COMPANY SURGEONS

_

*Dr. Abbott Skinner,	Chf. Med. Office	rSt.	Paul, Minn.
*Dr. Hugo F. Schroed			

. ,	St. Paul, Minn.
*Dr. Darrell E. Westover	
*Dr. John F. Alden	
*Dr. Ernest R. Anderson	Minneapolis, Minn.
*Dr. Victor E. Ekblad	Superior, Wis.
Dr. Milton Finn	Superior, Wis
Dr. Fred Johnson	
Dr. E. G. Stack	Superior, Wis.
Dr. Raymond J. Spurzem	Anoka, Minn.
Dr. Wm. T. Nygren	Braham, Minn.
Dr. G. E. Larson	
Dr. Gordon C. MacRae	
*Dr. C. H. Coombs	
Dr. R. W. Brockway	
*Dr. John B. Evensta	Grand Rapids, Minn.
Dr. Clarence Jacobson	
*Dr. John J. Muller	
Dr. R. L. Christie	Long Prairie, Minn.
Dr. Paul J. Keith	Milaca, Minn.
Dr. E. G. Hubin	
*Dr. G. H. Goehrs	St. Cloud, Minn.
*Dr. V. E. Neils	
*Dr. E. J. Schmits	St. Cloud. Minn.
*Dr. Julian F. DuBois, Jr.	
*Dr. John C. Grant	
Dr. E. N. Peterson	
*Dr. Charles J. Mock	
*Dr. Luther F. Davis	Wadena, Minn.
Dr. O. F. Ringle	Walker, Minn.
	•

*Designates also Examining Surgeon.

OPHTHALMOLOGISTS (Eye Doctors)

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

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.
M. L. PURDY, Traveling Engineer.

B. M. KUNSMAN, Traveling Engineer.

Scanned from the Dean Ogle Collection

GREAT NORTHERN Railway company

MESABI Division

TIME

94

EFFECTIVE 12:01 A.M. CENTRAL STANDARD TIME

Thursday, June 1, 1967

W. S. BYRNE, Superintendent. R. N. WHITMAN, General Manager.

H. J. SURLES, General Superintendent Transportation.

Printed in U.S.A.

