



### TREE PROTECTION FENCING

### TREE PROTECTION MEASURES

The protection measures for the proposed and existing trees to protect the tree protection zone as described in Section 3. Each site will have different tree protection requirements. The specific advice of the project should be sought where necessary. A TPZ is determined by setbacks calculated for each tree based on its size, exposure and crown spread (where necessary) and each tree fenced off to form an enclosure around the tree with the use of a fence, or any other an existing structure being retrofitted as a wall or fence. The TPZ should be secured by a lockable gate to restrict access and the area identified with signage. The area of the TPZ should be mulched except where turfed, and kept free of weeds. Where enclosures are required within the TPZ this should be done only with the approval of the project architect.

**Signage**  
Signage identifying the TPZ should be placed around the edge of the TPZ and be visible throughout the development site. The signage on the sign should comply with AS 1919. See TREE PROTECTION SIGN DIAGRAM for an example.

#### RESTRICTED ACTIVITIES WITHIN THE TPZ

- Activities to be restricted from the TPZ include:
  - Storage of materials;
  - Operation of chemicals, including preparation of cement products;
  - Parking of vehicles and plant;
  - Reloading;
  - Dumping of waste;
  - Cleaning of equipment;
  - Placement of fill;
  - Lighting of trees;
  - Soil level changes; and
  - Temporary or permanent installation of utilities and signs.

**NOTE:** Any encroachment into the TPZ requires additional tree protection measures in consultation with a person suitably experienced and competent in arboriculture.

#### PROTECTIVE FENCING

The TPZ will usually be delineated by protective fencing. Fencing needs to be erected before any materials or machinery are brought on the site and before any demolition or development, including erection of site sheds, is commenced (except for tree removal, pruning or remediation). Once erected, protective fencing should not be removed or altered without prior approval by the project architect. The fencing needs to be sturdy and not readily moved or blown over to ensure that the area is not entered or used. Fencing used needs to be self-supporting and of a minimum height of 1.8 metres and type such as chain wire or reinforcing mesh and concrete posts. Chain wire or reinforcing mesh fencing to reduce the impact of other particles and liquids into the protected area. Where fence posts are placed in the ground within the TPZ, they should not be drilled and be located so as to avoid damage to roots with a diameter greater than 20 mm. The TPZ should be secured by a lockable gate to restrict access. Existing perimeter fencing may be suitable as part of the protective fencing, where appropriate.

#### TREE PROTECTION FENCE DIAGRAM

The diagram illustrates the placement of protective fencing. Where possible, measures should also be taken to protect the root zone outside the TPZ if roots outside the TPZ must be removed, they should be pruned with a final cut to undamaged wood to promote root growth and to minimize entry to decay causing pathogens.

