



DOCUMENT/STATUS REGISTER

Issue	Date	Purpose	Written Approved
01	09.04.2021	DRAFT ISSUE	IB
02	06.05.2021	DRAFT ISSUE	IB
03	17.05.2021	SSDA ISSUE	IB
04	21.05.2021	SSDA ISSUE	IB
05	24.05.2021	SSDA ISSUE	IB
06	27.05.2021	SSDA ISSUE	IB
07	08.09.2022	SSDA ISSUE	JH
08	11.10.2022	SSD MOD 1 ISSUE	IB

PROJECT DETAILS

Site Address	Gorman Drive, Googong, NSW, 2620
Site Area	28,118.39 m ²
Land Use & Zoning	R1 General Residential

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Landscape Grading Plan Approved SSD
Landscape Grading Plan SSDA - MOD1
Landscape Planting Plan Approved SSD
Landscape Planting Plan SSDA - MOD1

1.0 Introduction

INTRODUCTION

This SSDA Report accompanies an Environmental Impact Statement (EIS) pursuant to Part 4 of the Environmental Planning and Assessment Act 1979 (EP&A Act) in support of an application for a State Significant Development (SSD-10326042).

The development is for a new primary school located on land bound by Gorman Drive, Aprasia Avenue, Wilkins Way and McPhail Way in Googong.

This report has been prepared to accompany the Mod 1 and addresses the following updates :

- The removal of the grassed mound to the centre of the site
- The relocation of bike parking from back of games court to an area beside the COLA (quantities stay the same)
- Planting changes to the area between the hall and street to consider the removal of an unrequired substation. Additional planting designed in its place
- Gate/fence location to the carpark entry is updated.

The design intent for the landscape remains the same with all other areas of the school remaining as previously designed and documented.

The comparison of the existing approved SSD drawings with the updated landscape plans is based upon the approved drawings located on the Department of Planning and Environment website.

This report addresses the relevant Secretary's Environmental Assessment Requirements (SEARs), namely:

SEARS (SSD-10326042) RESPONSE

Requirements	Taylor Brammer's Response
3. Trees and Landscaping	
<i>Provide:</i>	
<ul style="list-style-type: none"> • <i>Where street trees are affected by the proposed development, an arboricultural impact assessment prepared by a Level 5 (Australian Qualifications Framework) Arborist, which details the number, location and condition of trees to be removed and retained, includes detailed justification for each tree to be removed.</i> 	The site has no significant trees on it some existing tree planting in car park and street trees to be retained.
<ul style="list-style-type: none"> • <i>A detailed site-wide landscape strategy, that:</i> <ul style="list-style-type: none"> ◦ <i>Details the proposed site planting, including location, number and species of plantings, heights of trees at maturity and proposed canopy coverage.</i> ◦ <i>Considers equity and amenity of outdoor play spaces, and integration with built form, security, shade, topography and existing vegetation.</i> ◦ <i>Demonstrates how the proposed development would:</i> <ul style="list-style-type: none"> - <i>Contribute to long term landscape setting in respect of the site and the streetscape.</i> - <i>Mitigate the urban heat island effect and ensure appropriate comfort levels on-site.</i> - <i>Contribute to objectives to increase urban tree canopy cover.</i> 	<ul style="list-style-type: none"> Detailed in the Planting Strategy (page 18-19). A range of outdoor play space is provided Refer Precedent page 15. Outlined in Planting Strategy (page 18-19). Refer to masterplan (page 14) Canopy tree is extensive across the site to 40% cover.
<ul style="list-style-type: none"> • <i>A detailed landscape plan prepared by a suitably qualified person.</i> 	Detailed landscape masterplan is provided that clearly shows the design intent.
<i>Relevant Policies and Guidelines:</i>	
<ul style="list-style-type: none"> • <i>Australian Standard AS4970 Protection of trees on development sites</i> • <i>Draft Greener Places Design Guide (GANSW)</i> • <i>Objective 30 of The Greater Sydney Region Plan - A Metropolis of Three Cities</i> • <i>Technical Guidelines for Urban Green Cover in NSW (Office of Environment and Heritage (OEH), 2015)</i> 	Noted and reviewed

THE PROPOSAL

The proposed development is for construction and operation of a new primary school in Googong that will accommodate up to 700 students.

The proposed development is a Core 35 school and includes:

- A collection of 1-2 storey buildings containing 30 home base units, 3 special education learning units, canteen, hall, library and administrative facilities.
- On-site carpark with 60 spaces and on-street kiss-and-ride facilities.
- Outdoor sports court and play area.
- Integrated landscaping, fencing and signage.

SITE DESCRIPTION

The site is located at Aprasia Avenue, Googong, and is formally described as Lot 3 DP1179941 (refer to Figure 1). The site is irregular in shape and has an area of 28,118.39m².

The site is located within the Queanbeyan-Palerang Regional Council local government area approximately 10km south of the Queanbeyan Central Business District.

The site is bordered by Aprasia Avenue to the north, Gorman Drive to the southwest, Wilkins way to the east/southeast and McPhail way to the west.

Googong North Village Centre, which contains a child care centre, supermarket, cafes and take-away food outlets, is located approximately 100m west of the site across McPhail Way. The site is otherwise surrounded by low density residential development.

Googong is a recently developed town, with the planning beginning in the early 2000s and the first residents taking up residence in 2014.



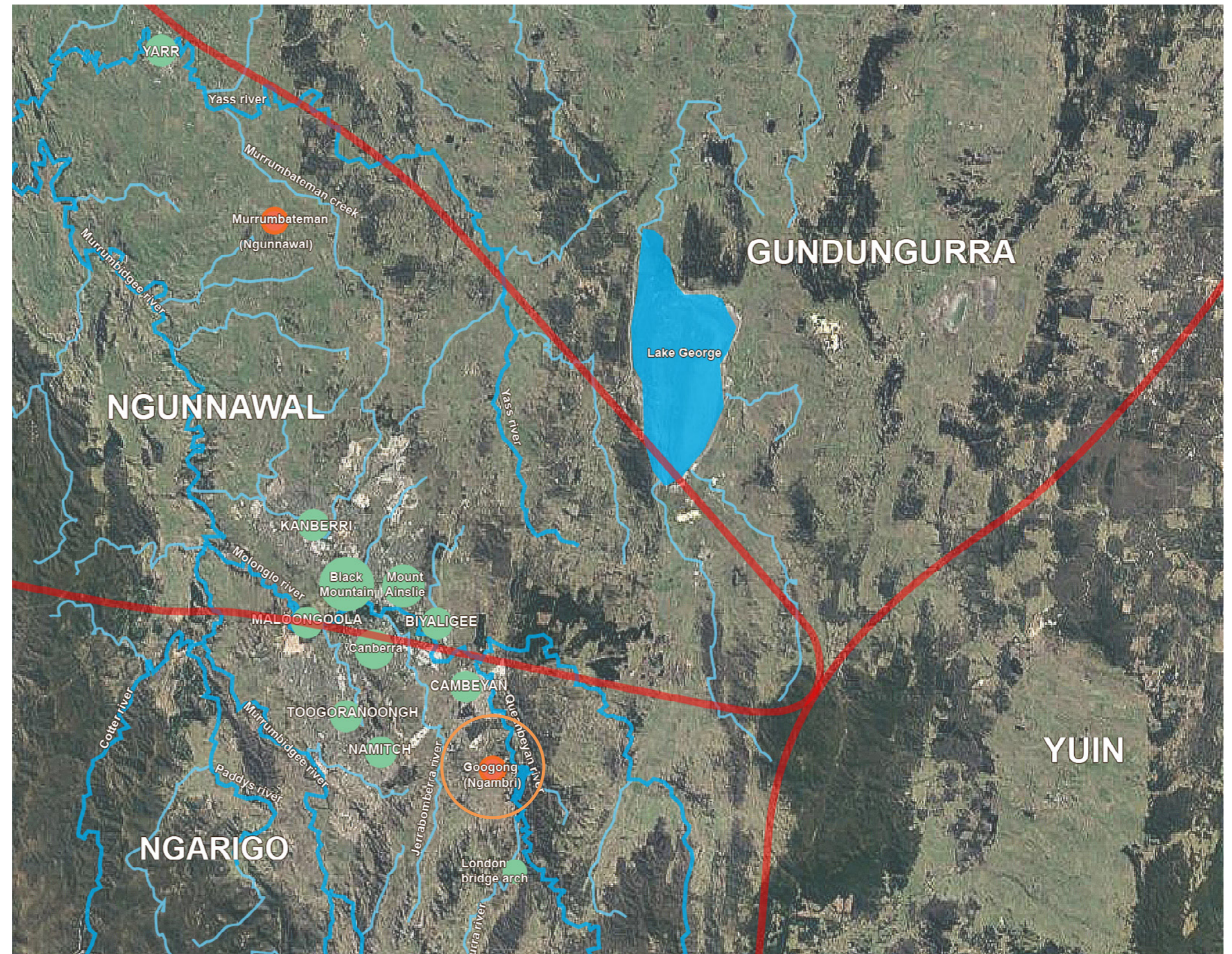
Source: Site aerial photograph (Nearmap)

2.0 The Site

REGIONAL CONTEXT

This map overlays the locations of Murrumbateman and Googong onto the map of Aboriginal Clans as well as the migrating path and settlement points along the Molonglo River and Murrumbateman Creek.






