

COMPANY SURGEONS

		Skinner							Minn.
*Dr.	Charles	T. Egin	ton. A	sst. to	Chf. I	Med.	Officer	, ,	
									Minn

c ,	St. Paul, Minn.
*Dr. Darrell E. Westover	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. Victor E. Ekblad Dr. Milton Finn	Superior, Wis
Dr. Fred Johnson	Superior, Wis.
Dr. E. G. Stack	Superior, Wis.
Dr. Raymond J. Snurzem	Anoka Minn
 Dr. Leroy J. Larson *Dr. Einar W. Johnson Dr. T. P. Groschupf Dr. Wm. T. Nygren Dr. W. Will 	Bagley, Minn.
*Dr. Einar W. Johnson	Bemidji, Minn.
Dr. T. P. Groschupf	Bemidji, Minn.
Dr. Wm. T. Nygren	Braham, Minn.
Dr. W. W. Will	Bertha, Minn.
Dr. G. E. Larson	
Dr. G. W. Schossow	Erskine, Minn.
Dr. George A. Sather	Fosston, Minn
Dr. N. F. Musachio	Foley, Minn
Dr. C. E. Norberg Dr. Gordon C. MacRae	Cloquet, Minn.
Dr. Gordon C. MacDao	Duluth Minn
Dr. Gordon C. Macrae	
*Dr. C. H. Coombs	Cass Lake. Minn.
Dr. C. H. Coombs Dr. R. W. Brockway	Grand Rapida, Minn.
*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta	Grand Rapids, Minn. Grand Rapids, Minn.
*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams	
*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson	Cass Lake, Minn, Grand Rapids, Minn, Grand Rapids, Minn, Hibbing, Minn, Hibbing, Minn,
*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson Dr. John J. Muller	
*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson Dr. John J. Muller Dr. R. L. Christie	Grand Rapids, Minn. Grand Rapids, Minn. Grand Rapids, Minn. Hibbing, Minn. Hibbing, Minn. Hibbing, Minn.
*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson Dr. John J. Muller Dr. R. L. Christie Dr. Paul J. Keith	Cass Lake, Minn, Grand Rapids, Minn. Grand Rapids, Minn. Hibbing, Minn. Hibbing, Minn. Long Prairie, Minn. Milaca, Minn.
*Dr. C. H. Coombs Dr. R. W. Brockway	Cass Lake, Minn. Grand Rapids, Minn. Grand Rapids, Minn. Hibbing, Minn. Hibbing, Minn. Long Prairie, Minn. Milaca, Minn. Mora, Minn.
*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson Dr. John J. Muller Dr. R. L. Christie Dr. Paul J. Keith Dr. C. S. Bossert Dr. E. G. Hubin	Cass Lake, Minn. Grand Rapids, Minn. Grand Rapids, Minn. Hibbing, Minn. Hibbing, Minn. Long Prairie, Minn. Milaca, Minn. Sandstone, Minn.
*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson Dr. John J. Muller Dr. R. L. Christie Dr. Paul J. Keith Dr. C. S. Bossert Dr. E. G. Hubin	Cass Lake, Minn. Grand Rapids, Minn. Grand Rapids, Minn. Hibbing, Minn. Hibbing, Minn. Long Prairie, Minn. Milaca, Minn. Mora, Minn. Sandstone, Minn.
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*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson Dr. John J. Muller Dr. R. L. Christie Dr. Paul J. Keith Dr. C. S. Bossert Dr. E. G. Hubin *Dr. H. W. Goehrs Dr. G. H. Goehrs *Dr. J. F. Du Bois	Cass Lake, Minn, Grand Rapids, Minn. Grand Rapids, Minn. Hibbing, Minn. Hibbing, Minn. Long Prairie, Minn. Mora, Minn. Sandstone, Minn. St. Cloud, Minn. Sauk Contra Winn.
*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson Dr. John J. Muller Dr. R. L. Christie Dr. Paul J. Keith Dr. C. S. Bossert Dr. E. G. Hubin *Dr. H. W. Goehrs Dr. G. H. Goehrs Dr. G. H. Goehrs Dr. J. F. DuBois	Cass Lake, Minn, Grand Rapids, Minn. Grand Rapids, Minn. Hibbing, Minn. Hibbing, Minn. Long Prairie, Minn. Milaca, Minn. Sandstone, Minn. St. Cloud, Minn. Sauk Centre, Minn. Sauk Centre, Minn.
*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson Dr. John J. Muller Dr. R. L. Christie Dr. Paul J. Keith Dr. C. S. Bossert Dr. E. G. Hubin *Dr. H. W. Goehrs Dr. G. H. Goehrs Dr. G. H. Goehrs Dr. J. F. DuBois *Dr. Julian F. DuBois, Jr.	Cass Lake, Minn. Grand Rapids, Minn. Grand Rapids, Minn. Hibbing, Minn. Hibbing, Minn. Long Prairie, Minn. Milaca, Minn. Sandstone, Minn. St. Cloud, Minn. Sauk Centre, Minn. Sauk Centre, Minn. Sauk Centre, Minn.
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 Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson Dr. John J. Muller Dr. R. L. Christie Dr. Paul J. Keith Dr. C. S. Bossert Dr. E. G. Hubin *Dr. H. W. Goehrs *Dr. J. F. DuBois *Dr. Julian F. DuBois, Jr. *Dr. E. N. Peterson Dr. E. N. Peterson 	Cass Lake, Minn, Grand Rapids, Minn. Grand Rapids, Minn. Hibbing, Minn. Hibbing, Minn. Long Prairie, Minn. Mora, Minn. Sandstone, Minn. St. Cloud, Minn. Sauk Centre, Minn. Sauk Centre, Minn. Sauk Centre, Minn. Virginia, Minn.
*Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson Dr. John J. Muller Dr. Paul J. Keith Dr. C. S. Bossert Dr. E. G. Hubin *Dr. H. W. Goehrs Dr. G. H. Goehrs Dr. G. H. Goehrs *Dr. J. F. DuBois *Dr. Julian F. DuBois, Jr. *Dr. John C. Grant Dr. J. Arnold Malmstrom *Dr. Juther F. Davis	Cass Lake, Minn, Grand Rapids, Minn. Grand Rapids, Minn. Hibbing, Minn. Hibbing, Minn. Long Prairie, Minn. Mora, Minn. Sandstone, Minn. St. Cloud, Minn. St. Cloud, Minn. Sauk Centre, Minn. Sauk Centre, Minn. Sauk Centre, Minn. Virginia, Minn. Wirginia, Minn.
 Dr. C. H. Coombs Dr. R. W. Brockway *Dr. John B. Evensta *Dr. B. S. Adams Dr. Clarence Jacobson Dr. John J. Muller Dr. R. L. Christie Dr. Paul J. Keith Dr. C. S. Bossert Dr. E. G. Hubin *Dr. H. W. Goehrs Dr. J. F. DuBois *Dr. Julian F. DuBois, Jr. *Dr. John C. Grant Dr. John C. Grant 	Cass Lake, Minn, Grand Rapids, Minn. Grand Rapids, Minn. Hibbing, Minn. Hibbing, Minn. Long Prairie, Minn. Mora, Minn. Sandstone, Minn. St. Cloud, Minn. St. Cloud, Minn. Sauk Centre, Minn. Sauk Centre, Minn. Sauk Centre, Minn. Virginia, Minn. Wirginia, Minn.

*Designates also Examining Surgeon.

OPHTHALMIC SURGEONS

(Eye Doctors)

Dr. Edward P. Burch	
Dr. Charles E. Stanford	
Dr. Malcolm A. McCannel	Minneapolis, Minn.
Dr. John E. Power	
Dr. T. J. Doyle	Superior, Wis
Dr. Roger T. Thompson	Superior, Wis
Dr. W. T. Wenner	St. Cloud, Minn.

E. G. STACK, Chief Dispatcher.

C. W. HAMMER, Chief Dispatcher.

R. R. McENARY, Trainmaster.

W. R. RICHTER, Trainmaster.

W. T. SLOAN, Trainmaster.

Scanned from the Dean Ogle Collection

GREAT NORTHERN RAILWAY COMPANY

MESABI DIVISION TIME TABLE

72

EFFECTIVE 12:01 A. M.

CENTRAL TIME

Tuesday, September 8, 1959

E. F. OVIATT, Superintendent. R. N. WHITMAN, General Manager. A.W. CAMPBELL, General Superintendent Transportation.

Printed in U.S.A.