#### Mulch

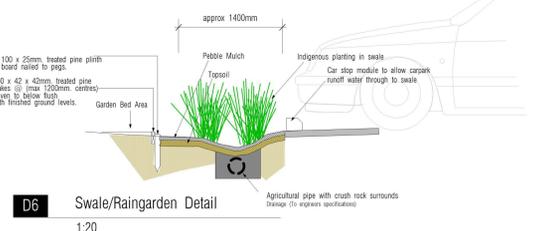
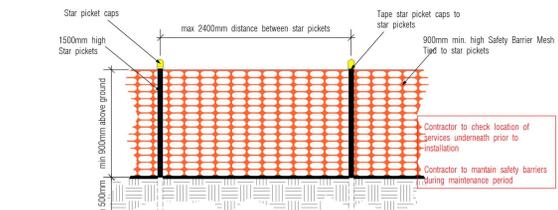
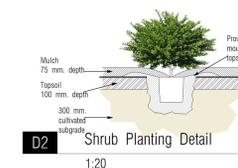
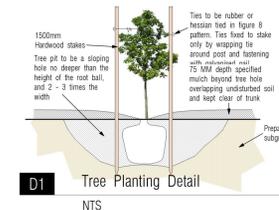
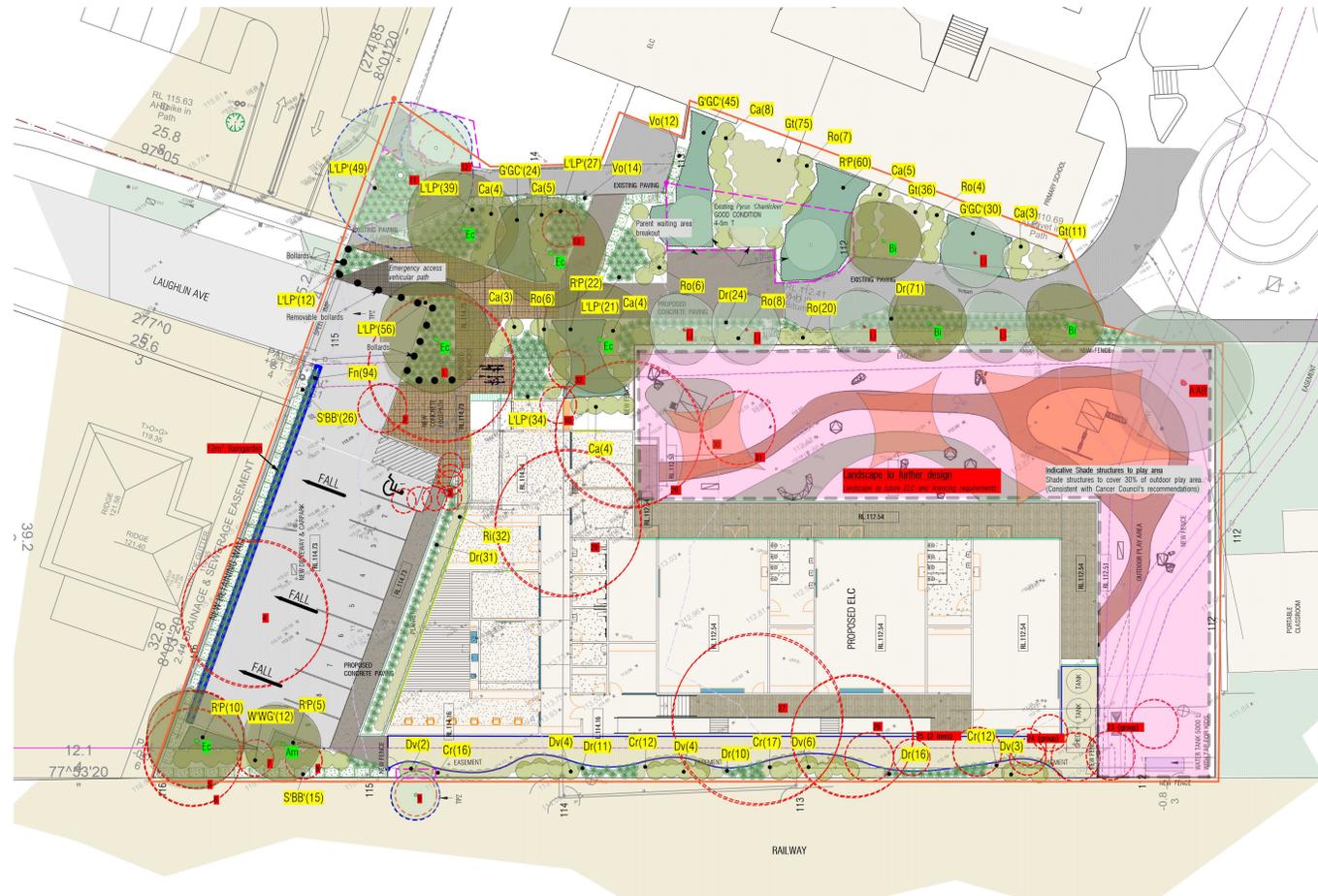
All weeds should be removed by hand or poisoned with minimal use of herbicide and without soil disturbance. The area within the TPZ should be mulched. The mulch must be maintained at a uniform cover of 100 mm depth using organic material such as hardwood chips. Soil testing may need to be installed around the edges of the fence in readily eroded soil or on steep sites. Where the existing landscape within the TPZ is to remain undisturbed (e.g. garden beds or turf) mulch may not be required.

#### Watering

Temporary irrigation or watering may be required within the TPZ. An irrigation system should be installed and maintained by a competent individual. Soil moisture levels should be regularly monitored by the project architect. Avoid and avoid products. Where necessary, avoid protection to the trunk and branches of the trees as shown below. The positioning of protection is to be specified by the project architect. A minimum height of 2 metres is recommended. Protection is illustrated in Figure 3.

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright.

### ADVERTISED PLAN



**WARNING NOTES**  
Service locations are not indicated on plan. Landscape Contractor to ascertain exact location onsite prior to commencement of construction works.  
Contractor is to check plant numbers and locations prior to start of project.

### PLANTING NOTES

**Planting Beds**  
75MM DEEP MR20 MULCH  
100MM DEEP APPROVED TOPSOIL  
300MM DEEP CULTIVATED SUBGRADE

**Cultivation**  
Mechanically deep cultivate to a minimum depth of 300mm all garden beds prior to spreading of imported topsoil. Accurately locate, prior to commencement of topsoil, all in-ground services and ensure that these are not disturbed during cultivation.

