



### **DOCUMENT/STATUS REGISTER**

Issue Date		Purpose	Approved	
01	23.06.2023	DRAFT ISSUE	IB	
02	19.07.2023	FOR REF	IB	
03	21.08.2023	FOR REF	IB	
04	13.09.2023	FOR REF	IB	
05	20.10.2023	FOR DA SUBMISSION	JH	
06	23.10.2023	FOR DA SUBMISSION	JH	

### PROJECT DETAILS

Site Address	9 Byrnes Street Broadwater NSW 2472
Site Area	8,837 m <sup>2</sup>

# Contents

## INTRODUCTION

The Proposal Site Description

# **DESIGN**

Landscape Design Development

Landscape Masterplan

Precedents

Tree Removal/ Retention Plan

DATE: 23 OCTOBER 2023

Section Elevations

Planting Strategy

### THE PROPOSAL

The existing buildings at Broadwater Public School, 9 Byrnes Street, Broadwater (Lot 4 & 5, Deposited Plan (DP) 1043232 and Lot 501 DP 755624) were significantly inundated during the February 2022 floods and most of the structures are no longer habitable due to the damages caused by the flood waters. As a result, the NSW Department of Education is proposing to demolish the existing school buildings and construct a new elevated school building to replace it. The floor level of the new building will be located above the design flood level to increase flood resistance and create useable undercroft spaces.

The proposed works will be undertaken via DA pathway under Part 4 of the Act and Section 3.36 of the T&I SEPP. The Landscape Design has been assessed against the Design Quality Principles in Schedule 8 of SEPP (Transport and Infrastructure) 2021

### Works will comprise the following:

- Site preparation including site establishment works, earthworks and relocation of heritage bell.
- · Demolition of existing school buildings.
- Construction of a new elevated school building, with atgrade (undercroft) amenities and storage, including:

### Ground Level:

- Open undercroft space for covered outdoor learning and play
- Male and female amenities and accessible toilet / change room facility.
- Cleaners Store.
- Sports Store.
- Equipment and general store.

#### Elevated Level:

- New administration comprising interview room, clerical spaces, Principal's office, staff room, sick bay, store and male, female and accessible amenities.
- School library with computer room, store, main communications room and library office.
- Three (3) General Learning Spaces (GLS) with learning commons and multi-purpose space.
- Canteen with open servery space.
- Store
- · Male, female and accessible amenities.
- Mechanical plant.
- New hard and soft landscaping including replacement playing field, playground, half games court and vegetable garden and new yarning circle.
- It is not proposed to increase staff or student numbers as a result of these works.



Source: Site aerial photograph (Nearmap)

### SITE DESCRIPTION

The site is located at 9 Byrnes Street, Broadwater in the local government area of Ballina Shire Council. The site located in a rural setting with farmland surrounding much of the site's boundary. The Richmond River is located in close proximity to the site west with separation being provided by the Blackwall Drive.

The site is formally described as Lot 4-5 DP1043232 The site a square like shape and has an area of 8,837m<sup>2</sup>. and has a riparian

zone running the length of the western boundary. There are no heritage listings associated with the site.

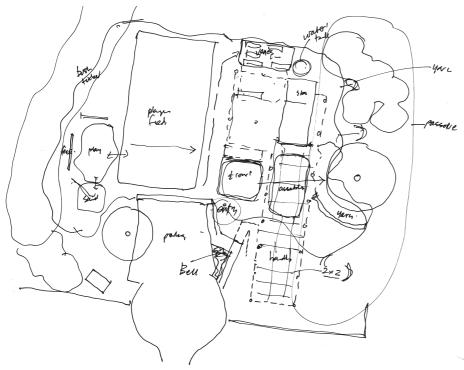
The site is zoned RU1 land and adjacent to a flood planning zone and category 1 fire risk zone across the river, there is also identified "Key Fish Habitat." within the river.

