

SYDNEY OLYMPIC PARK NEW HIGH SCHOOL SSDA

LANDSCAPE DESIGN REPORT

PREPARED FOR
SCHOOLS INFRASTRUCTURE NSW
24 MARCH 2022

ACKNOWLEDGEMENT TO COUNTRY

Urbis acknowledges the traditional country of the Wann-gal people. We recognise and respect their cultural heritage, beliefs and continuing relationship with the land, and that they are the proud survivors of more than two hundred years of dispossession.

We reiterate our commitment to addressing disadvantages and attaining justice for Aboriginal and Torres Strait Islander peoples of this community.

ISSUE AUTHORISATION

Document Title: Sydney Olympic Park new high school
Landscape Design Report
Document No.: Urbis LA_001
Project No.: P0033179
Prepared for: School Infrastructure NSW
Date: 24 March 2022
Prepared: Yen Vu / Sam O'Connor
Reviewed: Mark Kuhne

Rev	Date	Purpose	Prepared	Reviewed
01	17.09.21	SSDA Issue	YV/SO	MK
02	10.12.21	SSDA Issue	YV/SO	MK
03	25.02.22	SSDA Issue	YV/SO	MK
04	24.03.22	SSDA Issue	YV/SO	MK

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Title: Connecting Land
Artists: Tarris King and Sarita King
Clan: Gurindji

Connecting Land is an expression of the beauty of the Australia Landscape. People's connection to the country and the lessons that caring for the land can teach us. Respect for the lands of Australia and creating a positive impact for people is at the centre of shaping great Australian cities and communities

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EXECUTIVE SUMMARY

This Landscape Design Report has been prepared by Urbis on behalf of the NSW Department of Education. It supports a State Significant Development Application Sydney Olympic Park new high school at 7-11 Burroway Road, Wentworth Point. The design features outdoor learning, play and recreational areas (both covered and uncovered) and associated site landscaping and public domain improvements.

The purpose of this landscape report is to demonstrate the landscape design intent for the subject site.

RESPONSE TO SEARS

The landscape design report is required by the Secretary’s Environmental Assessment Requirements (SEARs) for SSD-11802230. This table identifies the SEARs and relevant reference within this report.

Sears Item	Response Location
<div>Provide a detailed site-wide landscape strategy, that:<ul style="list-style-type: none">Details the proposed site planting, including location, number and species of plantings, heights of trees at maturity and proposed canopy coverage.Provides evidence that opportunities to retain significant trees have been explored and/or informs the plan.Considers equity and amenity of outdoor play spaces, and integration with built form, security, shade, topography and existing vegetation.Demonstrates how the proposed development would:<ul style="list-style-type: none">Contribute to long term landscape setting in respect of the site and the streetscape.Mitigate the urban heat island effect and ensure appropriate comfort levels on-site.Contribute to objectives to increase urban tree canopy cover.</div>	<div>Section 1.0 Landscape Design Section 3.0 Site Access & Circulation Section 5.0 Landscape Planting Strategy Section 6.0 Fencing Strategy Section 7.0 Planting Schedule Section 8.0 Indicative Plant Species</div>
<div>A detailed landscape plan prepared by a suitably qualified person.</div>	<div>Refer Part C Landscape Plans</div>



LANDSCAPE DESIGN CONCEPTS

1.0 INTRODUCTION

THE PROPOSAL

The proposed development is for the construction of a school whereby the project is known as Sydney Olympic Park new high school. The school is to be constructed in a single stage and occupied in two stages. The SSD application seeks consent for both Stage 1 and Stage 2.

Stage 1 will provide for a Stream 5 high school catering for up to 850 students. Stage 2 will bring the school up to a Stream 9 school capability catering for up to 1,530 students.

The design features a main six-storey building as well as a hall building for sports and performance.

The play space required to meet the needs of Stage 1 can be generally accommodated on site within the 9,511sqm available. In order for Stage 2 to commence operation, additional play space is required to accommodate the increased student numbers. This additional play space will be provided by a future playing field to the north, which will be subject to a Joint Use Arrangement and available for public use outside school hours.

The remainder of the peninsula (TfNSW land) is under review and will be subject to a separate approval process. Redevelopment of this land will include a new access road off Burroway Road along the eastern boundary of the subject site, which will feature car parking, drop-off zones and waste zones for the school. Commencement of Stage 2 is reliant upon delivery of this road.

SITE DESCRIPTION

The proposed development is located within the peninsula of Wentworth Point at 7-11 Burroway Road, Wentworth Point, legally known as Lot 1 DP1276305.

The site forms part of the Wentworth Point Planned Precinct, which was rezoned in 2014 for the purposes of high density residential, public recreation, school and business purposes.

The site is approximately 9,511sqm in area, with a frontage of approximately 91m to Burroway Road. It currently contains vacant land, which is cleared of all past development, and almost entirely cleared of native vegetation.

The surrounding area is generally characterised by high rise residential and mixed-use developments. The site is directly adjacent to the Wentworth Point Peninsula Park and immediately east of Wentworth Point Public School.



