

#### **COMPANY SURGEONS**

an Allest Older of Mad And Officer	Gt D1 350
Dr. Abbott Skinner, Chf. Med. Officer.	Cl. 4 Mail Officer
Dr. Hugo F. Schroeckenstein, Asst. to	
	St. Paul, Minn.
Dr. Darrell E. Westover	
*Dr. John F. Alden	St. Paul, Minn.
*Dr. Ernest R. Anderson	Minneapolis, Minn.
*Dr. Victor E. Ekblad	Superior, Wis.
Dr. Milton Finn	
Dr. Fred Johnson	
Dr. E. G. Stack	Superior, Wis.
Dr. Raymond J. Spursem	Anoka, Minn.
Dr. Wm. T. Nygren	Braham, Minn.
Dr. G. E. Larson	Cambridge, Minn.
Dr. Gordon C. MacRae	Duluth, Minn.
*Dr. C. H. Coombs	
Dr. R. W. Brockway	Grand Rapids, Minn.
*Dr. John B. Evensta	Grand Rapids, Minn.
Dr. Clarence Jacobson	
*Dr. John J. Muller	
Dr. R. L. Christie	
Dr. Paul J. Keith	Milaca, Minn,
Dr. E. G. Hubin	Sandstone, Minn.
*Dr. G. H. Goehrs	St. Cloud, Minn.
*Dr. V. E. Neils	St. Cloud, Minn.
*Dr. E. J. Schmits	St. Cloud, Minn.
*Dr. Julian F. DuBois, Jr	Sauk Centre, Minn.
*Dr. John C. Grant	Sauk Centre, Minn.
Dr. E. N. Peterson	
*Dr. Charles J. Mock	
*Dr. Luther F. Davis	
Dr. O. F. Ringle	Walker, Minn.
_	•
*Designates also Examining Surgeon.	

#### OPHTHALMOLOGISTS (Eye Dectors)

Dr. Richard C. Horn	Minneapolis, Minn.
Dr. Malcolm A. McCannel	
Dr. John E. Power, Jr.	Duluth, Minn.
Dr. T. J. Doyle	Superior, Wis.
Dr. Roger T. Thompson.	Superior, Wis.
Dr. W. T. Wenner	St. Cloud, Minn.

W. T. SLOAN, Asst. Superintendent.

J. CHRISTIANSON, Chief Dispatcher.

C. W. HAMMER, Chief Dispatcher.

A. Q. FORD, Master Mechanic.

J. A. LEHN, Trainmaster.

R. D. NELSON, Trainmaster.

D. S. KUKULL, Traveling Engineer.

M. L. PURDY, Traveling Engineer.

Scanned from the Dean Ogle Collection

# GREAT NORTHERN RAILWAY COMPANY

### MESABI DIVISION

## TIME TABLE 91

EFFECTIVE 12:01 A.M. CENTRAL STANDARD TIME

Sunday, October 31, 1965

R. H. HEMMESCH, Superintendent.

R. N. WHITMAN, General Manager.

H. J. SURLES,
General Superintendent Transportation.

Printed in U.S.A.

