

# **NORTHERN PACIFIC RAILWAY COMPANY**

## **IDAHO DIVISION**

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# **Special Instructions No. 9**

**In Effect at 12:01 A. M.  
Pacific Standard Time**

**Thursday, January 1, 1948**

**These instructions constitute a part of the Time Table currently in effect.**

**Employees whose duties are in any way affected by the Time Table must have a copy of The Current Special Instructions and Current Time Table with them on duty.**

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**C. H. BURGESS,  
Assistant General Manager.**

**D. S. COLBY,  
Superintendent.**

**J. F. ALSIP,  
General Manager.**

**R. E. MATTSON,  
General Superintendent of  
Transportation.**

# ALL SUBDIVISIONS.

1. Speed Restrictions—	Maximum Speeds Permitted
Passenger trains .....	75 MPH.
Freight and mixed trains .....	50 MPH.
"J" Manifest freight trains .....	35 MPH.

The above speeds are subject to the restrictions of maximum speeds in miles per hour as shown by zones under each subdivision.

Reduce speed limits, within the zones listed, are designated by Advance-warning signs (diagonally upwards), Reduce speed signs (square with clipped corners) and Resume speed signs (vertical).

The Advance-warning signs are, except as otherwise specified, located approximately 3000 feet in advance of the Reduce speed signs, and the numerals on both signs indicate in miles per hour the maximum speed permitted from the Reduce speed sign to another Reduce speed limit, or to a sign indicating a higher speed, or to a Resume speed sign (RS).

If speeds authorized by zones or by Reduce speed signs, are greater than that prescribed below for certain trains or engines, such trains or engines must not exceed the prescribed speeds.

Locations where reduced speeds are required, but not indicated by signs, are listed under the zones of maximum speeds permitted for each subdivision.

All trains and engines, except as otherwise specified:

Through crossovers, turnouts and gantlets, except where fixed signals provide otherwise .....	15 MPH.
Handling steam wrecking cranes, pile drivers, locomotive cranes and similar equipment .....	30 MPH.
Handling 4-wheel scale test cars—Main Line .....	35 MPH.
Branch Lines.....	25 MPH.
Picking up train orders from operators.....	30 MPH.

Engines— Classes—	Handling trains	Running light
All A and Q (except on passenger trains where higher speed is authorized).....	60 MPH.	60 MPH.
Z-6, Z-7 and Z-8 .....	60 MPH.	50 MPH.
Z-5, Y, Y-1, Y-3 .....	40 MPH.	35 MPH.
Z-3, Z-4 .....	35 MPH.	30 MPH.
S-4, T, T-1, W to W-5 inc., Y-2.....	50 MPH.	45 MPH.
Steam switch engines, without engine trucks, under all conditions.....	15 MPH.	15 MPH.
660 HP diesel-electric switch engines, Nos. 125 to 131 inc. ....	45 MPH.	45 MPH.
5400 HP and 6000 HP diesel-electric road engines, 6000 series .....	65 MPH.	65 MPH.
4500 HP diesel-electric passenger engines, 6500 series .....	75 MPH.	65 MPH.
900 HP and 1000 HP diesel-electric switch engines and combination road-switch engines .....	60 MPH.	60 MPH.
Coming from shops, under steam, to prevent running hot:		
All A and Q and classes Z-6, Z-7 and Z-8.....	50 MPH.	
S-4, T, T-1, W to W-5 inc., Y-2, Z-5 .....	35 MPH.	
Y, Y-1, Y-3 .....	30 MPH.	
Z-3, Z-4 .....	25 MPH.	

Main Line—With main and side rods removed:		
All A and Q and classes Z-6, Z-7 and Z-8.....	30 MPH.	
Z-5, S-4, T, T-1, W to W-5 inc., Y to Y-3 inc.....	25 MPH.	
Z-3, Z-4 .....	20 MPH.	

With main rods removed and side rods in place:		
All A and Q and classes Z-6, Z-7 and Z-8.....	35 MPH.	
Z-5, S-4, T, T-1, W to W-5 inc., Y to Y-3 inc.....	30 MPH.	
Z-3, Z-4 .....	25 MPH.	

Branch Lines—with either or both main and side rods removed:		
All A and Q classes .....	25 MPH.	
All other classes .....	20 MPH.	

On bridges—With either or both main and side rods removed:		
Steam switch engines, without engine trucks .....	15 MPH.	
Other engines .....	20 MPH.	

In the event the above speeds are in excess of 50% of the permissible speed for operating the engine in working order over any bridge carrying speed restrictions, speed on such bridges shall be 50% of the permissible speed for engine in working order.

Dead engines going to shops or being transferred from one district to another with all rods up or in place, the piston rod parted from the crosshead and removed and the valve motion disconnected and blocked, may be moved in trains at not to exceed the permissible speed of freight trains operating in the territory over which the engines are to be moved, or the operating speed restriction for track or bridges for that class of engine, whichever is the lower.

Engines handled in this manner when coming from shops must not exceed the operating speeds specified for engines coming from shops under steam.

Diesel-electric, 660 HP Nos. 125 to 131 inc., when handled dead in train .....	45 MPH.
Diesel-electric, other engines, when handled dead in train .....	50 MPH.

Bridge or other restrictions must be observed for these engines the same as when in operating condition.

## 2. Single and Double Headers; operation—track and bridges—general.

Except as otherwise provided, double header operation of engines of the same class carry the restrictions applicable to single headers of that class. Double headers of engines of different classes carry the restrictions applicable to double headers of the heavier class of the combination.

Diesel engines—Except as otherwise provided, diesel-electric engines of the 6000 and 6500 series and all diesel switch engines may be operated over bridges under the same restrictions shown for Class T engines.

Wrecking cranes—250 tons, 45 to 48 inc. must not be coupled directly to engine or tender of engines Classes A-2 to A-5 inc. or Z-5 to Z-8 inc., but must be separated from them by at least two cars of not over 169,000 pounds total weight, for movement over bridges.

## 3. Use of Mars headlight on engines so equipped—

The Mars headlight may display either a white or red, stationary or oscillating light, to be used in addition to the standard headlight.

The Mars white light may be used in a stationary position as a substitute headlight in case of failure of the standard headlight, but will normally be used as an oscillating light during the time full display of standard headlight is required. The Mars oscillating red light will be used when head end protection is required, either by day or by night by engineer control, if the train becomes disabled or is stopped suddenly due to unusual occurrence with the possibility of an adjacent track being obstructed, or if it overruns the clearance point at a meeting or waiting point, or at the end of double track or at a junction, or in any other emergency situation.

The engineer of an approaching train, finding oscillating red light displayed, must stop and then be governed by conditions existing. If on an adjacent track which he finds unobstructed and safe for operation, he may proceed at restricted speed until the standing train displaying the oscillating red light has been passed. The Mars red light will be displayed in stationary position when a train is occupying the main track at a meeting point with an opposing train until the headlight of the opposing train has been dimmed, per Rule 17(B), after which the red headlight will be extinguished.

The use of the red headlight does not in any manner relieve the train or engine men of responsibility for compliance with the provisions of Rules 99 and 102.

## 4. Lights will not be displayed at night on train order signals on the 5th, 7th, 8th, 9th, 11th and 13th Subdivisions. Trains will be governed by the day indications of these train order signals.

## 5. Rule D-97 applies to all divisions.

6. Except in case of fog, storms, or otherwise bad weather, yellow signals may be used, without flagmen, when placed as prescribed by Rule 10(h) to indicate approach to a red signal on 5th, 7th, and 13th Subdivisions; on 8th Subdivision between Connell and Adrian; and on 9th Subdivision between Attalia and Dayton; and also in special cases authorized by the Superintendent and protected by train order.

## 7. Rule 606: Emergency signals are not used at interlockings or drawbridges operated by the Northern Pacific Railway.



8. Test of hand brakes of gas-electric motor cars must be made once each trip. If crew has charge of moving car prior to leaving initial station, test will be made during such movement; otherwise, as soon as possible after leaving initial station. On cars equipped with "Deadman's Control", conductor and engineer will cooperate in making test.

9. Gas-electric motor cars, when handled dead in freight trains, must be behind caboose.

Scale test cars must be handled only in local freight trains, and placed immediately ahead of the caboose.

Cranes or similar machines geared for self-propulsion moving on commercial billing, must not be handled in time freight trains.

When handling pile driver 25, it must be coupled to either the regular tender or a flat or gondola car with open end next to cab end of pile driver to provide proper clearance.

10. Precautions must be taken on double track to prevent accidents from swinging doors or other loose construction attached to cars or engines.

