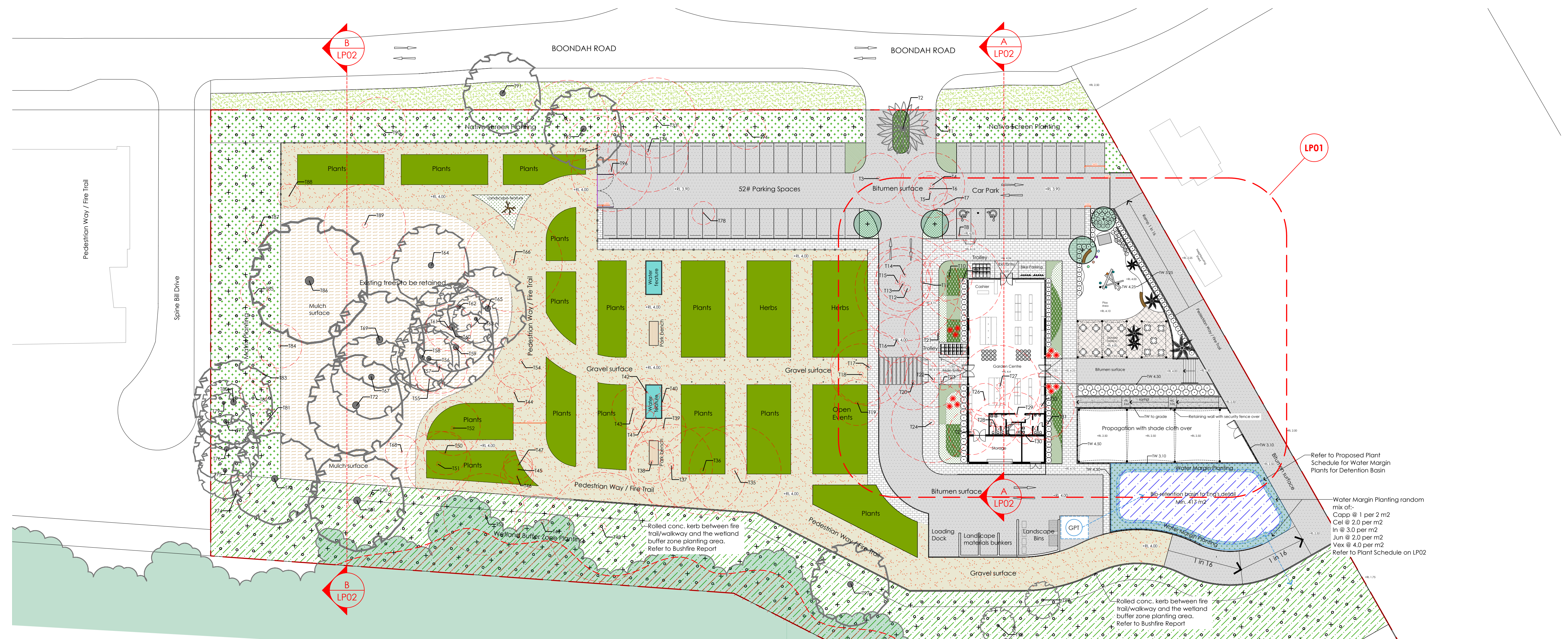


Rev.	Description	Date
K	DA Submission	04-06-2024
J	DA Submission	15-05-2024
I	DA Submission	02-05-2024
H	DA Submission	24-04-2024
G	DA Submission	22-04-2024
F	DA Submission	19-04-2024
E	DA Submission	05-04-2024
D	DA Submission	26-03-2024
C	DA Submission	22-03-2024
B	DA Submission	20-03-2024
A	Concept	18-03-2024



