

# NORTHERN PACIFIC RAILWAY COMPANY.

**DULUTH AND SUPERIOR TERMINALS**

# TIME **156** TABLE

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

**SUNDAY, DECEMBER 28, 1930.**

**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.



**FIRST SUB-DIVISION**  
(DULUTH AND SUPERIOR TERMINAL)

**EASTWARD**

| FIRST CLASS |               |              |           |              |              |           |           |              |              | Water, Fuel, Bales, Turn Tables, Wyes and Yard Limits. | Station Numbers.       | Distance from D. & L. R. Jct. | Time Table No. 156<br>December 28, 1930<br>Succeeding No. 155. |               |              |           | Distance from Fond du Lac. | Car Capacity of Exchange. | FIRST CLASS           |           |             |  | SECOND CLASS |  | THIRD CLASS |  |
|-------------|---------------|--------------|-----------|--------------|--------------|-----------|-----------|--------------|--------------|--|------------------------|-------------------------------|--|---------------|--------------|-----------|----------------------------|---------------------------|-----------------------|-----------|-------------|--|--------------|--|-------------|--|
| 66          | 304           | 400          | 58        | 202          | 408          | 52        | 62        | 204          | 406          |  |                        |                               | 54   | 402           | 306          | 56        |                            |                           | 626                   | 628       | 718         |  |              |  |             |  |
| N. P. 66    | D. W. & P. 20 | D. M. & N. 5 | N. P. 58  | D. M. & N. 2 | D. M. & N. 9 | N. P. 51  | N. P. 62  | D. M. & N. 4 | D. M. & N. 7 |  |                        |                               | N. P. 53   | D. M. & N. 11 | D. W. & P. 6 | N. P. 56  |                            |                           | C. M. St. P. & P. 626 | N. P. 628 | N. P. 718   |  |              |  |             |  |
| Passenger   | Passenger     | Passenger    | Passenger | Passenger    | Passenger    | Passenger | Passenger | Passenger    | Passenger    |  |                        |                               | Passenger  | Passenger     | Passenger    | Passenger |                            |                           | Freight               | Freight   | Way Freight |  |              |  |             |  |
| Daily       | Daily         | Daily        | Daily     | Daily        | Daily        | Daily     | Ex. Sun.  | Daily        | Daily        |  |                        |                               |  | Daily         | Daily        | Ex. Sun.  |                            |                           |                       |           |             |  |              |  |             |  |
| A 6.30AM    |               | A 8.34AM     |           | A 11.59AM    |              | A 4.04PM  |           |              |              | 0.0  | EAST D. M. & N. JCT.   | 15.1                          |  |               |              |           |                            |                           |                       |           |             |  |              |  |             |  |
| 6.25        | A 8.33AM      | L 8.30AM     | A 8.45AM  | A 10.45AM    | L 11.55AM    | A 12.01PM | A 2.10PM  | A 3.45PM     | L 4.00PM     | 0.9  | DU DULUTH DN           | 14.2                          | Yard   | A 6.10PM      | L 6.55PM     | A 11.30PM | A 5.30AM                   |                           |                       |           |             |  |              |  |             |  |
| s 6.22      | 8.31          | L 8.42AM     | 10.42     |              | L 11.58AM    | 2.06      | 3.42      |              |              | 1.9  | GARFIELD AVE.          | 13.2                          |  | L 6.07PM      | A 8.27PM     | L 11.27PM | 5.20                       |                           |                       |           |             |  |              |  |             |  |
| 6.19        | 8.29          |              | 10.41     |              |              | s 2.05    | 3.41      |              |              | 2.2  | 20TH AVE.              | 12.9                          |  |               | 8.25         |           | A 5.10AM                   | 5.15                      |                       |           |             |  |              |  |             |  |
|             |               |              | L 10.39AM |              |              | L 2.02    | L 3.39PM  |              |              | 2.8  | WEST D. M. & N. JCT.   | 12.3                          |  |               | 8.23         |           | 5.03                       | 5.08                      | 12.18                 |           |             |  |              |  |             |  |
|             |               |              |           |              |              |           |           |              |              | 3.6  | SOO LINE CROSSING      | 11.5                          |  |               |              |           |                            |                           |                       |           |             |  |              |  |             |  |
