

**BART Agreement Number: 6M8149**

**Approval Date: 03/19/20**

**Work Plan No. B.17-01 – Emergency Lighting Design Support**

**Scope:**

The San Francisco Bay Area Rapid Transit District (BART) is looking for an electrical design engineer who has experience in Power Systems Design, including Uninterruptible Power Supplies (UPS) and Battery Systems. The engineer must be able to read and understand as-built drawings; perform complex electrical engineering calculations; and perform electrical design work for all aspects of power distribution system, including backup power systems, switchboard design, lighting controls, raceway systems, and feeder design. The engineer will be responsible for producing electrical design and documentation as needed to replace existing electrical systems. Specific duties and responsibilities include but are not limited to the following:

- Perform field investigations as needed to support technical design.
- Develop and/or review Single-Line Diagrams, Equipment layout, Conduit Routing for multi-level building and demolition plan, grounding and bonding, and complete technical design drawings.
- Develop and/or review electrical design for all aspects of power distribution system, including backup power systems, switchboard design, lighting controls, raceway systems, and feeder design.
- Meet with BART stakeholders to address design comments.
- Work with BART Maintenance team and/or other departments to understand the scope of work and provide engineering support (including estimates, conceptual design, constructability issues, planning, real estate, sustainability, and customer access).
- Provide engineering support and design verification

**Prime: WSP**

**Subconsultant: None**

**Total Work Plan Value: \$325,495**