96 Omaha 518 Passenger Daily A 12.02 PM 11.59 AM L 11.56 AM G L. S. T	20 G. N. 20 Passenger Daily A 7.43 Pl 7.39 7.34 7.31 8 T. R/ RUCTIO 5 7.30 7.24	Fassenger Daily A 11,02 M 10.59 10.57 10.54 10.51 A 11,02 M S 10.49 10.46	EASTWA	EET.
X X X X X X X X X X X X X X X X X X X	ERATE Car Capacity of Sidings.	CONTRACTOR Mambers.	0 CKEI mous according to the control of the contro	Time Ta Apri S T A Telegraph	ble No. 1 28, 1957 TION: 1 28, 1957 TION: 1 28, 1957 AND AVE. 1 28 WITCH 1 0,7 1 0 S STATION 1 0,8 AHA COIN 1 COVERN	243 Calls NNECTIC HED BY	SECCO 66 Passenger Daily N AND L. S. T. & 4.09 L. 4.00A	T. RAILW OND SU 36 G. N. 36 Passenger Ex. Mon. A. 6.43 M 6.40 6.38 6.35 6.32 BELKNAI A. T. RY. M. S. 6.30 6.25 M. L. 6.20 M	PASSENGOR A 7.43 A 7.39 L 7.37 A P STREETIME TA	SION SION	FIRST 24 G. N. 24 Passenger Daily A 11.56 AM 11.52 11.47 11.45 NS USING D SPECI 11.43 11.40 L 11.33 AM	CLASS 96 Omaha 518 Passenger Daily A 12.02PM I1.59AM L I1.56AM G L. S. T	20 G. N. 20 Passenger Daily A 7.43 M 7.41 7.39 7.34 7.31 & T. R/RUCTIO s 7.30 7.24 L 7.19 M	Fassenger	EASTWA	EET.
X X X X X X X X X X X X X X X X X X X	ERATE Car Capacity of Sidings.	CONTRACTOR Mambers.	0 CKEI mous according to the control of the contro	Time Ta Apri STA Telegraph	DIRAW S TRAIN ble No. 1 28, 1957 T I O N 9 Diffices and 1ELD AVE. 0.8 OR STATIC 0.8 AHA COIN.	243 Calls NNECTIC HED BY DN Pon P	SECCO 66 Passenger Daily N AND I L. S. T. & 4.09 L. 4.00 Daily	T. RAILW DND SU 36 G. N. 36 Passenger Ex. Mon. A 6.43 M 6.40 6.38 6.35 6.32 BELKNA AT. RY. Ms 6.30 6.25 ML 6.20 M Ex. Mon.	Daily Daily Daily Daily	ETWEEN OF SION 58	BRIDG MAHA C FIRST 24 G. N. 24 Passenger Daily A 11.56 M 11.54 11.45 MS USING SPECI s 11.43 M Daily Dail	CLASS 96 Omaha 518 Passenger Daily A 12.02 PM 11.56 AM G L. S. T AL INST	20 G. N. 20 Passenger Daily A 7.43 Pl 7.39 7.34 7.31 8 T. R/RUCTIO 5 7.30 7.24 L 7.19 Pl Daily	Fassenger	EASTWA	EET.

Speed Restrictions-

ALL SUBDIVISIONS.

l.	Speed Restrictions—	
	Maximum Speeds Permitted: Passenger trains	
	The above speeds are subject to the restrictions of maximum speeds in miles per hour as shown by zones under each subdivision.	
	Where automatic block and interlocking rules and signal indications require movement at restricted speed, such movement must be made prepared to stop short of train, obstruction or switch not properly lined and be on lookout for broken rail or anything that may re-	
	quire the speed of a train to be reduced, but a speed of 15 MPH must not be exceeded.	
	The definition of Restricted Speed, as designated on page 8 of the 1945 Edition of the Consolidated Code of Operating Rules, will continue to apply except where automatic block and interlocking rules and signals govern as specified above.	
	Reduce speed limits, within the zones listed, are designated by advance-warning signs (diagonally upwards), Reduce speed signs (square with clipped corners) and Resume speed signs (vertical).	
	The Advance-warning signs are, except as otherwise specified, located approximately 3000 feet in advance of the Reduce speed signs, and the numerals on both signs indicate in miles per hour the maximum speed permitted from the Reduce speed sign to another Reduce speed limit, or to a sign indicating a higher speed, or to a Resume speed sign.	
	If speeds authorized by zones or by Reduce speed signs are greater than that prescribed below for certain trains or engines, such trains or engines must not exceed the prescribed speeds.	
	Locations where reduced speeds are required, but not indicated by signs, are listed under the zones of maximum speeds permitted for each subdivision.	
	All trains and engines, except as otherwise specified: Through crossovers, turnouts and gantlets, except where fixed signals provide otherwise	
	Handling steam wrecking cranes, pile drivers, locomotive cranes and similar equipment	
	Engines— Handling Running Classes— trains light.	
	All A and Q (except on passenger	
	Z-5, Y, Y-1	
	Steam switch engines, without engine trucks, under all conditions	
	(This restriction does not apply when engines are used as helpers not on head end of train.)	
	Diesel-electric engines— 35 MPH. 35 MPH. No. 98. 35 MPH. 35 MPH. No. 100. 40 MPH. 40 MPH.	
	100 series except No. 100	
	400 and 600 series	
	No. 525	
	THE REPORT OF REDIT	
	Nos. 550-551	
	Nos. 550-551 .75 MPH. 65 MPH. 700 series .45 MPH. 45 MPH. 800 series .60 MPH. 60 MPH.	
	Nos. 550-551 .75 MPH 65 MPH 700 series .45 MPH 45 MPH 800 series .60 MPH 60 MPH 850 series .65 MPH 65 MPH 6000, 7000, 200 and 300 series .65 MPH .65 MPH	
	Nos. 550-551	

