

BART Agreement Number: 6M8147

Approval Date: 5/15/2020

Revised: 4/23/2026

Work Plan No. A.09-01 Hayward Maintenance Complex, Phase 2 - Design of East Storage Yard and Northern & Southern Connections

Scope:

2.1. Contract Nos. 01RQ-100 & IFB9085: Mainline Crossovers/Trackwork Procurement

CONSULTANT will prepare Contract Documents for Contract 01RQ-100 Mainline Crossovers and Issued for Bid (IFB) Contract Documents for Contract IFB9085 Mainline Trackwork Procurement. These Contracts were not included in previous work plans and were created as a result of BART forces self-performing work originally planned for the East Storage Yard Contractor. The scope of work consists of:

- Procurement of special trackwork and track materials for trackwork that will be installed by BART forces in advance of the work to be performed under Contract 01RQ-103, East Storage Yard. Special trackwork to be included in this Contract are as follows:
 - Two (2), #15 Crossovers @ 14'-0" track centers
 - Four (4), #10 Turnouts
 - One (1), #8 Turnout

- Installation of new and modification of existing contact rail system at mainline track tie-ins.
- Installation of underground civil infrastructure at mainline track tie-ins.

2.2. Contract 01RQ-101: Trackwork Procurement

CONSULTANT to prepare Issued for Bid (IFB) Contract Documents for the procurement of special trackwork and track materials for the Northern Mainline Connection. The Northern Mainline Connection special trackwork and track materials procurements was not included in WP No. A.05-01, issued under GEC Contract No. 6M8122

2.3. Contract 01RQ-102: Civil Grading

CONSULTANT to prepare 100% and Issued for Bid (IFB) Contract documents for the following scope revisions to Work Plan No. A.07-01, issued under GEC Agreement No. 6M8122:

- Modification to civil site, grading, and drainage design to limit impacts to jurisdictional waters (ditches) due to environmental clearance and permitting challenges.
- Removal of two (2) retaining walls from design

CONSULTANT will provide two student interns under BART's Student Intern Program. The interns will report directly to BART Project Management.

2.4. Contract 01RQ-103: East Storage Yard

CONSULTANT will prepare 100% and Issued for Bid (IFB) Contract documents for the scope of work identified under Work Plan No. A.10-01, issued under GEC Contract No. 6M8122. The previous work plan limited design work to a 90% level. This work plan will include modifications requested by BART and advance the design effort to a 100% and Issued for Bid (IFB) design level.

CONSULTANT will prepare 60%, 90%, 100% and Issued for Bid (IFB) Contract documents for the following scope revisions to Work Plan No. A.10-01, issued under GEC Agreement No. 6M8122:

- Northern Mainline Connection – Following a meeting held on 04/01/19, BART revised the scope of work to include a Northern Mainline track connection to the East Storage Yard. The Northern Mainline Connection scope of work includes additional design for:
 - Trackwork elements such as cross-overs and turnouts for the Northern Mainline Connection track tie-ins.

