

# **NORTHERN PACIFIC RAILWAY COMPANY.**

**— AND —**  
**MINNEAPOLIS & ST. LOUIS RAILROAD**

## **JOINT TIME 180 TERMINAL TABLE**

**In Effect at 12:01 A. M. Central or 90th Meridian Time.**

**SUNDAY, SEPTEMBER 18, 1927.**

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

**T. H. LANTRY,**  
General Manager.

**W. H. STRACHAN,**  
General Superintendent.

**P. H. McCAULEY,**  
General Superintendent of Transportation.

**G. H. JACOBUS,**  
Superintendent.

**E. E. NASH,**  
Chief Operating Officer, M. & St. L. R. R.

**R. E. RYAN,**  
Superintendent, M. & St. L. R. R.

SPECIAL INSTRUCTIONS, PAGES 5, 6, 7 AND 8.

## EASTWARD

FIRST SUB-DIVISION  
(JOINT TERMINAL)

		TIME TABLE No. 180.				FIRST CLASS										SECOND CLASS						THIRD CLASS	
		September 18, 1927.				102	62	76	64	114	60	68	66			152	154	158	160	628	626		722
		Succeeding No. 179.				Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger			Mixed	Mixed	Mixed	Mixed	Freight	C. M. & St. P. Freight		Way Freight
		STATIONS				Except Sunday	Except Sunday	Sunday Only	Daily	Except Sat. & Sun.	Daily	Except Sunday	Daily			Except Sunday	Except Sunday	Except Sunday	Except Sunday	Daily	Daily		Except Sunday
T	24.0	.....STILLWATER.....	Yard	LG 12												A 6.05AM	A 10.05AM	A 3.10PM	A 6.57PM				
	20.0	.....SUMMIT.....	25	LG 9												f 6.51	f 9.51	f 2.56	f 6.43				
	17.8	.....DULUTH JCT.....	8 Car Spur	LG 7												f 6.44	f 9.44	f 2.50	f 6.37				
	14.0	.....MAHTOMEDI.....	15	LG 4						A 6.00PM						s 6.34	s 9.34	s 2.42	s 6.29				
	14.4	.....ECHO.....		LG 3 1/2						f 5.58						6.32	f 9.32	f 2.40	f 6.27				
	14.0	.....PENINSULA.....		LG 3						s 5.57						6.31	f 9.31	f 2.39	f 6.26				
	13.7	.....CLUB HOUSE.....		LG 2 1/2						s 5.56						6.30	f 9.30	f 2.38	f 6.25				
	13.3	.....DELLWOOD.....	4 Car Spur	LG 3						s 5.54						6.28	f 9.28	f 2.36	f 6.23				
	12.6	.....WHITE BEAR BEACH.....		LG 1						f 5.52						6.25	f 9.25	f 2.34	f 6.21				
	11.9	.....TENTH STREET.....		LG 1/2						f 5.50						6.22	f 9.22	f 2.32	f 6.19				
WT	11.3	WB.....WHITE BEAR.....DN	Yard	L 141	A 8.30AM	A 9.20AM	A 10.00AM	A 2.23PM	s 5.48	A 6.03PM	A 6.17PM	A 12.30PM				L 6.20AM	L 9.20AM	L 2.30PM	L 6.17PM	A 8.40PM	A 8.50PM		A 7.50AM
X	10.7	.....LAKE SHORE.....		L 141 1/2	s 8.28	f 9.18	s 9.58	s 5.40		s 6.15										8.37	8.46		7.48
YX	9.7	.....M. & D. JUNCTION.....	Yard	L 142			f 9.55	f 5.38		f 6.13										8.33	8.42		7.45
	5.0	Soo Line Cross'g—Track Conn. GLOSTER.....DN	Yard	L 147	s 8.14	s 9.04	s 9.44	s 2.13	s 5.29	5.53	s 6.02	s 12.14								L 8.15PM	8.22		L 7.30AM

BETWEEN MISSISSIPPI STREET AND GLOSTER TRAINS USING SOO LINE TRACK WILL BE GOVERNED BY SOO LINE TIME TABLE AND RULES.

WCT	.....	Soo Line Connection. MY. MISSISSIPPI ST. Y'D., DN Interlocked, east end.	Yard	S 142																			L 8.00PM		L 7.15AM
	5.0	Soo Line Cross'g—Track Conn. GLOSTER.....DN	Yard	L 147	s 8.14	s 9.04	s 9.44	s 2.13	s 5.29	5.53	s 6.02	s 12.14											8.22		
	2.9	.....CLAYMONT.....	Yard	L 149																					
	2.5	.....EAST SEVENTH ST. Forest Street—Interlocked	Yard	L 150	s 8.08	s 8.58	s 9.38	2.08	s 5.23	5.48	s 5.57	12.07													
	0.5	.....THIRD STREET JCT. C. S. & Q. R. R. Crossing	Yard	L 151	8.02	8.52	9.32	2.02	5.17	5.42	5.52	12.01AM										L 8.00PM			
WT	0.0	U.....SAINT PAUL.....DN		S 142	L 8.00AM	L 8.50AM	L 9.30AM	L 2.00PM	L 5.15PM	L 5.40PM	L 5.50PM	L 11.59PM										Via Soo Line			Via Soo Line

BETWEEN ST. PAUL AND MINNEAPOLIS TRAINS USING GREAT NORTHERN TRACKS WILL BE GOVERNED BY GREAT NORTHERN TIME TABLE AND RULES.