2 WESTWARD FIRST SUBDIVISION												E	CASTWA	ARD	
Car Capacity SECOND CLASS FIRST CLASS								Time Table No. 91		FIRST CLASS SECOND CLASS					
пр	Сар	acity		<u> </u>			from	Effective	Call	from					
N n	_			407	19	23	nce f	October 31, 1965	raph	noe fr	SIGNS	24	20	408	
Station Numbers	Sidings	Other Tracks		Daily	Daily	Daily	Distance Duluth	STATIONS	Telegraph Calls	Distance St. Paul		Daily	Daily	Daily	
05001		82			L 4.45Pm	L 7.30Am		DULUTH	. DU	159.97	RKDNXB	A 11.45Am	а 7.45 <b>р</b> m		<del></del>
	TRAINS BETWEEN ELEVATOR STATION AND DULUTH TERMINAL DEPOT ARE GOVERNED BY NORTHERN PACIFIC, LAKE SUPERIOR DIVISION TIME TABLE														
TRA	INS BE	TWEE	N ELEVATO	DR STATIO	N AND DU	LUTH TER	RMINAL		NORT	HERN P	ACIFIC, LA	KE SUPER	IOR DIVIS	ION TIME	TABLE
							3.23	ELEVATOR STATION	.	156.74					••••
05005		,			s 5.00	s 7.45	4.22	★	· ····	. 155.75	RKPBXO	s II.30Am	<b>s</b> 7 <b>.</b> 30	<b> </b>	•••••
	Yard	<b>56</b> 89					5.41	2.99 2.99	1	154.56	PX 		• • • • • • • • •	[·····	••••
05008		32		l	l	<u></u>	8.40	AF (CENTRAL AVE	<u>.l</u>	. 151.57	V	l	<u> </u>	·	• • • • • • • • • • • • • • • • • • •
FIRST	CLASS.	TRAINS	BETWEEN	CENTRAL	AVE. TOWE	R AND DU	LUTHT	ERMINAL DEPOT ARE GOVERN	ED BY	NORTH	ERN PACIFI	C, LAKE SU	PERIOR D	IVISION TI	VIE TABLE
				L 9.30Pm	ւ 5.08 <b>թ</b> ա	L 7.53Am	8.67	CENTRAL O.27	g su	151.30	RIDNPXJ	A 11.17Am	A 7.13Pm	A 12.12Am	
05010	Yard	297		9.34	5.11	<b>7.</b> 55	10.37	H 1.70 SAUNDERS★.	B	149.60	VRIDNPXJ		7.11	12.08	
								a 3.06 some some some some some some some some				11.10	7.00		
05013			· · · · · · · · · · · ·	9.42	5.14	<b>7.</b> 58	13.43		1	. 146.54	PJ	11.12	7.08	12.02Am	• • • • • • • • • • • • • • • • • • • •
06112	127	10		10.19	5.27	f 8.10	24.71	FOXBORO		. 135.26	P	1 11.00	6.56	11.44	
06100	139	3		10.49	5.38	8.22	36,74	NICKERSON	NS	123.23	NP	10.50	6.46	11.26	<b>.</b>
06096		4				f 8.26	40.65	DUQUETTE	<b> </b>	. 119.32	P	f ·10.46	<b></b>		
06094		12		11.00		f 8.29	43.18	2,53 KERRICK	K	116.79	DP	f 10.43	<b></b>	11.16	
06088	110	14		11.08	5.49	f 8.35	48.93	5.75 BRUNO		. 111.04	P	f 10.36		<b>11.08</b>	
06080	135	25		11.20	5.56	s 8.43	57.31	ASKOV	RD	102.66	DP	s 10.26	6.30	10.56	•••••
06074	134	158		11.28	s 6.03	s 8.53	63.17	SANDSTONE	NA	96.80	DNPWX	s 10.17	s 6.24	10.46	
06065	<b></b> .	22		11.48		s 9.02	71.99	HINCKLEY	н	87.98	DP	s 10.07	ļ <sub>.</sub>	10.31	
06064	146	16		11.49	<b>6.14</b>	[	72.36	HINCKLEY TOWER *	нт	87.61	DNPIV		6.14	10.30	
06057	167	8		12.02Am		f 9.10	80.21	BROOK PARK	ટ્રી	. 79.76	P	f 9.59		10.17	
06056	<u> </u>			12.03	6.23	9.11	80.54	BROOK PARK JCT	<u> </u>	. 79.43	PJ	9.58	6.06	10.16	<u> </u>
06051						f 9.16	8 <b>6.</b> 01	5.47 HENRIETTE	<b> </b>	. 73.96	P	f 9.53	ļ		
06046	107	28		12.21		s 9.21	91.45	5.44 GRASSTON	<b> </b>	. 68.52	P	s 9.48		9.59	
06040	59	. 82		12.29	6.37	s 9.26	96.72	BRAHAM	RA	63.25	DP	<b>s</b> 9.43	5.52	9.51	
06037	<b></b>	15	<b></b>	12.34	. <b></b>	f 9.29	100.15	STANCHFIELD	<b> </b>	. 59.82	P	f 9.38	ļ	9.46	
06034	27	• • • • • •		12.39		f 9.35	102.64	GRANDY	<u></u>	. 57.33	P	f <b>9.35</b>		9.40	<u></u>
06029	104	126		12.47	s 6.46	s 9.45	107.52		CG	52.45	DNP	s 9.28	s 5.43	9.32	
06024		65	· · · · · · · · · · · · · · · · · · ·	12.55		s 9.52	113.17	5.65 ISANTI	IS	46.80	DP	s 9.17		9.24	
06018	97	45		1.04	6.56	f 9.58	119.19	6.02 BETHEL 6.15	BE	40.78	DP	f 9.08	5.34	9.14	
06012		17		1.13		1 10.04	125.34	CEDAR		. 34.63	P	f 9.02		9.04	
06006	82	18		1.21		1 10.09	131.03	ANDOVER		28.94	P	f 8.57	5.24	8.55	
00448	• • • • •			A 1.30Am	A /.llPm	A # 10.15Am	136.99	COON CREEK JCT)	CN	22.98	JRDNPIV	Lf 8.52Am	L 5.19Pm	L 8.45Pm	•••••
			TRAINS	BETWEEN	COON CR	EEK JUNC	TION A	ND NORTHTOWN ARE GOVER	NED	BY NOR	THERN PAC	OFIC TIME	E TABLE		
			TR	AINS BETV	VEEN NOR	THTOWN	AND ST	. PAUL ARE GOVERNED BY 1	WIN	CITY T	ERMINALS 1	TIME TABI	LE		
00427					A 8.00p	A 11.00Am	159.97	22.98 ST. PAUL	1	1		L 8.10Am	L 4.30pm	1	
				4.00 32.1	2.26 56.3	2.45 49.5		Time Over Subdivision Average Speed Per Hour				2.52 47.9	2.26 56.3	3.27 37.2	
<sup> </sup>			<u> </u>	32.1	vv.a	-18.0		winds obed tel Hon.		<u> </u>		41.8	J0.3	01.2	<del></del>
								superior to eastward trains PECIAL INSTRUCTIONS PAGE:							

w	ESTV	VAR	D				SEC	OND SUBDIVISION					EAS	STWAR	ED 3
mbers	Capa	ir city		Time Table No. 91											
Station Number	8.	. 6					ince from	Effective October 31, 1965		Telegraph (	SIGNS				
Statio	Sidings	Other Tracks					Distance Duluth	STATIONS		Teleg					
05013							13.43	BOYLSTON			РJ				
05019	99	2		••••••			19.21	3.88			P	• • • • • • • • • • • • • • • • • • • •			•••••
05023		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •			1 1	STATE LINE TOWER	_	8	DNPI			••••••	
05029	<b></b> -	45				• ; • • • • • •	29.14	[14] 3.87	ABS		P	• • • • • • • • • • • • • • • • • • • •		••••••	
05033	85	10			<u> </u>	· · · · · · · · · · · · ·	33.01	CARLTON		A	DNPI				
05039		239					38.97	5.96 CLOQUET		KN	DPXV				
05055	129	95 `				• • • • • • • • • • • • • • • • • • • •	55.45	CBROOKSTON★.		•••••	JPYW				
05063	187	8					63.31	PAUPORES			P	• • • • • • • • •			
05073	193	46					73.27	FLOODWOOD		OD	DP				
05079	182	3			· · · · · · · · ·		79.37	/	ŢC		P				
05090	195	19					89.83	10.46 swan River	0		P				
05099	196						98.78	PHILBIN			P				
05106	142	178					106.30	GUNN		• • • • •	JYPX				
05109	92	263					109.34	GRAND RAPIDS★.	_	GR	DNXPW	<i></i>			
05113	49	30					113.04	SEYTON	ABS		PX				•••••
05115	123	9					114.23	1.19 COHASSET			P				
05124	135	96					123.60	DEER RIVER		RI	DPX				
05131	71	15					130.70	BALL CLUB			P				
05144	69	22					143.60	BENA		BA	DP				
05151	123	4					151.15	schley			P				
05153							153.21	2.06 JCT	0		.rpv				
05163	Yard	545					162.69	9.48	CT	С8	JPV BJRDN KWXPYO				
									=		<del></del>				
		-	İ												
	1	1		1	<u>'</u>	<u> </u>	<u> </u>	!					!		

