

**BART Agreement Number:** 6M8142

**Approval Date:** 03/18/2021

**Work Plan:** No. B.11-02 – Embankment Erosion Mitigation

**Scope:**

## **2.0 SCOPE OF WORK**

This work plan covers additional services provided due to the following reasons:

- The original scope considered the design for one Contract package. The project will now be split into three (3) contracted out packages. The original contract was divided into three contracts for the following reasons:
    - The project will be able to separate the locations to different packages based on priority and funding, Package 1 being the highest priority and Package 3 being the lowest priority.
    - Multiple contracts allow for supporting multiple Bay Area businesses as opposed to one or two conglomerates that have larger bidding capacity. Larger conglomerates can add significant markup to the subcontractors' cost and lead to more Change Orders and delays. BART OCR prefers smaller contracts as they create opportunities for the SBEs.
    - Contractors have limited resources and having three contractors working on separate projects, will provide a greater chance of completing the projects on time, as opposed to waiting for a single contractor to finish one location at a time.
    - Ability to stagger contracts and allow for incorporating lessons learned into the next contract, minimizing delays and change orders.
  - Even though the preferred option due to cost and effectiveness is to have 3 separate contracts, multiple packages increase the total number of Plans, Specifications and Estimates (PS&E) which requires additional Design/QA, and production efforts. Multiple packages also increase the amount of coordination, and the total number of review cycles.
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- Scope has been expanded to include three additional sites A2006, C2009, and C2014. These sites require similar site investigations, analysis, and design to repair/mitigate any erosion issues discovered by the design team. These changes have increased the design efforts and number of documents (PS&E) in the deliverables.
  - Scope has also been expanded to include supplemental surveys to cover the areas of work proposed for the design. Previous surveys for these areas were not available or limited to a small portion of the work area and needed to be expanded to include the full extent of repairs and incorporate BART right of way data.
  - Project management services during the extended design schedule and the development of the contract documents and bid process.

**Prime: AECOM**

<b>Subconsultant</b>	<b>Amount</b>	<b>DBE (Y/N)</b>	<b>SBE (Y/N)</b>
WRECO	\$ 23,581	Y	Y
M Lee	\$ 88,861	Y	Y
CINQUINI	\$ 264,698	N	N

**Total Work Plan Value: \$ 146,068**