





#### LANDSCAPE DESIGN STATEMENT

Equitable access provides opportunity for access to key site play and learning areas.

Chkd

KC

The New Hope campus to be located within the grounds of the Pacific Hills Christian School (PHCS) and is a purpose-built education facility catering The main landscape features of the site are: for students from K 12 who have mild intellectual disabilities or Autism Spectrum Disorder (ASD). No significant vegetation The design of the new campus has been undertaken in a collaborative manner with the teams Architects and Engineers and has undergone a process of stakeholder engagement with staff from Hew Hope and PHCS. The landscape design has been integrated with the built elements and when complete the landscape spaces will appear as cohesive and lieu areas The overarching design principles are: To create a positive image within the community to engender pride in the school and its surrounds; To create a non-threatening and secure environment for the students; Landscape Strategies To provide environmental comfort to all users; To create a connection to the wider school campus; seasonal displays of flowers and foliage. The landscape spaces will offer opportunity for the students to play, learn and socialise in a safe and secure environment. The building and landscape spaces offer sufficient capacity and flexibility such that special events involving students, parents and invited guests can occur in comfort, for example year end assemblies, concerts and social occasions. The site is well connected to existing school facilities with pedestrian access to the oval to the north and the main campus to the east. The landscape design incorporates: ? Retained boundary hedge planting to the south and west enhanced with new canopy tree planting, shrubs, grasses and groundcovers garden Carparking garden areas with tree, shrub and groundcover planting to the new carpark, traffic islands, and arrival spaces; appropriate landscape treatments to school open space areas with provision for (a) open play spaces; shrubs, grasses and groundcovers. (b) fixed play equipment areas; and (c) outdoor learning spaces directly connected to classrooms. The design accommodates the following principles to assist children with intellectual disability and ASD to engage in play and outdoor learning activities: Boundary Fencing Provide for physical play that is age appropriate and provides a progression of challenge; be retained. Provide for imaginative play; Have structured movement with clearly defined paths, preferably circuits and not linear; Provide for interaction; Provide for retreat and observation by individuals; Pleasant environmental conditions; Interaction with nature. Streetscape The landscape design accommodates the following play elements to achieve the principles of play outlined above: Fixed play equipment and open areas for movement and activity to allow for development of gross motor skills; Irrigation and Maintenance Herb and Vegetable gardens planting for group use and "paddock to plate" learning; Sensory garden with a range of plant types and ground textures with Asthma and Allergy friendly plant species; Elevated observation areas to allow outlook over play space; edged for ease of maintenance, refer details. Shade in the form of structures and trees; Coloured pavements with low glare / non reflective qualities; Well defined outdoor spaces enclosed by planting; Clearly defined paths and ramps for wayfinding with clearly define edges to assist sight impaired students. Secure boundary fencing that is non climbable Materials selection (hard and soft landscape elements) have been made on the basis that they are robust, fit for purpose and suitable for use within a school environment.

Description No. Date Preliminary Issue for Coordination KC 17/07/2019 B 28/08/2019 Issue for DA

**DEVELOPMENT APPLICATION** NEW HOPE CAMPUS | PACIFIC HILLS CHRISTIAN SCHOOL

9 QUARRY ROAD, DURAL NSW 2158



#### North facing sloping land with a cross fall of approximately 9.0 metres

Fenced boundary areas with hedge planting; Adjoining land uses residential to the south and plant nursery to the west with school property to the north and east Outlook to adjoining open space areas, sports fields and bushland.

I he site is accessed by an unformed lane to the east connecting with Quarry Road. There are no natural features on the site such as rock outcrop and the like. The site is not in a heritage conservation zone. The north western corner of the site is in a bushfire zone.

Planting using semi advance and advanced container sizes will occur to ensure an immediate impact is achieved. Advanced tree sizes of 75 to 100 Litre will occur to ensure their establishment in high use areas. Tree planting will be provided to shade play spaces and create interest through

Plant species will be selected for their low allergenic qualities, yet provide interest through a variety of floral displays and foliage habits. Sensory planting, bush tucker planting and herb / vegetable gardens are to be proposed.

A range of fencing types and styles are proposed in order to define various play spaces. Planting is encouraged to grow through fences to softening their appearance. Plant species have been selected using the Hills Shire Council recommended plant species list refer DCP 2012 Section C3, in conjunction with species that are known to thrive on the existing campus.

