

BART Agreement Number: 6M8145

Approval Date: 2/07/2020

Work Plan No. A.04-02 – Updated Retrofit Design Ground Motions for the Transbay Tube (TBT)

Scope:

For various reasons, costs for the Bay Area Rapid Transit (BART) Transbay Tube (TBT) retrofit project have greatly increased beyond those originally anticipated and budgeted, so options for reducing cost are being explored, including:

- Reduce the construction scope of the project
- Construct the retrofit in stages, if and when additional funding becomes available
- Reduce or modify the design performance goals, design criteria, and hazard levels
- Re-evaluate the DBE design ground motions in light of most recent developments and understanding of the seismology and local seismicity then reanalyze the current TBT retrofit design with these revised motions.

The first part of the last bullet also involves generation (by Fugro) of new DBE ground motions at the tube level propagated up from bedrock level motions, rather than a conservative approximation of the tube level motions propagated up from an intermediate soil level. The purpose of this study is to evaluate the TBT with these new ground motions and compare the demands.

Prime: Jacobs

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
SC Solutions	\$143,837	N	N
Fugro	\$106,269	N	N

Total Work Plan Value: \$ 272,891