Westward trains are superior to eastward trains of the same class. SEE ADDITIONAL SPECIAL INSTRUCTIONS PAGES 5 THROUGH 11.

4 V	VES	TW	ARD 1	HIR	D SUBDIVISIO	N I	EAST	WARD	WES	STW	AR	D F	OURTH SUBDIVISION EASTWARD
Station Numbers	Cap	Other Tracks		Distance from Sauk Centre	Time Table No. 91  Effective October 31, 1965 STATIONS	Telegraph Calls	SIGNS		Station Numbers		Other Tracks	Distance from Dormer Jot.	Time Table No. 91  Effective October 31, 1965  STATIONS  #BO   Garden of the state
09105 53018 53026 53032	39	63 53		0.14 18.58 26.44 31.82	0.14 PARK RAPIDS JCT. 18.44LONG PRAIRIE 7.86BROWERVILLE 5.38CLARISSA	NE VI RU	JPX D D		52432 52427 52426	80	60	0.00 2.03 2.26 3.18	DORMER JCT.   PX
53036 53044 53056	34	32 27 52		36.51 44.02 56.19	4.69 EAGLE BEND 7.51 BERTHA 12.17 WADENA 14.25	GD BR WD	D DIV		52418 52416 52412	Yard	150	6.14 6.61 9.19	2.96
53070 53079 53091 53103	30	30 27 116 29		70.44 79.17 91.17 103.07	SEBEKA 8.73 MENAHGA 12.00 PARK RAPIDS 11.90 NEVIS	SK MH J N	DW D D		52409 52408 52401 52354	115	139	10.75 11.73 15.41 19.43	RUBY JCT.
53109 53119  05163	 Yard	27 32  545		109.32 118.81 120.92 140.38	6.25 	AY	D V U JBRK DNWX		52363 52369 52375		651	25.00 31.60 35.99	
WES			D FI		SUBDIVISION			WARD	52376 52377 52382 05106	142	56 300 178	37.01 38.84 41.60 46.84	1.02
Station Number	Capi	ar	CLASS  305  Daily Ex. Sun. L 7.20Am	o Distance from S Elk River	Time Table No. 91  Effective October 31, 1965  STATIONS	크 Telegraph Calls	SIGNS JRDN	CLASS 306 Daily Ex. Sun. A 11.25Am	WES	STW	'ARI	D SE	EVENTH SUBDIVISION EASTWARD
Т	RAII		OVERNE		RY. JCT. AND EL				Numbers	Capa c	. 1		Time Table signs No. 91
51818 51828 07418	29	116 20 71	7.22Am 8.35 9.10 A 9.20Am 2.0 16.60	0.74 19.16 28.58 33.20	N. P. RY. JCT. 19.16	MU	DJPX	11.15Am 10.20 9.45 L 9.30Am 1.55 17.38	06057 . 07438 .	Sidings	Other Care		STATIONS
WES	TW	AR		хтн	SUBDIVISION	I	EAST	WARD	07404 .	90	31 71 38		18.82 OGILVIE GO DP
Station Numbers		Car pacity	Distance from Brookston	Ti	me Table No. 91  Effective October 31, 1965  STATIONS		Telegraph Calls	SIGNS	۰	stwa:	e Thi	rd, Fo	e superior to eastward trains of the same class purth, Fifth, Sixth and Seventh Subdivisions.  SPECIAL INSTRUCTIONS PAGES 5 THROUGH 11.
05055 52311 52325 52338 52401	129 145 145 144		05 0.00 5 10.92 5 24.99 5 39.88 50.82		BROOKSTON	CTC		JPYW P P P BRKDNP JWYX					

#### **ALL SUBDIVISIONS**

#### 1. SPEED RESTRICTIONS GENERAL.

The following speed limits apply to trains and engines operating under the conditions outlined, unless rules or conditions require a further reduction:

- 50 MPH-Diesel engines light or with caboose only.
- 35 MPH—Trains or engines on main routes, actuating the points of spring switches;

Trains or engines thru No. 20 turnouts at following locations:

SaundersCrossover	BrookstonJct
BoylstonCrossover	BrookstonEnd Dbl. Trk
AskovSiding	PauporesSiding
Hinckley TowerSiding	FloodwoodSiding
Brook ParkSiding	IslandSiding
Brook Park JetJet.	Swan RiverSiding
GrasstonSiding	PhilbinSiding
Coon Creek JctJct.	BadenSiding
Coon CreekCrossover	FermoySiding
BrookstonCrossover	OnegaSiding
Bridge 29Gantlet	_

- 80 MPH—On Main lines, when handling following equipment in trains, not in actual service but on own wheels, derricks, cranes, pile drivers, Jordan spreaders, shovels, wedge plows, scale test car, also ore cars series 80000 thru 95039 and air dump cars X-2000 thru X-2096, X-7000 thru X-7049 when such ears are loaded with ore or gravel.
- 25 MPH—Trains handling logs;
  Trains or engines moving in facing point direction at spring switches without facing point lock;
  Trains or engines thru No. 15 turnouts at following locations:

Cent. Ave	. TowerCrossover	Boylston	Jct.
Saunders	Jct.	Gunn	Jct
Br. 1.2	End Dhi Tek		

- 20 MPH—Trains handling the following equipment on Branch Lines or on 6 degree or sharper curves of Main Lines: scale test car, ore cars series 80000 thru 95039, air dump cars X-2000 thru X-2096, X-7000 thru X-7049 when such cars are loaded with ore or gravel.
- 15 MPH—Trains handling the following equipment on Branch Lines or on 6 degree or sharper curves of Main Lines: derricks, cranes, pile drivers, Jordan spreaders, shovels and wedge plows.

Trains or engines moving thru interlockings against the current of traffic on double track.