The proposed new carpark is extensively landscaped with a 2.0 metre wide centre landscape strip containing shade trees, shrubs and groundcovers. The southern boundary features a 4.0 metre wide landscape strip contain shade trees and retaining and existing boundary hedge. Boundary hedge planting is to be retained on the western boundary. Two traffic islands near the main building entry are to be extensively planted with shade trees,

#### The landscape areas are protected by raised kerbs and wheel stops.

The existing 1.8 m high metal palisade boundary fencing to the lane way from Quarry Road, to the southern and western residential boundaries is to

New fencing will work in conjunction with building lines to secure the New Hope Campus. This will be a 2.4 metre metal palisade fence and where possible planting is to occur to soften fence lines and provide enhanced privacy and acoustic separation.

Balustrades are proposed above the northern slab edges to 1.6 metre high using metal and glass to meet BCA standards.

The existing access lane at the main school entry off Quarry Road will be utilised for vehicle access to the New Hope campus.

All garden areas are readily accessible for ease of maintenance. Plant species have been selected for their hardiness and ability to withstand the site conditions. All garden areas are to be mulched to aid plant establishment and weed suppression. All garden and turf areas are to be appropriately

Planting in carparks is to be pruned in order to maintain clear sightlines to signage, intersections and pedestrian crossings.

The installation of the works will be undertaken by a qualified landscape contractor and will be subject to a minimum twelve month defects liability period. During this time the contractor will be required to undertake regular maintenance visits, replace failed plants and rectify defects. After this period the ongoing maintenance will be the responsibility of the school.





$\widehat{\mathbf{n}}$	SITE PLAN	
2	1:500 @ A1	

LANDSCAPE DEVELOPMENT APPLICATION - DRAWING SCHEDULE				
SHEET No. TITLE SCALE				
LDA000	COVER PAGE	As Shown @ A1	В	
LDA100	LANDSCAPE ARRANGEMENT PLAN 01	1:200@ A1   1:400@ A3	В	
LDA101	LANDSCAPE ARRANGEMENT PLAN 02	1:200@ A1   1:400@ A3	В	
LDA200	LANDSCAPE SECTIONS	As Shown @ A1	В	
LDA300	PLANTING PALETTE	N/A	В	
LDA400	LANDSCAPE DETAILS/ SPEC	N/A	В	

Drawing Title COVER PAGE

Project NEW HOPE CAMPUS

Location

9 QUARRY ROAD, DURAL NSW 2158

Client PACIFIC HILLS CHRISTIAN SCHOOL



# NBRSARCHITECTURE. LANDSCAPE







1 LANDSCAPE PLAN 01 1:200 @A1

				LEGEND			
lssu No.	e Date	Description	Chkd		SITE BOUNDARY	-0	2.4m PALLISADE
A	17/07/2019	Preliminary Issue for Coordination	KC	🕁 RL 00.00	PROPOSED GROUND LEVEL		FENCE STORE LOCATION
В	28/08/2019	Issue for DA	KC		EXISTING GROUND LEVEL		SEATING
					LOW HEIGHT	and a second	SEATING

