

Work Plan No. A.02-02 Relocated OCY Wheel Truing Facility Final Design

Scope:

CONSULTANT will proceed with preparing two contract packages for the Project as described below.

2.1 FINAL DESIGN UPDATES – WHEEL TRUING FACILITY 03QJ-110A

- a. Update facility design plans with new wheel profiling equipment layout and utility updates based on the equipment updates to be provided by BART's equipment manufacturer, Simmons. Incorporate BART Stakeholder review comments.
- b. Update Design Building location layout and site access improvement modifications.
- c. MT1 & MT3 Track Runaround – Revision to the shop track and tie-in to the adjacent storage track including new special trackwork, train control design (local route selection), and modification of traction power design to support new shop track. Revise the trackwork for a “through-put” train movement with runaround capability and tie-in to the adjacent MT1 Storage Track per the request of BART Facility Operations.
 - I. Trackwork – Design layout for a No. 8 turnout connection on the northerly limits of the facility and No. 8 crossover connection (Standard No 8 and Modified No 8) on the Southerly limits of the facility.
 - II. Train Control – Design local route selection for the new trackwork connections.
 - III. Traction Power – Design 3rd rail electrification for the new trackwork for BART Operations.
 - IV. Structure / Architecture – Design revision of the exterior facility canopy to accommodate the planned trackwork geometry.
 - V. Civil – Revise the exterior site improvements to accommodate the new trackwork arrangement and details, utility coordination, and SD (Storm Drain) management area to be offset to a location outside the yard limits.
 - VI. Electrical/Communications – Revise electrical service for planned train control. Review and design lighting to meet BFS requirements in new trackwork area.
 - VII. Landscape – Design Planting and Irrigation for the new SD management area.

- d. Update Technical Specifications to include changes to the wheel profiling equipment and contract milestones for equipment delivery and installation by Others. Simmons to provide estimated equipment delivery dates.
- e. Continue to support design, coordination, and field visits for the Wheel Truing Facility and Turntable power and communication systems integration. Prepare plans and exhibits for PG&E coordination.
- f. Update cost estimates and review scope for possible cost savings or scope reductions.
- g. Preparation of SSWPs for fieldwork.
- h. Continue to support the research and field investigation of the existing Train Control Ductbank and Pull Box in conflict with the building foundation and equipment pit; perform additional Field Survey, GPR Scanning, and Pothole Activities.
- i. Perform Geotechnical Investigations to validate the findings of the previous geotechnical report provided by BART and prepared by URS dated June 2010. The previous report included data from borings for the proposed shop outside the limits of the building footprint. The planned geotechnical work will be conducted within the building footprint. Provide a Memorandum of the findings.
- j. Perform Hazardous Investigations within in the limits of the building footprint to classify the existing soils beneath the ballast for disposal purposes.
- k. Prepare technical specifications for the coordination with wheel truing equipment manufacturer.
- l. Prepare technical specifications for battery operated vehicle puller (hi-railer) for the movement of vehicles.

2.2 EQUIPMENT PROCUREMENT CONTRACT BOOK 03QJ-140

- a. Prepare the technical section of the procurement document for the Wheel Truing Equipment based on the Simmons Stanray TN 84C wheel truing equipment. BART to provide template word file and sample procurement contract to follow. Equipment to be a sole source from NSH (Simmons Machine Tool Corp), BART to provide the Sole Source justification for BART Contracts and Legal submission. Include supplemental drawings and schematics from the Shop Facilities plans and plans provided by BART for the rail vehicles.
- b. Respond to and address procurement document comments from BART reviewers including Stakeholders, BART Legal, and BART Procurement.
- c. Participate in meetings with Stakeholders and Equipment Manufacturer.
- d. General Conditions, Supplementary Conditions, and Instruction to Bidders to be prepared by BART Staff. Coordinate files for integration of the technical section with the contract book.

Prime: PGH Wong Engineering, Inc.

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
AMC Consulting Engineers	\$ 56,766	Y	Y
FW Associates	\$ 80,332	Y	Y
Merrill Morris	\$ 55,365	Y	Y

Total Work Plan Value: \$ 1,100,467