Trains or engines thru all other turnouts, except equilateral turnouts, and those shown previously in this item.

1(a). Rule 240-W of the Consolidated Code of Operating Rules is modified to permit handling Great Northern cars 60276 thru 60279, 61500 thru 61524 and 61000 thru 61009 in passenger trains at passenger train speeds.

#### 2. MOVEMENT OF ENGINES DEAD IN TRAINS.

Engine 2350 must be handled on rear of freight and mixed trains.

Diesel engines 1 thru 196 or any road switcher unit not equipped with alignment control couplers must be towed as single units. On engines 550 thru 599, coupler alignment control lock blocks must be 'DOWN' when coupled in multiple unit operation.

Following road switcher engines are equipped with alignment control couplers: 227 thru 230; 550 thru 599 (lock blocks); 600 thru 699; 700 thru 734; 900 thru 915; 2000 thru 2035; 2500 thru 2523 and 3000 thru 3040.

Single unit diesel engines, or multiple unit groups (When such groups consist of road freight, road passenger, or engines with alignment control couplers), when towed dead in freight trains, are to be handled not less than five (5) cars nor more than fifteen (15) cars behind the road engine. There should not be more than five (5) units in a group. Additional such units or groups of units must be separated by not less than five (5) cars. When towing diesel engines dead in trains the following speeds must not be exceeded:

MAXIMUM	SPEED	ENGIN	E NUMBE	R
50 MPH	1 thru	10, 14 thru	16, 24 thr	ı 28, 75 thru
	162, 16	5 thru 170		
79 MPH	350 thi	ru 375, 500 tl	h <b>ru 512,</b> 67	79, 680, 2350,
	2509 t	ıru 2523 and	3026 thru	3040

65 MPH.....All other diesel engine units

- 3. Except at points where it is necessary to classify trains, open cars loaded with poles, piling, lumber, timber, pipe, or other lading which might shift, should be placed as close as possible to the head end of train, but not next to engine, caboose, occupied outfit car, passenger car or another unprotected car containing commodities which might be subject to damage. Loaded trailer-on-flat cars and multi-level automobile cars are not included in this category. In double track territory, trains handling such cars must use extreme care to avoid slack running in or out when passing or being passed by other trains. In single track territory, trains handling such cars must be at stop when on siding or other track to meet or be passed by other trains, except when have more cars than siding will hold it is permissible for such trains to pull by each other at restricted speed. Loaded dump cars should not be handled on double track after dark, but if necessary to do so, close watch must be maintained by members of the crew, and if a car dumps its load, train must be stopped at once and protection provided as prescribed by the rules.

  Great Northern tie flats in series X-4800 to X-4975 and X-4410,
- whether loaded or empty, must be handled on rear of train.

  4. Brakemen with less than one year of experience should not be used as flagmen except in emergency, and then Superintendent will be notified by wire.
- 5. Due to limited overhead clearance at tunnels and structures, employees are warned to keep off top of cars of extreme height and width when handled in trains and yards, except in emergency. In absence of previous advice on such cars, wire proper officer for instructions.
- 6. Trains departing from stations, either from siding or main track in trailing point movement actuating points of spring switches, a member of crew must observe indication of governing signal in opposite direction after rear end of train has passed through switch to ascertain if switch points return to normal position. If this signal indicates Stop and no immediate train movement or other cause is evident, report the fact to Superintendent from first available point of communication.

During and immediately following snow storms or violent wind storms, spring switches must be operated by hand and relined in normal position before heading out through switch in trailing point movement, actuating switch points, to insure switch is in proper operating condition.

7. Facing point locks on hand-operated switches are indicated by a six-inch yellow stripe painted on target staff. Be positive locking device is restored to normal position after using. A running switch must not be made through this type switch.

8. Rule 2 of the Consolidated Code of Operating Rules is modified for Great Northern Railway Company employes to the extent that a watch certificate form is no longer required. Watches of employes will be inspected by Division Officers, Rules Examiners and other designated officers.

Rule 3(C) of the Consolidated Code of Operating Rules is amended as follows: Employes governed by time service rules must not wear wrist watches while on duty unless such watches are of an approved type. Approved type wrist watches are: Elgin, B. W. Raymond Model, 13/0 size, 23 jewels, Ball Official Standard wrist watch, 1604B, stainless steel, 13/0 Ligne, 21 jewels, Bulova Accutron Railroad Approved Model and Hamilton 505 R. R. Electric Special wrist watch, Bulova Model 23J.

- 9. Regarding Consolidated Code Rule 103. In addition to complying with the provisions of this rule, members of a crew will be governed by the following: When an engine, with or without cars, is about to move over a public crossing not protected by a watchman, by gates or by crossing signals in operation, a member of the crew must be on the ground at the crossing to provide protection. Exception—in the movement of a through yard transfer or of a light engine being handled only by hostlers, it is not necessary for a member of the crew to be on the ground at the crossing.
- 10. Employees are prohibited from riding or walking on the roof of any moving car except when absolutely necessary in the passing of signals, and then only when they place themselves near the middle of the car.
- 11. Modifying Rules 7 (A) and 12 of the Consolidated Code of Operating Rules: When movement being made is controlled by hand, flag, or lantern signals, the employes involved will give or relay such signals directly to the engineer. The last paragraph of Rule 7 (A) of the Consolidated Code of Operating Rules is revised as follows: When backing or pushing a train, engine, or cars in response to hand or light signals from a trainman, the disappearance from view of the trainman giving such signals or of his light by which such signals are given, must be regarded as a stop signal, except when movement is under control of a trainman on the leading car that is equipped with back-up air brake hose or pipe.
- 12. Before picking up cars of peeled pulpwood from industry at any station, conductor must examine lading; if lading is not protected with woven wire to prevent sliding out on sides, or, when wire is not available, with boards and stakes, then car must not be moved from industry. The fact must be promptly reported by wire to the Superintendent.
- 13. Whistle Signals for Routes at Junctions and Interlockings:

Routes	Whistles
Main Track2	short, 1 long
Diverging route2	long
Siding4	short
Against current of traffic1	

- 14. The Consolidated Code of Operating Rules, Edition of 1959, in addition to the following instructions will govern Great Northern employes while operating on Minnesota Transfer Railway Co. and St. Paul Union Depot Company trackage:
  - (a) All trackage of the Minnesota Transfer Railway Company is defined as a system of tracks within yard limits over which movements must be made at restricted speed and are not authorized by time table or train order, but subject to prescribed signals and rules, or special instructions.