2	W	EST	WARI	D				FI	RST	SUBDIVISION							EA	STWA	RD
Ę		ar acity	SEC	OND CI	LASS	FIR	RST CL	ASS		Time Table		_			FI	RST CL	ASS	SECON	D CLASS
Station Numbers	Sidings	Other Tracks			407		19	23	Distance from Duluth	No. 72 Effective September 8, 1959 STATIONS		Telegraph Calls	Distance from St. Paul	SIGNS	24	20		408	
 J 139		82			Daily		Daily	Dally			=	DU	159.97		A L FO	Datly		Dally	
			· • • • • • • • • • •				1. 4.30Pm A 4.36Pm	L 8.00Am A 8.06Am	2.37	DULUTH 2.37 BRIDGE SWITCH			157.60	******	Т	A 7.45Pm L 7.39Pm		l	
TRAINS BETWEEN ELEVATOR STATION AND DULUTH TERMINAL DEPOT ARE GOVERNED BY NORTHERN PACIFIC, DULUTH AND SUPERIOR TERMINALS TIME TABLE																			
•••••	•••••	•••••	· · · · · · · · · · ·	·····	· · · · · · · · · · ·		s 4.45	s 8.15	3.23 4.22	ELEVATOR STATION 0.99 SUPERIOR	 	BY	156.74 155.75	RKP WBXO	s11.43	s 7.30			
J 136 J 131	Yard	5689 32	····		•••••				5.41 8.40	출 철25TH ST 2.99		•••••	154.56	PX V			· · • • • • • • • •		
	IRST		TRAINS BE	TWEEN CE	NTRAL AV	E. TOWER	AND DUL	UTH TERM		POT ARE GOVERNED BY N	IOR	THERN	PACIFI	• •	H AND SU	JPERIOR T	ERMINALS	TIME TA	BLE
	•••••				^L 10.15Pm		L 4.53Pm	l 8.23Am	8.67	NOR CENTRAL AVE. TOWER		su	151.30	RIDNPXJ	A) 1.33Am	A 7.19Pm		A 2.50Am	
J 130 J 125	Yard	297			10.22 10.29		4.56 4.59	8.26 8.29	10.37 13.43	1.70 H		В	149.60	IRDNPXJ PJ	11.30	7.16	•••••	2.45 2 .3 5	
J 121	95	7			10.29		4.39	6.29 f 8.36	18.54	5.11 DEDHAM		•••••	141.43		rii.19			2.35	
J 113	127	10			10.58		5.12	s 8.44	24.71	6.17 FOXBORO 5.28			135.26	1 1	r ii.i0	7.01		2.12	
J 109 J 103		3			11.33	· · • • • • • • • • • • • • • • • • • •	 5.23	f 8.51 s 9.00	29.99 36.74	5.28 HOLYOKE 6.75 NiCKERSON		 NS	129.98 123.23	1 1	r 1.03 r 0.54	6.51	. 	 1 . 50	
J 99		4	· · • • • · • · · · ·		11.38	· • • • • • • • • • • • • • • • • • • •		s 9.00 s 9.05	40.65	3.91 DUQUETTE			119.32		r10.54				
J 96		38		••••••	11.43	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	s 9.10	43.18	2.53 KERRICK		ĸ	116.79	DP	r10.44			1.40	
J 91 J 82	110 135	14			11.53 12.05 _{Am}	•••••••		s 9.18 s 9.29	48.93 57.31	5,75 BRUNO 8,38 ASKOV	A	 RD	111.04 102.66	P DP	s10.37 s10.27	6.41 6.34		1.30 1.15	
J 76		426			408 12.25 12.55		s 5.48	s 9.39	63.17	5.86 SANDSTONE . ★	AUTOMATIC	NA		DNPWXI		s 6.28		407 1.00 12.35	
J 67	• 144	23 16			1.15 1.17		5.58	s 9.49 9.50	71.99 72.36	8.82 HINCKLEY 0.37 HINCKLEY TOWEP	TIC BLO	н нт	87.98 87.61	DP DNPI	s10.10 10.09	6.15		12.05 12.03Am	
 J 59	167	6			1.37		6.07	s 10.00	80.21	7.85 BROOK PARK	OCK SIG	вк	79.76	DP	s 10.00	6.07		11.39	
J JY		•	· · · · · · · · · ·	· · · · · · · · · · · ·	1.38	· · · · · · · · · · · ·	6.08	10.01	80.54	0.33 BROOK PARK JOT	GNALS	BK	79.43	PJ	9.59	6.06	•••	11.39	
GA54	16	4	· • • • • • • • • •		1.50	· • • • • • • • • •		s10.07	86.01	5.47 HENRIETTE 5.44	S		73.96		s 9.54			11.24	
GA49 GA43	107 59	32 35			2.02 2.14	••••••		s10.14 s10.21	91.45 96 <i>.</i> 72	GRASSTON 5.27 BRAHAM		 RA	68.52 63.25		s 9.47 s 9.41	5.57 5.52	••••••	11.09 10.54	
GA40		19			2.21	· · · · · · · · · · · · · · · · · · ·		s10.26	100.15	3.43 STANCHFIELD		 	59.82		s 9.36			10.43	
GA38	••••	30			2.27			s10.30	102.64	2.49 GRANDY 4.88			57.33		s 9.32		. 	10.37	
GA33 GA27	104	123 55			2.37 2.49			s10.37 s10.44	107.52 113.17	CAMBRIDGE 5.65 ISANTI		CG IS	52.45 46.80	1	a 9.25 s 9.15	s 5.43		10.23	••••
GA27 GA21	99	49			3.01			\$10.44 \$10.53	119.19	6.02 BETHEL		BE	40.80	1 1	s 9.15 s 9.07	5.34		9.52	
GA15		20			3.13			f .00	125.34	6.15 CEDAR 5.69		•••••	34.63	Р	r 8.58			9.35	
GA 9 G 13	99	13			3.25 A 3.40Am			f i.05 A. f l. iAm	131.03 136.99	ANDOVER 5.96 COON CREEK JCT		 CN	28.94 22.98		1 8.51 L 1 8.464	5.24 1.5.19Pm	•••••	9.20 1. 9.00Pm	••••
				TRAINS						HTOWN ARE GOVERNED) BY		1	1		1	1		
					_	_		the second s	_	L ARE GOVERNED BY TWI						······			
					5.25		2.26	A 1.59Am 3.11	159.97	22.98 ST. PAUL					3.12	L 4.30Pm 2.26		5.50	<u></u>
	5.25 2.26 3.11 Time Over Subdivision 3.12 2.26 5.50 23.7 56.3 43.0 Average Speed Per Hour 42.8 56.3 23.5 Westward trains are superior to eastward trains of the same class.																		
<u> </u>						SEE	ADDITI	ONAL SP	ECIAL	INSTRUCTIONS PAGES	36	THR	DUGH	15.					

