

BART Agreement Number: 6M8143

Approval Date: 02/24/26

Work Plan A.14-01 Design Services during Construction (DSDC) and Bid Support for MacArthur Underpass Lighting Improvement Project

Scope:

This Work Plan covers Procurement and Design Support (DSDC) during Construction for BART MacArthur Station Underpass Lighting Improvement Project. The DSDC services will be provided up to the allocated budget. Budget for change orders and unknown scope of work will be allocated as contingency budget and will be used on as needed bases upon approval of scope and fee by BART project manager.

These additional services fall outside the scope of the originally agreed-upon Work Plan (A.02-01) as well as previously executed Amendments 2 (A.02-02) and 3 (A.02-03).

2.0 ADDITIONAL SERVICES TO BE PERFORMED BY CONSULTANT

Task 0: Additional Project Management & Administration for DSDC

- Project management support for Design Services During Construction (DSDC). See section 4 - Schedule for further details.
- PM to attend bi-weekly 30-minute construction progress meetings set up by BART staff and CM Team. Design consultant team members from each discipline: Electrical, Structural and Cost Estimate will participate, when necessary.
- Setup and attend kick-off meeting with HDR, BART staff and CM team.
- Design Quality management process set up with BART for RFI response, Submittal reviews and Change Orders. Arup will support CM team and HDR with document control.
- Progress report preparation.
- Confirm scope of work requirements are met:
 - Scope changes or additional requests to be discussed with BART and path forward on amending this work plan will be given within 7 business days of additional scope request.

Task 1: Procurement and Bid Support

Scope of work includes procurement support in preparation for the Invitation for Bid package. This includes:

- Attend Pre-Bid meeting.
- Respond to Pre-Bid questions as the subject matter expert.
- Evaluate proposals as needed.

Task 2: Design Services During Construction (DSDC)

The Consultant (Arup) will provide construction administration support for the CM Team / BART PM in managing construction work done by BART and/or by Contractors through project closeout including the following tasks:

- Respond to requests for information (RFI's) as directed by the PM/CM Team. RFI's will typically be responded to within five (5) working days.
- Review submittals typically within ten (10) working days of receiving the submittals.
- Attend construction meetings onsite or via teleconference as requested by the CM team/BART PM, local staff up to two (2) per month.
- Attend site visits to observe equipment testing and critical construction activities, conduct field investigations and as requested by the PM/CM Team, up to ten (10) site visits total for design staff from included:
 - Conduct site visits including punch list items, quantity as noted in the deliverables section. Support the PM/CM Team in preparing punch lists during Final Inspection. Project punch list closeout will be initiated and tracked by BART CM team.
 - Assist with programming and commissioning of lights, quantity as noted in the deliverables section.
 - Following formal notification of systems commissioning completion from the contractor, provide a site review observing system operations, as noted in the deliverables section.
 - Structural observation site visit as noted in the deliverables section.
- Review Change Notices and Change Orders by Contractors and/or BART PM/CM.
- Support the project team for design changes by providing new and/or revised signed documents (specifications, drawings, sketches, etc.) and cost estimates. Provide a time estimate indicating when the supporting documents and estimates will be completed. The time estimate response shall be within seven (7) working days of being notified of the change.
 - Estimated amount of change orders to be up to three (3). Each change order scope will be identified and agreed to by BART along with the anticipated schedule and engineering cost to complete.
 - Change Order Review Process and Approval:
 - Potential Design Change Order to be requested by BART and CM team.
 - BART/CM Team to assign the proper CO# and name for HDR/Arup to use on the revised plan set for submittal.
 - BART/CM team will maintain document control process and provide access to the final conformed set for Arup to have the latest version of the plans and specifications that are to be modified per the specific change order request and scope.
 - Each change order will be its own specific revised design package submittal for review and comment.
 - Design period will be based on the extent of the change order request. A design submittal schedule and cost estimate for each change order will be developed and submitted to BART for approval prior to commencing.
 - Each change order will go through one revision at most.
 - First submittal will be sent to BART for review and approval.
 - 15-day BART review (including reviews from Engineering, O&M, and CM teams) time-period. BART to provide comments or approval to proceed with IFC issuance of the change order package.

- If comments are received, Arup to review and respond to comments and send back to BART and CM Team for review.
 - BART will then schedule a Comment Resolution Meeting (CRM) to discuss and close out comments before proceeding with revising the package.
 - Arup will move forward with revising the design plans, specifications and calculations pertaining to that specific change order and will resubmit to BART for formal approval.
 - BART will provide final approval of that specific change order and BART CM team will upload that change order set of revised plans and place within the document control system as part of the latest conformed set of project documents.
 - BART and/or Contractor will be responsible for permitting and authorizations needed for new set of documents.
- When requested, assist BART in the review of Notice of Potential Claims and Claims.
 - Support the CM team with coordination and document control as needed. BART will lead the document control and coordination with the Contractors.
 - Support BART with the review of as-builts by Contractor, prepared per BART standard CADD requirements.
 - Arup can provide one (1) set of conformed drawings upon request.
 - Other duties and design service as identified by the Electrical Engineering team and BART. Personnel will need to coordinate/work with Traction Power Engineering for Design related scope/deliverables.
 - These additional requests will be provided with coordination of BART PM and construction team, the amount of effort needed for these additional tasks will be discussed and approved by BART prior to commencing work due to the limited budget and hours approved as part of this work plan proposal.

Prime: HDR

Subconsultant	Amount
ARUP	\$ 269,514

Total Work Plan Value: \$ 311,958