Main Line—With main and side rods removed: All A and Q and classes Z-6, Z-7 and Z-8
With main rods removed and side rods in place: All A and Q and classes Z-6, Z-7 and Z-8
Branch Lines—With either or both main and side rods
removed:
All A and Q classes
All other classes
On bridges—With either or both main and side rods removed; Steam switch engines, without engine trucks15 MPH. Other Steam engines20 MPH.
In the event the above speeds are in excess of 50% of the permissible speed for operating the engine in working order over any bridge carrying speed restrictions, speed on such bridges shall be 50% of the permissible speed for engine in working order.

Dead steam engines going to shops or being transferred from one district to another with all rods up or in place, the piston rod parted from the crosshead and removed and the valve motion disconnected and blocked, may be moved in trains at not to exceed the permissible speed of freight trains operating in the territory over which the engines are to be moved, or the operating speed restriction for track or bridges for that class of engine, whichever is the lower.

Engines handled in this manner when coming from shops must reexceed the operating speeds specified for engines coming from shops under steam.

Diesel-electric engines may be handled dead in trains at not to exceed the authorized operating speed specified for such engines.

Bridge or other restrictions must be observed for these engines the same as when in operating condition.

2. Single and Double Headers; operation—track and bridges—general. Where there are no governing restrictions specified for double headers in the special instructions for each subdivision, they will be governed by the most restrictive instructions applicable to a single engine when of the same class and to the heavier engine when of different classes.

Where double header restrictions are specified, double headers of different classes of engines will be governed by the restrictions applicable to double headers of the heavier class.

When necessary to doublehead a diesel-electric engine with a steam engine, except in case of emergency, the steam engine must be placed behind the diesel engine.

When handling diesel-electric single unit road switcher or switch engines dead in freight trains, they shall be separated from the road engine and each other by at least one freight car. This does not apply to diesel-electric engines of two or more units.

When two, Four-Unit Diesel locomotives are used to double head freight trains, the leading engine only will apply power to start train, or to make backup movement with cars.

To avoid possibility of fire or damage to traction motors, dieselelectric engines must not be permitted to pass over or to stand on cinder pits containing live fire or hot cinders.

Under no circumstances should diesel-electric engines pass through water which is deep enough to touch the bottom of the traction motor frame. When passing through water, movement must always be at very slow speed (2 to 3 MPH).

Where multiple-unit diesel-electric engines are used in freight service, both the fireman and the head brakeman shall not be absent at the same time from the leading cab while the train is under way on main track between stations.

When two or more Diesel units are coupled in multiple unit operation, the number of the leading unit only will be displayed in accordance with the provision of Rule 24 and used in train orders as prescribed by Rule 206.

Wrecking cranes—250 tons, 45 to 48 inc. must not be coupled directly to engine or tender of engines Classes A-2 to A-5 inc. or Z-5 to Z-8 inc., but must be separated from them by at least two cars of not over 169,000 pounds total weight, for movement over bridges

Use of Mars headlight on engines so equipped-The Mars headlight can be displayed with either stationary or oscillating white light at the same time that the standard headlight is in use, but cannot be displayed with either stationary or oscillating red light when the standard headlight is in use.

The Mars white light may be used in a stationary position as a substitute headlight in case of failure of the standard headlight,

but will normally be used as an oscillating light during the time full display of standard headlight is required.

The Mars oscillating red light will be used when head end protection is required, either by day or by night by engineer control, if the train becomes disabled or is stopped suddenly due to unusual occurrence with the possibility of an adjacent track being obstructed, or if it overruns the clearance point at a meeting or waiting point, or at the end of double track or at a junction, or in any other emer-

gency situation.

The engineer of an approaching train, finding oscillating red light displayed, must stop and then be governed by conditions existing. If on an adjacent track which he finds unobstructed and safe for operation, he may proceed at restricted speed until the standing

train displaying the oscillating red light has been passed.

The Mars red light shall be displayed in stationary position when a train is occupying the main track at a meeting point with an opposing train until the headlight of the opposing train has been dimmed, per Rule 17 (B), after which the red headlight shall be extinguished, and the standard white headlight turned on dim until opposing train

is into clear on siding.

The use of the red headlight does not in any manner relieve the train or engine men of responsibility for compliance with the provisions

of Rules 99 and 102.