W	EST	WA	RD				SE	CC	ND SUBDIVISION	[EA	STWAI	2D 3
2		ar acity			SECON	CLASS			Time Table No. 72				SECON	D CLASS		
Station Numbers						163 Soo Line	e from	I	ffective September 8, 1959	•	Telegraph Cails	SIGNS	162 Soo Line			
Station	Sidings	Other Tracks				Tues., Thur., Sat.	Distance Duluth		STATIONS		Telegre		Mon., Wed. Fri.	,		
J125					 		13.43		BOYLSTON	<u>ו</u>		Р		· [
Y251	99	2		[19.21		5.78 DEWEY 3.88			Р	•••••			
Y249							23.09		STATE LINE TOWER		S	DNPI	••••••			
•••••							26.93	¥	BRIDGE 29		<u></u>	1P	<u></u>	<u></u>	<u></u>	· · · · · · · · · · · · · · · · · · ·
								TRACK	6.08	A						
Y236	85	10					33.01	lω⊀		AUTOMATIC	A	DNPI	•••••		•••••	• • • • • • • • •
Y229		239					38.97	DOUBL		AT	KN	DPX			•••••	• • • • • • • • •
Y213	89	81					55,45	ă	BROOKSTON★ 12.45		BN	JDNPWXY			••••••	• • • • • • • • • •
Y200		12					67.90		MIRBAT 5.37	BLOCK	•••••	Р			•••••	••••
¥195		64	<u></u>				73.27		FLOODWOOD	CKS		DP	·····	·····	·····	
Y178		82					89.83		16.56 	SIGN	WA	JDNP I				
	200						98.78		8.95 PHILBIN	IGNALS		PI			* * * * * * * * * * * * *	
Y161	96	175					106.30		7.52 GUNN		Gυ	JYIDNPX				
Y159	92	240					109.34		3.04 GRAND RAPIDS		GR	DNXP				
Y1 <i>5</i> 7	48	30					113.04		3.70 SEYTON			PX				
									1.19							
Y156	123	9					114.23	[•••	COHASSET)		P	•••••		•••••	••••••
Y145	135	96					123.60	• • •	DEER RIVER	•••	Ri.	DNPX			•••••	•••••
Y138	70	16					130.70	• • •	BALL CLUB	•••	••••	P	•••••	•••••	•••••	• • • • • • • • • •
Y125	69	22	[•] ••••••••••				143.60		BENA 7.55 SCHLEY	•••	BA	DP P	•••••	••••	•••••	• • • • • • • • • •
Y118	123	4	<u></u>				151.15	<u></u>		<u> </u>	·····			·····		
						L 8.43Am	153.21		soo jct			JPV	А 3.30Рл			
Y106	Yard	681				9.05	162.69			۲	cs	BRDNKWXPYO	3. 05			
¥101		15				9.14	166.82		4.13 			P	2.50			
Y 96	69	10				9.24	172.34		5.52 			P	2.38			
Y 90	70	191				a 9.35Am	177.96	•••	5.62 BEMIDJI		вм	JBDNPWXVI	L 2.24Pm			
Y 84	70	10					184.11	•••	6.15 WILTON	•••	N	DP				•••••
							190.24		6.13 SOLWAY		so					-
Y 78	•••••	26					196.44	•••	6.20 SHEVLIN	•••	VN	DP DP	•••••		•••••	•••••
Y 72	69	27					203.14	•••	6.70 BAGLEY	•••	BY	DP			•••••	• • • • • • • • • •
Y 65	75	76					210.46	•••	7.32 EBRO	• • •	RO	DP				•••••
Y 58 Y 52	101 70	27	• • • • • • • • • • • •				216.48	•••	6.02 LENGBY	•••	G	DP				•••••
· J2		23							7.02		<u> </u>					
Y 45	70	109					223.50	•••	FOSSTON 7.59	•••	FO	DP	•••••			• • • • • • • • •
Y 37	70	35					231.09	•••		•••	MO	DP	••••			• • • • • • • • • •
Y 31	72	37					237.14	•••	ERSKINE 6.65	•••	RS	DPi				• • • • • • • • • •
Y 24	71	34		·····		·····	243.79			•••	MT	DP		•••••		• • • • • • • • • •
Y 17	••••	·····			· · · · · · · · · · · · · · · · · · ·		250.53			· · ·	ON	DPJV	·····		·····	••••••
Y 12	70	29					255.17		4.64 BENOIT			P				
A298	Yard	359					267.62		12.45 CROOKSTON YARD			BOPYX				
	- I												DIMO		TADIT	
	T	RAIN	NS BETW	EEN CR	UOKSTO	N YARD	AND	CR	OOKSTON ARE GOVER	NE	.D BY	DAKOTA			IABLE	
	. .	. 	<u></u>	<u></u>	<u></u>		269.60	:-	1.98 CROOKSTON	<u></u>	<u></u>	NBRDKX	<u></u>	<u></u>		<u></u> .
						.52 28.55		-	Time Over Subcivision Average Speed Per Hour				1.06 22.5			
			·			tward trai			erior to eastward trains of IAL INSTRUCTIONS PAGES (

4 W	ES	TW	ARD J	HIR	D SUBDIVISIO	NI	EAST	WARD	WE	ST	WAI	RD H	FOUR	TH SUBDIVISION EA	STV	VARD
Station Numbers	Cap	Other Tracks Ap	SECOND CLASS 523 Daily Ex. Sun.	Distance from Sauk Centre	Time Table No. 72 Effective September 8, 1959 STATIONS	Telegraph Calls	SIGNS	SECOND CLASS 524 Dafly Ex. Sun.	Station Numbers		Other Tracks	Distance from Virgínia		Time Table No. 72 ffective September 8, 1959 STATIONS	Telegraph Calls	SIGNS
 K-10 K-14 K-18 K-24 K-32 K-36	39	5 15 63 53 31 32	L 4.30Am 4.55 5.10 6.10 6.55 7.40 8.20	0.14 10.38 13.84 18.58 26.44 31.82 36.51	0.14 PARK RAPIDS JCT. 10.24 LITTLE SAUK 3.46 ROUND PRAIRIE 4.74 LONG PRAIRIE 7.86 BROWERVILLE 5.38 CLARISSA 4.69 EAGLE BEND	NE VI RU GD	JPX D D D D D	▲ 12.15Pm 11.35 11.25 11.15 10.30 9.55 9.25 ⁸²³	YC17 YC9 YC8 YC7 YC6	Yard 35 45 80	102 60	0.99 3.31 8.64 9.82 10.11 11.85 12.08 13.00		VIRGINIA WACOOTAH HELLIOT SIDING DORMER JCT. LUCKNOW SHERWOOD JCT. 0.23 0.23 BUHL 0.92 FRAZER YARD	VA BU	RDPXY X PX PX PX PX JXV DPX PXV
K-44 K-48 K-56 K-50 K-70 K-79	23	27 27 52 28 30 27	9.15 9.15 10.00 10.10 10.50 11.35	44.02 48.05 56.19 60.51 70.44 79.17	7.51 BERTHA 4.03 HEWITT 8.14 4.32 LEAF RIVER	BR HW WD SK MH	D D DI DW D	9.00 8.50 8.30 7.35 7.15 6.50	YD61 YD60 YD59 YB31 YB30 YB29	39 Yard 	150 	15.53 16.00 16.35 18.93 19.64 20.49 21.47	BLE TRACK	LLBERN SIDING	•••••	PX JPXV JPXV JPXV PXI JPXV JPXV DPX
K-91 K-98 K-103 K-109 K-119	30	116 15 29 27 32	1.20pm 1.45 2.10 2.40 3.10	91.17 97.74 103.07 109.32 118.81 120.92	12,00 PARK RAPIDS 6.57 	J N AY K	D D D DV	6.20 5.30 5.10 4.50 4.25	YB25 YB15 YB 6 Y178	Yard 62 63	1329 82	22.05 25.15 35.97 44.43 50.60			КҮ 	IX BRKDNP WXYJO P P JDNPI
K-124 K-131 Y-106	Yard	VAR		124.19 131.04 140.38	LEECH LAKE 6.85 WILKINSON 9.34			8.45 16.04	Station Numbers	_	Cara Capad	.	Distance from Brookston	Time Table No. 72 Effective September 8, 1959	elegraph Calls	WARD signs
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Westward trains are superior to Eastward trains of the same class on the Seventh, Eighth, Ninth and Tenth Subdivisions. SEE ADDITIONAL SPECIAL INSTRUCTIONS PAGES 6 THROUGH 15.

ALL SUBDIVISIONS

1. SPEED RESTRICTIONS GENERAL.

(a) 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 on the lookout for broken rail or anything that may require the speed of a train to be reduced; but not exceeding 15 MPH or as much slower as necessary; and where conditions require the movement must be controlled so stop can be made in time to avoid accident.

(b) Maximum permissible speed of passenger, freight and mixed trains will be designated by distinctive reflectorized roadway signs set in an upward angle of 45 degrees. Except as directly affected by speed restrictions prescribed in Item 1—ALL SUB-DIVISIONS—and other speed restrictions covered by Item 2 under individual Subdivisions, the 45 degree signs designate zone speed territories and the numerals thereon indicate in miles per hour the maximum permissible speed which will govern until the next zone sign is reached.

When the movement is from a higher to a lower speed zone, the zone sign is located approximately one mile from the point where the lower speed becomes effective. At the end of this one mile is located a reflectorized angular Restricting Sign, yellow background with black stripes, indicating the point where lower speed becomes effective. Lower speed to govern until entire train passes next zone sign.

When the movement is from a lower to a higher speed zone, the 45 degree sign is located at the point where speed may be increased.

In double track territory, when trains or engines are operated against the current of traffic or when one of the tracks is used as single track, in either case if the track being used is not signaled for traffic in the direction of the movement, the maximum permissible speed is, Passenger 59 MPH, Freight 49 MPH. This does not modify Rule 93. Further, trains and engines operating under the above conditions must not exceed the maximum permissible speed prescribed by the 45 degree signs with the current of traffic.

On subdivisions where both passenger and freight trains are operated, the 45 degree sign has two sets of figures, the numerals preceded with the letter "P" apply to passenger trains. The numerals preceded with the letter "F" apply to freight and mixed trains, and to passenger trains when handling freight cars, except cars equipped with steel wheels, air signal and steam heat lines. On subdivisions where normally only freight or mixed trains are operated, the 45 degree sign may have just one set of figures preceded with the letter "F", which applies to all trains. (c) Speed shown on Speed Limit Plate on engines must not be exceeded.

