

**BART Agreement Number: 6M8142**

**Approval Date: 06/10/24**

**Revised: 06/15/26**

**Work Plan No. B.58-01 15TH003 - Design Consultant Service for Elevator/Escalator Machine Rm - MS4 Compliance**

**Scope:**

The scope of work includes the design of oil-water separators, new connections to the existing sanitary sewer or connection to storage bin, and a new sump pump if deemed necessary. Site visits are anticipated to be completed during the pre-design phase. The efforts required for this design include the following:

**2.1 Project Management**

- 2.1.1** Prepare design schedule.
- 2.1.2** Attend bi-weekly design meeting and prepare meeting minutes with action items.

**2.2 Pre-Design Work**

- 2.2.1** Identify existing sanitary sewers through review of BART as-builts and field verification of exact location. AECOM will use equipment to gather geospatial information of the sanitary sewer, the precision of this data is generally accepted to be +/- 2 feet. AECOM will not locate Storm drain since water with oil cannot be discharged into Storm drain per MS4.
- 2.2.2** Research station as-builts to determine suitable locations of existing electrical and communications utilities for installation of new sump pumps. AECOM will propose locations and BART will perform investigation to provide approval of proposed locations ensuring the electrical and communications connections have adequate capacity and are available to connection prior to construction. BART will mark these locations for connection between design and construction to avoid additional changes. If as-builts are not available or do not

show location of sanitary sewer AECOM can perform utility location and survey for additional fee.

- 2.2.3 BART will provide AECOM with any agreements between BART and local jurisdictions such as Ora Loma Sanitary District (Bay Fair), San Leandro, (San Leandro), and North San Matro County Sanitation District (Daly City).
- 2.2.4 Conduct site visits for each location. BART will prepare Global SSWP and provide means of access for site visits.

### **2.3 Developing Conceptual Design**

AECOM will develop 2 design options for each location. One option will be to pump water from machine room into storage container to be emptied periodically by maintenance, with the other pumping to machine room water into sanitary sewer. AECOM will then host a presentation with all stakeholders for approval of which design option to proceed with during design, in which there will be a draft and final submittal. AECOM will indicate when this meeting takes place and get an agreed upon date from the BART PM and stakeholders. This meeting must be attended by all stakeholders to identify any issues early to avoid redesign after draft submittal. AECOM requests list of stakeholders and preliminary comments on design prior to finishing draft conceptual drawings. Stakeholders include local jurisdictions at all 3 locations. Conceptual drawings shall include the following:

- 2.3.1 Identify existing features (e.g., pumps, controls, pipe, and existing structures, etc.) for demolition to facilitate the installation of new sewer lateral, and oil/water separator.
- 2.3.2 Identify potential measures to mitigate water intrusion.
- 2.3.3 Develop a sewer connection solution and route from existing machine room to the existing sanitary sewer main, incorporating a new oil/water separator.
- 2.3.4 Design of the new oil/water separator including the size and capacity.
- 2.3.5 If required, design a complete sump pump system, including the type and size, and the new system should include the following:
  - 2.3.5.1.1 New communications and electrical wiring for the sump pump.
  - 2.3.5.1.2 New force main between new sump pipe and new oil/water separator.
- 2.3.6 Provide typical maintenance procedure and frequency for oil/water separator and sump pump system.
- 2.3.7 Develop replacement and/or restoration plan for any existing MEP system, sidewalk, pavement, structure, or waterproofing/sealant disturbed during construction.

### **2.4 Site Investigation Memorandum & Conceptual Design Drawing**

- 2.4.1 Prepare site investigation memorandum.
- 2.4.2 Prepare conceptual design drawings.
- 2.4.3 For each location, prepare a preliminary construction cost estimate set. This will be a material procurement schedule and an estimate of labor hours.

**Prime: AECOM**

| <b>Subconsultant</b> | <b>Amount</b> |
|----------------------|---------------|
| YEI                  | \$ 43,665     |

**Total Work Plan Value: \$ 552,645**