An oscillating rear end red light on Great Northern passenger trains using Northern Pacific tracks between Duluth and Central Avenue, is used except-

When train is standing at the initial and terminal stations. When switching is to be performed from rear end of train.

When train is on siding to be passed by another train.

When operating in double track or in territory where another train is approaching from the rear on an adjacent track, but not until the flagman has definitely ascertained that the approaching train is running on the adjacent track.

Engineer of an approaching train finding such rear end oscillating red light displayed must immediately stop and, if running on an adjacent track, will not proceed until it has been ascertained that track is clear, and will then proceed at restricted speed until train has been passed.

Rule 6(A) is modified to include the following variations of the letter "W" which indicate:

"W" (full-faced type) - Water facilities for both steam and Diesel power.

(capital type) (small type) -Water facilities for steam power only.
-Water facilities for Diesel power only. "W"

Rule 19, Figs. 2 to 9, inclusive, and Rule 19 (B) of the Consolidated Code of Operating Rules and General Instructions, revised 1945, are supplemented as follows:

"When the rear unit of a train is equipped with built-in electric markers, or electric signal lamps, they must be lighted by day and by night to be considered as markers, and the requirement for showing green to the front or direction of movement and green to the side will not apply.

"Train crews arriving at terminals must not extinguish the built-in markers, or electric signal lamps used as markers, until the train has been delivered to connecting crew or is clear of the main track and the switch is closed."

- 6. Rule D-97 applies on all Sub-divisions.
- Rule 606: Emergency Signals are not used at inter-lockings or drawbridges operated by the Northern Pacific Railway.
- Cars will not be handled behind light-weight observation cars except in emergency or when so authorized by the Superintendent. In such cases passengers shall not be permitted to pass between such cars while train is in motion due to the unprotected opening.

Gas-electric or diesel-electric motor cars, when handled dead in freight trains, must be behind caboose.

4-wheel scale test cars must be handled only in local freight trains. All scale test cars must be placed immediately ahead of caboose.

Instructions for Handling Pile Drivers, Cranes, Derricks, Shovels or Similar Equipment of the Swinging or Pivoting Type are as follows:

- When such equipment is moved on their own wheels they shall be prepared and carded in accordance with current A. A. R. Loading Rules unless some condition exists which prevents those requirements being complied with.
- Equipment properly prepared and carded may be moved at normal freight train speeds unless there is some condition that prevents it, and in that event the maximum permitted speed shall be noted on the waybill.
- Such equipment when not prepared and carded shall be handled at speeds not to exceed 30 miles per hour.
- Such equipment that is geared for self-propulsion shall have the driving gears disconnected or removed.
- Such equipment that is Company-owned that requires speed to be restricted shall be covered by a message to the train crew stating the maximum speed permitted.

Open cars loaded with material which may shift, such as poles, pipe, timbers, etc., shall not be placed immediately next to diesel-electric engines nor to cabooses in trains.

- Precautions must be taken on double track to prevent accidents from swinging doors or other loose construction attached to cars or engines. Trains handling logs must stop when being met or passed by passenger trains.
- 10. Locomotives and cars equipped with roller bearings shall not be allowed to stand alone without brakes being applied.

Roller bearing failures on cars or locomotives equipped with roller bearing boxes may be due to lack of oil or grease. If the box is not blazing, the oil plug in the cover should be removed and heavy oil added and plug replaced. Oil must never be added to a box that is blazing. Grease lubricated roller bearing boxes have grease plugs locked with a metal strap which must be cut off with chisel before plug can be removed. In case of a hot box, oil should be added and the plug replaced; train should proceed at reduced speed and care exercised until it is apparent the box is running cool.

When operating B-24, B-16, or Budd R. D. C. Car in Automatic Block Signal territory, or on crossing protected by electric signals, engine must be moved at least one car length after making station stop where sand was used.

Electric Switch Locks-Two types in service-To operate either type, unlock and open the door.

On locks stenciled "FORCE DROP LOCK", turn lock handle to the plate reading "MOVE LEVER HERE AND WAIT FOR UNLOCK", then follow instructions in sections (a) (b) (c) (d).

On other electric locks, follow instructions in sections (a) (b) (c) (d) after door is opened.

- If indicator shows proceed or "UNLOCKED": Turn lock handle to left until it rests on stop block. Line switch in usual manner and movement may be made at once
- (b) If indicator shows stop or "LOCKED" and no conflicting train movement is evident.

Unlock time release box (if provided) and push the button to start time release. After time release has completed operation, indicator will normally show proceed or "UNLOCKED".

Turn lock handle to left until it rests on stop block.

Line switch in usual manner and movement may be made at

(c) After final movement over switch is made: Restore and lock switch in normal position.

Turn electric lock handle to right until it rests on stop block.

Close and lock doors of time release box (if provided) and electric lock.

Exception-If indicator fails to show proceed or "UNLOCK-ED" after time release (if provided) has completed operation, and if electric lock is provided with emergency release located at left of indicator:

> Remove wire seal and operate emergency release lever. Wait three (3) minutes after operating emergency release lever, then line switch for movement in usual manner.

> Immediately notify train dispatcher so he may call signal maintainer to reset emergency release, as signals will remain at stop until repairs are made.

