

BART Agreement Number: 6M8182

Approval Date: 04/28/23

Work Plan No. B.18-01 Measure RR Traction Power Engineering Support

Scope:

The consultant will perform the following duties and responsibilities, providing support to projects in BART M&E Traction Power:

- a. Provide technical support on Capital Projects and RR-Funded Projects as requested by BART Engineering Manager.
- b. Evaluate design and field engineering changes during construction.
- c. Support design, installation and testing of Electrical and/or TP equipment.
- d. Document field testing and settings in the respective BART assigned master database.
- e. Review as-built drawings before field installation and/or surveys, such as Single Line Diagram (SLD), schematic & wiring diagrams, and conduit & wiring schedules.
- f. Conduct field surveys to determine constructability, maintainability, and to assure equipment layout is compliant with BFS and local codes.
- g. Develop test procedure documents as needed.
- h. Support field troubleshooting, testing, and commissioning.
- i. Coordinate with engineering and maintenance groups for corrective action to resolve problems.
- j. Assist with technical review of material testing data if requested to support Construction
- k. Perform site visit and construction observations as requested.
- l. Support installation and commissioning of power quality monitoring equipment; record, and review data at locations of interest.
- m. Support locating and ordering parts and equipment repair by BART Maintenance.
- n. Support the development of standard assembly drawings and Items Master list for spare parts; and facilitate acquiring quotes.
- o. Update maintenance procedures and guide maintenance staff in performing procedures.
- p. Develop training materials and assist training staff and stakeholders.
- q. Other tasks as directed by BART Traction Power Manager.

Prime: Ghirardelli

Subconsultants: None

Total Work Plan Value: \$ 255,898