11. Electric Switch Locks—To operate, open door of electric switch lock and, if indicator shows "proceed", move lock lever to the left, which will unlock switch and permit it to be opened and movement may be made at once. If indicator shows "stop", and conflicting train movement is not evident, open door of release box and push the push button. This will start operation of clock-work release, which will run down in three minutes and, at the end of that time, indicator will show "proceed" and switch can be unlocked by moving lever to the left. Restore lock lever, close and lock doors of electric locks and release boxes when switches are restored to normal position.

12. Signal Operation at Spring Switches Equipped for Switch Key Operation—Unless otherwise provided, the normal position of the spring switch is for main track. The normal indication of main track signals is Proceed. The normal indication of siding signal is Stop. To clear the siding signal when train is ready to enter main track, insert switch key in control box and turn to right. If route is clear the siding signal will immediately clear.

If siding signal does not clear by switch key operation, open release box and push the button which will put the time release mechanism into operation. After time release has operated, the siding signal will clear if there is no conflicting train movement. The release box door must be left open until leading wheels of train on the siding have passed the siding signal, then close and lock the release box door.

If the siding signal has been cleared and train on the siding is not ready to depart, if necessary to clear signals for a main track movement, open the release box door and push the button which will start the time release mechanism. After the time release mechanism has started to operate, close and lock the release box door.

13. On double track, trains handling logs will not be permitted to meet passenger trains between stations. Conductors will notify Dispatcher when there are logs in their trains and secure train order that passenger trains will be held at next station until they have arrived.

On single track, trains handling logs, when meeting passenger trains will not proceed unless the passenger train is standing still or has moved by the log cars. Conductors of all trains picking up logs must know personally that cars are not overloaded, or improperly loaded, and are safe to move without loss of lading.

14. Pusher engines must not push on cabooses not equipped with steel sills.

15. Bulletin Stations—

Paradise—Passenger Station .....	East	
Yardley—Yard Office, Roundhouse .....	East	West
Spokane—Erie St. Yard Office, .....	East	
Passenger Station .....	East	West
Cheney—Passenger Station .....	East	
Pasco—Passenger Station, Roundhouse .....		West
Walla Walla—Passenger Station .....		West
Yakima—Passenger Station, Yard Office, .....		West
Roundhouse .....		West

Lewiston—Passenger Station .....	East
East Lewiston—Yard Office, Roundhouse .....	East
Pullman—Passenger Station .....	East
Toppenish—Passenger Station .....	West

Designation "East" or "West" corresponds with territory assigned to East and West train and engine service employees.

16. Standard Time Clocks—

Paradise—Passenger Station.
Yardley—Roundhouse, Yard Office.
Spokane—Passenger Station.
Pullman—Passenger Station.
Lewiston—Passenger Station.
East Lewiston—Yard Office.
Coulee City—Passenger Station.
Pasco—Passenger Station, Roundhouse.
Walla Walla—Passenger Station.
Toppenish—Passenger Station.
Yakima—Passenger Station, Yard Office.

17. Watch Inspectors—

Plains .....	Julian Mercier.
Spokane .....	Swanson Jewelry.
Pullman .....	F. & M. Jewelry.
Lewiston .....	M. L. Haines; T. L. Dean.
Pasco .....	Watch Shop.
Walla Walla .....	Falkenberg Jewelry.
Yakima .....	Carson and Stedman.
Ellensburg .....	Phillips Jewelry.

## FIRST SUBDIVISION.

### MAIN LINE

1. Speed Restrictions—	Maximum Speeds Permitted	
	Freight and mixed	Passenger
Zone—Between		
Paradise and MP 41 (between Belknap and Talc) .....	50	60
MP 41 and MP 57 (between Trout Creek and Tuscor) .....	50	75
MP57 and MP 95 (between Clarks Fork and Hope) .....	50	60
MP 95 and MP 0 (at Kootenai) .....	50	75
MP 0 and MP 27 (between Granite and Athol) .....	50	60
MP 27 and Irvin .....	50	75
Irvin and Yardley, both tracks .....	50	75
Over street crossings within corporate limits—		
Plains and Thompson Falls .....	30	MPH.
At Trout Creek, passing coal dock .....	40	MPH.
2. Bridge and Engine Restrictions—		
Bridge 36, between Thompson Falls and Belknap: Double header engines classes Z-5, Z-6, Z-7 and Z-8 not permitted. Single header class Z-5 and doubleheader classes A-2, A-3, A-4 and A-5 .....	10	MPH.
Single header classes Z-6, Z-7 and Z 8 .....	15	MPH.
Lighter classes .....	20	MPH.
Train not to exceed 30 MPH after engine is off bridge.		
Wrecking cranes 45, 46, 47 and 48 .....	15	MPH.
Bridge 92 between Colby and Clarks Fork—		
Engines class Z-5 .....	20	MPH.
Lighter classes .....	30	MPH.
Bridge 3-2 between Sand Point and Lignite .....		
Engines Classes A-2 to A-5 inc. and Z-5 to Z-8 inc. .....	20	MPH.
Lighter Classes, over draw span only .....	30	MPH.

Engines Class W-3 and heavier not permitted on following tracks between Paradise and Yardley.

Plains ..... Log and mill spurs.

Weeksville ... Spur.

Thompson Falls Stock spur east of stock yards.

Heron ..... Loading track.

Kolliner ..... Spur.

Oden ..... Spur.

Cocolalla ..... Spur.

Hauser ..... Storage track east of east frog of storage tracks No. 1 and No. 2.

Irvin ..... Cement plant lead, east of highway.

8. At Kootenai—Westward freight trains will hold main track unless otherwise instructed, except must clear first class and passenger extra trains.

Interchange, N. P. to S. I. Ry. on S. I. Ry. east wye track, from S. I. Ry. to N. P. on S. I. Ry. west wye track.

The two main track switches and the connecting switches at east end of eastward siding and west end of westward siding adjacent to telegraph office will be handled by operator for train movements.

4. At Sand Point—Time of first class trains applies at passenger station.

Unless otherwise instructed, eastward freight trains will head in and move through to Kootenai.

5. At Velox—Trains having cars consigned to, or making pick-ups at, Naval Supply Depot will be governed as follows:

Set-out and pick-up will be made inside yard of depot and use of tracks are designated east to west as:

No. 1—Main track and runaround.

No. 2—Set-out.

No. 3—Pick-up.

No. 4—Storage.

No. 5—Lead and runaround.

Conductors will call Walnut 1583 from Irvin and notify the guard at Velox the approximate arrival time at Velox. On arrival at the gate, engineer will give whistle signal 1 long and 1 short. The guard will unlock gate and permit train to enter yard. The signal to be repeated if guard does not make his appearance in reasonable time.

6. At Trentwood—Switch leading to the Aluminum Plant will be lined for track No. 2 and locked with private lock. Unless otherwise instructed, N. P. Ry. crews will not pass No. 2 switch on the Aluminum Plant lead.

7. At Irvin—Switch at end of double track is automatically operated dual control. Normal position is for the westward track. Time of all trains applies at the switch.

An inferior train on westward main track must keep west of signal clearing section when a train is approaching Irvin on eastward main track.

When necessary to operate the switch by hand, the engineer will have a lighted fusee left at the switch stand immediately before train proceeds and then will stop train for rear trainman to line switch to normal position. Train will not again proceed until fusee has been extinguished and proper signal received from rear trainman.

8. At Yardley—Time of first class trains applies at crossover Havana Street.

9. Train Inspection—Westward freight trains must be inspected at or before passing Trout Creek and at or before passing Cocolalla. Eastward freight trains must be inspected at Kootenai, and at or before passing Trout Creek.

10. Spring Switches—At Paradise, west switch equipped with facing point lock.

At Colby, east switch of siding, equipped with facing point lock and switch key signal operation.

At Algoma, west switch of siding, equipped with facing point lock and switch key signal operation.

At Granite, west switch of siding, equipped with facing point lock and switch key signal operation.

At Yardley, both ends of single track and also yard lead connection to single track, equipped with facing point locks.

11. Sidings—

At Paradise, house track will be used as siding for westward first class and passenger extra trains. Eastward siding will be used for eastward first class and passenger extra trains.

Plains: North siding is westward; south siding is eastward. Thompson Falls: North siding is westward; south siding is eastward.

Trout Creek: North siding is eastward; south siding is westward. Heron: North siding is westward; south siding is eastward.

12. Yard Limits—

Tracks between yard limit signs east of Kootenai and west of Sand Point operated as one yard.

Tracks between yard limit signs east of Yardley and west of Spokane operated as one yard.

13. Double Track—Between Yardley and Irvin, inferior trains may run ahead of superior trains with the current of traffic without train order authority. First class and passenger extra trains must not be delayed.

