

NEW PRIMARY SCHOOL IN MULGOA RISE

LANDSCAPE DESIGN DRAWINGS

SSDA/ DECEMBER 2021

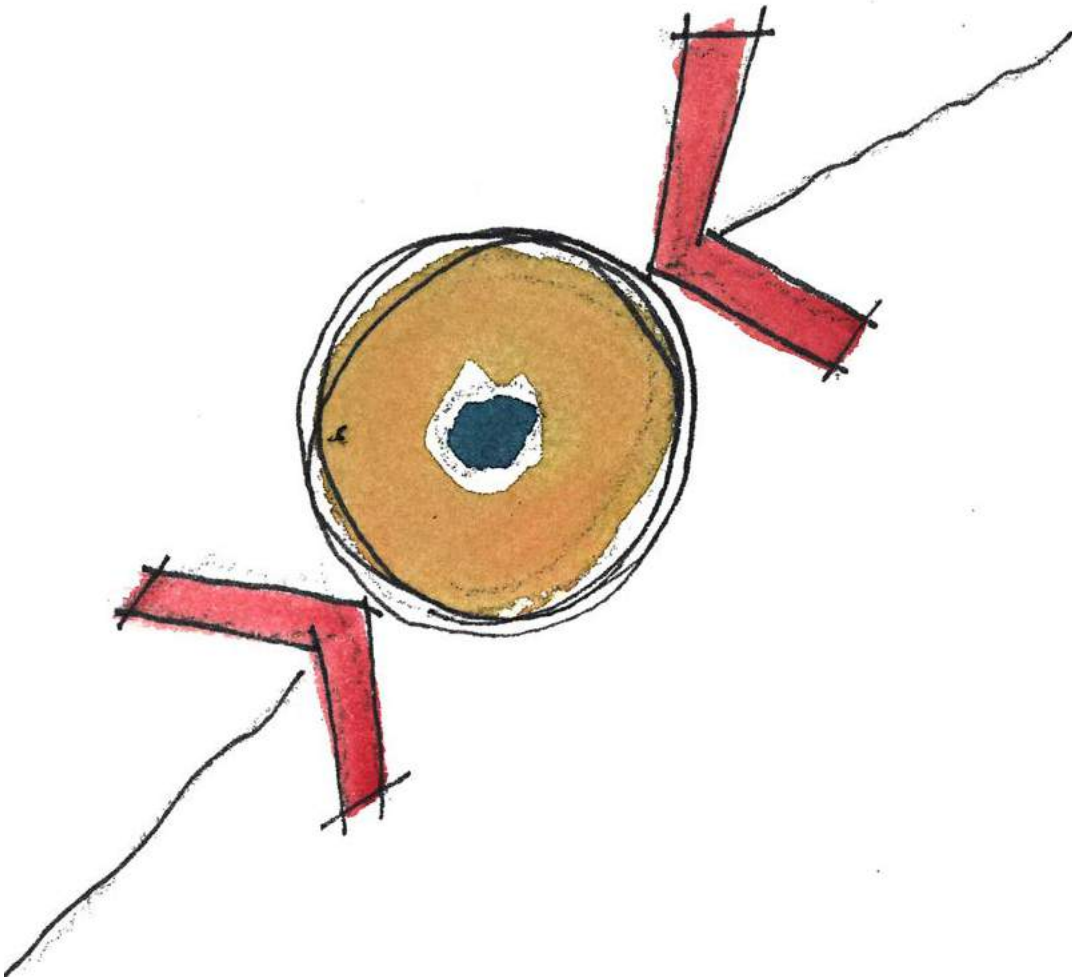
Document Control

Revision	Date	Description	By	Approved
1	05.05.21	SSDA FOR REVIEW	MF	AL
2	06.08.21	SSDA FOR REVIEW	MF	AL
3	11.08.21	SSDA FOR REVIEW	MF	AL
4	18.08.21	SSDA FOR REVIEW	MF	AL
5	11.11.21	ISSUE FOR SSDA RfS	MF	AL
6	17.12.21	ISSUE FOR SSDA RTS	MF	AL

VISION

“

The landscape design of the new primary school in Mulgoa Rise aims to create a meeting place for students and local communities which celebrates the original characters & culture of the land, encourages active and passive recreations and knowledge sharing beyond the classrooms.



DESIGN APPROACH



IDENTITY

- Promote the identity of the place through design interpretations of the site history.
- Respect and celebrate the characters and culture of the land.
- Select materials that are robust and unique to the environmental setting.
- As a landmark within this new community.



INCLUSIVITY & ACCESSIBILITY

- Ensure the design presents an accessible, inclusive, and welcoming environment, both physically and culturally.
- Create a safe and pleasant environment which encourages outdoor learning and activities.
- Ensure equal access is provided and structured to allow for clear circulation and connections.
- Allow for passive/dynamic play and learning spaces for different age groups.
- Provide access and connections to the natural environment that encourages learning and interactions.



SUSTAINABILITY & RESILIENCE

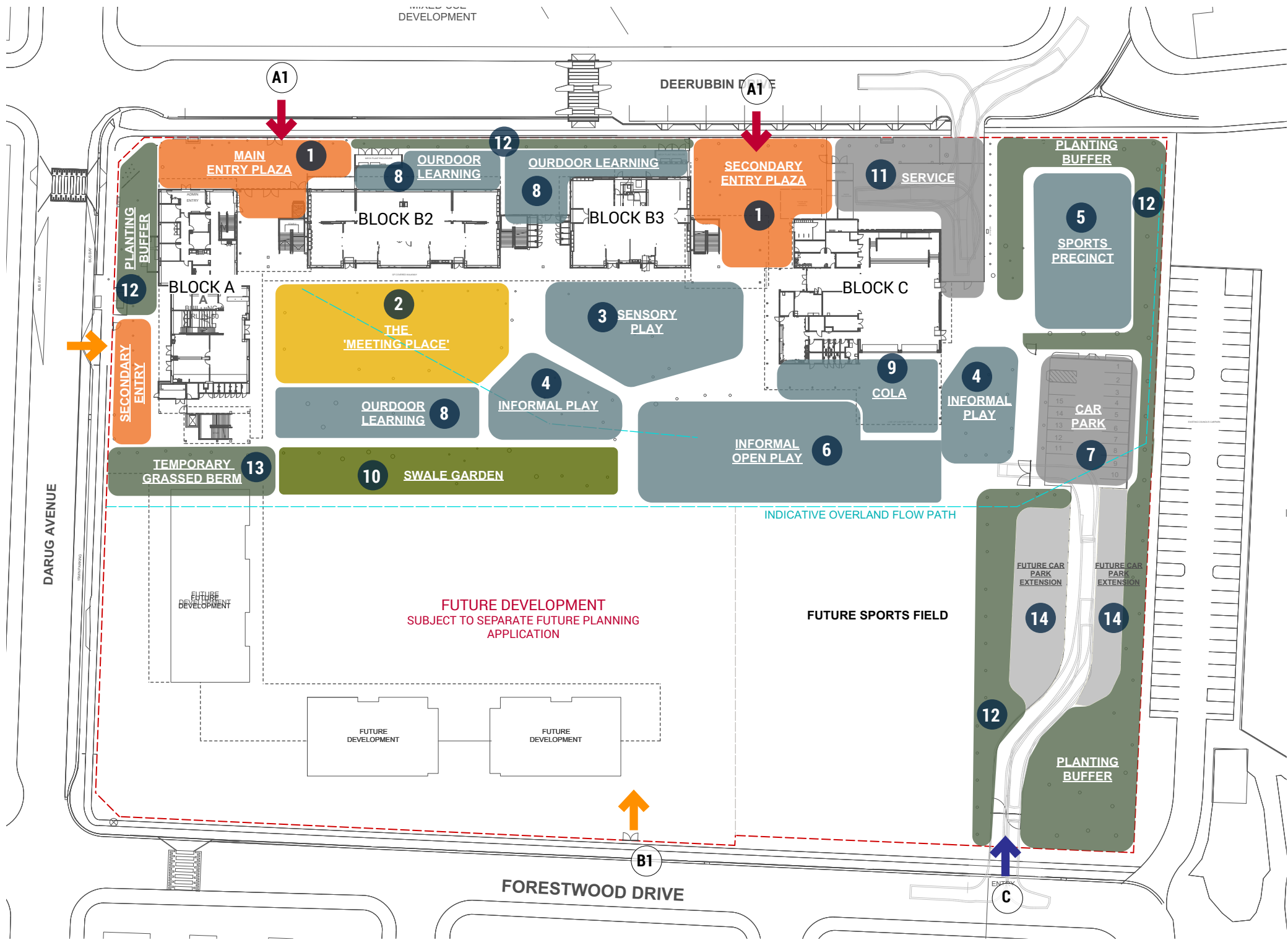
- Planting selections are responsive to local environment, with opportunities to provide shade and reinstate the local habitat.
- 1in100 year flood risk is considered to achieve a resilient landscape.
- Accommodate the varying climate conditions.