2	2 WESTWARD FIRST SUBDIVISION EASTWARD														
bern		ar acity	SECON	D CLASS	FIRST	FIRST CLASS		Time Table No. 94		E E		FIRST CLASS		SECOND CLASS	
Station Numbers	5			407	19	23	Distance from Duluth	Effective June 1, 1967	Telegraph Calls	tance from Paul	SIGNS	24	20	408	
Stat	Sidings	Other Tracks		Daily	Daily	Daily	Dul	STATIONS	Tele	Diet St. J		Daily	Daily	Daily	
05001		290			5.10Pm	1		DULUTH 2.37	DU		RKOYB	A 11.45Am	1		
TRAINS BETWEEN ELEVATOR STATION AND DULUTH TERMINAL DEPOT ARE GOVERNED BY NORTHERN PACIFIC, LAKE SUPERIOR DIVISION TIME TABLE															
		1						0.86	1	1	······		1		
05005	• • • • • • • • •			•••••	s 5.25	s 7.45	3.23 4.22	ELEVATOR STATION 0.99 		156.73 155.74	RKPBYFZQ	s 11.30	s 8.35		
	Yard	5689			· · · · · · · · · · · · · ·		5.41	요즘 (. .	154.55	Ρ Y				••••
05008		32								151.56					
FIRST	CLASS	TRAINS	BETWEEN	CENTRAL	AVE. TOWI	ER AND DU	LUTHI	ERMINAL DEPOT ARE GOVERNE	ED BY	NORTH	ERN PACIFI	C, LAKE SU	PERIOR D	IVISION TI	ME TABLI
				9.30Pm	5 .35p m	7.53Am	8.67	CENTRAL AVE. TOWER	su	151.29	RICPYJX	A . 7Am	A 8.20Pm	A 12.12Am	
05010	Yard	299		9.34	5.38	7. 55	10.27	1.70 E	в	149.59	RICPYJQX	11.15	8.18	12.08	
05013				9.42	5.41	7.58	13.43	3.06 BOYLSTON		146.53	PXJ	11.12	8.15	2.02Am	• • • • • • • • • •
06112	125	10		10.19	5.54	8.10	24.71	11.28 FOXBORO		1 3 5.25	Р	11.00	8.03	11.44	
06100	137	3		10.49	6.05	8.22	36.74		NS	123.22	OPQ	10.50	7.53	11.26	
06094		12		11.00		f 8.29	43.18	6.44 KERRICK	к	116.78	-	f 10.43		11.16	
06088	108	14		11.08		f 8.35	48.9 2	5.74 BRUNO 8.39		111.04	Р	f 10.36	••••••	11.08	
06080	135	25	· · · · · · · · · · · · · · ·	11.20	6.23	s 8.43	57.31	ASKOV	RD	102.65	OP	s 10.26	7.36	10.56	
06074	148	174		11.28	s 6.30	s 8.53	63.17	5.86 SANDSTONE. 8.75	NA	96.79	OPWY	s 10.17	s 7.30	10.46	
06065	•••••	19	·······	11.48	•••••	s 9 . 02	71.92	HINCKLEY) 0.44	н	88.04	OP	s 10.07	••••••	10.31	· <i>·</i> · · · · · · · · · · ·
06064	146 160	16 8	· · · · · · · · · · · · · · · · · · ·	1.49 2.03 A m	6.47	f 9.11	72.36 80.54	HINCKLEY TOWER)0 8.18 BROOK PARK)	HT	87. 6 0 79.42	CPIQ PJ	f 9.58	7.12	10.30 10.16	•••••
								5.47						10.10	
06051 06046	107	32		12.21	20 6.57	f 9.16 s 9.21	86.01 91.45			73.95 68.51	P P	f 9.53 s 9.48	¹⁹ 6. 57		•••••
06040	57	36		12.29	7.03	s 9.26	96.72	5.27 .BRAHAM	RA	63.24	OP	s 9.43	6.52	9.51	
06037	· • • •	19		12.34		t 9.29	100.15	3.43 STANCHFIELD 2.49		59 .81	Р	f 9.37 9. 33		9.46	
06034	30	·····	· · · · · · · · · · · · · · · · · · ·	12.39	· · · · · · · · · · · · · · · · · · ·	9.33	102.64			57.32	P	9.33		9.40	
06029	104	145		12.47	s 7.15	s 9. 45	107.52	4.88 CAMBRIDGE 5.65	CG	52.44	OPQ	s 9.23	s 6.43	9.32	
06024		69		12.55		s 9.52	113.17	ISANTJ 6.02	IS	46.79	OP	s 9.14		9.24	· · · · · · · · · · · ·
06018	95	49	•••••	1.04		r 9.58	119.19	BETHEL 11.90	BE	40.77	OP	1 9. 07	6.34	9.14	· · · · · · · · · · · · · ·
06006 00448	97	13	•••••	I.21 A I.30Am	7.35	10.09 A 10.15Am	131.09 136.99	ANDOVER 5.90 Coon Creek Jct	CN	28.87 22.97	P	8.57 8.52Am	6.24 6.19pm	8.55 8.45pm	••••••
00440				II TIJOHI					0.1	22.01	JRCPI	0.JZAM	0.1 9910	0.4.JPm	• • • • • • • • • • •
			TRAINS	BETWEEN	COON CRI	EEK JUNC	TION A	ND NORTHTOWN ARE GOVERN	NED E	BY NOR	THERN PAC	IFIC TIME	TABLE		
			TR	AINS BETW	EEN NOR	THTOWN /	AND ST	. PAUL ARE GOVERNED BY T	NIN C	СІТҮ ТЕ	RMINALS T	IME TABL	.E		
00427					A 8.30pm	A 11.00Am	159.9 6	22.97 ST. PAUL				8. I OAm	5.30Pm		
				4.00 32.1	2.30 55.4	2.45 49.5		Time Over Subdivision Average Speed Per Hour				2.53 47.6	2.31 54.5	3.27 37.2	
		Westw	ard train	s are euro	rior to co	etward to	raine	f the same class, except on	DO		! Граск			- 1	
		,, catw	ara traill	e are supe								m crc	LAKIN	JK 1.	
					SEE	ADDITIO	NAL SI	PECIAL INSTRUCTIONS PAGES	5 TH	ROUGH	10.				