14. Double Track Exception—At Yardley.

Single track between 2900 feet east of Hardesty Road overhead bridge, and 1600 feet west thereof.

Movements with the current of traffic from double track, and from yard lead to this single track will be governed by block signals, whose indications supersede the superiority of trains.

15. Register Stations—

Paradise.

Clarks Fork, for trains originating and terminating.

Yardley, for second class and inferior trains, except passenger extras.

Kootenai, for trains originating and terminating.

16. Clearance Exceptions—At Yardley, trains cleared at Spokane will not require clearance.

## SECOND SUBDIVISION.

(MAIN LINE)

1. Speed Restrictions— Zone—Between	Maximum Speeds Permitted	
	Freight and mixed	Passenger
Yardley and Marshall, both tracks—with current of traffic .....	50	60
Spokane and Marshall, against current of traffic, .....		
Marshall and MP 2 .....	50	50
MP 2 and MP 1 .....	35	35
Marshall and Cheney (west switch) .....	50	60
Cheney and Fishtrap (west switch) .....	50	75
Fishtrap and MP 49 (between Concord and Keystone) .....	50	60
MP 49 and MP 79 (between Paha and Lind) .....	50	75
MP 79 and MP 115 (east switch Cactus).....	50	60
MP 115 and Pasco .....	50	75

At Spokane and Pasco, all movements over passenger station tracks, or approaches to, and over crossovers, and switches leading to these tracks.....Restricted Speed

At Spokane through U. P. interlocking.....25 MPH.

Over street crossings within corporate limits:

Cheney .....	25 MPH.
Sprague .....	45 MPH.
Ritzville .....	30 MPH.

2. Bridge and Engine Restrictions—

Between Yardley and Pasco—Engines Classes Z-5, Z-6, Z-7, Z-8 and all A Classes permitted only on following back tracks:

Between Yardley and Erie Street.....Old Main Track.

Erie Street Yard .....Tracks 1, 2, 3, 4, 5, 6, 7, 8, 9.

Spokane, all passenger station tracks and north and south running tracks.

Marshall—Tracks 5 and 6 and wye and sixth subdivision main track east of Bridge 0-1 located 700 feet west of wye switch.



Cheney . . . . . All tracks to a point 800 ft. west of west switch of wye on Eighth Subdivision except engine spur and coal dock track.

Fishtrap . . . . . Spur.

Sprague . . . . . House track, Standard Oil spur, Mill spur, stock track.

Pifer . . . . . Spur.

Ritzville . . . . . Freight house, old house track, west 300 feet and east 450 feet Green's track. Wood, Union Oil, Texas, Shell and Light spurs, West No. 2 track, Mill track to scale, west end of stock track to stock yard.

Lind . . . . . All tracks.

Cunningham . . . . . East 800 ft. of the house track.

Hatton . . . . . Warehouse track.

Connell . . . . . Wye tracks.

Mesa Pit . . . . . Main line storage track.

Eltopia . . . . . Elevator track.

3. Spokane—U. P. Interlocking—Engine whistle signals—

WESTWARD

From old main to old main . . . . . 1 long, 1 short, 1 long.

From old main to westward main . . . . . 4 short.

From old main to Erie St. yard . . . . . 3 long.

From westward main to westward main . . . . . 4 short.

From westward main to Erie St. yard . . . . . 3 long.

From eastward main to westward main . . . . . 4 short.

From eastward main to Erie St. yard . . . . . 3 long.

From Fairground to westward main . . . . . 4 short.

From Fairground to Erie St. yard . . . . . 3 long.

EASTWARD

From old main to old main . . . . . 1 long, 1 short, 1 long.

From Erie St. yard to eastward main . . . . . 2 long, 2 short.

From Erie St. yard to Fairground . . . . . 3 long.

From Erie St. yard to old main . . . . . 1 long, 2 short, 1 long.

From westward main to eastward main . . . . . 2 long, 2 short.

From westward main to old main . . . . . 1 long, 2 short, 1 long.

From westward main to Erie St. yard . . . . . 3 long.

From eastward main to eastward main . . . . . 4 short.

From eastward main to Fairground . . . . . 3 long.

From eastward main to old main . . . . . 1 long, 2 short, 1 long.

4. Marshall Interlocking—Signal Indications:

WESTWARD

Three-arm semaphore type, located to the right of westward main track:

Top arm—Fixed position.

Middle arm—From westward main track to Second or Sixth Subdivisions, siding, or SP&S connection.

Bottom arm—From westward main track to single track or siding.

Dwarf semaphore type, located to the right of eastward main track:

From eastward main to Second, or Sixth Subdivisions, siding, or SP&S connection.

EASTWARD

Three-arm semaphore type, located to the right of SP&S connection:

Top arm—Fixed position.

Middle arm—From SP&S connection to eastward main track.

Bottom arm—From SP&S connection to westward main track.

Dwarf semaphore type located to the right of siding:

From siding to eastward or westward main track.

Two-arm semaphore type, located to the right of Second Subdivision main track:

Top arm—From Second Subdivision single track to eastward main track.

Lower arm—From Second Subdivision single track to westward main track.

Three arm semaphore type, located to the right of Sixth Subdivision main track:

Top arm—Fixed position.

Middle arm—From Sixth Subdivision main track to eastward Second Subdivision main track.

Bottom arm—From Sixth Subdivision main track to westward Second Subdivision main track.

WHISTLE SIGNALS

WESTWARD:

Westward main to Second Subdivision single track . . . . . 3 long, 1 short

Sixth Subdivision . . . . . 1 long, 2 short, 1 long

Siding . . . . . 1 long, 1 short, 1 long, 1 short

SP&S connection . . . . . 1 long, 1 short, 1 long

EASTWARD:

Eastward main track . . . . . 4 short

5. At Yardley—Time of first class trains applies at crossover Havana Street.

6. At Marshall—Time of first class trains applies at end of double track.

7. Double Track—

Between Yardley and Spokane—Engines enroute from roundhouse to passenger station for first class trains must not be delayed by second class or extra trains.

Between Yardley and Marshall inferior trains may run ahead of superior trains without train order authority, avoiding delay to superior trains, to the greatest practicable extent.

At Marshall, eastward extra trains will not require double track clearance or train order authority to move with current of traffic to Spokane or Yardley if train order signal indicates proceed. Operator at Marshall must secure authority from train dispatcher before admitting eastward second class and extra trains to double track.

8. At Ritzville—Through freight trains will take enough water only to make the next water station.

9. At Pasco—Time of first class and passenger extra trains applies at passenger station. When passenger trains meet, the train required to take siding, unless otherwise instructed, will use a specified track in the passenger yard or hold the main track as directed by the yardmaster.

All incoming freight trains must be secured by setting at least six (6) hand brakes on west end of train. On all outgoing trains hand brakes must not be released until road engine is coupled and air pressure obtained on caboose.

Third Subdivision instructions govern.

10. Train Inspection.—Freight trains must be inspected at or before passing Lind, moving via SP&S, at or before passing Washtucna, and at or before passing Lamont.

11. Spring Switches—At Marshall, west end of siding, equipped with facing point lock and switch key signal operation.

12. Sidings—At Cheney, passenger trains required to take siding, unless otherwise provided, will use the Eighth Subdivision main track between the crossover east of passenger station and west main track switch as siding.

Lind: North siding is westward; south siding is eastward.

Connell: North siding is eastward; south siding is westward.

13. Yard Limits—

Tracks between yard limit signs east of Yardley and west of Spokane operated as one yard.

14. Whistle Signals, prescribed by Rules 14(r) and (s) are to be used by N. P. trains on the S. P. & S. Ry. between Scribner and Marshall and at Marshall, as occasion requires.

15. Clearance of Structures—

At Marshall overhead crossing west of tower and 3800 ft. west of M. P. 8 will not clear main standing on top of a high car or on coal of tender of Z-5, Z-6, Z-7, Z-8, W-3, W-5 or A classes engines coaled to capacity.

16. Pusher District—

Between Yardley and Cheney.

At Cheney—On westward freight trains, immediately after rear of train has passed east switch of the siding, the air hose between the caboose and the helper engine will be separated after turning angle cocks, but the coupling pin will not be lifted until rear of train has reached the east switch of No. 1 track. Conductor will personally see that coupling pin is lifted on caboose

and that signal is given to engineer of helper engine, who will allow slack to run out gradually. The speed of train to be reduced to twelve (12) MPH until helper engine has been cut off and signal 14(b) given by helper engineer. After separating from the caboose the helper engine will be stopped promptly. At Yardley, immediately after coupling on the train, the road engine will stretch the slack to ascertain that all couplings have been made.