PROGRAMMABLE SPACE

- Provide flexible and engaging outdoor spaces.
- Encourage outdoor learning and activities in groups or individually and interactions.
- Active and passive play areas are provided to cater for different users.
- A variety of spaces that can accommodate flexible functions and programmes.

FRAMEWORK DIAGRAM



LEGEND

- 1. MAIN ENTRY PLAZA
 - 2. THE 'MEETING PLACE' ASSEMBLY
 - 3. SENSORY GARDEN
 - 4. * PLAYGROUND
 - 5. SPORTS PRECINCT
 - 6. INFORMAL OPEN PLAY
 - 7. CAR PARK
 - 8. OUTDOOR LEARNING/PLAY
 - 9. COLA
 - 10. SWALE GARDEN
 - 11. SERVICE AREA
 - 12. BUFFER PLANTING
 - 13. TEMPORARY GRASSED BERM
 - 14. FUTURE CAR PARK EXTENSION
 - A1: MAIN ENTRY & FORECOURT VIA DEERUBBIN DRIVE
 - B1: SECONDARY ENTRY VIA DARUG AVE. AND FORESTWOOD DRIVE
 - C: VEHICULAR ENTRY
- *NOTE: FUTURE EQUIPMENT TO BE PROVIDED BY SCHOOL

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Drawing Title
FRAMEWORK DIAGRAM
SCALE:NTS

Project
NEW PRIMARY SCHOOL IN MULGOA RISE

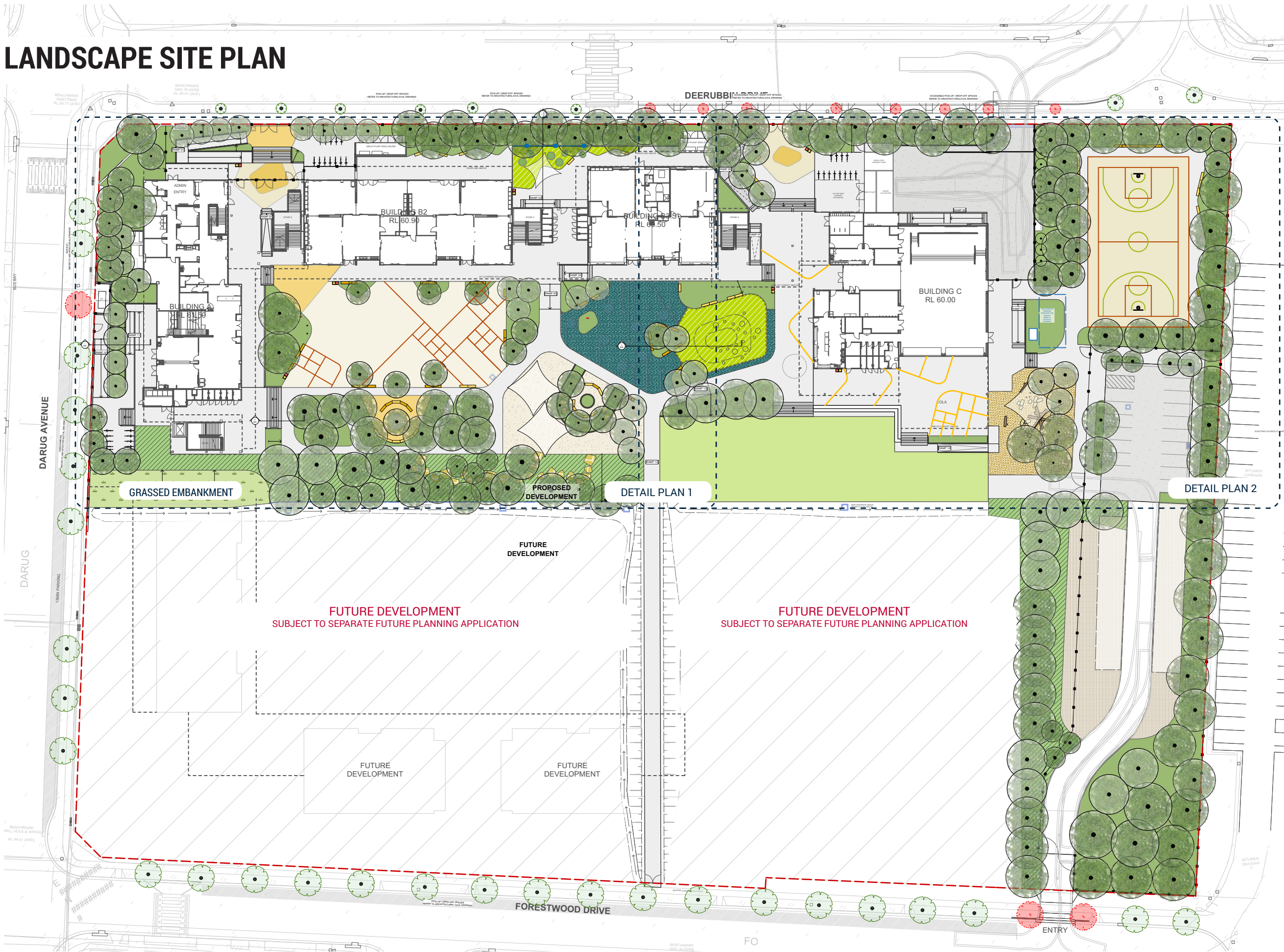


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Drawing Reference
L-SSDA- 004
Revision
06

LANDSCAPE SITE PLAN



- LEGEND**
- SITE BOUNDARY
 - RL 00.00 PROPOSED GROUND LEVEL
 - EX 00.00 EXISTING GROUND LEVEL
 - TW 00.00 TOP OF WALL HEIGHT
 - Trees to be removed
 - Existing trees to be retained
 - QTY-ID PROPOSED TREES
 - PAVING TYPE 1: STANDARD CONCRETE - BROOM FINISH
 - PAVING TYPE 2: COLOURED CONCRETE - ABRASIVE FINISH
 - PAVING TYPE 3: COLOURED CONCRETE - BROOM FINISH
 - PAVING TYPE 4: INTERPRETIVE LINE MARKING ON CONCRETE
 - PAVING TYPE 5: ASPHALT REFER TO ENGINEERS DETAILS
 - PAVING TYPE 6: SOFT FALL (2 COLOURS)
 - PAVING TYPE 7: PLAYGROUND MULCH
 - PAVING TYPE 8: 35MM SYNTHETIC TURF
 - PAVING TYPE 9: SANDSTONE STEPPING STONE
 - WALL TYPE 1: INSITU CONCRETE RETAINING WALL
 - WALL TYPE 2: INSITU CONCRETE HOB WALL
 - WALL TYPE 3: SANDSTONE BLOCK SEATING WALL
 - STAIR TYPE 1: INSITU CONCRETE STAIRS, HANDRAILS REFER TO ARCHITECTURAL DRAWING
 - STAIR TYPE 2 CONCRETE TIERED SEATING: INSITU CONCRETE SEATING, HANDRAILS REFER TO ARCHITECTURAL DRAWING
 - BIN
 - TACTILES
 - OFF-SHELF PLANTER
 - MASS PLANTING
 - TURF
 - TIMBER PLAY ELEMENTS: TO BE INSTALLED BY SCHOOL
 - SHADE STRUCTURE: TO BE INSTALLED BY SCHOOL

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LANDSCAPE SITE PLAN
SCALE: 1: 750 @ A3