The Ngambri people are the traditional custodians of the land on which the school site is located and situated in the Ngarigo country.



Reference: Understanding the Land through the Eyes of the Ngunnawal People A Natural Resource Management Program for ACT Schools Implementation: Clans Page 2
Aerial Google map 2021

LOCAL CONTEXT

LEGEND

-  THE SITE
-  MAJOR ROAD
-  EXISTING VEGETATION (OFF SITE)
-  EXISTING OPEN SPACE / PARKLAND
-  WATERCOURSE



SITE ANALYSIS

LEGEND

- SITE BOUNDARY
- ROAD
- PATHWAY
- PARK
- RAINGARDEN
- SURROUNDING BUILDINGS
- EXISTING STREET TREES



SITE PHOTOS



KEY PLAN



PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6



PHOTO 7

3.0 Connection to Country



My Country, Ngunnawal Country by Adrian Brown

A recognition of the Ngarigo people and their heritage as the original inhabitants of the land on which the school site is located.

The waterways located near the school site are deeply linked to the Aboriginal history and stories of the area.

In the Ngambri country the Ngarigo people are recognised as the predominant aboriginal clan in this ACT.

The Colours of my Country

- The “My Country, Ngunnawal Country” painted by
- Adrian Brown, Ngunnawal man, 2015, Adrian also made clapsticks painted with the yellow, white, orange and the black charcoal of his country.

Waterways are our pathways

- Ngarigo country is a vast area with a wide variety of terrains and environments. People used natural features such as the stars and rivers and significant landmarks to navigate their way across the land.

Transcript Ngunnawal culture and country: Archaeology from an Aboriginal perspective. audio transcript between Wally Bell, Ngunnawal elder and Allison Byrne, Canberra Archaeological Society 19 April 2017

Understanding the Land through the Eyes of the Ngunnawal People A Natural Resource Management Program for ACT Schools Implementation: Page 3

Moggridge, B. and R. Mihinui, 2010, ‘Guiding principles for Indigenous Cultural and Spiritual Values on Water’, paper prepared for the Joint Steering Committee reviewing the Australian and New Zealand Guidelines for fresh and marine water quality, Canberra.

Life is based on the vegetation patterns and natural environment

- “Our pattern of life is based on the vegetation patterns within our tribal boundary because we used to interact with the natural environment. We learned how different plants and things ripened at different times all over the place. We had to move around as well because we didn’t want to deplete those food sources at certain places, so we just kept moving around. “

Transcript Ngunnawal culture and country: Archaeology from an Aboriginal perspective. audio transcript between Wally Bell, Ngunnawal elder and Allison Byrne, Canberra Archaeological Society 19 April 2017

Water is a source of food

- Country has intrinsic and cultural value. Ngunnawal people have deep cultural interest in conservation, water and fire management.

Act State of the Environment, 2019, Caring for Country: Page 32

Totems

- One of the most visible manifestations of care for country and balancing animal and plant populations was the bestowing of animal totems on individuals and tribes.
- An individual could have an animal such as the kangaroo or grass parrot as their totem. These totems identified a specific relationship and responsibility for care and protection between the owner of the totem and the animal.

Understanding the Land through the Eyes of the Ngunnawal People A Natural Resource Management Program for ACT Schools Implementation: Page 4

Firesticks

- Firesticks were a traditional form of natural resource management, in particular, the diverse uses of firestick farming.
- Firestick farming to control mistletoe infestations and maintaining the relationships between kangaroo and grass parrot populations.

Understanding the Land through the Eyes of the Ngunnawal People A Natural Resource Management Program for ACT Schools Implementation: Page 10

Bogong moth

- Every year bogong moths from the northern areas on New South Wales and southern Queensland migrate south to aestivate in crevices in the rocky ledges and caves of the Tidbinbilla Ranges and Southern Alps.
- The moths are very nutritious and a good source of protein.
- This migration of the moths coincided with the timing of the annual trek of the Ngunnawal people and the neighbouring tribes to the same area.
- The moths were a significant addition to the diet of the gathered tribes.
- We have always been known as the moth people tribes from all over came here to celebrate together and eat bogong moth especially, but not anymore. The bogong numbers are too low - too much city not enough bush too many lights” Jim ‘Boza’ Williams, Ngambri elder 2015.

Ngunnawal Country <https://www.act.gov.au/ngunnawal-country>

Understanding the Land through the Eyes of the Ngunnawal People A Natural Resource Management Program for ACT Schools Implementation: Page 3

London bridge Arch

- Googong also has Aboriginal sites which are viewed by the Ngunnawal people as holding spiritual significance, including London Bridge Arch. Described in 1823 as “a natural bridge of one perfect Saxon arch, under which the water passed”. Over 420 million years ago, sediment and coral remains were deposited on an ocean floor, forming limestone. The ocean receded and water slowly leached through, eroding the limestone until a passage was formed for Burra Creek to pass through.

Googong Foreshore London Bridge Walking Track Brochure produced ACT Government and Parks and conservation services. “a natural bridge of one perfect Saxon arch, under which the water passed” Capation Mark Currie 1825

Brown Snake protector of sacred sites

- Ngunawal peoples’ belief that the brown snake is a protector of Aboriginal sacred sites.

Proposed Aboriginal Place Names for Reserves at Googong Thundestone Report page 1.

Flora and Fauna

- Daisy Yam, wattle seed, fish (Murray Cod and Yellow Belly), yabbies, platypus, water fowl, terrestrial

Act State of the Environment, 2019, Caring for Country: Page 33

Nesting and Resting

- Googong School is centrally placed within the town, which is surrounded by low ranges and hills. The surrounding country is noted to contain remnant species of flora and fauna endemic to the region. The foreshore, located 1.5km east of the site is known to provide a habitat for numerous threatened species such as Pink-tailed Worm-lizard, Hoary Sunray, Pale Pomaderris, Button Wrinklewort, Natural Temperate Grassland of the Southern Tablelands of New South Wales and the Australian Capital Territory White Box-Yellow Box-Blakely’s Red Gum Grassy Woodland and Derived Native Grassland.

Pg 5, Appendix A- Preliminary Ecological Assessment

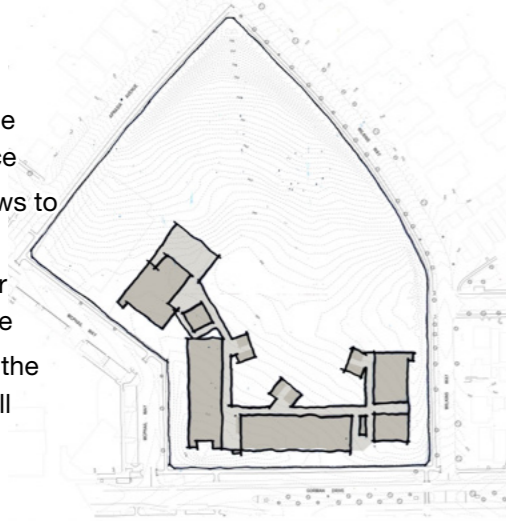
GHD | Report for NSW Department of Education – New public school as Googong SEARS request 12515242 / 29

4.0 Design

LANDSCAPE DESIGN DEVELOPMENT

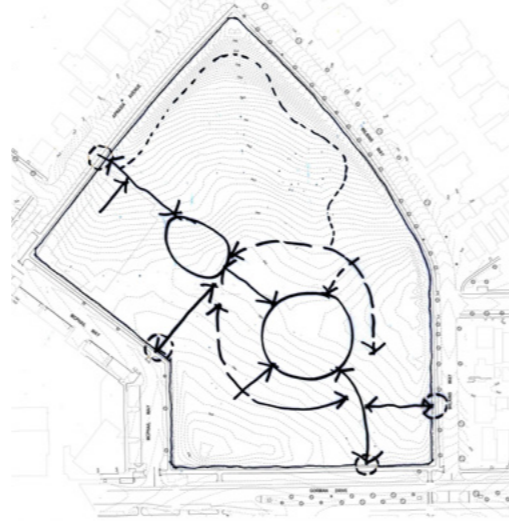
1 BUILT FORM

- Buildings enclosing the central space
- Open to views to the hills
- Setbacks for planted edge
- Maintaining the top of the hill