Immediately surrounding the school, to the north and south are detached residential blocks

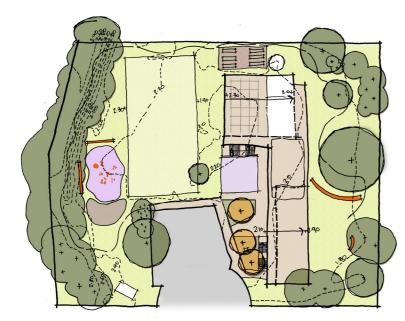
**REVISION F** 

# 4.0 Design

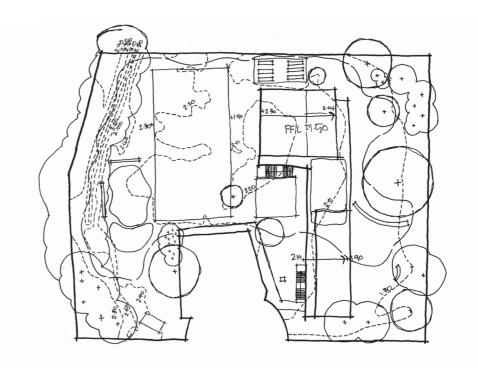
# LANDSCAPE DESIGN DEVELOPMENT



1 INITIAL SITE PLANNING
The functional program overlaid onto the preliminary architectural site plan with levels and drainage.



SITE PLANNING AND ARCHITECTURE
The functional program overlaid onto the preliminary architectural site plan with levels and drainage.



REFINED SITE PLANNING
Planning of site functions and resolution of finished levels over existing site contours

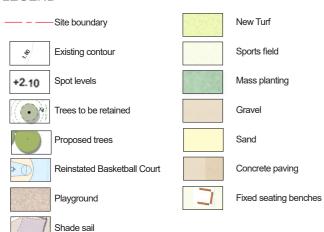


LANDSCAPE CONCEPT

The functional program overlaid onto the preliminary architectural site plan with levels and drainage.

# LANDSCAPE MASTERPLAN

### LEGEND



### DIALOGUE

- 1 School entry with feature garden and heritage bell
- 2 Yarning circle with indigenous gardens and new canopy tree planting
- 3 New location of playground with sand pit
- 4 New level turfed sports field
- 5 Decorative fence retained as feature for playground
- 6 Half court basketball re-instated with new basketball and netball rings to either end of the court
- 7 The 'Love Tree'
- 8 Passive seating space







### NOTES

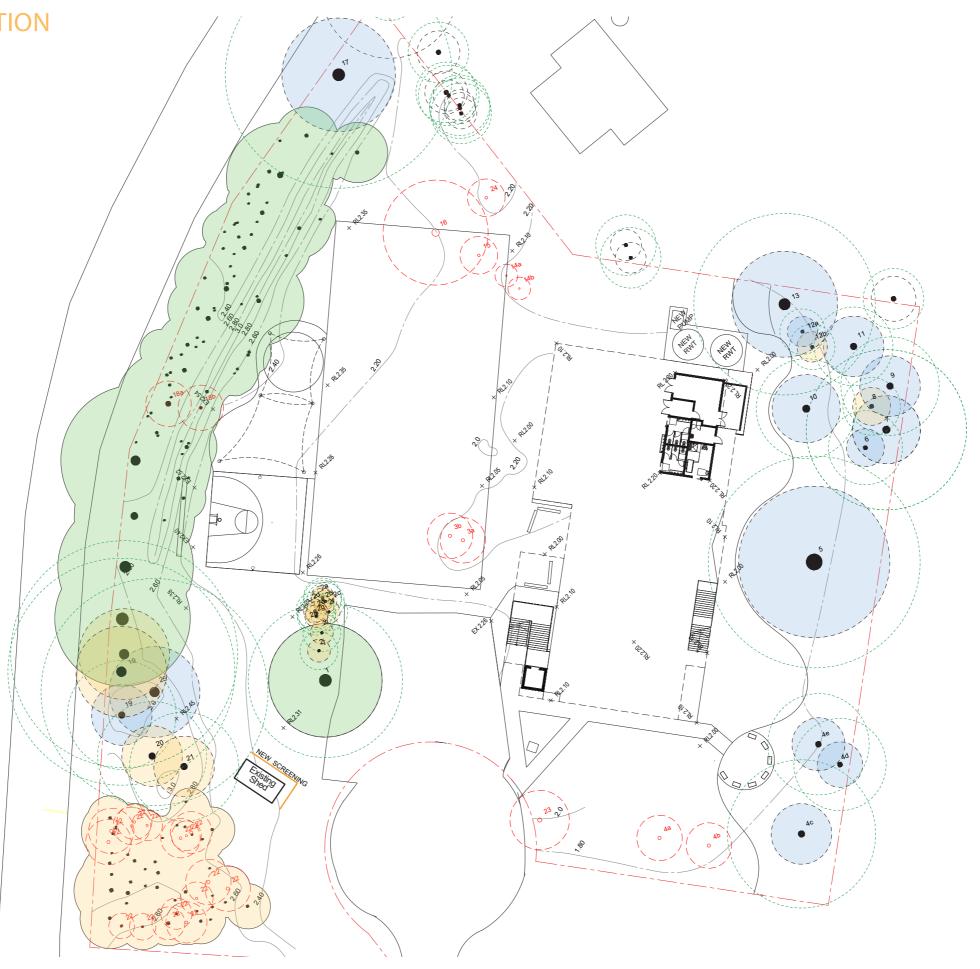
1.THIS PLAN HAS BEEN COORDINATED WITH THE LATEST ARBORICULTURAL REPORT, PREPARED BY NORTHERN TREE CARE. (22.06.2023)