	.....	S.....MINNEAPOLIS.....DN			L 8.10AM		L 1.30PM		L 5.10PM		L 11.20PM														
					Except Sunday	Except Sunday	Sunday Only	Daily	Except Sat. & Sun.	Daily	Except Sunday	Daily							Except Sunday	Except Sunday	Except Sunday	Except Sunday	Daily	Daily	Except Sunday
		Time Over Sub-Division			.30	.30	.30	.23	.39	.23	.27	.31							.45	.45	.40	.40	.25	.50	.20
		Average Speed Per Hour.			22.6	22.6	22.6	29.4	22.9	29.4	25.1	31.8							16.9	16.9	19.0	19.0	15.1	12.9	18.9

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

Yard Limit Boards—White Bear and Stillwater.

DOUBLE TRACK AND AUTOMATIC BLOCK BETWEEN THIRD STREET JCT. AND WHITE BEAR.

Passengers from Minneapolis desiring to make connection at St. Paul with train No. 68 will be handled on train No. 60.

Conductors of all trains using Soo Line tracks between Gloster and Trout Brook Junction will register in train register book at telegraph office Gloster before departure.

Passenger extras and light road engines may run ahead of delayed first-class trains without orders.

Conductors of trains and Enginemen of light engines in and out of Stillwater will make out register ticket Form 608, covering their arrival and departure at Stillwater and will give them to the operator at White Bear.

At Stillwater Passenger Station, close clearance exists at roof of train shed.

Between Summit and Stillwater and other grades where in the judgment of Enginemen retainers are necessary in accordance with rules, they must be used.

At White Bear, normal position of double track switch is for westward trains.

# SECOND SUB-DIVISION (JOINT TERMINAL)

# WESTWARD

FIRST CLASS														Distance from St. Paul.	TIME TABLE No. 180. September 18, 1927. Succeeding No. 179.	Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits.	FIRST CLASS.					SECOND CLASS	
201	203	303	305	307	309	315	207	317	321	319	211	209							165	167			
M. & St. L. 2	M. & St. L. 13	Soo Chgo. Div. 2	Soo 84	Soo 107	Soo 62	Soo 109	M. & St. L. 6	Soo 8	Soo Chgo. Div. 4	Soo 105	M. & St. L. 15	M. & St. L. 4							M. & St. L. 98	M. & St. L. 92			
Passenger Ex. Sunday	Passenger Ex. Sunday	Passenger Daily	Passenger Ex. Sunday	Passenger Daily	Passenger Daily	Passenger Daily	Passenger Daily	Passenger Daily	Passenger Daily	Passenger Daily	Passenger Daily	Passenger Daily	Passenger Daily							Freight Daily	Freight Daily		
L 7.30AM	L 8.15AM	L 8.25AM	L 10.45AM		L 1.50PM		L 6.05PM	L 6.50PM	L 7.45PM		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
7.32	8.17	8.27	10.47		1.52		6.07	6.52	7.48		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6					
7.35	8.20	A 8.32AM	10.51		1.56		6.10	6.56	A 7.54PM		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8					
7.38	8.23		A 10.55AM		A 2.00PM		6.13	A 7.00PM			2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9					
7.44	8.29						6.19				5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9					
7.47	8.32						6.22				6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7					
7.48	8.33						6.23				7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3					
7.50	8.35						6.25				7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8					
7.54	8.39						6.29				8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4					
7.56	8.41						6.31				9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9					
7.58	8.43				L 11.50AM		L 5.50PM	6.33		L 8.23PM	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8					
A 8.00AM	A 8.45AM				A 11.54AM		A 5.55PM	A 6.35PM		A 8.26PM	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5					
Except Sunday	Except Sunday	Daily	Except Sunday	Daily	Daily	Daily	Daily	Daily	Daily	Daily	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8					
.80	.80	.07	.10	.04	.10	.05	.30	.10	.09	.03													
24.6	24.6	15.4	17.4	12.0	17.4	9.6	24.6	17.4	12.0	16.0													

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN OPPOSITE DIRECTION.  
DOUBLE TRACK BETWEEN THIRD STREET, ST. PAUL, AND FIRST STREET NORTH, MINNEAPOLIS.

## AUTOMATIC BLOCK FROM SEVENTH ST., ST. PAUL, TO TWELFTH AVE. SE., MINNEAPOLIS.

Enginemen will not be required to consult register except at initial or starting point.

Yard Limits.—First Street North to Twentieth Avenue South.

Between Third Street and Union Depot, trains and engines on double track will be governed by St. Paul Union Depot Rules and Regulations.

At Third Street, St. Paul, crossing with C. B. & Q. Railway is single track.

At Third Street, St. Paul, westward second class and inferior trains may run ahead of delayed first class trains, when given the route by switchtenders.

At Third Street double track switch on East Side line is protected by a derail and Semaphore on Eastward Main track. All trains in either direction will stop at end of double track and proceed only on Switchtender's signal.