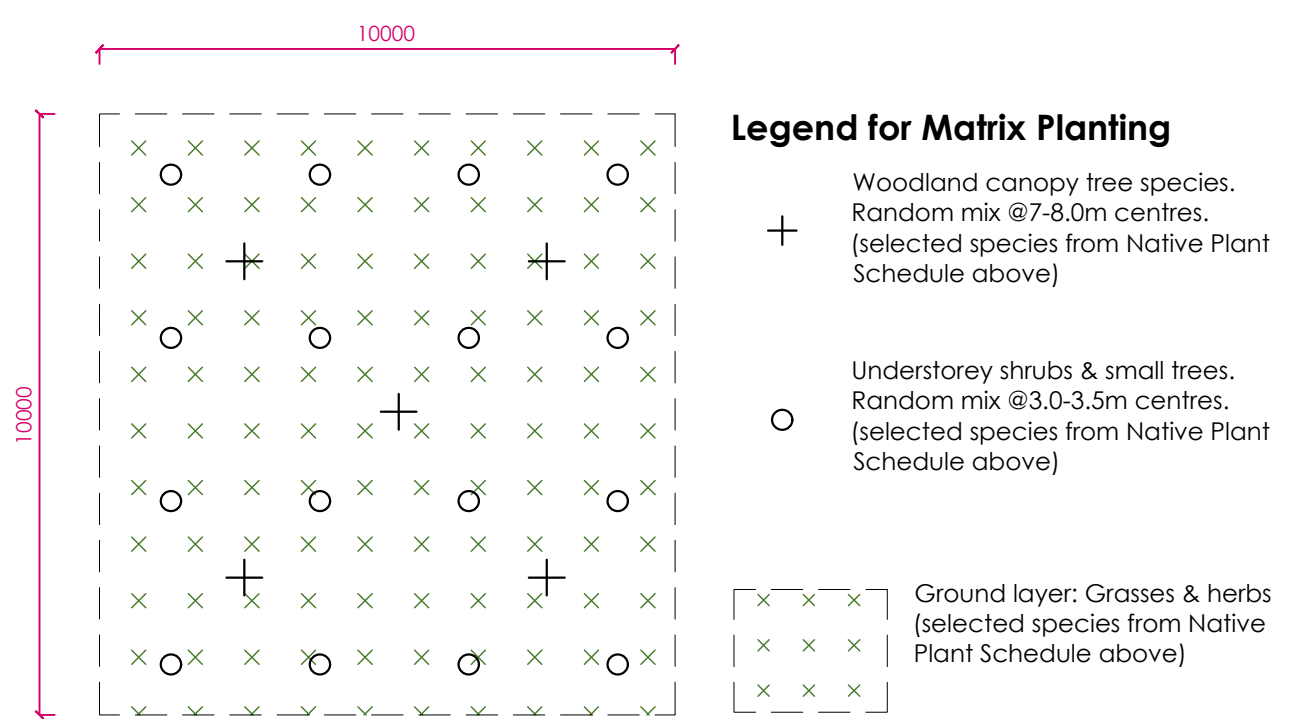
**LANDSCAPE SITE PLAN**      **scale: 1-400 @ A1**

**LEGEND**

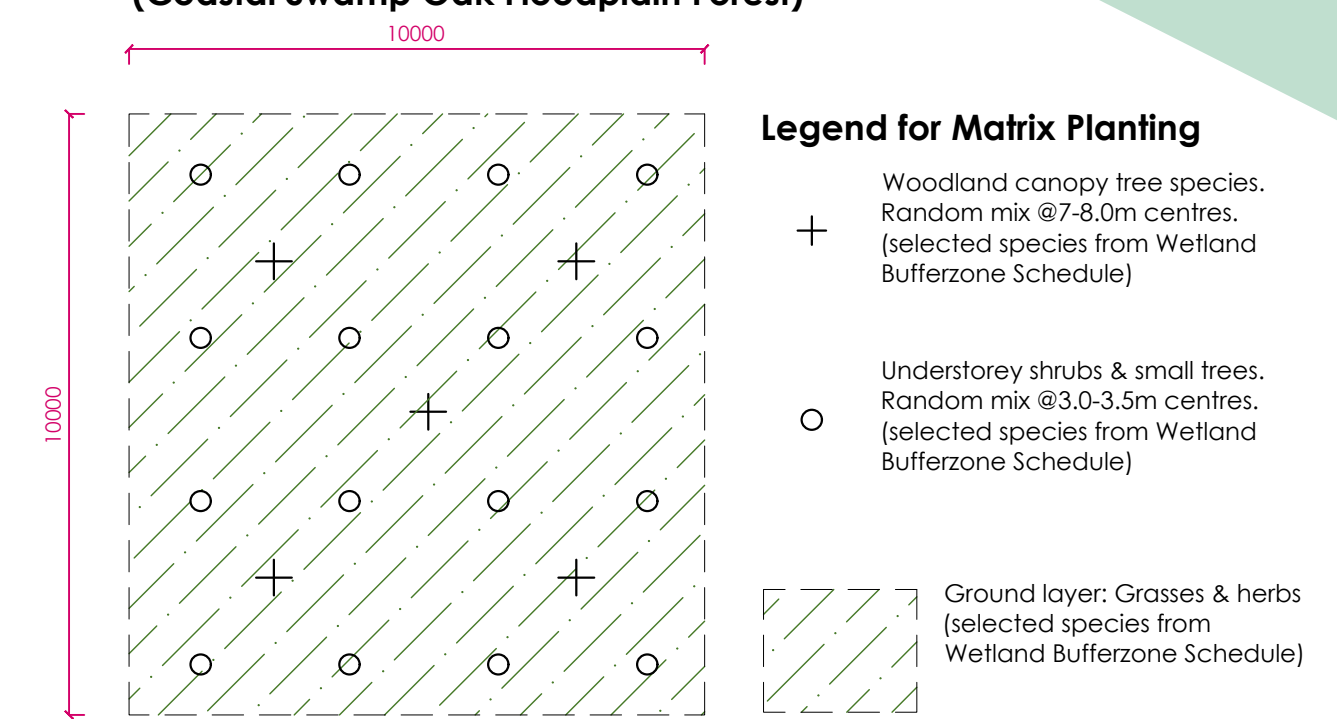
- Site boundary
- Area for placing nursery plants
- Amenity planting area
- Ornamental water feature
- Existing tree to be retained (refer to **EXISTING TREE SCHEDULE**)
- Existing tree to be removed (refer to **EXISTING TREE SCHEDULE**)
- Proposed new tree (refer to **PROPOSED PLANT SCHEDULE**)
- Tile paving
- Compacted gravel surface
- Bitumen surface
- Concrete paving
- Park bench
- Design levels
- Nominated location for bio retention basin. Subject to Eng's detail
- Wetland Buffer Zone Planting Refer to Matrix Planting
- Water margin planting for detention basin. Refer to Proposed Plant Schedule
- Nominated location for Gross Pollutant Trap. Subject to Eng's detail
- Mulch surface
- Exclude new tree planting under canopies of existing trees

