### **North Sydney Public School**

### **Landscape Architecture**

### **SSDA DESIGN REPORT**

16.11.2021

### TaylorBrammer









## **SITE CONTEXT**

#### Locality

North Sydney Public School is a NSW Government Primary School located in the suburb of Waverton. It is one of three demonstration schools in NSW.

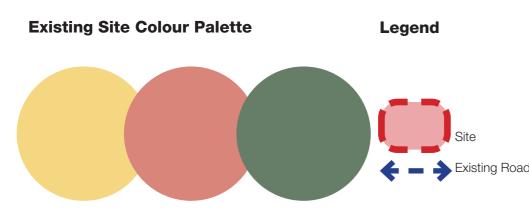
The site is bounded by McHatton Street to the north, Bay Road to the South and The Pacific Highway to the east.

The School is positioned in a high density residential community and is located approximately 650m from Waverton Station. Student drop off areas are allocated along McHatton Street and Bay Road frontages. A bus stop is also located on the Bay Road frontage.

The site reflects the established vegetation consistent with the local area boasting large specimen trees which create valued shade an amenity across the site.

A number of significant elements are found onsite including the existing fencing to Bay Road and the Pacific Highway frontages which is heritage listed, whilst a number of trees have also been identified as significant.





Local Context Map, Sourced Nearmap 2019

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### **EXISTING SITE**



### **EXISTING CHARACTER**



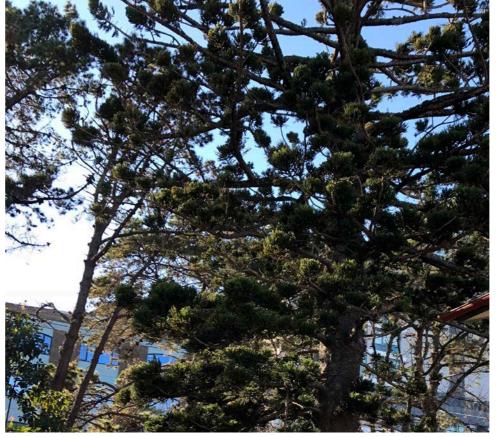


Administration entry; Image by TBLA 2019

Demountable building; Image by TBLA 2019



Cultural landscape character of mixed health and maturity; Image by TBLA 2019



Marker tree planting; Image by TBLA July 2019



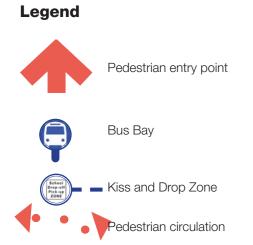
Significant level changes across the site; Image by TBLA 2019



Heritage entry gates; Image by TBLA 2019

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### **ACCESS AND MOVEMENT**





### TOPOGRAPHY





High Point from McHatton Street

Mid Level Central Courtyard

Low Point - buffer zone sloping down to Bay Road



### **EXISTING VEGETATION**



#### Legend



Cluster of significant Angophora Costata trees

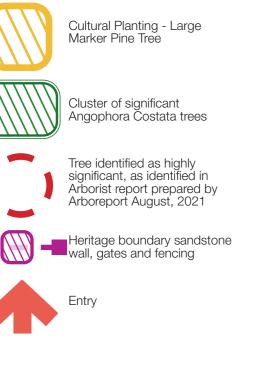
Cultural Planting - Large Marker Pine Tree

Tree identified as highly significant, as identified in Arborist report prepared by Arboreport August, 2021

North Sydney Public School

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## **SIGNIFICANT LANDSCAPE ELEMENTS**

