

BART Agreement Number: 6M8142

Approval Date: 09/28/23

Work Plan No. B.39-01 Silicon Valley Berryessa Extension Embankment Seismic Assessment Peer Review

Scope:

Objective: Perform an independent peer review of the work by HDR to support assessment of existing LCC MSE Wall performance with a focus on LCC backfill.

Task 1 – Program and Project Management

AECOM will provide the following services:

- Attending up to 49 – one (1) hour long virtual project coordination meetings with BART and HDR and up to 6 hours of additional meetings for comment resolution.
- Quality Control and Quality Assurance
 - The AECOM Team will provide a Quality Management Plan that will be followed for all deliverables related to this work plan. AECOM's Quality Control Checklist with applicable signatures will be provided with each deliverable. AECOM is an ISO 9000 Certified organization, and all quality management plans adhere to the requirements of that certification.
- Prepare monthly invoices.

Task 2 – Independent Peer Review

1. AECOM Team will perform reviews of HDR deliverables associated with up to eleven milestones identified in BART's Scope of Services "Embankment Seismic Assessment" (PDF file creation date of May 11, 2023). Our scope reflects there being only one version of each draft and final document; review and/or backchecking of multiple versions are excluded from this scope. Any subsequent re-review or re-backchecking of documents or additional meetings (including regularly scheduled or non-scheduled teleconferences or other communications) will require additional budget. In addition, only one complete set of documents will be provided at the start of each review period, and all items associated with that particular milestone review can be reviewed concurrently.

AECOM Team will review the following deliverables from the HDR Assessment:

- a. Base Scope
 - i. Draft Technical Memo for literature review and observations from site visit.
 - ii. Initial draft assessment report including Calculations.
 - iii. Final draft assessment report including Calculations.
 - b. Optional Scope
 - i. Laboratory Test Plan for Review. This excludes laboratory testing and structural engineering reviews.
 - ii. Technical Memorandum to describe the Phase 1 laboratory testing program and the test results, and to present proposed modifications for Phase 2 of the testing program.
 - iii. Technical Memorandum to describe the Phase 2 laboratory testing program and the test results.
 - iv. Initial draft assessment report including Calculations.
 - v. Final draft assessment report including Calculations.
2. The AECOM Team will prepare a memorandum to present findings, comments, and resolutions from the review of each deliverable as well as a peer review comment log. The memo will contain the following main sections:
 - Summary of review findings drafted by AECOM team.
 - Recommendations to BART regarding the deliverable.
 - Peer review comment logs (using the BART Comment Resolution Form template, to be provided by BART) This will be included as an attachment to the memo and the CRF excel file will be used to log all comments and responses.

The AECOM Team will review documentation to provide a single round of new peer review comments per deliverable, together with one round of follow-up comments to previous peer review comment responses per deliverable, and indications that previously outstanding peer review comments are closed. If there are additional rounds of backcheck required to close out comments these will require additional budget.

3. Attend comment resolution meetings to clarify, discuss, and resolve comments with BART and HDR. The estimated costs also include the AECOM Teams participation in one, up to 3-hour comment resolution meeting, attended virtually by AECOM team, per milestone.

Prime: AECOM

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
Gerhart Cole	\$ 150,652	N	N

Total Work Plan Value: \$ 208,786