NORTHER PAGIFIC RALWAY GOMPANY.

DULUTH AND SUPERIOR TERMINALS



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

SUNDAY, JUNE 21, 1931.

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 TRANSPORTATION RULES.

W. C. SLOAN, General Manager.

W. H. STRACHAN,
Assistant General Manager

G. H. JACOBUS,
SuperIntendent.

P. H. MCCAULEY,
General SuperIntendent of Transportation.

WESTWARD

FIRST SUB-DIVISION (DULUTH AND SUPERIOR TERMINAL)

				FIRS	T CLASS								Time Table No. 161			FIF	RST CLA	ss	SECOND	CLASS	THIRD	CLASS
55	401	201	305	407	61	51	403	203	405				June 21, 1931			303	57	65	623	627	717	727
N. P. 55	D. M. & N.	D. M. & N.	D. W. & P	D. M. & N	N. P.	N. P. 52	D. M. & N. 12	D. M. & N.	D. M. & N.	el, Soal Limite.	umbere	ness from I. R. Jet.	Succeeding No. 160.	rom	lty	D. W. & P. 19	N. P. 57	N. P. 65	N, P, 623	N. P. 627	N. P. 717	N. P. 727
Motor Car	Passenger	Passenger	Passenge	Passenge	Motor Car	Motor Car	Passenger	Passenger	Passenger	h Tabl	ion N	ande f k I. R.	STATIONS	Distance from Fond du Lac.	Car Capacity of Sidings.	Passenger	Passenger	Passenger	Freight	Freight	Way Freight	Way Freight
Dally	Daliy	Dally	Daily	Daily	Ex. Sun.	Dally	Daily	Dally	Dally	A TA	Stat	D P S	Telegraph Offices and Calls	For	S S	Ex. Sun.	Dally	Daily	Dally	Daily	Ex. Sun.	Mo., Wei
	L 7.55AM			L 11.364	4		ւ 3,30м		L 5.31PM	wcc		0.0	EAST D. M. & N. JCT	15.1								
7.15an	A 8.00an	∟ 8.30as		A 11.40a	M L I.009M	L 2.50PM	A 3.35m	ւ 3.50թա	A 5.35m			0.9	DUDUĽÚTHDN	14.2	Yard		L 7.30pg	L II.30pk	L 5.30 _{PM}	L 8.00PM		
7.18aa		8.33	L 9.04A	4	1.03	A 2.54Ps		3.53		<u>-</u>	ļ	1.9	GARFIELD AVE	. 13.2		.L. 6.51PM	A 7.33PW	11.33	A 5.33PM	8.04		
.,		8.34	9.05		s 1.04		1	3.54		ļ	L 2	2.2	20TH AVE	12.9		6.53		f 11.35		8.05	L 9.15am	L 5.30
		A 8.36AN	9.07		1.07			А 3.56ри			L 02	2.8	WEST D. M. & N. JCT Interlocked	12.3		6.54		11.37		8.07	9.19	5.33
		<u> </u>		-								3.6	SOO LINE CROSSING	11.5		 						
			A 9.14N	K	1.14	•			•			4.4		10.7	ļ <u>.</u>	. д 6.59рм	İ	11.40		8.13	9.26	5.39
				1	s 1.17			ł			L 04	5.1	WUWEST DULUTHDN	10.0				s 11.44		8.16	s 9.30	5.42
					A 1.23PM					WYX	L.5	5.8	WEST DULUTH JCTP	9.3		4		A 11.50PA		A 8.20pm	s 9.34	A 5.45
								ļ	\$ a		.	7.0	D. T. CROSSING	. 8.1								
												8.1	RIVERSIDE	7.0							s 9.49	
										<u> </u>	LB 2	8.5	SPIRIT LAKE	6.6		.]					s 9.51	
									:		LB 3	9.7	Minn. Steel Co. Crossing	5.4		-					s 9.58	
										·	.	10.7	BOAT CLUB	4.4		.[-	·	
									1.	- 	LB 5	12.4	1.7 NEW DULUTHP	2.7							s 10.15	
									-		LB 8	15.1	FOND DU LAC	0.0							a 10.34an	
Daily	Dally	Dally	Dally	Dally	Ex. Sun.	Dally	Dally	Daily	Dally							Ex. Sun.	Daily	Daily	Dally	Dally	Ex. Sun.	Mo., We and Fr
.03	.05	.06	.10	.04	.23	.04	.05	.06	.04	ļ	<u> </u>		Time Over Sub-Division	<u> </u>	<u> </u>	.08	.03	.20	.03	.20	1.19	.15
20.0	10.8	19.0	15.0	13.5	13.3	15.0	10.8	19.0	13.5	į.			Average Speed Per Hour			18.7	20.0	14.7	20.0	14.7	9.8	14.4

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION. DOUBLE TRACK BETWEEN DULUTH AND WEST DULUTH JUNCTION. AUTOMATIC BLOCK SIGNALS FROM WEST D. M. & N. JCT. TO WEST DULUTH JCT.

SPECIAL INSTRUCTIONS PAGE 7.

REGISTER STATIONS: Duluth Union Depot and West Duluth for first class trains and passenger extras. Rice's Point yard office and West Duluth for second and third class trains and extras.

REGISTER EXCEPTIONS:

At West Duluth Nos. 61, 65 and 627 register by ticket Form 608. At West Duluth, Eastward trains register by ticket Form 608 and not require clearance unless train order signal is displayed at caution or stop.

