

**BART Agreement Number: 6M8149**

**Approval Date: 10/30/2020**

**Work Plan: No.B.15-01 – Design and DSDC of Acoustic Panel Anchorage**

**Scope:**

## **2 SCOPE OF SERVICES AND WORK BREAKDOWN STRUCTURE**

### **2.1 PROJECT MANAGEMENT AND ADMINISTRATION**

Project management and oversight will be provided throughout the design progress. Tasks include conducting internal design coordination meetings; performing independent design reviews and quality assurance activities; and preparation of monthly progress reports including the status of each subtask and milestone deliverable(s), and an evaluation of budget and schedule status based on a comparison on planned versus actual progress.

Design coordination and exchange of information with District project staff and key stakeholders will take place through ad-hoc and regularly scheduled (bi-weekly) coordination meetings, the purpose of which is to identify, review, monitor, and mitigate project risks; to report on project progress; and to discuss management and coordination issues that require the attention/concurrence/input from the District staff.

### **2.2 SITE VISITS**

Site visits are as follows:

- Perform three site visits to collect the information for the design of the anchorage repair

### **2.3 EVALUATION AND DESIGN DEVELOPMENT OF EXISTING ACOUSTIC PANELS**

The following services will be provided:

- Perform structural design calculations for anchorage of each existing acoustic panel.
- Develop details and specification for anchorage of existing acoustic panels.

### **2.4 DRAWINGS, SPECIFICATIONS AND CALCULATIONS – 65%**

- Provide 65% design level drawings for anchorage repair for review and comment
- Provide 65% specifications for anchorage repair for review and comment
- Provide 65% structural back-up calculation for anchorage repair for review and comment

2.5 DRAWINGS, SPECIFICATONS AND CALCULATIONS – 100%

- Provide 100% design level drawings for anchorage repair for review and comment
- Provide 100% specifications for anchorage repair for review and comment
- Provide 100% structural back-up calculation for anchorage repair for review and comment

2.6 FINAL DRAWINGS AND SPECIFICATONS

Provide final drawings and specifications for anchorage repair to be used by BART maintenance staff.

2.7 DESIGN SERVICES DURING CONSTRUCTION

- Provide Design Service and Engineering Support during Construction (DSDC). Up to ten site visits are included as part of this scope.
- Site visits will focus on performing structural observations during construction and provide the observation reports.

ASSUMPTIONS/EXCEPTIONS

- Existing box girder, acoustic panels, and steel plates will not be evaluated as part of this project.
- Estimates and schedules are not part of the scope of work as the construction work will be done by BART maintenance.
- As the precast panels are already supported by the existing structure, an evaluation of existing global structure including aerial girders and supports is not part of the scope of work.
- Preparation of as-builts (final record drawings) are not included in the scope.
- Structural observations by WSP Engineer during a typical field visit will be documented in the form of a brief memo.

**Prime: WSP**

<b>Subconsultant</b>	<b>Amount</b>	<b>DBE (Y/N)</b>	<b>SBE (Y/N)</b>
SPS Engineers, Inc.	\$ 93,527	Y	Y

**Total Work Plan Value: \$ 172,956**