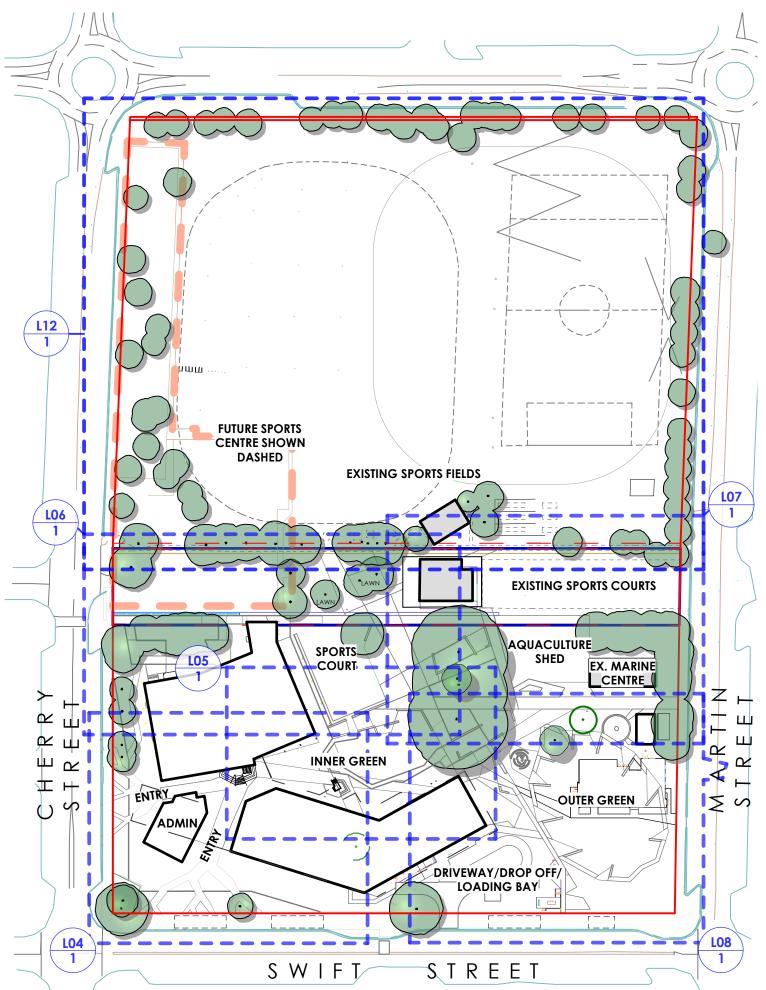
# landscape development application A New High School for Ballina