BULLETIN STATIONS: Duluth Union Depot.
Rice's Point yard office and Round House.

TIME CLOCKS:

Duluth Union Depot.
Rice's Point yard office.

YARD LIMITS:

Duluth yard extends from connection with D. M. & N., at Fifth Ave. East, to the easterly end of the St. Louis River bridge, and from Garfield Avenue to the yard limit sign on the Third Sub-Division main track west of West Duluth Junction and to Grassy Point bridge.

BRIDGE RESTRIC-

Duluth to Fond du Lac no restrictions. Great Northern Power Co. track. Speed will be restricted on all bridges for S3, S4 and S10 to eight (8)

miles per hour. Engine classes T, Q1 and heavier will not be permitted.

DERAIL SWITCHES:

When not in use must be kept set in derailing position. Main track 110 feet west of Fond du Lac Depot.

WHISTLE CALLS:

D. M. & N. Jct. Interlocking Plant. Trains will call for routes as follows:
Martin's track to D. M. & N. yard—Three short.
Martin's track to westward main track—Three short and one long.
Martin's track to D. T. main track—Four short.
D. T. main track to Martin's track—Four short.
D. M. & N. Jct. to Martin's track—Four short.
Westward main track to D. M. & N. Jct.—One long and one short.
D. M. & N. Jct. to eastward main track—One long and one short.
Through Westward main track movements—One long.
Through Eastward main track movements—One long.

All westward freight trains between Fifth Avenue West and Garfield Avenue must not exceed a speed of twelve miles per hour through cross-over switches at west end of depot yard near switch shanty and over crossings and switches at Garfield Avenue.

FIRST SUB-DIVISION (DULUTH AND SUPERIOR TERMINAL)

EASTWARD

				FI	RST CLA	SS					Π			Time Table No. 161			FIRST	CLASS	SECONE	CLASS	THIRD	CLASS	
66	304	400	58	202	408	52	62	204	404	402	8.8			June 21, 1931			306	56	626	628	718	728	
N, P.	D. W. & P.	D. M. & N	N. P.	D. M. & N.	D. M. & N.	N. P. 51	N. P. 62	D. M. & N.	D. M. & N	D. M. & N	el, Seal	ımbers.	5 to 1	Succeeding No. 160.	from Lac.	ity	D. W. & P.	N. P. 56	C. M. St. P. & P. 626	N. P. 628	N. P. 718	N. P. 728	
Passenge	r Passenger	Passenger	Passenger	Passenger	Passenger	Motor Car	Motor Car	Passenger	Passenger	Passenge	or Fu	ion M	Distance from D. & I. R. Jot.	STATIONS	Distance f Fond du I	Car Capacity of Sidings.	Passenger	Motor Car	Freight	Freight	Way Freight	Way Freight	
Daily	Ex. Mon.	Daily	Daily	Daily	Dally	Daily	Ex. Sun.	Daily	Daily	Dally	Wat Turr and	Stat	Dig.	Telegraph Offices and Calls	Four	of S	Daily	Dally	Dally	Dally	Ex. Sun.	Tue, Thu. and Sat.	1
		A 8.39A			A 11.50AM	-			A 4.14m	A 5.45PI	WCC		0.0	EAST D. M. & N. JCT.	15.1						•		İ
6.30A	H	ւ 8.35#	A 9.35AH	A II.I5AM	L 11.45AH	A 12.01PM	А 2.10ры	A 3.50ml	L 4.10pm	L 5.40p	TYX	WB71	0.9	DUDULUTHDN	14.2	Yard		A 11.30PM	Ĭ I	A 5.30AH		:	1 .
6.25	A 7.53AM		L 9.32AN	11.12		£ 11.58AM	2.06	3.47			ļ		1.9	GARFIELD AVE.	13.2		д 8.12ры	L [1.27PM		5.20			, .
6.22	7.50			11.11			s 2.05	3.46		1		L 2	2.2		12.9		8.09		д 5.10am	5.15	A 12.22PM	A 2.27pm	· · · · · · · · · · · · · · · · · · ·
6.19	7.49			L 11.09AM			2.02	L 3.44PH	i			L 02	2.8		12.3	•	8.07		5.03	5.08	12.18	2.24	
													3.6	SOO LINE CROSSING	11.5			-					,
6.14	L 7.43AN	-					1.55				<u> </u>		4.4	Interlocked 0.8 P. JCT.	10.7		L 8.02m		4.53	5.02	12.08	2.18	
6.12		İ			.]	-	s 1.52					L 04	5.1	Interlocked 0.7 WUWEST DULUTHDN	0.01		************		4.50	5.00	в 12.04	2.15	
6.03A	×.						L 1.48m				WYX	L5	5.8	P	9.3				և 4.45ա	L 4.55AK	s 12.01pa	L 2.12pw	
والمستحد المراولة المناولة	-					·				İ			7.0	D. T. CROSSING	8.1								
													8.1	RIVERSIDE	7.0						s 11.45am	- 1	
											ļ	LB 2	8.5	SPIRIT LAKE	.6.6						в II.43		- J
					- :		:	-				LB 3	9.7	MORGAN PARK Minn, Steel Co. Crossing	5.4						s 11.35		
											-	-	10.7	I.0 BOAT CLUB	4.4						-	: 21	
					-							LB 5		I.7	2.7		in the second	er er er Lessete kr	-		s 11.18		
						-						LB 8		FOND DU LAC	0.0					v. 1	L 11.00m	politic in	general entre
Daily	Ex. Mon.	Daily	Dally	Daily	Dally	Dally	Ex. Sun.	Daily	Dally	Dally							Daily	Dally	Dally	Dally	Ex. Sun.	Tue. Thu. and Sat.	
,22	.10	.04	.03	.06	.05	.03	.22	.06	.04	.05				Time Over Sub-Division		-	.10	.03	.25	.35	1.22	.15	
11,1	15.0	13.5	20.0	19.0	10.8	20.0	13.3	19.0	13.5	10.8	l	,	1	Average Speed Per Hour	I		15.0	20.0	8.6	8.4	9.4	14.4	