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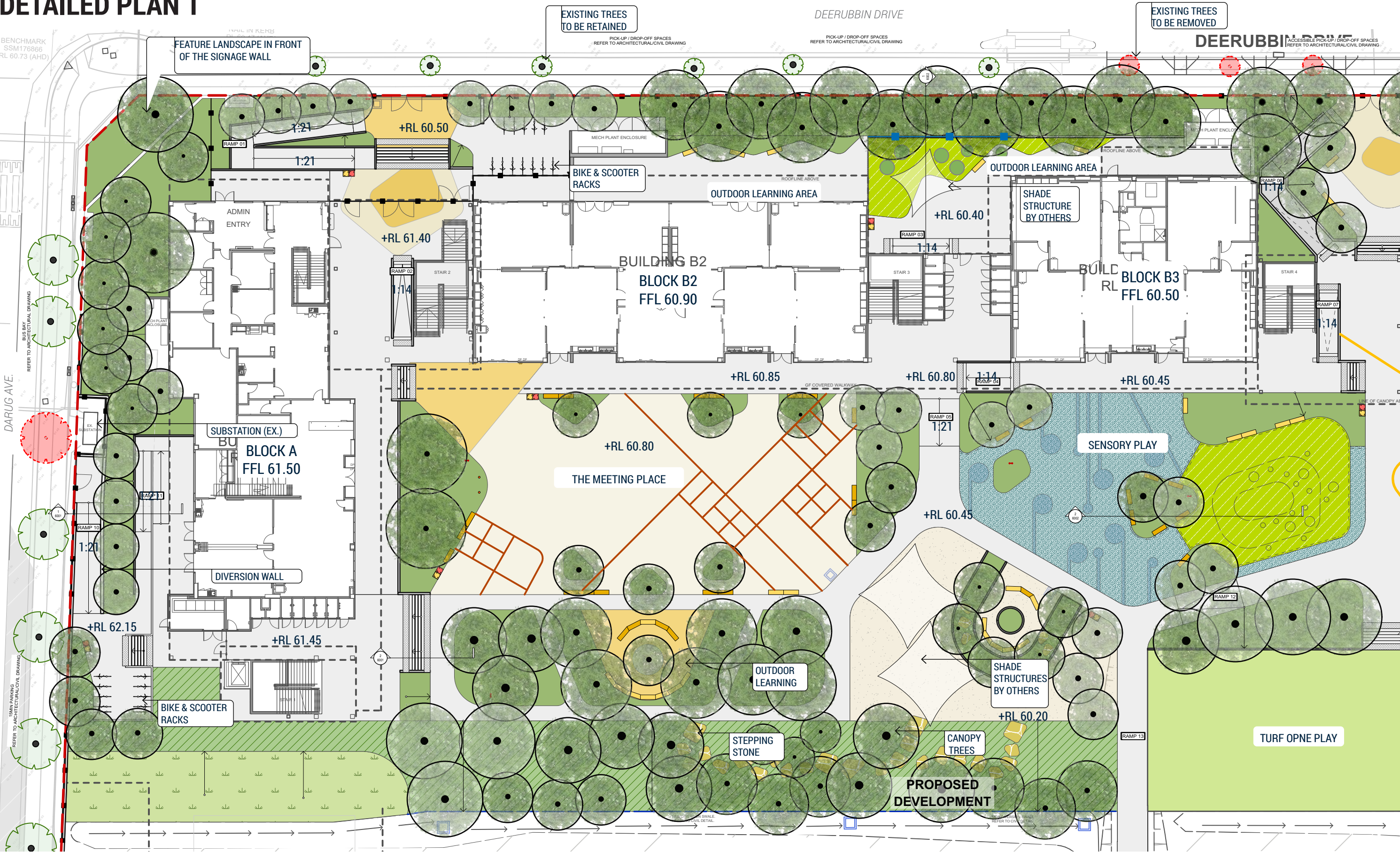
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L-SSDA- 005
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10 110 120 130 140 150 160 170 180 190 200

DETAILED PLAN 1



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Drawing Title
DETAILED PLAN 1
SCALE: 1: 300 @ A3

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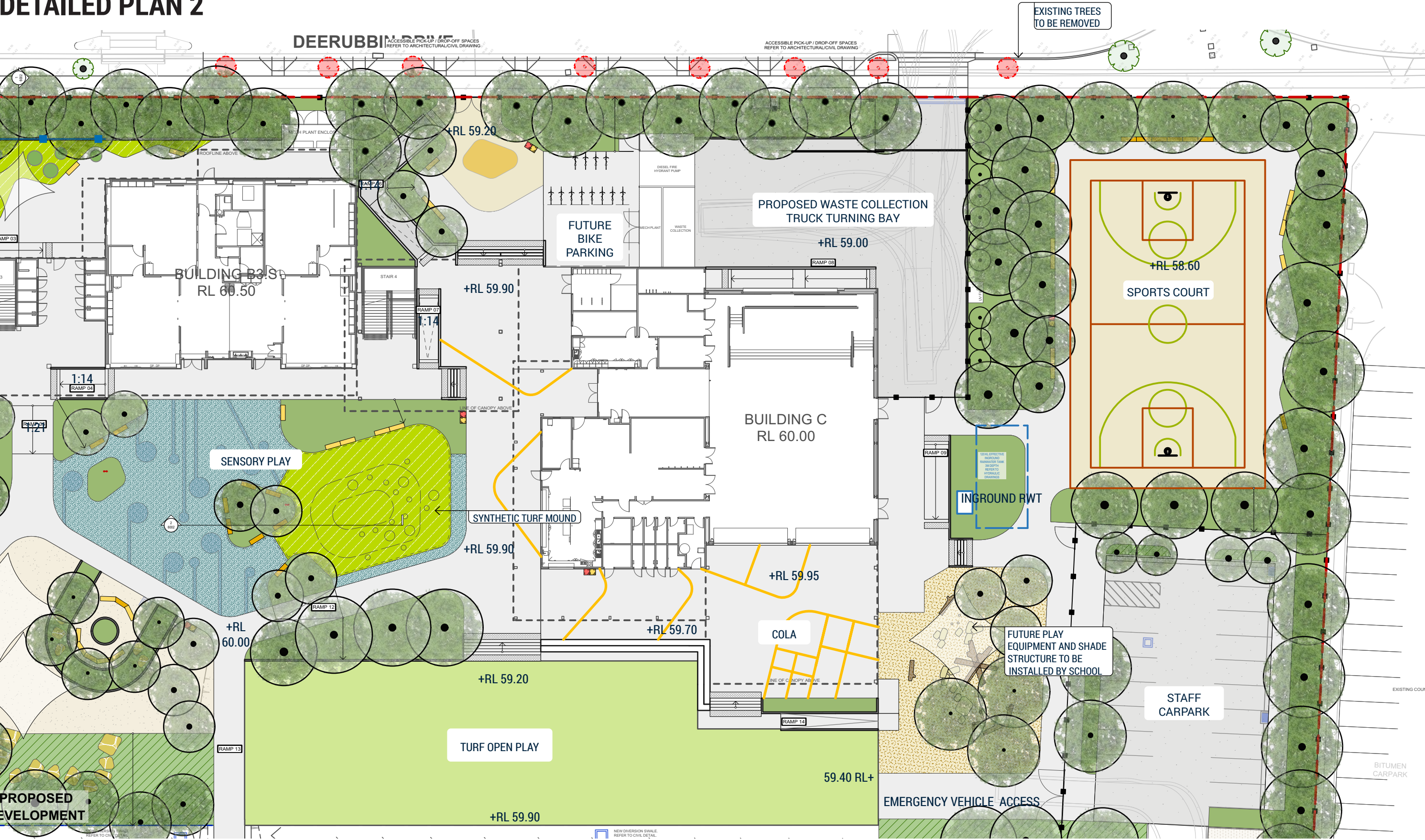


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DETAILED PLAN 2



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DETAILED PLAN 2
SCALE: 1: 300 @ A3

