

**BART Agreement Number: 6M8124**

**Approval Date: 12/13/19**

**Work Plan No. B.08-5 - A&R Line 34.5kv Cable Replacement - Post 100%  
Design Add'l Scope**

**Scope:**

Through coordination and discussion meetings with BART Traction Power Engineering staff regarding grounding, the scope of the design of the IDS grounding expanded significantly, and the design criteria continued to evolve over the course of the design effort. WSP's original scope followed the design approach from previously advertised/constructed projects, which used a standard rectangular grounding grid around the IDS pads. Amendment No. 3 to the contract requested that WSP develop site-specific grounding design for four (4) sites (AWA, LAA, RCP, and RCN) for protection of staff around the IDS equipment. The criteria to protect maintenance and public staff from touch and step potential beyond the boundary of the fence limits resulted in detailed analysis of all 14 sites (AWA, LAA, RCP, RCN, AHA, ASH, AEY, AUC, RAS, RNB, RPD, RRI, RYE, and RRY) to meet the newly established performance and safety standards.

**Prime: WSP**

<b>Subconsultant</b>	<b>Amount</b>	<b>DBE (Y/N)</b>	<b>SBE (Y/N)</b>
JMA	\$13,477	N	Y
OPAC	\$51,459	Y	Y
SEM	\$18,498	N	Y
SPS	\$66,785	Y	Y

**Work Plan Value: \$662,534**