2 ACCESS - PEDESTRIAN

- All access to AS 1428
- Sight lines
- Clear and legible
- Connection to central space



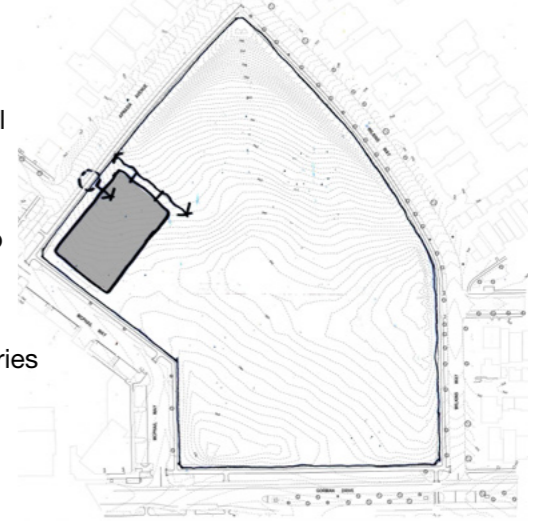
3 ACCESS - BICYCLES

- Separation from other entries
- Adjoins pedestrian accessway



4 ACCESS - VEHICLES

- Location to minimise visual intrusion to residents
- Relationship to Hall/Canteen
- Separation to pedestrian entries



5 PLACES - MEETING

- COLA
- Yarning circles
- Connections



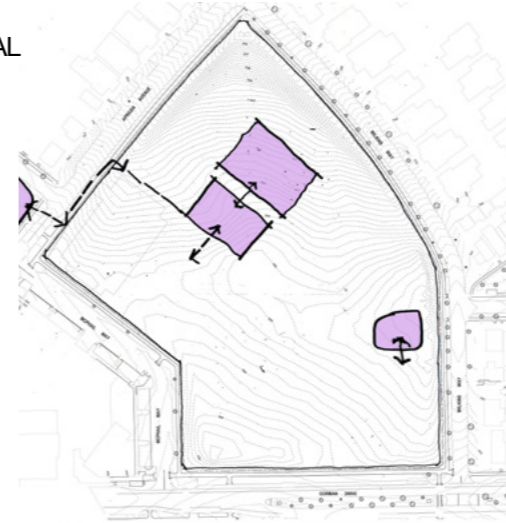
6 PLACES - LEARNING

- Relationship to hills
- Yarning circles
- Shade
- Tree community/ birds
- Growing gardens
- Bush food/ medicine
- Watering holes



7 PLAY - STRUCTURAL

- MUGA
- Playing Fields
- SELU Play
- Adjacent public parks



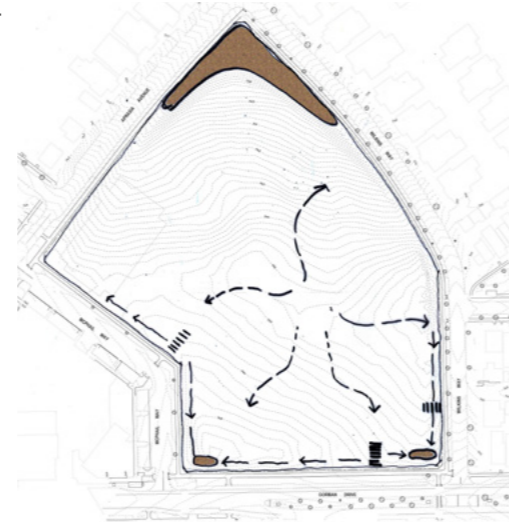
8 PLAY - NATURE

- Endemic forest
- The creek/water

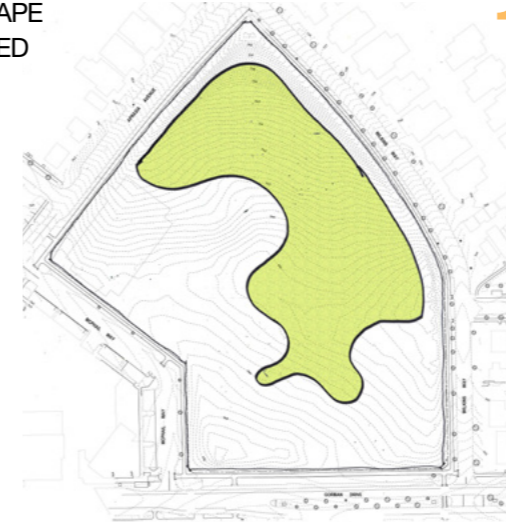


9 LANDSCAPE - DRAINAGE

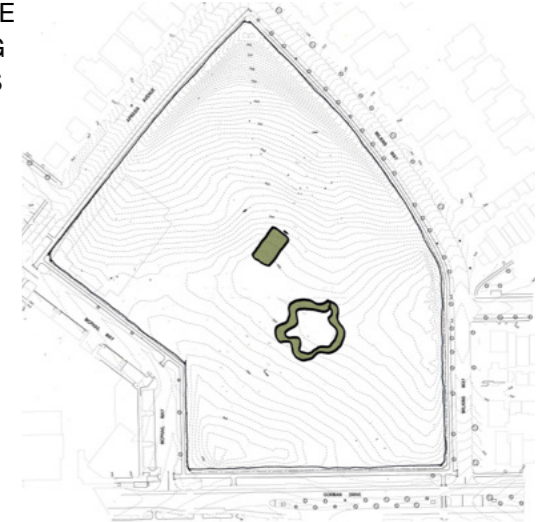
- Creek beds
- Watering holes
- Flood control



10 LANDSCAPE - GRASSED AREAS



11 LANDSCAPE - GROWING GARDENS





REV	BY	DATE	DESCRIPTION
A	BH	11.06.2021	WIP ISSUED FOR INFORMATION
B	BH	17.06.2021	WIP ISSUED FOR INFORMATION
C	BH	21.06.2021	ISSUED FOR DRAFT 50% DETAILED DESIGN
D	BH	06.07.2021	ISSUED FOR INFORMATION
E	BH	09.07.2021	ISSUED FOR 50% DETAILED DESIGN
F	BH	20.07.2021	ISSUED FOR COORDINATION
G	BH	23.07.2021	ISSUED FOR DRAFT 75% DETAILED DESIGN
H	BH	10.08.2021	ISSUED FOR COORDINATION
I	BH	13.08.2021	ISSUED FOR INFORMATION

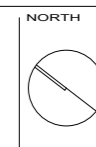
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L	BH	16.09.2021	ISSUED FOR COORDINATION
M	BH	16.09.2021	ISSUED FOR 75% DETAILED DESIGN
N	BH	20.09.2021	REISSUED FOR 75% DETAILED DESIGN

LIST OF CHANGES:	
1.	20.09.2021 Existing trees on Gorman Drive shown to be removed.



