

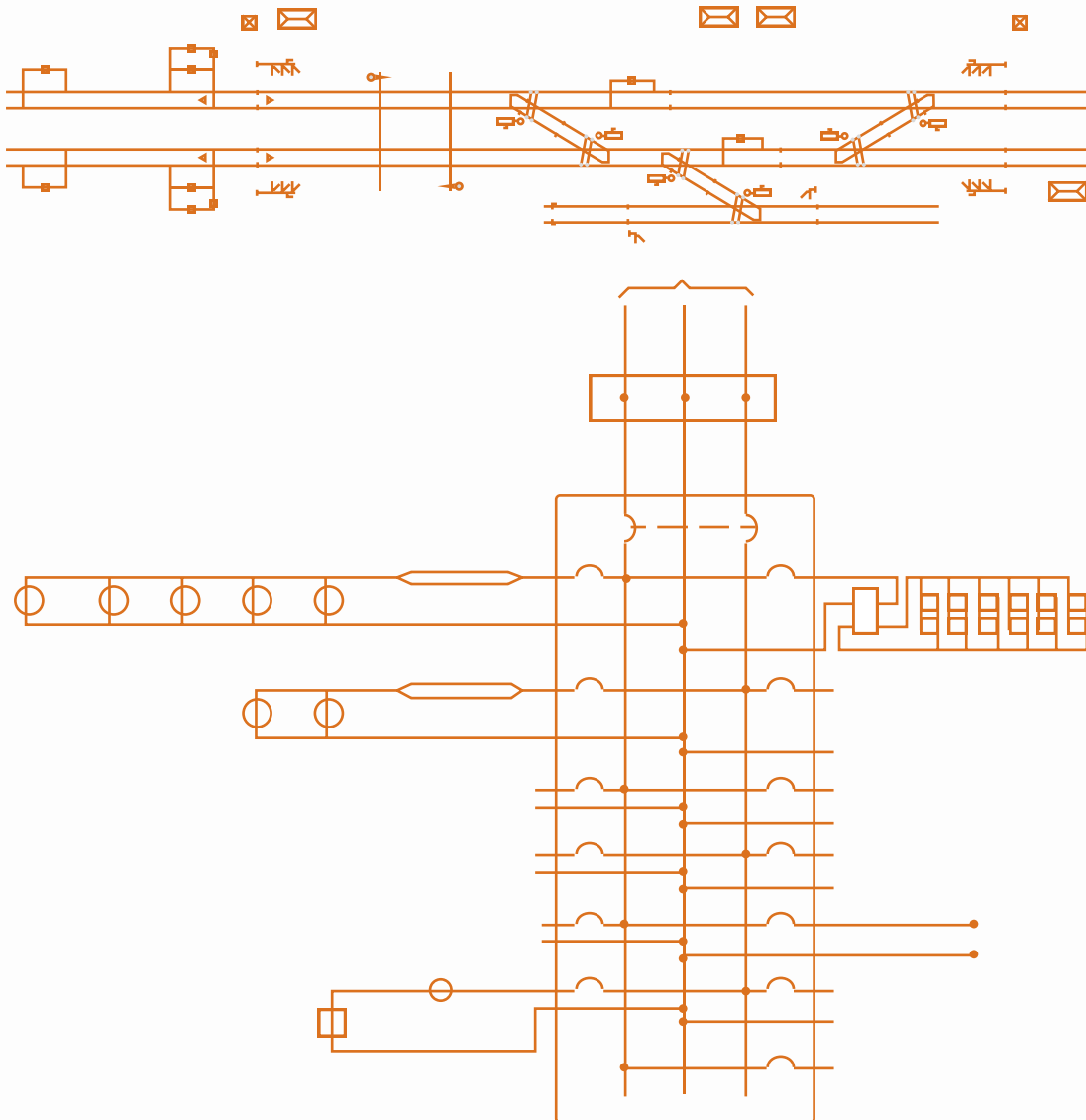


LATEST-GEN CBTC FOR MAJOR CITY RAPID TRANSIT

Datasheet

Project objective

Redesign the signaling system for 10 locations of the rapid transit for its seamless operation on the latest-gen CBTC system. Integrate into the extensive CBTC project to meet deadlines in view of shifting priorities, the lack of a complete and up-to-date schedule, and sudden changes during the main development phase.



Result

The client received a full documentation package including a Book of Plans with all the circuits required to safely implement the interlocking subsystem within the CBTC system. Our activities promoted exceptional safety levels for the designed CBTC system. This allows our client to smoothly replace the 50-year-old conventional signaling system to deliver world-class passenger rail service in congested areas and meet the regions future needs.

Scope of work

- ❖ Implementation of switch and signal control, power distribution
- ❖ Assurance of backup train detection using axle counters
- ❖ Wayside interface subsystem connection for trouble-free wayside object control
- ❖ Assurance of trouble-free CBTC transition during stations' commissioning using Day/Night cabinets
- ❖ Diagnostics functionality for CBTC equipment
- ❖ Programming of wayside controllers to execute interlocking in any signaling scenario
- ❖ Creating documentation for seamless equipment location and installation
- ❖ Datasheets to lead the FAT and SAT stages

Activities

- ❖ Hardware Design & Check
- ❖ CAD & Detailing
- ❖ Power Calculations
- ❖ Software Design & Check
- ❖ Software Simulation
- ❖ FAT & Field Datasheets Creation
- ❖ FAT Engineering Support
- ❖ Onsite Commissioning (projected)

About the project

Technologies

- ❖ Wayside logic controller
- ❖ Axle counting subsystem
- ❖ Interlocking application designer and simulator
- ❖ SCANVAS Editor
- ❖ Bluebeam Revu 2019
- ❖ Bentley MicroStation

Project size

- ❖ 10 Signaling Engineers
- ❖ 3 CAD Engineers

Duration

