

APPENDIX 23 - Design for Tree Protection Zone

For effective tree protection on site:

- the knowledge and understanding of tree protection and active participation of all levels of the project management, design and construction team is required.
- team work is essential.
- planning and demarcation of an adequate tree protection zone at the initial planning and design stage is essential; not as an after thought.
- the objective is to prevent damage rather than undertake remedial work afterwards since most damage is irreversible and cumulative.
- the major threats to trees in works areas are compaction, root damage and change in level. Robust protection fence shall be installed at the beginning of the construction phase and last through out the construction to protect trees.
- no dumping, storage of materials, change in level, excavation, cutting of roots/ branches or parking is allowed within the fenced area of the tree protection zone.
- regular inspection to check the health and structural condition of trees in construction site is required.
- contractors shall be reminded of their responsibilities under the contract to protect trees in construction site. Poor performance in tree works / protection should be reflected in contractor's performance reports.

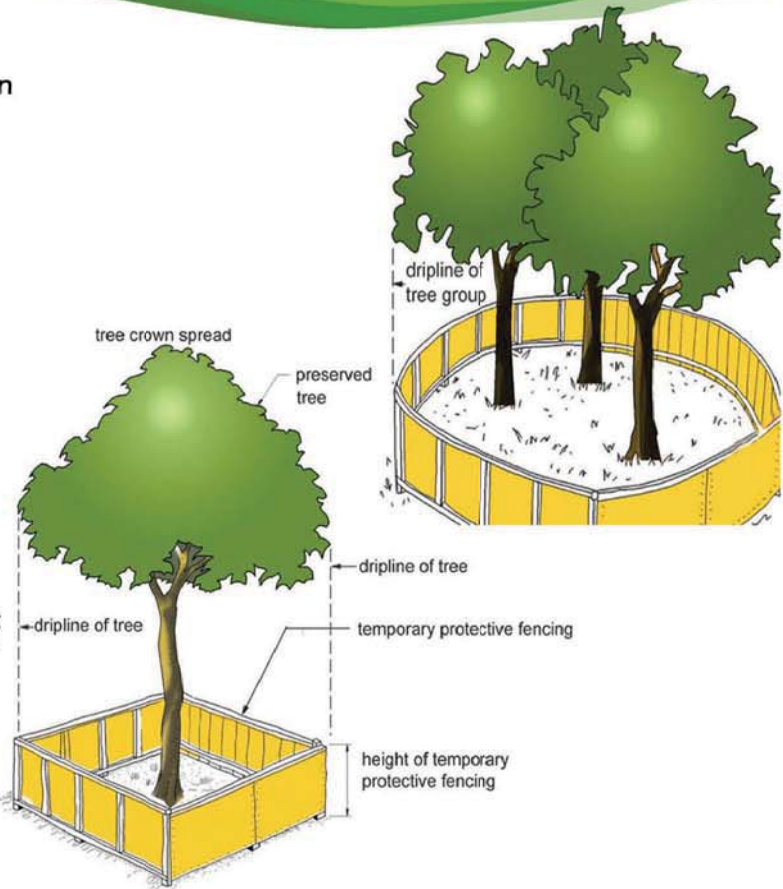


Diagram 1 Installation of robust fencing at tree protection zone throughout the construction period is required. (dripline is a good reference though consideration of larger zone is required for older trees) No construction activity, dumping, storage of material and parking is allowed within the fenced area. (Multiple trees above, Single tree below)

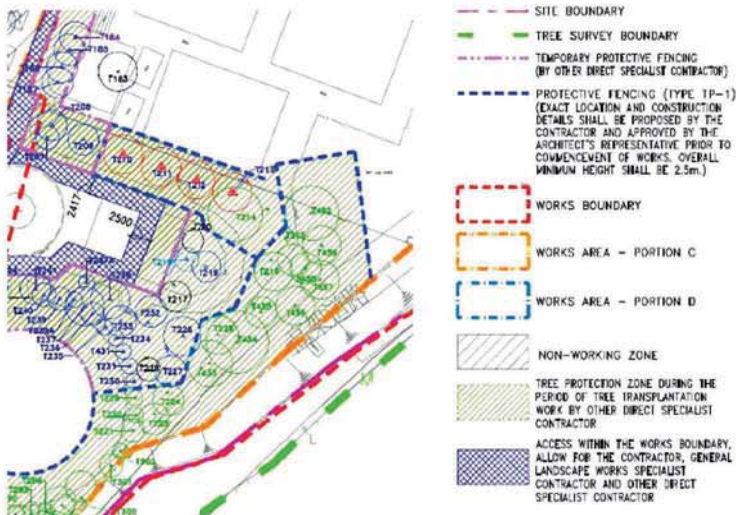


Diagram 2 Tree Protection Plan is a part of the contract drawings: with levels, tree protection zone, circulation routes indicated.

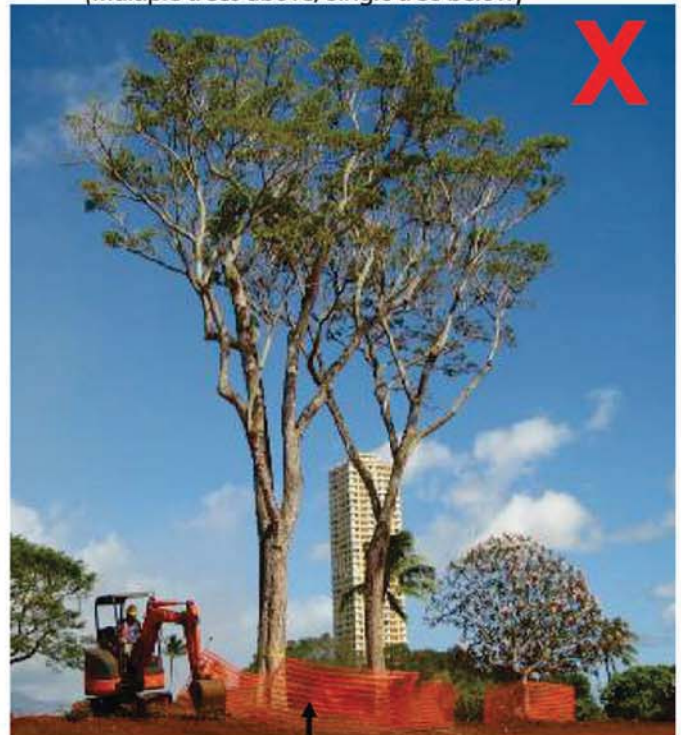


Photo 1 Weak fencing is not enough for protecting trees in construction site.