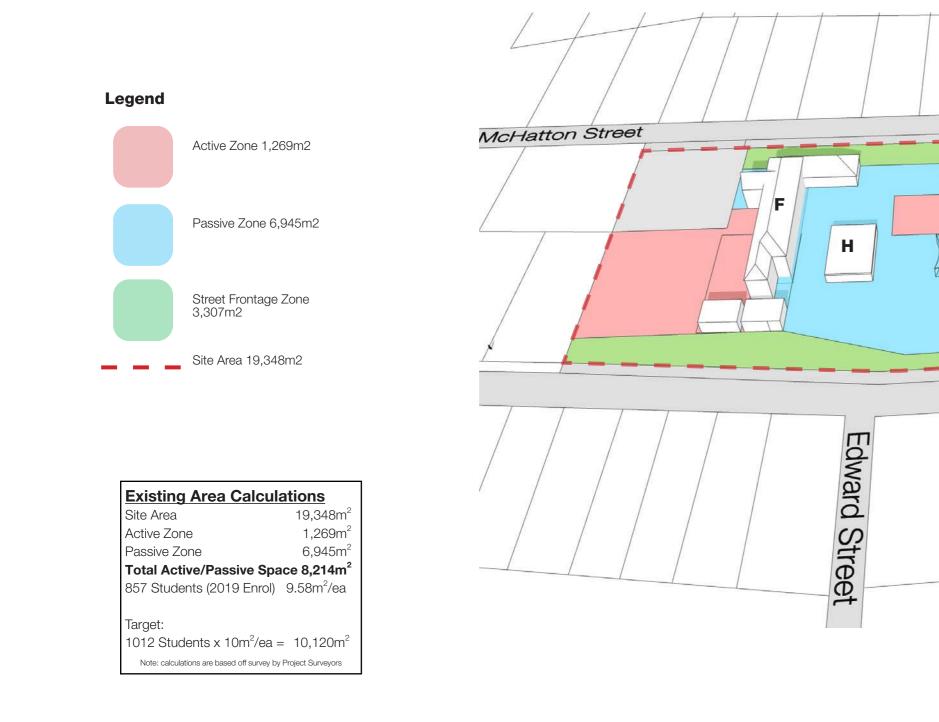




Legend

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## **EXTERNAL USES**



D

Bay Road



## **EXISTING CANOPY COVER**

#### Legend



Existing Canopy Tree

Site Area 19,348m2



Existing Canopy Calculations						
Site Area Existing Tree canopy	19,348m <sup>2</sup> 6,251m <sup>2</sup>					
Total Canopy Cover	32%					



### LANDSCAPE DESIGN STRATEGY

The landscape design intends to build on the existing landscape character of the site and create a combination of active and passive outdoor spaces which offer not only a place of recreation but also a layering of education values and function space building on the preexisting learning spaces. The design aims to build upon the strong sense of place which the site currently holds through its connection to Country, heritage buildings, fences and walls, culturally significant plantings and a range of significant endemic species.

The landscape strategy has been developed by expanding on the following design principles which underpin the overall design approach:

- 1. Develop existing outdoor learning
- 2. Interact with nature
- 3. Culture
- 4. Foster a sense of Community
- 5. A Site specific expression
- 6. Respect the heritage of the place

From Bay Road, a new accessible entry is proposed which aligns with the heritage listed McHatton Building. Formal paving with delicate inlays present an opportunity for storytelling and discovery. Leading through to the new entry plaza, connection to County is strengthened through a prominent artefacts display. Secure lines have been carefully considered and are intended to tie into proposed building lines.

The landscape frontage to Bay Road offers an opportunity for replenishment tree and understory planting to promote and enhance the already evident native landscape character and strengthen the site's canopy cover in accordance with SINSW targets. This is also an opportunity to provide a further connection to Country through significant plant selections.

Currently, the existing topography of the site creates a sense of disconnect from the main active courtyard to the Bay Road interface. The design aims to ameliorate this by incorporating a terraced seating space with integrated planting which connects the ground floor entry through to the upper main courtyard.

The main courtyard is being improved through new fixed playground equipment and 2 large synthetic turf areas providing additional active play areas for both primary and infant students. Further to this, it is proposed that acrylic line-markings and colour is added to the existing asphalt for play activities.

Several significant trees have been identified on site. Specimens found in the main courtyard currently present issues with exposed roots. To ensure the protection of these trees and remove hazards, the design suggests elevated decking surrounding significant existing trees providing students with passive outdoor spaces benefiting from the canopy cover above.

A designated Yarning Circle has been proposed further building on the site's connection to Country. There is an opportunity for native replenishment planting surrounding this area with species selected for their cultural significance.

Texturally the landscape is sympathetic to the site and inspired by the indigenous recognition of sandstone meeting the sea. Sandstone seating walls and terracing will be used in the new landscape with reclaimed timber from fallen trees to be incorporated throughout the design. A harmonious combination of existing surfaces, gravel, synthetic turf timber and sandstone will be highlighted throughout the school creating a material palette that is conscious of heat island mitigation. The planting character suggests a mix of flowering native plant species Inspired by cultural values of the site contributing to canopy cover and further reduction of urban heat island mitigation.

The overall design aims to create a layered landscape that connects the students to the cultural and environmental values of the site. Provides adequate shade and amenity, whilst proving a series of outdoor learning spaces which provide passive and active amenity.