DRAWING NAME
LANDSCAPE: SITE PLAN
APPROVED SSD

PROJECT
NEW PRIMARY SCHOOL
IN GOOGONG
GORMAN DRIVE, GOOGONG

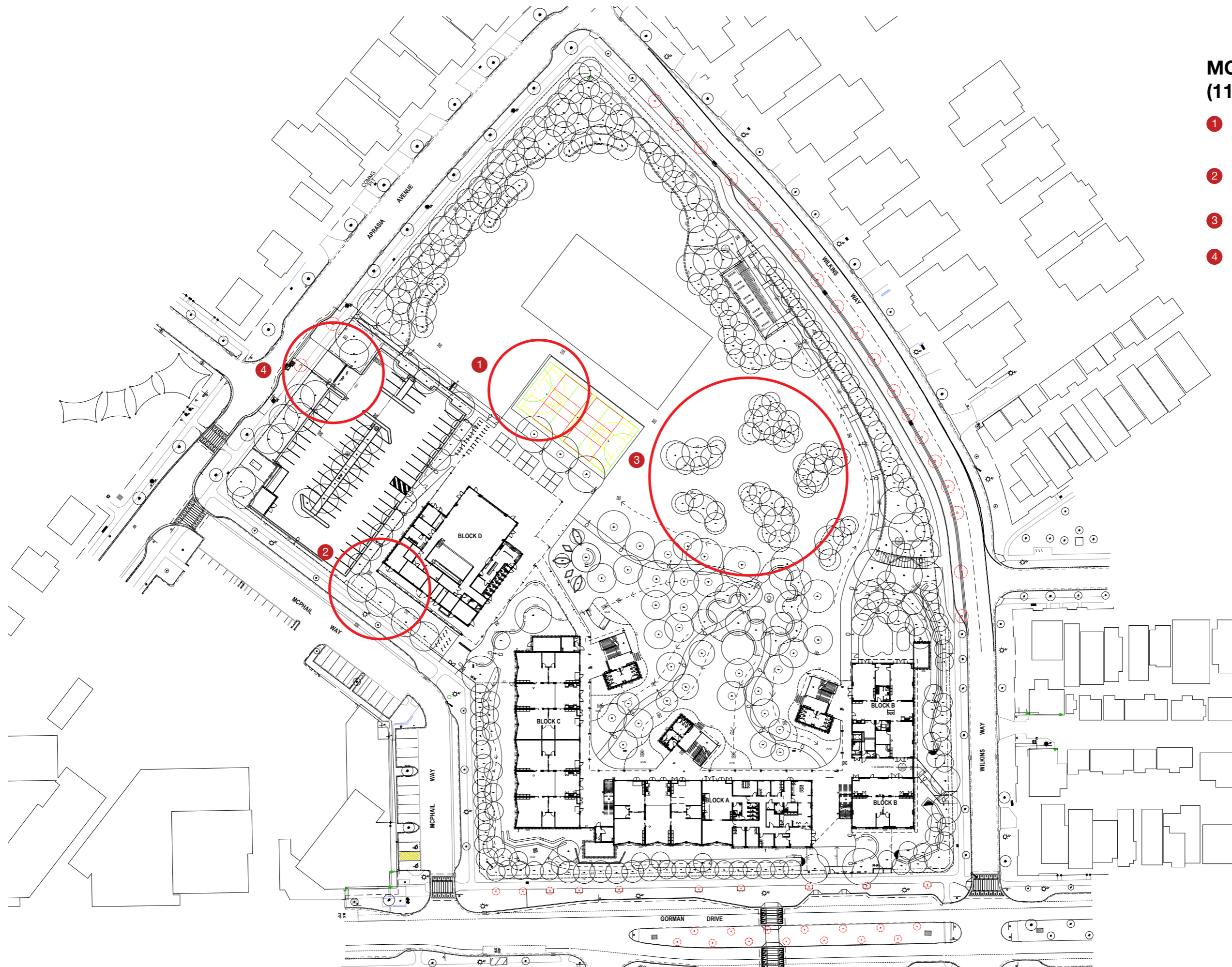


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SEPTEMBER 20 2021

PROJECT	DISCIPLINE	PHASE	SERIES NUMBER	REVISION
GOOG - LA - DD - L100				N

MOD 1 UPDATES (11.10.2022)

- 1 Bike parking relocated, numbers remain the same.
- 2 Fenceline and planting adjusted as substation is no longer required.
- 3 Mound is removed.
- 4 Gate to carpark entry is relocated.



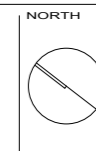
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2	BH	21.09.2022	ISSUED FOR CONSTRUCTION



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DRAWING NAME
**LANDSCAPE: SITE PLAN
SSDA - MOD1**

PROJECT
**NEW PRIMARY SCHOOL
IN GOOGONG
GORMAN DRIVE, GOOGONG**



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SCALE 1 : 500 @ A1					
21 SEPTEMBER 2022					
PROJECT	DISCIPLINE	PHASE	SERIES NUMBER	REVISION	
GOOG - LA - CD - L100				2	



AMENDMENTS

REV	BY	DATE	DESCRIPTION
A	BH	21.06.2021	ISSUED FOR DRAFT 50% DETAILED DESIGN
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C	BH	09.07.2021	ISSUED FOR 50% DETAILED DESIGN
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E	BH	23.07.2021	ISSUED FOR DRAFT 75% DETAILED DESIGN
F	BH	10.08.2021	ISSUED FOR COORDINATION
G	BH	01.09.2021	ISSUED FOR INFORMATION
H	BH	15.09.2021	ISSUED FOR COORDINATION
I	BH	16.09.2021	ISSUED FOR 75% DETAILED DESIGN

LIST OF CHANGES:

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AMENDMENTS

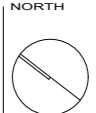
REV	BY	DATE	DESCRIPTION
J	BH	20.09.2021	REISSUED FOR 75% DETAILED DESIGN



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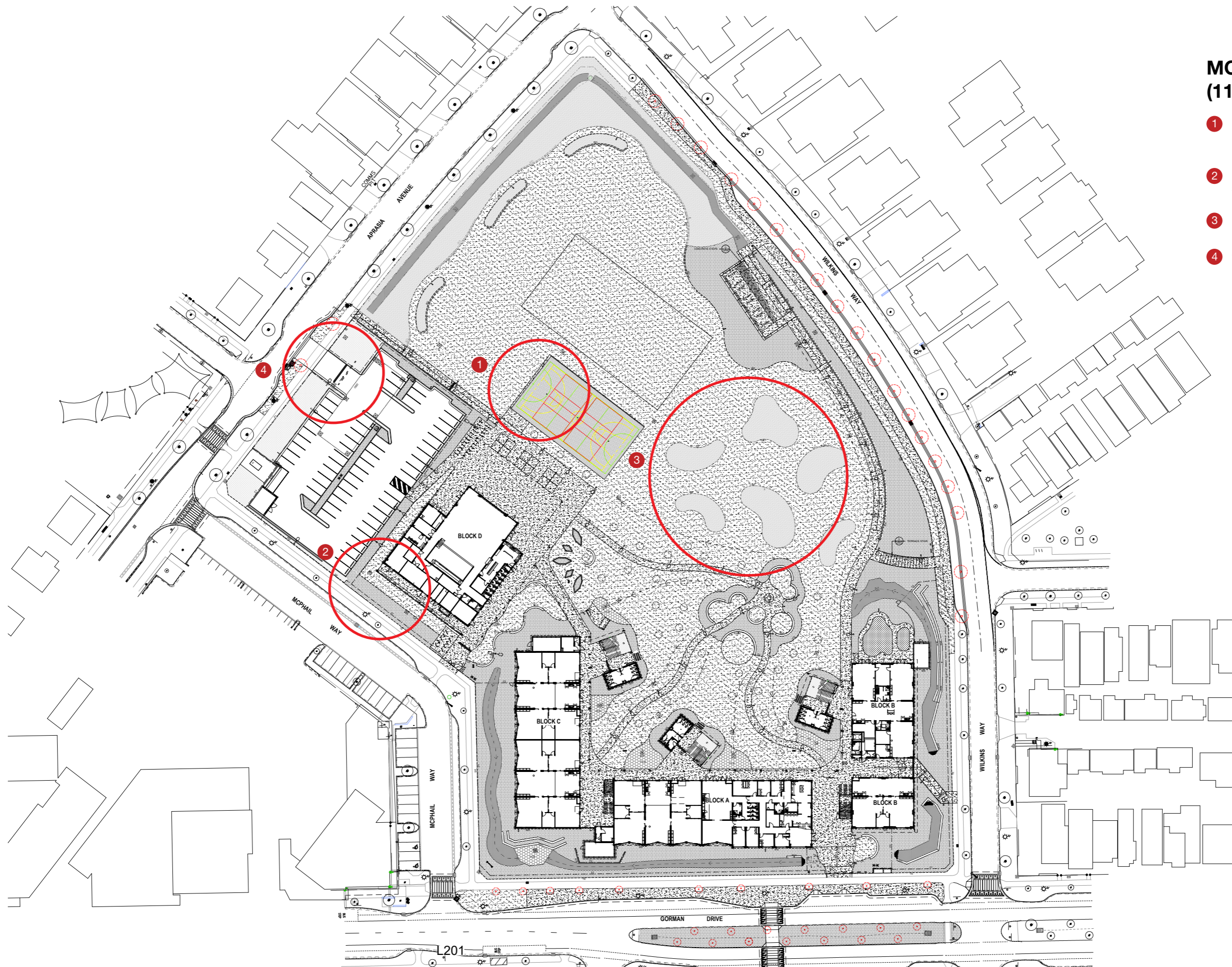
DRAWING NAME
LANDSCAPE: SITE FINISHES PLAN
APPROVED SSD

PROJECT
NEW PRIMARY SCHOOL
IN GOOGONG
GORMAN DRIVE, GOOGONG

NORTH

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 SCALE 1 : 500 @ A1
 SEPTEMBER 20 2021
 PROJECT DISCIPLINE PHASE SERIES NUMBER REVISION
GOOG - LA - DD - L200 J

MOD 1 UPDATES (11.10.2022)

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SSDA - MOD1

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21 SEPTEMBER 2022
PROJECT DISCIPLINE PHASE SERIES NUMBER REVISION
GOOG - LA - CD - L200 3