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION EXCEPT NO. 717 IS SUPERIOR TO NO. 718 WEST DULUTH JCT. TO FOND DU LAC.

DOUBLE TRACK BETWEEN DULUTH AND WEST DULUTH JUNCTION.

AUTOMATIC BLOCK SIGNALS FROM WEST D M. & N. JCT. TO WEST DULUTH JCT.

SPECIAL INSTRUCTIONS PAGE 7.

AT DULUTH:

Garfield Avenue, junction switches will be kept set for First Sub-Division.

Rice's Point Yard, trains heading in and using the Dick tracks, Nos. 1 and 2, must not block the crossing at 19th Ave. West.

Fifth Ave. West, main track switch leading into Union Depot for use of D. M. & N. passenger trains will be kept set for Depot track.

Garfield Avenue, all trains come to full stop not less than two hundred (200) feet from junction switch and cross-over used by D. W. & P. Ry. trains and not proceed until track is known to be clear.

At 21st Ave. West, telephone located at cross-over for Eastward freight trains call yard for route when necessary (3 rings)

necessary (3 rings).

AT FOND DU LAC:

Track between Fond du Lac and Power Plant will not be used except by authority of train orders.

AT WEST DULUTH JUNCTION:

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Switch engines will use west leg of wye at West Duluth Junction and the Fond du Lac main track between West Duluth Junction and yard limit board for switch purposes, but will not leave cars on these tracks All trains will look out for switch engines working in these limits. Switch at west end wye will be kept set and locked for First Sub-Division.

				FII	RST CLA	5\$							Time Table No. 161			FIRST	CLASS	SEC	OND CL	ASS
	55	23	33	51	95	19	93	57	89	your.	Ė		June 21, 1931 Succeeding No. 160.			35	65	731	623	625
	N. P. 65	G. N. 23	G. N. 33	N. P. 52	Omaha 304	G. N. 19	Omaha 512	N. P. 57	Omaha 510	Fuel, Scales, ables, Wyes, rd Limits.	umpera	from Ave.	STATIONS	rom ve.	aity.	G. N. 35	N. P. 65	N. P. 732	N. P. 623	C. M. St. P. & P. 625
	Motor Car	Passenger	Passenger	Motor Car	Passenger	Passenger	Passenger	Passenger	Passenge		23	Distance Garffeld A	STATIONS	Distance from Central Ave.	Car Capacity of Sidings.	Passenger	Passenger	Freight	Freight	Freight
	Daily	Dally	Dally	Daily	Daily	Dally	Dally	Daily	Daily	TWest	Station	ODE	Telegraph Offices and Calls	DO Page	20,2	Daily	Daily	Ex. Sun.	Daily	Dally
L	7.18am			L 2.54%				L 7.33PM			ļ 	0.0	GARFIELD AVE.	7.3	-,				L 5.33№	
ı	7.21			2.56				7.35		WC0 TYX	LI	0.8	RICE'S POINT	6.5	Yard			L 12.35AB	5.34	L 8.00pg
	7.23	L 8.32A	L. 8.43#	2.58	L 3.51mu	L 4.07%	L 5.43PM	7.36	L 9.06P	ļ		1.3	BRIDGE SWITCH	6.0	·	L 10.07PM		12.41	5.36	8.05
1	7.26	8.37	8.46	3.01	3.55	4.11	5.46	7.39	9.09			2.2	ELEVATOR STATION	5.1		10.10		12.47	5.39	8.09
L	7.28	8.39	8.48	3.03	А 3.59м	4.14	A 5.49PH	7.41	A 9.12P	<u></u>		2.9	OMAHA CONN.	4.4		10.12		12.55	5.41	8.11
8	7.29	в 8.40	s 8.50	s 3.04		a 4.15		в 7.42.		Х	WB 67	3.2	BYSUPERIOR U. DD	4.1		s 10.15	L 12.06AM			·
١	7.31	8.41	8.51	3.05		4.16		7.44				3.6	BELKNAP STREET 3.7	3.7		10.16	12.10	1.00	5.52	8.20
A	s 7.45AM	As 8.50au	AB 9.00au	As 3.15ms		А 4.24ры		As 7.55pm		WYX	67	7.3	AJCENTRAL AVENUEDN	0.0	Yard	A s 10.25№	As 12.20A	А 1.254ы	As 6.30 _{PM}	а 8.50ры
	Dally	Daily	Dally	Dally	Dally	Dally	Dally	Dally	Daliy							Dally	Dally	Ex. Sun.	Daily	Daily
L	.27	.18	.17	.21	.08	.17	.06	.22	.06	<u> </u>			Time Over Sub-Division			.18	.14	.50	.57	.50
_	16.2	20.0	21.1	20.8	12.0	21,1	16.0	19.9	16.0				Average Speed Per Hour			20.0	17,1	7.8	7.7	7.8

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

DOUBLE TRACK BETWEEN GARFIELD AVENUE AND OMAHA CONNECTION, AND BETWEEN BELKNAP STREET AND CENTRAL AVENUE, EXCEPT OVER MINNESOTA DRAW ON ST. LOUIS RIVER BRIDGE WHICH IS

GOVERNED BY INTERLOCKING SIGNAL.