(d) Diesel engines, light or with caboose only	50 MPH
When cabooses are handled in passenger service, trains	
will not exceed speed of:	
when handling Cabooses X-1 to X-30, X-100,	AF MOT
X-198 to X-310	
Cabooses X-330 to X-749 Trains handling, not in actual service, derricks, pile	50 MPH
drivers, ditchers, cranes, shovels, Jordan	
Spreaders, wedge plows, etc., on Main Lines	30 MPH
except on 6 degree curves or sharper, and on Branch	
Lines	15 MPH
Trains handling ore cars or air dump cars loaded with	00 1000
ore or gravel, and scale test cars, on Main Lines except on 6 degree curves or sharper, and on Branch	30 MPH
Linos	20 MPH
Unless conditions require a further speed restriction,	DU BII II
trains or engines moving against the current of	
traffic on double track through interlockings	1 5 MPH
Trains or engines moving on main routes actuating	07 1/DT
points of spring switches	35 MPH
Trains or engines moving in facing point direction at spring switches without facing point lock	25 MPH
Trains or engines through No. 20 turnouts at:	
SaundersCrossover switches between	
and westward main tracks.	

BoylstonCrossover switches between eastward and westward main tracks.
Dedham
Askov
Hinckley TowerEast and west siding switch.
Brook Park
Brook Park JctJunction switch to 7th Subdivision.
Grasston
Coon Creek JctJunction switch to 1st Subdivision.
Coon Creek Crossover switches between N. P. and
G. N. main tracks.
BrookstonCrossover switches between eastward
and westward main tracks.
Junction switch to 6th Subdivision.
Swan RiverEnd of double track.
Junction switch to 4th Subdivision.
PhilbinEast and west siding switch.
Trains or engines through No. 15 turnouts at:
Central Ave.
TowerCrossover switches between eastward
and westward main tracks.
SaundersJunction switch to 8th Subdivision.
BoylstonJunction switch to 2nd Subdivision.
Bridge 1.3 End of double track.
Bridge 29 East and west switch of gantlet.
GunnJunction switch to 2nd Subdivision.
Gunn YardJunction switch to 10th Subdivision.

(e) Open cars loaded with poles, piling, lumber, timber, pipe or other lading which might shift, shall be handled as far as possible in pole trains or local trains. Except at points where it is necessary to classify trains, such cars should be placed as close as possible to the head end of the train but shall not be placed immediately next to Diesel engines, or immediately next to caboose, occupied outfit or passenger cars. These commodities must not be placed in trains at such locations as will conflict with the rules governing the handling of explosives, inflammables or acids.

In double track territory, engineers on trains containing such cars must at all times use extreme care to avoid slack running in or out when passing or being passed by other trains.

On single track, trains containing such cars must be at stop when on siding or adjacent track when meeting or being passed by other trains, except when there are more cars than siding will hold, it is permissible for such train to pull by other train at restricted speed.

2. MOVEMENT OF ENGINES DEAD IN TRAINS.

Diesel and Diesel-Electric engines 2303-2350 must be handled on rear of train.

Single unit switcher and road switcher type diesel engines moving dead in freight trains are to be handled not less than five (5) cars, or more than fifteen (15) cars from road engine. Additional units are to be separated by not less than five (5) cars. Multiple unit groups, not exceeding four (4) units, all equipped with alignment control couplers moving dead in freight trains, are to be handled not less than five (5) cars from road engine. Additional groups or single units are to be separated by not less than five (5) cars.

Trains handling Diesel and Diesel-Electric engines in tow dead in train will not exceed following speeds:

3. Under Rule 24, engine number only will be displayed in indicators on engines so equipped. This will also apply when our engines are operating over Northern Pacific tracks. Between Klamath Falls and Chemult, Southern Pacific Rules will govern.

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4. When two or more Diesel engine units are coupled together the numerals and suffix letter, where provided, of the leading unit will be illuminated at all times when in service. The numerals and suffix letter of trailing units must not be illuminated.

The numerals and suffix letter of the leading unit only will be used in train orders as prescribed by Consolidated Code Rule 206.

5. Air hose on engines must be hooked up in hose fastener when not in use.

6. EMPLOYEES WILL BE GOVERNED AS FOLLOWS ON EN-GINES, PASSENGER AND FREIGHT CARS EQUIPPED WITH ROLLER BEARINGS:

Roller bearing failures on cars or engines equipped with roller bearing journal 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 engine or valve oil added. Oil must never be added to a box that is blazing. Grease lubricated roller bearing boxes have grease plugs locked with metal strap which must be cut off with chisel before plug can be removed. After the oil has been added and plug replaced, the train should proceed at reduced speed and care exercised until it is apparent that the box will run cool. If fire develops in roller bearing box on any equipment, it must be closely watched, train moved slowly, and Superintendent notified from first available point of communication, who will prescribe for the movement.

Some engines and cars equipped with roller bearings have heat indicators or stench bombs inserted in the housing of boxes which release a strong pungent odor in the event of excessive journal box temperatures. When this odor is detected, train must be stopped at once and box located. Compare the temperature of this box with the other boxes on the same engine or car, check the oil level, and if there is no evidence of overheating, train may proceed, but if the box is overheating proceed only as instructed in the preceding paragraph.

Cars and engines equipped with roller bearings must not be allowed to stand alone, even on level track, without brakes being adequately applied.

7. COOLING AND STEAM BOILER WATERING FACILITIES FOR DIESEL ENGINES ARE PROVIDED AT THE FOLLOW-ING INTERMEDIATE STATIONS:

FIRST SUBDIVISION

SANDSTONE :.....Both at Boxes at East & West end depot platform.

SECOND SUBDIVISION

CASS LAKE:East & West end depot. BEMIDJI:Both at depot. THIRD SUBDIVISION SEBEKA:Both at depot.

8. Under Rule 2, watches that have been examined and certified to by a designated inspector must be used by yardmen. Rule 2A of the Consolidated Code of Operating Rules and General Instructions does not apply to employes of the Great North-

ern Railway.

- 9. 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.
- 10. When operating snow machines in non-block signal territory no train should be permitted to follow closer than a station apart, when that cannot be done they will be blocked not less than thirty minutes apart.
- 11. After severe blizzard or dirt storm, employes on first train over road must exercise care to avoid accident caused by striking drift without first having drifts faced with hand shovels, cutting in far enough to get beyond the hard snow and giving a perpendicular wall to strike against instead of slope or wedge-like shape. When operating snow dozer, conductor in charge will ride in the dozer.

On snow and dirt dozers every precaution must be taken to see that cage, flangers and wings clear all obstacles when in service and are properly secured when in through trains, and dozers properly turned. Hand screws must be tightened to raise flanger on dozers as high as possible before making a back-up movement, and must not be released until the dozing work is actually to start. Hand screws holding the cage on dozers must be tightened or chains otherwise fastened except when dozer has air in cylinders and is attended by an employe.

- 12. Loaded dump cars should not be handled on double track after dark, but if necessary to do so, close watch must be kept by trainmen and if a car dumps its load, train must be stopped and protection afforded on the opposite track.
- 13. Unless otherwise provided, when passenger trains are operated against current of traffic on double track or through sidings, conductors shall notify Railway Postal Clerks, trains shall stop at points where U. S. Mail is usually picked up and Conductors are responsible for delivery of mail to Postal car.
- 14. Conductors will report by wire, all flat spots on wheels of passenger cars. Any cars having flat spots on wheels of more than two and one-half inches long must be set out.
- 15. Engineers finding flat spots on Diesel engines in excess of two and one-half inches will immediately notify Superintendent who will prescribe for their movement.
- 16. Due to limited overhead clearance at tunnels and structures, employes 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.
- 17. The Railway Company is responsible for proper handling of perishable freight on road and at points where Western Fruit Express Company do not maintain representatives. Conductors on trains handling perishable freight will ascertain from waybills class of service required and light or extinguish heaters and manipulate vents in accordance with current instructions provided for handling perishable freight issued by the National Perishable Freight Committee.
- 18. Placarded loaded tank cars handled in through freight trains shall not be nearer than 6th car from engine, occupied caboose or passenger car.

Cars placarded "Explosives", "Inflammable", "Corrosive Liquids", or "Poison Gas" handled in through freight trains, local and mixed trains, shall not be nearer than 16th car from engine, occupied caboose or passenger car.

When length of train will not permit handling of cars as prescribed above—ANY PLACARDED CAR, loaded with above commodities—shall be placed near middle of train, but not nearer than 2nd car from engine, occupied caboose or passenger car.

When switching such cars in terminal yards they must be separated from engine by at least one non-placarded car.

When placarded cars described above are handled in freight trains made up in "blocks" or classifications, placarded car or cars shall be placed near middle of the "block" or classification, but not nearer than 6th car from engine, occupied caboose or passenger car.

When such placarded cars are placed in trains they must not be placed next to each other, next to refrigerators equipped with gas-burning heaters, stoves or lanterns, or next to loaded flat cars, or gondola cars containing lading higher than ends of car that is liable to shift.

Carload express shipments of explosives, sealed and placarded, may be handled on passenger trains; LCL shipments may be made in so-called peddler car with messenger in charge when such car is assigned to the handling of express and baggage exclusively.