Spring Switches-Unless otherwise specified, the normal position of spring switches

When the target of a spring switch shows red to an approaching train or engine a trailing point movement actuating the spring

switch points must not be made.

Signal operation at spring switches equipped for switch key operation

The normal indication of main track signal is Proceed. The normal indication of siding signal is Stop. To clear the siding signal when train is ready to enter main track, insert switch key in control box and turn to right. If route is clear the siding signal will immediately clear. If siding signal does not clear by switch key operation, open release box and push the button which will put the time release mechanism into operation. After time release has operated, the siding signal will clear if there is no conflicting train movement.

The release box door must be left open until leading wheels of train on the siding have passed the siding signal, then close and lock the release box door. If the siding signal has been cleared and train on the siding is not ready to depart, if necessary to clear signals for a main track movement, open the release box door and push the button which will start the time release mechanism. After the time release mechanism has started to operate, close and lock the release box door. When a train, light engine or any piece of equipment moves through a spring switch in such a manner as to throw the points, the conductor or a member of the crew shall observe if the signal governing movements in the opposite direction moves to the approach or the proceed position. If it remains in the stop position and there are no other train movements in evidence that would cause it to remain in that position, the dispatcher shall be notified from the nearest open telegraph office that the signal remained in the stop position and also, when practicable, the first opposing train cautioned.

- 13. First class trains will observe Rule 93 the same as is required of second and inferior class, extra trains and engines. Second and inferior class, extra trains and engines may run ahead of first class trains which are five minutes or more late without train order authority, avoiding delay to such trains to the greatest practicable extent.
- 14. Extra trains and engines may move in either direction on single track and with the current of traffic on double track without train order or double track clearance authority, except between 72nd Ave. West and New Duluth.
- The D. T. Ry. main track is the northmost track between the Hanna Coal Dock crossing and connection with Grassy Point main track. All switches leading from this track, when not in use, will be left lined for D. T. Ry.
- All trains and engines using D. T. Ry. main track from connection of Missabe coal dock to east end of Zenith Furnace Company's lead, on Grassy Point line, will move in both directions at restricted speed, expecting to find the D. T. Ry. main track occupied.
- 17. D. T. Ry. connection, located at east end of Zenith Furnace Company's lead, Grassy Point line, will be considered a railroad crossing. Trains and engines using this connection will come to a full stop and make sure that track is clear before proceeding
- 18. Bulletin Stations-

Union Depot, Fifth Avenue Yard Office, Rices Point Duluth. Yard and Roundhouse, West Duluth Roundhouse. Soo Line Passenger Station.

Superior. Soo Line Yard and Roundhouse.

- 19. Standard Time Clocks-Duluth-Union Depot, Rices Point Yard Office and Round House.
- 20. Watch Inspectors-

Duluth-Kanter Jewelers, 325 W. Superior Erwin Moen, 1908 W. Superior Nold Jewelers, 414 N. Central H. W. Schmidt, 25 West Superior St. Security Company, Inc., 307 W. Superior St. Superior-

Peters' Jewelry, 1126 Tower Ave. Howatt Jewelers, 1425 Tower Ave.

FIRST SUBDIVISION

- 1. Speed Restrictions-Maximum Speeds Permitted Freight Passenger Zone-Between: First class trains, within yard limits....................... Restricted Speed. East D. M. & I. R. Jct., and West Duluth Jct. 30 30 15
- Bridge and Engine Restrictions—Between Duluth and West Duluth Junction—Engines classes A-2 to A-5 inc. and Z-5 to Z-8 inc., not permitted. All bridges—Trains handling wrecking cranes of 250 tons, or heavier, heavier than Class Q-4 not permitted. Steam engines heavier than10 MPH. Class W.... At Riverside-Steam Engines heavier than Classes L-9 and L-10 not permitted on tracks 1, 3 and 4 at Barnes-Duluth Plant. Door over tracks entering shop building will not clear man on top of car.
- At Duluth-City ordinance prohibits blocking street crossings at 1st Ave. East and 5th Ave. West for more than 5 minutes; or of any other crossing for more than 10 minutes. Engine whistle will not be used between 3rd Ave. East and 5th Ave. West, or between 14th Ave. West and 85th Ave. West (except 85th Ave. West) except as an alarm or warning, or to signal towerman, to call for semaphore signals, as a safety precaution in backing cars or engines, or as a signal in testing air brakes. No engine or train will run within the city without having bell ringing while in motion, and approaching any street or avenue.

Westbound freight trains made up in Bridge Yard departing via Terminal First Subdivision will proceed onto Westward main track through Eighteenth Avenue Crossover. Switch tender at Garfield Avenue will line switches after departure of train.

Train No. 66 is assigned Track No. 1 at Duluth Union Depot. Train No. 56 is assigned Track 5 and shall stop clear of crossover between Tracks 4 and 5 to permit return of engine to roundhouse via crossover and Track 4. Train No. 55 is assigned Track 2.