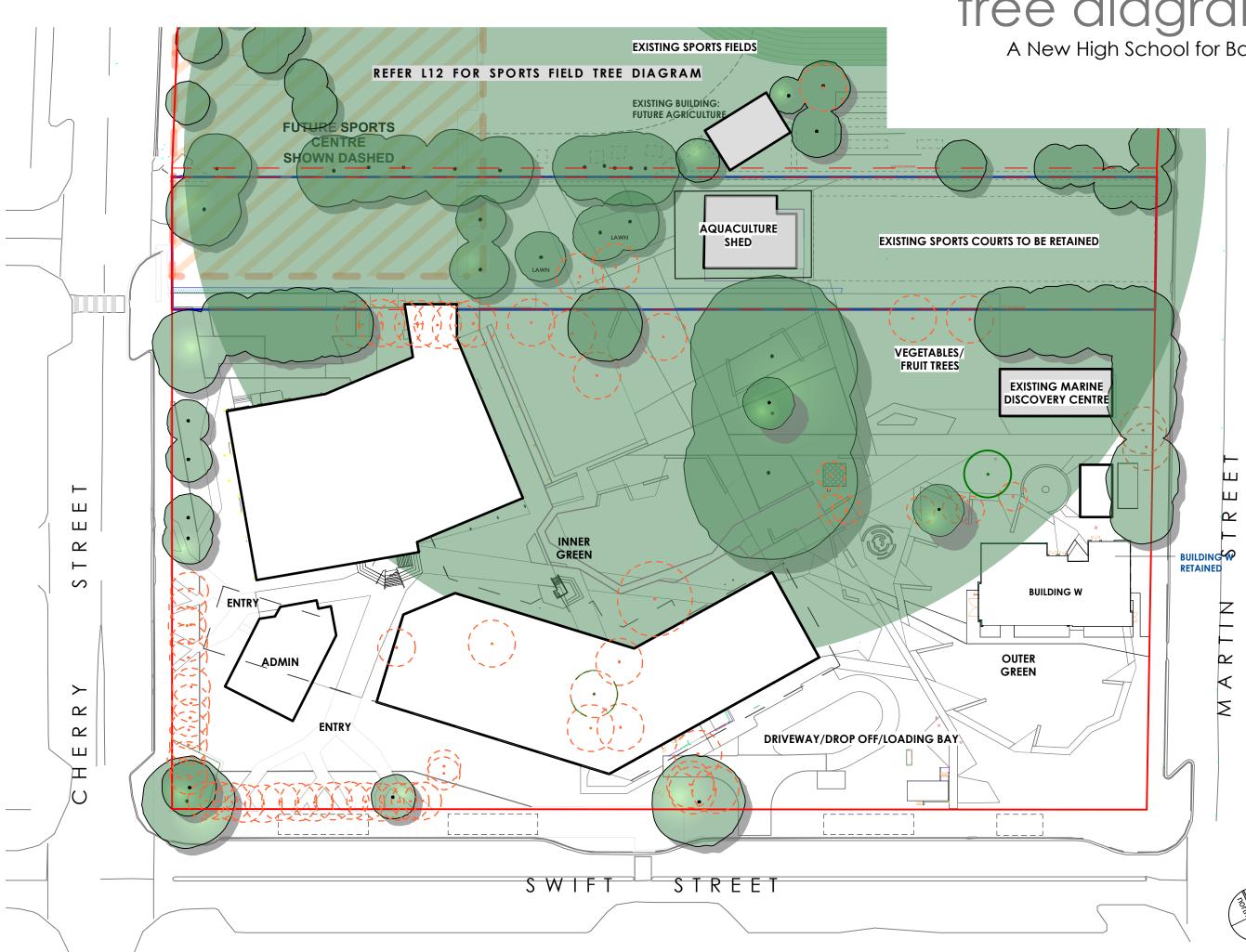


# 10806.5 DA L00 cover po 10806.5 DA L01 tree diag 10806.5 DA L02 landsca 10806.5 DA LO3 site plan 10806.5 DA L04 main en 10806.5 DA L05 inner gre 10806.5 DA LO6 active re 10806.5 DA L07 primary 10806.5 DA L08 outer gre 10806.5 DA L09 percede 10806.5 DA L10 planting 10806.5 DA L11 planting

# sheet index

DRAWING NUMBER	SHEET NAME	REV. No.	REV. DATE
10806.5 DA L00	cover page	G	24/9/18
10806.5 DA L01	tree diagram	F	24/9/18
10806.5 DA L02	landscape concept	F	24/9/18
10806.5 DA L03	site plan	G	24/9/18
10806.5 DA L04	main entrance	G	24/9/18
10806.5 DA L05	inner green courtyard	G	24/9/18
10806.5 DA L06	active recreation	G	24/9/18
10806.5 DA L07	primary industry/conservation	G	24/9/18
10806.5 DA L08	outer green	G	24/9/18
10806.5 DA L09	percedents	D	22/5/17
10806.5 DA L10	planting palette - littoral rainforest entry gardens	D	22/5/17
10806.5 DA L11	planting palette - internal courtyards & playgrour	D	22/5/17
10806.5 DA L12	sports field tree diagram	А	24/9/18





# A New High School for Ballina

## LEGEND

SITE BOUNDARY

EXISTING BUILDINGS TO BE RETAINED PROPOSED BUILDING OUTLINE

EXISTING TREES TO BE RETAINED

EXISTING TREES TO BE REMOVED

45 PROPOSED NEW TREE PLANTINGS TO SPORTS FIELDS

A	1/8/16	prelim. layout
В	12/8/16	prelim for client review
С	19/9/16	DA Issue
D	22/5/17	DA Revisions
E	30/5/17	show relocated ex. tree
F	24/9/18	Building W & Field Layout

PROJECT:

A New High School for Ballina

## SITE:

37 - 49 Swift Street Ballina NSW 2478

CLIENT: NSW Department of education

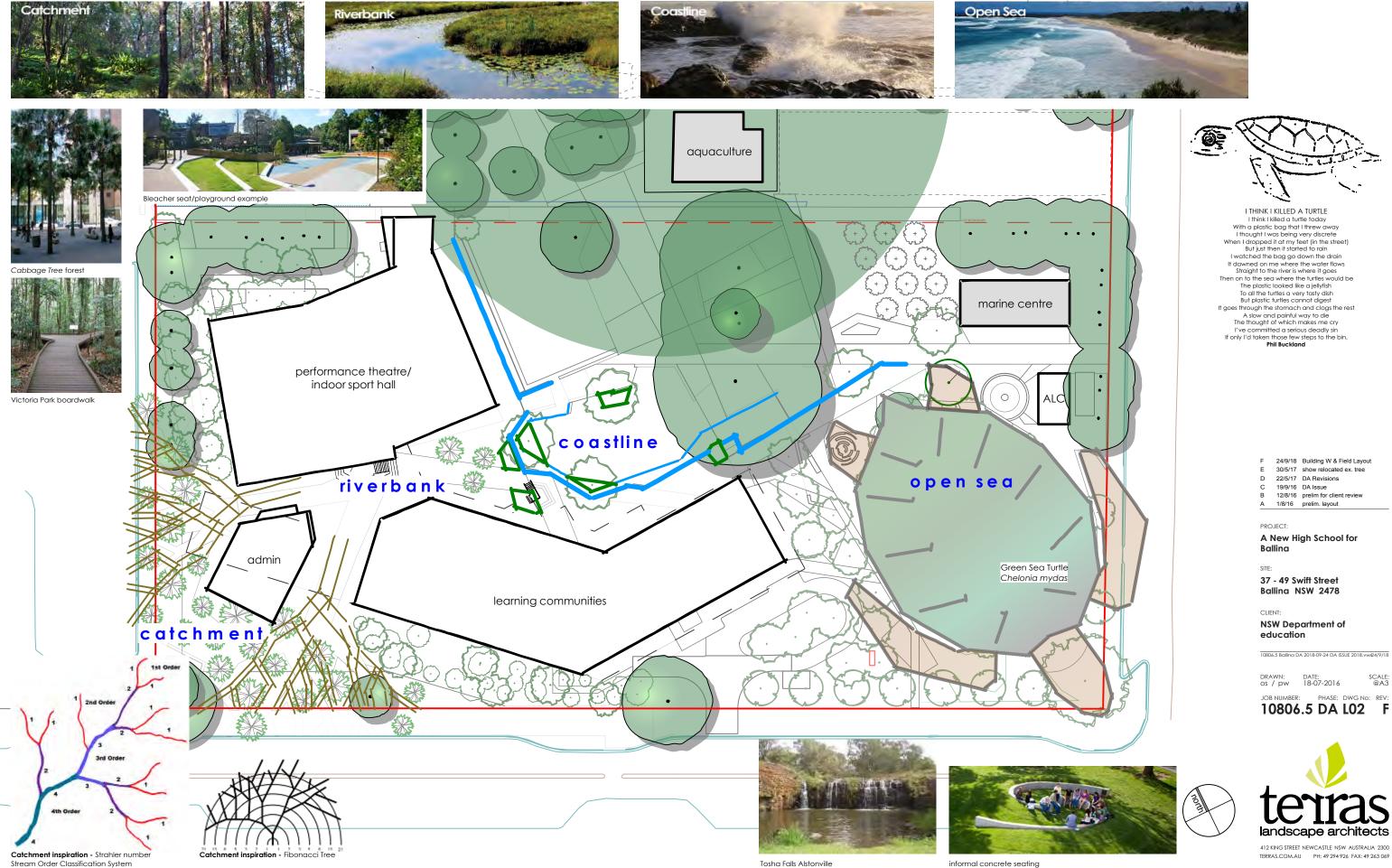
10806.5 Ballina DA 2018-09-24 DA ISSUE 2018.vws24/9/18