| 6.14        | L 8.23AM      |              |           |              |              |           | s 1.55    |              |              | 4.4  | D. W. & P. JCT.        | 10.7                          |  | L 8.17PM      |              | 4.53      | 5.02                       | 12.08                     |                       |           |             |  |              |  |             |  |
| s 6.12      |               |              |           |              |              |           | s 1.52    |              |              | 5.1  | WU WEST DULUTH DN      | 10.0                          |  |               |              | 4.50      | 5.00                       | s 12.04                   |                       |           |             |  |              |  |             |  |
| L 6.03AM    |               |              |           |              |              |           | L 1.48PM  |              |              | 5.8  | WEST DULUTH JCT. P     | 9.3                           |  |               |              | L 4.45AM  | L 4.55AM                   | s 12.01PM                 |                       |           |             |  |              |  |             |  |
|             |               |              |           |              |              |           |           |              |              | 7.0  | D. T. CROSSING         | 8.1                           |  |               |              |           |                            |                           |                       |           |             |  |              |  |             |  |
|             |               |              |           |              |              |           |           |              |              | 8.1  | RIVERSIDE              | 7.0                           |  |               |              |           |                            |                           | s 11.45AM             |           |             |  |              |  |             |  |
|             |               |              |           |              |              |           |           |              |              | 8.5  | SPIRIT LAKE            | 6.6                           |  |               |              |           |                            |                           | s 11.43               |           |             |  |              |  |             |  |
|             |               |              |           |              |              |           |           |              |              | 9.7  | MORGAN PARK            | 5.4                           |  |               |              |           |                            |                           | s 11.35               |           |             |  |              |  |             |  |
|             |               |              |           |              |              |           |           |              |              | 10.7   | BOAT CLUB              | 4.4                           |  |               |              |           |                            |                           |                       |           |             |  |              |  |             |  |
|             |               |              |           |              |              |           |           |              |              | 12.4   | NEW DULUTH P           | 2.7                           |  |               |              |           |                            |                           | s 11.18               |           |             |  |              |  |             |  |
|             |               |              |           |              |              |           |           |              |              | 15.1   | FOND DU LAC            | 0.0                           |  |               |              |           |                            |                           | L 11.00AM             |           |             |  |              |  |             |  |
| Daily       | Daily         | Daily        | Daily     | Daily        | Daily        | Daily     | Ex. Sun.  | Daily        | Daily        |  |                        |                               |  | Daily         | Daily        | Ex. Sun.  |                            |                           |                       |           |             |  |              |  |             |  |
| .22         | .10           | .04          | .03       | .06          | .04          | .03       | .22       | .06          | .04          |  | Time Over Sub-Division |                               |  | .03           | .05          | .10       | .03                        | .25                       | .35                   | 1.22      |             |  |              |  |             |  |
| 11.1        | 16.0          | 13.5         | 20.0      | 19.0         | 13.5         | 20.0      | 13.3      | 19.0         | 13.5         |  | Average Speed Per Hour |                               |  | 20.0          | 10.8         | 15.0      | 20.0                       | 8.6                       | 8.4                   | 9.4       |             |  |              |  |             |  |