The limits of the St. Paul Union Depot Co. property extend from connection with the Northern Pacific Ry. and Great Northern Ry. tracks at Third Street and connection with the CMStP&P-CB&Q R.R. tracks opposite depot roundhouse on the east, to connection with the CGW Ry. and CMStP&P R.R. tracks at Robert Street on the west.

- (b) The time table of the St. Paul Union Depot Company is for information only. Employes of railroads using the tracks of this Company will be governed by current time table of their respective companies only as to arriving and departing time of trains.
- (c) Where in the rules of the Consolidated Code reference is made to trains, such rules will also apply to yard movements and engines.
- (d) Under Rule 15, the use of torpedoes is prohibited.
- (e) Under Rule 11, burning fusees must not be used except in case of emergency and then only when held in hand and must be extinguished before leaving.

THE FOLLOWING RULES APPLY ONLY ON THE ST. PAUL UNION DEPOT COMPANY:

(f) There is no superiority of trains within the limits of St. Paul Union Depot Company property.

(g) Within the limits of the St. Paul Union Depot Company property, trains and engines must move at restricted speed and must not exceed ten (10) miles per hour through crossovers, turnouts and puzzle switches.

The entrance to, and all movements on this property, will be made only on authority of hand signals from switch tenders. No train or engine may foul any track or puzzle switch without authority of hand signals from switch tenders in control of such movements, except that short interior switching movements may be made through crossovers connecting shed tracks when authorized by train director.

Any lead or track may be used for the make-up of trains on authority of train director. The movement of trains should be given preference.

- (h) When indicated by the ringing of the bell, flashing of headlight, hand or light signal that a train or engine is ready to move, the switch tender in charge of the shed track on which the movement is standing will handle as follows: at west end of station the switch tender will control the movement by hand or light signal; at the east end of station the switch tender will inform the train director, who will route the movement by instructions over the public address system. Switch tenders will be governed by these instructions, relaying such instructions by hand or light signal to the next switch tender in the direction of the movement. Each must receive an acknowledgment before signalling the movement. Signals must not be acknowledged or acted upon unless the signal corresponds with instructions from the train director and is definitely understood.
- (i) When backing, the back-up air brake valve on passenger trains must be operated by the conductor, except in the movement of empty equipment it may be operated by a competent trainman or yardman. When practicable, conductors must see that trainmen are stationed so hand or light signals may be used in case of any emergency. When backing a train, the engine brake valve must be in running position. An application of the brakes must be made with back-up air brake valve before starting and it must be known that the brakes are in operative condition. Movement must not be started until the proper signal is given. A running test must be made with the back-up air brake valve before the train has moved 300 feet. If the running test is not made within 300 feet the engineer must stop the train and ascertain cause. The speed of train must not exceed eight (8) miles per hour; and train must be under such control that it can be stopped short of train or obstruction, and short of bumping post on stub tracks.
- (j) Headlights must be dimmed while on shed tracks.
- 15. Unless you can stop clear of public crossings in any town, you will arrange to cut at least one crossing. The law provides that railway employes responsible for blocking crossing more than five (5) minutes are subject to arrest and fine.

#### FIRST SUBDIVISION

(Main Line)

2. SPEED RESTRICTIONS.

3. TRAIN REGISTER EXCEPTIONS.

All trains register by ticket at Central Ave. Tower and Coon Creek Jct.

- 4. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).
  - (a) At Boylston, Brook Park, trains for which these points are initial stations may proceed on authority of clearance under which such trains arrive.
  - (b) Mesabi Division clearance received by first class trains and passenger extras at Minneapolis, and by other trains at Minneapolis Jct., will clear train at Coon Creek Jct. when train order signal indicates proceed.
- 5. RESTRICTED CLEARANCES.

Superior, bents under Fifteenth St. viaduct will not clear man on side of car or engine.

- Hinckley, automatic block signal 72.1 governing westward trains, is located on left hand side of main track about 500 feet west of depot.
- 7. SPEED TEST BOARDS.

Engineers shall test speed of their trains passing following point as compared with Speed Table:

Westward, between MP 76 and MP 77 approximately 4 miles west of Hinckley Tower.

Eastward, between MP 77 and MP 76 approximately 3 miles east of Brook Park.

8. CROSSOVERS ON DOUBLE TRACK.

Facing Point

Trailing Point

Saunders, east crossover

Central Ave.

**Boylston** 

Saunders, at Tower.

Boylston

9. SPRING SWITCHES WITH FACING POINT LOCK.

Nickerson .....siding Askov .....siding Cambridge .....siding

Grasston .....siding

Bethel .....siding

Normal position is for main track.

#### 10. SPRING SWITCHES WITHOUT FACING POINT LOCK.

Superior, east switch of Eastward and Westward incoming tracks. Normal position is for incoming tracks and all other roundhouse lead switches, when not in use, must be left lined for roundhouse lead.

Elevator "X", east and west of car unloader on unloading track. Normal position of switch west of unloader is for unloading

Normal position of switch east of unloader is for runaround track.

#### 11. DRAGGING EQUIPMENT DETECTOR INDICATOR.

Eastward trains on Signal 16.8 between Boylston and Foxboro. Westward trains on Signal 61.1 between Askov and Sandstone.

#### 12. MANUAL INTERLOCKINGS.

Coon Creek Jct. .....junction with N. P. Ry.

When the route is properly lined for a with-the-current-of-traffic movement from Coon Creek to Minneapolis, the signal aspect displayed on Signal 135.1, Westward approach signal on single main track east of Coon Creek, will be yellow over green. (CMStP&P Rule 240E, Figure 1, Page 104 in the Consolidated Code of Operating Rules). The indication of this signal means approach next signal prepared to proceed on diverging route.

