

BART Agreement Number: 6M8145

Approval Date: 05/03/21

Workplan No.B.20-01-Silicon Valley Berryessa Extension Seismic Assessment

2. SCOPE OF SERVICES

2.1 Berryessa Station – Canopy post anchorage Connection

Provide independent seismic evaluation of Berryessa Station Canopy post anchorage connections as follows:

1. Review relevant project specific design criteria, specifications, geotechnical reports.
2. Review relevant as-built drawings, construction submittals.
3. Verify anchor bolt embedment length with non-destructive testing, if necessary.
4. Determine whether the in-situ canopy column anchorage connections meet the project design criteria for operability performance level.
5. Model 3D canopy structure in SAP2000, Risa3D or other appropriate analysis software. Attenuation affects, due to the canopy support structure mass and stiffness, will be accounted for in the seismic analysis.
6. Should connections not meet the original Silicon Valley Berryessa Extension Project Design Criteria, determine if it meets life safety requirements using 2019 California Building Code.
7. Should connections not meet life safety requirements, determine level of earthquake that connections can withstand for life safety performance per 2019 California Building Code.
8. Provide conceptual repair detail recommendations (not the detailed design) for canopy column anchorage connection retrofit, as required.
9. Perform site visits to inspect the column connection and to get information on the site condition and to verify and perform Ultrasonic Testing to confirm embedment length, if required, during blanket hours.

Prime: Jacobs

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
Fugro	\$135,516	N	N

Total Work Plan Value: \$ 198,868