**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).

**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:**

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.

WESTWARD

SECOND SUB-DIVISION  
(DULUTH AND SUPERIOR TERMINAL)

| FIRST CLASS |             |             |             |             |              |             |              |             |              | Water, Fuel, Sealer,<br>Turn Tables, Wagon<br>and Yard Limits. | Station Numbers. | Distance from<br>Garfield Ave. | Time Table No. 156<br>December 28, 1930<br>Succeeding No. 155. |           | FIRST CLASS |             | SECOND CLASS |            |          |
|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|--|------------------|--------------------------------|--|-----------|-------------|-------------|--------------|------------|----------|
| 55          | 53          | 23          | 33          | 51          | 95           | 19          | 93           | 57          | 89           |  |                  |                                | STATIONS   |           |             |             |              |            |          |
| N. P.<br>55 | N. P.<br>54 | G. N.<br>23 | G. N.<br>33 | N. P.<br>52 | Omaha<br>304 | G. N.<br>19 | Omaha<br>512 | N. P.<br>57 | Omaha<br>510 |  |                  |                                | G. N. 35 N. P. 65 N. P. 623 N. P. 732                          |           |             |             |              |            |          |
| Passenger   | Passenger   | Passenger   | Passenger   | Passenger   | Passenger    | Passenger   | Passenger    | Passenger   | Passenger    |  |                  |                                | Passenger  | Passenger | Freight     | Freight     |              |            |          |
| Daily       | Daily       | Daily       | Daily       | Daily       | Daily        | Daily       | Daily        | Daily       | Daily        |  |                  | Telegraph Offices and Calls    |  |           |             |             |              |            |          |
| L 7.18AM    | L 9.03AM    |             |             | L 2.54PM    |              |             |              | L 7.33PM    |              |  |                  | 0.0                            |  |           |             |             | L 5.33PM     |            |          |
| 7.21        | 9.05        |             |             | 2.56        |              |             |              | 7.35        |              | WCO<br>TYX   | L 1              | 0.8                            |  |           | Yard        |             | 5.34         | L 12.35AM  |          |
| 7.23        | 9.07        | L 8.32AM    | L 8.43AM    | 2.58        | L 3.36PM     | L 4.07PM    | L 5.43PM     | 7.37        | L 9.06PM     |  |                  | 1.3                            |  |           |             | L 10.07PM   | 5.36         | 12.41      |          |
| 7.26        | 9.10        | 8.37        | 8.46        | 3.01        | 3.40         | 4.11        | 5.46         | 7.40        | 9.09         |  |                  | 2.2                            |  |           |             | 10.10       | 5.39         | 12.47      |          |
| 7.28        | 9.12        | 8.39        | 8.48        | 3.03        | A 3.44PM     | 4.14        | A 5.49PM     | 7.42        | A 9.12PM     |  |                  | 2.9                            |  |           |             | 10.12       | 5.41         | 12.55      |          |
| B 7.29      | B 9.14      | B 8.40      | B 8.50      | B 3.04      |              | B 4.15      |              | B 7.45      |              | X  | WB67             | 3.2                            |  |           |             | B 10.15     | L 12.06AM    |            |          |
| 7.31        | 9.15        | 8.41        | 8.51        | 3.05        |              | 4.16        |              | 7.47        |              |  |                  | 3.6                            |  |           |             | 10.16       | 12.10        | 5.52       | 1.00     |
| A B 7.45AM  | A B 9.25AM  | A B 8.50AM  | A B 9.00AM  | A B 3.15PM  |              | A 4.24PM    |              | A B 8.02PM  |              | WYX  | 67               | 7.3                            |  |           | Yard        | A B 10.25PM | A B 12.20AM  | A B 6.30PM | A 1.25AM |
| Daily       | Daily       | Daily       | Daily       | Daily       | Daily        | Daily       | Daily        | Daily       | Daily        |  |                  |                                |  |           |             | Daily       | Daily        | Daily      | Ex. Sun. |
| .27         | .22         | .18         | .17         | .21         | .08          | .17         | .06          | .29         | .06          |  |                  |                                |  |           |             | .18         | .14          | .57        | .50      |
| 16.2        | 19.9        | 20.0        | 21.1        | 20.8        | 12.0         | 21.1        | 16.0         | 13.7        | 16.0         |  |                  |                                |  |           |             | 20.0        | 17.1         | 7.7        | 7.8      |
|             |             |             |             |             |              |             |              |             |              |  |                  |                                | Time Over Sub-Division   |           |             |             |              |            |          |
|             |             |             |             |             |              |             |              |             |              |  |                  |                                | Average Speed Per Hour   |           |             |             |              |            |          |

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.

AT SUPERIOR:

AT CENTRAL AVENUE:

AT DULUTH:

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.  
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)