#### 13. AUTOMATIC INTERLOCKINGS.

Superior

73rd St., MStP&SSM. RR. Crossing

14. Arrange to stop No. 19 daily, except Sunday, at Hinckley at a point accessible to mail messenger so mail pouches can be placed in RPO car door.

15. Great Northern Transfers going to Great Northern Rices Point Yard will use C&NW track from bridge switch to switch in C&NW main track leading to new connection to Great Northern Rices Point Yard. Authority to use C&NW track will be given by clear signal at Minnesota Draw.

For movement from Great Northern Rices Point Yard to Superior, authority to use C&NW track must be obtained from Minnesota Draw by telephone—from phone located in booth just north of Birch Street between Great Northern and C&NW tracks-before leaving Rices Point Yard.

#### SECOND SUBDIVISION

(Main Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

Between	Freight
Boylston and Mirbat	40 MPH
Mirbat and Gunn	60 MPH
Gunn and Cass Lake	49 MPH
The maximum speed of trains handling ore cars is 50 trains handling empty ore cars, 30 MPH for trains loaded ore cars.	

#### 2. SPEED RESTRICTIONS.

Between Home Signals of Interlockings at: 20 MPH Bridge 29, westward.

Cass Lake, on all tracks over footwalk crossing located just west of mainline switch to roundhouse.......... 8 MPH

Whistle signal must be sounded as prescribed by rule. Crossing must be cut immediately. When this crossing is blocked by coupling up train, trainmen must remain at the crossing to prevent pedestrians from crawling through the cars.

#### CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).

At Boylston, Brookston and Gunn, trains for which these points are initial stations may proceed on authority of clearance under which such trains arrive.

At Soo Jct., Soo Line Trains may proceed to Cass Lake without obtaining clearance Form A or train order authority which will be received at Cass Lake.

4. Eastward approach signal to end of double track, Brookston, is a double aspect signal indicating yellow over green.

When route is properly lined for eastward train to proceed from single main track to eastward main track of double track, this aspect will be named: "Approach diverging route" and indications will be "Approach next signal prepared to proceed on diverging route".

This signal aspect is governed by CMStP&P Railway Block and Interlocking Rule 240-E, Figure 1, Page 104 of the Consolidated Code of Operating Rules. This rule will apply to and govern Great Northern train and engine movements at this location. Any aspect other than yellow over green at this location will be governed by Great Northern signal and interlocking rules.

Main track switches to the following spur tracks located in CTC territory are not equipped with electric locks:

> Mirbat Wawina

Trains or engines using these tracks must keep main track switches open unless main track is occupied by engine or cars; in addition these tracks must not be used to meet or be passed by other trains or engines.

#### 6. SPEED TEST BOARDS.

Engineers shall test speed of their trains passing following point as compared with Speed Table:

Westward, between MP 86 and MP 87 approximately 41/2 miles west of Island.

Eastward, between MP 87 and MP 86 approximately 2 miles east of Wawina.

 Cloquet, derails located near east end storage tracks Nos. 1 and 2 are not provided with derail signs.

Cloquet, when setting out cars on either end of No. 1 track be sure cars are shoved down far enough to clear N. P. Ry. crossovers.

Cloquet, cars left on G.N. tracks must not be closer than 60 ft. each way from 10th Street crossing east of depot.

8. Grand Rapids, when setting out cars, eastward freight trains will stop and leave train west of west switch; westward trains will stop east of the first public crossing.

Grand Rapids, at Hawkinson Addition Crossing MP 110, trains stopped to make set-outs at Grand Rapids must clear this crossing.

- 9. Cass Lake, when switching movements are made over Highway 371 crossing just west of depot, engine or cars must not occupy crossing until gates are at stop for highway traffic.
- 10. International Refinery, Alford, while switching, do not handle cars over drip pans with brakes set as sparks from brakes create a fire hazard.

Cabooses with fires in stoves not permitted on any of the plant tracks and crews working in the vicinity will refrain from smoking.

Tail hose located in telephone booth must be used on end of cuts shoved to Old No. 1 and Old No. 2 tracks with air coupled into it so that trainmen taking position on rear car of cut being shoved can control the movement over crossing immediately ahead of the unloading rack, as well as being able to stop cut of cars short of end of these two spur tracks.

#### 11. CROSSOVERS ON DOUBLE TRACK.

Facing Point
State Line, west crossover
Cloquet, west crossover

State Line, east crossover
Alford
Carlton, west crossover

Trailing Point

Brookston, east crossover Carlton, west crossover Cloquet, east crossover

 SPRING SWITCHES WITH FACING POINT LOCK. Cass Lake, east yard switch.

Normal position is for main track.

18. SPRING SWITCHES WITHOUT FACING POINT LOCK.

Cass Lake, west crossover switch to roundhouse lead incoming roundhouse track outgoing roundhouse track

Normal position is for tracks named.

14. DRAGGING EQUIPMENT DETECTOR INDICATOR.

Eastward trains, on signal 30.2 approximately one mile west of Bridge 29.

Westward trains on Signal 28.1 approximately 1 mile east of Bridge 29.

15. MANUAL INTERLOCKINGS.

16. AUTOMATIC INTERLOCKINGS.

Bridge 29, 2.21 miles east of Alford.....gantlet
Bridge 29:

Release for westward route on westward track is located in release box at eastward home signal.

Release for eastward route on eastward track is located in release box at westward home signal.

Cranks for hand operation of smashboards are attached by chains to the mechanism.

17. CTC-SOO JCT. TO CASS LAKE.

Telephones for communication with the control operator are located at the east end of CTC section and at the spring switch, east end of Cass Lake Yard, 1000 feet west of west end of CTC section. Westward Soo Line trains will call the operator at

Cass Lake on phone for authority to enter G.N. main line. The following will govern in case of failure of communications: Soo Line crew will unlock switch and attempt to line for their movement. If switch will line and signal clears, this will be their authority to leave Soo Jct., and proceed to Cass Lake.