AUTOMATIC BLOCK SIGNALS BETWEEN CENTRAL AVENUE AND 21ST STREET, SUPERIOR.

SPECIAL INSTRUCTIONS PAGE 7.
REGISTER STATIONS: Superior Union Depot and Central Avenue for first class trains and passenger extras.
Rice's Point and Central Avenue for second class and inferior trains.

BULLETIN STATIONS: Rice's Point yard office. Rice's Point round house.

REGISTER EXCEPTIONS

At Central Avenue Eastward trains register by ticket, Form 608, and will not require clearance unless train order signal is displayed at stop or caution.

DERAIL SWITCHES:

When not in use must be kept set in derailing position. East end N. P. Freight House track, Superior. Main track just east of N. P. Freight House, Superior.

SPEED RESTRICTIONS:

At Superior, all trains and engines will run with restricted speed between west yard limit board, Superior and Omaha connection, including Lake Superior Terminal & Transfer tracks between Belknap Street and Omaha connection expecting to find track occupied, and will not exceed ten (10) miles per hour over switches

at Belknap Street.

Second and inferior class trains will move with great care between Winter and Belknap Streets, Superior Freight yard, expecting to find the main tracks blocked.

All trains using tracks of Lake Superior Terminal & Transfer Railway, between Omaha connection and Belknap Street, will be governed by L. S. T. & T. Ry. time table rules and regulations.

AT CENTRAL AVENUE:

Westward trains and engines have the right to use Eastward main track between west lead from yard and the junction switch leading to terminal Fourth Sub-Division main track without protection, and all eastward trains will approach and pass through this territory with restricted speed expecting to find track occupied.

Garfield Ave., all trains will come to a full stop not less than two hundred (200) feet from junction switch and cross-over used by D. W. & P. trains and not proceed until track is known to be clear.

SECOND SUB-DIVISION (DULUTH AND SUPERIOR TERMINAL)

EA	ST	WA	R	ח

			FIRST	CLASS				the contract of the contract o			Time Table No. 161			FI	RST CLA	ISS	THIRD	CLASS
66	36	94	58	52	96	24	34	sales, yes	į		June 21, 1931			20	90	56	732	€?
N. P. 66	G. N. 36	Omaha 511	N. P. 58	N. P. 51	Omaha 503	G. N. 24	G. N. 34	Fuel, Scales, ables, Wyes, rd Limits.	Number	from Ave.	STATIONS	from	ofty	G. N. 20	Omaha 307	N. P. 56	N. P. 731	
Passenger	Passenger	Passenger	Passenger	Motor Car	Passenger	Passenger	Passenger	1	8	Distance f	JIAIIONS	Distance from Central Ave.	Car Capacity of Sidings.	Passenger	Passenger	Motor Car	Way Freight	
Dally	Dally	Daily	Dally	Dally	Dally	Daily	Dally	F TW	Station	QD	Telegraph Offices and Calls	DO Page	22	Dally	Daily	Daily	Ex. Sun.	
			A 9.32au	A 11.58aa						0.0	GARFIELD AVE.	7.3				A 11.27m		
			9.30	11.54				WC0 TYX	L!	0.8	0.8 RICES POINT	6.5	Yard				A II.15AN	
••.	A 7.53AN	A 8.00AM	9.28	11.52	A 12.13№	A 2.18ma	A 5.53PM	ļ		1.3	0.5 BRIDGE SWITCH	6.0		A 8.23pu	A 8.49m	11.24	11.12	
	7.49	7.55	9.25	11.49	12.09	2.14	5.49	ļ		2.2	ELEVATOR STATION	5.1		8.19	8.45	11.21	11.08	
	7.47	L 7.50AM	9.23	11.46	L 12.05№	2.12	5.47			2.9	OMAHA CONN	4.4		8.16	L 8.41рм	11.19	11.05	
д в 5.40ам	s 7.45		s 9.21	s 11.45		s 2.10	s 5.45	х	WB 67	3.2	BYSUPERIOR U. DD	4.1		в 8.15		s 11.18		
5.38	7.41		9.20	11.44		2.06	5.41	ļ		3.6	BELKNAP STREET	3.7		8.11		11.15	11.02	
. 5.29AN	L 7.28AM		L 9.10am	∟ 11.35au		L 1.58pg	£ 5.33№	WYX	67	7.3	AJCENTRAL AVENUEDN	0.0	Yard	L, 8.03р и		L 11.05pm	L 10.45AN	
Daily	Dally	Dally	Daily	Daily	Daily	Dally	Dally							Dally	Daily	Dally	Ex. Sun.	
.11	.25	.10	.22	.22	.08	.20	.20				Time Over Sub-Division			.20	.08	.22	.30	
22.3	14.4	9.6	19.9	19.9	12,0	18.0	18.0	l			Average Speed Per Hour			18.0	12.0	19.9	13.0	.]