At Fourth Street Yard, St. Paul, the supports under Seventh Street Bridge will not clear a man on the side of a car on tracks 6, 8, 9, 10 and 11.

Passenger extras and light road engines may run ahead of delayed first-class trains without orders.

At Mississippi Street tower the Train Order Signal is to govern Soo Line Chicago Division outgoing trains exclusively.

Approaching St. Anthony Park Junction Enginemen will, when necessary, call for route as follows:

Straight Main Line East or West (Line A) ————  
Line A to Line B Westward track ————  
Line A to Eastward track Line B ————  
Line B to Line A via West Wye ————  
Line A to Line B via West Wye ————  
Line B to Line A Eastward ————

In order to prevent cars running out over the derails at the West end of Eustis Street Yard, the hand brakes must in all cases be set with a club on the first six (6) cars from the West end of each track. Yard Foremen will be held responsible for knowing this is done.

At Eustis Street Yard, all trains must call St. Anthony Park Tower on Phone located in old Tower and obtain permission to Cross-over before fouling either the Eastward or Westward Main Line.

At Union all Eastward and Westward trains going to or coming from Great Northern Yard, must call Towerman St. Anthony Park on Phone and obtain permission to Cross-over.

## EASTWARD

**EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN OPPOSITE DIRECTION.  
DOUBLE TRACK BETWEEN THIRD STREET, ST. PAUL, AND FIRST STREET NORTH, MINNEAPOLIS.**

**YARD LIMITS:** First Street North to Twentieth Avenue South.

Enginemen approaching Mississippi Street on Main line will call for route, or if Dwarf Signal route is desired will call for either as indicated below. The Two arm Semaphore located one hundred feet west of the Interlocking Tower, governs routes as follows: Top arm governs movements on Eastward Main Line to Third Street. The bottom arm governs movements over turn-out to Fourth Street yard, via West Side Line, and movements over Cross-over between the Eastward and Westward tracks of East Side Line.

— — Freight Tracks to Seventh Street.  
 — — — Passenger Tracks to Union Depot.  
 — — — Round House.  
 — — — — Coal Dock.

At Mississippi Street and St. Anthony Park Junction diverging inferior class trains will not be required to procure orders on the time of delayed first-class trains moving in the same direction on double track, but when given the route by towerman will be governed accordingly and may proceed, but if detained and are overtaken by such delayed first-class trains, must let them by promptly.

At Park Junction, all Eastward trains filling out or picking up trains at that point, must call Towerman St. Anthony Park on phone and secure line-up of trains on Line A.

THIRD SUB-DIVISION.  
(JOINT TERMINAL)

WESTWARD

FIRST CLASS														Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits.	Distance from Minneapolis.	TIME TABLE No. 180.		FIRST CLASS									
						65	13	9	3	307	61	315	11			63	319	59	September 18, 1927.		7	1					
						N. P. 66	N. P. 13	N. P. 9	N. P. 3	800 107	N. P. 61	800 109	N. P. 11			N. P. 63	800 105	N. P. 59	Succeeding No. 179.		N. P. 7	N. P. 1					
						Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger			Passenger	Passenger	Passenger	Passenger	STATIONS		Passenger	Passenger				
						Daily	Daily	Ex. Sunday	Daily	Daily	Ex. Sunday	Daily	Daily			Daily	Daily	Daily	Daily			Daily	Daily				
						L 7.00AM	L 9.05AM	L 9.25AM	L 10.30AM		L 2.25PM		L 6.50PM			L 7.05PM		L 9.30PM		S. . . . . MINNEAPOLIS. . . . . DN (Great Northern Passenger Station) 0.5		L 11.15PM	L 11.30PM				
BETWEEN GREAT NORTHERN PASSENGER STATION AND FIRST STREET NORTH, MINNEAPOLIS, TRAINS WILL BE GOVERNED BY GREAT NORTHERN TIME TABLE AND RULES.																											
										L 11.54AM			L 5.56PM			L 8.28PM		0.5	GREAT NORTHERN CROS'G 0.3								
						A 7.05AM	9.09	9.29	10.34	11.56	A 2.30PM	5.58	6.54	A 7.10PM	8.30	A 9.35PM	W,O,T.	0.8	. . . N. P. FREIGHT YARD. . . P 0.3		11.19	11.34					
							9.10	9.30	10.35	A 11.58AM		A 6.00PM	6.55		A 8.32PM			1.1	. FIFTEENTH AVE. NORTH. Soo Line Connection 1.2 Interlocked		11.20	11.35					
							9.14	9.34	10.39				6.59				Y	2.3	. . MULBERRY LINE JCT. . . P 1.5		11.24	11.39					
							A 9.20AM	A 9.40AM	A 10.45AM				A 7.05PM				W,C,O, T.	3.8	NJ. . . . . NORTHTOWN. . . . . DN Great Northern Crossing		A 11.30PM	A 11.45PM					
						Daily	Daily	Except Sunday	Daily	Daily	Except Sunday	Daily	Daily	Daily	Daily	Daily					Daily	Daily					
						0.5	.15	.15	.15	.04	0.5	.04	.15	.05	.04	.05			Time over Sub-Division		.15	.15					
						9.6	15.2	15.2	15.2	9.0	9.6	9.0	15.2	9.6	9.0	9.6			Average Speed Per Hour		15.2	15.2					