SCREEN FENCE





DECIDUOUS TREE

EVERGREEN TREE

SHRUBS, GROUND COVERS & GRASSES Drawing Title LANDSCAPE ARRANGEMENT PLAN 01 Project NEW HOPE CAMPUS

9 QUARRY ROAD, DURAL NSW 2158

Client PACIFIC HILLS CHRISTIAN SCHOOL



# NBRSARCHITECTURE. LANDSCAPE



- (1) SAND AND WATER PLAY SPACE
- 2 SYNTHETIC TURF
- 3 GARDENS AND SEATING AT ENTRY TO ENCOURAGE GATHERING
- 4 EXTERNAL CLASSROOM BREAKOUT SPACE FEATURING LOW HEIGHT SCREEN FENCE, ORNAMENTAL TREES, SHRUBS AND GRASSES WITH LAWN.
- 5 RAISED VEGETABLE GARDEN FOR HERB / VEGETABLE / BUSH TUCKER PLANTING, WORM FARM, AND COMPOST BIN.
- 6 GARDEN AREA BETWEEN BUILDING WITH PLANTING TO SOFTEN THE FENCE LINE.
- (7) MAIN ENTRY MOMENT TO SCHOOL
- 8 STEPPED SEATING AREA
- (9) SYNTHETIC TURF MOUND
- 10 RELOCATED FIXED PLAY EQUIPMENT ON RUBBER SOFTFALL
- 11 FENCED PLAY SPACE WITH EQUIPMENT THAT REQUIRES HIGHER SUPERVISION
- (12) CLIMB PROOF BOUNDARY SECURITY FENCE
- (13) SHADE TREE PLANTING
- (14) CONNECTION TO EXISTING SCHOOL
- (15) NEW HOPE CAMPUS CARPARK
- (16) EXTENSIVE PLANTING TO ISLAND GARDEN BEDS
- (17) RETAIN EXISTING HEDGE AND INTRODUCE TALL NATIVE TREE PLANTING TO SOFTEN BOUNDARY
- (18) DROP OFF BAY
- (19) NEW HOPE CAMPUS ENTRY DRIVEWAY
- (20) EXISTING TREE TO BE REMOVED



#### PLANTING SCHEDULE

### **BUSH TUCKER SPECIES LIST**

Plant List				
ID	Qty	Botanical Name	Common Name	Scheduled Size Remarks
Trees				
CA	11	Cupaniopsis anacardioides	Tuckeroo	45LT
ER	13	Elaeocarpus reticulatus	Blueberry Ash	75LT
EUR	7	Eucalyptus robusta	Swamp Mahogany	100LT
LI	3	Lagerstroemia indica 'Natchez'	Crepe Myrtle	200LT
MG	2	Magnolia grandiflora 'Little Gem'	Little Gem Southern Magnolia	75LT
PB	1	Prunus x blireana	Blireana Plum	200LT
PU	6	Pyrus ussuriensis	Manchurian pear	100LT
QE	1	Quercus ilex	Evergreen Oak	400LT
SL	3	Syzygium luehmannii	Small-leaf Lilly Pilly	45LT
WF	29	Waterhousia floribunda	Weeping Lilly Pilly	100LT
Shrubs				
ASF	41	Acmena smithii	Lillypilly	45LT
AL	14	Alpinia zerumbet 'Variegata'	Variegated Shell Ginger	15LT
AD	18	Alternanthera dentata	Little Ruby	5LT
AZ	31	Anigozanthos 'Bush Blaze'	Bush Blaze Kangaroo Paws	5LT
AN	38	Asplenium nidus	Birds-Nest Fern	5LT
СР	14	Carex appressa	Tall Sedge	2.5LT
DC	11	Dianella caerulea	Blue Flax-lily	2.5LT
DR	121	Dianella revoluta	Blue Flax Lily	2.5LT
DE	41	Doryanthes excelsa	Gymea Lily	15LT
GJ	13	Gardenia jasminoides	Gardenia	25LT
GR	265	Grevillea 'Royal Mantle'	Royal Mantle Grevillea	2.5LT
НА	62	Hebe albicans	Hebe	5LT
KU	4	Kniphofia uvaria	Red Hot Poker	5LT
LM	8	Liriope muscari	Big Blue Lily Turf	5LT
ND	8	Nandina domestica	Sacred Bamboo	25LT
PA	29	Pennisetum alopecuroides	Fountain Grass	5LT
PEA	29	Pennisetum setaceum 'Rubrum'	Purple Fountain Grass	5LT
PX	13	Philodendron Xanadu	Philodendron	5LT
PAU	19	Phlebodium aureum	Blue Star Fern	5LT
PIAu	30	Plumbago auriculata	Plumbago	25LT
RI	4	Rhaphiolepis indica	Indian Hawthorn	15LT
TV	54	Tulbaghia violacea	Society Garlic	2.5LT
WFR	28	Westringia fruticosa	Coastal Rosemary	15LT
Ground Covers				
AR	152	Ajuga reptans	Bugle, Wild Mint	5LT
BG	25	Blechnum gibbum 'Silver Lady'	Silver Lady	5LT
GD	9	Gazania 'Double Gold'	Double Gold Gazania	2.5LT
HV	26	Hardenbergia violacea	Purple Twining-pea	5LT
JC	203	Juniperus conferta	Shore Juniper	5LT
TJ	97	Trachelospermum jasminoides	Star Jasmine	15LT
Grasses				
Total	1483			