18. Authority to use the electric-locked switches at Gunn must be given verbally to member of crew by train dispatcher.

#### THIRD SUBDIVISION

(Park Rapids Line)

2. SPEED RESTRICTIONS.

Between Home Signals of Interlockings at: 20 MPH
Park Rapids Jct.
Wadena.

- CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).
   Mesabi Division clearance received at Sauk Centre will clear
   train at Park Rapids Jct.
- Cass Lake, normal position south wye switch is for east leg of wye.
- 6. Unless otherwise instructed, protection against following trains, as required by Consolidated Code Rule 99, is not necessary on Third Subdivision, between Cass Lake and Park Rapids Jct. Form Z train order is not required on this subdivision. If it becomes necessary to operate a following train when there is still a train on this subdivision, the train ahead must be notified to protect against the following train. If this is not practical, the following train must be notified to protect against the train ahead.

#### FOURTH SUBDIVISION

(Gunn-Dermer Jct. Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

Between Freight
Gunn and Emmert 45 MPH
Emmert and Dormer Jct. 30 MPH

2. SPEED RESTRICTIONS.

Between Home Signals of Interlocking at:...... 20 MPH Emmert.

St. Paul Mine Spur, Third Avenue, Keewatin, trains will not exceed a speed of 12 MPH through the approach circuits of the signal system covering crossing signals for Highway No. 169. Harrison Mine Spur, Naswauk, trains will not exceed a speed of 12 MPH northbound into the mine or 6 MPH southbound out of the mine through the approach circuits of the signal system covering crossing signals for Highway No. 169 crossing.

#### AT VIRGINIA.

(a) Between Home Signals of Interlockings at:................ 20 MPH
D. W. & P., Virmount Tower.
D. W. & P., Crescent Ave.

(b) Highway No. 53 crossing, 6th Avenue West, leading to Columbia Mine:

Trains must not exceed a speed of 10 MPH through the approach circuits of this crossing.

(c) Trains and engines must stop before passing over crossing U. S. Highway No. 53 leading to depot, and a member of crew on ground at the crossing will protect movement.

(d) Ninth Ave. and Fourth Street Crossing:

Trains and engines must stop before passing over crossing and a member of crew on ground at the crossing will protect movement.

- CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).
   At Kelly Lake, trains arriving from Sixth Subdivision (Casco Line) destined to Fourth Subdivision (Gunn Line) may proceed to Keewatin on authority of clearance under which such trains arrive.
- 4. Between Calumet and Oil Spur, located 1.47 miles west of Bovey, main track will be used jointly by G.N. and DM&IR. Rys. and authority for train movements is controlled by G.N. Ry. and G.N. rules and Special Instructions will govern.
- 5. Train order authority or clearance Form A not required for transfers originating at Bovey for movement between Taconite Jct. and Canisteo. Rule 93 of the Consolidated Code of Operating Rules will apply. Transfers must obtain permission from train dispatcher before occupying main track.
- 6. Telephone in service at Buckeye, Canisteo and Danube Mines switch. Crews coming from Buckeye, Canisteo and Danube Mines will communicate with the dispatcher and know that way is clear on the main track before proceeding with train down the descending grade on both legs of the wye.
- 7. Block signal located at Mesabi Chief Mine spur normally displays indication, Rule 240(B) and governs movements from spur to main track; after lining switch, if no conflicting movement is evident on main track, movement may be made in accordance with signal indication after complying with Rule 518.
- 8. Trains and engines will run with the current of traffic between Kelly Lake and Emmert without train orders or clearance, and must keep to the left unless otherwise provided.
- Between Emmert and DM&IR. Jct. east of Scranton, G. N. double track will be used jointly by DM&IR. trains. G. N. rules and special instructions will govern.
- 10. Between Wilpen Jct. and St. Clair Jct., and between Buhl and Dormer Jct., DM&IR trains will use G.N. main track jointly and be governed by G.N. rules and special instructions. Normal position of switches at Wilpen Jct., St. Clair Jct., and Dormer Jct., is for G.N. 4th Subdivision.
- Between St. Clair Jct. and Chisholm Jct., main track will be used jointly by G.N. and DM&IR. Rys. and authority for train movements is controlled by DM&IR. Ry. and DM&IR. rules will govern.
- 12. Train and engine movements from main line on new Hull Crusher Spur over Kelly Lake road crossing must be protected by a member of the crew due to restricted view approaching this crossing.
- 13. Main track Kelly Lake to Dormer Jct. is all yard limit and movements will be governed by Consolidated Code Rule 93. Train order authority or Clearance Form A is not required. Transfers will not be required to display markers Rule 19 or signals Rule 21.

Great Northern and DM&IR transfers must obtain permission of Great Northern dispatcher before occupying main track. On double track between Kelly Lake and Emmert trains and engines must keep to the left unless otherwise instructed.

14. Following from DM&IR Ry.: Train orders are not required for movement on the Wilpen Branch between Wilpen and Chisholm and between Monroe Jct. and Monroe. Trains will operate under provisions of Rule 93. Crews will contact Yardmaster Mitchell District before making movement on this branch.

Train orders are not required for movement on the Pillsbury Branch. Trains will operate under provisions of Rule 93.

- 15. Signal protection in service at Danube Mine Spur switch and crossover from Balkan Mining Company track to Danube Mine Tracks. Movements over this crossing will be governed by dwarf color-light signals, displaying indication Figure 6 of Rule 240-A or Figure 4 of Rule 240-H except eastward color-light signal for Balkan Mining Company will display Figure 3 of Rule 240-A or Figure 2 of Rule 240-H, all of the Consolidated Code. Normal position of switches is for Balkan Mining Company and for G. N. Ry. track from Danube Mine to washing plant. Signals will clear automatically for Balkan Mining Company and for G. N. Ry. from Danube Mine to washing plant. To obtain signal to cross over the Balkan Mining Company track, G. N. Ry. trainmen should make sure there is no approaching conflicting movement, then line all three switches in the route to clear signal before proceeding. After crossover movement has been made, all three switches must be restored to normal position for Balkan Mining Company track and G. N. Ry. washing plant track.
- Normal position of Gunn Line Switch at East leg of wye, Kelly Lake, will be for Fourth Subdivision.