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

DOUBLE TRACK BETWEEN GARFIELD AVENUE AND OMAHA CONNECTION AND BETWEEN BELKNAP STREET AND CENTRAL AVENUE, EXCEPT OVER MINNESOTA DRAW ON ST. LOUIS RIVER BRIDGE WHICH IS

GOVERNED BY INTERLOCKING SIGNAL.

AUTOMATIC BLOCK SIGNALS BETWEEN CENTRAL AVENUE AND 21ST STREET, SUPERIOR.

RULES GOVERNING MOVEMENT OF TRAINS OVER ST. LOUIS RIVER BRIDGE.

LOCATION OF SIGNALS

SPECIAL INSTUCTIONS PAGE 7.

SPECIAL INSTUCTIONS PAGE 7.
Interlocking semaphore signals govern use of tracks between Bridge Switch and Elevator Station.
All semaphore signals are upper quadrant type with following indications:
Top arm, horizontal, red light, stop.
Diagonally upward or yellow light, caution.
Vertical, green light, proceed, clear.
With the exception of the three-arm semaphore located west of Minnesota draw on eastward track, and the two-arm semaphore located just east of Elevator Station on the westward track, a lower arm, half length, is provided, and following indications of this arm will govern:
Diagonally upward or yellow light, proceed with restricted speed expecting a train immediately shead or routes lined up for movement against current of traffic. against current of traffic.

The three-arm semaphore on eastward track west of Minnesota draw indicates position of double track switch, position of draw and route

Top arm, Northern Pacific.

Middle arm, Great Northern.

Bottom arm, C. St. P. M. & O.

SPEED RESTRICTION: At Minnesota and Wisconsin drawbridges twenty (20) miles per hour.

The two-arm semaphore on westward track east of Elevator Station is route indication.

The two-arm semaphore on westward track east of Elevator Station is route indication.

Top arm, straight main line.

Bottom arm, Great Northern freight track.

Derails are located as follows:

At approach to Elevator Station from east and west.

At approach to Minnesota draw from Duluth.

All trains in both directions will come to a full stop before entering onto Wisconsin draw.

All eastward trains will come to a full stop before entering onto Minnesota draw.

If proceed signal is recived at the approach to Minnesota draw from the east, it will not be necessary to stop for such draw, it being protected by derail.

Dwarf signals are of modern, upward quadrant type and govern movements against current of traffic.

Horizontal, red light, stop.

Vertical, green light, eaution

DUL-SUPERIOR TERMINALS DIVISION

THIRD SUB-DIVISION WESTWARD (DULUTH AND SUPERIOR TERMINAL)

EASTWARD

	FIRST CLASS			-1-				Time Table No. 161				FI	RST CLA	SS	
65	309	317	313	311	Scales, Wyes nits.	bers.	ćot.	June 21, 1931 Succeeding No. 160.	90		310	66	318	314	312
N. P. 65	D. S. S. & A. 8	Sao Line 18	Soo Line	Soo Line 61	E 3 12 1	Numbers	Distance from West Duluth Jot.	STATIONS	ee from	Car Capacity of Sidings.	D. S. S. & A. 7	N. P. 66	Soo Line 17	Soo Line 62	Soo Line
Passonger	Passenger	Passenger	Passenger	Passenger	Kp	Station	stan eat]		Distance Superior	0.5 0.5	Passenger	Passenger	Passenger	Passenger	Passenger
Daily	Dally	Daily	Daily	Ex. Sun,	TW B	20	ä₿	Telegraph Offices and Calls	ğğ	ಕ್ಟರ	Dally	Dally	Daily	Daily	Ex. Sun.
∟ II.50ря II.53					WYX	L 5	0.0	WEST DULUTH JCTP	3.6			a 6.03am			
11.55 _{PM}	L 8.17m	i. 6.13nu	L 1.44PM	L 7.14AR			1.3	9.7 Soo Line Conn. DW&PBERWIND JCT			A 5.16AM		A 7.46an	а 5.31 г м	A 7.52ры
							1.8	Interlocked 0.5 GRASSY POINT DRAWBRIDGE Interlocked 1.5	1.8						
2.05#	д 8.27рм	а 6.19ры	A 1.50pm	A 7.224			3.3	L. S. T. & T. RY. JCT	0.3	·	L 5.08M	5.49	L 7.3944	L 5.24PM	L 7.45pg
As 12.06AH	:					WB 67	3.6	SUPERIOR U. DD	0.0			L 5.40am	·		
Daity	Daily	Dally	Dally	Ex. Sun.	 						Dally	Daily	Daily	Dally	Ex. Sun.
.16	.10	.06	.06	.08				Time Over Sub-Division		·	.08	.23	.07	.07	.07
13.5	12.0	20.0	20.0	15.0				Average Speed Per Hour			15.0	9.4	17.1	17.1	17.1

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION. DOUBLE TRACK BETWEEN BERWIND JCT. AND L. S. T. & T. RY. JCT., SUPERIOR.

SPECIAL INSTRUCTIONS, PAGE 7.

REGISTER STATIONS: Superior Union Depot for first class trains and passenger extras.

SPEED RESTRICTIONS: At Grassy Point Bridge twenty (20) miles per hour.

AT GRASSY POINT

A torpedo machine is located just inside of the Home Signal and is operated in connection with derail. The explosion of one torpedo indicates that derail is set in derailing position and train must be brought to a stop immediately to prevent derailment.