# **DESIGN THEMES**

### 1. Develop existing outdoor learning

Create new learning environments associated with the new building

#### 2. Interact with nature

Create design outcomes which connect people with nature

**3. Culture** Curate site specific art to stimulate the mind and spirit

#### 4. Foster a sense of Community

Consult with all community to develop human scaled spaces for rest and to encourage learning

#### 5. A Site specific expression

Create a respectful and meaningful landscape in response to the Country of the place

### 6. Respect the heritage of the place

Respect and restore existing heritage and environmental values of the place













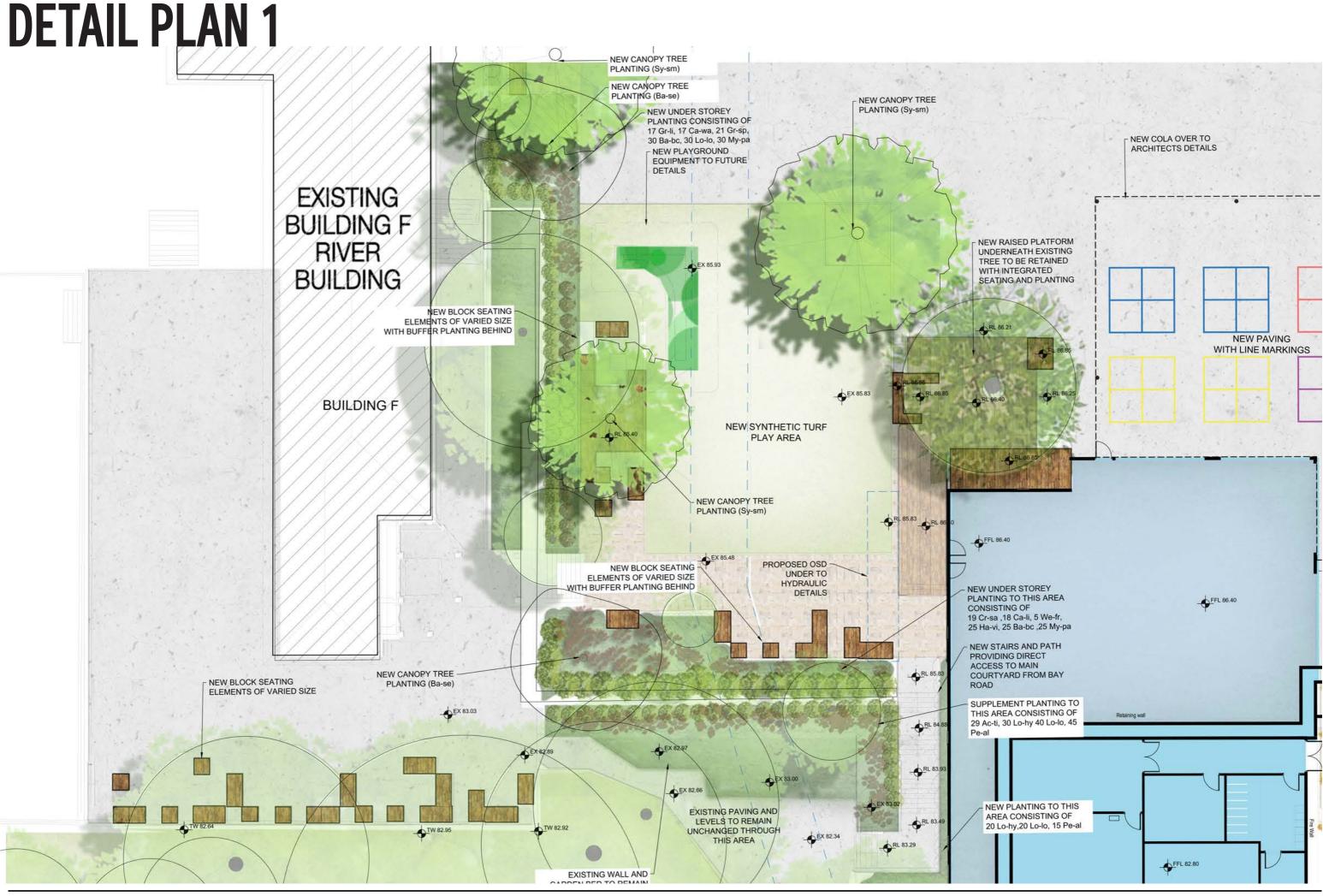
# **DESIGN PRECEDENCES**



03 | Landscape Plans

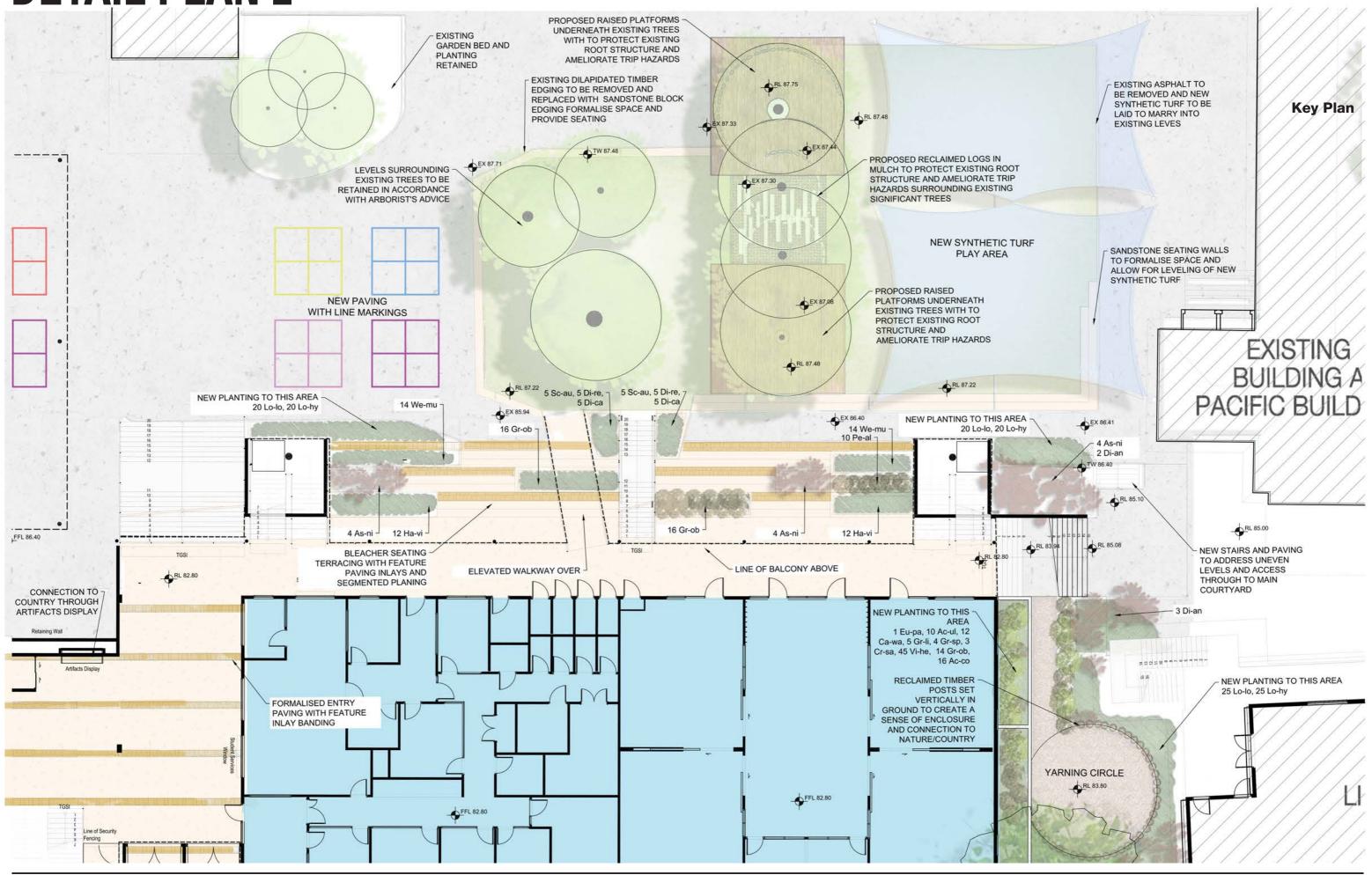
### LANDSCAPE MASTERPLAN



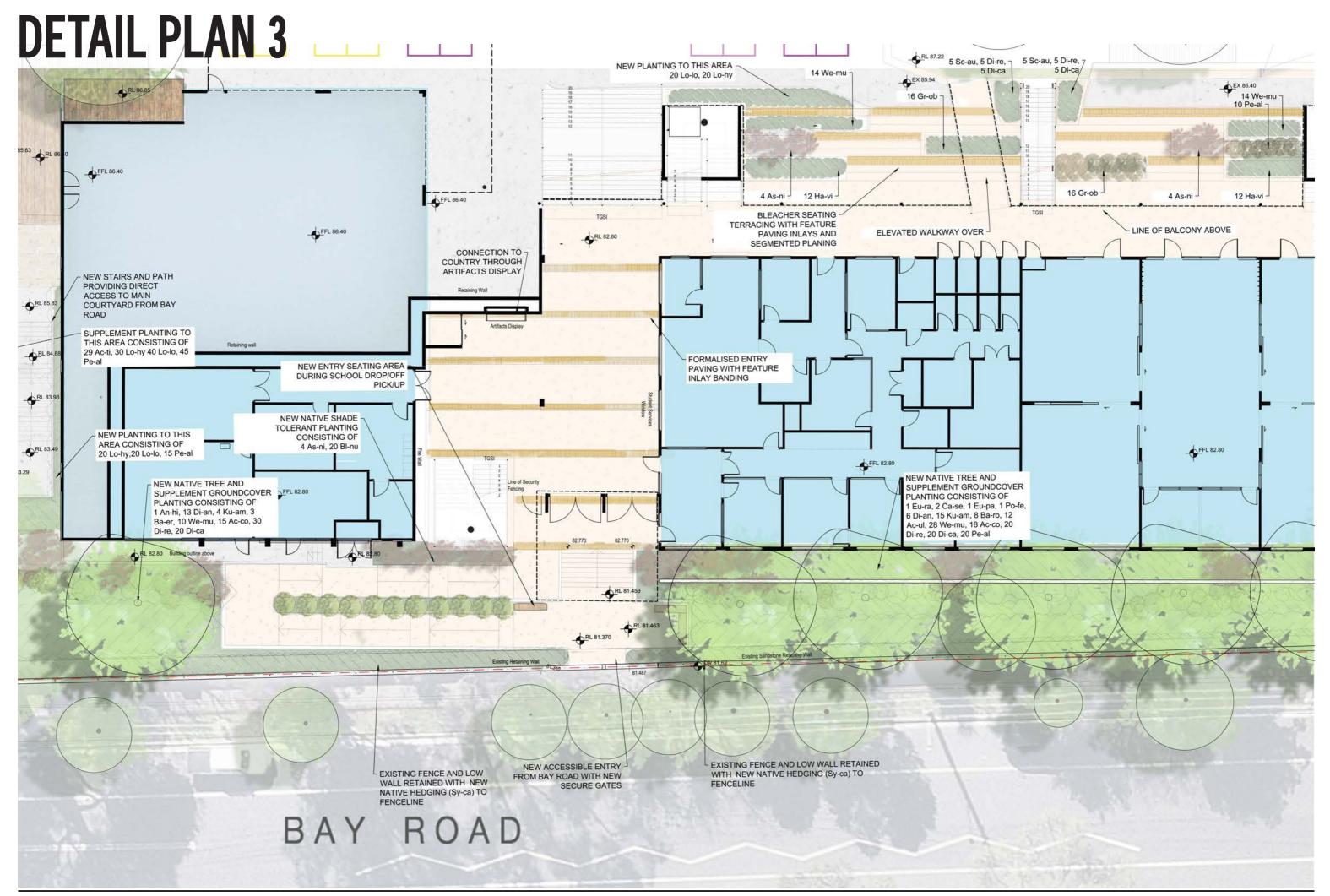


North Sydney Public School