**Imported Topsoil**  
General : To AS 4419 and AS/NZ ISO 9002.  
Import topsoil unless the topsoil type can be provided from material recovered from the site. A minimum of 100mm organic garden mix is required in all garden beds.

**Final Grading**  
Finish garden beds to give a gentle crowned appearance or finish flush with paved surfaces and kerbs.  
Grade areas evenly or to conform with levels indicated on the drawing.

**Maintenance & Establishment**  
Maintain and establish the works for 13 weeks, during which make good all defects.

### LANDSCAPE KEY

- PROPOSED HEDGING PLANTS
- PROPOSED SHRUB PLANTS
- PROPOSED GROUNDCOVERS & TUFTING PLANTS
- PROPOSED DECIDUOUS TREES
- PROPOSED EVERGREEN TREES
- TREES TO BE RETAINED  
Protection measures to be implemented
- TREES TO BE REMOVED
- TREE PROTECTION ZONE  
1.8m high cyclone fencing  
Refer to TREE PROTECTION MEASURES
- TREE PROTECTION ZONE (Blue)/  
STRUCTURAL ROOT ZONE (Red)
- INDICATIVE SHADE STRUCTURES  
35% cover to outdoor play area
- REMOVABLE BOLLARDS/  
PERMANENT BOLLARDS
- PROPOSED RAINGARDEN  
12M
- GRANITIC GRAVEL  
(PERMEABLE/COMPACTED WITH  
TIMBER EDGE)
- GRASS AREA
- SELECTED PAVING
- PROPOSED CONCRETE PAVING  
(BROOM FINISH)  
Refer to civil drawings
- EXISTING PAVING
- PROPOSED CARPARK PAVING