Sensory Garden				
Touch				
JC	Juniperus conferta			
SA	Salvia argentea			
SB	Stachys byzantia			
ZF	Zamia furfuracea			
Taste				
AS	Allium schoenoprasum			
СР	Carum petroselinium			
MS	Mentha spictata			
Smell				
LD	Lavandula dentata			
MV	Mentha var			
PS	Pelargonium sp.			
RO	Rosemary officinalis			
Sight				
HA	Helianthus annuus			
KP	Kniphoifa praecox			
Sound				
AD	Allocasuarina distyla			
Bush Tuc	ker Planting			
Tree Plai	nting			
BC	Backhousia citriodora			

BC	Backhousia citriodora			
DP	Davidsonia pruriens			
LA	Livistona australis			
Shrub Pl	lanting			
AL	Acacia longifolia			
ALC	Alpinia caureulea			
BE	Banksia ericifolia			
CAL	Callistemon species			
CS	Cordyline stricta			
CYA	Cyathea australis			
EL	Eupomatia laurina			
GV	Grevillea var			
XA	Xanthorrhoea australis			
Groundc	overs / Climbers			
BI	Blechnum indicum			
CAN	Cissus antartica			
PAS	Passiflora herbertiana			
PK	Poa poiformis Kingsdale			
RH	Rubus hilli			
Herb Ga	rden			
AR	Armoracia rusticana			
AS	Allium schoenoprasum			
CC	Cymbopogon citratus			
OV	Origanum vulgare			
RO	Rosemary officinalis			
SO	Salvia officinalis			
ZO	Zingiber officinale			
Citrus Or	chard			
CIA	Citrus aurantifolia			
CIL	Citrus x limon Eureka			
CIR	Citrus reticulata			
CIS	Citrus x sinensis			
* PLANTIN	* PLANTING OF THESE SPECIES BY SC			

				LEGEND				
Issu		<b>-</b>	<b></b>		SITE BOUNDARY	<u> </u>	2.4m PALLISADE	COLC
No.	Date	Description	Chkd				FENCE	CONC
А	17/07/2019	Preliminary Issue for Coordination	KC	🕁 RL 00.00	PROPOSED GROUND LEVEL		STORE LOCATION	PLAY
В	28/08/2019	Issue for DA	KC				STORE LOCATION	MULC
				🔶 EX 00.00	EXISTING GROUND			

\_ \_ \_



SYNTHETIC TURF SAND

LEVEL LOW HEIGHT SCREEN FENCE

SEATING

OLOURED ONCRETE AYGROUND JLCH PLAYGROUND SOFTFALL NATURAL TURF









- RETAIN EXISTING HEDGE ALONG BOUNDARY TO SOFTEN BOUNDARY FENCE

Revision No.





1 SYNTHETIC TURF MOUND 1:50 @ A1 PHOTINIA HEDGE TO BE RETAINED TO HELP SOFTEN BOUNDARY LARGE NATIVE CANOPY – TREES (EUCALYPTUS ROBUSTA) PLANTING TO BOUNDARY - EXISTING BOUNDARY FENCE TO BE RETAINED PROPOSED -SANDSTONE **RETAINING WALL** NEW HOPE CAMPUS — CARPARK ▼EX 204.48

+RL 201.80

CARPARK



5% FALL

Issue						
No.	Date	Description	Chkd			
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В	28/08/2019	Issue for DA	KC			

PLANTING



### PRECEDENT IMAGES



SCREEN PLANTING TO BUILDING FACADES



DECORATIVE SCREENS TO BREAKOUTS



FIXED PLAY ELEMENTS



SYNTHETIC TURF MOUND





MIXED PLANTING WITHIN THE LANDSCAPE



MULTI-SURFACE SPACES

Drawing Title LANDSCAPE SECTIONS

Project NEW HOPE CAMPUS

Location 9 QUARRY ROAD, DURAL NSW 2158

Client PACIFIC HILLS CHRISTIAN SCHOOL



# NBRSARCHITECTURE. Landscape



RELOCATION OF EXISTING PLAY EQUIPMENT FROM CURRENT SCHOOL

E: architects@nbrsarchitecture.com W: nbrsarchitecture.com

Date

28/08/2019 Scale As Shown @ A1

Project No. 17369 LDA200 B

Revision No. Sheet No.