**Matrix Planting**

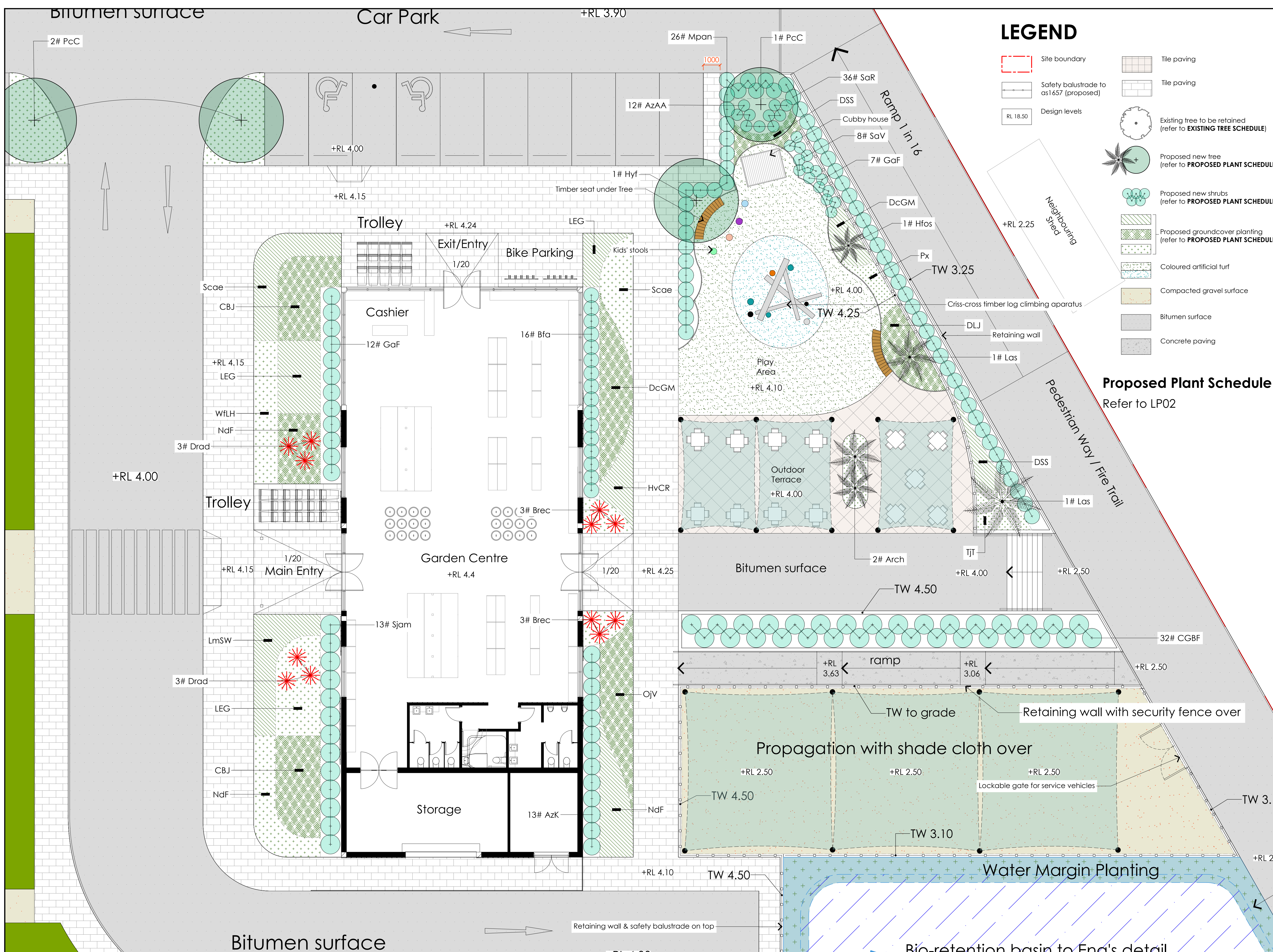
Matrix Planting for Street Frontage & Side Boundary Planting



Matrix Planting for Wetland Buffer Zone Planting (Coastal Swamp Oak Floodplain Forest)