- Civil and structural elements including site grading, access roads/cart paths, utilities, retaining walls, site drainage, and stormwater treatment Best Management Practices (BMPs).
 - One train control room and two traction power gap breaker station sites.
- 34.5kV Cable Replacement Scope – Following a meeting held on 07/17/19, BART transferred the scope of work originally planned for the 34.5kV Cable Replacement Project to the East Storage Yard Project. The transferred scope of work includes the design of duct banks and underground civil infrastructure for the new 34.5kV cable system between Industrial Parkway and BART’s Rail Storage Yard (951 Whipple Road).
 - Electrical and Systems Design – The Electrical and Systems Design will be updated to include the final design of low-voltage electrical facilities and equipment that provides power to the new facilities in the East Storage Yard; communications system inclusive of intra- and inter-facility connection diagrams, cable and equipment details, and installation details for new facilities in the East Storage Yard; traction power system one-line diagrams, cable and third rail elements, and infrastructure details to support the BART traction power equipment delivered under a separate contract; and train control system inclusive of a final one-line diagram, route and limit line diagrams, cable and equipment elements, and installation details. Following the addition of the Northern Mainline Connection and the removal of the southbound flyover structure the electrical and systems scope of work changed significantly. This work plan includes the additional design effort needed to advance the electrical and systems design from a 90% to an IFB level and includes significant design revisions due to the reconfiguration of the yard’s train control, traction power, communications, and electrical facilities as a result of the Northern Mainline Connection.
 - Train Operator/Car Cleaner/Cart Charging Facility – The Train Operator/Car Cleaner/Cart Charging Facility will be a two-story facility designed for Train Operators and Car Cleaners. The exterior of the facility includes a cart charging area. The design of this facility was not included under Work Plan A.10-01.
 - Car Wash Facility – The Car Wash Facility will allow for the washing of BART’s revenue vehicles. The design of this facility was not included under Work Plan A.10-01.
 - Golf Cart and Pedestrian Overcrossing Structure – The Golf Cart and Pedestrian Overcrossing Structure will provide a means for pedestrians and golf-carts to traverse between the existing Hayward Yard and East Storage Yard. The design of this facility was not included under Work Plan A.10-01.

- Whistle Stop Structure Extension – The Whistle Stop Structure will be extended to cross over the Hayward Test Track. This structure will provide a means for Train Operators to access the current whistle stop platform from the East Storage Yard. The design of this facility was not included under Work Plan A.10-01.
- Car Cleaning Platform – The Car Cleaning Platform will provide a means for Car Cleaners to access the interior of BART revenue vehicles via raised platform. This feature was added to the scope of work following a meeting held on 09/18/19 with BART. The design of this facility was not included under Work Plan A.10-01.
- HMC Phase 1 Stormwater Treatment BMPs – The HMC Phase 1 Stormwater Treatment BMPs will provide a means to detain and treat stormwater runoff from the HMC Phase 1 Project Site. The design of this facility was not included under Work Plan A.07-03 or A.10-01.
- Deletion of Southbound Flyover Structure – The Southbound Flyover structure will be removed from the design package, including removal of one traction power system gap breaker site.

CONSULTANT will prepare California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) environmental documentation and associated permitting as described in Exhibit A.

CONSULTANT will coordinate with utility companies to obtain the necessary agreements needed for the relocation of existing utility facilities.

CONSULTANT will provide Health Safety Representative (HSR) and Watchperson support during site investigation work. It is assumed that the HSR and Watchperson will be needed for a maximum of 60 site visits.

3. QUALITY ASSURANCE/QUALITY CONTROL PLAN (QA/QC PLAN) REQUIREMENTS

The purpose of the QA/QC Plan is to provide that the work product prepared for the Hayward Maintenance Complex Project Phase 2 by CONSULTANT meet applicable professional guidelines and standards. CONSULTANT will utilize the BART Hayward Maintenance Complex Project Phase 2 QA/QC Plan, Revision A, dated September 21, 2018 in order to follow, support, implement, and enforce the contract requirements for the Project. The QA/QC Plan conforms to the requirements set forth in the District's Quality Management Plan (QMP) for the Transbay Corridor Core Capacity Program (TCCCP) that are applicable to design activities. The QA/QC Plan also follows the Federal Transit Administration (FTA) Quality Management System Guidelines, dated December 2012, FTA-PA-27-5194-12.1.

Prime: PGH Wong Engineering, Inc.

Subconsultant	Amount
Towill	\$ 196,735
Parikh	\$ 144,667
AMC	\$ 1,326,174
FWA	\$ 781,577
WRECO/HDR	\$ 1,348,610
Shiralian	\$ 80,079
Cornerstone	\$ 17,294
Ken Heilig	\$ 2,000

Total Work Plan Value: \$ 11,637,270