Gara BESS

Landscape Concept Plan

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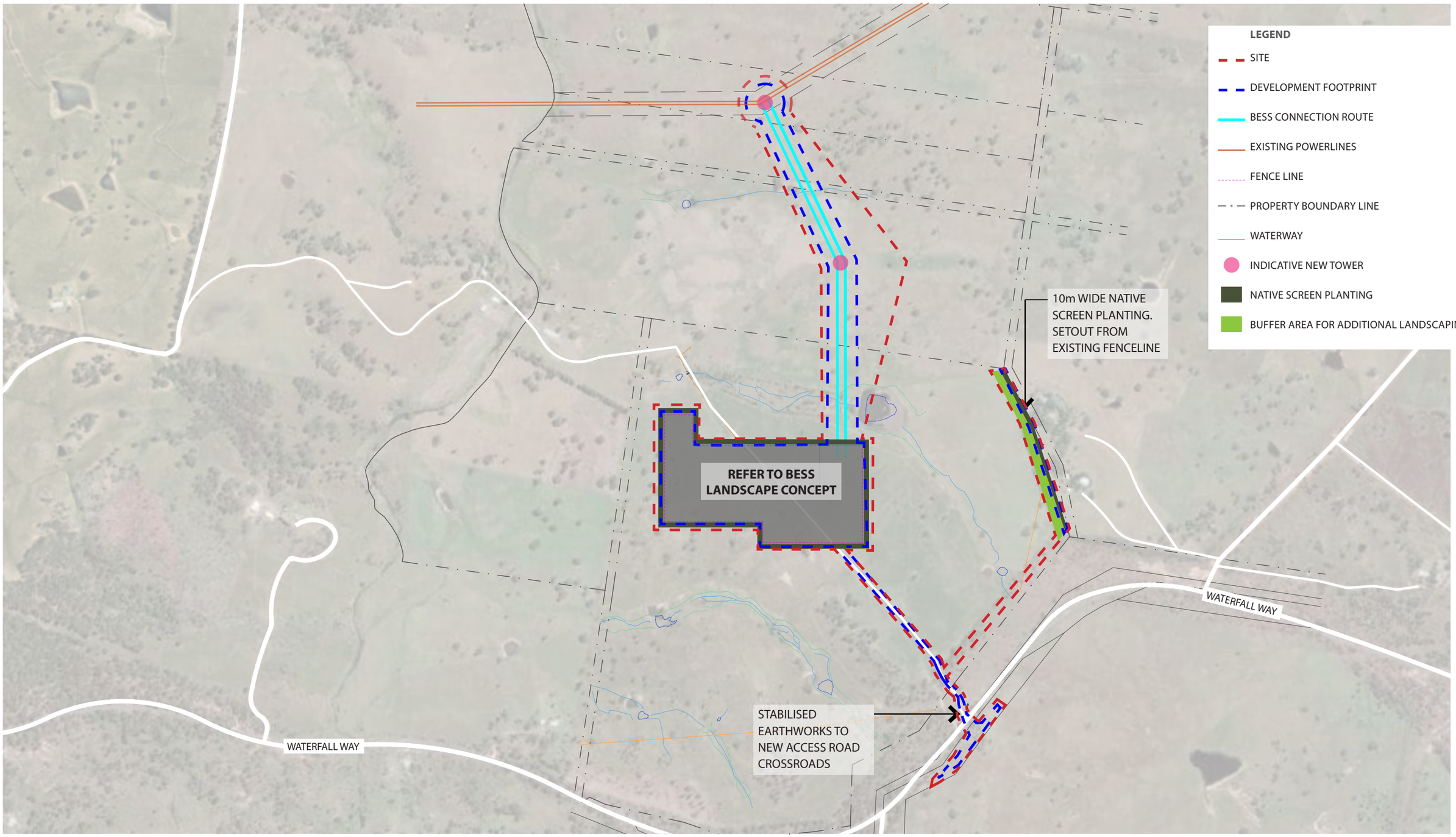
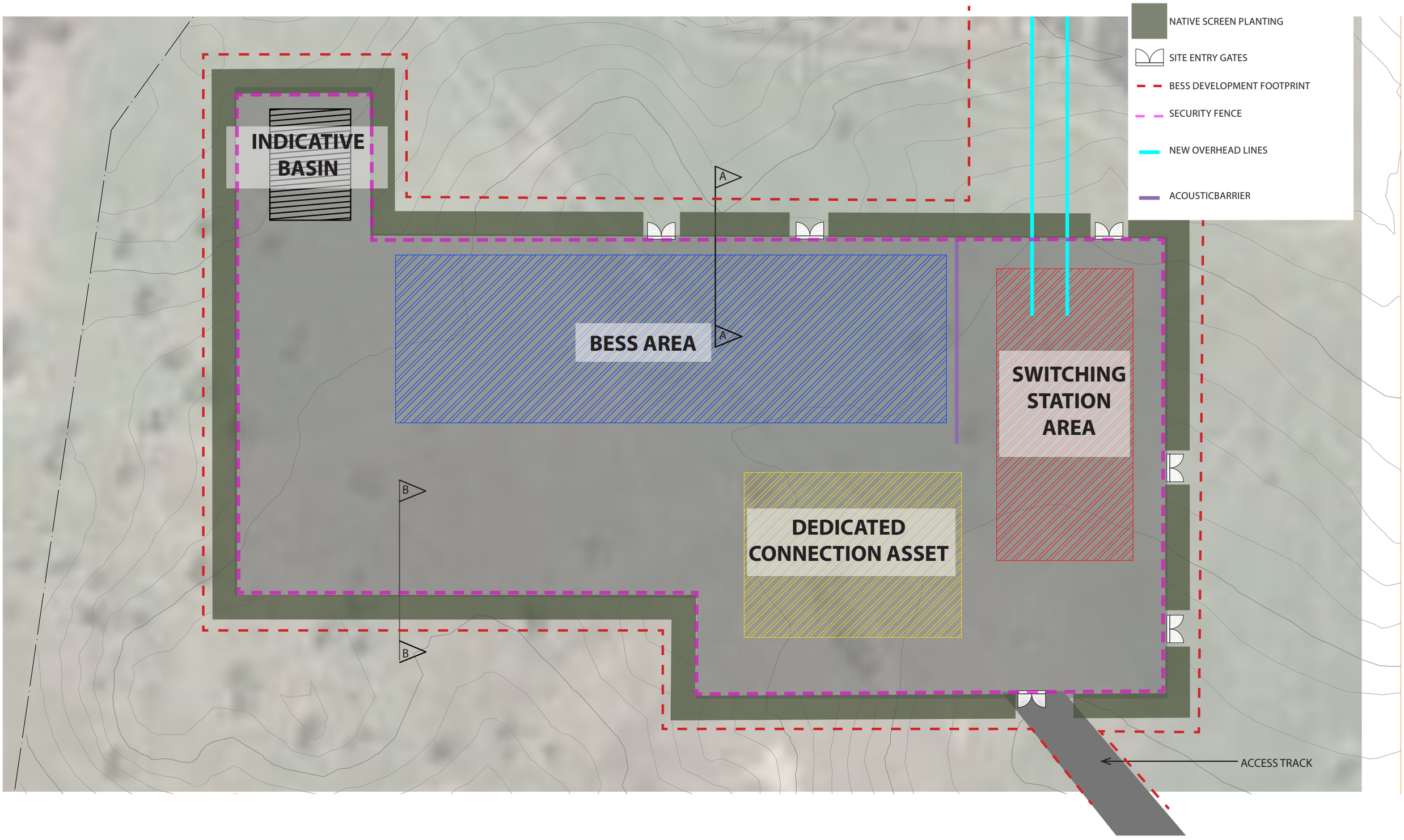
1.0 Overall Site Landscape Concept Plan