# THIRD SUB-DIVISION (JOINT TERMINAL)

EASTWARD

FIRST CLASS													Water, Fuel, Seals, Turn Tables, Ways and Yard Limits.	Distance from Northtown.	TIME TABLE No. 180. September 18, 1927. Succeeding No. 179.		FIRST CLASS				
302	304	8	4	62	12	64	60	10	316	2	14	66									
So. 106	So. 110	N. P. 8	N. P. 4	N. P. 62	N. P. 12	N. P. 64	NP 60	N. P. 10	So. 108	N. P. 2	N. P. 14	N. P. 66									
Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Passenger									
Daily	Daily	Daily	Daily	Except Sunday	Daily	Daily	Daily	Except Sunday	Daily	Daily	Daily	Daily									
		A 7.05AM	A 7.10AM	A 7.35AM	A 7.50AM	A 1.00PM	A 4.45PM	A 5.23PM		3.8	S. . . . . MINNEAPOLIS . . . . . DN (Great Northern Passenger Station) 0.5	A 8.23PM			A 9.30PM	A 11.00PM					
BETWEEN GREAT NORTHERN PASSENGER STATION AND FIRST STREET NORTH, MINNEAPOLIS, TRAINS WILL BE GOVERNED BY GREAT NORTHERN TIME TABLE AND RULES.																					
		A 6.25AM	A 6.55AM						A 5.35PM	3.3	GREAT NORTHERN CROSS'G 0.3										
		6.23	6.53	7.00	7.05	L 7.30AM	7.45	L 12.55PM	L 4.40PM	5.18	5.33	WOT	3.0	. . . N. P. FREIGHT YARD . . . P 0.3	8.18	9.25	L 10.55PM				
		L 6.22AM	L 6.52AM	6.59	7.04		7.44			5.17	L 5.31PM		2.7	. . FIFTEENTH AVE. NORTH . . So. Line Connection 1.2 Interlocked	8.17	9.24					
				6.55	7.00		7.40			5.13		Y	1.5	. . . MULBERRY LINE JCT. . . P 1.5	8.13	9.20					
			L 6.50AM	L 6.55AM		L 7.35AM			L 5.08PM		WCO T	0.0		NJ . . . . . NORTH TOWN . . . . . DN Great Northern Crossing	L 8.08PM	L 9.15PM					
		Daily	Daily	Daily	Daily	Except Sunday	Daily	Daily	Daily	Except Sunday	Daily				Daily	Daily	Daily				
		.03	.03	.15	.15	.05	.15	.05	.05	.15	.04			Time over Sub-Division	.15	.15	.05				
		12.0	12.0	15.2	15.2	9.6	15.2	9.6	9.6	15.2	9.0			Average Speed Per Hour	15.2	15.2	9.6				

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN OPPOSITE DIRECTION.  
DOUBLE TRACK BETWEEN NORTH TOWN AND GREAT NORTHERN CROSSING.

Northern Pacific Conductors taking their trains at St. Paul Union Depot will register at Assistant Superintendent's office.

Passenger train flagmen must ride outside on rear platform between St. Paul and Northtown, to be in position to drop off immediately their train stops and protect it. Conductors will see that flagmen comply with this rule.

At Minneapolis Great Northern Passenger Station, when passenger trains are pushed, helper engine will be cut off at the stop board.

Passenger extras and light road engines may run ahead of delayed first-class trains without orders.

Between Northtown and Great Northern Crossing, regular trains will not exceed schedule speed and irregular trains must use not less than twelve (12) minutes.

Between Northtown and Great Northern Crossing Switch, Transfer and light engine movement may be made ahead of delayed first class trains without train orders, but conductors, foremen and enginemen will inform themselves through the yard-master or train dispatcher as to how late first class trains will be and avoid delaying them.

All trains will run at restricted speed between Northtown and Great Northern Crossing, expecting to find yard engines using main tracks.

At Northtown, University Ave. Bridge at east end of yard will not clear a man on side of car.

At The Minneapolis General Electric Co.'s Plant, Marshall Street and 28th Avenue North East, Minneapolis, Northern Pacific power will be permitted on tracks Nos. 1, 2, 3, 4 and 5 only. Under no circumstances will Northern Pacific power be allowed on Trestle Bridges west of Track No. 3.

Engines coupling to passenger trains, and in making coupling between passenger Cars, Engine or Cars must be brought to a full stop not more than thirty (30) or less than ten (10) feet from the train before making coupling.

## ENGINE RESTRICTIONS OVER BRIDGES, JOINT TERMINAL, SAINT PAUL DIVISION.

STILLWATER TO ST. PAUL—Speed will be restricted over Bridge 11, Broadway Street, Stillwater, as follows:

Single or double header engine classes Q, S, S1, S2, S3, S4 and S10 eight (8) miles per hour.

Engines classes T, Q1 and heavier not permitted.

Speed will be restricted over Bridge O-1, Fourth Street, as follows:

Single or double header engine classes A, Q5, Q6, W3, W5, Z, Z1, Z2, Z3 and Z4 eight (8) miles per hour.