- At Garfield Avenue—Normal position of junction switches will be for First Subdivision. Trains will stop not less than two hundred (200) feet from Junction switches and not proceed until route is clear.
- At Nineteenth Avenue West-Trains using the Dick tracks must not block crossing.
- At Twenty-first Avenue West-Telephone at crossover-Eastward trains call yard (3 rings) for route when necessary.
- 7. At West D. M. & I. R. Jct. Interlocking-Trains will call for route as follows:
 - Martins track to D. M. & I. R. yard. 000 000
 - D. M. & I. R. yard to Martins track. Martins track to westward main. 000-
 - oooo Martins track to D. T. main. D. T. main to Martins track. 0000
 - Westward main to D. M. & I. R. yard. **—** 0 D. M. & I. R. yard to eastward main.
 - -o o o Eastward Main to Martin's track. Through main track movements.

- 8. At West Duluth—Train No. 65 will stop to clear Central Avenue crossing. Train No. 66 will stop with head car immediately opposite East end of station platform, thus avoiding blocking of Central Avenue crossing.
- At West Duluth Jct.—Switch at west end wye will be kept set and locked for First Subdivision.

Yard engines will use west leg of wye and Fond du Lac line but will not leave cars on these tracks.

Switch at end of double track is dual control. Normal position is for the westward track.

To secure a restricting proceed interlocking indication, as per Rule 601-F, Figure (8), at the Westward Dwarf Signal, covering reverse movements on eastward track, engines or trains moving eastward through the dual control switch must, before reversing direction, clear the track circuit, the east end of which is located just east of the switch leading to the new Western Brass Company near 61st Avenue West.

Between West Duluth Jct. and Riverside—Between 72nd Ave. West and Riverside Jet., trains will run via D. T. Railway, and will be governed by D. M. & I. R. Railway Time Table and Special Instructions. Trains will secure D. M. & I. R. Clearance Card or Branch Train Order Card at West Duluth.

Transfers operating between 72nd Avenue West and New Duluth will be given train orders at West Duluth Passenger Station, covering Westward movement from 72nd Avenue West to Riverside Junction via "DT" Line. On arrival at New Duluth, Conductor will call the Northern Pacific Chief Dispatcher at Duluth, advising estimated time the Transfer will be ready to depart New Duluth on return trip. To facilitate calling, a Northwestern Bell Telephone has been installed in a telephone booth, secured by switch lock, on the station building. This telephone booth must be kept locked at all times. Before departing New Duluth on return trip, Conductors will pick up orders covering return movement from Riverside Junction to 72nd Avenue West in bill box, secured by a switch lock, located on station building at New Duluth.

- 11. Yard Limits—Between East D. M. & I. R. Jct. at Fifth Ave. East and Lake Superior Division yard limit sign west of West Duluth Jct.
- Spring Switches—West Duluth Jct., at junction of First and Third (Terminal) Subdivisions, normal position for Third (Terminal) Subdivision main track.
- Register Stations—Duluth Union Depot for trains arriving at or departing from Fifth Ave. Yard or Union Depot, Rice's Point Yard office for other trains. West Duluth.
- Register Exceptions-At Duluth first class trains arriving may register by Form 608, using tube at foot of east stairway for delivery to operator in "DU" office.

At West Duluth trains register by form 608. A check of register on form 602 may be issued by operator when authorized by train dispatcher, either instead of, or in addition to, train order check.

Clearance Exceptions—Trains originating at East D. M. & I. R. Jct., Garfield Ave., 20th Ave. West, West D. M. & I. R. Jct., D. W. & P. Jct., West Duluth Jct. and New Duluth will not require

SECOND SUBDIVISION

1.	Speed Restrictions—	Maximum Speeds	Permitted
	Zone Between:	Freight	Passenger
	First Class trains, within yard limits Garfield Ave., and Central Ave Superior and Central Ave., Great Not engines Class P-2	45 rthern 40 40	eted Speed. 55
	At Superior—Over switches at Belknap and Omaha Conn		MPH.

- 2. Bridge and Engine Restrictions—Engines classes A-2 to A-5 inc. and Z-5 to Z-8 inc., not permitted.
- At Garfield Avenue—Normal position of junction switches will be for First Subdivision. Trains will stop not less than two hundred (200) feet from junction switches and not proceed until route is clear.

At Rices Point—Spring switch not equipped with either spring switch target or facing point lock is located 900 feet south of coal dock on roundhouse lead. Target indication—

Yellow-Straight track. Green—Roundhouse lead.

Normal position of switches designated below is as follows: South End Rices Point Yard,

switch from B to C yard lead (top switch). when lined for B yard lead; No. 26 and 31 crossovers on Hump

(A Yard)..... when lined for Hump (A Yard) lead; No. 26 and 31 crossovers on Load

(B Yard) lead...........when lined for Load (B Yard) lead. North End Rices Point Yard,

switch off outside lead for

lead to C Yard.......when lined for Load (B Yard) lead; Crossover switch on inside lead..... when lined for inside lead; Crossover switch off outside lead..... when lined for outside lead. Roundhouse, hand throw switches No. 2 and No. 4 from the outgoing roundhouse tracks...............................when lined for lead Crossover switches from yard tracks to main track must be set for yard tracks when not in use, except where otherwise provided.