DRAWN: DATE: SCALE: os / pw 18-07-2016 @A3





# landscape concept | L02



# A New High School for Ballina

F	24/9/18	Building W & Field Layout
Е	30/5/17	show relocated ex. tree
D	22/5/17	DA Revisions
С	19/9/16	DA Issue
в	12/8/16	prelim for client review
А	1/8/16	prelim. layout



# site plan LO3

## LEGEND







OXIDE COLOURED CONCRETE PAVEMENT

CONCRETE PAVERS

PERMEABLE PAVEMENT SURFACE

RAISED BOARDWALK

LOW CONCRETE SITTING WALL

LAWN AREAS

MASS PLANTED AREAS

EXISTING TREES TO BE RETAINED

EXISTING TREES TO BE REMOVED

PROPOSED NEW TREE PLANTINGS

1	A	1/8/16	prelim. layout
	В	12/8/16	prelim for client review
	С	19/9/16	DA Issue
	D	18/10/16	rev. ACL
	E	22/5/17	DA Revisions
	F	30/5/17	show relocated ex. tree
	G	24/9/18	Building W & Field Layout

PROJECT:

A New High School for Ballina

SITE: 37 - 49 Swift Street Ballina NSW 2478

CLIENT: NSW Department of education

10806.5 Ballina DA 2018-09-24 DA ISSUE 2018.vws24/9/18

DRAWN: DATE: SCALE: os / pw 18-07-2016 @A3





# main entrance | L04 A New High School for Ballina



# - STAIRWAY TO ARCHITECT'S DETAIL

INTERNAL COURTYARD, REFER L05

# CONCRETE FEATURE PAVEMENT LINE OF WALKWAY OVER

BOARDWALK ENTRY WALKWAY. XIMUM 600mm AGL. PATHWAY TO REPRESENT CATCHMENT STREAM TRIBUTARIES/TREE STRUCTURE

CONCRETE PATHWAY

EXISTING BRACHYCHITON RUPESTRIS (QUEENSLAND BOTTLE TREE) TO BE RELOCATED

PASSIVE COOLING LITTORAL FOREST MASS PLANTING

MAINTENANCE/DELIVERY PATHWAY

EXISTING ARAUCARIA SP. (NORFOLK ISLAND PINE) TO BE RETAINED

CONCRETE FOOTPATHS BEYOND PROPERTY LINE TO BE SAWCUT TO EXTEND STREAM/TREE GRAPHIC

- EXISTING BUS SHELTERS TO BE RETAINED



### LEGEND









CONCRETE PAVERS

PERMEABLE PAVEMENT SURFACE

RAISED BOARDWALK

LOW CONCRETE SITTING WALL

LAWN AREAS

MASS PLANTED AREAS

EXISTING TREES TO BE RETAINED

EXISTING TREES TO BE REMOVED

PROPOSED NEW TREE PLANTINGS

1/8/16	prelim. layout
12/8/16	prelim for client review
19/9/16	DA Issue
31/10/16	rev. ACL
22/5/17	DA Revisions
30/5/17	show relocated ex. tree
24/9/18	Building W & Field Layout
	30/5/17 22/5/17 31/10/16 19/9/16

PROJECT:

A New High School for Ballina

37 - 49 Swift Street Ballina NSW 2478

CLIENT: **NSW** Department of education

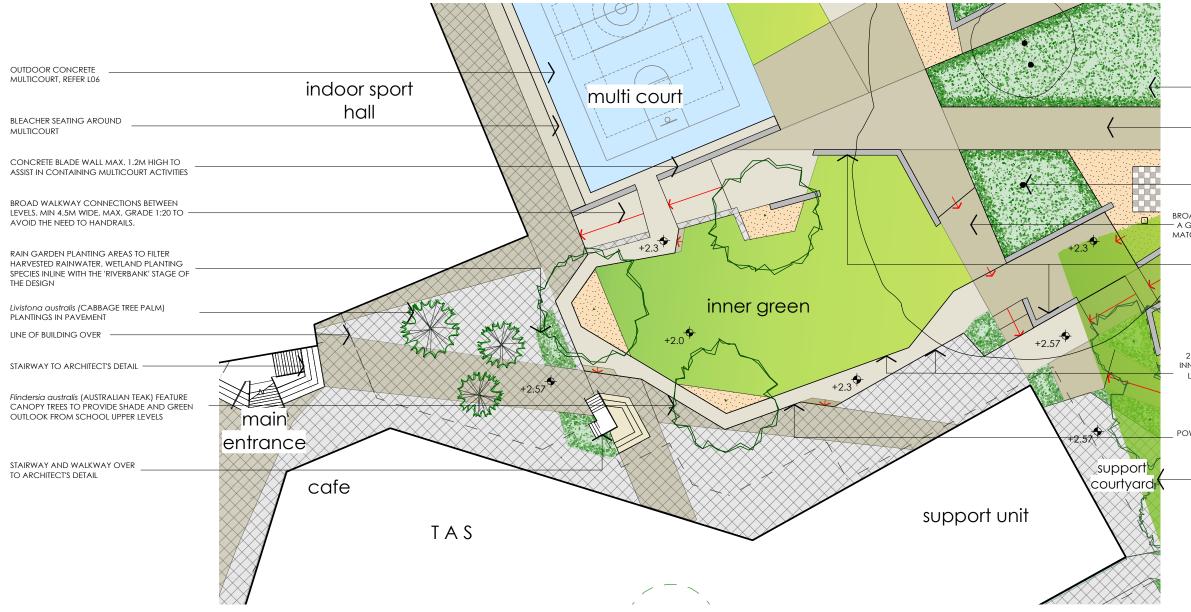
10806.5 Ballina DA 2018-09-24 DA ISSUE 2018.vw24/9/18