w	WESTWARD SECOND SUBDIVISION EASTWARD 3							2D 3						
nbera	Cape	ar Loity			1		from	Time Table No. 94	Calle					
Station Numbers	89 a	er oka					Distance fro Duluth	, Effective June 1, 1967	Telegraph (SIGNS				
Stat	Sidinge	Other Tracks					AD AD	STATIONS	T al					
05013							13.43	BOYLSTON					•••••	
05019 05023	96	2					19.21 23.09	MDEWEY 0 3.88 MSTATE LINE TOWER	1				•••••	
05023		81					29.14	6.05 F	1	P				
05033	83	10					83.01	CARLTON		CPIX				
05039		243					38.97	5.96 CLOQUET 16.48	к	N OPYX				
05055	127	85					55.45	(BROOKSTON					•••••	
05063	176	4					63.81 73.27	PAUPORES 9.96 FLOODWOOD	0		• • • • • • • • • • •		•••••	• • • • • • • • • • • •
05073 05079	185 173	45 3					79.37	6.10						
05090	186	19					89.83	ISLAND	5	PQ				
05090	180	19			•••••		98.78	8.95 PHILBIN		n n				
05106	133	176					106.30	7.52 GUNN		1				
05109	90	3 20					109.34	GRAND RAPIDS	G	DW				
05113	46	31			·····	<u></u>	118.04		∦ <u></u>		<u></u>	<u></u>		
05115	120	9					114.82		···	Р I ОРУ				•••••
05124 05131	133 68	188 17					123.60 130.70	DEER RIVER 7.10 BALL CLUB	. R			•••••		
05131	67	22					143.60	12.90 	. в					
05151	120	10					151.15	7.55 SCHLEY	. <u></u>	Р				
05153							153.21	2.06 		јр				
05163	Yard	551			•••••		162.69		c	S ZBJRC KWYPTQ				
						<u></u>								
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SEE ADDITIONAL SPECIAL INSTRUCTIONS PAGES 5 THROUGH 10.