### EXISTING TREE SCHEDULE

Tree No	Botanical Name	Common Name	Origin	DBH (cm)	Broad Base (cm)	Height (m)	Spread (m)	Health	Structure	Age Class	Arbor Value	Ownership	Protect Value	SPZ (m)	TPZ (m)	Encroach (%)	Notes
1	Eucalyptus radiata	Narrow-Leaved Peppermint	Indigenous	385/276	102	12	10	Good	Fair-Good	Mature	High	Project Site	High	3.3	8.4	84%	Minor deadwood
2	Liquidambar styraciflua	Liquidambar	Exotic	17	22	6.5	4	Good	Fair-Good	Semi-Mature	High	Project Site	None	1.8	2.0	100%	Codominant stems
3*	Camellia japonica	Camellia	Exotic	Multi-stem	Approx. 15	5	2.5	Good	Fair	Semi-Mature	Medium	Project Site	None	1.5	2.0	100%	Group of 7, Pohutukawa, Camellia, Nuxia, Bottlebrush, Dionaea
4	Salix babingtonia	Weeping Willow	Exotic	Multi-stem	Approx. 8	12	Good	Fair	Mature	Medium	Project Site	Moderate	3.0	9.7	100%	Deadwood	
5	Prunus dulcis	Almond	Exotic	12/12/22 (28)	22	6	6	Fair-Good	Fair	Mature	Medium	Project Site	None	1.8	3.4	100%	Fig tree growing through canopy
6	Ficus carica	Common Fig	Exotic	Multi-stem	Approx. 45	5	6	Fair-Good	Fair	Semi-Mature	Medium	Project Site	None	2.4	5.4	100%	Multi stem from base
7	Citrus x limon	Lemon	Exotic	7/10/12	16	3	3	Fair-Good	Fair-Poor	Semi-Mature	Low	Project Site	None	1.5	2.0	100%	Wound with decay in main stem
8	Citrus x limon	Lemon	Exotic	Multi-stem	15	2	3	Fair-Good	Poor	Semi-Mature	Low	Project Site	None	1.5	2.0	100%	Ground heave
9	Eucalyptus incornuta	Yellow Gum	Vic Native	Approx. 15	20	6	4	Fair-Good	Fair	Semi-Mature	Medium	Vic Rail	High	1.7	2.0	0%	On train line, higher soil grade on train line side
10	Callistemon holosericeus	Hibiscus	Aus Native	9/11/14	23	4.5	4	Fair	Poor	Semi-Mature	Low	Project Site	None	1.8	2.0	100%	Split stem
11	Eucalyptus cephalocarpa	Silver-Leaved Stringybark	Indigenous	3176/59 (80)	118	12	14	Good	Fair	Mature	Medium	Project Site	Moderate	3.5	10.4	13%	Split crossing stems
12	Eucalyptus cephalocarpa	Silver-Leaved Stringybark	Indigenous	3500/40	45	5	4	Fair	Poor	Mature	Low	Project Site	None	2.4	4.8	0%	Lopped stems
13	Robinia umbroscifera	Mopoop	Exotic	21	22	3	2	Good	Fair	Semi-Mature	Medium	Project Site	None	1.8	2.5	0%	Low landscape value
14	Pyrus calleryana	Callery Pear	Exotic	23	26	6	4	Good	Fair	Semi-Mature	Medium	Project Site	None	1.9	2.8	0%	Acute unions
15	Pyrus calleryana	Callery Pear	Exotic	32	37	7	5	Good	Fair	Semi-Mature	Medium	Project Site	None	2.2	3.8	0%	Acute unions
16	Pyrus calleryana	Callery Pear	Exotic	23/21 (31)	26	7	7	Good	Fair	Semi-Mature	Medium	Project Site	None	1.9	3.7	0%	Acute unions
17	Jacaranda monosperma	Jacaranda	Exotic	13	15	4.5	3.5	Good	Fair	Semi-Mature	Medium	Project Site	None	1.5	2.0	0%	Low landscape value
18*	Lepidospermum jacksonii	Lemon-Scented Tea-Tree	Aus Native	Multi-stem	Approx. 15	4	3	Good	Fair	Semi-Mature	Medium	Project Site	None	1.5	2.0	0%	Group of 2
19	Juniperus chinensis 'Spartan'	Conifer-Spartan	Exotic	Multi-stem	Approx. 15	5	2	Good	Fair	Semi-Mature	Medium	Project Site	None	1.5	2.0	0%	Low landscape value
20*	Lepidospermum jacksonii	Lemon-Scented Tea-Tree	Aus Native	8/13 (15)	17	4	3	Good	Fair	Semi-Mature	Medium	Project Site	None	1.6	2.0	0%	Group of 2
21	Juniperus chinensis 'Spartan'	Conifer-Spartan	Exotic	Multi-stem	Approx. 15	6	2	Good	Fair	Semi-Mature	Medium	Project Site	None	1.5	2.0	0%	Low landscape value
22*	Pittosporum tenuifolium	Kohuhu	Exotic	Multi-stem	15	3	2	Good	Fair-Poor	Semi-Mature	Low	Project Site	None	1.5	2.0	0%	Group of 4
23*	Acacia melanocoryna	Blackwood	Indigenous	16	23	7.5	4	Good	Fair	Semi-Mature	Medium	Project Site	Moderate	1.8	2.0	100%	Group of 4
24*	Acacia verticillata	Prickly Moses	Indigenous	Multi-stem	17	4.5	4	Fair-Poor	Fair-Poor	Semi-Mature	Low	Project Site	None	1.6	2.0	100%	Group of 4, 3 in poor health
25*	Acacia melanocoryna	Blackwood	Indigenous	13	16	6.5	3.5	Good	Fair	Semi-Mature	Medium	Project Site	None	1.5	2.0	3%	Group of 2
26	Corymbia maculata	Spotted Gum	Vic Native	45	58	17	6.5	Good	Fair-Good	Mature	High	Project Site	High	2.6	5.4	100%	
27	Pinus pinaster	Martinez Pine	Exotic	79	87	19	13	Fair	Fair-Good	Mature	Medium	Project Site	Moderate	3.1	9.5	100%	Thin canopy
28	Eucalyptus cephalocarpa	Silver-Leaved Stringybark	Indigenous	16/36/48/58 (90)	86	13	10	Good	Fair	Mature	Medium	Project Site	Moderate	3.1	10.8	100%	Acute unions
29	Eucalyptus goniolepis	Long-Leaved Box	Indigenous	79	122	14	9	Good	Fair	Mature	Medium	Project Site	Moderate	3.6	9.5	100%	Lopped stem, epicormic growth
30	Pyrus calleryana	Callery Pear	Exotic	Approx. 15	Approx. 17	7	2	Fair-Good	Fair	Semi-Mature	Medium	Project Site	None	1.6	2.0	0%	Low landscape value
31	Pyrus calleryana	Callery Pear	Exotic	19/11 (22)	26	8	4	Good	Fair	Semi-Mature	Medium	Project Site	Moderate	1.9	2.6	0%	Lopped branches
32	Robinia umbroscifera	Mopoop	Exotic	15	18	3.5	3	Fair	Fair	Semi-Mature	Medium	Project Site	None	1.6	2.0	0%	Low landscape value

### MAINTENANCE NOTES

**General**  
Maintain and establish the works for the scheduled period as specified, during which make good all defects. Maintenance and Establishment means the care and maintenance of the contract area by accepted horticultural practices, as well as rectifying any defects that become apparent in the works under normal use. This includes, but is not necessarily limited to the following items where as required:  
watering, weeding, pest and disease control, staking, replanting, cultivation, pruning, maintaining site neat and tidy.