RULES GOVERNING THE MOVEMENT OF TRAINS OVER GRASSY POINT DRAW BRIDGE. AT WEST DULUTH

All trains will run with restricted speed around east leg of wye and passing Zenith Furnace plant, looking out for switch engines working on main track.

East leg of wye is terminal Third Sub-Division main track and the switches will be kept set and locked for main track.

WESTWARD

FOURTH SUB-DIVISION (DULUTH AND SUPERIOR TERMINAL)

EASTWARD

THIRD	CLASS	FIRST	CLASS] g.e.			Time Table No. 161			FIRST	CLASS	SECOND	CLASS
	731	1 51 grad from 1 and 1 a		rel, Scales, les, Wyes Limits.	Митрегв.	rena	June 21, 1931 Succeeding No. 160.	from	offy.	52		732	
· . ·	Way Freight		Motor Car	Water, Fuel, Turn Tables, and Yard Lir	Station N	Distance from East End.	STATIONS	Distance from Central Ave.	Car Capacity of Sidings.	Motor Car		Freight	
	Ex. Sun.		Dally	≱មិដ	ž.	ក្តីស្ពី	Telegraph Offices and Calls	ದ್ದರೆ	೧೫	Dally		Ex. Sun.	
** * ** *	L 10.30am		£ 11.25м	WOY X	63 65	0.0	C. St. P. M. & O. Crossing Interlocked 1.8 Track Conn.			As 3.25m	-	A 1.40am	
	A 10.45AN		 Дв[1.35ы	WYX	67	2.9	1.1	1.1 0.0	Yard	L 3.15pg		L 1.25A	
	Ex. Sun.		Dally	 	-					Dally		Ez. Sun.	
	.15		.10				Time Over Sub-Division			.10		.15	
	16.0		24.0				Average Speed Per Hour			24.0		16.0	····

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION. OUBLE TRACK BETWEEN EAST END PASSENGER STATION AND EAST LEG OF WYE AT CENTRAL AVE.

REGISTER STATION: Central Avenue.

AT CENTRAL AVENUE: Switches at west end of double track will be kept set and locked for eastward trains.

Switches at connection of Fourth and Second Terminal Sun-Divisions near depot will be kept set and locked for Second Sub-Division.

Care will be taken by train and enginemen when using east leg of wye, as it is single track and on sharp curve; trains will not exceed twelve (12) miles per hour, and in foggy or stormy weather they will protect by flag.

AT EAST END: Switches at east end of double track, east of passenger station, will be kept set and locked for westward trains from First Sub-Division main track.

The distant semaphore of interlocking signals governing movement of westward trains from First Sub-Division main track, is an automatic signal of upper quadrant type. When horizontal or red light, it indicates track or cross-overs between signal and passenger station in use. When diagonally upward or yellow light, caution. When vertical or green light, proceed.

SPECIAL INSTRUCTIONS.

(Note Changes.)

- 1. Second class and inferior trains may run ahead of delayed first class trains between West Duluth Junction and Duluth, Superior and Rice's Point, West Duluth Junction and Superior, Superior and East End, without orders.
 - 2. All inferior to first class trains may run ahead of each other without orders.
- 3. Clearance Form A will not be required at Rice's Point Yard, Superior Freight Station or Superior Union Depot.
- 4. Extra trains, work extras and switch engines do not require train orders for movement between West Duluth Junction and Duluth, between Central Avenue and Rice's Point, between Central Avenue and East End, nor between West Duluth Jct. and Superior.
- 5. A Brakeman or Flagman must be stationed on the rear car of all trains, at all times, and be provided with proper flagging equipment. In case train is stopped on main track, Flagman must go back immediately with stop signals a sufficient distance to insure full protection to his train. Conductors and switch foremen will be held responsible for the strict observance of this rule.
- 6. To insure personal safety, Telegraphers having train orders or messages to deliver to passing trains, will stand to the right hand side of the train and avoid standing between tracks when possible to do so.
 - 7. All trains must move within yard limits prepared to stop unless the main track is seen or known to be clear.
- 8. The D. T. main track is the northmost track between the Boston Coal Dock crossing and connection with Grassy Point main track. All switches leading from this track, when not in use, will be left lined for same.
- 9. All train crews, switch crews and light engines using D. T. main track from connection of Missabe coal dock with this track to east end of Zenith Furnace Company's lead, on Grassy Point line, will move in both directions under full control, expecting to find the D. T. main track occupied.
- 10. D. T. connection, located at east end of Zenith Furance Company's lead, Grassy Point line, will be considered a railroad crossing. Trains using this connection will make usual stop and make sure that track is clear before proceeding.
 - Bridge Restrictions.

Speed will be restricted over St. Louis Bridge between Duluth and Superior to twenty (20) miles per hour.

12. Great Northern Power Co. Track. Speed will be restricted on all bridges for Engines Class S3, S4 and S10 to eight (8) miles per hour. Engines Classes T, Q1 and heavier will not be permitted.

13. Spring Switches:-

Maximum speed for all facing point and trailing point movements through switch fifteen (15) miles per hour. Trailing movements on the track for which the switch is normally lined may be made at normal speed.

Trains trailing through or stopping on a spring switch must not back up or take slack until points have been thrown by hand.

Flying switches over or through spring switches are prohibited.