4 V	4 WESTWARD THIRD SUBDIVISION EASTWARD							WES	STW	'AR	D FO	OURTH	su	BDIV	ISIOI	N E.	AST	WARD	
Station Numbers		ar Traoks		Distance from Sauk Centre	Time Table No. 94 Effective June 1, 1967 STATIONS	Telegraph Calls	SIGNS		Station Numbers		ar soity Traoks	Distance from Dormer Jot.		E Jun	able N foctive 1, 190	57	·····	Telegraph Calls	SIGNS
09105 53018 53026 53032 53036 53044 53056 53070 53079 53091 53103	40 34 24 31	64 55 35 33 27 60 28 27 118 31		0.36 18.58 26.44 31.82 36.51 44.02 56.19 70.44 79.17 91.17 103.07	0.36 PARK RAPIDS JCT. 18,22 LONG PRAIRIE 7.86 BROWERVILLE 5.38 CLARISSA 4.69 EAGLE BEND 7.51 BERTHA 12.17 WADENA 14.25 BERTHA 12.00 BERTHA 12.00 BERTHA 12.00 BERTHA 12.00 BERTHA 12.00 BERTHA 12.00 BERTHA 12.00 BERTHA 12.00 BERTHA 12.00 BERTHA 12.00 BERTHA 12.00 BERTHA 12.00 BERTHA 6.25	NE VI RU GD BR WD SK MH J N	JPY 0 0 0 0 0 0 0 0 0 0 0		52432 52427 52426 52418 52416 52412 52409 52408 52401 52354	80 Yard 99	 59 149 129	0.00 2.04 2.26 3.18 6.18 6.53 8.71 10.67 11.66 15.34 19.36	DBL TRK.	.SHER FRA ST. WII E	RMER JC 2.04 RWOOD J 0.22 .BUHL 0.92 .ZER YAI 3.00 CLAIR JC 0.35 LPEN JC 2.18 EMMERT 1.96 UBY JCT 0.99 HBBING 3.68 LLY LAH 4.02 EEWATIN	ICT RD CT T			PY JY PY PY JPY JPY JPY PIY BRKOPQ WYTJ OPY
53109 53119 05163 WES	Yard TW	27 34 551	D FI	109.32 118.83 120.92 140.38 FTH	AKELEY 9.51 WALKER N. P. RY. CROSSING. 19.46 CASS LAKE SUBDIVISION	AY CS		WARD	52363 52373 52375 52376 52376 52377 52382 05106		613 383 56 309 176	24.93 31.53 35.92 36.94 38.77 41.53 46.77		C/ HOI TAC	5.57 ALUMET 4.89 LMAN JC 1.02 ONITE JC 1.88 BOVEY 2.76 ANISTEO 5.24 GUNN	к ; т. с т.	ABS	NK CU NI BY	ОРҮQ ЈРТ ЈР ОРҮ ЈРТҮ
299600 Station Numbers		ar Acity Tracks	SECOND CLASS 305 Daily Ex. Sun. 7.20Am	9 Distance from 9 Elk River	Time Table No. 94 Effective June 1, 1967 STATIONS ELK RIVER	H Telegraph Calls	SIGNS JROW	SECOND CLASS 306 Daily Ex. Sun. A 11.25Am		STW	AR	D SE	VENTI	I ST	JBDIV	7IS10	N E	AST	WARD
T 51818	RAII 30	NS B G 	ETWEEN OVERNI 7.22Am 8.35	ED BY	. RY. JCT. AND ELI N. P. RY. TIME TA 		IVER E I 0	ARE 11.15Am 10.20	Station Numbera	Capac Capac			Distance from	Park J	No. 9 Effecti June 1, TATI	94 ve 1967	SIGNS		_
51828 07418 WES	91	20 73	2.0 0 16.6	28.58 33.19 XTH	9.42 4.61 MILACA Time Over Subdivision Average Speed Per Hour SUBDIVISION	<u>MU</u>	OJPY EAST	9.45 9.30Am 1.55 17.3 WARD	06057 . 07438 . 07431 .	88	60 45 73			.00 .72 .82 .92	BROOK 11.72 MOR 7.10 OGILV 12.10 MILA 14.09 FOLE	PARK A YIE CA Y	JP OP OP OJPY O		
Station Number	C.	Car pacity	ee fro	Ti	me Table No. 94 Effective June 1, 1967 STATIONS		Telegraph Calls	SIGNS	07392 .	We		c	58 are sup class on t	erior he Fi	fth Sub	vard tra division	n.		
05055 52811 52325 52338 52401	127 136 136 135		85 0.00 4 11.35 5 24.99 11 37.93 50.32		BROOKSTON 11.85 	CTC	 KY	JPTWQ P P P BRKOP JWTYQ											

ALL SUBDIVISIONS

1. SPEED RESTRICTIONS GENERAL.

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

50 MPH---Diesel engines light or with caboose only.

85 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 JctJct.	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, Taconite ore cars 95500-95719, and air dump cars X-2000 thru X-2096, X-7000 thru X-7049 when such cars are loaded with ore or gravel.
- 25 MPH-Trains handling logs on flat cars not equipped with permanent steel side stakes; 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	BoylstonJct.
SaundersJct.	GunnJct.
Br. 1.8End Dbl. Trk.	