**Planning,
Industry &
Environment**

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No SSD-10326042 Signed: TVD

Granted on the 21 December 2021 Sheet No 19 of 36

L302

L304

L303

L301

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A	BH	21.06.2021	ISSUED FOR DRAFT 50% DETAILED DESIGN
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K	BH	20.09.2021	REISSUED FOR 75% DETAILED DESIGN



DRAWING NAME
LANDSCAPE: SITE GRADING PLAN
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PROJECT
NEW PRIMARY SCHOOL
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GORMAN DRIVE, GOOGONG

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NORTH

5000 10000 15000 20000 25000 50000

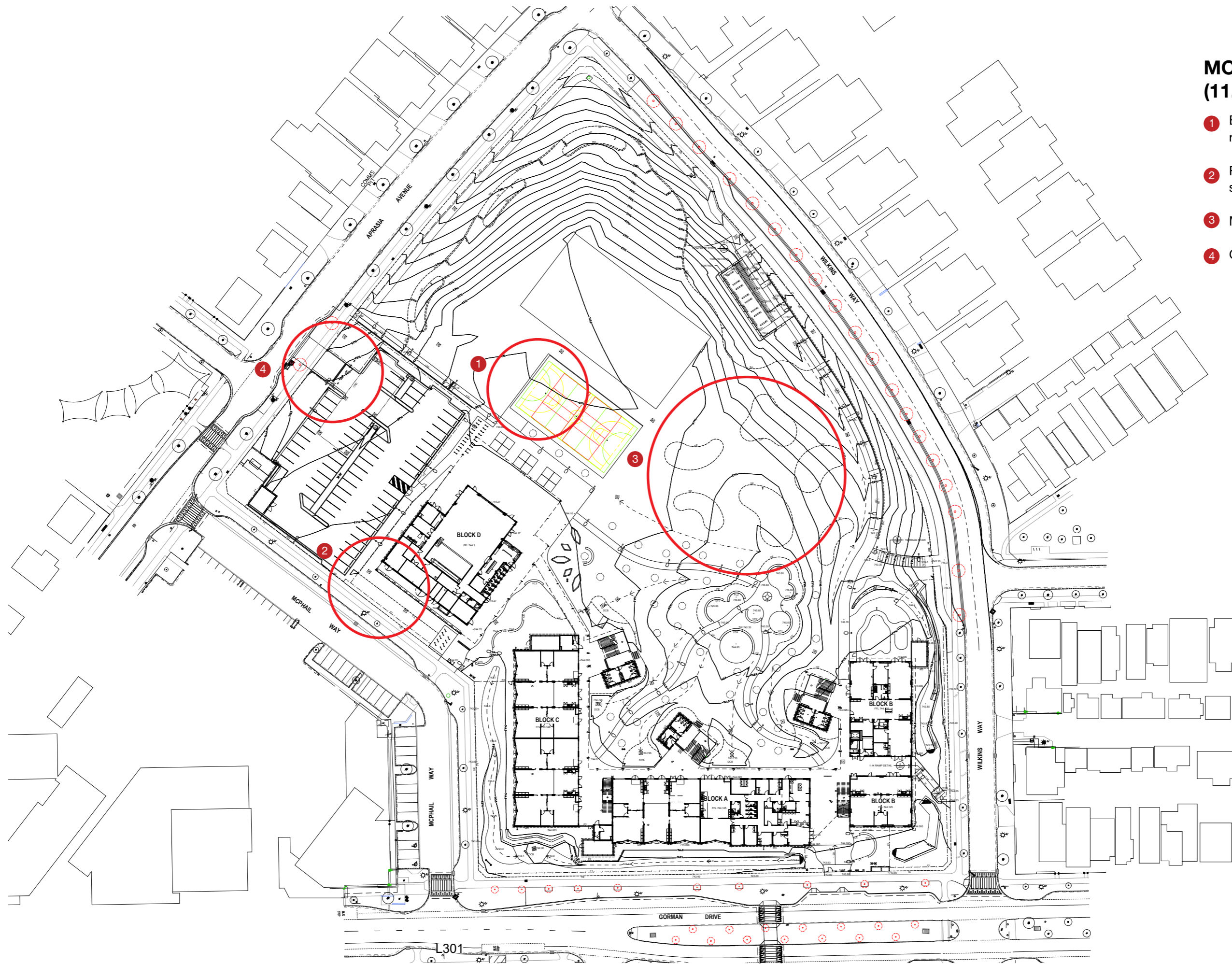
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PROJECT	DISCIPLINE	PHASE	SERIES NUMBER	REVISION
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SSDA - MOD1