Scale 1:5000 @ A3 0 200 400 1000m

1.0 BESS Landscape Concept Plan



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0 20 40 100m 200m

2.0 Landscape Type - Native screen planting

General Notes

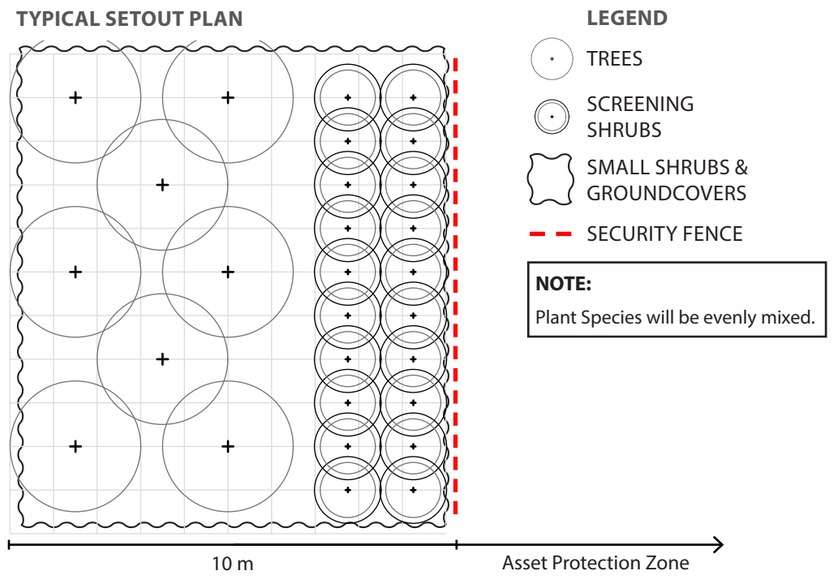
A mix of native trees and shrubs with a dense and compact habit have been selected to provide maximum screening effect.

The plant list has been prepared from; NSW Flora Online – PlantNET – All taxa collected in a 1km radius around Armidale (30.5036° S, 151.6523° E).

The plant list includes a mix of long-lived species, and fast growing 'pioneer species' such as the 'Acacia *dealbata* - Silver Wattle'. Pioneer species establish quickly and form an effective visual screen in the short term. While some of these pioneer species are relatively short lived (i.e. 7-12 years), they will disperse seed and new plants will regenerate so that a self-sustaining vegetation screen is maintained over the long term. Pioneer species assist with weed management, fix nitrogen in the soil and support the growth of longer-lived species, such as Eucalypts.

Typical Plant Set out Detail (Indicative)

Trees and shrubs will be staggered to maximise the screening effect as per the following diagram.



Revegetation Notes

- Revegetation works shall be scheduled for seasons when evaporation and plant transpiration are low, typically autumn through to early spring. Only plant when there is a good soil moisture profile.
- The revegetation contractor shall engage a suitably qualified Agronomist to undertake soil testing and prepare written recommendations for soil amelioration suitable for the specified planting.
- Planting area to be slashed and sprayed with a knock-down herbicide.
- Soil to be ripped to 300mm depth in a minimum of two passes. Rip subsoil parallel to the contours where possible. Do not rip if subsoil is wet or plastic.
- Incorporate ameliorants strictly in accordance with the Agronomist's written recommendations.
- Cultivation or harrow planting area to break-up larger soil clods and reduce air-pockets.
- Planting areas to be covered with 100mm thick well composted organic mulch (to hold moisture and supress weeds)
- Plants shall be 50 x 50 mm tubestock or similar. Plants shall be vigorous, well established, of good form, not soft or forced, free from disease and insect pests. They shall have large healthy root systems, not root bound and all trees with a single leading shoot appropriate to their natural form. All plants are sun hardened to the site climatic conditions.
- Controlled / slow-release fertilizer, minimum 6 month, shall be placed in each planting hole at the time of planting in accordance with the manufacturer's application rate.
- All plants shall be installed with a biodegradable 'tree guard' (Grow tube). Nom 450mm high, staked in accordance with the manufacturer's written recommendations.
- Actively maintain the planting during 12 week establishment period, followed by a 21 month monitoring period (total of 24 months)

Activities during establishment and monitoring periods shall include:

