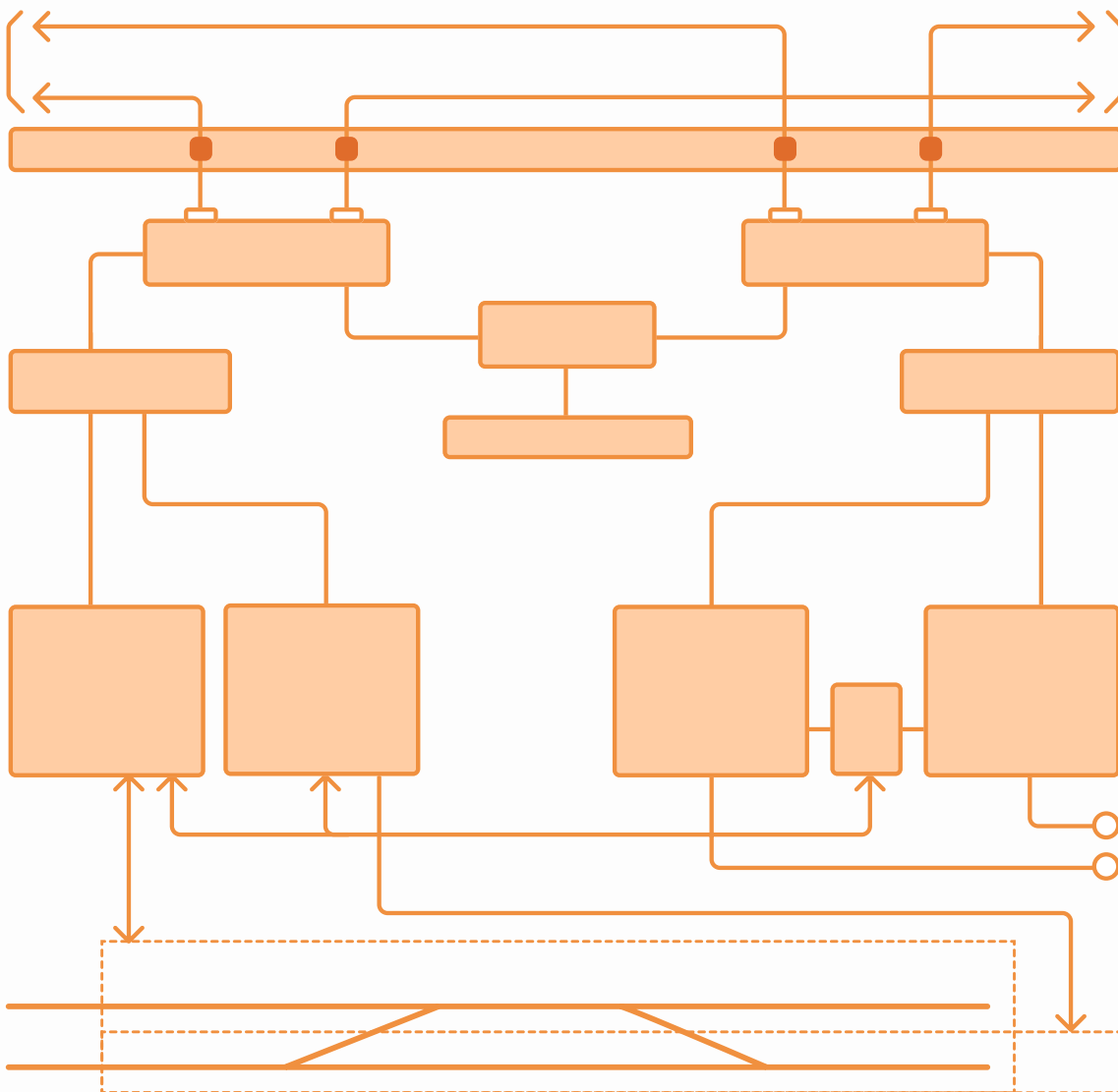


SIGNALIZATION FOR COMMUTER RAILROAD

Datasheet

Project objective

Upgrade signaling system for 14 miles of double track and 3 miles of single track of the loaded commuter railroad while keeping the trains going. All locations are non-electrified territories operating under the automatic block and manual block signal rules.



Result

The signaling system is modernized for all 17 miles (7 stations) of the suburban rail line in adherence with AREMA and FRA guidelines. Modernization contributed to more reliable signaling operations in view of ever-growing passenger traffic, reduction of failures, and increase of safety level.

Scope of work

- ❖ Implementation of AC and DC track circuits. Making power calculations
- ❖ Implementation of 26 grade crossings using audio frequency overlay circuits
- ❖ Implementation of 4 electrically locked siding switches
- ❖ Implementation of 2 electrically locked hand-thrown crossovers
- ❖ Implementation of 1 new holding signal Control Point
- ❖ Implementation of 1 upgraded interlocking, from relay to PLC
- ❖ Revision of 2 tie-ins at existing interlockings
- ❖ Applications development to execute interlocking logic. Simulation of program logic
- ❖ Datasheets development to perform FAT and SAT
- ❖ Hook-up drawings to install the new equipment
- ❖ Onsite support during the commissioning

Activities


- ❖ Hardware design
- ❖ Power calculation
- ❖ Software design
- ❖ ASR calculation
- ❖ SWD Simulation
- ❖ Datasheets development
- ❖ TMI, Hook-ups
- ❖ Remote/On-site support
- ❖ AIS design development

About the project

Technologies

 Microlok II

Project size

 6 people

Duration