PROJECT
NEW PRIMARY SCHOOL
IN GOOGONG
GORMAN DRIVE, GOOGONG

NORTH

5000 10000 15000 20000 25000 50000
SCALE 1 : 500 @ A1

21 SEPTEMBER 2022

PROJECT	DISCIPLINE	PHASE	SERIES NUMBER	REVISION
GOOG - LA - CD - L300				2



SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	SPACING	HEIGHT X WIDTH	NATIVE SPECIES	NGUNNAWAL SIGNIFICANT VALUE
ENDANGERED ECOLOGICAL COMMUNITY								
TREES								
EAL	<i>Eucalyptus albens</i>	White Box	23	300 Pot	As shown	25 x 20m	Y	
EME	<i>Eucalyptus melliodora</i>	Yellow Box	23	300 Pot	As shown	15 x 8m	Y	Used of making shields, coolam ons and as a marker tree for pathway.
EBR	<i>Eucalyptus bridgesiana</i>	Apple box	23	300 Pot	As shown	20 x 15m	Y	Used of making shields, coolam ons and heating water.
EOO	<i>Eucalyptus gonicalyx</i>	Long-leaved box	23	300 Pot	As shown	20 x 15m	Y	Used of making shields, coolam ons.
EMA	<i>Eucalyptus macrorhyncha</i>	Red stringbark	23	300 Pot	As shown	15 x 10m	Y	Used of making shelters and rope.
EPO	<i>Eucalyptus polyanthemos</i>	Red box	23	300 Pot	As shown	20 x 15m	Y	Used of making shields, coolam ons and as a marker tree for pathway.
ERU	<i>Eucalyptus rubida</i>	Candlebark	23	300 Pot	As shown	18 x 15m	Y	Used of making shields, coolam ons and as a marker tree for pathway.
EBL	<i>Eucalyptus blakelyi</i>	Blakelys Red Gum	23	300 Pot	As shown	20 x 15m	Y	Used of making shields, coolam ons and canoes and as a marker tree for pathway.
UNDERSTOREY								
RBI	<i>Rytidosperma bipartita</i>	Leafy wallaby grass	2200	100 Pot	4/m ²	0.15x0.15m	Y	Used of making strings and fishing nets.
RER	<i>Rytidosperma erianthum</i>	Hill Wallaby Grass	2200	100 Pot	4/m ²	0.2x0.2m	Y	Used of making strings and fishing nets.
RPA	<i>Rytidosperma pallidum</i>	Red-anther wallaby grass	2200	100 Pot	4/m ²	0.7x0.7m	Y	Used of making strings and fishing nets.
TTR	<i>Themeda triandra</i>	kangaroo grass	2200	100 Pot	4/m ²	0.4x0.3m	Y	Used of making strings and fishing nets.
PSI	<i>Poa sieberiana</i>	Blue tussock grass	2200	100 Pot	4/m ²	0.3x0.3m	Y	
ASC	<i>Austrostipa scabra</i>	Speargrass	2200	100 Pot	4/m ²	0.3x0.3m	Y	
ARA	<i>Austrostipa ramosissima</i>	Bamboo Grass	2200	100 Pot	4/m ²	0.3x0.3m	Y	
NATIVE SPECIES								
NATIVE TREES								
ALI	<i>Allocasuarina littoralis</i>	Black sheoak	17	300 Pot	As shown	12 x 4m	Y	Used of making Boomerang and axe handle and childrens toys. Find this tree and stay when get lost.
MBR	<i>Melaleuca bracteata</i>	Black tea-tree	29	300 Pot	As shown	12 x 8m	Y	
AVE	<i>Allocasuarina verticillata</i>	Droping she-oak	17	300 Pot	As shown	6 x 4m	Y	Used of making Boomerang and axe handle and childrens toys. Find this tree and stay when get lost.
CHA	<i>Callistemon harknessii</i>	Bottlebrush	17	300 Pot	As shown	6 x 3m	Y	Used as paint brushes and making sweet drinks.
SMALL TREES								
MER	<i>Melaleuca ericifolia</i>	Swamp paperbark	17	300 Pot	As shown	4 x 3m	Y	Used for painting, blankets and roofing for shelters. Leaves and flowers used for medicine and making sweet drinks.
CSA	<i>Callistemon salignus</i>	Willow bottlebrush	17	300 Pot	As shown	4 x 3m	Y	Used as paint brushes and making sweet drinks.
SMALL SHRUBS (1-2m)								
CVC	<i>Callistemon viminalis 'Captain Cook'</i>	Bottlebrush	268	150 Pot	2/m ²	1.5 x 1.5m	y	Used as paint brushes and making sweet drinks.
GLA	<i>Grevillea lanigera</i>	Woolly grevillea	268	150 Pot	2/m ²	1.5 x 1.5m	y	Used for making sweet drinks.
CTE	<i>Calytrix tetragona</i>	Fringe Myrtle	268	150 Pot	2/m ²	1.5 x 1m	y	Used for wind breaks and shade.
SMALL SHRUBS (TO 1m)								
CWA	<i>Callistemon White Anzac'</i>	Bottlebrushes	296	150 Pot	2/m ²	1 x 3m	y	
CLJ	<i>Callistemon Little John'</i>	Bottlebrushes	296	150 Pot	2/m ²	1 x 1m	y	
COB	<i>Cornea 'Dusky Belts'</i>	Native Fuchsia	296	150 Pot	2/m ²	0.5 x 0.7m	y	
CRE	<i>Cornea reflexa</i>	Native fuchsia	296	150 Pot	2/m ²	1 x 1m	y	Used for wind breaks and shade.
CEX	<i>Crocea exalata</i>	small crocea	296	150 Pot	2/m ²	0.7 x 0.7m	y	Used for wind breaks and fragrant flowers.
ANA	<i>Allocasuarina nana</i>	Dwarf she-oak	296	150 Pot	2/m ²	1 x 1.5m	y	Leaves and young cones are used as food.
GROUNDCOVER								
GAU	<i>Grevillea australis</i>	Southern grevillea	370	150 Pot	2/m ²	0.2 x 0.4m	y	Used of making sweet drinks.
MPA	<i>Myoporum parvifolium</i>	Creeping Bobbielia	370	100 Pot	2/m ²	0.1 x 2m	y	
VHE	<i>Viola hederacea</i>	Australian Violet	370	100 Pot	2/m ²	0.2 x 0.2m	y	Flowers are used as food.
CGC	<i>Casuarina glauca 'cousin it'</i>	Sheoak	370	100 Pot	2/m ²	0.1 x 1m	y	
GUJ	<i>Grevillea juniperina</i>	Juniper violet	370	100 Pot	2/m ²	0.3 x 1.5m	y	Used of making sweet drinks.
GRASSES								
JAU	<i>Juncus australis</i>	Austral rush	1520	100 Pot	4/m ²	1 x 1m	y	Used of making baskets and fishing traps.
JUS	<i>Juncus ustulatus</i>	Common rush	1520	100 Pot	4/m ²	1 x 1m	y	
CAP	<i>Carex appressa</i>	Tall sedge	1520	100 Pot	4/m ²	1 x 1m	y	
CLIMBERS								
HVI	<i>Hardenbergia violacea</i>	Happy Wanderer	12	200 Pot	As shown		y	Leaves are used as tea. Vines were used as rope.
BSC	<i>Billardia scandens</i>	Apple Berry	12	200 Pot	As shown		y	Fruits are used as food.
EXOTIC TREES								
LSP	<i>Liquidambar styraciflua 'Palo Alto'</i>	Palo Alto sweet gum	9	400LT	As shown	15 x 12m		
FAR	<i>Fraxinus angustifolia 'Raywood'</i>	Giant Ash	8	400LT	As shown	15 x 15m		
PEM	<i>Pistacia sinensis 'male form'</i>	Chinese pistachio	8	400LT	As shown	10 x 6m		
PCC	<i>Pyrus calleryana 'chanticlear'</i>	Chanticlear Pear	8	400LT	As shown	11 x 6m		
PCA	<i>Pyrus calleryana 'capita'</i>	Ornamental pear	8	400LT	As shown	11 x 4m		
ARO	<i>Acer rubrum 'October Glory'</i>	Lipstick Maple - October Glory	8	400LT	As shown	9 x 6m		
ZSG	<i>Zelkova serata 'green vase'</i>	Green Vase zelkova	8	400LT	As shown	14 x 10m		
BUSHFOOD								
FOOD TREES								
PAN	<i>Pitoposporum Angustifolium</i>	Gumby Gumby	3	200 Pot	As shown	6 x 4m		
SHRUB								
RSP	<i>Rhagodia spinescens</i>	Salt Bush	3	200 Pot	2/m ²	0.5M X 1M		
GRASSES/GROUNDCOVERS								
DLO	<i>Dianella Longifolia</i>	blueberry lily	10	150 Pot	2/m ²	1.2 x 1m		
LLO	<i>Lomandra longifolia</i>	Matt Rush	11	150 Pot	2/m ²	0.5 x 1m	y	Used as sweet, starchymorsel and high protein food.
MLA	<i>Microseris lanceolata</i>	Murong Yam Daisy	12	150 Pot	2/m ²	0.3m x 0.3m	y	
DCA	<i>Dianella caerulea</i>	Paroo Lily	13	150 Pot	2/m ²	0.5m x 1m		
ELA	<i>Eustephus latifolius</i>	Wombat Berry	14	150 Pot	2/m ²	0.5M X 0.5M		
TTE	<i>Tetragonia tetragonioides</i>	Native Spinach	15	150 Pot	2/m ²	0.2M X 1M		
CLIMBERS								
SAU	<i>Smilax australis</i>	Lawyer Vine	2	150 Pot	As shown	to 8m		
MEDICINE TREES								
MLI	<i>Melaleuca linarilifolia</i>	Snow-in-summer	1	300 Pot	As shown	8 x 7m	Y	Used to treat coughs, colds, wounds, sore throats and skin ailments.
SHRUB								
DVP	<i>Dodonaea viscosa 'purpurea'</i>	Sticky hop bush	5	150 Pot	2/m ²	3 x 2m	y	Used to relieve toothache
GRASSES/GROUNDCOVERS								
DRE	<i>Dianella revoluta</i>	blueberry lily	3	150 Pot	2/m ²	0.6m x 1.5m	y	Used as tea ingredient and to remedy colds and headaches.
CLIMBERS								
DAM	<i>Deeringia amaranthoides</i>	Deeringia	2	150 Pot	As shown	to 4m		
SELU GARDEN SHRUB								
CCI	<i>Callistemon citrinus</i>	crimson bottlebrush	40	200 Pot	4/m ²	0.9 x 0.9m		
CUN	<i>Chamaelucium uncinatum</i>	Geraldton Wax	40	200 Pot	4/m ²	2 x 2m		
HGI	<i>Helianthus giganteus</i>	giant sunflower	40	200 Pot	4/m ²	3 x 1.2m		
LAN	<i>lavender angustifolia</i>	English lavender	40	200 Pot	4/m ²	0.6 x 0.3m		
SOF	<i>Salvia officinalis</i>	common sage	40	200 Pot	4/m ²	0.8 x 1m		
SRO	<i>Salvia rosmarinus</i>	rosemary	40	200 Pot	4/m ²	0.6 x 0.6m		
SBY	<i>Stachys byzantina</i>	lamb's-ear	40	200 Pot	4/m ²	0.6 x 0.9m		
GRASSES/GROUNDCOVERS								
CSE	<i>Cenchrus setaceus</i>	crims on fountaingrass	64	150 Pot	4/m ²	0.9 x 0.9m		
STE	<i>Sempervivum tectorum</i>	Hens and chicks	64	150 Pot	4/m ²	0.15 x 0.3 m		
TCI	<i>Thymus citriodorus</i>	lemon thyme	64	150 Pot	4/m ²	0.15 x 0.3 m		

- LIST OF CHANGES:**
 1. 20.09.2021 Existing trees on Gorman Drive shown to be removed.