C. M. & St. P. Mallet type Engines Class "N" fifteen (15) miles per hour.

SAINT PAUL AND MINNEAPOLIS TERMINALS WEST SIDE LINE—Speed will be restricted over Bridges O-3 and 1, Trout Brook, as follows:

Single or double header engine classes G1, G2, T, Q1, Q2, Q3 and Q4 eight (8) miles per hour.

Engine classes A, W, W1, W2, W3, W4, W5, Z, Z1, Z2, Z3 and Z4 not permitted.

LINE "A"—Speed will be restricted over Bridge 3, Maryland Street, as follows:

Single header engine classes G1, G2, W, W1, W2 and W4 eight (8) miles per hour.

Engine classes A, Q5, Q6, W3, W5, Z, Z1, Z2, Z3 and Z4 may be hauled as dead engines without coal or water, at five (5) miles per hour.

Engine classes G1, G2, T and heavier power will not be permitted over the following tracks in the Minneapolis Terminals:

Gould Elevator Tracks,  
Carpenter & Lamb Tracks,  
Minneapolis General Electric Co. Tracks,  
Bousfield Wooden Ware Co. Tracks,  
Glueck Brewing Co. Tracks,  
Ramsey Street Tracks.

EAST MINNEAPOLIS TO WHITE BEAR—Speed will be restricted over Bridge 8, as follows:

Single and double header engine classes G1, G2, W, W1, W2 and W4 ten (10) miles per hour.

Engine classes T and lighter fifteen (15) miles per hour.

Single or double header engine classes A, Q5, Q6, W3, W5, Z, Z1, Z2, Z3 and Z4 not permitted.

## LIMIT OF LOAD—MEASUREMENT

### HEIGHT ABOVE TOP OF RAIL

		1' 0" Wide	2' 0" Wide	3' 0" Wide	4' 0" Wide	5' 0" Wide	6' 0" Wide	7' 0" Wide	7' 6" Wide	8' 0" Wide	8' 6" Wide	9' 0" Wide	9' 6" Wide	10' 0" Wide	10' 2" Wide	10' 6" Wide	11' 0" Wide	11' 6" Wide	Max. Height	Max. Width
1st Subdivision . . .	Stillwater to 3rd St. Jct. . . . .	17' 0"	17' 0"	17' 0"	17' 0"	17' 0"	17' 0"	17' 0"	17' 0"	16' 6"	16' 0"	15' 3"	14' 6"	13' 9"	13' 4"	12' 4"	11' 0"	11' 6"	17' 0"	10' 9"
2nd Subdivision . . .	3rd St. St. Paul to 3rd Ave. North, Minneapolis . . . . .	16' 3"	16' 1"	15' 11"	15' 8"	15' 5"	15' 2"	14' 11"	14' 9"	14' 6"	14' 4"	14' 2"	14' 0"	13' 9"	13' 8"	13' 6"	13' 1"	11' 6"	16' 3"	11' 4"
3rd Subdivision . . .	Great Northern Passenger Station to Northtown . . . . .	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	18' 7"	11' 6"
4th Subdivision . . .	M. & D. Jct. to East Mpls. Jct. . . . .	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	19' 3"	11' 6"

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SPECIAL INSTRUCTIONS.

SPEED RESTRICTIONS.

Speed of any passenger train handling gas-electric unit being towed in a train must be restricted to forty-five (45) miles per hour.  
Class W, W-1, W-2 and W-4 Engines will not exceed forty (40) miles per hour and Class W-3 and W-5 Engines will not exceed thirty-five (35) miles per hour at any time.  
Through Cross-overs, turn-outs and gauntlets, fifteen (15) miles per hour.  
Road Engines backing up will not exceed twenty (20) miles per hour; and Switch Engines moving over main track, running ahead, or backing up will not exceed fifteen (15) miles per hour.  
At Stillwater, Eastward trains will reduce speed to fifteen (15) miles per hour between Yard Limit board and Stillwater Station.  
Between White Bear and Mahtomedi regular trains backing up will use full schedule time. Irregular trains will use not less than fifteen (15) minutes.  
Between White Bear and Peninsula Class T Engines must not exceed ten (10) miles per hour.  
At White Bear speed of trains between White Bear and Lake Shore stations, must not exceed twelve (12) miles per hour.  
Between Gloster and Trout Brook Jet., over Soo Line tracks, Class W-3 Engines must not exceed twenty-five (25) miles per hour.  
From Claymont Yard to Third Street Junction, westward freight trains must use fifteen (15) minutes.  
At St. Paul speed of passenger trains from East Seventh Street to Third Street Junction must not exceed that shown on time table.  
At St. Paul through Seventh Street tunnel and between tunnel and Third Street Junction, freight trains must not exceed eight (8) miles per hour.  
Through interlocking plants speed will be limited to thirty (30) miles per hour. This however does not effect any previous ruling at plants where speed is limited to less than thirty (30) miles.  
At Mississippi Street Interlocking Plant, St. Paul. All trains will approach "Home Signal" under control, prepared to Stop and must not exceed Twelve (12) miles per hour through the Plant.  
Passing La Fayette Avenue on west side line leading to and from Seventh Street, speed must not exceed eight (8) miles per hour.  
Between Twenty-third (23d) Ave. S. E. and Twentieth (20th) Ave. South Minneapolis, speed of trains must not exceed Twenty-five (25) miles per hour.  
On Minneapolis Branch Class T Engines must not exceed twenty (20) miles and Class W fifteen (15) miles per hour at any point.