17. **Register Stations—**  
 Yardley for second class and inferior trains, except passenger extras.  
 Spokane for first class trains and passenger extras.  
 Pasco.  
 Marshall Interlocking—Regular trains.
18. **Register Exception—**Marshall Interlocking—Eastward regular trains will register by Form 608.  
 Eastward second class and inferior trains and all westward trains will be furnished register check Form 602 by the operator as authorized by train dispatcher, either instead of, or in addition to, train order check.
19. **Clearance Exceptions—**  
 At Yardley. Westward first class trains and passenger extras will not require clearance.  
 At Spokane. First class trains and passenger extras will require clearance.  
 At Marshall—Trains from Sixth Subdivision and S. P. & S. running with the current of traffic will not require clearance if the train order signal indicates proceed.

### THIRD SUBDIVISION. (MAIN LINE)

1. Speed Restrictions— Zone—Between	Maximum Speeds Permitted	
	Freight and mixed	Passenger
Pasco and Vista (east switch) .....	50	60
Vista and MP 21 (between Badger and Kiona) .....	50	75
MP 21 and MP 40 (Prosser, east switch) ....	50	60
MP 40 and MP 88 (east end Yakima) .....	50	75
MP 88 and Yakima passenger station .....	50	60
At UP crossing—Interlocking (between Parker and Union Gap) .....	50	60

At Pasco—All movements over passenger station tracks, or approach to, and over crossovers, and switches leading to these tracks at restricted speed.

At Gibbon, passing station and coal dock .....40 MPH.

At Wapato—Trains which dispatch mail without  
stopping .....25 MPH.

Over street crossings within corporate limits;

Kennewick, Prosser, Toppenish and Wapato.....30 MPH.

Yakima—Over Yakima Ave. and B, C, D Streets.....20 MPH.

Approach Yakima passenger station at restricted speed.

2. **Bridge and Engine Restrictions—**  
 Bridge No. 1, between Pasco and Kennewick:  
 Engines Classes A-3, A-4, A-5, Z-5, Z-6, Z-7, Z-8,  
 and SP&S engines classes Z-6 and Z-8.....20 MPH.  
 Engines Classes A, A-1, A-2 and Z-4 and SP&S class  
 E-1 .....30 MPH.  
 All engines, over the draw span .....20 MPH.  
 Engines Classes A-2 to A-5 inc. and Z-5 to Z-8 inc., are permitted  
 ONLY on following back tracks:

Kennewick—All tracks except team, transfer, Standard Oil spur  
and house track east of Washington St.

Kiona—Storage track.

Gibbon—Wye, storage, Nos. 1 and 2 tracks.

Mabton—No. 2 and stock tracks.

Satus—Storage, team and beet tracks.

Toppenish—Stock, Standard Oil, Fruit, High-line pocket, east  
extension and West No. 1, New Yard.

Wapato—Big Y team and house, stock, Hay Nos. 1 and 2 and  
yard lead.

Yakima—Engines Classes A-2 to A-5, inclusive, and Z-5 to Z-8,  
inclusive, not permitted on Yard Tracks 6, 7, 8, 9, 10 and 11,  
or on tracks west of passenger station except main track, High-  
line No. 1 and old eastward siding.

3. **Between Pasco and Kennewick—**All movements between Pasco  
passenger station and east switch at Kennewick are governed  
by signal indications which supersede the superiority of trains  
for both opposing and following movements on the same track.  
Freight trains, yard engines, and light engines must avoid delay  
to first class trains and passenger extras.  
Between Pasco and SP&S Jct., trains to and from the SP&S  
will display the same signals as required arriving and leaving  
SP&S Jct. on SP&S Ry. but regular trains will use schedules  
shown on N. P. time table carrying SP&S Ry. connections.

4. **Double Track—**Between east switch of main track crossover  
west of Pasco passenger station and spring switch at west end  
of double track east of Columbia River bridge. Normal position  
of spring switch is for eastward main track. Normal position  
of all other main track switches is for movements to and from  
freight yard.

Signals governing movements on eastward main track against  
the current of traffic between freight yard and west end of  
double track, in addition to normal movements; a dwarf signal,  
located east of east end of double track crossover, governs  
westward movements from eastward freight lead to eastward  
main track, normal indication of this signal is "approach" and  
there is no approach clearing circuit. When instructed by the  
yardmaster, westward trains from freight yard may use east-  
ward main track in accordance with Rule 261, after single track  
signals between Pasco and Kennewick have been cleared by the  
operator. When a westward train enters approach clearing cir-  
cuit located near B Street, the westward stop signal at west end  
of double track, governing movements from westward main  
track, will change to stop indication and the corresponding  
dwarf signal, governing westward movements from eastward  
main track, will change to clear indication for movements to  
N. P. Third Subdivision or approach indications for movements  
to SP&S Second Subdivision.

No provisions are made for westward movements from passenger  
station to eastward main track by signal indication.

Movements between roundhouse tracks and freight yard will  
not affect automatic block signals.

Dwarf signal, located west of east end of double track cross-  
over, governs eastward movements from westward main track  
through the east end of double track.

5. **At Pasco—**Time of first class and passenger extra trains applies  
at passenger station. Westward stop signal governing move-  
ments from freight yard to westward main track is semi-auto-  
matic and controlled from telegraph office. Westward trains  
will not leave yard tracks until this signal indicates "approach"  
or "clear".

When passenger trains meet, the train required to take siding,  
unless otherwise instructed, will use a specified track in the pas-  
senger yard or hold the main track, as directed by the yard-  
master.

6. **Columbia River Drawspan—**Upper light of westward color light  
home signal governs N. P. route; lower light governs SP&S  
route.

7. **At Kennewick—**Normal indication of signal 34 is "approach".  
When this signal indicates "clear" an eastward train may pro-  
ceed on main track to east switch.

8. **Dual Control Switch—**  
 At SP&S Jct., switch is normally lined for NP main track and  
may be electrically operated with remote control by the operator  
at Pasco.



### 9. Spring Switches—

At Pasco, 350 ft. east of Columbia River Bridge equipped with facing point lock.

At Kiona, east switch of siding, equipped with facing point lock and switch key signal operation.

At Union Gap, east switch of siding equipped with facing point lock.

### 10. Sidings—

Badger: North siding is westward, south siding is eastward.

Gibbon: Siding east of Fourth Subdivision connection is westward.

Siding west of Fourth Subdivision connection is eastward.

Prosser: North siding is eastward, south siding is westward.

Mabton: North siding is eastward, south siding is westward.

Toppenish: North siding is westward, south siding is eastward

Wapato: North siding is eastward, south siding is westward.

At Toppenish and Yakima; when passenger trains meet, the train required to take siding, unless otherwise instructed, will use High Line Pocket track as siding.

At Union Gap:

Time of first class trains applies at switch at east end of siding. Siding extends westward and is connected with the east lead of the Yakima freight yard.

Westward trains arriving Yakima freight yard will, unless otherwise directed by train order, enter the yard by way of the crossover located 4320 ft. west of MP 87. Eastward trains leaving Yakima freight yard may use the Union Gap siding.

### 11. At Yakima—Time of first class and passenger extra trains applies at passenger station.

All trains pulling into freight yard must secure trains by setting not less than six (6) hand brakes on east end of train.

Normal position of switch leading to siding extending between east end of Yakima yard and Union Gap is for siding. Switch to spur track leading off this siding, located 200 feet east of west switch of siding, must be left lined and locked for spur track when not in use to act as a derail for all yard tracks.

Tacoma Division instructions govern.

### 12. Extra trains—Between Pasco and Yakima will run via Third Subdivision, unless otherwise instructed by train order.

### 13. Pusher District—

Between Pasco and Badger.

At Badger—On westward freight trains, immediately after rear of train has passed east switch of the eastward siding, the air hose between the caboose and the helper engine will be separated, after turning angle cocks, but the coupling pin will not be lifted until rear of train has reached a point approximately 500 ft. west of the east switch of eastward siding. Conductor will personally see that coupling pin is lifted on caboose and that signal is given to engineer of helper engine, who will allow slack to run out gradually. The speed of train to be reduced to twelve (12) MPH until helper engine has been cut off and signal 14(b) given by helper engineer. After separating from caboose, the helper engine will be stopped promptly.

### 14. Register Stations—

Pasco—Yakima.

### 15. Clearance Exceptions—

AT S. P. & S. JCT.:—Trains from S. P. & S. entering N. P. Third Subdivision will not require clearance.