# **DETAIL PLAN 2**

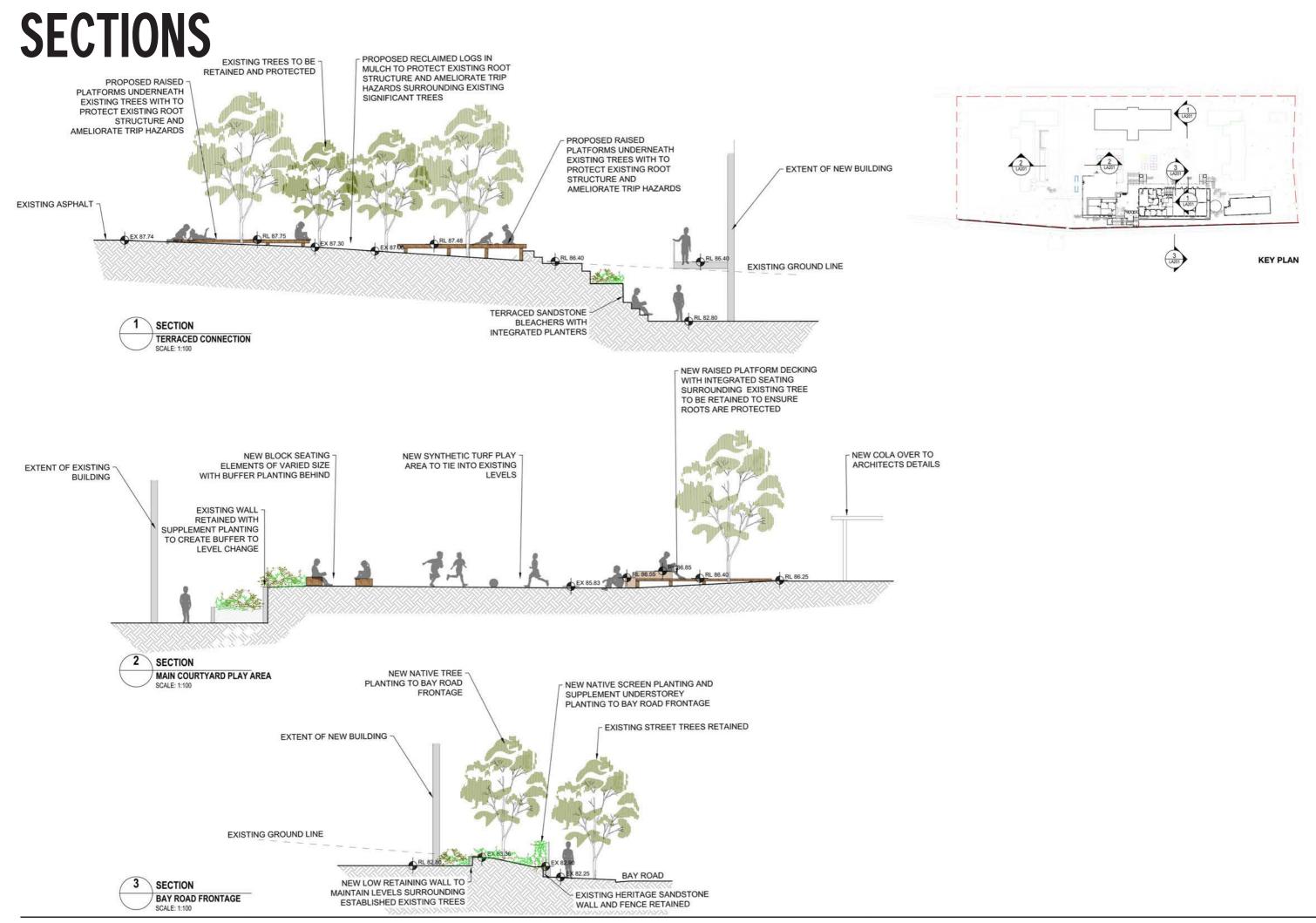


North Sydney Public School



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# **PLANTING PALATE**

#### PLANTING CHARACTER

THE PROPOSED PLANTING CHARACTER FOR THE SITE AIMS TO MAINTAIN CONSISTENCY WITH THE LOCAL CHARACTER OF NORTH SYDNEY LGA.

A MIX OF FLOWERING NATIVE PLANT SPECIES HAVE BEEN SELECTED TO CORRESPOND TO THE EXISTING VEGETATION ACROSS THE SITE.

PLANT SELECTIONS ARE SYMPATHETIC TO THE SITE'S ENVIRONMENTAL CONDITIONS, ENSURING THAT PLANT SPECIES OFFER HARDINESS TO ENSURE LONGEVITY.



















### PLANT SCHEDULE

	BOTANICAL NAME	COMMON NAME	HEIGHT (m)	SIZE	Qt
TREES					
An-hi	Angophora hispida	Dwarf Apple	2-4m	100L	3
Ba-in	Banksia integrifolia	Coastal Banksia	6	100L	2
Ba-se	5		8m	100L	2
Ca-se	Callicoma serratifolia	Black Wattle	4m	100L	3
Ce-gu	Ceratopetalum gummiferum	NSW Christmas Bush	Зm	100L	2