- 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 DIESEL UNITS DEAD IN TRAINS. Engine 2350 must be handled on rear of freight or mixed trains.

Diesel engines 1 through 195 are not equipped with alignment control couplers and when in tow in freight or mixed trains must be handled singly, not in groups, and not less than 5 cars or more than 15 cars from the road engine. Other diesel units when in tow dead in trains should not be in groups of more than 5 units. Such units may be handled next to road engine. Engines 550 through 599 must have coupler alignment control

lock blocks in 'DOWN' position when such units are used in multiple operation.

When towing diesel engines dead in trains the following speeds must not be exceeded:

MAXIMUM SPEED ENGINE NUMBER

- 50 MPH.....1 through 195
- 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. Leaded traileron-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 reduced 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. Rule 14 of the Consolidated Code of Operating Rules is modified by the following instructions on trackage of the Great Northern Railway Company:

In the absence of a red signal two miles beyond the yellowred flag, train or engine must STOP and not proceed until a proceed signal given with a yellow flag or a yellow light is received, or verbal permission is received.

- 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. Regarding Rule 2 of the Consolidated Code of Operating Rules. 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. 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.

6

If unpeeled pulpwood, end stakes must be placed vertically across both ends of car so as not to leave a gap or opening between the stakes. If car is loaded above the end stakes car must be refused and Supt. notified.

10. Whistle Signals for Routes at Junctions and Interlockings:

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

11. The Consolidated Code of Operating Rules, Edition of 1967, 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 reduced 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 10, 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 reduced 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.

12. 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)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

Between	Passenger	Freight
Central Ave. Tower and Boylston	75 MPH	50 MPH
Boylston and Foxboro	60 MPH	40 MPH
Foxboro and Coon Creek Jct	79 MPH	69 MPH

2. SPEED RESTRICTIONS.

Duluth Terminal Bridge to G.N. Rices Point and G.N. con	nection
to Seventh Ave. freight house, trains and engines at 1	reduced
speed not exceeding 20	0 MPH
Over wheel checker-Saunders 20	0 MPH
Long lead, west end Sandstone Yard 18	5 MPH

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.

6. 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.

Nickersonsiding	Cambridgesiding
Askovsiding	Bethelsiding
Grasstonsiding	

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 track.

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.

- 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	Fre	sight
Boylston and Mirbat 4) 1	MPH
Mirbat and Gunn 60) 1	MPH
Gunn and Cass Lake 49) 1	MPH
The maximum speed of trains handling empty ore cars. MPH, 30 MPH for trains handling loaded ore cars.	s i	s 50

2. SPEED RESTRICTIONS.

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

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.

- Main track switches to the following spur tracks located in CTC territory are not equipped with electric locks: Mirbat, Wawina—(Rule 268(A) applies.)
- 5. 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.

6. 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.

7. 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.

8. 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.

9. CROSSOVERS ON DOUBLE TRACK.

Facing Point	Trailing Point
State Line, west crossover	State Line, east crossover
Cloquet, west crossover	Alford
Brookston, east crossover	Carlton, west crossover
-	Cloquet, east crossover

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

Normal position is for main track.

8

- DRAGGING EQUIPMENT DETECTOR INDICATOR. Eastward trains, on signal 80.2 approximately one mile west of Bridge 29. Westward trains on Signal 28.1 approximately 1 mile east of Bridge 29.
- 13. 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.

- 14. 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 creater of
- ** 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.
- 15. Before attempting to use the electric-locked switches at Gunn, a member of the crew must call the train dispatcher and obtain his permission. When through using the electric-locked switches, the train dispatcher must be notified immediately.
- 16. Engines or cars must not enter new shed at MP&L plant Cohasset account close clearance with infra red heaters.