TRAIN RULES.

When conditions will permit, Enginemen on freight trains will receive proceed signal from rear of train before passing any station.  
In case of accident or defective track on the Main Line between switches, when necessary to utilize the side track for main line, the following instructions will govern: In addition to setting and locking switches for the side track and covering the same by train order, to fully protect approaching trains as prescribed by Transportation Rules 99 and 1728, until movement over main line is resumed, conductors finding it necessary to leave switches set for siding, must fully protect approaching trains until relieved by track men, or other employes competent and equipped to do so.

STANDARD TIME CLOCKS

St. Paul, Assistant Superintendent's Office.  
Mississippi Street, Foreman's Office, Round House, and Yard Office.  
Northtown, Telegraph Office.  
White Bear, Telegraph Office.  
Minneapolis, Dispatcher's Office.

WATCH INSPECTORS

St. Paul—Haman & Company.  
" —A. Lindahl, 910 Payne Ave.  
Minneapolis—Barker Jewelry Co., 1311 Washington Ave., North.  
" —Samuel H. Lindquist, 4171 Washington Ave., North.  
" —W. B. Dahl, Central and Lowry Avenues N. E.  
" —Munns & Pomerleau, 221 East Hennepin Ave.  
Stillwater—August Gfrerer.

PUSHER DISTRICTS.

East Minneapolis and a point 2½ miles toward White Bear.  
Stillwater and 2 miles west.

CLEARANCE EXCEPTIONS

Eastward trains will not require Clearance Card at Northtown if train order signal is in proceed position.  
At Gloster, trains running through between Third Street Junction and White Bear in either direction will not require Clearance if train order signal is in proceed position, except that trains which leave St. Paul without Clearance Card must obtain Clearance Card at Gloster.  
Trains may leave Stillwater, Mahtomedi, Seventh Street, Mississippi Street Yard, Soo Line Junction, Sixth Avenue South, First Street North, N. P. Freight Yard and Fifteenth Avenue North without Clearance Cards.  
Trains whose runs terminate at N. P. Freight Yard, Minneapolis, may leave Minneapolis G. N. Passenger Station without Clearance Card.  
Extra trains and Yard Engines moving with the current of traffic may run via Line "A" or Line "B" between Northtown and Third Street or Seventh Street, St. Paul, or between points intermediate and may leave Claymont and East Seventh Street without orders or Clearance Card.

DERAILING SWITCHES.

Stillwater, West End of Old Prison Track, inside of Gate.  
Summit, East End of Siding.  
Duluth Junction, North End of Spur.  
White Bear, West End of White Bear Lumber Co.'s Spur.  
Claymont, West End of Sidings 1, 2, 3 and 4.  
East Seventh Street, West End of Team Track and West End of Omaha Transfer Track.  
St. Paul, East Side line, Eastward track near Fourth Street Bridge.  
Paper-Calmenson Spur, Sixth Street, East End.  
Mississippi Street, St. Paul, Foot of out bound emergency track connecting with the Coal Storage Spur.  
West End of Oil Transfer Track.  
West End of Coal Dock Hopper Track.  
West End of Bunker Hill Track.  
Rice Street Spur, East End.  
Lexington Ave. Spur, East End.  
Como, West End of Siding.  
Snelling Avenue, Minnesota Bi-Product Co.'s Yard, West End.  
Snelling Avenue Team Track, West End.  
Bayless Avenue Spur, West End.  
Eustis Street Yard, Tracks 1, 2 and lead at West End, Track 1 and lead at East End.  
Brown Sheet Metal track, north end.  
Prospect Park, East End Peteler's Siding.  
South East Minneapolis, West End of Gas Traction Foundry Co.'s Track.  
Fifteenth Avenue, S. E., College of Mines Spur, East End.  
Minneapolis Lower Yard, East End of Transfer Track.  
North Minneapolis. West End of Omaha Transfer track. West End of Diamond Boiler works track, near 23d Avenue.  
Minneapolis, East End of North West Yard.  
Northtown, East End Ice House track.  
Little Canada, West End of Siding.  
Rose, East and West End of Siding.  
East Minneapolis, North End of W. S. Nott Track.  
Derailers must be kept in derailing position when not in use.

BULLETIN STATIONS.

St. Paul, Assistant Superintendent's Office.  
Fourth Street, Yard Office.  
Mississippi Street, Foreman's Office, Round House and Yard Office.  
White Bear, Telegraph Office.  
Northtown, Telegraph and Foreman's Office, Round House.  
Minneapolis, Lower Yard Office.  
East Minneapolis, Yard Office.

REGISTERING STATIONS.

St. Paul, Telegraph Office, Union Depot.  
St. Paul, Fourth Street Yard Office, for M. & St. L. Freight trains.  
Mississippi Street Yard Office, for trains originating or terminating there.  
Gloster.  
White Bear.  
Mahtomedi, Register Box, attached to north side of station.  
Stillwater.  
Northtown.  
Minneapolis, Great Northern Passenger Station.  
Minneapolis, Freight Yard, for First Class trains and Passenger extras originating or terminating there.  
East Minneapolis, for Fourth Sub-division trains.