At Rices Point Interlocking—Westward dwarf signal is located between Hump (A Yard) Lead and Load (B Yard) Lead at west end of yard. Top light governs movements to westward track and crossover to eastward track; bottom light governs movements to west end of Hump (A Yard) Lead. Normal position of east switch of crossover from Hump (A Yard) Lead to westward track is for westward track, and must be kept lined and locked in this position when not in use.

Push-button on mast of eastward home signal. If home signal indicates Stop, push-button should be operated, and movement governed by signal indication.
Trains will call for route as follows:

For through main track movements		
Eastward track to westward track	ი &ხ	00
Eastward track to yard	0 &	000
Yard to westward track	000 &	00
Yard to eastward track		
Westward track to eastward track	00 &	0
Westward track to yard	00 &	000

Between Bridge Switch and Elevator Station, St. Louis River Bridge—Interlocking signals govern use of tracks.

Single track over Minnesota Draw.

The three-light Home signal on eastward track west of Minnesota Draw indicates position of double track switch, position of draw and route:

Cop Light—C. St. P. M. & O. Middle Light-Great Northern Bottom Light—Northern Pacific

The two-light Home signal on westward track east of Elevator Station indicates route:

Top Light—Straight main track. Bottom Light—Great Northern freight track.

Westward trains entering onto Minnesota Draw and Eastward trains entering onto Wisconsin Draw will be governed by signal at the approach and, if proceed signal is received, will not be required to stop. During period of open navigation on St. Louis River, westward trains will stop before entering onto Wisconsin Draw and eastward trains will stop before entering onto Minnesota Draw. Maximum length of trains permitted over Minnesota and Wisconsin Draw spans during period of open navigation is 1355 feet which is equivalent to twentysix (26) average freight cars, road engine, caboose and one helper engine.

During closed season of navigation it will not be necessary for trains or engines to stop at either side of drawbridge when signals indicate "Proceed" and car limit restrictions will not apply.

- At Superior—City ordinance prohibits blocking any street crossing for more than 10 minutes, except in case of unavoidable breakdown.
- Spring Switches—Superior, at west end of Brewery Lead, normal position for main track. To clear Brewery Lead signal when main track signal is displaying proceed indication, open release box and push the button, which will put time release mechanism into operation. After time release has operated, Brewery Lead signal will clear. Release box door must be left open until leading wheels of train on Brewery Lead have passed Brewery Lead signal, then close and lock the release box door. If Brewery Lead signal has been cleared and train on Brewery Lead is not ready to depart, if necessary to clear signal for a main track movement, close the release box door.

- 9. At Central Avenue—No. 1 track will be used as siding. When helper on Westward trains takes water, road engine will pull train up to clear interlocking, and wait for helper to take water and recouple to train. When setting out or picking up, trains must not block 58th Street, and Tower Avenue crossings.
- 10. Yard Limits-From Garfield Ave. to yard limit sign west of 28th Street, Superior, and from yard limit sign east of Central Ave. to the yard limit sign just east of Soo Line crossing on Terminal Fourth Subdivision, and yard limit sign west of Central Ave. on Second Subdivision of Lake Superior Division.
- Derail Switches-At approach to Minnesota Draw from Duluth. At Elevator Station. At Superior-Winter St. just opposite freight house.
- **Register Stations:** Rices Point for second class and inferior trains, except passenger extras. Central Avenue.
- Register Exceptions—At Central Avenue trains register by form 608. A check of register on form 602 may be issued by operator when authorized by train dispatcher, either instead of, or in addition to, train order check.
- Clearance Exceptions:

Trains originating at Garfield Ave., Rices Point (Yard), Bridge Switch, Elevator Station, Omaha Conn. and Belknap St. will not require clearance.

At Central Ave. eastward trains will not require clearance if train order signal is in the proceed position. Westward Great Northern trains enroute to Great Northern tracks, at the Interlocking, not governed by train order signal.

THIRD SUBDIVISION

1.	Speed Restrictions—	Maximum Speeds	Permitted
	Zones—Between:		Passenger
	First class trains, within vard limits	Restric	ted Speed.
	West Duluth Jct. and Zenith Furnace.	30	ฮูป
	Zenith Furnace and L. S. T. & T. Jct	40	40
	At West Duluth Jct., around east leg of	t wye	been B bet
	and passing Zenith Furnace Plant		nea opeea.

- 2. Bridge and Engine Restrictions—Engines classes A-2 to A-5 inc. and Z-5 to Z-8 inc., not permitted.
- At West Duluth Jct.—Normal position of switches on east leg of wye is for Third (Terminal) Subdivision main track.
- At Berwind Jct. Interlocking-

Trains will call for route as follows: To and from D. W. & P. **—** 0 To and from Soo Line. -- 00

Straight track (N. P.)

To and from Mike's Lead to Main track. 0000

Clearance Exceptions:

Trains originating at West Duluth Jct., Berwind Jct. and L. S. T. & T. Ry. Jct. will not require clearance.

- Spring Switches—West Duluth Jct., at junction of First and Third (Terminal) Subdivisions, normal position for Third (Terminal) Subdivision main track.
- 7. Derails-Winter St. just opposite freight house.
- Yard Limits—Between West Duluth Jct. and yard limit sign west of Grassy Point drawbridge, and between yard limit sign east of L. S. T. & T. Ry. Jct. and Superior.

