

**BART Agreement Number: 6M8149**

**Approval Date: 10/29/19**

## **Work Plan No. B.07-01 ATO Whistle Stops**

### **Scope:**

The Scope of Services is to provide engineering to assist with the design, testing, and commissioning of an ATO Whistle Stop solution to improve access from the revenue tracks to the Hayward and Concord maintenance yards. The Scope of Services includes the following:

#### **2.1 DESIGN**

WSP will develop a conceptual layout of the ATO Whistle Stop solution for District review and approval, and will coordinate with the District and make adjustments as necessary to finalize the design. As part of the final design, WSP will:

- Conduct site surveys and field investigations as needed to determine appropriate equipment locations and communications routings
- Coordinate with the appropriate District personnel to address interfaces of existing equipment with the new system
- Conduct meetings and coordinate with appropriate District personnel and other project stakeholders
- Prepare, new and modify existing BART drawings, covering the installation details and other requirements for equipment and components
- Meet with District stakeholders to address review comments on the final design.

#### **2.2 DESIGN SERVICES DURING INSTALLATION, TESTING, AND COMMISSIONING**

WSP will:

- Assist with preparation of material quantities for procurement of materials for installation by BART
- Assist with developing cost estimates and/or schedules for procurement and installation, testing, and commissioning of equipment
- Provide field support during installation to resolve design conflicts and/or differing site conditions from as-built record documents
- Provide oversight of system testing and safety qualification activities
- Upon successful completion of safety requirements, provide documentation for the new system to BART
- Train Control Engineering, Operations, and Engineering & Maintenance personnel

#### **ASSUMPTIONS/EXCEPTIONS**

- Unless specifically directed otherwise by the District, CADD work, if needed, will be performed by the District's Documentation group.
- The design drawings and/or specifications are intended for the procurement of equipment and materials to be installed by District maintenance personnel.

**Prime: WSP USA, Inc**

**Subconsultants: None**

**Total Work Plan Value: \$267,828**