THIRD SUBDIVISION

(Park Rapids Line)

1.	MAXIMUM	PERMISSI	BLE SPEE	D FOR	TRAINS.	
	Between					Freight
	Park Rapids	Jct. and Ca	ss Lake			30 MPH

- 3. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B). Mesabi Division clearance received at Sauk Centre will clear train at Park Rapids Jct.
- 4. The standard crossbuck grade crossing signs on Highway No. 371 one mile south of Wilkinson, Minn. have been removed. In the event of any train operation between Walker and Cass Lake train must stop and arrange for a trainman to protect the crossing preceding the movement over the crossing.

5. AUTOMATIC INTERLOCKINGS.

0.	Park Rapids Jct., Wadena,	0.52 miles west of	Ň. P N. P	. Ry. crossing . Ry. crossing
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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. One train must not be permitted to follow another train until both trains have been instructed by train order to protect to the rear as prescribed by Rule 99.

FOURTH SUBDIVISION

(Gunn-Dermer Jct. Line)

- 1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

 Between
 Freight

 Gunn and Emmert
 45 MPH

 Emmert and Dormer Jct.
 80 MPH
- - Emmert.
 - AT VIRGINIA.

(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. 58 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.
- 3. 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. Trains and engines will run with the current of traffic between Kelly Lake and Emmert without train or orders or clearance, and must keep to the left unless otherwise provided.
- 8. 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.
- 9. 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.

10. 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. 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.

- 11. 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, 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.
- 12. Normal position of Gunn Line Switch at East leg of wye, Kelly Lake, will be for Fourth Subdivision.
- 13. CROSSOVERS ON DOUBLE TRACK.

Facing	Point
Hull Cr	usher
Ruby J	ct.

E TRACK. Trailing Point Mahoning Agnew Scranton Hibbing, east crossover Hibbing, west crossover North Mitchell

- 14. SPRING SWITCHES WITH FACING POINT LOCK. Keewatin—West end north storage track switch. Nashwauk—West north storage track switch. West south storage track switch. Butler Taconite Track—west end. Calumet, west new yard switch. Canisteo, west new yard switch. Normal position is for main track.
- 15. 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.
- 16. SEMI-AUTOMATIC INTERLOCKINGS.

EmmertDM&IR. Ry. crossing 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 interlocking 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 interlocking signal should be operated to obtain signal indication.

Calumet, 0.60 miles east of......Hill Annex Spur Complete instructions for operation of electric lock and gates at semi-automatic interlocking are located at "Release" boxes.

17. AT VIRGINIA.

G. N. Ry. trains to and from Virginia operate via D. M. & I. R. Ry. tracks between Emmert and Virginia.

18. AUTOMATIC INTERLOCKINGS.

Virginia, 0.47 miles west of......D. W. & P. Ry. crossing 1.20 miles west of.....D. W. & P. Ry. crossing

19. Before attempting to use the electric-locked switches at Gunn, a member of the crew must call the train dispatcher and obtain his permission. When through using the electric-locked switches, the train dispatcher must be notified immediately.

FIFTH SUBDIVISION

(Princeton Line)

- 2. SPEED RESTRICTIONS. Between Home Signals of Interlocking at Elk River.... 20 MPH
- 3. SEMI-AUTOMATIC INTERLOCKINGS.
 - Elk River, 0.74 miles west of..........N. P. Ry. Jct.
- 4. 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. One train must not be permitted to follow another train until both trains have been instructed by train order to protect to the rear as prescribed by Rule 99.

SIXTH SUBDIVISION

(Casco Line)

- 1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS. Between Freight
 - Brookston and Kelly Lake 45 MPH
- 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: Rule 268(A) applies.

Arlberg

Casco

Onega

hit.