EASTWARD

| FIRST CLASS |             |              |             |             |              |             |             |             | Water, Fuel, Scales,<br>Turn Tables, Ways<br>and Yard Limits. | Station Numbers. | Distance from<br>Garfield Ave. | Time Table No. 156<br>December 28, 1930<br>Succeeding No. 155. |              | Distance from<br>Central Ave. | Car Capacity<br>of Siding. | FIRST CLASS |                |  | THIRD CLASS |  |
|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|---|------------------|--------------------------------|--|--------------|-------------------------------|----------------------------|-------------|----------------|--|-------------|--|
| 66          | 36          | 94           | 58          | 52          | 96           | 24          | 34          | 54          |   |                  |                                | 20   | 90           |                               |                            | 56          | 732            |  |             |  |
| N. P.<br>66 | G. N.<br>36 | Omaha<br>511 | N. P.<br>58 | N. P.<br>51 | Omaha<br>503 | G. N.<br>24 | G. N.<br>34 | N. P.<br>53 |   |                  |                                | G. N.<br>20  | Omaha<br>307 |                               |                            | N. P.<br>56 | N. P.<br>731   |  |             |  |
| Passenger   | Passenger   | Passenger    | Passenger   | Passenger   | Passenger    | Passenger   | Passenger   | Passenger   |   |                  |                                | Passenger  | Passenger    |                               |                            | Passenger   | Way<br>Freight |  |             |  |
| Daily       | Daily       | Daily        | Daily       | Daily       | Daily        | Daily       | Daily       | Daily       |   |                  |                                |  | Ex. Sun.     |                               |                            |             |                |  |             |  |
|             |             |              | A 8.42AM    | A 11.58AM   |              |             |             | A 6.07PM    |   |                  | 0.0                            |  |              | A 11.27PM                     |                            |             |                |  |             |  |
|             |             |              | 8.40        | 11.54       |              |             |             | 6.04        | WCO<br>TYX  | L 1              | 0.8                            |  |              | 11.25                         | A 11.15AM                  |             |                |  |             |  |
|             | A 7.53AM    | A 8.00AM     | 8.39        | 11.52       | A 12.13PM    | A 2.18PM    | A 5.53PM    | 6.02        |   |                  | 1.3                            |  | A 8.23PM     | A 8.13PM                      | 11.24                      | 11.12       |                |  |             |  |
|             | 7.49        | 7.55         | 8.36        | 11.49       | 12.09        | 2.14        | 5.49        | 5.59        |   |                  | 2.2                            |  | 8.19         | 8.09                          | 11.21                      | 11.08       |                |  |             |  |
|             | 7.47        | L 7.50AM     | 8.34        | 11.46       | L 12.05PM    | 2.12        | 5.47        | 5.57        |   |                  | 2.9                            |  | 8.16         | L 8.05PM                      | 11.19                      | 11.05       |                |  |             |  |
| As 5.47AM   | s 7.45      |              | s 8.33      | s 11.45     |              | s 2.10      | s 5.45      | s 5.56      | X   | WB67             | 3.2                            | BY SUPERIOR U. D.  | s 8.15       |                               | s 11.18                    |             |                |  |             |  |
| 5.40        | 7.41        |              | 8.30        | 11.44       |              | 2.06        | 5.41        | 5.54        |   |                  | 3.6                            | BELKNAP STREET   | 8.11         |                               | 11.15                      | 11.02       |                |  |             |  |
| L 5.29AM    | L 7.28AM    |              | L 8.19AM    | L 11.35AM   |              | L 1.58PM    | L 5.33PM    | L 5.45PM    | WYX   | 67               | 7.3                            | AJ CENTRAL AVENUE DN   | L 8.03PM     |                               | L 11.05PM                  | L 10.45AM   |                |  |             |  |
| Daily       | Daily       | Daily        | Daily       | Daily       | Daily        | Daily       | Daily       | Daily       |   |                  |                                |  | Daily        | Daily                         | Daily                      | Ex. Sun.    |                |  |             |  |
| .18         | .25         | .10          | .23         | .22         | .08          | .20         | .20         | .23         |   |                  |                                |  | .20          | .08                           | .22                        | .30         |                |  |             |  |
| 13.6        | 14.4        | 9.6          | 19.0        | 19.9        | 12.0         | 18.0        | 18.0        | 19.9        |   |                  |                                |  | 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 INSTRUCTIONS 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 ahead or routes lined up for movement 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.

Top arm, straight main line.

Bottom arm, Great Northern freight track.

Deraills 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 received 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, caution.