FOURTH SUBDIVISION

1.	Speed Restrictions—	Maximum Speeds Permitted All Trains
	Zone—Between:	and Engines
	Yard Limit sign east of Allouez	and Central Ave. Restricted Speed ss W-5
	Trains Handling Loaded Ore Car	rs

2. Bridge and Engine Restrictions:

Steam Engines Class W or heavier, over trestle approach to

- 3. At Allouez—Track No. 2 must not be used by ore trains.
- 4. At East End-Normal position of switch at end of double track is for westward trains. The approach signal of interlocking at Newton Ave. is an automatic block signal located on single track and governs the single track to end of double track and the westward track to Newton Ave. interlocking.
- 5. At Newton Ave.—No crossover between eastward and westward main tracks. Between CStPM&O connection at Newton Ave. and East End, the westward track will be used as single track by eastward trains and engines entering at Newton Ave. and by westwar trains and engines. Other eastward movements will be made eastward track.
- 6. At Hill Avenue Yard—Ore trains arriving will stop to clear east end of arriving tracks.

Trains weighing ore on automatic scale will move at about 3 MPH. Semaphore over scale house is operated by weighmaster, and engineers will be governed by its indications:

Green: Proper speed. Yellow: Reduce speed. Red: Stop.

- 7. At Soo Line Crossing—When using Soo Line tracks, Northern Pacific crews must have in their possession and be governed by current Soo Line Duluth and Superior Terminal Division Time Table, a supply of which is maintained at Rices Point Yard office and roundhouse.
- 8. At Central Ave.—Normal position of switch at junction of Fourth and Second (Terminal) Subdivisions, in Great Northern interlocker, is for Second (Terminal) Subdivision.
- 9. Spring Switches—Central Ave.—Normal position of spring switch at end of double track is for eastward trains. Normal position of spring switch at wye connection between Second and Fourth (Te minal) Subdivisions is for direct route to Pokegama. These switches are governed by interlocking signals equipped for switch key signal operation. If use of switch key does not give "restricting signal", proceed according to rule.
- 10. Yard Limits-Tracks between yard limit signs west of East End and east of Allouez, and between yard limit sign east of Central Avenue on Second (Terminal) Subdivision and yard limit sign just east of Soo Line crossing on Fourth (Terminal) Subdivision.
- 11. Register Stations:

Central Ave. Soo Line 21st St. Yard Office, Superior, for D. S. S. & A. Ry.

- 12. Register Exceptions—At Central Ave. trains register by form 608. Eastward ore trains from Lake Superior Second Subdivision will not register. A check of register on Form 602 may be issued by operator when authorized by train dispatcher, either instead of, or in addition to, train order check.
- 13. Clearance Exceptions—Trains originating at Allouez, East End or Hill Ave. will not require clearance. Ore trains from Lake Superior Second Subdivision will not require clearance at Central Ave.

CLEARANCES MAXIMUM

Governing Structure—1st Sub-division, Lake Ave. viaduct. Clearance on	-			LIMIT	OF LOA	LIMIT OF LOAD MEASUREMENT	UREME	=			
balance of sub-division Max. 20'-6' obtains for all				HEIGHT		ABOVE TOP OF	OF RAIL	.,			
2nd Sub-div., St. Louis Bay Bridge No. 2 restricts height of load at 12'-0" wide	1 ft. Wide	2 ft. Wide	3 ft. Wide	4 ft. Wide	5 ft. Wide	6 ft. Wide	7 ft. Wide	7 ft. 6 in. Wide	8 ft. Wide	Max. Height	Max. Width
1st Sub-division, Duluth to New Duluth	18′ 6″	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	12' 0"
2nd Sub-division, Garfield Ave. to Central Ave.	20, 6,,	20, 6"	20, 6,,	20' 6"	20' 6"	20' 6"	20′ 6″	20′ 6″	20′ 6″	20, 6"	12' 0"
3rd Sub-division, W. Duluth Jct. to Superior U D	20, 6,,	20, 6,,	20′ 6″	20' 6"	20' 6"	20' 6"	20' 6"	20′ 6″	20' 6"	20' 6"	12' 0"
4th Sub-division, Alloues to Central Ave	20′ 6″	20, 6,,	20' 6"	20' 6"	20' 6"	20′ 6″	20' 6"	20' 6"	20' 6"	20' 6"	12' 0"
Governing Structure—1st Sub-division, Lake Ave. viaduct. Clearance on				LIMIT	OF LOAD		MEASUREMENT	Ŀ			
balance of sub-division Max. 20-6" obtains for all				HEIG	HT ABO	HEIGHT ABOVE TOP OF RAIL	OF RAII	. 3			
2nd Sub-div., St. Louis Bay Bridge No. 2 restricts height of load at 12'-0" wide		8 ft. 6 in. Wide	9 ft. Wide	9 ft. 6 in. Wide	10 ft. Wide	10ft. 6in. Wide	11 ft. Wide	11ft, 6in. Wide	12 ft. Wide	Max. Height	Max. Width
1st Sub-division, Duluth to New Duluth		18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	18' 6"	12' 0"
2nd Sub-division, Garfield Ave. to Central Ave.		20' 6"	20' 6"	20′ 6″	20' 6"	20′ 6″	20, 6"	20′ 4″	20, 2,,	20, 6"	12' 0"
3rd Sub-division, W. Duluth Jct. to Superior U. D.		20′ 6″	20′ 6″	20′ 6″	20′ 6″	20' 6"	20' 6"	20′ 6″	20, 6,,	20' 6"	12' 0"
4th Sub-division, Allouez to Central Ave		20′ 6″	20′ 6″	20′ 6″	20' 6"	20′ 6″	20′ 6″	20, 6,,	20' 6"	20' 6"	12' 0"
Note: Limit of load measurements based on	sed on 52' cars with 42' truck centers.	ith 42' tr	uck cente		its and wi	Heights and widths in table allow 6 inches clearance.	ble allow	6 inches	learance.		

