

BART Agreement Number: 6M8142

Approval Date: 01/17/23

Work Plan No. B.36-01 HMC South End Connector Project Traction Power Design and Construction Oversight

Scope:

This scope of work is as follows as it pertains to support the installation of 400 feet of track at the HMC South End Connector:

1) Traction Power Design

- a) Provide design of traction power third rail system 35%, 95% and 100% submittal
- b) Provide design of traction power feeding arrangements
- c) Provide design of traction power isolation system by sectionalizing switch
- d) Provide design of traction power negative return system
- e) Provide California Professional Engineer stamp and sign off on design detailed in 2.1 a through e

2) Traction Power Field Construction Engineering

- a) Provide field support for installation per design
- b) Provide planning and project coordination support
- c) Provide field survey and construction oversight support
- d) Provide material planning and procurement support
- e) Provide field testing and commissioning support of third rail system and certificate of conformance

3) Construction Management Support for Track Interlocking Replacement Projects

- a) Provide traction power coordination for the Track Interlocking Replacement Program.
- b) Coordinate with project teams and provide support for submittal reviews.
- c) Provide traction power field support.
- d) Provide support to Traction Power Engineering for red book and system map updates.
- e) Support shutdowns and other non-revenue work as needed.
- f) Identify locations for installation of knife switches for all track interlocking replacement projects and provide support for procurement and installation.
- g) Provide support in design coordination and procurement of 6KA traction power disconnect switches for installation at track and interlocking replacement projects.
- h) Coordinate with operations and safety to develop Interim Operating Procedures (IOPs) and Operating Bulletins (OBs) for track replacement projects and track knife switch installation.
- i) Review and confirm SSWP's for projects that include traction power scope.
- j) Develop draft sequence of events schedules and review the sectionalizing plans.
- k) Assist Traction Power Maintenance in identifying safe clearances needed to support track interlocking replacement.
- l) Support track projects and advise on pre-construction and construction activities
- m) Participate in constructability review of undertrack duct banks.
- n) Provide constructability reviews for track from a traction power perspective.
- o) Participate in and support the System Access Committee track allocation process
- p) Prepare quantity take-offs and construction estimates for materials procurement.
- q) Provide support for procurement activities, material tracking, and transitioning of capital inventory into BART RR Warehouses and Whipple Yard.
- r) Maximo support for material requests.
- s) Other tasks as directed by the District on a T&M Basis.

Prime: AECOM

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
United ECM	\$ 362,008	N	Y

Total Work Plan Value: \$ 434,228