### LEGEND

- Site boundary
- Safety balustrade to as1657 (proposed)
- Design levels
- RL 18.50
- Tile paving
- Tile paving
- Existing tree to be retained (refer to EXISTING TREE SCHEDULE)
- Proposed new tree (refer to PROPOSED PLANT SCHEDULE)
- Proposed new shrubs (refer to PROPOSED PLANT SCHEDULE)
- Proposed groundcover planting (refer to PROPOSED PLANT SCHEDULE)
- Coloured artificial turf
- Compacted gravel surface
- Bitumen surface
- Concrete paving

**Proposed Plant Schedule**  
Refer to LP02

**COPYRIGHT**  
These designs, plans and specifications are the copyright and property of John Chetham & associates and must not be used, reproduced or copied wholly or in part without the written permission of John Chetham & associates.

**SCALE:**  
1:100 @ A1 or 1:200 @ A3

Do not scale this drawing. All dimensions are to be verified on site and any discrepancies to be reported prior to commencement any work or shop drawing being undertaken.

**ARCHITECTS:**  
**BUCHAN**

**LANDSCAPE ARCHITECTS:**  
**Urban Designers Landscape Architects**  
John Chetham & Associates  
P.O. Box 287, Gladstone NSW 2111  
email: jca@jca.net.au  
tel: 0419 629 987

**JOB NUMBER:**  
10BR/LP/DA

**PROJECT:**  
Proposed Nursery  
10 Boobdah Road,  
Warriewood

**CLIENT:**  
Henroth Group

Rev.	Description	Date
K	DA Submission	04-06-2024
J	DA Submission	15-05-2024
I	DA Submission	02-05-2024
H	DA Submission	24-04-2024
G	DA Submission	22-04-2024
F	DA Submission	19-04-2024
E	DA Submission	05-04-2024
D	DA Submission	26-03-2024
C	DA Submission	22-03-2024
B	DA Submission	20-03-2024
A	Concept	18-03-2024

**NORTH POINT:**

**SHEET TITLE:**  
Landscape Plan -  
Outdoor Play & Cafe Area

**SHEET NO.**  
**LP01**

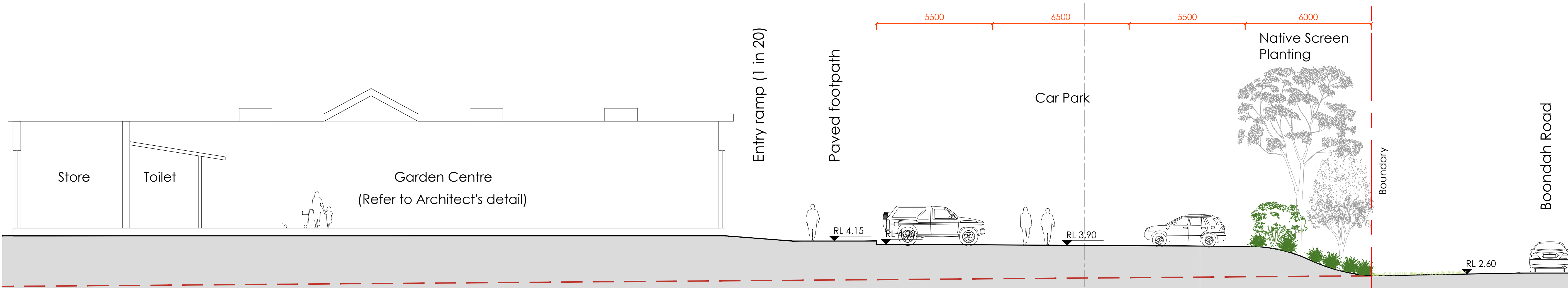
Drawn: YW  
Checked: JC  
Issue Date: 04-06-2024