When operated by hand, lever must be moved slowly, keeping a steady pressure on the handle until the switch is thrown and the handle is in the notch on the switch stand provided for it. When signal governing block in which spring switch is located is at stop, or where automatic block signals do not govern account trains running against current of traffic, facing point movements must not be made over switch until points have been examined.

Sand must not be used over points of spring switches.

- 14. When necessary to use a side track for main track, in addition to setting and locking switches for the siding and covering the same by train order, a flagman with proper flagging material will be stationed to fully protect approaching trains in the manner called for in Transportation Rules until movement over main track is resumed. When conductors find it necessary to leave switches set for siding they must fully protect approaching trains until relieved by trackmen or other employees fully competent and equipped to do so.
- 15. At West Duluth Jct.—Automatic Power Switch installed at end double track and Spring Switch at East end Wye to Grassy Point Line in connection with Spring Switch be governed by Rule (13), Special Instructions, Page (7) current Time Table. Automatic Power Switch at West Duluth Jct., end of double track, operated automatically by electric switch machine. When necessary to operate Switch by hand first throw lever marked "POWER LEVER," then throw lever marked "HAND-THROW LEVER." Both levers must be returned to normal position and locked after completing movement. Home Signal 146.1, Dwarf Signal 146.3, Home Signal 146.0, Dwarf Signal 146.2, Dwarf Signal 146.4, Signal 145.8 and Home Signal 146.6 are all Interlocking Signals and rules governing Interlocking apply. Trains finding Eastward Signal 146.0 and Westward 146.1 or Dwarf Signal 146.3 at "STOP" must examine end of double track switch, and if not in proper position use hand-throw lever and comply with Interlocking Signal Rules. Normal position of Spring Switch for Grassy Point Line Normal position of Power Switch for Westward trains.

AUTHORIZED SURGEONS:-

Dr. A. L. KYLLO, 5719 Tower Ave., Superior,

Dr. W. H. SCHNÉLL, 28 Columbia Bldg., Superior, Dr. F. C. SARAZIN, 28 Columbia Bldg., Superior,

Dr. G. C. MacRAE, 400 Lyceum Bldg., Duluth, Dr. C. M. SMITH, 400 Lyceum Bldg., Duluth,

Dr. O. E. HEIMARK, 2004 W. Superior St., Duluth, Dr. C. L. HANEY, 2004 W. Superior St., Duluth,

Office Residence Telephone Telephone Broad 1458R1 Broad 161 Broad 65 Broad 532 Broad 65 Broad 192 Melrose 1089 Hemlock 3954W Melrose 1089 Hemlock 1955 Melrose 458 Melrose 1157 Melrose 458 Melrose 579

LOCATION STRETCHERS:— East End Freight Station.

Central Avenue Freight Station. Superior Freight Station. Rices Point Yard Office, Duluth. Dock 6, Duluth. Duluth Union Depot. Tool Car, Duluth.

West Duluth Passenger Station.

WATCH INSPECTORS:-

H. HENDRICKSON, Duluth, 416 West Superior St.

E. E. ESTERLY,, Duluth, 1919 W. Superior St.

W. F. HURST, West Duluth, 301 N. Central Ave.

L. J. HOWATT, Superior, 1313 Tower Ave.

MAXIMUM CLEARANCES.

								LIM	IT OF L	OAD MEA	SUREM	ent.		,			3,000	<u>-</u>	.,,
		Height Above Top of Rail.																	
	1 ft. Wide	2 ft. Wide	3 ft. Wide	4 ft. Wide	5 ft. Wide	6 ft. Wide	7 ft. Wide	7 ft. 6 in. Wide	8 ft. Wide	8 ft. 6 in. Wide	9 ft. Wide	9 ft. 6 in. Wide	10 ft. Wide	10 ft. 2 in. Wide	10 ft. 5 in. Wide	11 ft. Wide	11 ft. 6 in. Wide	Max. Height	Mez. Width
First Sub-division, Duluth to Fond du Lac	20'-3"	20′-3″	20′-3″	20′-3″	20′-3″	20′-3″	20′-3″	20′-3″	20′-3″	20′-3″	20′-3″	20'-3"	20′-3″	20'-3"	20′-3″	20′-3″	20'-3"	20′-3″	11'-6"
Second Sub-division, Garfield Ave. to Central Ave	20'-3"	20'-3"	20'-3"	20'-3"	20′-3″	20′-3″	20′-3″	20′-3″	20′-3″	20'-3"	20'-3"	20'-3"	20'-3"	20′-3″	20'-3"	20'-3"	20'-3"	20′-3″	11'-6"
Third Sub-division, West Duluth Jct. to Superior U. D	20′-3″	20'-3"	20'-3"	20'-3"	20′-3″	20′-3″	20′-3″	20′-3″	20′-3″	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	11'-6"
Fourth Sub-division, East End to Central Ave	21'-0"	21'-0"	21'-0"	21'-0"	21′-0″	21′-′0′	21'-0"	21'-0"	21'-0"	21'-0"	21′-0″	21'-0"	21′-0″	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	11'-6"

F. L. BIRDSALL,

Ass't Superintendent.

C. T. SPONSEL,

Ass't Superintendent.

H. J. COUNCILMAN,

Trainmaster.

GEORGE STEINER, Chief Dispatcher.