REGISTER EXCEPTIONS.

At Northtown, First Class trains and Passenger extras will register by Card Form (608).  
At White Bear, trains Nos. 59 and 60 will register by Card Form (608) and will be handed a Clearance by Operator. No. 60 will also be given a Check of the Register on Form (602) by Operator.  
At White Bear, Westward Second Class trains and extras from the Lake Superior Division will register by Card Form (608) and will be given Check of Register on Form (602) and Clearance by Operator.  
At Gloster, trains running through between Third Street Junction and White Bear in either direction will Register by Card Form (608).

COMMERCIAL SPURS.

First Sub-Division.

Distance from White Bear:

Peoples Coal and Ice Company Spur

0.8 Miles

AUTHORIZED SURGEONS.

Location of Stretchers (S)		Telephone Number	
		Office	Residence
Dr. A. W. Ide, Chief Surgeon	St. Paul	Nestor 2866	Dale 9018
Dr. M. A. Shillington,		Nestor 2866	Midway 2446
Dr. H. G. Collicie,	Associate Surgeons, N. P. B. A. Hospital, St. Paul (S)	Nestor 2866	Nestor 2866
Dr. B. I. Derauf,		Nestor 2866	Nestor 3837
Dr. H. Edstrom,			
Dr. F. R. Gratzek,			
Dr. J. W. Jesion	N. P. General Office Bldg., St. Paul	Cedar 2340	Dale 7019
Dr. R. R. Cranmer	Minneapolis	Geneva 5441	Cherry 3637
Dr. I. C. McDonald	Minneapolis	Geneva 5066	Dykewater 1262
Dr. W. R. Humphrey	Stillwater (S)	33	167
Dr. J. H. McClanahan	White Bear (S)	217J1	217J
Dr. T. S. McClanahan	White Bear	217J1	217J3

SPECIALISTS.

Dr. L. A. Nelson, Oculist...734 Lowry Bldg., St. Paul.... Cedar 2846  
Dr. A. C. Heath,  
Nose & Throat.....339 Lowry Bldg., St. Paul.... Cedar 4871  
Dr. H. S. Clark, Oculist...607 La Salle Bldg., Minneapolis Geneva 6203  
St. Paul, Fourth Street, Yard Office (S)  
St. Paul, Mississippi Street, Round House (S)  
St. Paul, Mississippi Street, Car Foreman's Office (S)  
St. Paul, Mississippi Street, Yard Office (S)  
St. Paul, Como Shops (S)  
Northtown, Round House (S)  
Northtown, Transfer Office (S)  
Northtown, Tool Car No. 4 Steam Derrick (S)  
East Minneapolis, Yard Office (S)  
Minneapolis, Lower Yard, Car Foreman's Office (S)

NOTE.

Surgeons will attend, when called upon officially, to all cases of accident occurring to employes or passengers. In cases of sickness it is the intention to limit medical service to the locality or town where a surgeon resides, unless some urgent necessity exists, for which distinct official authority must be had in accordance with established regulations.

Railway Officials are required to call on the nearest authorized surgeons whenever practicable, when surgical or medical services are needed. When such are accessible, the Association will not be responsible for bills for medical services rendered by any other physician. In the event of a sudden emergency, arising from accident, if necessary, proper surgical aid should be procured until the arrival of a regularly appointed surgeon, when the case should be placed in his charge, and in no case should the service of any but an authorized company surgeon be continued at the expense of the Railway Company or of the Association after such surgeon is able to assume charge of the case.

Boarding and Nursing are furnished only at Northern Pacific hospitals. The Northern Pacific Beneficial Association will not be responsible for bills incurred elsewhere unless specially authorized or approved by the Chief Surgeon, and then only in critical cases of injury or illness occurring in the discharge of duty.



MOUNTAIN OPERATION BETWEEN CLAYMONT AND THIRD STREET JUNCTION, ST. PAUL

PER TRANSPORTATION RULE No. 1003 AND AIR BRAKE INSTRUCTION BOOK.

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1. At Claymont, Westward Freight Trains will stop engine just East of Crossover so opposing trains may use the crossover.

2. Rear Brakeman will protect rear of train.

3. Engineman will apply brakes making a continuous service reduction of 20 pounds from brake pipe pressure. If application for stop is made from 70 pounds brake pipe pressure he will add sufficient as stop is being completed to make a total reduction of 20 pounds; on completion he will give one blast of the whistle as advice to trainmen that brakes are fully applied.

4. Conductor will then start from caboose and head brakeman from engine, inspect all brakes from the ground, noting number of brakes applied and holding, as indicated by cylinder piston rods. Correct piston travel should not be less than six inches and not over nine inches. On meeting the brakeman will advise conductor of number of good brakes in portion of train brakeman inspected, conductor will then determine tons per good brake by dividing total tonnage by number of good brakes in train. It must be understood that no train will be handled down this grade having less than eighty-five (85) per cent operative brakes.

5. On conductor and brakeman meeting, signal will be given to engineman to release, he will answer by two blasts of the whistle, place and leave handle of brake valve in release position and as quickly as possible, charge up train line to eighty-five (85) or ninety (90) pounds pressure before starting.