DRAWN: DATE: os / pw 18-07-2016 SCALE: @A3





# inner green courtyard | L05 A New High School for Ballina



inner green courtyard

Scale: 1:400 L05

## LEGEND

OXIDE COLOURED CONCRETE PAVEMENT

CONCRETE PAVERS

PERMEABLE PAVEMENT SURFACE

RAISED BOARDWALK

LOW CONCRETE SITTING WALL

LAWN AREAS

MASS PLANTED AREAS

EXISTING TREES TO BE RETAINED

EXISTING TREES TO BE REMOVED

PROPOSED NEW TREE PLANTINGS









PROJECT:

A New High School for Ballina

37 - 49 Swift Street Ballina NSW 2478

CLIENT: NSW Department of education

10806.5 Ballina DA 2018-09-24 DA ISSUE 2018.vw/24/9/18

DRAWN: DATE: os / pw 18-07-2016 SCALE: @A3









412 KING STREET NEWCASTLE NSW AUSTRALIA 2300 TERRAS.COM.AU PH: 49 294 926 FAX: 49 263 069



CONCRETE PATHWAY

EXISTING TREES TO BE RETAINED

BROAD STEPDOWNS IN PATHWAY TO MAINTAIN — A GOOD CONNECTION BETWEEN LEVELS AND MATCH EXISTING LEVELS OVER TREE ROOTZONE

CONCRETE BENCH SEATING

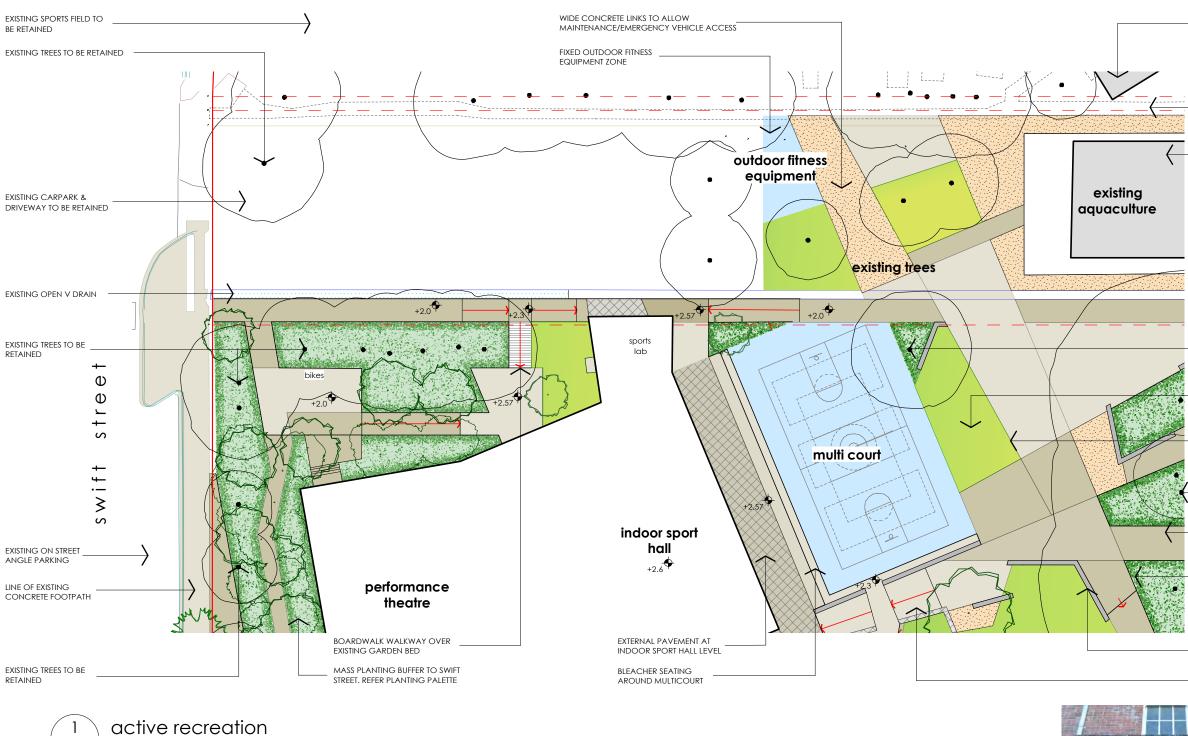
2 TIER SITTING EDGE AROUND PERIMETER OF INNER GREEN LAWN. CONNECTION TO RAMP LANDING MAINTAINS DISABLED ACCESS TO ALL AREAS