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MATERIALS PALETTE



CONCRETE PAVEMENT BROOMED



COLOURED CONCRETE PAVEMENT- SUNDANCE



COLOURED CONCRETE PAVEMENT- TERRACOTTA



INDICATIVE COLOURED CONCRETE GRAPHIC



SYNTHETIC TURF



TIMBER FENCE

LOCATION REFER TO ARCHITECTURAL DRAWINGS



SANDSTONE BLOCK SEATING



STEPPING STONE IN PLANTING

PLANTING PALETTE

TREES



Angophora floribunda



Eucalyptus punctata



Banksia integrifolia



Tristaniopsis laurina



Melaleuca decora



Callistemon viminalis



Eucalyptus tereticornis

SHRUBS



Xanthorrhoea australis



Breynia oblongifolia



Banksia spinulosa



Bursaria spinosa



Doryanthes excelsa



Indigofera australis



Rhagodia spinescens



Ozothamnus diosmifolius



Leptospermum trinervium

GRASSES AND GROUNDCOVERS



Lomandra longifolia



Lomandra 'Tankia'



Lomandra 'Lime Wave'



Themeda australis



Casuarina glauca 'Cousin It'



Scaevola aemula



Rubus parvifolius



Microlaena stipoides



Helichrysum petiolare

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Drawing Title
PLANTING PALETTE

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NEW PRIMARY SCHOOL IN MULGOA RISE

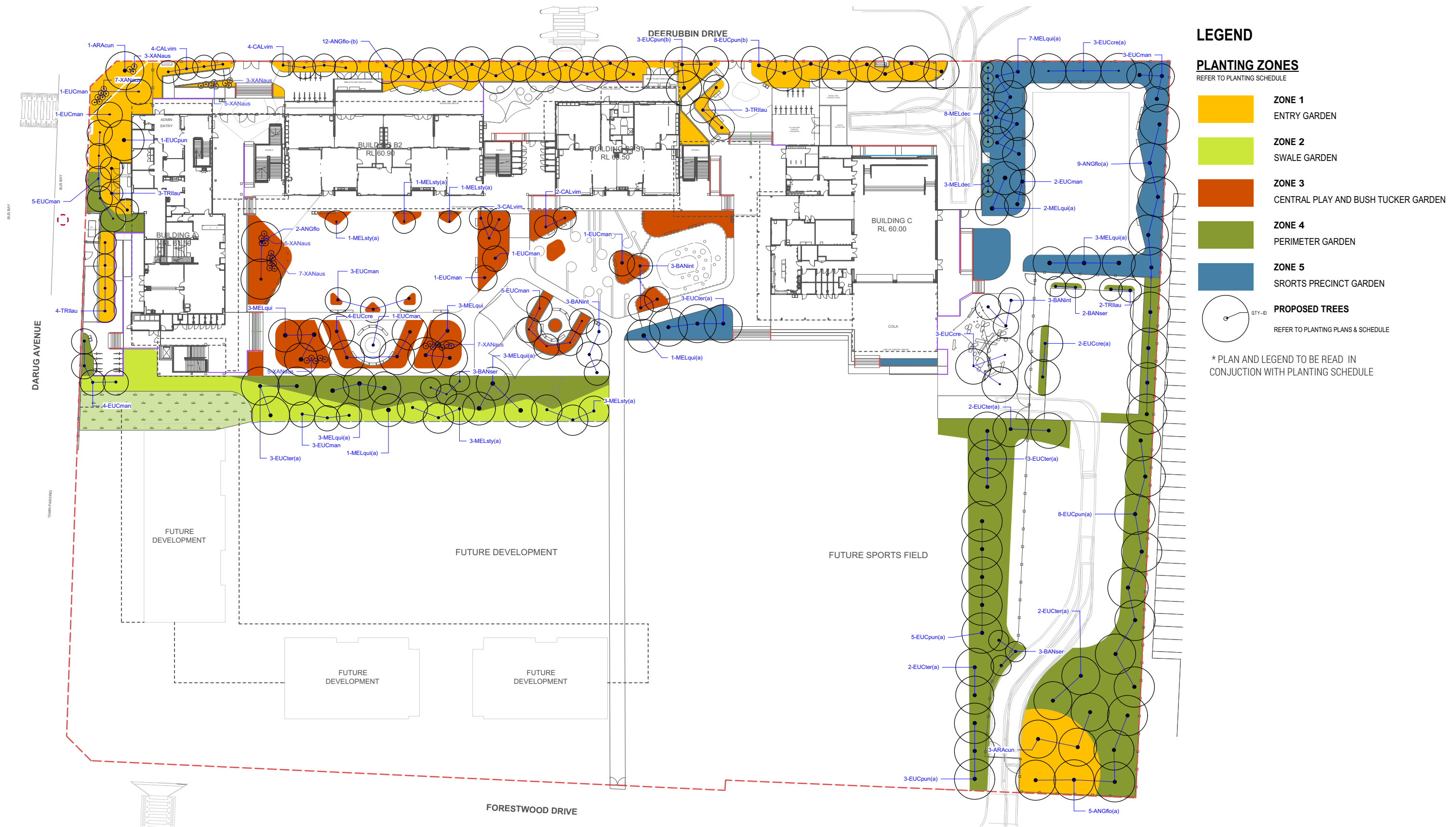
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0 10 20 30 40 50 60 70 80 90 100

PLANTING ZONE



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Drawing Title

PLANTING ZONE

SCALE:1: 1000 @ A3

Project

NEW PRIMARY SCHOOL IN MULGOA RISE



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Drawing Reference
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PLANTING SCHEDULE