Terminal or pick-up points enroute must furnish conductor and engineer Form 250 showing consecutively location in train of all cars placarded "Explosives". At points other than terminals where crews change, notice will be transferred from crew to crew.

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Employes will be guided by further instructions governing handling of loaded tank cars, Explosives, Inflammables, Corrosive Liquids, and Poison Gas found in I.C.C. Regulations and Consolidated Code Rules 726(C) and 808.

- 19. In Automatic Block Signal Territory, the absence of the lunar light on a spring switch signal, Rule 501 E, page 114, of the Consolidated Code, will not be regarded as an imperfectly displayed signal, as prescribed by Rule 27, when the Automatic Block Signal governing movement over such switch indicates "Proceed". This does not modify Rule D-524.
- 20. The normal position of a spring switch with facing point lock is identified by a color light type signal displaying a "lunar white" light for train or engine movements in a trailing point direction and for movements in facing point direction when conditions require.

The normal position of a spring switch without facing point lock is identified by a triangular yellow target on switch stand with letter "S" in black, and "lunar white" light in switch lamp in place of green light displayed in both directions through or over the switch.

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.

INDICATORS AT SPRING SWITCHES.

Spring switch indicators consisting of a red and yellow light unit or a single yellow light unit (all units normally dark) mounted on an iron mast is located at the clearance point of a siding. The switch-key-controller mounted on the mast must be operated by a member of the crew who, together with engineer, must observe and be governed by its indication before fouling main track or making movement from siding to main track through a spring switch in automatic signal territory, unless the movement is made immediately after an opposing train has passed the switch, and Automatic Signal at leaving end of siding indicates "Proceed".

If Indicator displays a yellow light when switch-key-controller is operated, train or engine movement to main track may be made immediately in accordance with train rights and operating rules. Display of yellow light must continue until leading wheels have passed clearance point.

If Indicator does not display a yellow light when switch-keycontroller is operated, train or engine movement to main track may be made in accordance with train rights and operating rules, after operating spring switch by hand; waiting three minutes and taking every precaution to provide proper protection.

To operate Switch Indicator, insert switch key in controller and turn clockwise toward "R", hold a few seconds, and remove key. If yellow light is displayed and intended movement is not made, insert switch key in controller and turn counter-clockwise toward "N" to restore signal system to normal condition to avoid delay to trains on main track.

Switch-key-controller must never be operated toward "N" after having been operated toward "R" if intended movement to main track is to be made.

- 21. 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.
- 22. DRAGGING EQUIPMENT DETECTOR INDICATOR consists of a single white light unit (normally dark) with circular background mounted on signal or other mast. When white light is

displayed, train must be stopped and inspected for dragging equipment. Notify Superintendent from first available point of communication.

- 23. Rule 204 (A) prescribes that copies of train orders will be furnished the rear trainman, such orders will only be furnished on trains designated. Nos. 3, 4, 7, 8, 9, 10, 27, 28, 31, 32 and sections thereof; also, extra passenger train whether operated as a section of regular train or as a passenger extra.
- 24. OSCILLATING EMERGENCY RED HEADLIGHT will be immediately displayed by day or night when a train is disabled or stopped suddenly by an emergency application of air brakes or when engineer and conductor find it necessary to stop train due to some defect which might cause accident, overrunning clearance point at meeting and waiting points, end of double track or junction.

Engineer of an approaching train observing display of emergency red headlight must stop before passing and be governed by conditions existing. If operating on adjacent track, ascertain and if safe for passage, then proceed at restricted speed until train is passed.

OSCILLATING EMERGENCY RED REAR END LIGHT is of two types—Automatic Control-Portable Manual Control—and except as otherwise provided, must be displayed by day or night each time train stops or is running at speed less than 18 MPH. Automatic Control type automatically functions in this manner. However, when train running at speed above 18 MPH and moving under circumstances in which it might be overtaken by another train or engine and during foggy and stormy weather, light may be operated manually with emergency switch and employes to afford other protection prescribed by rule.

THE USE OF EMERGENCY RED HEADLIGHT AND REAR END LIGHT DOES NOT IN ANY WAY RELIEVE ENGINE-MEN AND TRAINMEN FROM RESPONSIBILITY OF COM-PLYING WITH RULES 99 AND 102.

Emergency red rear end light must be extinguished under the following conditions:

When standing at initial and final terminal of run.

When train is being switched from rear.

When train is in the clear on siding.

When operating in double track, or two or more main track territory, where another train is approaching from the rear on an adjacent main track, but not until it is known such train is not on same track.

Portable light must be removed before coupling to rear of such car.

Oscillating white light on engines will be displayed in addition to standard headlight governed by Rules 17 and 17(B). In case of headlight failure it can be used as emergency headlight or as a focus light by push button control if desired.

Enginemen and trainmen on trains and engines equipped with oscillating emergency red lights must familiarize themselves with the operation of the lights.

- 25. Rule D-97 is in effect on this division.
- 26. 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 board, and stakes, then car must not be moved from industry. The fact must be promptly reported by wire to the Superintendent.
- 27. Whistle Signals for Routes at Junctions and Interlockings:

Routes	Whistles
Main Track	2 short, 1 long
Diverging route	2 long
Siding	4 short
Against current of traffic	l long, 1 short

28. Rule 19, Figures 2 to 9 inclusive, and Rule 19B are supplemented as follows:

When the rear car of a passenger train is equipped with built-in electric markers, or when the rear unit of an engine, moving

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The built-in electric markers, or electric signal lamps used as markers, must not be extinguished until the train has arrived at the final terminal of run, or is in the clear of the main track at the terminal and switch closed.

FIRST SUBDIVISION

(Main Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS. Between Passenger Central Ave. Tower and Boylston 75 MPH Boylston and Foxboro 60 MPH Foxboro and Coon Creek Jct. 79 MPH

2. SPEED RESTRICTIONS.

 Duluth Terminal Bridge to G.N. Rices Point and G.N. connection

 to Seventh Ave. freight house, trains and engines at restricted

 speed not exceeding
 20 MPH

 Bridge 14.2, Boylston
 Passenger 35 MPH

 Freight 10 MPH

Long lead, west end Sandstone Yard..... 15 MPH

3. TRAIN REGISTER EXCEPTIONS.

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

Eastward freight trains will throw off register check at Saunders giving all information called for in train register except arrival and tie up.

CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).

 (a) At Boylston, Brook Park Jct., trains for which these points are initial stations may proceed on authority of clearance under which such trains arrive and at Brook Park Jct. providing the governing signal permits entrance to CTC territory.
 (b) Mesabi Division clearance received by first class trains and

(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. Second class and extra trains will use double track with the current of traffic without train orders or clearance between 25th Street, Superior, and Central Avenue Tower where they will receive train orders or clearance.
- 7. Hinckley, automatic block signal 72.1 governing westward trains, is located on left hand side of main track about 500 feet west of depot.

8. 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.

9. CROSSOVERS ON DOUBLE TRACK.

Facing Point	Trailing Point
Saunders, east crossover	Central Ave.
Boylston	Saunders, at tower.
· · · · · · · · · · · · · · · · · · ·	Boylston

10. SPRING SWITCHES WITH FACING POINT LOCK.

Dedham, east and west siding switch. Nickerson, east and west siding switch. Askov, east and west siding switch. Grasston, east and west siding switch. Cambridge, east and west siding switch. Bethel, east and west siding switch. Normal position is for main track.

11. 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.

12. DRAGGING EQUIPMENT DETECTOR INDICATOR.

Eastward trains on Signal 15.6 between Boylston and Dedham. Westward trains on Signal 61.1 between Askov and Sandstone.

13. MANUAL INTERLOCKINGS.

Central Ave. TowerN. P. Ry. crossing Coon Creek Jct.junction with N. P. Ry.

14. MANUAL INTERLOCKINGS WITH DUAL CONTROL SWITCHES.

Sandstoneeast and west yard switch

15. AUTOMATIC INTERLOCKINGS.

Superior

16. Crossings as herein shown at the following stations are equipped with automatic signals and switch-key-controllers. When engines or cars are standing in circuit but crossing not fouled, signals must be cleared for highway traffic by operating controllers. When crossing is to be fouled, controllers must first be operated to set signals at stop position against highway traffic. Sandstone, State Highway No. 123 crossing, 3350 ft. west of depot.

Henriette, State Aid Road No. 2 crossing just east of depot. Braham, Rush City Road crossing, 1400 ft. east of depot. Bethel, State Aid Road No. 8 crossing, 2000 ft. west of depot.

17. INSTRUCTIONS GOVERNING OPERATION OF TRAINS AND ENGINES WITHIN CENTRALIZED TRAFFIC CON-TROL SYSTEM.

CTC extends between eastward home signal Brook Park Jct. and westward home signal Hinckley Tower.

