



SECTIONAL DRAWING OF 'PACIFIC'

LOCOMOTIVE 'DUCHESS OF ATHOLL'

1. Guard iron.
2. Coupling.
3. Footstep.
4. Buffer.
5. Vacuum brake connection.
6. Lamp iron.
7. Inside piston-valve tail rod casings.
8. Steam pipe casing.
9. Smoke deflector.
10. Smoke box door.

11. Smoke box door lock and clamp.
12. Double chimney.
13. Superheater header.
14. Main steam pipe to cylinders.
15. Double blast pipe.
16. Exhausts from all four cylinders.
17. Exhaust pipe from ejector.
18. Feed-water check valves.
19. Regulator valve at entry to main steam pipe.
20. Regulator shaft (to regulator handle in cab).
21. Safety valves and whistle over firebox (not visible).
22. Firebox stays.
23. Cab.
24. Firebox.
25. Firehole door.
26. Brick arch.
27. Splasher.

28. Sand-box fillers.
29. Mechanical lubricators.
30. Boiler casing.
31. Fire tubes from firebox to smokebox.
32. Piston-valve chest.
33. Cylinder relief valve.
34. Main frame.
35. Piston.
36. Outside cylinder.
37. Cylinder drains.
38. Leading bogie.
39. Walschaerts valve gear.
40. Slide bar.
41. Cross-head.
42. Radius rod.
43. Expansion link.
44. Connecting rod.
45. Eccentric rod.
46. Brake blocks.
47. Coupling rod.
48. Counterweight.
49. Steam sand pipes.
50. Rear end of main frame.
51. Axle box of trailing Bissel truck.
52. Exhaust steam injector.
53. Coal capacity, 10 tons.
54. Water capacity, 4,000 gallons.
55. Water uptake from pick-up scoop.