| WESTWARD    |                       |                |                |                |   |                  |                                   |  |             | THIRD SUB-DIVISION<br>(DULUTH AND SUPERIOR TERMINAL) |                |                |                                 |                             |             |  |  |  |  | EASTWARD |  |  |  |  |
|-------------|-----------------------|----------------|----------------|----------------|---|------------------|-----------------------------------|--|-------------|--|----------------|----------------|---------------------------------|-----------------------------|-------------|--|--|--|--|----------|--|--|--|--|
| FIRST CLASS |                       |                |                |                | Water, Fuel, Scales,<br>Turn Tables, Wyes<br>and Yard Limits. | Station Numbers. | Distance from<br>West Duluth Jct. | Time Table No. 156<br>December 28, 1930<br>Succeeding No. 155. |             |  |                |                | Distance from<br>Superior U. D. | Car Capacity<br>of Sidings. | FIRST CLASS |  |  |  |  |          |  |  |  |  |
| 65          | 309                   | 317            | 313            | 311            |   |                  |                                   | 310  | 66          | 318  | 312            | 314            |                                 |                             |             |  |  |  |  |          |  |  |  |  |
| N. P.<br>65 | D. S. S.<br>& A.<br>8 | Soo Line<br>18 | Soo Line<br>63 | Soo Line<br>61 |   |                  |                                   | D. S. S.<br>& A.<br>7  | N. P.<br>66 | Soo Line<br>17                                       | Soo Line<br>60 | Soo Line<br>62 |                                 |                             |             |  |  |  |  |          |  |  |  |  |
| Passenger   | Passenger             | Passenger      | Passenger      | Passenger      | STATIONS  |                  |                                   |  |             | Passenger  | Passenger      | Passenger      | Passenger                       | Passenger                   |             |  |  |  |  |          |  |  |  |  |
| Daily       | Daily                 | Daily          | Daily          | Ex. Sun.       | Telegraph Offices and Calls                                   |                  |                                   |  |             | Daily  | Daily          | Daily          | Ex. Sun.                        | Daily                       |             |  |  |  |  |          |  |  |  |  |
| L 11.50PM   |                       |                |                |                | WYX   | L 5              | 0.0                               | WEST DULUTH JCT. P   | 3.6         |  | A 6.03AM       |                |                                 |                             |             |  |  |  |  |          |  |  |  |  |
| 11.53       |                       |                |                |                |   |                  | 0.6                               | ZENITH FURNACE   | 3.0         |  | 6.01           |                |                                 |                             |             |  |  |  |  |          |  |  |  |  |
| 11.55PM     | L 8.17PM              | L 5.43PM       | L 1.44PM       | L 7.14AM       |   |                  | 1.3                               | Soo Line<br>DW&P BERWIND JCT. Conn.                            | 2.3         | A 5.16AM   | 5.58           | A 7.46AM       | A 7.52PM                        | A 5.31PM                    |             |  |  |  |  |          |  |  |  |  |
|             |                       |                |                |                |   |                  | 1.8                               | Interlocked<br>(GRASSY POINT<br>DRAWBRIDGE)                    | 1.8         |  |                |                |                                 |                             |             |  |  |  |  |          |  |  |  |  |
| 12.02AM     | A 8.27PM              | A 5.49PM       | A 1.50PM       | A 7.22AM       |   |                  | 3.3                               | Interlocked<br>L. S. T. & T. RY. JCT.                          | 0.3         | L 5.08AM   | 5.49           | L 7.39AM       | L 7.45PM                        | L 5.24PM                    |             |  |  |  |  |          |  |  |  |  |
| A 12.06AM   |                       |                |                |                |   | WB 67            | 3.6                               | 0.3<br>SUPERIOR U. D. D  | 0.0         |  | L 5.47AM       |                |                                 |                             |             |  |  |  |  |          |  |  |  |  |
| Daily       | Daily                 | Daily          | Daily          | Ex. Sun.       |   |                  |                                   |  |             | Daily  | Daily          | Daily          | Ex. Sun.                        | Daily                       |             |  |  |  |  |          |  |  |  |  |
| .16         | .10                   | .06            | .06            | .08            |   |                  |                                   | Time Over Sub-Division   |             | .08  | .10            | .07            | .07                             | .07                         |             |  |  |  |  |          |  |  |  |  |
| 13.5        | 12.0                  | 20.0           | 20.0           | 15.0           |   |                  |                                   | Average Speed Per Hour   |             | 15.0   | 13.5           | 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 DRAW BRIDGE:** 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 JUNCTION:**

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. Junction switch will be kept set and locked for terminal First Sub-Division main track. East leg of wye is terminal Third Sub-Division main track and the switch at junction at east and west legs of wye will be kept set and locked for main track.

