

**BART Agreement Number: 6M8145**

**Approval Date: 12/22/2020**

**Work Plan: No. B.03-02 – New Rail Vehicle Change Order Review Audit**

**Scope:**

The proposed scope of work for this Trend has been divided into the following eight (8) tasks.

Task 1. Continue the onboard and wayside noise measurements at six (6) month intervals. The number of wayside sites will be increased to six (6) to provide some support for the ongoing monitoring at 50 test sites. The estimated level of effort each time that onboard or wayside measurements are performed is 80 hours, which includes the time for obtaining track time, mobilization, performing the measurements, analyzing the measurement recordings, and preparing a memorandum summarizing the measurement results. This labor estimate assumes six (6) wayside measurement sites. The onboard measurements require two to three days for an ATS staff member onboard BART trains. When performing the onboard noise measurements the ATS staff member is always accompanied by a BART staff member.

Task 2. Determine difference between onboard noise and vibration measurements on new Bombardier and old vehicles. This task will be based on comparison of onboard measurements of train consists of all Bombardier vehicles to onboard measurements with all trains with all legacy vehicles. We anticipate that measurements to document the difference between onboard noise on the Bombardier and legacy BART vehicles will be performed as part of the August 2020 onboard measurements. ATS will prepare a memorandum that outlines our planned approach for these measurements prior to the August 2020 measurements and a revised version of the memorandum will be provided prior to the February 2021 measurements.

**Prime: Jacobs**

<b>Subconsultant</b>	<b>Amount</b>	<b>DBE (Y/N)</b>	<b>SBE (Y/N)</b>
Acumen	\$ 196,802	N	N
Cross-Spectrum Acoustics	\$ 65,798	Y	Y

**Total Work Plan Value: \$ 347,018**