POWER AND USB CHARGING INCORPORATED INTO BI FACHER SEATING

> SUPPORT UNIT COURTYARD. REFER L08 FOR DETAIL



# active recreation | L06 A New High School for Ballina



Scale: 1:500

L06



playground/bleacher seat example

EXISTING BUILD TO BE RETAINED AND REPURPOSED AS SPORTS AND GARDEN MAINTENANCE EQUIPMENT STORE

	EXITING CONCRETE PATHWAY	
/	EXISTING AQUACULTURE SHED AND NURSERY AREA	
`	,	LEGEND
		OXIDE COLOURED CONCRETE PAVEMENT
		CONCRETE PAVERS
		PERMEABLE PAVEMENT SURFACE
		RAISED BOARDWALK
		LOW CONCRETE SITTING WALL
		LAWN AREAS
£	EXISTING TREE TO BE RETAINED	EXISTING TREES TO BE RETAINED
•	EXISTING BALLINA HIGH SCHOOL BUILDING ENTRY TO BE RETAINED	EXISTING TREES TO BE REMOVED
	HIGH SCHOOL BUILDING FOOTINGS — TO BE REPRESENTED CONCRETE BAND IN LAWN	PROPOSED NEW TREE PLANTINGS
	EXISTING TREES TO BE	G 24/9/18 Building W & Field Layout F 30/5/17 show relocated ex. tree
1	RETAINED	E 22/5/17 DA Revisions D 31/10/16 rev. ACL
	OXIDE COLOURED	C 19/9/16 DA Issue B 12/8/16 prelim for client review
•	CONCRETE PATHWAY	A 1/8/16 prelim. layout
	MASS PLANTING AREAS	PROJECT: A New High School for
	BENEATH EXISTING TREES	Ballina
1-2-0 1-2-0		SITE:
- A.		37 - 49 Swift Street

BENCH SEATING. REFER L05 FOR INNER GREEN COURTYARD DETAIL

1:20 WALKWAYS CONNECTING CHANGE IN LEVELS





landscape arc

412 KING STREET NEWCASTLE NSW AUSTRALIA 2300 TERRAS.COM.AU PH: 49 294 926 FAX: 49 263 069

G	24/9/18	Building W & Field Layout
F	30/5/17	show relocated ex. tree
E	22/5/17	DA Revisions
D	31/10/16	rev. ACL
С	19/9/16	DA Issue
В	12/8/16	prelim for client review
A	1/8/16	prelim. layout

Ballina NSW 2478

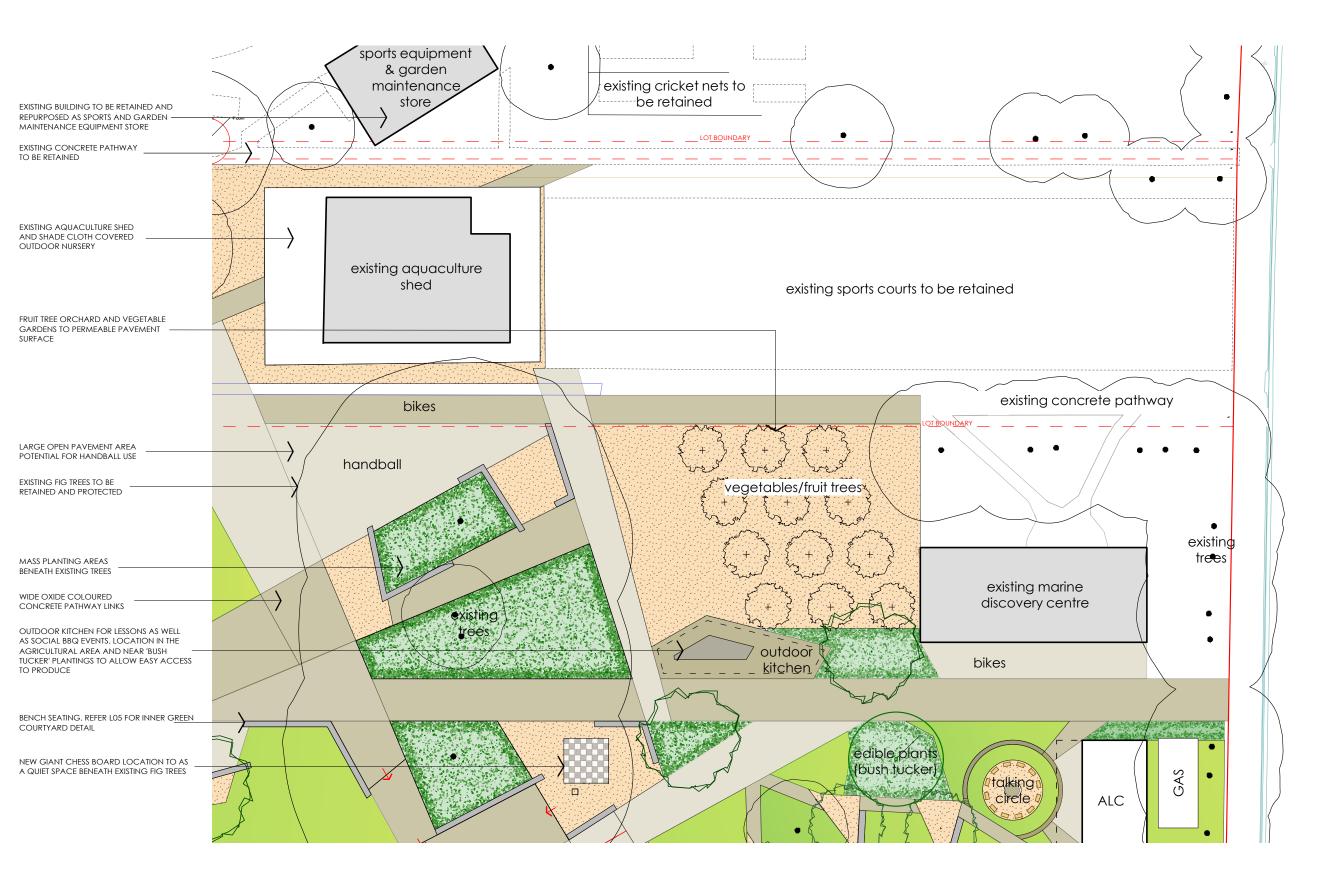
### CLIENT: **NSW** Department of education

