BART Agreement Number: 6M8148 Approval Date: 9/04/19

# Work Plan No. B.01-01 Analog to Digital Camera Conversion - Powell (M30), Civic Center (M40), and 16th Street (M50)

## Scope:

## A. As-built, Mapping, and Survey

- Conduct initial site surveys to determine preliminary locations for cameras.
- Develop conceptual layout showing preliminary camera locations and submit to BART for their review.
- Coordinate with BART any required adjustments to finalize camera locations.
- Provide Pre-renovation hazardous materials consulting services. Work will be performed by TSE's subconsultant, SCA Environmental, Inc. (SCA). SCA will make up to 3 site visits and collect up to 150 samples of suspect asbestos-containing materials. Repair of sample wounds to be performed by BART.

#### B. Final Design Drawings

- Conduct as required site surveys and field investigations to determine appropriate camera mountings, communication equipment locations and raceway routings.
- Coordinate with the appropriate BART departments to address interfaces of existing equipment with the security system.
- Conduct meetings and coordinate with appropriate BART departments and other project stakeholders.
- Prepare 35%, 60%, 100%, and Issued for Bid (IFB) drawing packages, covering the installation details and other requirements for the video surveillance security system equipment and components.
- Meet with BART stakeholders to address review comments on design submittals.

## C. Contract Document Development

- Prepare Final design & Contract package completion & IFB design support for Contract Drawings and Contract Specifications based on existing and new cable routing.
- Meet with BART stakeholders to address review comments on design submittals.
- Prepare construction cost estimates and construction schedule.
- Assemble Contract Bid Documents to include work products prepared by other Consultants.
- Provide support during IFB Cycle respond to bidder questions, prepare addendums, participate in pre-bid meetings and assist on bid evaluation.
- Prepare and submit conformed design drawings.
- Scope of Service is complete when project receives NTP (Notice to Proceed).

## D. Project Management

• Manage and coordinate work assignments of other Consultants.

## E. Assumptions

Following are the assumptions used in the development of the design scope:

- 1. Cameras and access control devices will be procured separately by BART and will be defined as District-Furnished Equipment within the Contract.
- 2. Contract Specifications will be prepared following CSI Master Format 04, and will invoke, Where applicable, the Standard Specifications in the BART Facilities Standards Rev. 2.1.1.
- 3. BART will provide timely support upon request for field surveys to avoid any delays to design schedule.
- 4. Power to the cameras and field concentrator panels will be from the existing UPS in the nearest train control room.
- 5. Topographic backgrounds are available from previous BART projects.

Prime: TY LIN - TSE, JV

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
OPAC	\$207,277	Υ	Υ
SCA Environmental, Inc.	\$18,317	N	N
YEI Engineers	\$67,705	Υ	Υ
<b>ELLE Consultants</b>	\$44,194.57	Υ	Υ
Charistech	\$36,333	Υ	Υ

Total Work Plan Value: \$990,288