	Eucalyptus paniculata	Grey Iron Bark	20m	100L	3
Eu-ra	Eucalyptus racemosa	Scribbly Gum	12m	100L	1
Po-fe	Pomaderris ferruginea	Rusty Pomaderris	4m	100L	1
	Syzygium smithii	Lilly Pilly	12m	100L	3
HRUBS					
Ac-ul	Acacia ulicifolia	Prickly Moses	1m	300mm	22
Ac-ti	Acmena smithii 'Red Tip'	Lilly Pilly	2	300mm	20
As-ni	Asplenium Nidus	Birds Nest Fern	1.2	451	16
Ba-er	Banksia ericifolia	Heath Banksia	2m	300mm	3
12.22	Banksia robur	Swamp Banksia	2m	300mm	8
Ca-li	Callistemon linearis	Narrow-leaved Bottlebrush	1.5m	300mm	18
	Callistemon 'White ANZAC'	Bottlebrush	1m	300mm	29
Cr-sa	Crowea saligna	Pink Crowea	1m	300mm	2
Di-an	Diksonia antarctica	Wolly tree fern	2	75L	24
Gr-li	Grevillea linearifolia	White Spider Flower	2m	300mm	22
Gr-sp	Grevillea speciosa	Red Spider Flower	2m	300mm	25
	Kunzea ambigua	Tick Bush	1m	300mm	19
	Pultenaea daphnoides	Large-leaf Bush-pea	2m	300mm	14