10806.5 Ballina DA 2018-09-24 DA ISSUE 2018.vw/24/9/18





# primary industry/conservation | L07 A New High School for Ballina





### LEGEND









CONCRETE PAVERS

PERMEABLE PAVEMENT SURFACE

RAISED BOARDWALK

LOW CONCRETE SITTING WALL

LAWN AREAS

MASS PLANTED AREAS

EXISTING TREES TO BE RETAINED

EXISTING TREES TO BE REMOVED

PROPOSED NEW TREE PLANTINGS

G	24/9/18	Building W & Field Layout
F	30/5/17	show relocated ex. tree
E	22/5/17	DA Revisions
D	31/10/16	rev. ACL
С	19/9/16	DA Issue
В	12/8/16	prelim for client review
A	1/8/16	prelim. layout

PROJECT:

A New High School for Ballina

SITE

37 - 49 Swift Street Ballina NSW 2478

CLIENT: NSW Department of education

10806.5 Ballina DA 2018-09-24 DA ISSUE 2018.vw/24/9/18

DRAWN: DATE: os / pw 18-07-2016 ©ALE: @A3









# Outer greenL08A New High School for Ballina

BOUNDARY FENCE AND GATE

GAS STORAGE TANK

PERMEABLE PAVEMENT SURFACE & A CIRCLE OF INFORMAL STONE BENCH SEATS WITH A CENTRAL AREA SUITABLE TO FACILITATE SMOKING CEREMONY

ANNUAL ASSESSMENT OF EXISTING TREES ADJACENT TO GAS TANK TO MONITOR ANY IMPACT OF TANK LOCATION

# **BUILDING W** RETAINED

CONCRETE PATHWAY

EXISTING KERB AND GUTTERING WITH BUS PARKING AREAS

PERMEABLE PAVEMENT SITTING AREAS WITH CONCRETE BENCH SEATING AND SHADE TREE

BOUNDARY PLANTING TO PROVIDE A MIX OF LAWN AND MASS PLANTED BEDS TO PRESENT A VEGETATED FROM TO THE STREET WILE STILL ALLOWING PASSIVE SURVEILLANCE AFTER HOURS

> SEATING MOUND FOR OUTDOOR PRESENTATIONS OR TO OBSERVE ACTIVITIES WITHIN THE OUTER GREEN LAWN AREA

PROPOSED FIG TREE PLANTING TO MOUND TO MATCH CHERRY STREET CORNER AND PROVIDE A CANOPY TO THE SEATING AREA BELOW

BOUNDARY FENCE

EXISTING BUS SHELTERS TO BE RETAINED



## LEGEND









CONCRETE PAVERS

PERMEABLE PAVEMENT SURFACE

RAISED BOARDWALK

LOW CONCRETE SITTING WALL

LAWN AREAS

MASS PLANTED AREAS

EXISTING TREES TO BE RETAINED

EXISTING TREES TO BE REMOVED

PROPOSED NEW TREE PLANTINGS

A	1/8/16	prelim. layout
В	12/8/16	prelim for client review
С	19/9/16	DA Issue
D	31/10/16	rev. ACL
Е	22/5/17	DA Revisions
F	30/5/17	show relocated ex. tree
G	24/9/18	Building W & Field Layout

PROJECT:

A New High School for Ballina

## SITE

37 - 49 Swift Street Ballina NSW 2478

CLIENT: **NSW** Department of education

10806.5 Ballina DA 2018-09-24 DA ISSUE 2018.vw/24/9/18

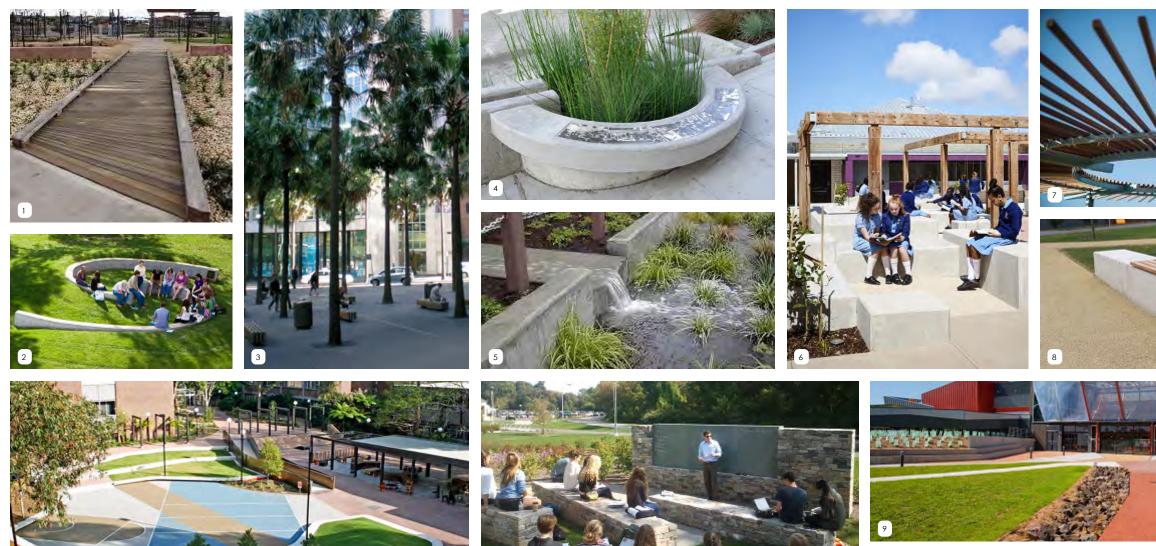
DRAWN: DATE: os / pw 18-07-2016 SCALE: @A3













1. ENTRY BOARDWAK EXAMPLE TO MAIN ENTRY

CABBAGE TREE PALM FOREST TO MAIN ENRTY

5. STORMWATER MANAGEMENT WITH RAIN GARDENS

4. RAIN GARDEN EXAMPLE FOR INNER GREEN COURTYARD WETLAND PLANTERS

2. INFORMAL CONCRETE SEATING EXAMPLE

3.