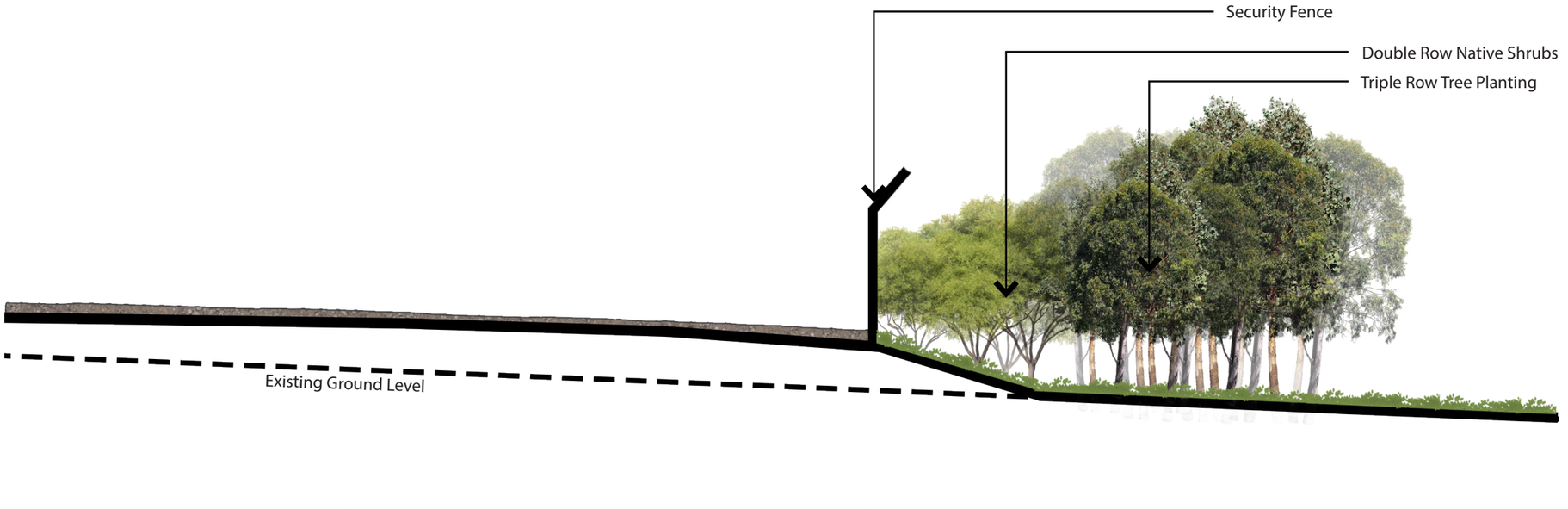
- o Maintaining moisture levels to prevent plants from drying out and to provide optimum conditions for plant establishment and growth.
- o Managing weed infestations. Weed control preferably by hand removal or by registered application of herbicide.
- o Replacing dead and missing plants with identical species. If a particular plant species has a high mortality rate consideration may be given to a substitution of a more suitable plant species.
- o Replacing damaged or missing tree guards and ensure that trees and guards are secure to their stakes.
- o Removing tree guards when the plants are 1.5m times the height of the guard.
- o Provide slow-release fertilising (3–6 month) of plant material suffering discoloration by placing fertiliser around plant stem or use spiking method to reduce surface weed growth.
- o Monitor all plants for health and disease. Where necessary seek written recommendations from a suitably qualified horticulturalist and implement accordingly.