Sy-Ca	Syzygium Cascade	Lilly Pilly	2m	300mm	16
We-fr	Westringia fruticosa	Coastal Rosemary	1.5m	300mm	5
ROUND	COVERS				
	Acacia cognata	Dwarf acacia	0.5	150mm	49
	Banksia 'Birthday Candles'	Prostrate Banksia	0.5	150mm	55
Bl-nu	Blechnum nudum	Blechnum	0.75	150mm	20
Di-ca	Dianella caerulea	Blue Flax Lily	0.75	150mm	50
Di-re	Dianella revoluta	Flax Lily	0.75	150mm	60
Gr-ob	Grevillea obtusifolia	Prostrate Grevillea	0.3	150mm	46
Ha-vi	Hardenbergia violacea	False Sasparilla	0.3	150mm	49
Lo-hy	Lomandra hystrix	Matt Rush	0.5	150mm	11
Lo-lo	Lomandra longifolia	Fine-leafed Matt Rush	0.5	150mm	15
My-pa	Myoporum parvifolium 'Yareena'	Creeping Boobialla	0.15	150mm	55
Pe-al	Pennisetum alopecuroides 'Nafray'	Swamp Foxtail	1	150mm	90
Sc-au	Scaevola 'Aussie Salute'	Fan Flower	0.3	150mm	10
Vi-he	Viola hederacea	Native Violet	0.3	150mm	45
We-mu	Westringia 'Mundi'	Prostrate Coast Rosemary	0.5	150mm	66