- 13. OUTDOOR KITCHEN / BBQ AREA
- 14. INDICATVE IMAGE OF DECORATIVE FENCE TREATMENT FOR SUPPORT UNIT COURTYARD
- 15. LOCKABLE OUTDOOR SKATEBOARD RACK
- 16. SMARTPHONE SCANABLE PLANT ID TAGS

- 8. CONCRETE AND COMPOSITE TIMBER BENCH SEATS
- 9. FLEXIBLE OPEN PLAYGROUND TREATMENT INDICITAVE OF INNER GREEN MULTICOURT AREA TREATMENTS

7. CUSTOM SHADE STRUCTURE EXAMPLE FOR TALKING CIRCLE OR OUTDOOR LEARNING AREAS

- 10. INFORMAL OUTDOOR CLASSROOM IMAGE
- 11. WHEELCHAIR ACCESSIBLE VEGETABLE BEDS
- 12. CROSSFIT OUTDOOR TRAINING EQUIPMENT
- 6. EXAMPLE OF CONCRETE SEATING FOR SMALL GROUPS PROPOSED BENEATH EXISTING FIG TREES

# A New High School for Ballina



D	22/5/17	DA Revisions
С	19/9/16	DA Issue
в	12/8/16	prelim for client review
Δ	1/8/16	prelim lavout

PROJECT:

A New High School for Ballina

SITE

37 - 49 Swift Street Ballina NSW 2478

CLIENT: NSW Department of education

10806.5 Ballina DA 2018-09-24 DA ISSUE 2018.vw24/9/18

DRAWN: DATE: os / pw 18-07-2016 SCALE: @A3





# planting palette - littoral rainforest entry gardens | L10



### plant list

- 1. Livistona australis
- 2. Dianella caerulea
- 3. Doodia aspera
- 4. Banksia robur
- 4. Barnala 10001
- 5. Alpinia caerulea
- 6. Alocasia brisbanensis
- 7. Alpinia arundelliana
- 8. Cordyline congesta
- 9. Podocarpus elatus
- 10.Lomandra lonaifolia
- 11.Asplenium australasicum
- 12.Hibbertia scandens
- 13.Ficus fraseri
- 14.Brachychiton discolor
- 15.Ficus coronata
- 16.Hibiscus tiliaceus

Cabbage-tree Palm Flax Lilly Rasp Fern Swamp Banksia Native Ginger Cunjevoi Wavy leaved Ginger Narrow-leaved Palm Llily Plum Pine Mat Rush Birds Nest Fern Snake Vine White Sandpaper Fig Lacebark Tree Sandpaper Fig Cottonwood



D	22/5/17	DA Revisions
С	19/9/16	DA Issue
в	12/8/16	prelim for client review
А	1/8/16	prelim. layout

PROJECT:

A New High School for Ballina

### SITE:

37 - 49 Swift Street Ballina NSW 2478

CLIENT: NSW Department of education

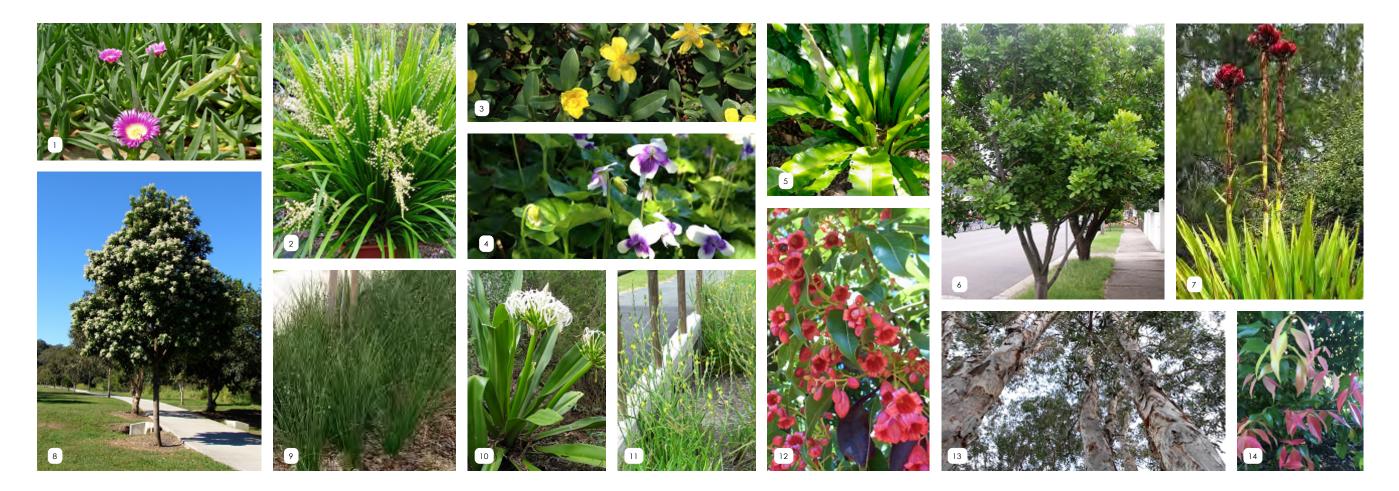
10806.5 Ballina DA 2018-09-24 DA ISSUE 2018.vws24/9/18

DRAWN: DATE: SCALE: os / pw 18-07-2016 @A3





# Janting palette - internal courtyards & playgrounds L11



### plant list

<ol> <li>Carpobrotus g</li> </ol>	laucescens
-----------------------------------	------------