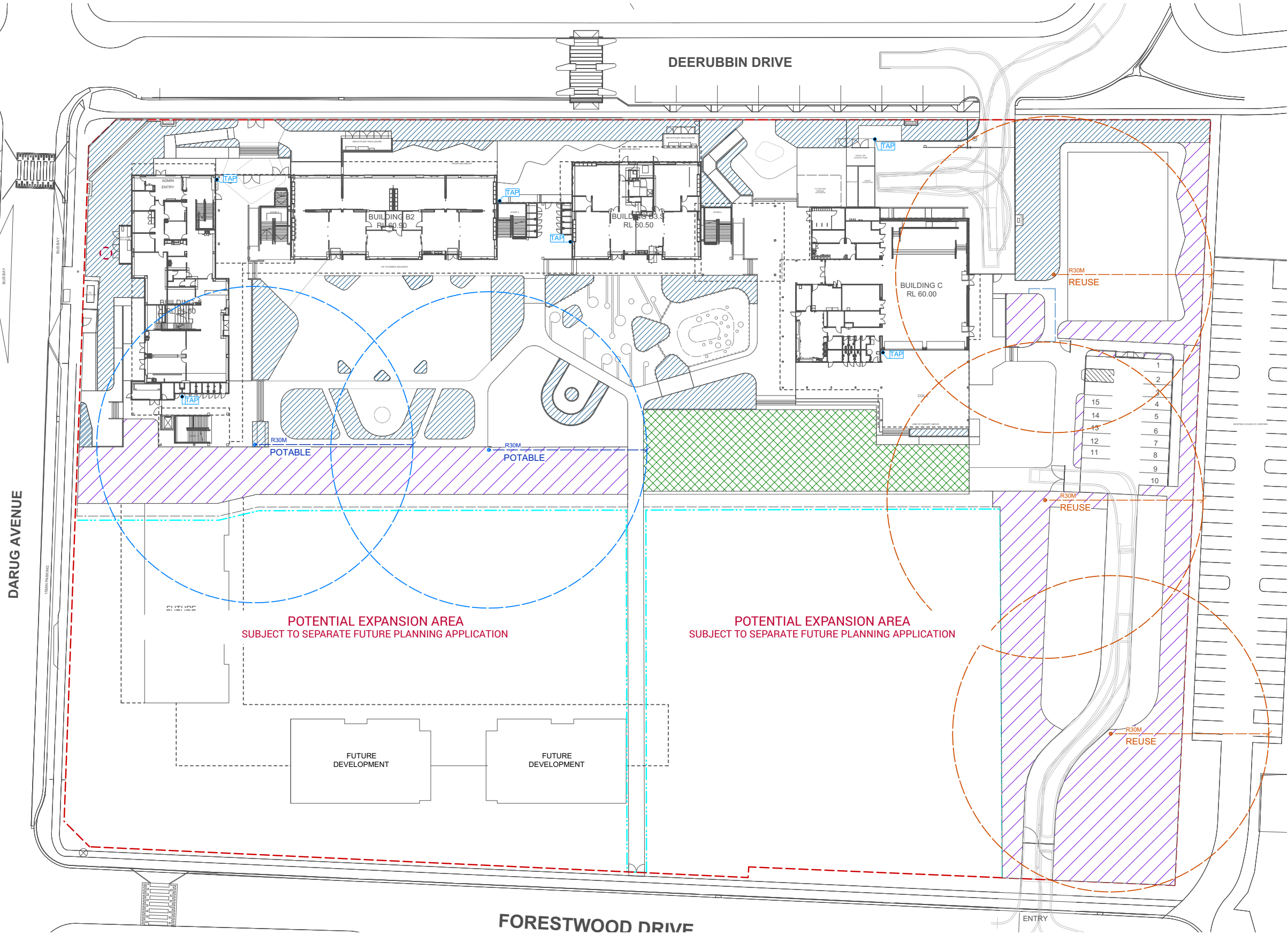
ID	Latin Name	Common Name	Mature Height	Mature Spread	Pot Size	Quantity
TREES (SITE WIDE)						
ANGflo	<i>Angophora floribunda</i> *	Rough-barked Apple	10 - 15m	6 - 10m	75L	2
ANGflo(b)	<i>Angophora floribunda</i> *	Rough-barked Apple	10 - 15m	6 - 10m	100L	12
ANGflo(a)	<i>Angophora floribunda</i> *	Rough-barked Apple	10 - 15m	6 - 10m	45L	14
ARAh	<i>Araucaria cunninghamii</i>	Star Pine, Norfolk Island Pine	20-35m	10 - 15m	100L	4
BANint	<i>Banksia integrifolia</i>	Coastal Banksia	5 - 10m	3.5 - 6m	45L	9
BANser	<i>Banksia serrata</i> *	Old Man Banksia	3-15m	2-4m	45L	8
CALvim	<i>Callistemon viminalis</i>	Callistemon	4-9m	4.5m	45L	13
EUCcre	<i>Eucalyptus crebra</i> *	Narrow leaved Ironbark	15-20m	6 - 10m	75L	7
EUCcre(a)	<i>Eucalyptus crebra</i> *	Narrow leaved Ironbark	15-20m	6 - 10m	45L	5
EUCman	<i>Eucalyptus mannifera</i> 'Little Spotty'	Brittle gum	5-7m	3-5m	100L	31
EUCpun	<i>Eucalyptus punctata</i> *	Grey Gum	12m	8m	75L	1
EUCpun(a)	<i>Eucalyptus punctata</i> *	Grey Gum	12m	8m	45L	16
EUCpun(b)	<i>Eucalyptus punctata</i> *	Grey Gum	12m	8m	100L	11
EUCter(a)	<i>Eucalyptus tereticornis</i> *	Forest Red Gum, Burringoa	15-20m	6 - 10m	45L	15
MELdec	<i>Melaleuca decora</i> *	White Feather Honeymyrtle	5-10m	4m	100L	11
MELsty(a)	<i>Melaleuca styphelioides</i> *	Prickly-leaved Tea Tree	5-9m	5-8m	45L	9
MELqui	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	8-15m	5-10m	75L	6
MELqui(a)	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	8-15m	5-10m	45L	20
TRIlau	<i>Tristaniopsis laurina</i> *	Kanooka, Water Gum	5 - 10m	3.5 - 6m	100L	12
TOTAL						206
Notes:						
*Endemic Plant species to Penrith City Council area						
Non local native planting to suppliment the local species.						
Plant species recorded in Mulgoa Nature Reserve (NPWS Conservation Reserve), planting communities including Shale Plains, Shale Hills, Moist Shale Woodlands, Western Sydney Dry Rainforest, Alluvial Woodland						
ID	Botanic Name	Common Name	Pot Size (mm)	Density	Ratio **	Quantity**
ZONE 1: ENTRY GARDEN PLANTING						
At	<i>Austromyrtus tenuifolia</i>	Midginberry	150	3	5%	166
Be	<i>Banksia ericifolia</i>	Heath Banksia	150	3	4%	133
Bao	<i>Banksia oblongifolia</i> *	Fern Leaf Banksia	150	4	2%	88
Hs	<i>Hakea sericea</i> *	Silky Hakea	150	3	2%	66
Bs	<i>Banksia spinulosa</i>	Hairpin Banksia	150	4	2%	88
Bo	<i>Breynia oblongifolia</i>	Coffee bush	150	4	3%	133
Bu	<i>Bursaria spinosa</i> *	Blackthorn	150	4	3%	111
Cca	<i>Callistemon citrinus</i> 'Anzac' *	Bottlebrush	150	4	4%	177
Cve	<i>Callistemon viminalis</i> 'Endeavour' *	Bottlebrush	150	4	4%	177
Cg	<i>Cyperus gracilis</i>	Slender sedge	tubestock	5	2%	111
Cyr	<i>Cymbopogon refractus</i>	Barbed wire grass	tubestock	6	4%	265
De	<i>Doryanthes excelsa</i>	Gymea Lilly	300	-	-	7
Dv	<i>Dodonaea viscosa</i> 'cuneata'	Wedge-leaf hop-bush	150	3	4%	133
Gh	<i>Goodenia hederacea</i>	Ivy goodenia	tubestock	4	3%	133
Gj	<i>Grevillea juniperina</i> *	Juniper-leaf grevillea	150	4	4%	177
Hv	<i>Hardenbergia violacea</i>	Flase Sarsparilla	75	4	4%	177
Ia	<i>Indigofera australis</i>	Native indigo	150	3	3%	99
Lt	<i>Leptospermum trinervium</i> *	Slender Tea Tree	150	4	4%	177
At	<i>Austroanthonia tenuior</i>	Wallaby Grass	tubestock	6	2%	133
Lc	<i>Lomandra cylindrica</i> 'Lime Wave'	Lomandra Lime Wave	tubestock	6	3%	199
Li	<i>Lomandra longifolia</i> *	Spiny Mat Rush	tubestock	6	3%	199
Lt	<i>Lomandra longifolia tanika</i>	Tanika Lomandra	tubestock	6	3%	199
Lf	<i>Lomandra filiformis</i>	Wattle mat-rush	tubestock	6	3%	199
Lm	<i>Lomandra multiflora</i>	Many-flowered mat-rush	tubestock	6	5%	332
Od	<i>Ozothamnus diosmifolius</i>	Rice flower	150	4	4%	177
En	<i>Einadia nutans</i>	Nodding Saltbush	tubestock	4	5%	221
Rs	<i>Rhagodia spinescens</i>	Creeping Saltbush	150	4	5%	221
Em	<i>Eriostemon myoporoides</i>	Longleaf Waxflower	150	3	5%	166
Bl	<i>Baeckea linifolia</i>	Flax-leaf Heath Myrtle	150	5	5%	276
XANaus	<i>Xanthorrhoea australis</i>	Grass Tree	1.0m Clear Trunk	As Indicate	-	18
Subtotal						4,754