6. When brakes are released, conductor will go forward and brakeman continue to rear, each turning up all retaining valves on his portion of train. All must be used.

7. Brakeman will return to his regular position and conductor will notify engineman as to the total number of cars and the number of tons per good brake in train, and they will confer and agree as to precautions necessary to control train safely.

8. If tonnage per good brake is found by the test to exceed 50, it should be taken as an indication of possible need of hand brake assistance and trainmen must be on the alert to render such aid if its necessity becomes apparent. The engineer will call for hand brake aid whenever there are indications of his losing control of the train. Except in cases of liability of losing control, no hand brakes will be used while descending the grade. Brakemen will ride on top of train from Claymont to Third Street.

9. Engineman will pull out slow enough so conductor can catch caboose after seeing that brakes are released.

10. Conductor must observe caboose gauge constantly during the descent of hill and promptly render any assistance which pressure shown thereby may indicate as needed.

11. In case of accident, train breaking in two, or pulling out draw bar, hand brakes must be applied on train immediately to prevent train or cars getting away.

Freight trains and transfers will not handle to exceed sixty (60) cars down the grade from Claymont to Third Street Junction.

J. B. McLANE,  
Assistant Superintendent.

L. J. BENNER,  
Trainmaster.

HENRY FLANAGAN,  
Trainmaster.

E. H. BRILEY,  
Chief Dispatcher.

SPECIAL RULES.

GOVERNING M. & ST. L. TRAINS BETWEEN 1st STREET NORTH AND 20th AVENUE SOUTH, MINNEAPOLIS.

All trains, transfers and light engines will register by ticket at 1st Street North.  
Maximum speed limit for passenger trains, 20 miles per hour; for all other trains and light engines, 15 miles per hour.  
Between 1st Street North and 6th Avenue South, and between 18th and 20th Avenues South, maximum speed limit for passenger trains, 15 miles per hour; for all other trains and light engines, 10 miles per hour.  
All trains and engines must move under control between 1st Street North and 20th Avenue South.  
"Under Control" as used herein means being able to stop within the distance track is seen to be clear.  
Unless otherwise ordered train orders are not required between 1st Street North and 20th Avenue South. Engines and trains must use right-hand track and move with the current of traffic. Switch engines may use the double track between these points on the time of all except first class trains, under protection, but be prepared to clear main track without delay to regular trains and transfers; and may use the track UNDER PROTECTION, on the time of first class trains after such trains are five minutes late.  
Second and inferior class and extra trains and switch engines may run ahead of first class trains which are five minutes or more late, when this can be done without delay to first class trains, and may be run ahead of each other, without orders.  
All trains, switch engines and light engines occupying main tracks at any point between 1st Street North and 20th Avenue South must be protected, but this rule will in no manner relieve enginemen of responsibility in case of collision, for failure to observe speed restrictions or for failure to move under control at any point, and in case of collision, responsibility will ordinarily rest with the approaching train.  
Movements over crossovers must be protected in both directions.  
Movements between 1st Street North and First St. South will be governed by automatic block signals; the end of track section protected by automatic block signals is indicated by a sign post reading, "End Block." Lights will govern train movements by day as well as by night; one light only should appear at any one time. A green light indicates track clear, Proceed. A yellow light indicates Caution, that block in advance is occupied, approach next signal at end of block under control. A red light indicates Stop, block not clear,

broken rail, open switch or other obstruction, and train must be brought to a full stop at least 20 feet back of signal and may then proceed under control expecting to find the block obstructed and enginemen will be held responsible in case of accident caused by overtaking a preceding train. When signals are out of order, that is when two lights or more show at the same time, or when a white light is shown, or when no lights show, it will be considered a Stop Signal and trains will proceed accordingly; enginemen will report the signal that is out of order to Superintendent at first available telephone or telegraph office. It must be understood that automatic block signals in no way relieve men in charge of trains, switching transfers and light engines, of protecting whenever and wherever required by these special rules.  
Switches at 1st Street North and at 6th Avenue South will be handled by switch tenders. All trains and engines must approach these switches under control, prepared to stop, and must not proceed until it is known that the track is clear, switches are right, and a proceed signal has been received from the switch tender.  
Switch connecting lead of wheat yard with the eastward main track between 16th and 18th Avenues South, is connected with a semaphore indicating the position of the switch, and all eastward trains must approach this semaphore prepared to stop.  
Engine bell must be kept ringing when engine is moving at all points between 1st Street North and 20th Avenue South.  
"Proceed" hand signals given by watchman stationed at either side of Minneapolis Eastern crossovers only govern that particular location and connecting tracks, and must not be construed as indicating that main track beyond is clear. Cars must not be left on main track without an engine attached unless unavoidable in case of accident, in which event they must be protected by flagmen.  
Between sunset and sunrise and at other times when day signals cannot be clearly seen, a red light must be displayed on the rear of all transfer trains; when such trains are provided with caboose, proper display of markers is required.  
These special rules govern main tracks of the Minneapolis & St. Louis Railroad Company between 1st Street North and 20th Avenue South, Minneapolis, and they supersede all other rules and instructions inconsistent therewith.

R. E. RYAN, Superintendent, M. & St. L. R. R.