#### 17. CROSSOVERS ON DOUBLE TRACK.

Facing Point Hull Crusher Ruby Jct. Trailing Point
Mahoning
Agnew
Scranton
Hibbing, east crossover
Hibbing, west crossover
North Mitchell

 SPRING SWITCHES WITH FACING POINT LOCK. Nashwauk, west north storage track switch. west south storage track switch.

Calumet, west new yard switch.

Canisteo, west new yard switch.

Normal position is for main track.

 SPRING SWITCHES WITHOUT FACING POINT LOCK. Kelly Lake, west wye switch.

Normal position is for 4th subdivision.

Kelly Lake, end of double track, Normal position is for eastward track.

20. SEMI-AUTOMATIC INTERLOCKINGS.

Emmert, normal position of spring switch at west end of connection with DM&IR Ry, is lined for Great Northern track. Normal position of spring switch at south end of connection with DM&IR Ry, is lined for DM&IR track to Mitchell. Signal indications are displayed accordingly. If any route other than the above normal route is to be used, trains must stop at home signal and desired route lined by hand. Signal should then clear in about one minute. If signal does not clear and no conflicting movement is evident, push-button release on home signal should be operated to obtain signal indication.

- 21. AT VIRGINIA.
  - G. N. Ry. trains to and from Virginia operate via D. M. & I. R. Ry. tracks between Emmert and Virginia.
- 22. AUTOMATIC INTERLOCKINGS.
- Authority to use the electric-locked switches at Gunn, Minnesota, must be given verbally to member of crew by train dispatcher.

#### FIFTH SUBDIVISION

(Princeton Line)

#### 1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

Between	Freight
Elk River and Princeton	45  MPH
Princeton and Milaca	20 MPH

#### 2. SPEED RESTRICTIONS.

Between Home Signals of Interlocking at Elk River.... 20 MPH

CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).
 At Milaca, trains for which this point is initial station may proceed on authority of clearance under which such trains arrive.

#### 4. SEMI-AUTOMATIC INTERLOCKINGS.

Elk River, 0.74 miles west of N. P. Ry. Jct.

5. Unless otherwise instructed, protection against following trains, as required by Consolidated Code Rule 99, is not necessary on Fifth Subdivision, between N.P. Ry. Jct. and Milaca. Form Z train order is not required on this subdivision. If it becomes necessary to operate a following train when there is still a train on this subdivision, the train ahead must be notified to protect against the following train. If this is not practical, the following train must be notified to protect against the train ahead.

#### SIXTH SUBDIVISION

(Casco Line)

#### 1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

#### 2. DRAGGING EQUIPMENT DETECTOR INDICATOR.

Eastward Trains, on iron mast approximately 6400 feet east of Signal 62.2 about 2.5 miles west of Brookston.

3. Main track switches to the following spur tracks located in CTC territory are not equipped with electric locks:

#### Arlberg

Casco

#### Onega

Trains or engines using these tracks must keep main track switches open unless main track is occupied by engine or cars; in addition these tracks must not be used to meet or be passed by other trains or engines.

#### SEVENTH SUBDIVISION

(Milaca Line)

1.	MAXIMUM	PERMISSIB	SLE SPEEI	FOR	TRAINS.	
	Between					Freight
	Brook Park	and East St.	Cloud			40 MPH

#### 2. SPEED RESTRICTIONS.

Di COD INICIONE	
Bridge 46.3, Mora	20 MPH
Bridge 54.2, Quamba	20 MPH
Between Home Signals of Interlockings at:	20 MPH
n , n ,	

Brook Park. East St. Cloud.

CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).
 At Brook Park, trains for which this point is initial station may proceed on authority of clearance under which such trains

#### 4. MANUAL INTERLOCKINGS.

5. Unless otherwise instructed, protection against following trains, as required by Consolidated Code Rule 99, is not necessary on Seventh Subdivision, between Brook Park and East St. Cloud. Form Z train order is not required on this subdivision. If it becomes necessary to operate a following train when there is still a train on this subdivision, the train ahead must be notified to protect against the following train. If this is not practical, the following train must be notified to protect against the train ahead.

#### SPEED TABLE

 Time Po Min.	er Mile Sec.	Miles Per Hour		Time P Min.	er Mile Sec.	Miles Per Hour
	46	78.3		1111111111112222288456789	18	46.2
	47	76.6	1	1	20	45.0
	48	75.0	li	1	22	48.9
	49	78.5		1	24	42.9
	50	72.0		1	26	41.9
	51	70.6		1	28	40.9
	52	69.2	li	1	80	40.0
	58	67.9	ll	1	88	<b>38.7</b>
	54	66.7	1	1	86	87.5
	<b>55</b>	65.5	H	1	89	<b>86.4</b>
	56	64.3		1	42	<b>35.8</b>
	57	63.2		1	45	<b>34.8</b>
	58	62.1	[]	1	50	<b>32.7</b>
	59	61.0		1	55	81.8
	0	60.0 59.0	l.	2	_	80.0
1	1	<b>59.0</b>		2	10	<b>27.7</b>
. 1	2	<b>58.1</b>	11	2	20	25.7
1	8	<b>57.1</b>		2	80	24.0
1	4	56.8		2	40	22.5
1	5	55.4	1	8		20.0
1	6	54.5	ii .	8	30	17.1
1	1 2 8 4 5 6 7 8 9	58.7 52.9 52.2	ll	4		15.0
1	8	52.9	ii .	5	-	12.0
1	9	52.2	ll .	6		10.0
1	10	51.4		7		8.6
Ī	12	50.0		8		7.5
ī	14	48.6	11	9		6.7
1 1 1 1 1 1 1 1 1	16	47.4		10	_	6.0

First Subdivision North Central Public Service Spur
North Central Public Service   Spur.   2.25 miles east of Coon Creek   Fourth Subdivision   1.25 miles east of Coon Creek   W   W   W   W   W   W   W   W   W

Page 12 (outside back cover) is blank.