HIGH RETENTION VALUE

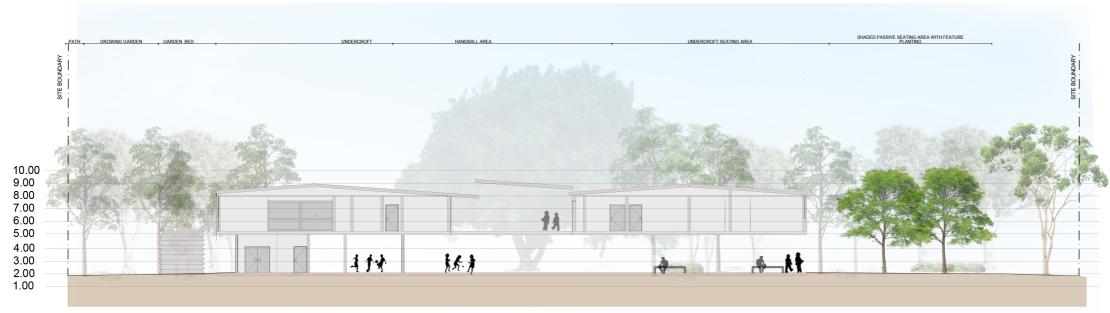
MEDIUM RETENTION VALUE

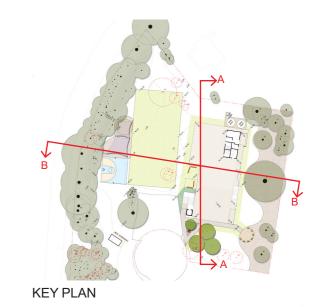
LOW RETENTION VALUE

2. REFER TO ARBORIST REPORT FOR TREE SPECIES AND CONDITION DETAILS

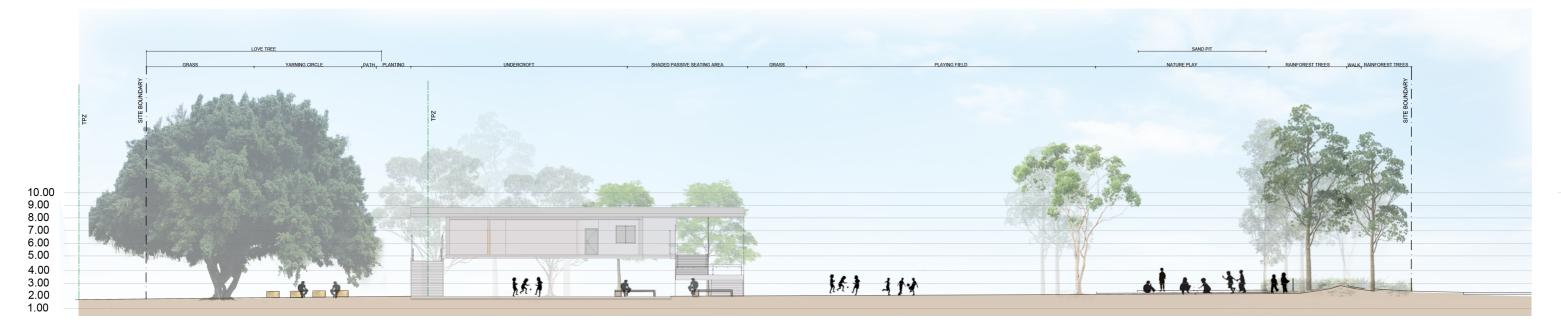


# **SECTION ELEVATIONS**





SECTION/ELEVATION AA 1:150 @ A1



SECTION/ELEVATION BB 1:150 @ A1

## PLANTING SCHEDULE

Symbol	Botanical Name	Common Name	Height	Canopy	Memorial Garden	General	Yarning Circle	Bush Tucker
	TREES							
AIM	Acronychia imperoforata	Coastal Apple	8m - 10m	2m - 3m				
ALI	Allocasuarina littoralis	She Oak	8m - 10m	2m - 3m				
AFL	Alloxylon flammeum	Tree Waratah	15m - 18m	3m - 4m				•
BCI	Backhousia citriodora		5m - 6m	3m - 4m				
BRO	Banksia robur	Swamp Banksia	2m - 3m	1.5m - 2m				
BSE	Banksia serrata	Old Man Banksia	6m - 8m	3m - 4m				
BCE	Buckinghamia celsissima	Ivory Curl Tree	25m - 30m	3m - 4m				
CSA	Callistemon salignus	Willow Bottlebrush	8m - 10m	3m - 4m				
CST	Cordyline stricta	Slender Palm Lily	1.5m - 2m	1m - 1.5m				
CAN	Cupaniopsis anacardioides	Tuckeroo	6m - 8m	6m - 7m				
ERE	Elaeocarpus reticlatus	Blueberry Ash	8m - 10m	3m - 4m				
GSU	Glochidion sumatranum	Umbrella Cheese Tree	13m - 15m	6m - 7m				
HPE	Harpullia pendula	Tulipwood	18m - 20m	5m - 6m				
HFL	Hymenosporum flavum	Native Frangipani	8m - 10m	4m - 5m				
LCO	Lophostemon confertus	Brush Box	15m - 18m	9m - 10m				•
MQI	Melaleuca quinquenervia	Broad Leaved Paperbar		3m - 4m				
SAU	Syzygium australe	Brush Cherry	6m - 8m	3m - 4m				
TLA	Tristaniopsis laurina	Water Gum	6m - 8m	3m - 4m				
WFL	Waterhousea floribunda	Weeping Lilly Pilly	13m - 15m	9m - 10m				
	SHRUBS							
ABR	Alocasia brisbanensis	Cunjevoi Lily	1m - 1.5m	1m - 1.5m				
ACA	Alpinia caerulea	Native Redback Ginger		1m				
ADU	Austromyrtus dulcis	Midgenberry	0.5m	0.8m				