Hinckley Tower is the control station for the CTC under control of operator under the supervision of train dispatcher, Superior.

Controlled sidings are located at: Brook Park, Hinckley Tower. Brook Park, industry switch east of depot leading from siding is hand operated and equipped with electric lock.

CTC extends between eastward home signals Boylston and westward home signals Saunders.

Saunders Tower is the control station for the CTC under control of operator under supervision of train dispatcher, Superior. There are no call lights at Boylston or Saunders. Trains receiving a stop indication at Boylston or Saunders should immediately contact Saunders Tower by phone or radio.

Main track switches within CTC equipped with electric locks are governed by Rule 283.

18. 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	Passenger	Freight
Boylston and Mirbat	50 MPH	40 MPH
Mirbat and Crookston Yard	. 59 MPH	45 MPH

2. SPEED RESTRICTIONS.

Bridge 29, westward. Bemidji. Erskine. Crookston Yard.

Cass Lake, on all tracks over footwalk crossing located

8 MPH just east of coaling station 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.

TRAIN REGISTER EXCEPTIONS. 3.

Trains originating and terminating at Crookston Yard will register at Crookston Depot.

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

All trains must obtain clearance Form A at Cass Lake.

Mesabi Division clearance received at Crookston will clear train at Crookston Yard.

5. At Bemidji, Soo Line trains will enter and leave Great Northern main track at a hand-operated switch located 2300 feet east of Bemidji Depot.

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.

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

Westward, between MP 87 and MP 86 approximately 3 miles west of Bemidji.

7. 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. Brookston, special signal consisting of horn and yellow light is located north of westward main track just west of coaling station to inform crews of eastward ore trains from Casco and Gunn lines when carmen have completed inspection and train is in condition to proceed.

Carmen will operate horn and light by means of push button located on telegraph pole about 300 feet west of block signal 58.8 in accordance with the following code:

(a) One blast of horn and one flash of yellow light indicates train will not proceed until further instructed.

(b) Two blasts of horn and two flashes of yellow light indicate train from Gunn Line may proceed.

(c) Three blasts of horn and three flashes of yellow light indicate train from Casco Line may proceed.

- 9. Swan River, train orders and messages delivered by hoop to eastward trains will be delivered from the south or right hand side.
- 10. Philbin, siding must be used by eastward trains, unless otherwise authorized by train order.
- 11. Crossings as herein shown at the following stations are equipped with automatic signals and switch-key-controllers. When engines or cars are standing in circuit but crossing not fouled, signals must be cleared for highway traffic by operating controllers. When crossing is to be fouled, controllers must first be operated to set signals at stop position against highway traffic.

Carlton, 3rd Street, 1500 ft. east of Carlton interlocking. Cloquet, Market Street, west of depot; Arch Street, west of depot; Northwest Paper Mill crossing, one mile east of depot. Switch-key-controller on signal case, Arch Street, will clear Griswold Signals at Broadway and Arch Street, as well as crossing gates at Market Street.

Swan River, Highway No. 65, one-half mile west of depot. Grand Rapids, Pokegama Avenue, first crossing east of depot; First Avenue West, first crossing west of depot. Controller for First Avenue West crossing located on depot.

Cohasset, State Highway No. 6 crossing, about 800 ft. west of depot.

Minnesota Power & Light Spur, State Highway No. 6, west of Cohasset.

Bemidji, Highway No. 71 crossing, about 1500 ft. east of Bemidji Interlocking crossing.

Bagley, Highway No. 92 crossing, just east of depot.

Lengby, Till Avenue crossing, just west of depot. Industry track does not include automatic protection and all impending train and engine movements over this crossing must be flagged by trainman on the ground.

McIntosh, Cleveland Avenue crossing, about 200 ft. east of depot. All train movements made over the southerly industry track by switch crews or train crews shall be preceded by a member of the train or switch crew on the crossing to warn highway traffic of the impending train movement over the crossing.

Dugdale, Highway No. 32 crossing, 275 ft. east of spur switch. Deer River, South Street, just east of depot.

- 12. 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.
- 13. International Refinery, Alford, while switching, do not handle cars over drip pans with brakes set as sparks from brakes create a fire hazard.

Account close clearance on old spur, do not put cars beyond 500 ft. from east derail.

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.

14. CROSSOVERS ON DOUBLE TRACK.

Facing Point State Line, west crossover Carlton, east crossover Cloquet, west crossover Brookston, east crossover Brookston, 1 mile west of Swan River, east crossover

Trailing Point State Line, east crossover Alford Carlton, west crossover Cloquet, east crossover Flint Pit Brookston, west crossover Mirbat Floodwood Swan River, west crossover

15. SPRING SWITCHES WITH FACING POINT LOCK.

Brookston, east switch of crossover between main tracks. Normal position is for main track.

west switch of crossover between main tracks.

Normal position is for crossover. switch leading to Casco Line (6th Subdivision) from westward main track.

Normal position is for main track.

Swan River, end of double track.

Normal position is for eastward main track.

Philbin, east siding switch. Normal position is for main track. west siding switch. Normal position is for siding.

Cass Lake, east yard switch.

Normal position is for main track.

Instructions governing operation of spring switches at Brookston:

Switch, Casco Line to storage track, is a hand operated switch. Normal position is for storage track. Reversing this switch for movement to Second Subdivision causes automatic block signals on both main tracks to indicate stop. Switch must not be lined for Second Subdivision while movement is being made between signals 57.9 and 58.0.

Block signal 58.0 located just west of the Casco line switch, between the Casco line and westward main track, governs eastward trains from Casco Line across westward main track, through the crossover, and the eastward main track.

Block signal 58.0 will display an approach indication within a few seconds after Casco Line—storage track switch is reversed for movement to Second Subdivision provided spring switches are in proper condition for movement to eastward main track and there is no conflicting train movement in the block on eastward or westward main tracks. If there is a conflicting movement approaching on either main track, the approach indication on signal 58.0 will not be displayed until a time interval of approximately two minutes has elapsed.

16. 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.

17. 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.

18. MANUAL INTERLOCKINGS.

State Line Tower	N.	Р.	Ry.	crossing
Carlton	N.	Р.	Ry.	crossing
Erskine	MStP&SS	М.	RŘ.	crossing

19. MANUAL INTERLOCKINGS WITH DUAL CONTROL SWITCHES.

Swan Rivercrossover and junction with 4th Subdivision Gunnjunction with 10th Subdivision

20. AUTOMATIC INTERLOCKINGS.

Crookston Ya	rd, 2.37 miles east of	N. P. Ry. crossing
Bemidii		N. P. Ry. crossing
Bridge 29		gantlet
Philbin	eas	t and west siding switch
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.

If train moving against the current of traffic is stopped by dwarf signal, trainman will operate release located in release box nearest the dwarf signal, and if signal does not indicate proceed when release returns to normal position, trainman may flag train through gantlet making certain that smashboard at opposite end of gantlet is in the reverse position.

Philbin:

Interlockings at the east and west siding spring switches operate automatically for all movements, except westward movements to the siding at the east switch, and eastward movements to the main track at the west switch, which require hand operation of spring switch. Eastward trains on siding take preference over eastward trains on main track approaching east switch, and westward trains on main track take preference over westward trains on siding approaching west switch. For further information see instructions posted in push button boxes, located at eastward home signal at east switch, and at westward home signal at west switch.

21. SWITCH INDICATOR.

Cloquet, Switch Indicators, each consisting of a yellow light unit (normally dark) and a switch-key-controller mounted on an iron mast, located near the east and west yard switch and both ends of crossovers between main tracks at east and west end of the yard, must be operated by a member of the crew, who, together with the engineer, must observe and be governed by their indications before lining switches, fouling main track, or making crossover movement from one main track to the other.

Alford, Switch Indicators, each consisting of a yellow light unit (normally dark) and a switch-key-controller mounted on an iron mast, located at west crossover switch and at the clearance point of the spur switch, must be operated by a member of the crew, who, together with the engineer, must observe and be governed by their indications before lining switches, fouling main track, or making crossover movement from one main track to the other. See further instructions posted on iron masts.

22. CTC extends between westward color-light type interlocking signal 1½ miles west of Schley and eastward color-light type interlocking signal located 1000 feet east of east switch at Cass Lake. Hand throw switches at Soo Jct. and Webster Spur, M.P. 158.5, are electrically locked. Instructions for their operation are located in the lock cases at the switches.

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.

THIRD SUBDIVISION

(Park Rapids Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

		Diesel or Diesel-Electric				
Between Park Rapids Jct.	and Cass		Passenger 35 MPH			

- 3. TRAIN REGISTER EXCEPTIONS.

Register of regular trains at Sauk Centre will cover their arrival at Park Rapids Jct.

All Third Subdivision trains will register at Sauk Centre.

- ៍ 12
 - 4. 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 5. wye.
 - 6. AUTOMATIC INTERLOCKINGS.