REV	BY	DATE	DESCRIPTION
A	BH	21.06.2021	ISSUED FOR DRAFT 50% DETAILED DESIGN
B	BH	09.07.2021	ISSUED FOR 50% DETAILED DESIGN
C	BH	23.07.2021	ISSUED FOR DRAFT 75% DETAILED DESIGN
D	BH	16.09.2021	ISSUED FOR 75% DETAILED DESIGN
E	BH	20.09.2021	ISSUED FOR 75% DETAILED DESIGN

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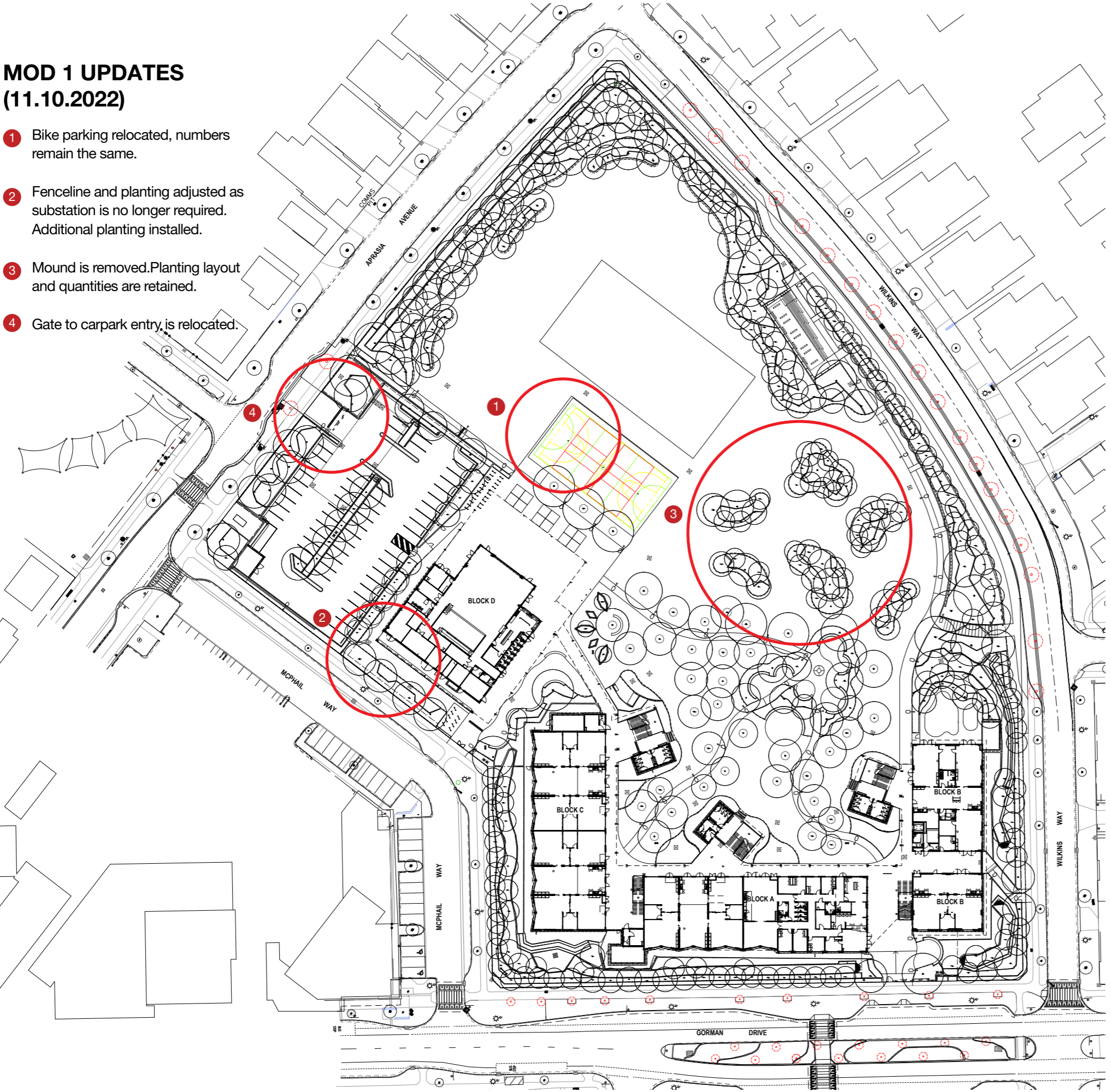
LANDSCAPE: SITE PLANTING PLAN
APPROVED SSD

PROJECT
NEW PRIMARY SCHOOL
IN GOOGONG
GORMAN DRIVE, GOOGONG

NORTH
 5000 10000 15000 20000 25000 50000
SCALE 1 : 500 @ A1
SEPTEMBER 20 2021
 PROJECT DISCIPLINE PHASE SERIES NUMBER REVISION
GOOG - LA - DD - L400 E

MOD 1 UPDATES (11.10.2022)

- 1 Bike parking relocated, numbers remain the same.
- 2 Fenceline and planting adjusted as substation is no longer required. Additional planting installed.
- 3 Mound is removed. Planting layout and quantities are retained.
- 4 Gate to carpark entry is relocated.



