

Work Plan No. A.01-01 – BART Design Services During Construction for Train Control Modernization Program Project No. – 49GH000

Scope:

2. SCOPE OF SERVICES

The work is associated with the following two sets of tasks:

- 1) Pre-NTP work that will occur from July 27th through August 31st
- 2) Hitachi initial work activities that will occur starting on September 1st through November 30th. DSDC work activities were identified based on the Hitachi Schedule titled "CBTC All Activities NTP = 8-31-20.pdf".

The Pre-NTP Work is as follows:

- 1) Vehicle Fitment
 - a. Continued discussions with Bombardier and Hitachi regarding the integration of CBTC on the Bombardier Fleet of the Future vehicles
 - b. Chair Hitachi vehicle integration workshops
 - c. Chair weekly meetings with RS&S and Bombardier on Vehicle Interface
 - d. Develop structure of Change Notice to Hitachi to require them to subcontract vehicle work to Bombardier
 - e. Coordinate radio frequency with T2G project and M&E staff
 - 1.
- 2) ATS/ICS Integration
 - a. Support Computer Systems Engineering (CSE) in the development of ICS documentation that can be exchanged with Hitachi
 - b. Chair Hitachi ATS/ICS Integration workshops
 - c. Review documentation from Hitachi
 - 2.
- 3) Other Work Items:
 - a. Continue Yard Interface Discussions with BART/Hitachi and begin Change Notice
 - b. Attend regular meetings with VTA Phase 2 Team as needed
 - c. Work with Hitachi to develop the Collaborative Work Plan
 - d. Analyze interfacing projects and interface matrix
 - e. Execute transition/orientation sessions with new team members
 - f. Attend 60-day forecast sessions with Hitachi

Post-NTP Work once Hitachi is mobilized: September 2020 to November 2020

- 1) Participate in design workshops with Hitachi and Bombardier
- 2) Review early CDRLS (ATS, vehicle, plans and process documents)
- 3) Continue support to CSE on ICS deliverables
- 4) Interface with VTA Phase 2 Team
- 5) Develop Yard Interface change notice
- 6) Startup Working Groups
- 7) Establish DOORs working environment
- 8) Review of Project Management deliverables including Schedules, Management Plans, QA Plans
- 9) Work with Hitachi on development of Collaborative Work Plan
- 10) Continue interface management for design interfaces
- 11) Execute transition/orientation sessions with new team members

Prime: Parsons

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
Acumen	\$22,446	Y	Y
ADS	\$25,858	Y	Y
Armand	\$136,903	Y	Y
Battelle	\$42,591	N	N
Countervail	\$37,558	Y	Y
Lea & Elliott	\$73,440	N	N
London Underground	\$16,000	N	N
Network Rail Consulting	\$173,579	N	N
Transit Systems Engineering, Inc.	\$102,147	N	N

Total Work Plan Value: \$ 1,948,997