

B-12 Double Track Mainline with Crossover Left-Hand Turnouts and Leading Junction - General Description

The B-12 layout features a double-track mainline with a crossover using left-hand turnouts and a leading junction, providing a versatile configuration for managing complex train movements. This layout is divided into five blocks (Blocks 1 through 5), facilitating organized control and segmented train operations across various track sections.

There are five signals positioned throughout the layout, strategically placed to manage traffic flow through the blocks, the crossover, and the leading junction. These signals provide essential guidance to ensure safe and coordinated train movements, particularly in areas where trains switch tracks or enter the junction.

The layout includes three main switches, SW-A, SW-B, and SW-C. SW-A and SW-B are left-hand turnouts that create the crossover, allowing trains to shift between the two mainline tracks. SW-C functions as the leading junction switch, enabling trains to enter or exit the mainline ahead of the crossover area. This arrangement supports multiple routing options and enhances operational flexibility by allowing diverse traffic paths within the layout.

In summary, the B-12 layout is designed for efficient and adaptable train routing, combining a leading junction with a left-hand crossover. This configuration is well-suited for rail systems requiring dynamic routing and precise traffic control across a double-track mainline network.