PLANT SCHEDULE									
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	SPACING	HEIGHT	NATIVE SPECIES	NGUNNAWAL SIGNIFICANT VALUE	
ENDANGERED ECOLOGICAL COMMUNITY									
TREES									
EAL	<i>Eucalyptus albens</i>	White Box	23	300 Pot	As shown	25 x 20m	Y		
EME	<i>Eucalyptus melliodora</i>	Yellow Box	23	300 Pot	As shown	15 x 8m	Y	Used of making shields, coolamons and as a marker tree for pathway.	
EER	<i>Eucalyptus bridgeriana</i>	Apple box	23	300 Pot	As shown	20 x 15m	Y	Used of making shields, coolamons and heating water.	
EOO	<i>Eucalyptus gonocalyx</i>	Long-leaved box	23	300 Pot	As shown	20 x 15m	Y	Used of making shields, coolamons.	
EMA	<i>Eucalyptus macrotycha</i>	Red stringbark	23	300 Pot	As shown	15 x 10m	Y	Used of making shields and rope.	
EPO	<i>Eucalyptus polyanthemos</i>	Red box	23	300 Pot	As shown	20 x 15m	Y	Used of making shields, coolamons and as a marker tree for pathway.	
ERU	<i>Eucalyptus rubida</i>	Candlebark	23	300 Pot	As shown	18 x 15m	Y	Used of making shields, coolamons and as a marker tree for pathway.	
EBL	<i>Eucalyptus blakelyi</i>	Blakely's Red Gum	23	300 Pot	As shown	20 x 15m	Y	Used of making shields, coolamons and canoes and as a marker tree for pathway.	
UNDERSTORY									
RBI	<i>Rytidosperma bipartita</i>	Leafy wallabygrass	2200	100 Pot	4/m ²	0.15x0.15m	Y	Used of making stings and fishing nets.	
RER	<i>Rytidosperma entanthum</i>	Hill Wallaby Grass	2200	100 Pot	4/m ²	0.2x0.2m	Y	Used of making stings and fishing nets.	
RPA	<i>Rytidosperma pallidum</i>	Red-anther wallaby grass	2200	100 Pot	4/m ²	0.7x0.7m	Y	Used of making stings and fishing nets.	
TTR	<i>Themeda triandra</i>	kangaroo grass	2200	100 Pot	4/m ²	0.4x0.3m	Y	Used of making stings and fishing nets.	
PSI	<i>Poa sieberiana</i>	Blue tussock grass	2200	100 Pot	4/m ²	0.3x0.3m	Y		
ASC	<i>Austroalpa scabra</i>	Speargrass	2200	100 Pot	4/m ²	0.3x0.3m	Y		
ARA	<i>Austroalpa ramosissima</i>	Bamboo Grass	2200	100 Pot	4/m ²	0.3x0.3m	Y		
NATIVE SPECIES									
NATIVE TREES									
ALI	<i>Allocasuarina littoralis</i>	Black sheoak	17	300 Pot	As shown	12 x 4m	Y	Used of making Boomerang and axe handle and childrens toys. Find this tree and stay when get lost.	
MBR	<i>Melaleuca bracteata</i>	Black tea-tree	26	300 Pot	As shown	12 x 8m	Y		
AVE	<i>Allocasuarina verticillata</i>	Drooping she-oak	17	300 Pot	As shown	6 x 4m	Y	Used of making Boomerang and axe handle and childrens toys. Find this tree and stay when get lost.	
CHA	<i>Callistemon harknessii</i>	Bottlebrush	17	300 Pot	As shown	6 x 3m	Y	Used as paint brushes and making sweet drinks.	
SMALL TREES									
MER	<i>Melaleuca ericifolia</i>	Swamp paperbark	17	300 Pot	As shown	4 x 3m	Y	Used for painting, blankets and roofing for shelters. Leaves and flowers used for medicine and making sweet drinks.	
CSA	<i>Callistemon salignus</i>	Willow bottlebrush	17	300 Pot	As shown	4 x 3m	Y	Used as paint brushes and making sweet drinks.	
SMALL SHRUBS(1-2m)									
CVC	<i>Callistemon viminalis 'Captain Cook'</i>	Bottlebrush	268	150 Pot	2/m ²	1.5 x 1.5m	y	Used as paint brushes and making sweet drinks.	
GLA	<i>Grevillea lanigera</i>	Woollygreville	268	150 Pot	2/m ²	1.5 x 1.5m	y	Used for making sweet drinks.	
CTE	<i>Calytrix tetragona</i>	Fringe Myrtle	268	150 Pot	2/m ²	1.5 x 1m	y	Used for wind breaks and shade.	
SMALL SHRUBS(TO 1m)									
CWA	<i>Callistemon 'White Anzac'</i>	Bottlebrushes	296	150 Pot	2/m ²	1 x 3m	y		
CLJ	<i>Callistemon 'Little John'</i>	Bottlebrushes	296	150 Pot	2/m ²	1 x 1m	y		
CDB	<i>Cornea 'Dusky Bell'</i>	Native Fuchsia	296	150 Pot	2/m ²	0.5 x 0.7m	y		
CRE	<i>Cornea reflexa</i>	Native Fuchsia	296	150 Pot	2/m ²	1 x 1m	y	Used for wind breaks and shade.	
CEX	<i>Cornea exaltata</i>	small cornea	296	150 Pot	2/m ²	0.7 x 0.7m	y	Used for wind breaks and fragrant flowers.	
ANA	<i>Allocasuarina nana</i>	Dwarf she-oak	296	150 Pot	2/m ²	1 x 1.5m	y	Leaves and young cones are used as food.	
GROUNDCOVER									
GRJ	<i>Grevillea australis</i>	Southern grevillea	370	150 Pot	2/m ²	0.2 x 0.4m	y	Used of making sweet drinks.	
MYC	<i>Myoporum parvifolium</i>	Creeeping Boobialla	370	100 Pot	2/m ²	0.1 x 2m	y		
WIE	<i>Viola hederacea</i>	Australian Violet	370	100 Pot	2/m ²	0.2 x 0.2m	y	Flowers are used as food.	
CGC	<i>Casuarina glauca 'cousin it'</i>	Sheoak	370	100 Pot	2/m ²	0.1 x 1m	y		
GRJ	<i>Grevillea juniperina</i>	Juniper leaf	370	100 Pot	2/m ²	0.3 x 1.5m	y	Used of making sweet drinks.	
GRASSES									
JAU	<i>Juncus australis</i>	Austral rush	1520	100 Pot	4/m ²	1 x 1m	y	Used of making baskets and fishing traps.	
JUS	<i>Juncus ustulatus</i>	Common rush	1520	100 Pot	4/m ²	1 x 1m	y		
CAP	<i>Carex appressa</i>	Tall sedge	1520	100 Pot	4/m ²	1 x 1m	y		
CLIMBERS									
HVI	<i>Hardenbergia violacea</i>	Happy Wandemir	12	200 Pot	As shown		y	Leaves are used as tea. Vines were used as rope.	
BSC	<i>Balanites scandens</i>	Apple Berry	12	200 Pot	As shown		y	Fruits are used as food.	
ESOTIC TREES									
LSP	<i>Liquidambar styraciflua 'Palo Alto'</i>	Palo Alto sweet gum	9	400LT	As shown	15 x 12m			
FAR	<i>Fraxinus angustifolia 'Raywood'</i>	Claret Ash	8	400LT	As shown	15 x 15m			
PSM	<i>Pistacia sinensis 'male form'</i>	Chinese pistachio	8	400LT	As shown	10 x 6m			
PCC	<i>Pyrus calleryana 'chanticleer'</i>	Chanticleer Pear	8	400LT	As shown	11 x 6m			
PCA	<i>Pyrus calleryana 'capita'</i>	Ornamental pear	8	400LT	As shown	11 x 4m			
ARO	<i>Acer rubrum 'October Glory'</i>	Lipsick Maple - October Glory	8	400LT	As shown	9 x 5m			
ZSG	<i>Zelkova serrata 'green vase'</i>	Green Vase zelkova	8	400LT	As shown	14 x 10m			
BUSHFOOD									
FOOD TREES									
PAH	<i>Pittosporum angustifolium</i>	Gumby Gumby	3	200 Pot	As shown	6 x 4m			
SHRUB									
RSP	<i>Rhagodia spinosa</i>	Salt Bush	3	200 Pot	2/m ²	0.5MX 1M			
GRASSES/GROUNDCOVERS									
DLO	<i>Dianella longifolia</i>	blueberrylily	10	150 Pot	2/m ²	1.2 x 1m			
LLO	<i>Lomandra longifolia</i>	Matt Rush	11	150 Pot	2/m ²	0.5 x 1m	y	Used as sweet, starchy morsel and high protein food.	
MLA	<i>Microseris lanceolata</i>	Mumong Yam Daisy	12	150 Pot	2/m ²	0.3m x 0.3m	y		
DCA	<i>Dianella caerulea</i>	Paroo Lily	13	150 Pot	2/m ²	0.5m x 1m			
ELA	<i>Eustephia laevis</i>	Wombat Berry	14	150 Pot	2/m ²	0.5M X 0.5M			
TTE	<i>Tetragonia tetragonioides</i>	Native Spinach	15	150 Pot	2/m ²	0.2MX 1M			
CLIMBERS									
SAJ	<i>Smilax australis</i>	Lawyer Vine	2	150 Pot	As shown	to 8m			
MEDICINE TREES									
MLI	<i>Melaleuca linariifolia</i>	Snow-in-summer	1	300 Pot	As shown	8 x 7m	Y	Used to treat coughs, colds, wounds, sore throats and skin ailments.	
SHRUB									
DVP	<i>Dodonaea viscosa 'purpurea'</i>	Stickyhop bush	5	150 Pot	2/m ²	3 x 2m	y	Used to relieve toothache	
GRASSES/GROUNDCOVERS									
DRE	<i>Dianella revoluta</i>	blueberrylily	3	150 Pot	2/m ²	0.6m x 1.5m	y	Used as tea ingredient and to remedy colds and headaches.	
CLIMBERS									
DAM	<i>Deeringia amarantoides</i>	Deeringia	2	150 Pot	As shown	to 4m			
SELU GARDEN									
SHRUB									
CCI	<i>Callistemon citrinus</i>	crimson bottlebrush	40	200 Pot	4/m ²	0.9 x 0.9m			
CUN	<i>Chamaelirium uncinatum</i>	Gesakdon Wax	40	200 Pot	4/m ²	2 x 2m			
HGI	<i>Helianthus giganteus</i>	giant sunflower	40	200 Pot	4/m ²	3 x 1.2m			
LAN	<i>lavender angustifolia</i>	English lavender	40	200 Pot	4/m ²	0.6 x 0.3m			
SOF	<i>Salvia officinalis</i>	common sage	40	200 Pot	4/m ²	0.8 x 1m			
SRO	<i>Salvia rosmarinus</i>	rosemary	40	200 Pot	4/m ²	0.6 x 0.6m			
SBY	<i>Stachys byzantina</i>	lamb's-ear	40	200 Pot	4/m ²	0.6 x 0.9m			
GRASSES/GROUNDCOVERS									
CSE	<i>Cenchrus setaceus</i>	crimson fountaingrass	64	150 Pot	4/m ²	0.9 x 0.9m			
STE	<i>Sempervivum tectorum</i>	Hens and chicks	64	150 Pot	4/m ²	0.15 x 0.3 m			
TCI	<i>Thymus citriodorus</i>	lemon thyme	64	150 Pot	4/m ²	0.15 x 0.3 m			
PUBLIC DOMAIN									
GROUNDCOVERS									
GRM	<i>Grevillea Royal Mantle</i>	Grevillea	368	150 Pot	2/m ²	0.2x6m	y		
JCO	<i>Juniperus Conferta</i>	Shore Juniper	252	150 Pot	2/m ²	0.3x2.5m			
MPA	<i>Myoporum parvifolium</i>	Boobialla	124	150 Pot	2/m ²	0.2x3m	y		

REV	BY	DATE	DESCRIPTION
0	BH	06.12.2021	ISSUED FOR CONSTRUCTION
1	BH	06.04.2022	ISSUED FOR CONSTRUCTION
2	HK	09.06.2022	ISSUED FOR CONSTRUCTION
3	BH	21.09.2022	ISSUED FOR CONSTRUCTION

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DRAWING NAME
LANDSCAPE: SITE PLANTING PLAN
SSDA - MOD1

PROJECT
NEW PRIMARY SCHOOL
IN GOOGONG
GORMAN DRIVE, GOOGONG

NORTH

5000 10000 15000 20000 25000 50000
SCALE 1 : 500 @ A1

21 SEPTEMBER 2022

PROJECT DISCIPLINE PHASE SERIES NUMBER REVISION
GOOG - LA - CD - L400 3