ID	Botanic Name	Common Name	Pot Size (mm)	Density	Ratio **	Quantity**
ZONE 2: SWALE GARDEN PLANTING						
430						
Dic	<i>Dichelachne micrantha</i> *	Plume Grass	tubestock	6	5%	129
Gs	<i>Gahnia sieberiana</i>	Red-Fruit Saw Sedge	tubestock	6	10%	258
Ju	<i>Juncus usitatus</i> *	Common Rush	tubestock	6	15%	387
Lc	<i>Lomandra cylindrica</i> 'Lime Wave'	Lomandra Lime Wave	tubestock	6	15%	387
PA	<i>Phragmites australis</i>	Common reed	tubestock	6	5%	129
Li	<i>Lomandra longifolia</i> *	Spiny Mat Rush	tubestock	6	5%	129
Lt	<i>Lomandra longifolia tanika</i>	Tanika Lomandra	tubestock	6	5%	129
Lf	<i>Lomandra filiformis</i>	Wattle mat-rush	tubestock	6	5%	129
Lm	<i>Lomandra multiflora</i>	Many-flowered mat-rush	tubestock	6	5%	129
Ms	<i>Microlaena stipoides</i>	Weeping Grass	tubestock	6	10%	258
Ps	<i>Poa sieberiana</i>	Blue tussock grass	tubestock	6	5%	129
Ta	<i>Themeda australis</i> *	Kangaroo Grass	tubestock	6	10%	258
Tt	<i>Themeda triandra</i>	Kangaroo Grass	tubestock	6	5%	129
				Subtotal	100%	2,580
ZONE 3: CENTRAL PLAY & BUSH TUCKER PLANTING						
720						
BAo	<i>Banksia oblongifolia</i>	Fern Leaf Banksia	150	4	2%	58
Bo	<i>Breynia oblongifolia</i>	Coffee bush	150	4	2%	58
Bu	<i>Bursaria spinosa</i> *	Blackthorn	150	4	3%	72
Em	<i>Eriostemon myoporoides</i>	Longleaf Waxflower	150	4	4%	115
Cas	<i>Casuarina glauca</i> 'Cousin It'	Dwarf Casuarina	150	4	3%	86
Cg	<i>Cyperus gracilis</i>	Slender sedge	tubestock	6	3%	130
Cyr	<i>Cymbopogon refractus</i>	Barbed wire grass	tubestock	6	4%	173
Cve	<i>Callistemon viminalis</i> 'Endeavour'	Bottlebrush	150	4	3%	86
En	<i>Einadia nutans</i>	Nodding Saltbush	150	4	5%	144
Dv	<i>Dodonaea viscosa</i> 'cuneata'	Wedge-leaf hop-bush	150	3	5%	108
Gh	<i>Goodenia hederacea</i>	Ivy goodenia	tubestock	4	3%	86
Od	<i>Ozothamnus diosmifolius</i>	Rice flower	150	4	3%	86
Gj	<i>Grevillea juniperina</i> *	Juniper-leaf grevillea	150	4	3%	86
Hv	<i>Hardenbergia violacea</i>	Flase Sarsparilla	tubestock	4	5%	144
Ia	<i>Indigofera australis</i>	Native indigo	150	3	3%	65
Hp	<i>Helichrysum petiolare</i>	Licorice Plant	150	4	5%	144
Lc	<i>Leptospermum polygalifolium</i> *	Tea Tree	150	4	2%	58
Lc	<i>Lomandra cylindrica</i> 'Lime Wave'	Lomandra Lime Wave	tubestock	6	5%	216
Li	<i>Lomandra longifolia</i> *	Spiny Mat Rush	tubestock	6	5%	216
Lt	<i>Lomandra longifolia tanika</i>	Tanika Lomandra	tubestock	6	5%	216
Tt	<i>Themeda triandra</i>	Kangaroo Grass	tubestock	6	3%	130
Lf	<i>Lomandra filiformis</i>	Wattle mat-rush	tubestock	6	5%	216
Lm	<i>Lomandra multiflora</i>	Many-flowered mat-rush	tubestock	6	5%	216
Bl	<i>Baeckea linifolia</i>	Flax-leaf Heath Myrtle	150	4	2%	58
SA	<i>Scaevola aemula</i>	Fairy Fan Flower	150	4	3%	86
At	<i>Austroanthonia tenuior</i>	Wallaby Grass	tubestock	6	2%	86
Rp	<i>Rubus parvifolius</i>	Native raspberr	150	6	2%	86
Ta	<i>Themeda australis</i> *	Kangaroo Grass	tubestock	6	5%	216
XANaus	<i>Xanthorrhoea australis</i>	Grass Tree	Trunk Height	Indicate d	-	24
				Subtotal	100%	3,466

ID	Botanic Name	Common Name	Pot Size (mm)	Density	Ratio **	Quantity**
ZONE 4: PERIMETER PLANTING						
1780						
Bu	<i>Bursaria spinosa</i> *	Blackthorn	150	4	3%	178
En	<i>Einadia nutans</i>	Nodding Saltbush	150	4	5%	356
Dv	<i>Dodonaea viscosa</i> 'cuneata'	Wedge-leaf hop-bush	150	3	5%	267
Gh	<i>Goodenia hederacea</i>	Ivy goodenia	tubestock	4	3%	214
Hv	<i>Hardenbergia violacea</i>	Flase Sarsparilla	150	4	3%	178
			tubestock	4	2%	142
At	<i>Austroanthonia tenuior</i>	Wallaby Grass	tubestock	6	5%	534
Lc	<i>Lomandra cylindrica</i> 'Lime Wave'	Lomandra Lime Wave	tubestock	6	10%	1,068
Li	<i>Lomandra longifolia</i> *	Spiny Mat Rush	tubestock	6	5%	534
Lt	<i>Lomandra longifolia tanika</i>	Tanika Lomandra	tubestock	5	5%	445
Lf	<i>Lomandra filiformis</i>	Wattle mat-rush	tubestock	6	5%	534
Lm	<i>Lomandra multiflora</i>	Many-flowered mat-rush	tubestock	6	5%	534
Ms	<i>Microlaena stipoides</i>	Weeping Grass	tubestock	5	5%	445
Ps	<i>Poa sieberiana</i>	Blue tussock grass	tubestock	5	5%	445
Hv	<i>Hardenbergia violacea</i>	Flase Sarsparilla	tubestock	4	5%	356
Ta	<i>Themeda australis</i> *	Kangaroo Grass	tubestock	5	5%	445
Od	<i>Ozothamnus diosmifolius</i>	Rice flower	150	4	5%	356
SA	<i>Scaevola aemula</i>	Fairy Fan Flower	150	3	5%	267
Wg	<i>Wahlenbergia gracilis</i>	Australian bluebell	150	3	5%	267
GL	<i>Grevillea longifolia</i>	Grevillea	150	4	5%	356
Bl	<i>Baeckea linifolia</i>	Flax-leaf Heath Myrtle	150	3	5%	267
				Subtotal	100%	8,188
ZONE 5: SPORTS ZONE PLANTING						
820						
Cag	<i>Carpobrotus glaucescens</i>	Pig Face	150	4	5%	164
Cg	<i>Cyperus gracilis</i>	Slender sedge	tubestock	6	5%	246
Cyr	<i>Cymbopogon refractus</i>	Barbed wire grass	tubestock	6	5%	246
Hp	<i>Helichrysum petiolare</i>	Licorice Plant	150	4	5%	164
Hv	<i>Hardenbergia violacea</i>	Flase Sarsparilla	150	4	7%	230
Lf	<i>Leptospermum flavescens</i> Cardwell	Tea Tree	150	4	5%	164
Lc	<i>Leptospermum polygalifolium</i> *	Tea Tree	150	4	5%	164
Lc	<i>Lomandra cylindrica</i> 'Lime Wave'	Lomandra Lime Wave	tubestock	6	5%	246
Lf	<i>Lomandra filiformis</i>	Wattle mat-rush	tubestock	6	5%	246
Lm	<i>Lomandra multiflora</i>	Many-flowered mat-rush	tubestock	6	5%	246
Li	<i>Lomandra longifolia</i> *	Spiny Mat Rush	tubestock	6	5%	246
Lt	<i>Lomandra longifolia tanika</i>	Tanika Lomandra	tubestock	6	10%	492
Ta	<i>Themeda australis</i> *	Kangaroo Grass	tubestock	6	10%	492
Wg	<i>Wahlenbergia gracilis</i>	Australian bluebell	150	4	5%	164
Od	<i>Ozothamnus diosmifolius</i>	Rice flower	150	4	3%	98
Ps	<i>Poa sieberiana</i>	Blue tussock grass	tubestock	6	10%	492
PA	<i>Phragmites australis</i>	Common reed	150	6	5%	246
				Subtotal	100%	4,346
MASSPLANTING TOTAL						23,334

NOTE:						
*Endemic Plant species to Penrith City Council area						
**Plant quantities are subject to detail design and might change						
Non local native planting to suppliment the local species for school setting.						
Key to Planting Communities Identified in the locality:						
Plant species recorded in Mulgoa Nature Reserve (NPWS Conservation Reserve), planting communities including Shale Plains, Shale Hills, Moist Shale Woodlands, Western Sydney Dry Rainforest, Alluvial Woodland						
Plant species recorded from Cumberland Plain Shale Woodlands, Shale-Gravel Transition Forest, Cumberland Riverflat Forest						

PRELIMINARY IRRIGATION PLAN



LEGEND

THE IRRIGATION SYSTEM SHOULD BE DESIGNED, SUPPLIED AND INSTALLED BY AN EXPERIENCED SPECIALIST IRRIGATION SUB-LANDSCAPE CONTRACTOR