- 2. Lomandra hystrix
- 3. Hibbertia scandens
- 4. Viola hederacea
- 5. Asplenium australasicum
- 6. Cupaniopsis anacardiodes
- 7. Doryanthes excelsa
- 8. Flindersia bennettiana
- 9. Ficinia nodosa
- 10.Crinum pedunculatum
- 11.Philydrum lanuginosum
- 12.Brachychiton discolor
- 13.Melaleuca quinquenervia
- 14.Syzygium Francisii
- Mat Rush Snake Vine Native Violet Birds Nest Fern Tuckaroo Gymea Lily Bennett's Ash Knobby Club-rush Swamp Lilly Frog Mouth Lacebark Tree broad-leaved paperbark Giant Water Gum

Pig Face

D	22/5/17	DA Revisions
С	19/9/16	DA Issue
в	12/8/16	prelim for client review
	4/0/40	and the law and

PROJECT:

A New High School for Ballina

### SITE:

37 - 49 Swift Street Ballina NSW 2478

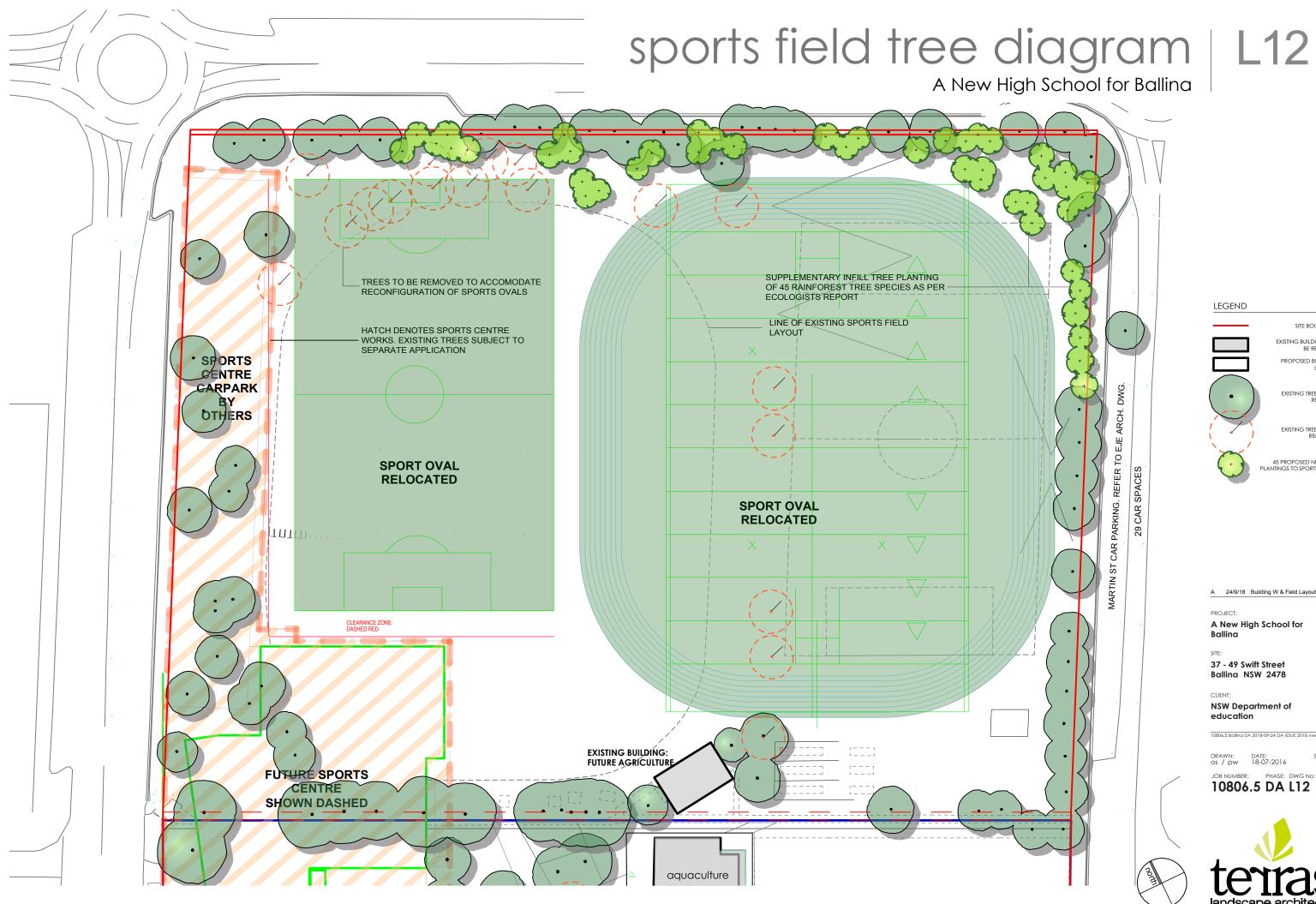
CLIENT: NSW Department of education

10806.5 Ballina DA 2018-09-24 DA ISSUE 2018.vws24/9/18

DRAWN: DATE: SCALE: os / pw 18-07-2016 @A3







## LEGEND

SITE BOUNDARY EXISTING BUILDINGS TO

BE RETAINED PROPOSED BUILDING OUTLINE

EXISTING TREES TO BE RETAINED

EXISTING TREES TO BE REMOVED

45 PROPOSED NEW TREE PLANTINGS TO SPORTS FIELDS

A 24/9/18 Building W & Field Layout

PROJECT: A New High School for Ballina

SITE 37 - 49 Swift Street

Ballina NSW 2478

CLIENT: **NSW** Department of education

10806.5 Ballina DA 2018-09-24 DA ISSUE 2018.vws24/9/18

DRAWN: DATE: os / pw 18-07-2016 SCALE: @A3



