

BART Agreement Number: 6M8142

Approval Date: 12/10/21

**Work Plan No. B.12-05 – Water Intrusion in Train Control Rooms Project -
Additional Design Services**

Scope:

- 1) The scope of this work plan is to perform value engineering on six (6) stations within the original scope of the project and provide recommendations for repairs/actions at each location with Rough Order of Magnitude (ROM) cost associated with each recommendation. This cost benefit analysis (CBA) will include Hayward and Richmond stations and an evaluation of trackway waterproofing vs ceiling crack injection. Upon receipt of this CBA BART will decide which repairs will be incorporated into the design. Water intrusion measures at each of these locations have been designed to 65% by other consultants and AECOM assumes these designs will be provided.
- 2) The scope of this work plan will also be adding the scope of cleaning the track drain and repairing the expansion joint located above the train control room with the possibility of adding trackway waterproofing design for the entire area above the train control room to be determined after creation of the CBA. This work will be included in Package 3 and will require creation of up to 5 sheets with additional details being added to plan set.
- 3) The scope also includes splitting the project into 4 packages: one In-House package to be performed by BART In-House maintenance staff (10 locations) and 3 contracted out Bid packages (6-8 locations per package).
- 4) Additional support will be required for the design phase which consists of extensive coordination with the following entities;
 - a) Union Pacific Railroad (UPRR)

Prime: AECOM

| Subconsultant | Amount | DBE (Y/N) | SBE (Y/N) |
|----------------------|---------------|------------------|------------------|
| Aquatech | \$ 69,676 | N | Np |

Total Work Plan Value: \$ 187,012