- MASS PLANTING - PRIORITY AREA
AUTOMATIC DRIP IRRIGATION
- MASS PLANTING
HOSE TAP - HAND WATERING DURING
ESTABLISHMENT PERIOD
- LAWN
IRRIGATED INCLUDING POP UP SPRINKLER
- TAP LOCATION - GENERAL MAINTENANCE
PURPOSE
- POTABLE TAP POINTS
NOMINAL LOCATION
- REUSE TAP POINTS
NOMINAL LOCATION

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SCALE: 1: NTS

Project
NEW PRIMARY SCHOOL IN MULGOA RISE



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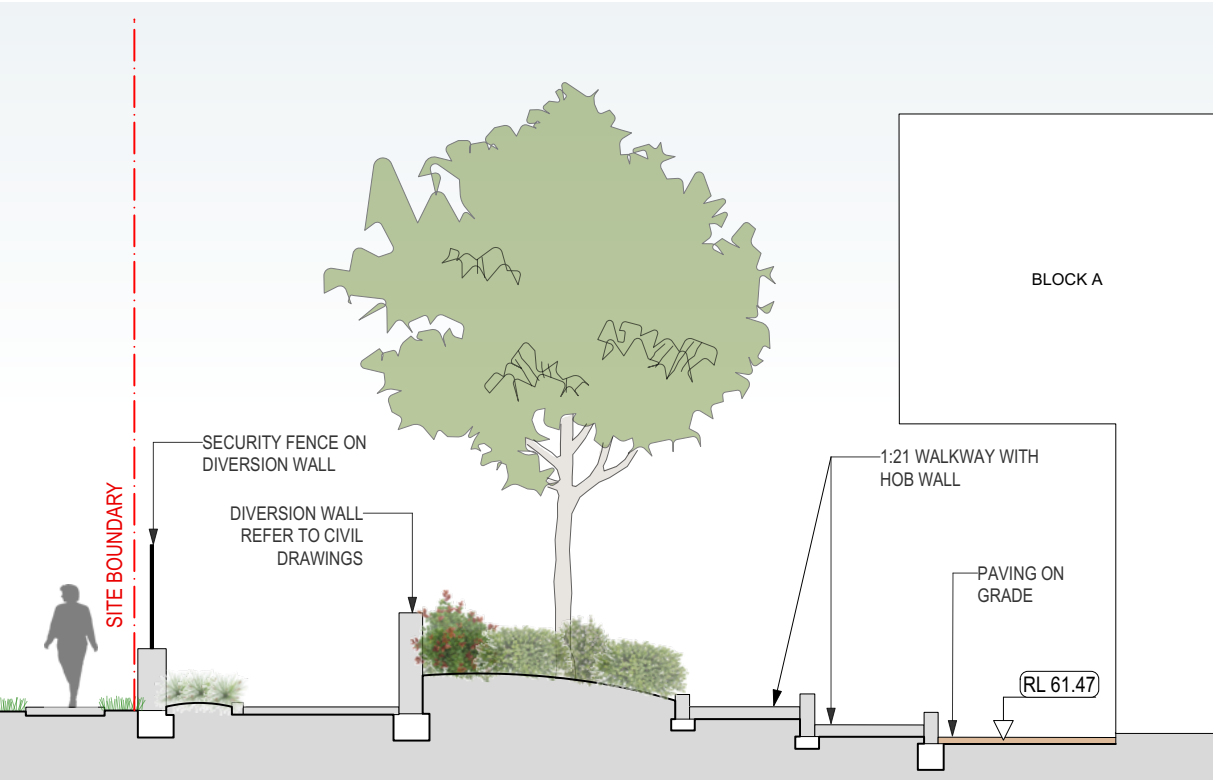
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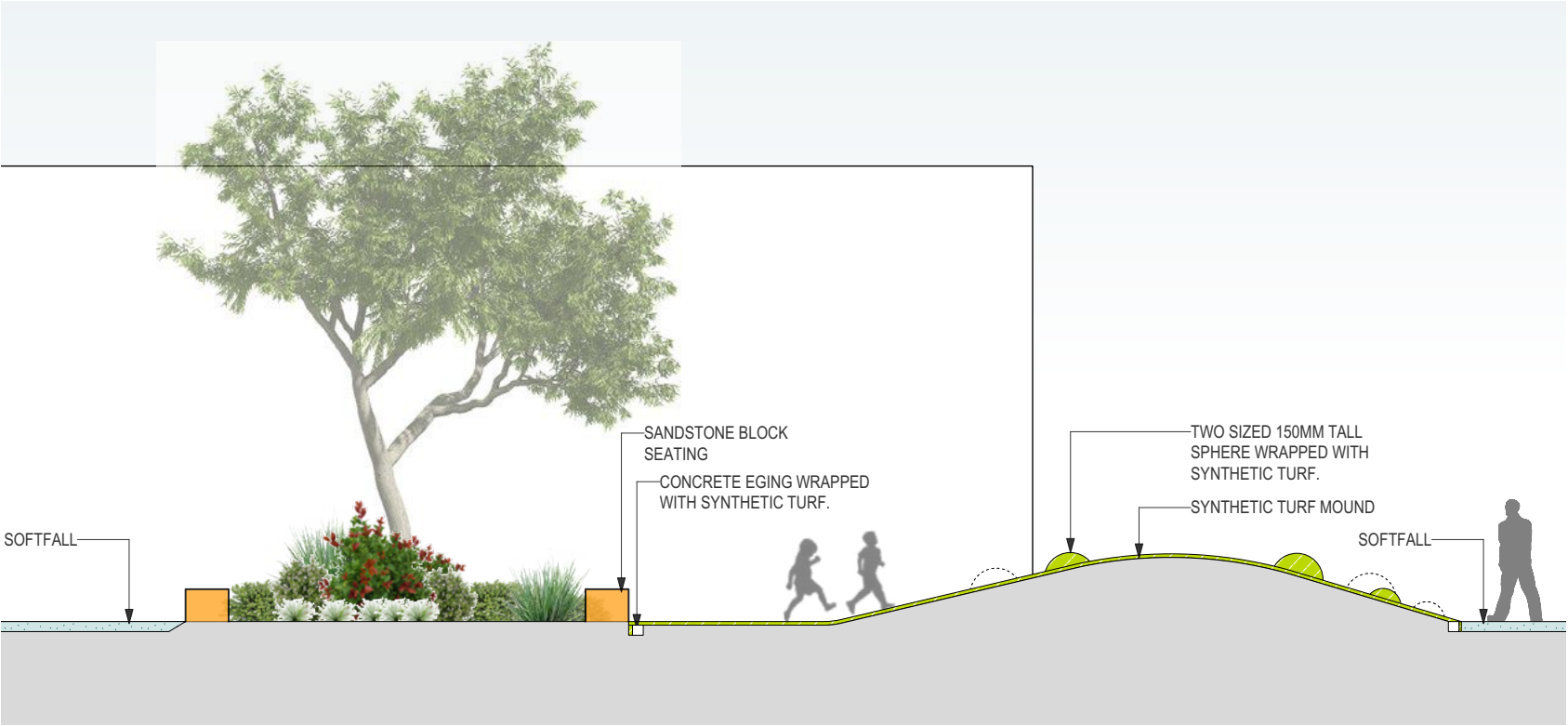
Revision
06

10 110 120 130 140 150 160 170 180 190 200

LANDSCAPE SECTIONS



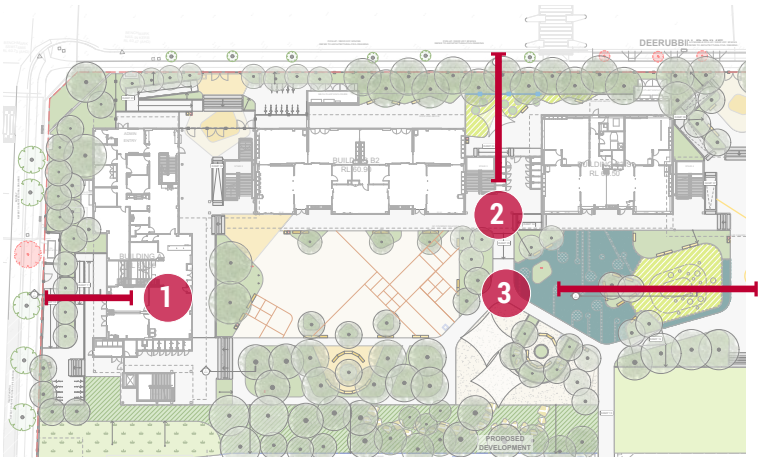
SECTION 1: DARUG AVENUE ENTRY / BUILDING A
SCALE: 1:50 @A1