| WESTWARD                    |           |           |             |           |   |                  |   |  |           | FOURTH SUB-DIVISION<br>(DULUTH AND SUPERIOR TERMINAL) |          |          |                               |                             |             |  |              |  |  | EASTWARD |  |  |  |  |
|-----------------------------|-----------|-----------|-------------|-----------|---|------------------|---|--|-----------|---|----------|----------|-------------------------------|-----------------------------|-------------|--|--------------|--|--|----------|--|--|--|--|
| THIRD CLASS                 |           |           | FIRST CLASS |           | Water, Fuel, Scales,<br>Turn Tables, Wyes<br>and Yard Limits. | Station Numbers. | Distance from<br>East End.                                | Time Table No. 156<br>December 28, 1930<br>Succeeding No. 155. |           |   |          |          | Distance from<br>Central Ave. | Car Capacity<br>of Sidings. | FIRST CLASS |  | SECOND CLASS |  |  |          |  |  |  |  |
| 731                         | 53        | 51        | 54          | 52        |   |                  |   | 732  | 54        | 52  | 732      |          |                               |                             |             |  |              |  |  |          |  |  |  |  |
| Way<br>Freight              | Passenger | Passenger | Passenger   | Passenger |   |                  |   | Freight  | Passenger | Passenger   | Freight  |          |                               |                             |             |  |              |  |  |          |  |  |  |  |
| Ex. Sun.                    | Daily     | Daily     | STATIONS    |           |   |                  |   | Daily  | Daily     | Ex. Sun.  |          |          |                               |                             |             |  |              |  |  |          |  |  |  |  |
| Telegraph Offices and Calls |           |           |             |           |   |                  |   |  |           | Telegraph Offices and Calls                           |          |          |                               |                             |             |  |              |  |  |          |  |  |  |  |
| L 10.30AM                   | L 5.35PM  | L 11.25AM | WOY         | X         | 63  | 0.0              | Pass. Station<br>EAST END D                               | 4.0  | Yard      | A 9.35AM  | A 3.25PM | A 1.40AM |                               |                             |             |  |              |  |  |          |  |  |  |  |
| 10.39                       | 5.39      | 11.29     |             |           | 65  | 1.8              | C. St. P. M. & O. Crossing<br>Interlocked 1.8 Track Conn. | 2.2  | Yard      | 9.31  | 3.21     | 1.33     |                               |                             |             |  |              |  |  |          |  |  |  |  |
|                             |           |           |             |           |   | 2.9              | HILL AVE.   | 1.1  |           |   |          |          |                               |                             |             |  |              |  |  |          |  |  |  |  |
| A 10.45AM                   | A 5.45PM  | A 11.35AM | WYX         |           | 67  | 4.0              | SOO LINE CROSSING<br>Interlocked 1.1 Track Conn.          | 0.0  | Yard      | L 9.25AM  | L 3.15PM | L 1.25AM |                               |                             |             |  |              |  |  |          |  |  |  |  |
|                             |           |           |             |           |   |                  | AJ CENTRAL AVE. DN  |  |           |   |          |          |                               |                             |             |  |              |  |  |          |  |  |  |  |
| Ex. Sun.                    | Daily     | Daily     |             |           |   |                  |   |  |           | Daily   | Daily    | Ex. Sun. |                               |                             |             |  |              |  |  |          |  |  |  |  |
| .15                         | .10       | .10       |             |           |   |                  | Time Over Sub-Division                                    |  |           | .10   | .10      | .15      |                               |                             |             |  |              |  |  |          |  |  |  |  |
| 16.0                        | 24.0      | 24.0      |             |           |   |                  | Average Speed Per Hour                                    |  |           | 24.0  | 24.0     | 16.0     |                               |                             |             |  |              |  |  |          |  |  |  |  |

**EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.  
DOUBLE 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 Furnace 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.
11. 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. SCHNELL, 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 Telephone  
Broad 1458R1  
Broad 65  
Broad 65  
Melrose 1089  
Melrose 1089  
Melrose 458  
Melrose 458

Residence Telephone  
Broad 161  
Broad 532  
Broad 192  
Hemlock 3954W  
Hemlock 1955  
Melrose 1157  
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.**

**LIMIT OF LOAD MEASUREMENT.**

|  | Height Above Top of Rail,                      |            |            |            |            |            |            |                  |            |                  |            |                  |             |                   |                   |             |                   |        |        | Max. Height | Max. Width |
|--|--|------------|------------|------------|------------|------------|------------|------------------|------------|------------------|------------|------------------|-------------|-------------------|-------------------|-------------|-------------------|--------|--------|-------------|------------|
|  | 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. 6 in. Wide | 11 ft. Wide | 11 ft. 6 in. Wide |        |        |             |            |
|  | 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" |             |            |
| 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" | 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" | 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" | 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.