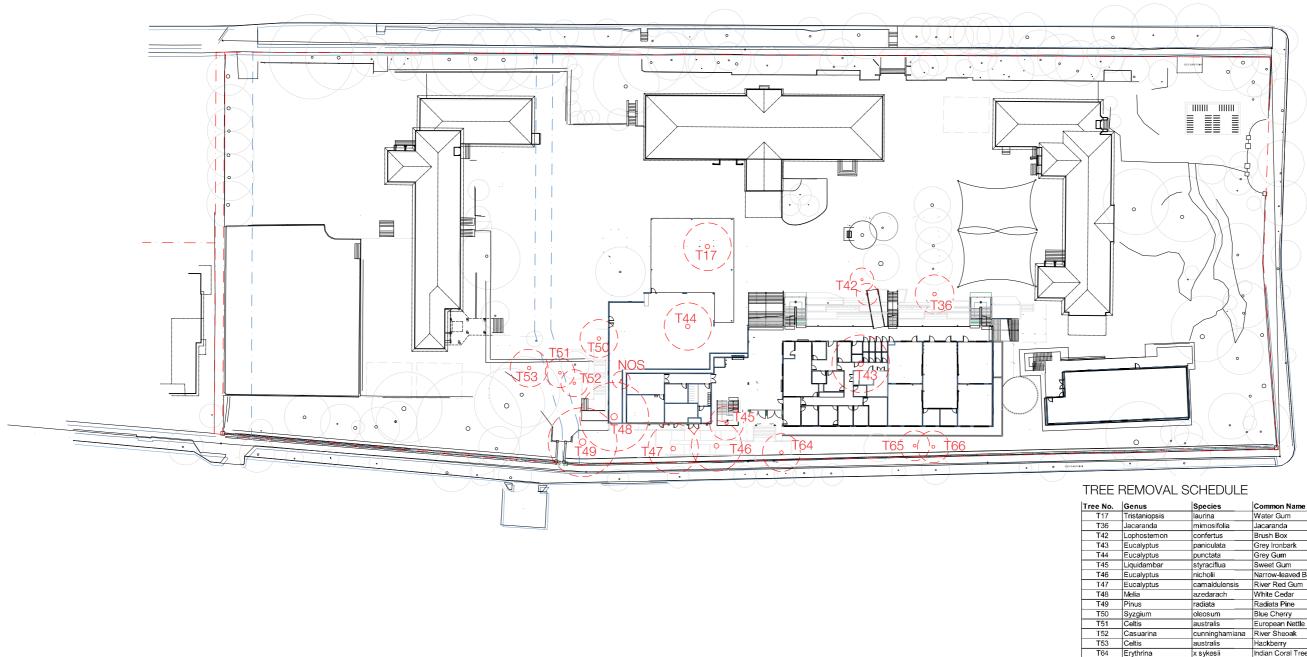








## **TREE REMOVAL/RETENTION**



\*NOS refers to trees for removal which are not included in the arborist report. Tree information as per arborist report prepared by Arboreport Vegetation Management consultants prepared August 2021

