

BART Agreement Number: 6M8120

Approval Date: 07/31/18

**Work Plan No. C.03 - Amtrak Oakland Maintenance Facility (OMF)
Diesel Exhaust Fluid (DEF) System**

Scope:

Administration and Project Management:

The Program Management Team will perform the following activities in support of the project:

- Coordinate workplan activities.
- Workplan communications/meetings/record keeping.
- Workplan progress reporting.
- Subconsultant management.
- Monthly progress reports and agreement administration.

Project Understanding:

- Amtrak would like to install a DEF system at their OMF for filling up to 10 locomotives per day in order to comply with regulatory emission standards.
- The Basis of Design provides alternate configurations and it has been noted by Amtrak and in the Basis of Design that Alternate A is the preferred configuration. The design will adhere to the Alternate A configuration.
- The Basis of Design notes tank size and location, fill port location, flow rates, pipe routing and sizing, monitoring, and equipment selection.

Scope of Work:

Tasks of the project included under Basic Services:

- Preliminary Engineering: Blymyer will contact regulatory agencies that will affect the proposed installation to determine applicable codes and ordinances. Blymyer will visit the site to determine the exact facility needs and construction sequencing options including obtaining asbuilt drawings.
- DEF System Design: Blymyer will provide the mechanical design for the DEF system, including aboveground tank, piping, pump, and dispenser.
- Electrical Design: Blymyer will provide the electrical design related to the DEF system. The design will include single-line diagrams, pump and dispenser control diagrams, and leak detection system.
- Structural/Civil Design: Blymyer will provide the structural design for anchoring the aboveground tank, pipe support, and general equipment support. Blymyer will also provide design for fencing and possible platform noted in the RFP.
- Site Visits: Total of two site visits during the design phase.

Prime: HNTB/FMG JV

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
Blymyer Engineers	\$46,394	N	N

Total Work Plan Value: \$65,145