BLI	Baeckea linifolia	Swamp Myrtle	1.5m - 2m	1.5m - 2m				l .
BRU	Bauera rubioides	Dog Rose	1.5m - 2m	1.5m - 2m				
BFL	Boronia floribunda	Pale Pink Boronia	1m	0.4m - 0.6m				
BSE	Boronia serrulata Callistemon citrinus 'Little John'	native Rose	1m	0.4m - 0.6m 1m - 1.5m				
CLJ CHI		Dwarf Bottlebrush	1m 2m - 3m	1m - 1.5m				
CRU	Coprosma hirtella	Looking glass plant	1m - 1.5m	0.4m - 0.6m				
CAL	Cordyline rubra Correa alba	Red-fruited Palm Lily Correa	1m - 1.5m	1m - 1.5m				
CPE	Crinum pedunculatum	Swamp Lily	1m - 1.5m	2m - 3m				
CAU	Curcuma australasica	Cape York Lily	1m	0.7m - 0.9m				
DCI	Darwinia citriodora	Lemon-Scented Darwini		1m - 1.5m				
DRE	Dillwynia retorta	Egg and Bacon Plant	1m - 1.5m	1m				
PGL	Pimelea glauca	Slender Rice Flower	0.5m	0.4m - 0.6m				1
RPI	Ricinocarpos pinifolius	Wedding Bush	1.5m - 2m	1m - 1.5m				•
ZPI	Zeiria pilosa	Hairy Zieria	0.9m	1m				
RLO	Rhododendron Lochiae	Australian Rhododendro	1.5m - 2m	1m - 1.5m				
HHE	Hibiscus heterophyllus	Native Rosella	4m - 5m	2m - 3m				
	Randia moorei	Native Gardenia	8m - 10m	2m - 3m				
	GROUNDCOVERS							
BMU	Brachycome multifida 'Break O' Da	a) Rock Daisy						
CGL	Carpobrotus glaucescens	Pigface	0.3m	1.5m - 2m				
DDI	Dampiera diversifolia	Dampiera	0.2m	0.7m - 0.9m				_
DSP	Dendrobium speciosum	Rock Orchid						
HSC	Hibbertia scandens	Guinea Flower, Snake V		4m - 5m				
LPC	Leptospermum 'Pink Cascade'	Tea Tree	0.6m	1m - 1.5m				
MPA	Myoporum parvifolium	Creeping Boobialla	0.3m	2m - 3m				•
VHE	Viola hederacea	Native Violet	0.2m	1m				l
SHU	Scaevola humilis	Fan Flower	0.4m	0.4m - 0.6m				ı
	GRASSES							_
CAP	Carex appressa	Tall Sedge	1m	1m				
DCA	Dianella caerulea	Paroo Lily	0.8m	1m				
DRE	Dianella revoluta	Blue Flax-Lily	1m	1m - 1.5m				
LHY	Lomandra hystrix	Creek Mat Rush	1m	1m				