**LANDSCAPE PLAN - Amenity Planting Around Building & Play Area**

scale: 1-100 @ A1

Bio-retention basin to Eng's detail





**SECTION A-A** scale: 1-100 @ A1



**SECTION B-B** scale: 1-100 @ A1

**PROPOSED PLANT SCHEDULE**

**Amenity Planting**

CODE	BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT	PO	W.R	NO.
<b>TREES</b>							
Hfos	<i>Howea forsteriana</i>	Kentia Palm	1.5m stem	12.0m	N	**	1
Hyt	<i>Hymenosporum flavum</i>	Native Frangipani	200 Litre	12.0-15.0m	N	**	1
Las	<i>Livistona australis</i>	Cabbage Tree Palm	3.0m stem	20.0m	N	*	2
PcC	<i>Pyrus calleryana 'Chanticleer'</i>	Chanticleer Ornamental Pear	200 Litre	8.0-11.0m	E	**	3
Pcom	<i>Prunus campanulata</i>	Formosan Cherry	100 Litre	4.0m	E	**	3
Arch	<i>Archontophoenix cunninghamiana</i>	Bangalow Palm	2.0m stem	15.0-20.0m	N	**	2
<b>SCREEN &amp; BARRIER SHRUBS</b>							
AzA	<i>Azalea Alphonse Anderson</i>	Alphonse Anderson Azalea	200mm	1.5m	E	**	12
AzK	<i>Azalea kurume</i>	Kurume Azalea	200mm	1.0m	E	**	13
Bfa	<i>Brunfelsia australis</i>	Yesterday, Today & Tomorrow	200mm	1.5m-2.0m	E	**	16
CGBF	<i>Callistemon Great Balls of Fire</i>	Great Balls of Fire Bottlebrush	200mm	1.3m	N	*	32
GoF	<i>Gardenia augusta 'Florida'</i>	Florida Gardenia	200mm	800mm	E	**	19
Mpan	<i>Murraya paniculata</i>	Cosmetic Bark Tree	200mm	2.0-3.0m	E	**	26
SaR	<i>Syzygium australe 'Resilience'</i>	Resilience Lilly Pilly	200mm	3.0-4.0m	N	*	36
SaV	<i>Schefflera arborescens 'Variegata'</i>	Dwarf Umbrella Plant	200mm	800mm	E	**	9
Sjam	<i>Streptosolen jamesonii</i>	Marmalade Bush	200mm	2.0-3.0m	E	**	13
<b>GROUND COVERS</b>							
DcGM	<i>Dianella caerulea Gold Mine</i>	Gold Mine Flax Lily	140mm	500mm	N	*	5
CBJ	<i>Callistemon Better John</i>	Better John Bottlebrush	140mm	600mm	N	*	5
DSS	<i>Dianella Silver Streak</i>	Silver Streak Flax Lily	150mm	500mm	N	*	5
HvCR	<i>Hardenbergia violacea 'Carpet Royale'</i>	Carpet Royale False Sarsaparilla	150mm	300mm	N	*	5
LEG	<i>Liriope muscari 'Evergreen Giant'</i>	Giant Liriope	200mm	500mm	E	**	5
LmSW	<i>Liriope muscari Stripey White</i>	Stripey White Lilly Turf	140mm	450mm	E	**	5
NdF	<i>Nandina domestica Flirt</i>	Flirt Nandina	140mm	350mm	E	**	6
Px	<i>Philodendron Xanadu</i>	Xanadu Philodendron	140mm	500mm	E	*	4
NdSQ	<i>Nandina domestica 'Seika Obsession'</i>	Seika Obsession Nandina	150mm	500mm	E	**	5
OIV	<i>Ophiopogon jabarans 'Vitalus'</i>	V oriegated Giant Mondo Grass	140mm	550mm	E	***	7
SAM	<i>Syzygium 'Alyn Magic'</i>	Alyn Magic Lilly Pilly	200mm	500mm	N	*	5
Scae	<i>Scaevola aemula Mauve Clusters'</i>	Fairy Fan-flower	100mm	300mm	N	**	6
WTLH	<i>Westringia fruticosa 'Low Horizon'</i>	Low Horizon Coast Rosemary	140mm	350mm	N	*	5
TJT	<i>Trachelospermum jasminoides Tricolor</i>	Tricolor Star Jasmine	200mm	350mm	E	**	4
<b>TURF</b>							
Turf	<i>Stenotaphrum 'St Walter'</i>	St Walter Buffalo Grass		Turf roll			
<b>ACCENT PLANTS</b>							
Brec	<i>Beaucarnea recurvata</i>	Pony Tail Palm	200 Litre	2.0-3.0m	E	**	6
Drad	<i>Dracaena draco</i>	Dragon Tree	110 litre	3.0-4.0m	E	*	6

