

Work Plan No. A.06.01 Arborist Services

Scope:

3.1 HIGH HAZARD TREE ASSESSMENT AND REPORTS

For areas identified in Appendix A perform a walking Level 1 limited visual assessment of the trees on the BART right-of-way only to identify observable tree parts with a probable or imminent likelihood of failure and a moderate or high likelihood of impact to tracks. Perform Level 1 limited visual assessment of the trees on the BART right-of-way only to identify areas. Initial assessment will be conducted using the following methods:

- Train trailing cab, accompanied by BART staff during daytime revenue service. The consultant shall utilize consultant provided video equipment to record the tree review for record keeping purposes,
- Walking,
- Biking,
- Driving,

Consultant shall meet with BART Maintenance staff to identify limits of tree canopies that impact the BART right-of-way. Assume four meetings at BART Project Manager's request.

Consultant shall complete a Level 1 limited Visual Assessment of trees for all tracks, yards, gap breakers, train control rooms, substations, and passenger station sites that support trees. Trees to be observed may lie outside of the BART right-of-way.

Any trees identified as having an elevated likelihood of failure during level 1 assessments will be further assessed by the consultant utilizing a Level 2 Assessment. Assessment levels are defined by the International Society of Arboriculture ISA.

See schedule and deliverables section below for additional information.

3.2 POST-STORM TREE ASSESSMENT AND REPORTS

At the request of the BART Project Manager, Consultant shall complete a post-storm tree report after a major storm. Assessment shall be performed from the train trailing cab utilizing consultant provided video equipment, accompanied by BART staff. Any trees identified as potentially hazardous will be further assessed by consultant utilizing a Level 2 Tree Assessment. Assume trailing cab rides on two separate days. BART anticipates up to three (3) reports each year. Report shall be provided within 21 days of the request. See deliverables section below for more information.

Proposal assumption for fee allocation: each post-storm assessment should assume two half days of train trailing-cab review and one additional half day of site visit if trees of concern are identified. Up to three post-storm reports per fiscal year are assumed unless BART directs otherwise.

- A/S Line - Lake Merritt Station to Berryessa Station
- K/C Line - MacArthur Station to Pittsburg Bay Point Station
- R Line - MacArthur Station to Richmond Station
- M/W/Y Line - West Oakland Station to Millbrae Station
- L Line - Bay Fair Station to Dublin/Pleasanton Station

3.3 SUPPLEMENTAL TREE ASSESSMENT AND REPORTS

Consultant shall conduct supplemental tree reports as requested by the Project Manager on an as-needed basis, for up to 10 supplemental tree reports during the Agreement term. Supplemental reports may be requested in an emergency basis to analyze tree failure and therefore may include short notice (same day request) on weekends or nights.

Consultant shall complete a site visit(s) using Level 1 Limited Visual Assessment. Any trees identified as identify observable tree parts with a probable or imminent likelihood of failure and a moderate or high likelihood of impact to tracks will be further assessed with a Level 2 tree Assessment. Supplemental tree reports shall assess specific tree(s) or area(s) identified by the Project Manager. Supplemental reports may include both high and moderate hazard trees as requested by the project manager. Report shall be provided within 21 days of the request. See deliverables section below for additional information.

Proposal assumption for fee allocation: assume ten supplemental assessments per fiscal year, each consisting of one three-hour site visit at specific locations selected by BART and a report for each assessment.

3.4 TRAINING

Consultant shall provide one training event each agreement year to cover hazardous tree identification, with Grounds staff. The training events will include one hour of instruction and discussion. Location and schedule to be determined by BART Project Manager.

Prime: HNTB-FMG JV

Subconsultant	Amount
HortScience Bartlett Consulting	\$ 450,000

Total Work Plan Value: \$ 491,851