**Attendance Log**  
Supply a detailed program of maintenance for approval by owner within seven (7) days of tender acceptance and keep a log of attendance/replacement costs as the basis for progressive claims sought during the maintenance period.

The Maintenance and Establishment monetary allowance in the Contract Sum may be varied (decreased/increased) to suit prevailing climatic conditions during the Maintenance and Establishment period and to ensure that specified maintenance items are attended to periodically and horticultural practices implemented.

**Commencement of Maintenance & Establishment**  
Give owner 7 days notice that the works are reaching practical completion and are ready for the commencement of the maintenance/establishment period. Owner will inspect the works and if any defects or deficiencies are found they will be rectified within 14 days.

**Protection**  
Protect all planted areas from damage, either malicious, irresponsible or accidental.

**Mulched Surfaces**  
Maintain all mulched surfaces in a clean and tidy condition and be reinstated if necessary, as specified.

**Spraying**  
Spray against insect and fungus infestation if considered necessary. Carry out all spraying in accordance with the manufacturer's directions.

**Planted Areas**  
Throughout the duration of the Contract, the contractor is to maintain the individual trees in a weed free watering radius of minimum diameter of 1m.

**Weeding and Rubbish Removal**  
During the Maintenance & Establishment period remove by hand any rubbish and weed growth that may occur re-occur throughout the contract area. This work is to be carried out regularly so that at weekly intervals the area may be observed in a completely clean and tidy condition.

### PLANTING SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	MATURE SIZE	INSTALLED SIZE	INSTALLED HGT	QTY
TREES						
Am	Acacia melanocoryna*	Blackwood	12.0 x 6.0m	40L	2200mm	1
AMB	Azaraea Blane Freeman Maple	Azaraea Blane Freeman Maple	12.0 x 8.0m	40L	2200mm	1
Bl	Banksia integrifolia	Coast Banksia	10.0 x 5.0m	40L	2200mm	3
Ec	Eucalyptus cephalocarpa*	Mealy Stringybark	12.0 x 7.0m	40L	2200mm	5
Li	Lagerstrœmia indica 'Tancarville'	Crape Myrtle	6.0 x 4.0m	40L	2200mm	7
SHRUBS & GRASSES						
Ca	Correa alba	White Correa	1.2 x 1.5m	200 mm	300mm	96
Cr	Correa reflexa	Common Correa	1.0 x 1.0m	200 mm	200mm	57
Dv	Dianella revoluta*	Flax Lily	1.0 x 0.6m	TUBE	300mm	163
Hg	Hag Bush	Hag Bush	4.0 x 1.5m	200 mm	300mm	19
He	Hebe Club-ledge	Hebe Club-ledge	1.0 x 0.8m	TUBE	200mm	34
G/C	Grevillea 'Gaudi Chaudi'	Gaudi Chaudi Grevillea	0.4 x 2.0 m	150 mm	200mm	89
Gr	Grevillea lanigera M. Tamborini	Rosemary Grevillea	0.5 x 1.0m	150 mm	200mm	122
L/P	Lamandra 'Little Par'	Fine Leaved Lamandra	0.5 x 0.5m	150 mm	300mm	238
WWS	Westringia Myrsinoides Gert	Westringia Myrsinoides Gert	1.2 x 1.5m	150 mm	300mm	126
BL	Banksia integrifolia	Cosmic Pink Banksia	0.8 x 0.8m	200 mm	300mm	325
Rp	Rosa rugosa	Rosemary	1.0 x 1.5m	200 mm	200mm	51
RPI	Rosa rugosa	Prostrate Rosemary	0.2 x 1.0m	150 mm	150 mm	97
SBB	Syringium 'Backyard Bliss'	Backyard Bliss Lily Pilly	3.0 x 1.0m (hedged)	250 mm	500mm	41
Vi	Viburnum adpressatum	Sweet Viburnum	1.2 x 1.5m (hedged)	250 mm	500mm	26

POINT ISSUE  
1 No.11.07.24 CLIENT PRELIM  
1 No.15.07.24 CLIENT TOWN PLANNING  
1 No.18.09.24 CLIENT TOWN PLANNING



SCALE 1:250@A0  
PROJECT 24032  
DATE JULY 2024  
DWG REF 24032.L1.mxd  
DRAWN TA

CLIENT Nunawading Christian College ELC  
SITE 161 Central Road  
NUNAWADING  
Landscape Planting Plan

L1a