Park Rapids Jct., 0.52 miles west ofN. P. Ry. crossing Wadena, 0.23 miles west ofN. P. Ry. crossing

7. Crossings as herein shown at the following stations are equipped with automatic signals and switch-key-controllers. When engines or cars are standing in circuit but crossing not fouled, signals must be cleared for highway traffic by operating controllers. When crossing is to be fouled, controllers must first be operated to set signals at stop position against highway traffic. Park Rapids, Highway No. 34 crossing, 975 ft. west of depot.

FOURTH SUBDIVISION

(Swan River-Virginia Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

Between	Passenger	Freight
Swan River and Emmert	45 MPH	35 MPH
Emmert and Virginia	35 MPH	30 MPH

2. SPEED RESTRICTIONS.

All trains and engines will approach mining spurs at restricted speed.

Swan River, westward. Hibbing. North Mitchell. Emmert Tower.

Virginia, D. W. & P., Virmount Tower. D. W. & P., Crescent Ave.

3. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B). At North Mitchell, Ruby Jct., trains for which these points are initial stations may proceed without a clearance.

4. Double track extends between Kelly Lake and Emmert Tower. Trains or engines moving in this territory must keep to the left unless otherwise provided. Kelly Lake and Emmert Tower without train orders or clearance.

- 5. Between Emmert Tower 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.
- 6. Hibbing, push button controls located on Griswold Signals at First, Third and Fifth Avenues east for manual control of crossing signals. Instructions covering use of push buttons are posted inside of box. Switch-key-controller located on north side of depot controls signals at Third Avenue east for Westward movements. When a train or engine making westward movement on westward main track is stopped between Fifth and Third Avenues east, and will not foul Third Avenue East, crossing signals may be set clear for highway traffic by inserting switch key in controller and turn to right. After signals have been set clear, they may be changed to indicate "Stop" for highway traffic by inserting switch key in controller and turn to left.
- 7. Crossings as herein shown at the following stations are equipped with automatic signals and switch-key-controllers. When engines or cars are standing in circuit but crossing not fouled, signals must be cleared for highway traffic by operating controllers. When crossing is to be fouled, controllers must first be operated to set signals at stop position against highway traffic.

Virginia, 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.

Virginia, Highway No. 169, Enterprise Mine Spur. Douglas Mine Crossing, 1000 ft. east of DM&IR Wilpen Jct.

- 8. 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.
- 9. Susquehanna Shaft, necessary to shove all empties under the head frame, which will not clear a man on top or side of ore car. Crews must stop before shoving under the head frame and brakemen will walk by the shaft to a point where they can give signals in shoving empties onto the tail tracks. When placing empties for shaft loading, fill the north tail track through the crossover first, as an engine will not go over this crossover. Then fill the south tail track. When placing empties for screener loading, fill the south tail track first, then the north tail track as an engine cannot move through the crossover into the south screener tail track.
- 10. Virginia, 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.
- 11. Virginia, trains or engines going beyond "Stop" sign at Columbia Mine must stop and examine clearance between cars under direct loading pocket and runaround track.
- 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. CROSSOVERS ON DOUBLE TRACK.

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

14. SPRING SWITCHES WITHOUT FACING POINT LOCK.

Kelly Lake, west switch transfer cinder pit track, Normal position is for mallet cinder pit track. roundhouse wye tracks. Normal position east switch is for mallet cinder pit track, south switch is for east leg of wye. west switch is for west leg of wye.

- 15. MANUAL INTERLOCKINGS. Hibbing, 0.58 miles west ofD. M. & I. R. Ry. crossing
- 16. MANUAL INTERLOCKINGS WITH DUAL CONTROL SWITCHES. Swon Direr areason and junction with 2nd Subdivision

Swall RiverCrossover and Julichon						
Hibbing, 0.29 miles west of	D. M	Г. &	e I.	R.	Rv.	Jct.
THOULD, U.L. MILLE WOOD OF			· -••		÷.,.	
North Mitchell	.D. M	. K.		R	Rv.	.lct.

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

18. SWITCH INDICATORS.

Kelly Lake, 1.84 miles east of, at Morton Mine Spur, Helly Lake, 2.23 miles east of, at Agnew-Hull Rust Mine Spur, Hibbing, 0.34 miles west of, at DM&IR. Ry. Scrap Iron Spur, Hibbing, 0.31 miles west of, at west switch of G.N. Ry. Industry Track.

Indicator, consisting of a single yellow light unit (normally dark) and a switch-key-controller, mounted on an iron mast located at the clearance point of the turnout, must be operated by a member of the crew who is to line the switch, and who, together with the engineer, must observe and be governed by its indication before fouling the main track or lining the main track switch. See further instructions posted on iron mast.

FIFTH SUBDIVISION

(Princeton Line)

- 1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS. Between Freight Elk River and Milaca Jct. 20 MPH
- 2. SPEED RESTRICTIONS. Between Home Signals of Interlocking at Elk River.... 20 MPH
- CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).
 (a) Mesabi Division clearance received at Elk River will clear train at N. P. Ry. Jct.
 (b) At Milaca Jct., 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 ofN. P. Ry. Jct. Complete instructions for operation of interlocking are located

at "Release" box.

SIXTH SUBDIVISION

(Casco Line)

- 1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

 Between
 Passenger

 Brookston and Kelly Lake
 45 MPH

 Bridge 59.3 and Curve 1.50 miles west of

 Brookston
 15 MPH
- 2. AUTOMATIC INTERLOCKINGS. Riley, 0.59 miles east ofD. M. & I. R. Ry. crossing
- 3. DRAGGING EQUIPMENT DETECTOR INDICATOR. Eastward Trains, on iron mast approximately 6400 feet east of Signal 61.4.
- 4. All eastward trains on Casco Line, before coming out on Second Subdivision at Brookston, will call Dispatcher on telephone and find out location of westward trains.

SEVENTH SUBDIVISION

(Milaca Line)

- 2. SPEED RESTRICTIONS.
 20 MPH

 Bridge 46.3, Mora
 20 MPH

 Bridge 54.2, Quamba
 20 MPH

 Between Home Signals of Interlockings at:
 20 MPH

 Brook Park Jct.
 20 MPH

 East St. Cloud.
 20 MPH
- 3. TRAIN REGISTER EXCEPTIONS.

Milaca, register only for trains originating and terminating.

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

(b) At Milaca Jct., trains for which this point is initial station may proceed on authority of clearance under which such trains arrive.

(c) Trains originating at East St. Cloud may proceed without a clearance.

5. Crossings as herein shown at the following stations are equipped with automatic signals and switch-key-controllers. When engines or cars are standing in circuit but crossing not fouled, signals must be cleared for highway traffic by operating controllers. When crossing is to be fouled, controllers must first be operated to set signals at stop position against highway traffic. Mora, first crossing west of depot; and Highway No. 65, 2066 ft. east of depot. Milaca, first crossing west of depot. East St. Cloud, U.S. Highway No. 10 crossing.

- 6. At St. Cloud, eastward freight trains must know before leaving there that route is clear at N. P. Ry. crossing, East St. Cloud.
- 7. MANUAL INTERLOCKINGS. East St. Cloud

East St. CloudN. P. Ry. crossing

EIGHTH SUBDIVISION

(Allouez Line)

- 2. SPEED RESTRICTIONS. Between Allouez and Saunders, all trains and engines will be governed by Rule 93.
- 3. Extra trains will use double track with current of traffic between Allouez and east end Bridge 1.3, and also single track between east end Bridge 1.3 and Saunders without train orders or clearance where they will receive train orders or clearance.
- 4. Allouez Ore Docks, when doubling two tracks of empty cars, first pull track with the most cars down to clear then double the shorter track to it. When coupling up a track of cars on the dock and there are cars on the outer end, set sufficient hand brakes, not less than two, on outer cars to hold slack before coupling into them.
- 5. Allouez Ore Dock No. 4, engines moving on Tracks 1 and 2 or 3 and 4 must stop and know there is sufficient side clearance before passing each other.

6. SPRING SWITCHES WITHOUT FACING POINT LOCK. Allouez, Roundhouse wye tracks, Normal position west switch is for west leg of wye,

north switch is for east leg of wye, east switch is for north coal chute track.

- 8. Crossing as herein shown at the following location is equipped with automatic signals and switch-key-controller. When engines or cars are standing in circuit but crossing not fouled, signals must be cleared for highway traffic by operating controller. When crossing is to be fouled, controller must first be operated to set signals at stop position against highway traffic. County Trunk A, commonly known as Bardon Avenue Crossing, located 2.25 miles east of Saunders.