### TREES



*CUPANIOPSIS ANACARDIODIES* TUCKEROO



*ELAEOCARPUS RETICULATUS* BLUEBERRY ASH



EUCALYPTUS ROBUSTA SWAMP MAGONGANY



*LAGERSTROEMIA INDICA* DYNAMITE CREPE MYRTLE





ACMENA SMITHII LILLY PILLY



ANGIOZANTHUS FLAVIDA KANGAROO PAW



ASPLENIUM NIDUS **BIRDS NEST FERN** 



*DORYANTHES EXCELSA* GYMEA LILLY

#### **GROUNDCOVERS & CLIMBERS**



*ADJUGA REPTANS* BUGLEHERB



*GAZANIA SP.* GAZANIA



*HARDENBERGIA VIOLACEA* PRUPLE CORAL PEA

# GRASSES



PENNISETUM ALOPECUROIDES SWAMP FOXTAIL

ssue	e		
No.	Date	Description	Chkd
A	17/07/2019	Preliminary Issue for Coordination	KC
В	28/08/2019	Issue for DA	KC



*MAGNOLIA GRANDIFLORA 'LITTLE GEM'* LITTLE GEM MAGNOLIA



*PRUNUS X BLIREANA* BLIREANA PLUM



PYRUS USSIRIENSIS MANCHURIAN PEAR



QUERCUS ILEX EVERGREEN OAK





GARDENIA JASMINOIDES GARDENIA



HEBE 'BLUE GEM' HEBE



JUNIPERUS CONFERTA SHORE JUNIPER



RHAPHIOLEPIS INDICA INDIAN HAWTHORN





*DIANELLA REVOLUTA* BLUE FLAY LILLY

#### CLASSROOM THEME PLANTING



**RED** NANDINA DOMESTICA SACRED BAMBOO

Drawing Title PLANTING PALETTE



**YELLOW** *ALPINIA ZERUMBET 'VARIEGATA'* NATIVE GINGER



**GREEN** PHILODENDRON XANADU XANADU

Project NEW HOPE CAMPUS Location

9 QUARRY ROAD, DURAL NSW 2158

Client PACIFIC HILLS CHRISTIAN SCHOOL

## **NBRSARCHI** TECTURE. Landscape



*SYZYGIUM LUEHMANNII* SMALL LEAFED LILLY PILLY



*WATERHOUSIA FLORIBUNDA* WEEPING LILLY PILLY





*TULBAGHIA VIOLACEA* SOCIETY GARLIC



WESTRINGIA FRUTICOSA COAST ROSEMARY



**PURPLE** *ALTERNANTHERA DENATA* LITTLE RUBY

Landscape Architect



**BLUE** *PHLEBODIUM AUREUM* BLUE STAR FERN

Date Scale

28/08/2019 N/A

Level 3, 4 Glen Street, Milsons Point. NSW 2061 Australia T: 61 2 9922 2344 F: 61 2 9922 1308 E: architects@nbrsarchitecture.com W: nbrsarchitecture.com L: arChitects (1) in said in total and the written permission of NBRS & PARTNERS Pty Ltd constitutes an infringement of the copyright © 2019 ABN 16 002 247 565

Project No.

Revision No. Sheet No 17369 LDA200 B





11 PLAYGROUND MULCH DETAIL Scale: 1:20@A1

Issue No. Date Description Chkd						
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А	17/07/2019	Preliminary Issue for Coordination	кс			
В	28/08/2019	Issue for DA	кс			





1000

-2 STAKES AND HESSIAN TIES TO SUPPORT TREE

AROUND PLANT BASE

EXISTING SUB GRADE

HOLE MIN. 1.5 TIMES POT SIZE

75mm MULCH DISHED



1 CONCRETE EDGE DETAIL Scale: 1:10@A1

150M CONTAINER Scale: 1:20@A1

(5





## - NEW TURF TURF UNDERLAY SOIL MIX AND FERTILISER. REFER SPEC - BREAK UP SUBGRADE TO 150mm \_\_\_\_\_



















Drawing Title

LANDSCAPE DETAILS/ SPEC

Project NEW HOPE CAMPUS

Location 9 QUARRY ROAD, DURAL NSW 2158

Client PACIFIC HILLS CHRISTIAN SCHOOL



# **NBRSARCHIT** TECTURE. Landscape

COMPACTED CRUSHER DUST TO 98% COMPACTED SUBGRADE