**Front & Side Boundary and Bio-diversity Planting**

CODE	BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT	PO	WR	Total No.
<b>CANOPY TREES</b>							
Anc	<i>Acacia longifolia</i>	Sydney Red Gum	200mm	20-30.0m	N	*	2
Can	<i>Casuarina acutricarpa</i>	Tuckeroo	200mm	5.0m-8.0m	N	**	3
Casg	<i>Casuarina glauca</i>	Swamp Oak	200mm	8.0m-15.0m	N	*	3
Ebat	<i>Eucalyptus botryoides</i>	Bangalay / Southern Mahogany	200mm	20-30.0m	N	*	3
Gf	<i>Glochidion ferdinandi</i>	Cheese Tree	200mm	5.0-10.0m	N	**	3
Las	<i>Livistona australis</i>	Cabbage Tree Palm	2.0 Stem	20.0-25.0m	N	*	3
Mele	<i>Melaleuca ericifolia</i>	Swamp Paperbark	200mm	5.0-9.0m	N	**	3
Melin	<i>Melaleuca linearifolia</i>	Narrow-leaved Paperbark	200mm	5.0-8.0m	N	**	3
Syh	<i>Syzygium hemilampurum</i>	Broad-leaved Lilly Pilly	200mm	10.0-20.0m	N	*	3
Syn	<i>Syncarpia glomulifera</i>	Turpentine	200mm	20-30.0m	N	*	2
Random mix @ 7.0-8.0m centres subtotal: 28							
<b>UNDERSTOREY PLANTS</b>							
Acl	<i>Acacia longifolia</i>	Long-leaved Wattle	200mm	2.0-4.0m	N	*	15
Alvi	<i>Acacia longifolia var. longifolia</i>	Sydney Golden Wattle	140mm	4.0-6.0m	N	*	15
Bi	<i>Banksia integrifolia subsp. integrifolia</i>	Coast Banksia	140mm	4.0-6.0m	N	*	15
Byo	<i>Breytia oblongifolia</i>	Coffee Bush	140mm	2.0-3.0m	N	*	15
Hks	<i>Hakea salicifolia</i>	Willow Hakea	140mm	5.0-8.0m	N	*	15
Homp	<i>Homalanthus populifolius</i>	Bleeding Heart	140mm	3.0-5.0m	N	**	15
Kua	<i>Kunzea ambigua</i>	Tick Bush	140mm	3.0-5.0m	N	*	15
Lepl	<i>Leptospermum laevigatum</i>	Coast Teatree	140mm	3.0m	N	*	15
Mele	<i>Melaleuca ericifolia</i>	Bracelet Honey Myrtle	140mm	3.0m	N	*	15
Pol	<i>Polyscias sambucifolia</i>	Elderberry Panax	140mm	3.0m	N	*	15
Sasi	<i>Sarcocolla simplicifolia</i>	Bauerella	140mm	5.0-10.0m	N	*	15
Random mix @ 3.0-3.5m centres subtotal: 165							
<b>GROUND COVERS, HERBS &amp; GRASSES</b>							
Bro	<i>Breytia oblongifolia</i>	Coffee Bush	Tubestock	2.0-3.0m	N	*	300
Capp	<i>Carex appressa</i>	Tall Sedge	Tubestock	0.5-1.2m	N	**	300
Dcae	<i>Dianella caerulea var. caerulea</i>	NSW Flax Lily	Tubestock	500mm	N	*	300
Entm	<i>Entolasia marginata</i>	Bordered Panic	Tubestock	800mm	N	*	300
Ghc	<i>Gahnia clarkei</i>	Saw Sedge	Tubestock	0.8-1.5m	N	**	300
Hsc	<i>Hibbertia scandens</i>	Golden Guinea Vine	Tubestock	500mm	N	*	300
Hv	<i>Hardenbergia violacea</i>	Native Sarsaparilla Vine	Tubestock	350mm	N	*	300
Imc	<i>Imperata cylindrica var. major</i>	Blady Grass	Tubestock	1.2m	N	*	300
Li	<i>Lomandra longifolia</i>	Matt Rush	Tubestock	0.8-1.2m	N	*	300
Prat	<i>Pratia purpurascens</i>	White Root- Purple Pratla	Tubestock	200mm	N	*	300
Rpin	<i>Ricinocarpus pinifolius</i>	Wedding Bush	Tubestock	1.0-2.0m	N	*	300
Thea	<i>Themeda australis</i>	Kangaroo Grass	Tubestock	1.5m	N	*	300
Vh	<i>Viola hederacea</i>	Native Violet	Tubestock	50mm	N	*	300
Random mix @ 0.3-0.7m centres subtotal: 3900							
PO Place of Origin Native spp = N Exotic spp = E WR * Sydney Water Drop Rating							