## FOURTH SUBDIVISION.

### MAIN (SUNNYSIDE) LINE

- | 1. Speed Restrictions—                         | Maximum Speeds Permitted                               |
|------------------------------------------------|--------------------------------------------------------|
| Zone—Between                                   | Engines Classes<br>W-3 and Lighter<br>heavier than W-3 |
| Gibbon and Parker .....                        | 30 40                                                  |
| Over street crossings within corporate limits: |                                                        |
| Sunnyside, Granger and Zillah .....            | 30 MPH.                                                |
- Bridge and Engine Restrictions—**
    - At Grandview—Engines heavier than Class Q-3 and S-4 not permitted on White River Lbr. Co. tracks Nos. 1 and 2.
    - At Sunnyside—Engines classes W-3 and heavier not permitted on team track east of crossover.
    - At Granger—Brick Yard Spur can be used by engines Class W-3, only as far as U. P. crossing.
    - Bridge 52, between Lichty and Sunnyside. Engines Classes A-4, A-5, Z-5, Z-6, Z-7 and Z-8.....10 MPH.
    - Engines Classes A-2, A-3, W-3, W-5, and Z-4.....30 MPH.
  - At Zillah—Main and yard tracks used jointly by U.P. and N.P.** N.P. crews will check U.P. register before occupying U.P. tracks, and while occupying U.P. tracks will be governed by U.P. RR., Rule 98.
  - Between Donald and Parker—U.P. Crossing Gantlet over U.P. bridge (Yakima River), used jointly by U.P. and N.P., is governed by automatic interlocking home signals and trains must move through at restricted speed.** Normal indication of westward home signal is "stop" and when switches are lined for N.P. track should indicate "clear". Normal indication of eastward home signal is "stop", but if the U.P. circuit is not occupied will change to indicate "clear" on approach. After passing this signal indicating "clear", eastward trains must stop and line switches before crossing U.P. tracks. If home signal does not clear after one minute and there is no other train between the interlocking home signals, trains will proceed under flag protection between the home signals governing gantlet track. Release box is located at end of bridge. There are two switches to be lined by N.P. trains at the east end of the bridge. Normal position of switches is for U.P.
  - Extra Trains—Between Gibbon and Parker will run via Third Subdivision unless otherwise instructed by train order.**
  - Register Stations—**  
Gibbon.
  - Register Exceptions—**  
Gibbon, westward trains will register by Form 608.

## FIFTH SUBDIVISION.

### (FORT SHERMAN BRANCH)

- | 1. Speed Restrictions—                                                 | Maximum Speeds Permitted |
|------------------------------------------------------------------------|--------------------------|
| Zone—Between                                                           |                          |
| Coeur d'Alene and Hauser.....                                          | 20 MPH.                  |
| Trains handling wrecking cranes 41, 42 and 43 and pile driver 25 ..... | 15 MPH.                  |
- Bridge and Engine Restrictions—**
    - Engines Class S-4 and lighter, only, permitted.
    - Wrecking cranes 44, 45, 46, 47 and 48 not permitted.
    - Bridge 10, over S. I. Ry. between Post Falls and Blackwell .....
    - Wrecking cranes 41, 42 and 43 and pile driver 25 .....
    - Heavy Car Restrictions—
    - Cars with total weight exceeding 214,000 pounds not permitted.
    - Cars with total weight exceeding 169,000 pounds must be separated from each other and from engine or tender with one car 40 ft. long with total weight less than 169,000 pounds.
  - At Coeur d'Alene—All trains and engines stop and flag over Sherman Ave.**
  - Register Stations—**Hauser.
  - Clearance Exceptions—**  
At Coeur d'Alene trains will not require clearance.

## SIXTH SUBDIVISION. (PALOUSE AND LEWISTON BRANCH)

1. Speed Restrictions—	Maximum Speeds Permitted	
Zone—Between	Freight and mixed	Passenger
Marshall and Howell, ..... when engines heavier than Q-4 are used or freight equipment handled .....	40	45
Engines classes W-3 and W-5 .....	40	40
Belmont and Farmington .....	15	15
Engines class W, around curves between Belmont and Hayfield .....	8	8
Howell and Kendrick, Mountain Grade— Descending .....	20	30
Ascending .....	30	30
Kendrick and Arrow .....	40	45
when engines heavier than Q-4 are used, or freight equipment handled....	....	40

Advance-warning signs are located 1500 feet in advance of  
Reduce speed signs.

Spangle—Over Third Street .....	25 MPH.
Garfield—Over street crossings .....	20 MPH.
Pullman—Over Kamiaken Street .....	20 MPH.
Moscow—Over street crossings .....	12 MPH.
Elsewhere within corporate limits.....	20 MPH.

See also Mountain Grade Operation.

### 2. Bridge and Engine Restrictions—

Engines Classes A-2 to A-5 inc. and Z-5 to Z-8 inc. not permitted, on or west of Bridge 0.1, located 700 feet west of the wye switch at Marshall.

Engines heavier than Class W-5 not permitted between Marshall and Arrow.

Engines heavier than Class W, and wrecking cranes 45, 46, 47 and 48 not permitted between Belmont and Farmington.

Bridge 28, between Rosalia and Donahue. Engines Classes W-3, W-5 .....

30 MPH.

Bridges, 58 between Garfield and Palouse and 102, 102-1, and 102-2 between Troy and Bovard, engines classes Q-5, Q-6, W-3 and W-5 .....

20 MPH.

Bridges, 105 between Troy and Bovard and 107 and 107-1 between Bovard and Kendrick—

Engines classes Q-5, Q-6, W-3 and W-5.....

10 MPH.

Wrecking cranes 41, 42, 43 and 44, and pile driver 25.....

15 MPH.

Engines classes W, W-1, W-2 and W-4.....

20 MPH.

Bridge 107-2 between Bovard and Kendrick. Engines Classes W-3 and W-5 .....

20 MPH.

Bridge 123, between Juliaetta and Arrow. Engines Classes Q-5, Q-6, W-3 and W-5 .....

20 MPH.

Wrecking cranes 45, 46, 47 and 48;

Bridges 28, 58, 107-2 and 123.....

15 MPH.

Bridges 102, 102-1, 102-2, 105, 107, 107-1, cranes must be spaced with one empty car between engine and crane and not exceed .....

15 MPH.

#### Heavy Car Restrictions:

Over bridges between Troy and Kendrick: Cars with total weight exceeding 214,000 pounds not permitted except on authority of superintendent.

Cars less than 30 ft. long with total weight exceeding 169,000 pounds must be separated from each other and from engine or tender with one car 40 ft. long with total weight not over 169,000 pounds.

Other bridges: Trains handling cars exceeding 214,000 pounds total weight, or cars less than 30 ft. long with total weight exceeding 169,000 pounds when coupled in groups or next to engine or tender must not exceed over,

Bridge 28 .....

30 MPH.

Bridges 56 and 58 .....

20 MPH.

Bridge 123 .....

10 MPH.

At Palouse—Engines heavier than class W-2 not permitted on switches to tracks 2 and 3 W. I. & M. yard.

Engines Classes W-3 and W-5 permitted on following tracks only:

Marshall .....	Tracks 1, 2, 5, 6, and wye.
Spangle .....	Siding and elevator spur.
Plaza .....	Siding.
Rosalia .....	Siding, east 500 feet of house track, pea plant spur.
Oakesdale .....	Siding, east 500 feet and west 500 feet of house track, pea plant track.
Belmont .....	Siding, west 300 feet of house track.
Garfield .....	All tracks.
Cedar Creek .....	Spur.
Palouse .....	Siding, house track, GN Transfer, No. 1 of WI&M Transfer, west 500 feet of elevator track, east 150 feet of River Track.
Fallon .....	Siding.
Pullman .....	Siding, Nos. 1 and 2, elevator and coach tracks, house, engine, oil, machinery and Doten spurs.
Pullman Jct. ....	Wye and Seventh Subdivision main tracks within yard limits and east 300 feet and west 300 feet of Tracks Nos. 1 and 2.
Sunshine .....	West 300 feet of siding.
Moscow .....	Siding, transfer, team, east 500 feet of College spur, long spur west of stock-yards and west 200 feet of house track.
Troy .....	Siding, house track, oil and Latah spurs.
Bovard .....	Siding.
Kendrick .....	Siding, house, and elevator track.
Juliaetta .....	Siding.
Arrow .....	All tracks.