Plant Species List

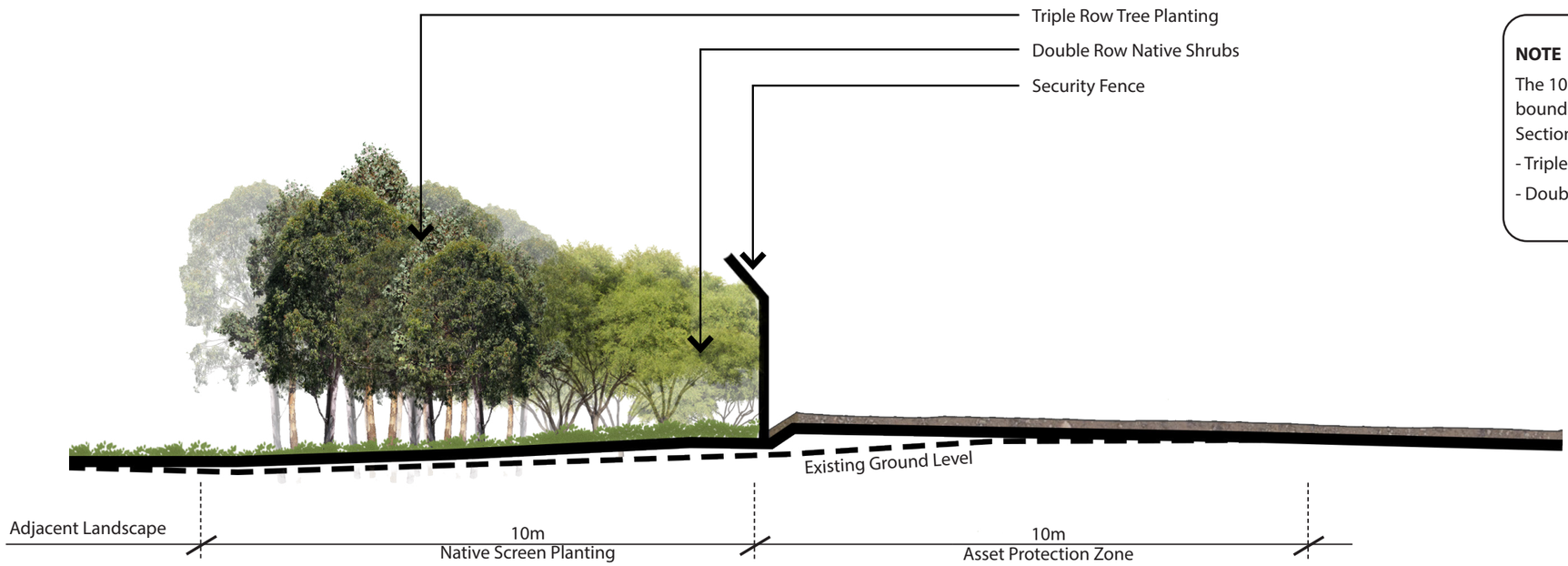
Scientific Name	Common Name	Height at Maturity (m)
Canopy Trees		
Acacia dealbataw	Silver Wattle	12 - 15
Acacia filicifolia	Fern-Leaved wattle	3 - 14
Acacia fimbriata	Fringed Wattle	6 - 7
Acacia floribunda	White Sally Wattle	6 - 8
Allocasuarina littoralis	Black She oak	5 - 15
Acacia viscidula	Sticky Wattle	5 - 8
Allocasuarina littoralis	Black She oak	5 - 15
Eucalyptus crenulata	Victorian Silver Gum	10 - 12
Eucalyptus nicholii	Narrow-Leaved Peppermint	15 - 18
Eucalyptus pauciflora	Snow Gum	5 - 15
Eucalyptus prava	Orange Gum	10- 15
Eucalyptus stellulata	Black Sallee	10 - 15
Leptospermum polygalifolium	Yellow Tea Tree	1 - 3
Screening Shrubs		
Acacia rubida	Red-Stemmed Wattle	1.5 - 5
Baeckea angusta	Clarence River Baeckea	2 - 3
Bursaria spinosa	Blackthorn	5 - 10
Callistemon pungens	Lana Bottlebrush	1 - 4
Callistemon sieberi	River Bottlebrush	0.6 - 6
Hakea salicifolia	Willow leafed Hakea	4 - 5
Leptospermum brevipes	Grey Tea Tree	1 - 4
Leptospermum minutifolium	Small Leaf Tea Tree	1 - 2
Small Shrubs & Groundcovers		
Lomandra longifolia	Mat Rush	0.6-0.9

3.0 Typical Sections - Native Screen Planting

A



B



NOTE

The 10m wide Native Screen planting on the eastern boundary will be the same configuration as shown in Sections A & B:

- Triple Row Tree Planting , and
- Double Row Native Shrubs

Scale 1:100 @ A3

0 1 2 5m