

BART Agreement Number: 6M8213

Approval Date: 07/18/2025

Work Plan A.04-01 Traction Power Substations Engineering Support Contd.

Scope:

- a. Provide technical support on Capital Projects and RR-funded projects as requested by the BART Engineering Manager.
- b. Evaluate design and provide resolution to constructability issues and provide resolution to field engineering issues and changes during construction.
- c. Prepare sketches and plans to help resolve construction issues, field installation changes, and in response to RFI.
- d. Provide reviews and responses to contract submittals, RFI's, and construction issues and maintain logs, test plans, studies, and other documentation.
- e. Review test plans and oversee testing of electrical and traction power systems.
- f. Document field testing and settings in the respective BART-assigned master database.
- g. Review as-built drawings before field installation and surveys, such as Single Line Diagrams (SLD), schematic & wiring diagrams, and conduit & wiring schedules.
- h. Conduct field surveys to determine constructability and maintainability, and to ensure equipment layout is compliant with contract documents, BFS, and local codes.
- i. Develop test procedures and commissioning documents as needed for Traction Power Substations.
- j. Support field troubleshooting, testing, and commissioning, in coordination with Traction Power Maintenance and other stakeholders
- k. Coordinate with engineering and maintenance groups for corrective action to resolve problems.
- l. Assist with technical review of material testing data to support Construction.
- m. Perform site visits and construction observations, including non-revenue hours.
- n. Support installation and commissioning of power quality monitoring equipment; record and review data at locations of interest.
- o. Support locating qualified vendors, ordering parts, and coordinating the procurement process with BART stakeholders.
- p. Support the development of standard assembly drawings and Item Master list for spare parts, and facilitate acquiring quotes.
- q. Develop standard procedures, and training materials and assist training staff and stakeholders.
- r. Other tasks as directed by BART TP/Electrical Engineering Manager.

Prime: TSE/TY Lin

Subconsultants: None

Total Work Plan Value: \$ 786,867