SECTION 3: SENSORY PLAY
SCALE: 1:50 @A1



SECTION 2: DEERUBBIN DRIVE / BUILDING B3.S
SCALE: 1:50 @A1



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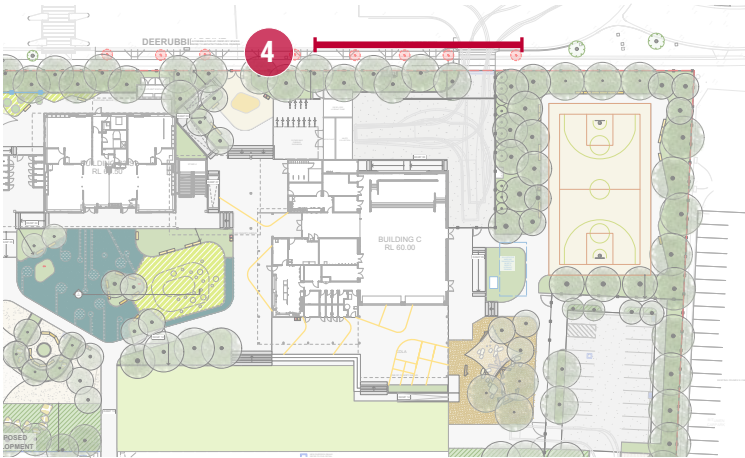
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Revision
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LANDSCAPE SECTIONS



SECTION/ELEVATION 4: SERVICES ENTRY
SCALE: 1:50 @A1



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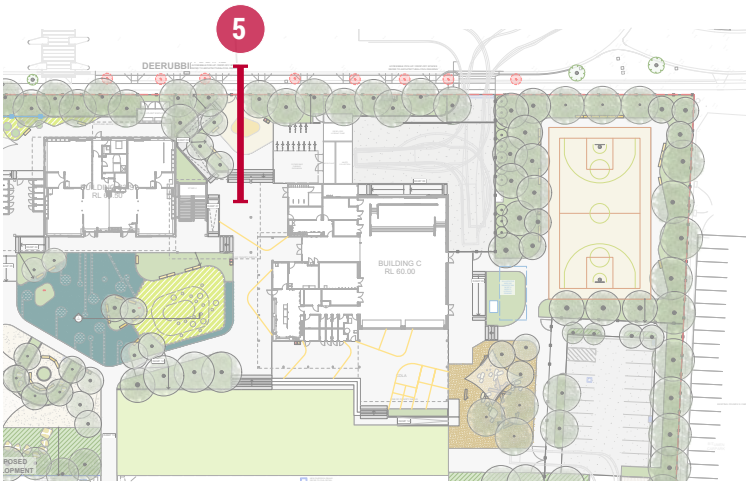
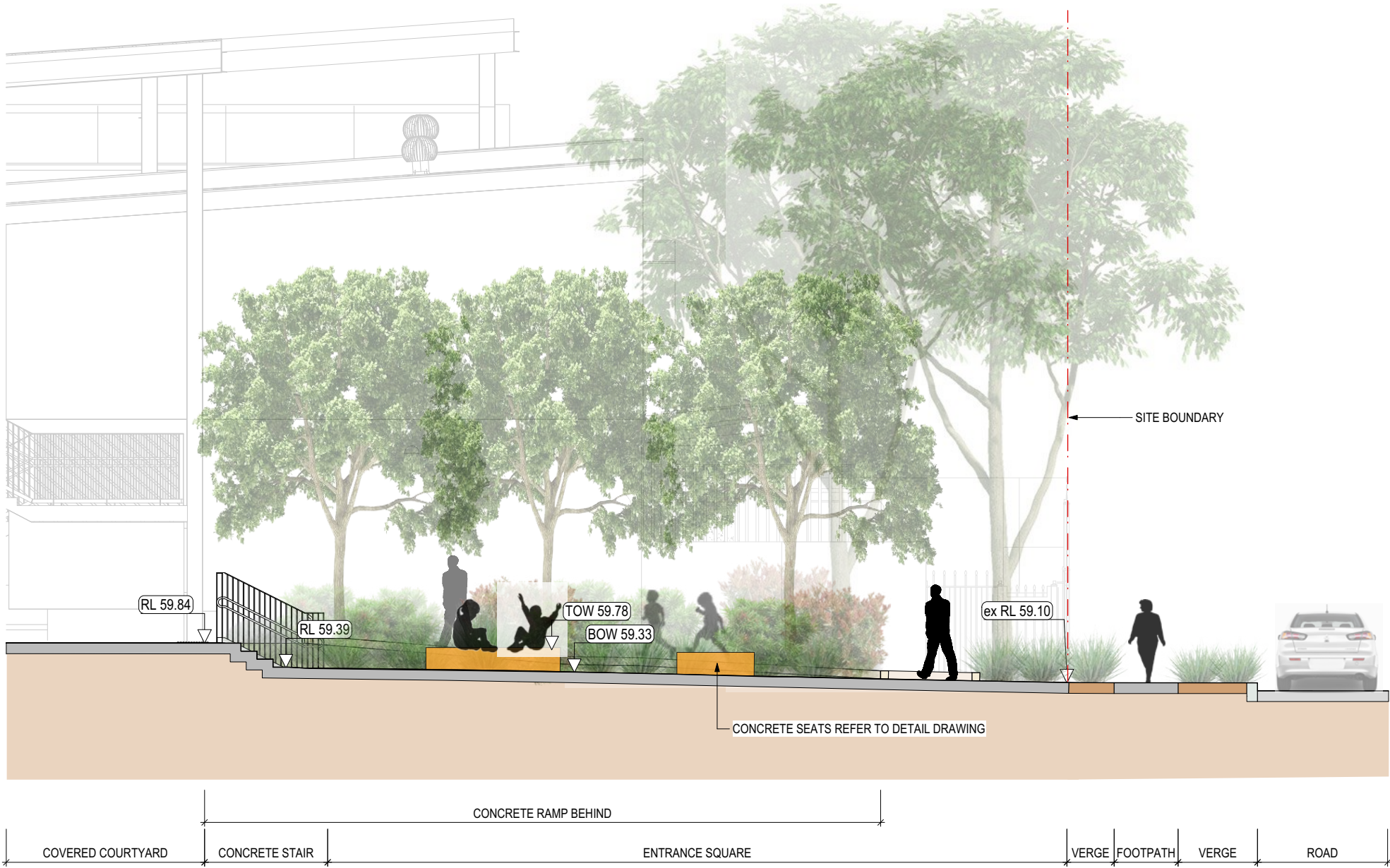
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0 10 20 30 40 50 60 70 80 90 100

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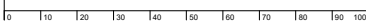


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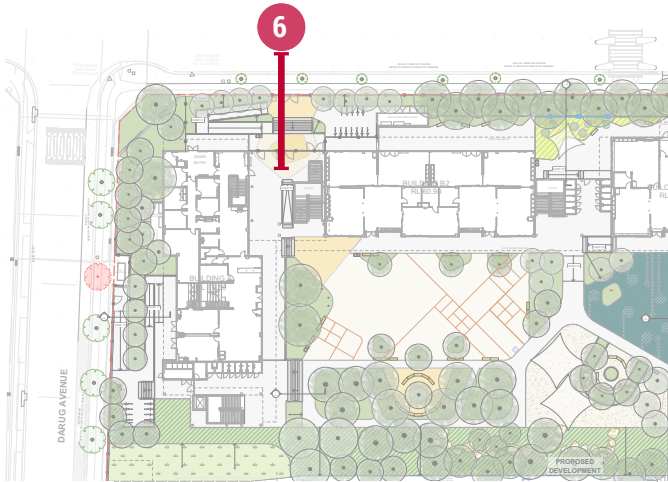
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LANDSCAPE SECTIONS



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