3. At Marshall—Train order signal does not govern trains moving via Sixth Subdivision or SP&S.  
Sixth Subdivision trains will use whistle signal—Rule 14(t) or (u) as occasion requires.  
Second Subdivision instructions govern.
4. At Farmington—Normal position of gate at U. P. Crossing is locked against N. P. trains when not in use.
5. At Palouse—W. I. & M. Ry. will deliver cars to N. P. Ry. on track No. 1. Delivery to W. I. & M. Ry. will be made on river track by eastward N. P. trains, and on either track 2 or 3 by westward trains.
6. At Whelan—Impaired side clearance between main track and siding, and between siding and warehouse.
7. At Pullman—Time of first class trains applies at passenger station. Water supply limited to No. 314 and local trains except in emergency.
8. At Moscow—N. P. trains are authorized to cross over U. P. main track in movements to and from the G. N. interchange track; governed by U. P. RR., Rule 93.  
A train register is located in the U. P. freight station by which N. P. crews must check against U. P. first-class trains before making cross-over movement.
9. Yard Limits—  
Tracks between yard limit signs east of Pullman and west of Pullman Jct. operated as one yard.
10. Sidings, at Spangle, North Pine, Rosalia, Donahue, McCoy, Eden, Whelan, Pullman, Sunshine, Troy, Kendrick and Juliaetta are also used as industrial tracks. At Arrow, used for storage and interchange.
11. Camas Prairie Clearance—  
The following governs the issuing of Camas Prairie R. R. and Northern Pacific Ry. train orders and clearances to Northern Pacific trains, operating between Arrow and Lewiston over Camas Prairie Railroad.  
Train orders and clearances must bear the heading of the respective railways. In case Northern Pacific stationery is used by the Camas Prairie, train orders and clearances must be stamped "Camas Prairie Railroad." This in order to avoid any possible confusion in train orders and clearances of the respective railways.



Camas Prairie train orders must not be issued to Northern Pacific trains at any station between Marshall and Arrow, except Pullman, and Northern Pacific train orders must not be issued to Northern Pacific trains between Lewiston and Arrow, except at Lewiston or East Lewiston.

In case of failure of means of communication between Pullman and Lewiston, and during the time no dispatcher on duty at Lewiston, operator at Pullman may issue Camas Prairie clearance and operators at Lewiston, or East Lewiston, may issue Northern Pacific clearance in accordance with Rules 83(B), and 221(C) endorsing clearance Wire Failure but in such cases train crews will require a Camas Prairie clearance westward, or a Northern Pacific clearance eastward at Arrow.

12. **Mountain Grade Operation**—Between Kendrick and Howell. Passenger trains must not exceed any one mile in two (2) minutes, freight trains any one mile in three (3) minutes descending mountain grade. Trains will not exceed thirty (30) MPH on ascending grade.

Test of air brakes on westward freight or mixed trains as prescribed by Air Brake Rule 35 must be made at Howell. The air brakes must be charged to a maximum of 90 pounds and conductors must know by caboose gauge that this pressure is obtained before making terminal test. Air test card to be filled out and deposited in box provided before leaving Howell. Enginemen will maintain a working pressure of 90 pounds Howell to terminal. Retaining valve handles must be turned up on all cars after terminal test has been made at Howell.

Stop at Kendrick to turn down retaining valve handles and cool wheels.

The normal position of the train order signal at Troy is "Stop" for westward trains when operator is on duty and will not be changed to indicate proceed except for westward trains to pass when block is clear and there are no orders. The operators at Troy and Kendrick will each keep a record of when westward trains pass Troy and Kendrick. The operator at Kendrick will not report westward trains clear at that station until they are into clear on the siding or the rear of the train has passed telegraph office 300 feet. If communication fails operator at Troy may issue clearance card endorsed "Means of communication have failed, proceed when preceding train has been gone thirty (30) minutes." When no operator on duty westward trains will register and will follow preceding train not less than thirty (30) minutes.

13. **Register Stations**—  
Marshall, Interlocking Station.  
Pullman.

Pullman Jct., on Tuesdays, Thursdays and Saturdays, unless otherwise instructed, No. 311 and No. 312 will register by Form 608, leaving ticket in box on phone booth.

Troy for westward trains, when no operator on duty. To be used for spacing trains.

Arrow.

14. **Register Exceptions**—  
At Marshall interlocking station, all trains will register by Form 608, and will be furnished check of register by train order or Form 602 by operator.

15. **Clearance Exceptions**—  
At Pullman, all westward, and at Lewiston or East Lewiston, all eastward N. P. trains using C. P. track between Arrow and Lewiston must secure both N. P., and C. P. clearances.

## SEVENTH SUBDIVISION.

(GENESEE BRANCH)

1. **Speed Restrictions**—  
Zone—Between  
Maximum Speeds Permitted
- |                                                                 |         |
|-----------------------------------------------------------------|---------|
| Pullman Jct. and Staley .....                                   | 20 MPH. |
| Staley and Johnson, except<br>engines Class T and heavier ..... | 15 MPH. |
| Johnson and Colton .....                                        | 20 MPH. |
| Colton and Genesee, except<br>engines Class T and heavier ..... | 15 MPH. |
| Wrecking cranes 41, 42, 43 and 44 and pile driver 25..          | 15 MPH. |
| At Genesee—on wye tracks .....                                  | 5 MPH.  |
2. **Bridge and Engine Restrictions**—  
Engines class W-3 and heavier, and wrecking cranes 45, 46, 47 and 48 not permitted.
3. **Clearance Exception**—  
Clearance issued at Pullman will also apply at Pullman Jct.
4. **Sidings**, except at Colton, are also used as industrial tracks.

## EIGHTH SUBDIVISION.

(WASHINGTON CENTRAL BRANCH)

1. **Speed Restrictions**—  
Zone—Between  
Maximum Speeds Permitted
- |                                                                 | Freight<br>and mixed | Passenger<br>Steam | Motor |
|-----------------------------------------------------------------|----------------------|--------------------|-------|
| Cheney and Odair .....                                          | 35                   | 35                 | 40    |
| Davenport and Eleanor .....                                     | 10                   | 10                 | 10    |
| MP 117 and MP 121 (between<br>Bacon and Adco) .....             | 10                   | 10                 | 10    |
| Odair and Connell (except be-<br>tween MP 117 and MP 121) ..... | 20                   | 20                 | 20    |
- Advance-warning signs are located 1500 feet in advance of Reduce speed signs.
2. **Bridge and Engine Restrictions**—  
Engines heavier than Class W-2 not permitted, except between Cheney and Coulee City engines class W-3 and lighter permitted. Between Davenport and Eleanor, engines heavier than Class S-4 not permitted.  
Bridge 59 between Adco and Wheeler wrecking cranes 45, 46, 47 and 48 ..... 15 MPH.  
Engine Class W-3 permitted only on following tracks between Cheney and Coulee City:
- |                        |                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| Medical Lake .....     | All tracks, except Quarry Spur.                                                                                        |
| Deep Creek .....       | Sand Spur.                                                                                                             |
| Hite .....             | Siding.                                                                                                                |
| Reardan .....          | All tracks, except Standard Oil and<br>Grange spurs.                                                                   |
| Mondovi .....          | Siding.                                                                                                                |
| Davenport .....        | Siding, house; west 500 feet of elevator<br>track, wye and 500 feet of Seattle<br>Branch main track.                   |
| Rocklyn .....          | Siding.                                                                                                                |
| Telford .....          | Spur.                                                                                                                  |
| Creston .....          | Siding, house track.                                                                                                   |
| Wilbur .....           | East and west 500 feet house track, east<br>and west 500 feet elevator track, Grain<br>Growers and Standard Oil spurs. |
| Govan .....            | Siding.                                                                                                                |
| Almira .....           | East and west 300 feet house track, east<br>and west 300 feet elevator track.                                          |
| Hartline .....         | East and west 300 feet house track, east<br>and west 300 feet elevator track.                                          |
| Odair .....            | Inside wye tracks.                                                                                                     |
| U. S. Govt. Yards..... | Main track and No. 1.                                                                                                  |
| Coulee City .....      | All tracks east of passenger station.                                                                                  |
3. **At Cheney, Odair and Coulee City**—Within yard limits, trains Nos. 315 and 316 will observe Rule No. 93 the same as is required of second class and inferior trains.

4. **At Cheney**—Trains will not pass signal located on east leg of wye until main track switch is lined for eastward movement and will be governed by Rule 509(A). When signal indicates "Proceed", Rule No. 513 does not apply.
5. **At Odair**—Normal position of main track switches is for the through route to Connell via the short leg of the wye.
6. **At Adrian**—Normal position of switch of N. P. connection at east end of the G. N. siding is for the siding. G. N. track No. 2 will be used for interchange of cars.
7. **Sidings**, except at Davenport, Creston, Bacon, and Ritell are also used as industrial tracks.
8. **Register Stations**—  
Cheney. Connell. Coulee City.
9. **Register Exceptions**—At Cheney, trains Nos. 315 and 316 will register by form 608.
10. **Derail Switches on main track**—  
Eleanor.....Ninety feet east of east switch.