SEVENTH SUBDIVISION (Milaca Line)

1.	MAXIMUM PERMISSIBLE SPEED FOR TRAINS.
	Between Freight Brook Park and East St. Cloud 40 MPH
2.	SPEED RESTRICTIONS.
	Between Home Signals of Interlockings at:
	Brook Park.
	East St. Cloud.
8.	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. East St. Cloud......N. P. Ry. crossing

arrive.

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. One train must not be permitted to follow another train until both trains have been instructed by train order to protect to the rear as prescribed by Rule 99.

10		Table				
Business Tracks not	shown as stations on Time	Car) 		ine Spurs	
Name	Location	Ca-	Switch Opens	Name	Location	Switch Opens
Old Colony Gas & Oil Co. Spur Rural Coop. Power Ass'n Spur Duquette	 0.42 miles west of Cohasset 0.12 miles east of Deer River. 5.26 miles west of Schley 10.02 miles west of Park Rapids Jet 0.40 miles west of Long Prairie 1.61 miles west of Long Prairie 1.68 miles west of Long Prairie 1.68 miles west of Sebeka 0.58 miles west of Sebeka 10.10 miles west of N.P. Ry. Crossing 1.97 miles east of Buhl 3.44 miles west of Buhl 1.42 miles cost of Hibbing 	7 11 6 4 20 70 80 7 21 9 121 16 16 16 5 5 27 19 8 46	₩ ₩	Morton. Alworth. Albany, Longyear Dunwoody. Chataco. Elbern. Grant. Grant. Wanless. Atkins, Wade National Taconite. Mesabi Chief Washer, Aromac, Perry, Mississippi. O'Brien York. Hawkins (MacKilican). Butler Taconite. Butler Taconite. Butler Taconite. Hill Annex Creta. Hill Annex Fines, Hill Trumbull Washer. Hill Spur. Holman. Hunner. Canisteo, Danube. West Hill. Jessie. Greenway.	 0.53 miles east of Kelly Lake 0.72 miles east of Kelly Lake 1.81 miles east of Kelly Lake 1.98 miles east of Kelly Lake 2.42 miles west of North Mitchell 0.82 miles east of Emmert 0.74 miles west of Buhl 1.22 miles west of Buhl 1.22 miles west of Buhl 1.38 miles east of Buhl 2.47 miles west of Kelly Lake 2.47 miles west of Kelly Lake 2.40 miles west of Kelly Lake 2.01 miles west of Keewatin 2.01 miles west of Nashwauk 0.16 miles east of Nashwauk 0.13 miles east of Nashwauk 	В В В В В В В В В В В В В В В В В В В
Douglas Shop Spur Wacootah Storage Track Keewatin Saw Mill Spur Mid-Range Builders Supply Minn. Power & Light Spur Ryan and Gillis Spur Marble Spur Oil Spur	 2.18 miles east of Emmert 2.70 miles west of Virginia 1.92 miles west of Kelly Lake. 0.15 miles east of Nashwauk 1.08 miles east of Nashwauk 3.01 miles west of Nashwauk 0.97 miles west of Calumet 1.19 miles east of Canisteo 9.50 miles west of N.P. Ry. Jct. 4.05 miles west of Princeton 	9 28 10 7 15 30 6 35	E & W E W W W W W E & W		D TABLE Time Per Mile Miles	
Sixth Subdivision	5.42 miles west of Brookston 5.84 miles west of Fermoy	19 16	E	49 78.5 50 72.0 51 70.6 52 69.2 58 67.9	1 24 42.9 1 26 41.9 1 28 40.9 1 30 40.0	
Kanabec Hdwe. Co. Spur Bock. Rural Co-op. Power Ass'n. Spur Foreston. Oaks.	 5.39 miles west of Brook Park 0.96 miles east of Mora 6.88 miles west of Ogilvie 0.49 miles east of Milaca 3.30 miles west of Milaca 9.14 miles west of Milaca 4.30 miles west of Foley 	7 4 3 33 30 31	E ₩₩ ₩₩ E & & & W E E & & W	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	

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