**Wetland Buffer Zone Planting**

CODE	BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT	PO	WR	Total No.
<b>CANOPY TREES</b>							
Acpa	<i>Acacia paramattensis</i>	Sydney Green Wattle	140mm	8.0-15.0m	N	*	10
Anc	<i>Acacia longifolia</i>	Sydney Red Gum	140mm	20.0-30.0m	N	*	10
Casg	<i>Casuarina glauca</i>	Swamp Oak	140mm	12.0-18.0m	N	*	9
Ebat	<i>Eucalyptus botryoides</i>	Bangalay / Southern Mahogany	140mm	20.0-30.0m	N	*	9
Emic	<i>Eucalyptus microcans</i>	Tallowood	140mm	20.0-25.0m	N	*	9
Syn	<i>Syncarpia glomulifera</i>	Turpentine	140mm	20.0-30.0m	N	*	9
Random mix @ 7.0-8.0m centres subtotal: 56							
<b>UNDERSTOREY PLANTS</b>							
Ace	<i>Acacia elongata</i>	Swamp Wattle	Tubestock	3.0m	N	*	26
Alvi	<i>Acacia longifolia var. longifolia</i>	Sydney Golden Wattle	Tubestock	4.0-6.0m	N	*	26
Byo	<i>Breytia oblongifolia</i>	Coffee Bush	Tubestock	3.0m	N	*	26
Hks	<i>Hakea salicifolia</i>	Willow Hakea	Tubestock	4.0-6.0m	N	*	26
Hopo	<i>Homalanthus populifolius</i>	Bleeding Heart	Tubestock	6.0-8.0m	N	**	26
Kza	<i>Kunzea ambigua</i>	Tick Bush	Tubestock	3.0m	N	*	26
Mele	<i>Melaleuca ericifolia</i>	Bracelet Honey Myrtle	Tubestock	4.0-6.0m	N	*	26
Mele	<i>Melaleuca linearifolia</i>	Swamp Paperbark	Tubestock	4.0-6.0m	N	**	26
Myac	<i>Myoporum acuminatum</i>	Mangrove Boobialla	Tubestock	1.0-4.0m	N	***	26
Pol	<i>Polyscias sambucifolia</i>	Elderberry Panax	Tubestock	3.0-6.0m	N	*	26
Random mix @ 3.0-3.5m centres subtotal: 286							
<b>GROUNDCOVER, HERBS AND GRASSES</b>							
Capp	<i>Carex appressa</i>	Tall Sedge	Tubestock	0.5-1.2m	N	**	650
Ceas	<i>Centella asiatica</i>	Pennywort	Tubestock	150mm	N	***	650
Dcae	<i>Dianella caerulea</i>	NSW Flax Lily	Tubestock	500mm	N	*	650
Entm	<i>Entolasia marginata</i>	Bordered Panic	Tubestock	800mm	N	*	650
Ghc	<i>Gahnia clarkei</i>	Saw Sedge	Tubestock	0.8-1.5m	N	***	650
Ghcl	<i>Gahnia clarkei</i>	Tall Saw-Sedge	Tubestock	1.5m-2.0m	N	***	650
Imc	<i>Imperata cylindrica var. major</i>	Blady Grass	Tubestock	1.2m	N	*	650
Jupl	<i>Juncus planifolius</i>	Broadleaf Rush	Tubestock	1.0m-1.5m	N	***	650
Li	<i>Lomandra longifolia</i>	Matt Rush	Tubestock	0.8-1.2m	N	*	650
Pede	<i>Pericaria decipiens</i>	Slender knotweed	Tubestock	350mm	N	**	650
Prat	<i>Pratia purpurascens</i>	White Root- Purple Pratla	Tubestock	300mm	N	**	650
Thea	<i>Themeda australis</i>	Kangaroo Grass	Tubestock	1.5m	N	*	650
Random mix @ 0.3-0.7m centres subtotal: 7800							
PO Place of Origin Native spp = N Exotic spp = E WR * Sydney Water Drop Rating							

**Water Margin Planting for Detention Basin**

CODE	BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT	Nos. Sq metre	Total No.
Capp	<i>Carex appressa</i>	Tall Sedge	150mm	1m	0.5	63
Cel	<i>Centella asiatica</i>	Native Arthritis Plant	140mm	100mm	2	250
In	<i>Ischaemum nodosum</i>	Knobby Club-Rush	140mm	600mm	3	375
Jun	<i>Juncus subulatus</i>	Common Rush	140mm	1m	2	250
Vex	<i>Villosa exaltata</i>	Yellow Marsh Flower	140mm	1m	4	500

**COPYRIGHT**  
These designs, plans and specifications are the copyright and property of John Chetham & Associates and must not be used, reproduced or copied wholly or in part without the written permission of John Chetham & Associates.

**SCALE:**  
1:100 @ A1 or 1:200 @ A3  
METRES

Do not scale this drawing. All dimensions are to be verified on site and any discrepancies to be reported prior to commencement any work or shop drawing being undertaken.

**ARCHITECTS:**  
**BUCHAN**

**LANDSCAPE ARCHITECTS:**  
Urban Designers  
Landscape Architects  
John Chetham & Associates  
P.O. Box 287, Gladesville, NSW 2111  
email: jch@jca.net.au  
tel: 0419 629 987

**JOB NUMBER:**  
10BR/LP/DA

**PROJECT:**  
Proposed Nursery  
10 Boondah Road,  
Warriewood

**CLIENT:**  
Henroth Group

Rev.	Description	Date
K	DA Submission	04-06-2024
J	DA Submission	15-05-2024
I	DA Submission	02-05-2024
H	DA Submission	24-04-2024
G	DA Submission	22-04-2024
F	DA Submission	19-04-2024
E	DA Submission	05-04-2024
D	DA Submission	26-03-2024
C	DA Submission	22-03-2024
B	DA Submission	20-03-2024
A	Concept	18-03-2024

**NORTH POINT:**

**SHEET TITLE:**  
Landscape Section &  
Plant Schedule

**SHEET NO.**  
**LP02**

Drawn: YW  
Checked: JC  
Issue Date: 04-06-2024



**COPYRIGHT**  
 These designs, plans and specifications  
 the copyright and property of John  
 Cheltham & associates and must not be  
 used, reproduced or copied wholly or in  
 part without the written permission of John  
 Cheltham & associates.

**SCALE:**

1:400 @ A1 or 1:800 @ A3

Do not scale this drawing. All dimensions  
 are to be verified on site and any  
 discrepancies to be reported prior to  
 commencement any work or shop drawing  
 being undertaken.