### NINTH SUBDIVISION. (WALLA WALLA BRANCH)

1. **Speed Restrictions**—  

Zone—Between	Maximum Speeds Permitted		
	Freight and mixed	Steam	Motor
Pasco and Walla Walla .....	35	40	45
Walla Walla and Dayton .....	30	35	35
Tracy Jct. and Tracy.....	20	20	20
On sharp curves and bridges between MP 75 and MP 84, (between Dixie and Coppei)....	20	20	20
<b>When handling pile driver or locomotive crane—</b>			
Ainsworth Jct. and Walla Walla .....	20 MPH.	.....	.....
Walla Walla and Dayton .....	15 MPH.	.....	.....

Advance-warning signs are located 1500 feet in advance of Reduce speed signs.

**At Pasco**—All movements over passenger station tracks, or approach to and over crossovers and switches leading to these tracks, at restricted speed.

**At Walla Walla**, through city limits .....12 MPH.

**At Dayton**, 10 MPH west of and 15 MPH east of Touchet River Bridge.

2. **Bridge and Engine Restrictions**—  
Engines Class T not permitted.  
Engines Classes Q-4 and heavier, not permitted, except Class Q-4 engines 2177 to 2191, inc., and 2194 to 2207, inc., are permitted. Between Waitsburg Jct. and Dayton, U. P. Engines 730 to 765, inclusive, and 1745 to 1760, inclusive, permitted.  
**Bridge 3**, between Ainsworth Jct. and Burbank. Doubleheader engines classes Q-1, Q-3 and Q-4, and wrecking cranes 41 to 48 inc., and pile driver 25 not permitted.  
Engines Classes Q, S-4 and single header classes Q-1, Q-3 and Q-4 ..... 8 MPH.  
Lighter classes .....20 MPH.  
Diesel engines, single header, 1000 HP and lighter.....10 MPH.  
**Heavy Car Restrictions**—  
Cars with total weight exceeding 214,000 pounds, not permitted, except on authority of superintendent.  
Cars with total weight exceeding 169,000 pounds must be separated from each other and from engine or tender with one car 40 ft. long with total weight not over 169,000 pounds.  
**Bridge 3**—Trains handling such cars ..... 8 MPH.

3. **Dual Control Switches**—  
At Pasco, switch at east leg of wye connecting with SP&S is normally lined for west leg of wye and may be electrically operated with remote control, by the operator at Pasco.  
**At Ainsworth Jct.**—Be governed by current SP&S Ry instructions.
4. **At Attalia**—Derail on dead leg of wye adjacent to Eleventh Sub-division main track. Trains may expect to find this track blocked with cars.
5. **At Walla Walla**—Within yard limits, trains Nos. 347 and 348 will observe Rule 93 the same as is required of second class and inferior trains.  
At Main Street Crossing, highway traffic lights installed. Before train or engine movements are made over this crossing traffic lights must be set at stop. Traffic lights are controlled by switches located in metal boxes on traffic signal post on either side of street and north of track. After movement is completed traffic signal lights cleared by operating switch on traffic light post on either side of the crossing. Traffic alarm gong installed at this crossing. When this gong is ringing Fire Department or other emergency run is being made, and trains and engines will not obstruct or pass over crossing until bell has stopped ringing.  
Trains and yard engines will stop and flag over the first street west of Main street and approach other crossings at restricted speed.
6. **Yard Limits**—Tracks between yard limit signs east of Walla Walla and west of Tracy Jct., operated as one yard.
7. **Sidings**, except at Burbank and Two Rivers are also used as industrial tracks.
8. **Register Stations**—  
Pasco (To apply at Ainsworth Jct.) Attalia, Eureka, Walla Walla, Waitsburg Jct., Dayton.
9. **Clearance Exceptions**—  
At Pasco—Westward trains secure clearance to apply at Ainsworth Jct.  
Trains from Eleventh Subdivision will secure clearance at Wallula to apply at Attalia.  
At Walla Walla—Unless otherwise directed, all trains must secure clearance.  
Westward U. P. trains will secure clearance at Waitsburg U. P. station to apply at Waitsburg Jct.
10. **Derail Switches on Main Track**—  
Kibbler (Between Harbert and Tracy)—Tracy.

### TENTH SUBDIVISION. (EUREKA BRANCH)

1. **Speed Restrictions**—  

Zone—Between	Maximum Speeds Permitted
Eureka and Pleasant View .....	15 MPH.
2. **Bridge and Engine Restrictions**—  
Engines heavier than Class Q-3 not permitted, except Class Q-4 engines 2177 to 2191, inc. and 2194 to 2207, inc., are permitted.
3. **At Pleasant View**—Normal position of west switch is for elevator track.
4. **Register Stations**—Eureka.
5. **Clearance Exceptions**—  
At Pleasant View, trains will not require clearance.



# ELEVENTH SUBDIVISION.

## (PENDLETON BRANCH)

1. Speed Restrictions— Zone—Between	Maximum Speeds Permitted		
	Freight and mixed	Passenger Steam	Motor
Attalia and MP 7 .....	30	35	45
MP7 and Apex or Duroc, Mountain Grade; Descending	20	30	30
Ascending..	30	30	30
Apex and Pendleton .....	30	35	45
Smeltz and MP 8 (two miles west of Wayland) .....	25	25	25
MP 8 and Athena .....	15	15	15
Attalia and Pendleton, trains handling pile driver or locomotive crane .....	20 MPH.		

Advance-warning signs are located 1500 feet in advance of Reduce speed signs.

### 2. Bridge and Engine Restrictions—

Engines Classes heavier than T and Q-3 not permitted, except Class Q-4 engines 2177 to 2191, inc., and 2194 to 2207, inc., are permitted.

Bridges 7 to 17 inclusive, between Hunt and Van Sycle—

Engines Classes T, Q-1, Q-3 and Q-4 and wrecking cranes 41, 42, 43, and 44, and pile driver 25.....10 MPH.

Engines Classes Q and S-4 .....20 MPH.

Wrecking cranes 45, 46, 47 and 48; Bridge 4.....15 MPH.

Not permitted on Bridge 7 or beyond.

### Heavy Car Restrictions—

Cars with total weight exceeding 214,000 pounds not permitted except on authority of superintendent.

Cars with total weight exceeding 169,000 pounds must be separated from each other and from engine or tender with one car 40 ft. long with total weight not over 169,000 pounds.

3. At Attalia—Derail on dead leg of wye adjacent to Eleventh Subdivision main track. Trains may expect to find this track blocked with cars.
4. At Wallula—Tracks of U. P. and N. P. used jointly between Wallula east switch and passenger station. Trains will be governed by U. P. RR. Rule 93.
5. At Athena—256 ft. of connection to U. P. and Preston-Shaffer elevator track to clearance point east end and main track involved, joint with U. P. governed by Rule 93.
6. At U. P. Connection and at Pendleton—Movements onto and over U. P. R. R. tracks governed by U. P. current rules and instructions of the Transportation Department, except as specifically modified by Special Instructions and Rules and Instructions Governing Operation of Trains by Centralized Traffic Control System.
7. Yard Limit—Tracks between yard limit signs east of Attalia and west of Hunt operated as one yard.
8. Sidings, except at Hunt and Apex are also used as industrial tracks.

9. Mountain Grade Operation Between Apex or Duroc and M. P. 7—  
Test of air brakes on eastward freight or mixed trains as prescribed by Air Brake Rule 35 must be made before leaving Helix or Duroc. The air brakes must be charged to a maximum of ninety (90) pounds, and conductors must know by caboose gauge that this pressure is obtained before making terminal test. Air test card to be left with operator at Helix or deposited in box provided at Duroc before leaving either station. Enginemen will maintain a working pressure of 90 pounds Helix or Duroc to terminal. Retaining valve handles must be turned up on all cars after terminal test has been made.

Stop at M. P. 7 to turn down retaining valve handles, cool wheels, and inspect train.

### 10. Register Stations—

Attalia, Smeltz, Athena, Pendleton.

### 11. Clearance Exception—

Clearance issued at Pasco will also apply at Attalia. At Wallula, unless otherwise directed, eastward trains must secure clearance.

### 12. Main Track—Derail.

Smeltz (Athena Branch).

# TWELFTH SUBDIVISION.

## (SNAKE RIVER BRANCH)

- | 1. Speed Restrictions—                                                       | Maximum Speeds Permitted |
|------------------------------------------------------------------------------|--------------------------|
| Zone—Between                                                                 |                          |
| Riparia and Snake River Jct.....                                             | 25 MPH.                  |
| Trains handling locomotive crane or pile driver, except pile driver 25 ..... | 20 MPH.                  |
| Trains handling wrecking cranes 41, 42, 43 or 44 and pile driver 25 .....    | 15 MPH.                  |
| Through Tunnel No. 1, seven miles east of Windust.....                       | 15 MPH.                  |
| At Riparia, engines using wye .....                                          | 15 MPH.                  |
| East of M. P. 14 and between M. P. 38 and 39, falling rocks may be found.    |                          |
2. Bridge and Engine Restrictions—Engines heavier than Class W, and wrecking cranes 45, 46, 47 and 48 not permitted.
  3. At Riparia, normal position crossing gates is for U. P. trains.
  4. Sidings, except at Perry and Windust are also used as industrial tracks.
  5. Register Stations—  
Riparia—Pasco.







