

BART Agreement Number: 6M8146

Approval Date: 01/05/26

Work Plan B.54-01 BART UAS Pilot Program

Scope:

The Consultant will perform the following duties and responsibilities:

- Drone collection
 - 1 mm GSD detailed inspection of certain structures
 - 1 cm GSD general inspection photos
 - 2.5 cm GSD Orthomosaic Imagery
 - 5 cm GSD 3D model
 - Thermal Inspection Imagery
 - Thermal Orthomosaic Imagery
 - Corresponding daytime RGB photos for Thermal Imagery
 - LIDAR scan of key structures for certain facilities
- Laser Scanning (2 Options)
 - Option 1: Simultaneous Localization and Mapping of areas with complex structures (for dimly lit areas, challenging areas for photogrammetry)
 - +/- 10 mm accuracy
 - Option 2: Terrestrial Laser Scanning of areas with complex structures (for dimly lit areas, challenging areas for photogrammetry)
 - +/- 2 mm accuracy
- Data Processing
 - Orthophoto generation
 - 3D Model generation
 - Inspection photos
- Deliverables
 - Software Platform(s) for inspection and analysis

Prime: Parsons Transportation Group

Subconsultants: None

Total Work Plan Value: \$ 274,637