T65

T65 Lagerstroemia T66 Schefflera

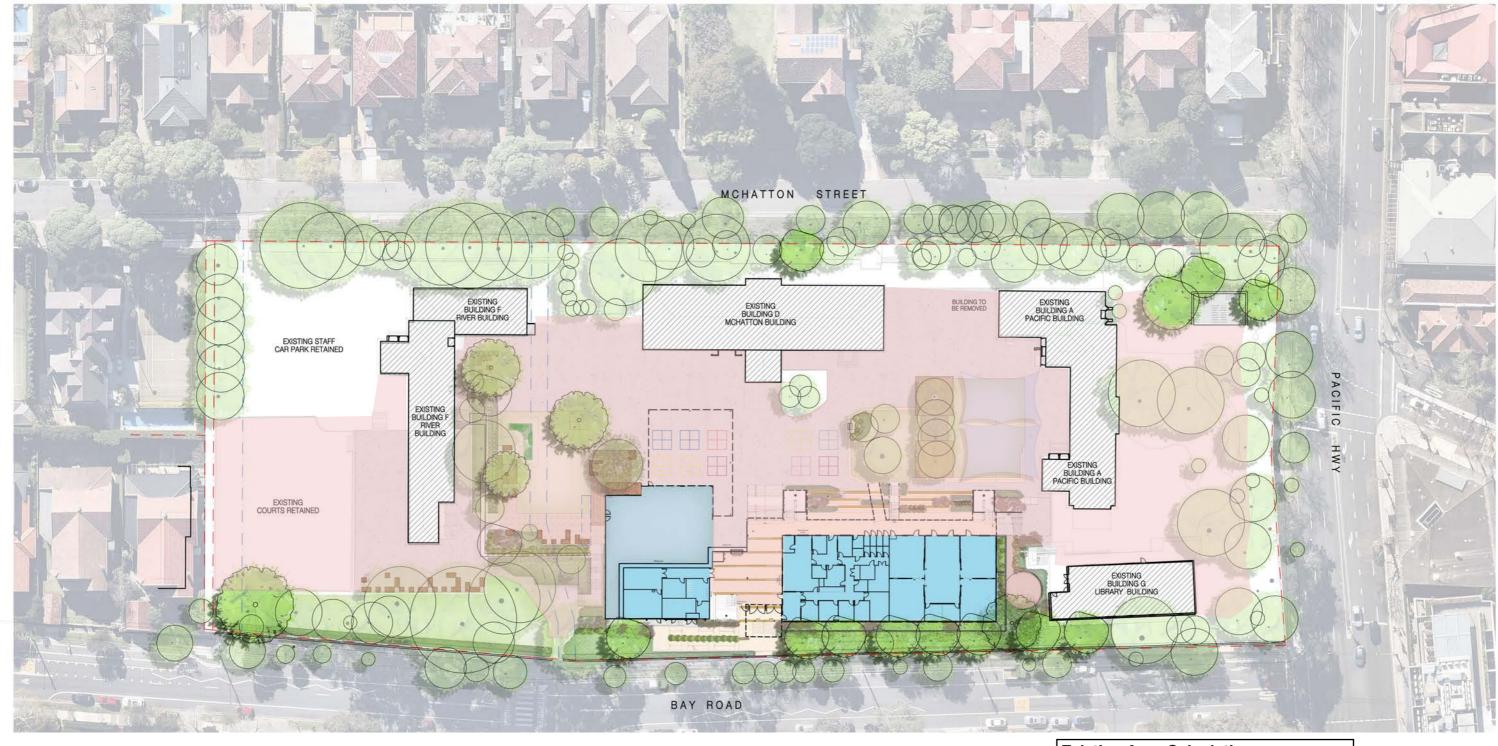
Species	Common Name	Height	Spread	Significance	Removed
laurina	Water Gum	12	13	Medium	Y
mimosifolia	Jacaranda	9	10	Low - Medium	Y
confertus	Brush Box	10	3	Low	Y
paniculata	Grey Ironbark	21	13	Medium - High	Y
punctata	Grey Gum	15	7	Low - Medium	Y
styraciflua	Sweet Gum	12	6	Low - Medium	Y
nicholii	Narrow-leaved Black Peppermint	11	8	Low	Y
camaldulensis	River Red Gum	16	9	Medium	Y
azedarach	White Cedar	10	13	Low - Medium	Y
radiata	Radiata Pine	18	11	Low	Y
oleosum	Blue Cherry	11	5	Medium	Y
australis	European Nettle Tree	10	5	Low	Y
cunninghamiana	River Sheoak	12	4	Low	Y
australis	Hackberry	10	8	Low	Y
x sykesii	Indian Coral Tree	8	8	Low	Y
indica	Crepe Myrtle	6	6	Low	Y
actinophylla	Umbrella Tree	7	7	Low	Y

### **PROPOSED TREE CANOPY**



Proposed Canopy Calculations				
Site Area	19,348m <sup>2</sup>			
Existing Tree canopy	6,251m <sup>2</sup>			
Existing Canopy Cover	<b>32%</b>			
Proposed Tree canopy	6,360m <sup>2</sup>			
Proposed Canopy Cover	<b>33%</b>			

### **PROPOSED PLAY SPACE**



Legend

Site Area 19,348m2

Active/Passive Play 9,527m2

Site Area 19,348m<sup>2</sup> Target Student No. 1012 Total Play Space before development 8,214m<sup>2</sup> Total Play Space after development 9,527m<sup>2</sup>

1012 Students

#### **Existing Area Calculations**

9.41m<sup>2</sup>/ea