

D-5 Triple Track Mainline with Parallel Crossovers (Left-Hand) Layout Illustration - General Description

The D-5 layout, titled “Triple Track Mainline with Parallel Crossovers (Left-Hand),” features a triple-track mainline that utilizes parallel crossover turnouts for flexible train routing. In a “Triple Track Mainline with Parallel Crossovers” configuration, crossover turnouts are positioned in parallel alignment across multiple tracks, allowing trains to switch between adjacent tracks simultaneously. This left-hand arrangement enables efficient crossovers while maintaining a streamlined flow for train movements.

This layout is divided into six distinct blocks, enhancing control over train movements:

West Side: Blocks 5, 1, and 2

East Side: Blocks 6, 3, and 4

The signaling system includes a total of six signals:

Two single-headed signals, providing basic control over specific points in the layout.

Four double-headed signals, allowing for more complex signal aspects and providing flexibility in train routing options.

The layout includes four left-hand turnouts, strategically placed in parallel configurations:

SW-D and SW-A form the first parallel crossover section, allowing trains to move across adjacent tracks on one side.

SW-C and SW-B create the second parallel crossover, further facilitating track transitions across the mainline on the opposite side.

This layout is ideal for high-traffic rail systems where multiple trains need to shift between tracks in parallel, allowing for efficient and simultaneous transitions. The parallel crossover setup enables trains to move laterally across tracks in an organized fashion, maximizing operational capacity. The combination of blocks, signals, and parallel crossovers ensures controlled and safe train movements, making this layout suitable for scenarios where rapid and frequent track changes are essential for maintaining a high-capacity rail network.