AUTHORIZED SURGEONS

Dr. B. I. Derauf, Chief Surgeon. . . . St. Paul. Dr. A. McEwan, Dr. C. H. Decker, Associate Surgeons, N. P. B. A. Hospital Dr. Donald Derauf, 1515 Charles Ave., Dr. C. J. Hedlund, Dr. H. S. Proud. St. Paul.

SPECIALISTS

St. Paul-Dr. L. G. Edwards, 1039 Lowry Bldg. Dr. R. H. Monahan (Oculist), 1023 Lowry Bldg. Dr. L. T. Simons, Eye, Ear, Nose & Throat, 1039 Lowry Bldg.

Dr. E. L. Bauer (Ear, Nose & Throat), 621 Lowry Bldg. Minneapolis-

Dr. R. C. Horns, Oculist, 1137 Medical Arts Bldg.

Duluth-Dr. M. F. Fellows, Oculist & Aurist, 1209 Medical Arts Bldg.

Superior-Dr. T. J. Doyle, Eye, Ear, Nose & Throat, 1507 Tower Avenue

SURGEONS

Duluth-Dr. C. L. Haney, 2004 West Superior St. Dr. Noel Tosseland, 900 Medical Arts Bldg. Dr. C. M. Smith, 416 Medical Arts Bldg. Dr. A. J. Spang, 1930 W. Superior St.
Dr. J. S. Spang, 1930 W. Superior St.
Dr. J. S. Spang, 1930 W. Superior St.
Dr. Wm. M. Spang, 1930 W. Superior St.
Dr. D. R. Seifert, 1930 W. Superior St. Superior-

Dr. J. W. McGill, 1225 Tower Ave. Dr. Victor E. Ekblad, 1507 Tower Ave.

C. M. ST. P. & P. RY. SURGEONS

Dr. Cyril M. Smith, 416 Medical Arts Bldg., Duluth

LOCATION OF STRETCHERS

East End Station. Central Avenue Station. Superior Freight Station. Duluth-Fifth Avenue Yard Office, Union Depot, Store Room. Tool Car, Car Shops, Roundhouse. West Duluth Station. Superior Ore Dock.

NOTE

N. P. B. A. physicians and surgeons, when called upon, will attend to all cases of sickness and accident to employees, passengers and others. In a case of illness, or of injury unrelated to railway operation to other than N. P. B. A. members, surgeon should endeavor to collect a reasonable fee for service from person ttended. If unable to collect, Chief Surgeon should be notified.

Where injuries, to other than N. P. B. A. members, are directly related to railway operation, charge for service should be sent to the General Claim Agent of the railway company.

In case of emergency, proper aid should be procured until arrival of local surgeon, when case must be placed in his hands.

RAILROAD CROSSINGS AND INTERLOCKINGS.

First Sub-division

West D. M. & I. R. Jct., Interlocking. Soo Line Crossing, Automatic Interlocking. D. W. & P. Jct., Interlocking. West Duluth Jct., Automatic Interlocking. Morgan Park, Minnesota Steel Co. Crossing.

Second Sub-division

Rices Point, Interlocking.
Bridge Switch, Interlocking.
St. Louis River Drawbridge;
Minnesota Draw, Interlocking.
Wisconsin Draw, Interlocking.
Elevator Station, Interlocking.
Superior, Winter St., near Omaha Connection.

Third Sub-division

Zenith Furnace—D. M. & I. R. Ry. Crossing.
Berwind Jct., Interlocking, junction with Soo Line and D. W. & P.
Grassy Point Drawbridge, Interlocking.
G. N. Ry. Crossing.
L. S. T. & T. Ry. Jct.

Fourth Sub-division

Allouez—N. W. C. Crossing, Interlocking. Newton Avenue—C. St. P. M. & O. Crossing, Interlocking. Soo Line Crossing, Interlocking.

S. A. ANDERSON,
Asst. Superintendent.

J. C. BERGMAN, Trainmaster.

> J. J. AUGE, Trainmaster.

> > C. E. JOHNSON, Trainmaster-Roadmaster.

> > > E. J. WIGG, Chief Dispatcher.