**TONNAGE RATINGS—FREIGHT ENGINES—Continued.**

SUB-DIVISION	DISTRICT	Ruling Grade	CLASS OF ENGINE						
			W-3	W-5	W	W-1 W-2	S-4	Q-1	Q-3 Q-4
Seventh Westward	Pullman Jct. to Johnson.....	0.9			1400	1550	1100	925	1080
	Johnson to Colton.....			1075	1225	775	670	760	
	Colton to Genesee.....	0.3		2100	2250	1800	1500	1700	
Seventh Eastward	Genesee to Colton.....			2100	2250	1800	1500	1700	
	Colton to Johnson.....	1.1		1200	1350	900	760	860	
Eighth Westward	Johnson to Pullman Jct.....								
	Cheney to Medical Lake.....	1.1	1945	2095	1200	1350	900	760	
	Medical Lake to Creston.....	1.2	1660	1865	1150	1300	805	680	
	Creston to Almira.....		2600		1800	2000	1200	1015	
	Almira to Hanson.....	1.2	1660	1865	1100	1250	775	670	
	Hanson to Odair or Coulee City.....								
Davenport to Eleanor.....		1.0		2330			975	825	
	Odair to Connell.....	0.7		3025	1850		1350		

Eighth Eastward	Coulee City to Hartline.....	1.0	2230	2330	1350	1450	975	825	935
	Hartline to Creston.....	1.2	1660	1865	1150	1300	805	680	770
	Creston to Medical Lake.....	1.0	2230	2330	1350	1450	975	825	935
	Medical Lake to Cheney.....	0.9	2450	2550	1450	1550	1145	970	1100
	Eleanor to Davenport.....	0.9						975	825
	Connell to Odair.....	1.0			1400	1500	950	825	935
	Pasco to Attalia.....	0.3					1800	1500	1650
	Attalia to Eureka.....	1.1					1000	760	860
	Eureka to Climax.....	1.6					750	550	610
	Climax to Walla Walla.....	1.0					1000	760	935
Ninth Westward	Walla Walla to Minnick.....	1.6					750	550	610
	Minnick to Dayton.....	0.9					1145	900	1050
	Walla Walla to Tracy.....	1.9					525	350	400
	Dayton to Minnick.....	1.6					750	550	610
	Minnick to Walla Walla.....								
	Walla Walla to Eureka.....	1.0					1000	760	935
	Eureka to Pasco.....								
	Tracy to Walla Walla.....								
	Hunt to Apex.....	2.2						350	
	Apex to Pendleton.....	1.4						850	
Eleventh Westward	Smeltz to Athens.....	2.2					350		
	Pendleton to Apex.....	1.6					550		
	Apex to Hunt.....								
	Athens to Smeltz.....	1.7					695		
Tenth Westward	Eureka to Pleasant View.....	1.1					1000		
	Pleasant View to Eureka.....	0.5					1500		



# MAXIMUM CLEARANCES.

**Note**—Length of load 52 feet.  
Heights and widths in table allow 9 inches clearance.

Table is based on open car loading equally divided on either side of center line of car.

SUBDIVISION.	LIMIT OF LOAD MEASUREMENT.											Governing Structure
	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	Max. Height	Max. Width	
1st Subdivision...	20'2"	20'0"	19'9"	19'6"	19'3"	19'0"	18'9"	18'7"	18'4"	20'2"	11'6"	Cabinet Tunnel.
1st Subdivision...	19'0"	18'11"	18'10"	18'8"	18'5"	18'2"	17'11"	17'9"	17'6"	19'0"	11'6"	Granite Tunnel.
2nd Subdivision...	22'3"	21'8"	21'8"	21'8"	20'7"	20'7"	20'7"	20'7"	20'7"	22'3"	11'6"	Over Crossing Marshall.
3rd Subdivision...	21'2"	21'2"	21'2"	21'2"	21'2"	21'2"	21'1"	20'11"	20'10"	21'2"	11'6"	Columbia River Bridge.
4th Subdivision...	21'4"	21'4"	21'4"	21'4"	20'11"	20'5"	19'11"	19'8"	19'4"	21'4"	11'6"	U. P. Bridge, Yakima River.
5th Subdivision...											11'6"	
6th Subdivision...	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	11'6"	Wire Crossing.
7th Subdivision...	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	11'6"	Wire Crossing.
8th Subdivision...	21'7"	21'7"	21'7"	21'7"	21'7"	21'7"	21'7"	21'7"	21'7"	21'7"	11'6"	G. N. Over Crossing, Bet. M. P. 13&14.
9th Subdivision...	18'6"	18'6"	18'6"	18'6"	18'6"	18'6"	18'6"	18'6"	18'6"	18'6"	11'6"	Bridge No. 3, Snake River.
10th Subdivision...	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	11'6"	Wire Crossing.
11th Subdivision...	21'3"	21'3"	21'3"	21'3"	21'3"	21'3"	21'3"	21'3"	21'3"	21'3"	11'6"	Wire Crossing.
12th Subdivision...	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	11'6"	Bridge No. 39.
13th Subdivision...	21'10"	21'9"	21'6"	21'2"	20'10"	20'7"	20'3"	20'1"	19'11"	21'10"	11'6"	Wire Crossing.
13th Subdivision...	19'3"	19'3"	19'3"	19'3"	19'3"	19'3"	19'3"	19'3"	19'3"	19'3"	11'6"	Tunnel No. 1.
13th Subdivision...											11'6"	Overhead Flume.

# MAXIMUM CLEARANCES—Continued.

SUBDIVISION.	LIMIT OF LOAD MEASUREMENT											Governing Structure
	HEIGHT ABOVE TOP OF RAIL											
	8 ft. 6 in. Wide	9 ft. Wide	10 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	Max. Height	Max. Width		
1st Subdivision...	18'1"	17'10"	17'6"	17'2"	17'1"	16'10"	16'6"	16'3"	20'2"	11'6"	Cabinet Tunnel.	
1st Subdivision...	17'4"	17'1"	16'10"	16'7"	16'6"	16'3"	16'0"	15'0"	19'0"	11'6"	Granite Tunnel.	
2nd Subdivision...	20'7"	20'7"	20'7"	20'7"	20'7"	20'7"	20'7"	20'7"	22'3"	11'6"	Over Crossing Marshall.	
3rd Subdivision...	20'9"	20'8"	20'7"	20'6"	20'5"	20'5"	20'4"	20'3"	21'2"	11'6"	Columbia River Bridge.	
4th Subdivision...	19'1"	18'10"	18'7"	18'4"	18'3"	18'1"	17'10"	17'7"	21'4"	11'6"	U. P. Bridge, Yakima River.	
5th Subdivision...										11'6"		
6th Subdivision...	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	11'6"	Wire Crossing.
7th Subdivision...	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	11'6"	Wire Crossing.
8th Subdivision...	21'7"	21'7"	21'7"	21'7"	21'7"	21'7"	21'7"	21'7"	21'7"	21'7"	11'6"	G. N. Over Crossing, Bet. M. P. 13-14.
9th Subdivision...	18'6"	18'6"	18'6"	18'6"	18'6"	18'6"	18'6"	18'6"	18'6"	18'6"	11'6"	Bridge No. 3, Snake River.
10th Subdivision...	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	11'6"	Wire Crossing.
11th Subdivision...	21'3"	21'3"	21'3"	21'3"	21'3"	21'3"	21'3"	21'3"	21'3"	21'3"	11'6"	Wire Crossing.
12th Subdivision...	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	22'0"	11'6"	Bridge No. 39.
13th Subdivision...	19'9"	19'8"	19'6"	19'0"	18'10"	18'2"	17'7"	16'11"	21'10"	11'6"	Tunnel No. 1.	
13th Subdivision...	19'3"	19'3"	19'3"	19'3"	19'3"	19'3"	19'3"	19'3"	19'3"	19'3"	11'6"	Overhead Flume.

C. E. DORFLER, Assistant Superintendent.  
H. J. McCALL, Assistant Superintendent.  
EVERETT YOUNG, Trainmaster.

G. L. SLORAH, Trainmaster.  
J. O. DAVIES, Trainmaster.

M. W. SCOTT, Trainmaster.  
F. N. SIGMON, Chief Dispatcher.