LLO	Lomandra longifolia	Mat Rush	1m	1m				
TAU	Themeda australis	Kangaroo Grass	0.8m	1m				
OAE	Oplismenus aemulus	Basket Grass	0.3m	0.4m - 0.6m				
	FERNS							
AFO	Adiantum formosum	Giant Maidenhair Fern	1m - 1.5m	0.7m - 0.9m				
ACU	Archontophoenix cunninghamiana		8m - 10m	2m - 3m				
AAU	Asplenium australasicum	Bird's Nest Fern	0.5m	1m - 1.5m				
BIN	Blechnum indicum	Swamp Water Fern	0.8m	0.4m - 0.6m				l
CAU	Cyathea australis	Rough Tree Fern	6m - 8m	2m - 3m				
CCO DAS	Cyathea cooperi	Lacy Tree Fern, Australi		3m - 4m 0.1m - 0.3m				
DAO	Doodia aspera	Rasp Fern	0.3m	U. IIII - U.SIN				ı

## **PLANTING IMAGERY**



Syzgium australe

Austromyrtus dulcis

Curcuma australsica

Lomandra hystrix









Alpinia caerulea

Alocasia brisbanensis



Boronia floribunda



Coprosma hirtella





Darwinia citrodora



Themeda australis Doodia aspera

## **PLANTING STRATEGY**

All species have been selected for their suitability to the local plant communities of Far North Estuarine Mangrove-Swamp Oak Forest (ID 4090) and Far North Floodplain Paperbark-Swamp Oak Forest (ID 3987) (NSW Department of Planning and Environment). These species are permitted in the Richmond Valley Development Control Plan (2021). All plants are indigenous species, play-friendly, and present many educational possibilities. The list has been crosschecked with Kidsafe.nsw and the Education Facilities Standards and Guidelines.

The entry of the school features trees and shrubs with prolific flowers and attractive forms. General planting species have ambient qualities such as lemon scent, shade, and durability. The Bush Tucker garden will contain plants with various traditional Aboriginal culinary uses. Traditional Aboriginal uses of plants across the whole school can be further explored in terms of implement making and medicinal uses.