	N. P. <u>567</u>	DUL-SUPERIOR TERMINALS DIVIS
	NORTHERN PACIFIC RAILWAY CO.	
	DAKE SUPERIOR OFFICE OF SUPERINTENDENT DIVISION	
1. Second class and inferio	Duluth, Minn.; June 20th	Track. Speed will be restricted on all bridges for Engines Class S3, S4
and Duluth, Superior and Ricorders.	CIRCULAR 4	Engines Classes T, Q1 and heavier will not be permitted.
2. All inferior to first clas	NO. * DULUTH & SUPERIOR TERMINALS	nt and trailing point movements through switch fifteen (15) miles per hour.
3. Clearance Form A will Depot.	ALL CONCERNED: 12:01 AM, June 21 &	which the switch is normally lined may be made at normal speed.
4. Extra trains, work ext Duluth Junction and Duluth, b	EFFECTIVE DURING TH	E pring switches are prohibited.
nor between West Duluth Jet.	CONTINUANCE OF TIME TABLE NO	st be moved slowly, keeping a steady pressure on the handle until the switch tch on the switch stand provided for it. When signal governing block in
5. A Brakeman or Flagme proper flagging equipment. In	tens that the control of the control	op, or where automatic block signals do not govern account trains running movements must not be made over switch until points have been examined.
signals a sufficient distance to responsible for the strict observ	OMAHA TRAINS #304 and #510 will operate as follows:	ts of spring switches.
6. To insure personal safe stand to the right hand side of	<u>WESTWARD</u>	le track for main track, in addition to setting and locking switches for the n order, a flagman with proper flagging material will be stationed to fully
7. All trains must move w	<u>no. 304</u>	oner called for in Transportation Rules until movement over main track is accessary to leave switches set for siding they must fully protect approach-
8. The D. T. main track i Grassy Point main track. All	Lv. 3:36 PM BRIDGE SWITCH Lv. 8:49 PM	or other employees fully competent and equipped to do so.
9. All train crews, switch	3:40 PM ELEVATOR STATION 8:52 PM	tomatic Power Switch installed at end double track and Spring Switch at a connection with Spring Switch be governed by Rule (13), Special Instruc-
dock with this track to east end tions under full control, expecti	3:44 PM OMAHA CONN. 8:55 PM	Automatic Power Switch at West Duluth Jct., end of double track, operated line. When necessary to operate Switch by hand first throw lever marked ir marked "HAND-THROW LEVER." Both levers must be returned to
10. D. T. connection, local sidered a railroad crossing. Tr		pleting movement. Home Signal 146.1, Dwarf Signal 146.3, Home Signal nal 146.4, Signal 145.8 and Home Signal 146.6 are all Interlocking Signals
before proceeding.		In 140.4, Signal 140.8 and Home Signal 140.0 are all Interlocking Signals by. Trains finding Eastward Signal 146.0 and Westward 146.1 or Dwarf le end of double track switch, and if not in proper position use hand-throw
11. Bridge Restrictions. Speed will be restricted of hour.	POSTEDM	inal Rules. Normal position of Spring Switch for Grassy Point Line Normal rd trains.
nour.	June1931	At trains.
AUTHORIZED SU	$BB^{+}B = 1-2-3-4-6-7-8-9-12-13-14-15-16=$	WATCH INSPECTORS:—
Dr. A. L. KYLI Dr. W. H. SCH	Cy- FLB-CTS-HJC-GS-FFD-DF-WSK-NPW-HEM-EWL- PHM-CEU-FDK-CDS-EHB-CLH-CPB-GFH-AJS-	H. HENDRICKSON, Duluth, 416 West Superior St.
Dr. F. C. SARA Dr. C. H. CHR	een-ejj-ar-	E. E. ESTERLY, Duluth, 1919 W. Superior St.
Dr. G. C. MacI Dr. C. M. SMI		W. F. HURST, West Duluth, 301 N. Central Ave. L. J. HOWATT, Superior, 1313 Tower Ave.
Dr. O. E. HEIN Dr. C. L. HAN	G. H. JACOBUS	2. 0. 110 (11111, paperior), 1500 2000 1170
	SUPERINTENDENT	7
	LAKE SUPERIOR I HEREBY ACKNOWLEDGE RECEIPT OF DIVISION) Namp
	A	
	CIRCULAR NO WRICH WAS POSTED AT LOCATION	
	PLACE	9 ft. 6 in. 10 ft. 10 ft. 2 in. 10 ft. 6 in. 11 ft. 6 in. Max. Max. Wide Wide Wide Wide Wide Wide Wide
First Sub-division, Dulu	SIGNED	20'-3" 20'-3" 20'-3" 20'-3" 20'-3" 20'-3" 20'-3" 11'-6"
Second Sub-division, Ga	FIGURE CUTTE FOR FACH CIRCLE AR	20'-3" 20'-3" 20'-3" 20'-3" 20'-3" 20'-3" 11'-6"
Third Sub-division, Wes	USE ONE SHEET FOR EACH CIRCULAR. End to Central Ave	20'-3" 20'-3" 20'-3" 20'-3" 20'-3" 20'-3" 20'-3" 11'-6" 21'-0" 21'-0" 21'-0" 21'-0" 21'-0" 21'-0" 21'-0" 11'-8"
Tourse venturianis pass	10-14 P-14 D-14 D-14 D-14 D-14 D-14 D-14 D-14 D	

F. L. BIRDSALL,

Ass't Superintendent.

C. T. SPONSEL,

Ass't Superintendent.

H. J. COUNCILMAN,

Trainmaster.

GEORGE STEINER,

Chief Dispatcher.

