

Work Plan No. B05-03-TCCCP Traction Power Substation Additional Design Scope

2.0 SCOPE OF SERVICES

General:

The project requires design to be progressed on multiple sites simultaneously. Each site has unique challenges which include considerations that were not addressed in the conceptual design. As a result, HNTB+FMG JV team has been requested to provide additional alternatives analysis and investigation, technical design and meeting support, and coordination with BART stakeholders and other BART projects. The following tasks capture the cumulative design changes requested to date.

Scope:

Task 1: KTF Substation – PSR Aesthetic Plan

Provide consultation and develop aesthetic plan for KTF substation to support Caltrans Project Study Report. HNTB provided support in developing and revising visualizations for KTF substation including meetings with BART and Caltrans. HNTB was tasked with developing the aesthetic plan which analyzed the visual changes proposed by the project.

Deliverable:

Aesthetic Plan

Task 2: RPA Storm Drain and Roadway Design

Provide field investigation, alternatives analysis, final design, and coordination with City of Richmond and BART's Richmond Yard Fencing Project. It was identified that the proposed RPA substation site floods in large storm events due to the local subdivision draining into BART property. HNTB supported drainage analysis, developed drainage alternatives, supported coordination meetings, and prepared multiple design revisions. Ongoing coordination is required between the in-construction BART Richmond Yard fencing project and the street design due to potential non-standard BART guardrail designs.

Deliverables:

Alternatives Design Layouts

Final Design of Portola Ave Storm Drain and Roadway

Task 3: CMR Storm Drain:

Provide analysis of watershed surrounding the CMR substation site, investigation of existing stormwater facilities and connections, and develop stormwater design alternatives. Support field survey and coordination meetings with BART and the City of Concord. HNTB proposed a storm drainage solution under the proposed CMR substation but was directed to review alternatives to eliminate a storm drain facility under the substation due to concerns for future maintenance.

Prime: HNTB-FMG, Joint Venture

Subconsultants: None

Total Work Plan Value: \$ 980,000