**ARCHITECTS:**

**BUCHAN**

**LANDSCAPE ARCHITECTS:**

Urban Designers  
 Landscape Architects  
 John Cheltham & Associates  
 P.O. Box 287, Gladstone, NSW 2111  
 email: john@ujca.net.au  
 tel: 0419 629 987

**JOB NUMBER:**

10BR/LP/DA

**PROJECT:**

Proposed Nursery  
 10 Boobdah Road,  
 Warriewood

**CLIENT:**

Henroth Group

Rev.	Description	Date

A DA Submission 09-07-2024

**NORTH POINT:**

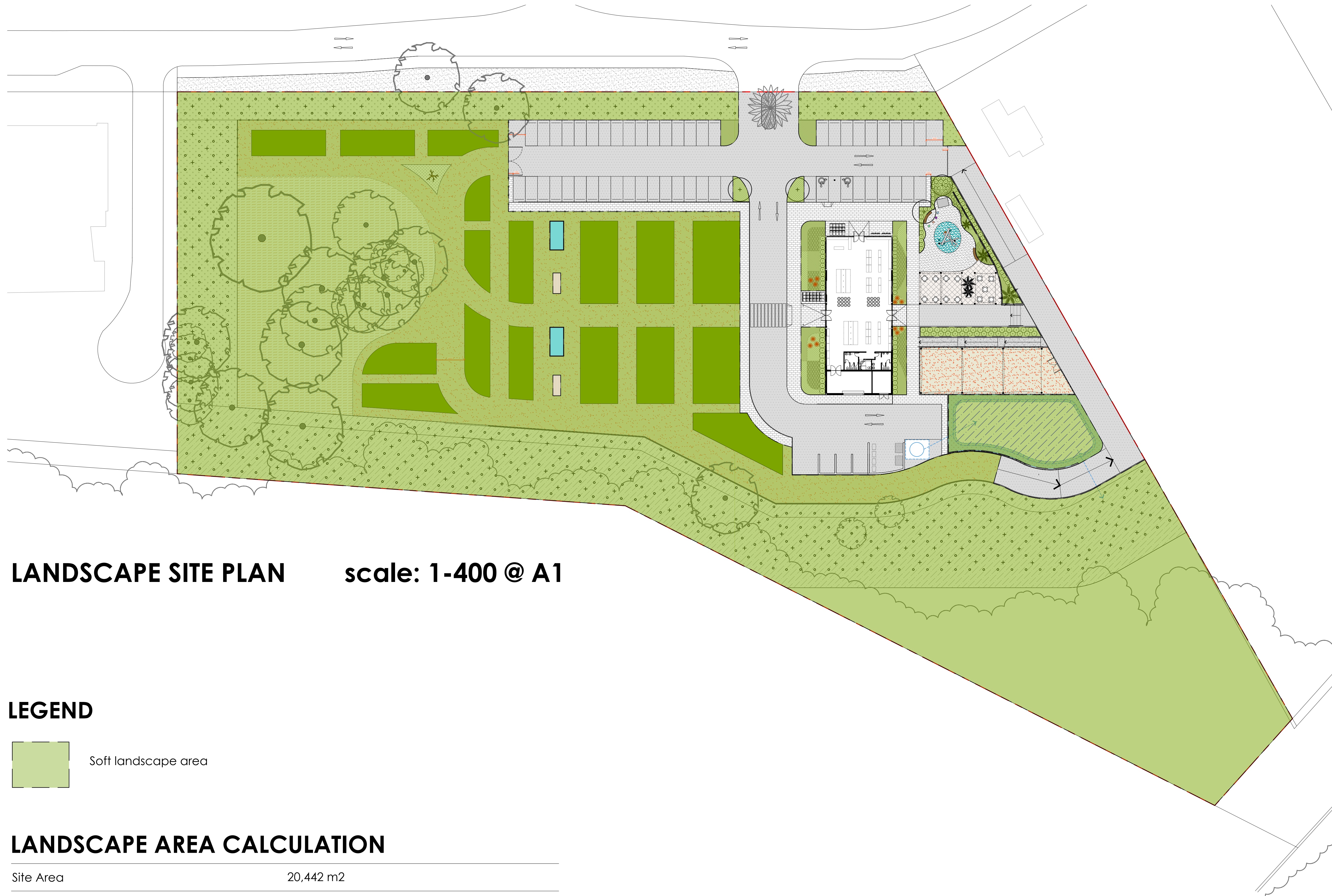
**SHEET TITLE:**

Landscape Calculation Plan

**SHEET NO.**

**LP03**

Drawn:	YW
Checked:	JC
Issue Date:	09-07-2024



**LANDSCAPE SITE PLAN scale: 1-400 @ A1**

**LEGEND**

Soft landscape area

**LANDSCAPE AREA CALCULATION**

Site Area	20,442 m2	
Proposed Landscape Area	15,317 m2	74.9 % of total site area

\* Landscape definition as per Council's DCP.