NINTH SUBDIVISION

(Chisholm Line)

- 1. SPEED RESTRICTIONS. All trains and engines will approach mining spurs at restricted speed.
- 2. Between Chisholm Jct. and G. N. depot Chisholm, trains and engines will be governed by Rule 93.
- 8. 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. Eastward G. N. trains will secure clearance and orders from Operator at Emmert who must obtain authority from DM&IR. before issuing.

Westward G. N. trains will secure clearance and orders from G. N. Operator at Chisholm who must obtain authority from DM&IR. before issuing.

TENTH SUBDIVISION

(Gunn Line)

1.	MAXIMUM PERMISSIBLE SPEED FOR	TRAINS.	
	Between	Passenger	Freight
	Kelly Lake and Gunn	45 MPH	35 MPH

2. SPEED RESTRICTIONS.

All trains and engines will approach mining spurs at restricted speed.

Between Home Signals of Interlockings at 20 MPH Hill Annex Spur. Majorca Mine Spur.

- 3. 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.
- 4. 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.
- 5. Harrison Mine Spur, Nashwauk, 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.
- 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 501AA 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 513.
- 8. 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.

9. SPRING SWITCHES WITHOUT FACING POINT LOCK. Kelly Lake, west wye switch, Normal position is for 10th Subdivision.

10. SEMI-AUTOMATIC INTERLOCKINGS.

Calumet, 0.60 miles east ofHill Annex Spur Calumet, 0.73 miles east ofMajorca Mine Spur Complete instructions for operation of electric lock and gates at semi-automatic interlockings are located at "Release" boxes.

11. SWITCH INDICATORS.

St. Paul Mine Spur Hawkins Mine Spur O'Brien Mine Spur Patrick Mine Spur Calumet, west old yard switch

Indicators, consisting of a single yellow light unit (normally dark) and a switch-key-controller, mounted on an iron mast located at the clearance point of the turnout, must be operated by a member of the crew who is to line the switch, and who together with the engineer, must observe and be governed by its indication before fouling the main track or lining the main track switch. The west old yard switch at Calumet is equipped with push button control rather than switch-key-control.

See further instructions posted on iron mast at each point.

12. Crossings as herein shown at the following stations are equipped with automatic signals and switch-key-controllers. When engines or cars are standing in circuit but crossing not fouled, signals must be cleared for highway traffic by operating controllers. When crossing is to be fouled, controllers must first be operated to set signals at stop position against highway traffic. Keewatin, St. Paul Mine Spur, 3rd Avenue, Highway No. 169, First Street crossing east of depot. Harrison Mine Spur, Highway No. 169, one mile west of Nashwauk.

13. INSTRUCTIONS GOVERNING OPERATION OF TRAINS AND ENGINES WITHIN CENTRALIZED TRAFFIC CON-TROL SYSTEM.

CTC extends between westward home signal just west of west wye switch Kelly Lake and eastward home signal just east of east siding switch Moore.

Kelly Lake is the control station for the CTC under control of the train dispatcher.

Main track switches within CTC equipped with electric locks are governed by Rule 283.

WATCH INSPECTORS

Yano Bros., 1121 Tower AvenueSuperior,	Wis.
Marcus Co., 728 Tower AvenueSuperior,	Wis.
O. H. Arosin Co., 414 Robert StreetSt. Paul,	Minn.
Oscar P. Gustafson Co., 410 Nicollet AvenueMinneapolis,	Minn.
Pomerleau & Son, 227 East Hennepin AvenueMinneapolis,	Minn.
K. K. ThompsonCass Lake,	Minn.
Barker Jewelry, 217 Third StreetBemidji,	Minn.
Paul E. TeskeHibbing,	Minn.
Geary Jewelry CoHibbing,	Minn.
Randall's Jewelry & Gift StoreGrand Rapids,	Minn.
Weber Jewelry & Music Co.,	Minn

G. N. Ry. Mesapi Liv.

Business Tracks not shown as stations on Time Table								
Name	Location	Car Ca- pacity	Switch Opens	Name		Car Ca- pacity		
Rural Coop. Power Ass'n Spur Second Subdivision International Refineries Lindsay Pit Hartley's Spur Wawina Warba Blackberry Davis Oil Spur Cohasset Mill & Lumber Co. Minn. Power and Light Spur Chippewa Wood Processing Spur.	 2.25 miles east of Coon Creek Jct	7 6 45 70 120 3 11 7 6 4 9 106 16	W E E E E E E E E E E E E E E E E E E E	Burwell Third Subdivision Land O'Lakes Creamery Spur Peters Meat Products Spur Redwood Rendering Co Midland Co-op. Spur Fourth Subdivision Coal Spur Service Station Inc. Spur Oil Track Douglas Shop Spur Wacootah Storage Track Seventh Subdivision R. E. A. Oil Spur Kanabee Hdwe. Co. Spur., Tenth Subdivision	 0.90 miles east of Tilden Jct 7.06 miles west of Benoit 0.58 miles west of Sebeka 0.40 miles west of Long Prairie 1.61 miles west of Long Prairie 1.68 miles west of Long Prairie 2.47 miles east of Buhl 0.90 miles east of Buhl 1.42 miles east of Hibbing 2.18 miles east of Emmert 3.67 miles west of Virginia 0.5 miles east of Milaca 1.0 miles east of Mora 	12 38 19 10 35 5 3 4 18 9 55 3 5	W E & W W E E E E W W E & W W W W	
Airport Spur Benoit Pit	 5.26 miles west of Schley 2.25 miles west of Bemidji 3.61 miles west of Benoit 7.86 miles west of Brookston on eastward track 	19 157	E W W E	Mid-Range Builders Supply. Minn. Power & Light Spur Rvan and Gillis Spur	 1.92 miles west of Kelly Lake. 0.15 miles east of Nashwauk. 1.09 miles east of Nashwauk. 0.93 miles west of Kevin 1.19 miles east of Canisteo 	14 7 15 29 35	E W E W W	

Mine Spurs

Name Location	Switch Opens
Stevenson, Lamberton, Mahoning	- Opens
Concentrate, Warren	w
Mahoning, Smith, N. Uno, Mahon-	"
ing Grp IV, So. Agnew, Carmi 0.72 miles east of Kelly Lake	w
Hull Crusher	Ŵ
Morton II.98 miles east of Kelly Lake	E
No. Agnew	$\overline{\mathbf{w}}$
Scranton, Alworth	W
No. Agnew	E
Webb, Albany, Longyear, Bradford 0.81 miles east of North Mitchell	E
Dunwoody	W
Chataco	W
Elbern	W
Judson, Michael	W
Grant	W
North Shiras	E
Margaret	E
Wanless	E
Kinney, Atkins, Wade	
Wacootan	Ē
Hanna B, Pilot	Ē
Enterprise 0.83 miles west of Virginia Columbia 0.47 miles west of Virginia	Ŵ
Bennett-Russell, Carlz	E
St. Paul	Ē
Sargent Shaft, Sargent Open Pit,	
St. Paul Washer	Е
Chieftan	Ŵ
Mesabi Chief Washer, Aromac,	
Perry, Mississippi	W
O'Brien	w
Hawkins Fines	E
York, Galbraith	W
Hawkins (MacKilican)	E
Harrison	W
Patrick C, Kevin Patrick, Patrick Fines. 2.26 miles west of Nashwauk	W
Majorca, Draper Annex, Barbara 0.73 miles east of Calumet	W
Hill Annex Washer	
Hill Annex Fines, Hill Trumbull Washer. 0.69 miles east of Calumet.	Ē
Hill Spur 0.37 miles west of Calumet Rhude Media Spur 0.57 miles east of Holman Jct	Ē
Arcturas	w w
Holman	Ŵ
Holman Lean Ore	Ë
Hunner 0.83 miles west of Bovey	Ē
Hunner	E & W
West Hill	Ē
Jessie	Ŵ
Greenway	Ŵ
Greenway	W

SPEED TABLE

Time I	Per Mile	Miles	Time		Miles
Min.	Sec. P	er Hour	Min		Per Hour
	467890128456789012345678910	$\begin{array}{c} 78.8\\ 76.6\\ 75.0\\ 73.5\\ 72.0\\ 70.6\\ 69.2\\ 67.9\\ 65.5\\ 64.3\\ 63.2\\ 62.1\\ 61.0\\ 60.0\\ 59.0\\ 58.1\\ 56.8\\ 55.4\\ 54.5\\ 55.4\\ 54.5\\ 58.7\\ 52.9\\ 52.2\\ 51.4 \end{array}$	$1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	12 14 16 18 20 22 24 26 28 80 88 86 89 42 45 50 55 10 20 80 40 	50.0 48.6 47.4 46.2 45.0 48.9 42.9 40.9 40.0 88.7 87.5 86.4 85.8 84.8 82.7 81.8 80.0 27.7 25.7 24.0 22.5 20.0 17.1 15.0 12.0 10.0 8.6 7.5 6.7 6.0

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