BART Agreement Number: 6M8134 Approval Date: 09/01/21

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

2. SCOPE OF SERVICES

A. Blocking System (15ELRR2)

- 1. Support design, installation and testing of H31 and H32 breaker blocking system equipment at KTE/MTW/KFS/CRO/RAS Sectionalizing Stations.
- 2. Support in identifying parts needed for blocking to facilitate acquiring quotes.
- 3. Support field installation and testing of the blocking system with emphasis on uninterrupted service.
- Document testing and results including all associated alarms reporting to the Operational Control Center (OCC).
- 5. Develop training materials and assist training OCC staff in how to restore the system to normal after a faults or other abnormal incident that initiates the circuit blocking system.
- Review blocking and equipment monitoring design drawings before field installation, for example: 34.5kv breaker schematic diagrams, 34.5 breaker cubicle wiring diagrams, SEL 3530 / SEL 2440 wiring diagrams, CO2 cabinet wiring diagrams, annunciator wiring diagrams, conduit and wiring schedules.
- 7. Survey switching and sectionalizing stations to determine blocking panel installation and conduit routing
- 8. Develop blocking system test procedure documents.
- 9. Support testing and commissioning

Prime: HDR

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
SEM Inc	\$283,383	N	Υ

Total Work Plan Value: \$303,743