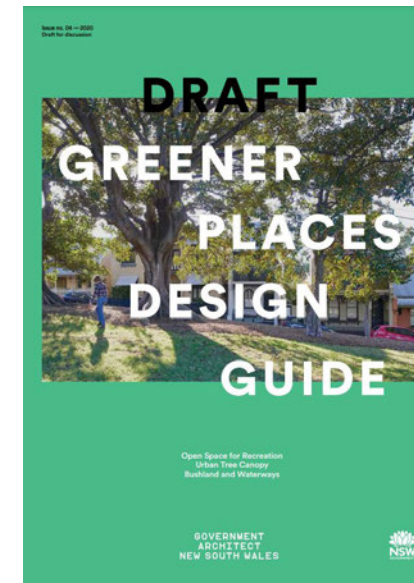
2.0 RELEVANT POLICIES AND GUIDELINES



BETTER PLACED - DESIGN GUIDE FOR SCHOOLS

In May 2018, the Government Architect New South Wales (GANSW) released the *Design Guide for Schools* in collaboration with the Department of Education to assist school communities and project teams in planning projects, as well as consent authorities and designers in assessing school development applications. It is also intended to help in preparing school proposals for complying development certificates.

The design guide promotes and champions good design process and outcomes for schools across NSW. It aims to help deliver schools that respond positively to their physical, social and environmental context and support the delivery of excellent learning environments.

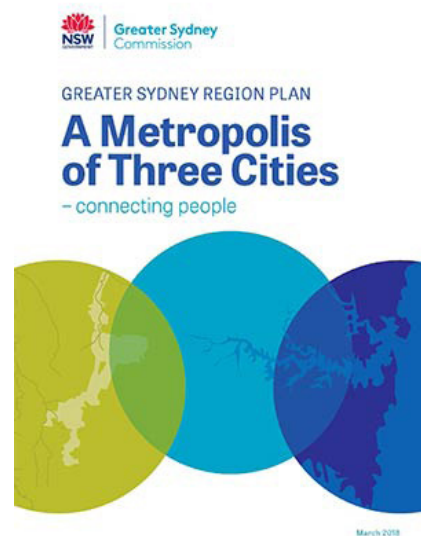


DRAFT GREENER PLACES DESIGN GUIDE

In June 2020, the Government Architect New South Wales (GANSW) released the *Draft Greener Places Design Guide* to provide information on how to design, plan, and implement green infrastructure in urban areas throughout NSW. The draft guide provides strategies, performance criteria and recommendations to assist planning authorities, and design and development communities to deliver green infrastructure.

The Greener Places design guide explains green infrastructure, why we need it and the benefits of providing it. The major components that make up the green infrastructure network fall into three categories:

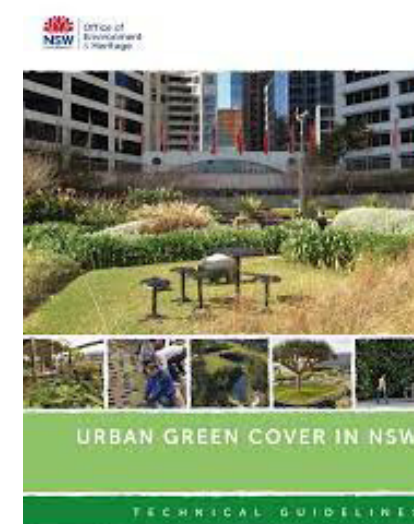
1. **Open space for recreations: green infrastructure for people**
2. **Urban tree canopy: green infrastructure for climate adaptation and resilience**
3. **Bushland and waterways: green infrastructure for habitat and ecological health.**



GREATER SYDNEY REGION PLAN - A METROPOLIS OF THREE CITIES

In March 2018, the Greater Sydney Commission (GSC) released the *Greater Sydney Region Plan* (the Region Plan) articulating a 40-year vision to transform Greater Sydney into 'A Metropolis of Three Cities' - the Western Parkland City, The Central River City and the Eastern Harbour City.

The Region Plan establishes a 20-year plan to rebalance growth and deliver its benefits more equally and equitably to residents across Greater Sydney. It is built upon a vision where most residents live within 30-minutes of their jobs, education and health facilities, services and great places.



URBAN GREEN COVER IN NSW - TECHNICAL GUIDELINES

In 2015, the Government of NSW and Office of Environment and Heritage released the *Urban Green Cover in NSW Technical Guidelines* articulate practical advice, best practice and guidelines to increase the resilience of NSW settlements and communities to climate change, specifically to increase temperatures in urban settings.

The technical guidelines offer built environment professionals working in state and local government and the private sector practical information and typical details to encourage best practice applications of green cover, so as to minimise urban heat impacts across NSW.

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3.0 LANDSCAPE DESIGN VISION

To create a series of vibrant, diverse, inclusive and interconnected learning and play spaces that foster a greater connection to nature.

We have developed an integrated landscape design response which will:

- Provide multiple connections with the natural environment;
- Respond to the architectural scheme by ensuring seamless transitions from indoors to outdoors;
- Connect with the external spaces and playground environment in an engaging and playful way;
- Enrich the learning experience through an educational landscape setting which provides a variety of scales, active and passive spaces and which achieves synergy between diverse, collocated precincts;
- Maximise outdoor learning opportunities that are flexible and allow customization and
- Offers a safe and secure learning and play environment

4.0 LANDSCAPE DESIGN PRINCIPLES

OUTDOOR LEARNING



- Provide a variety of external learning and collaboration opportunities catering for a range of different group sizes;
- Covered outdoor spaces (COLA) integrated with the built form;
- The Central Courtyard provides flexible learning spaces with movable furniture that can be adapted to different size groups;
- Indigenous Productive and Kitchen Gardens are proposed

FREE PLAY



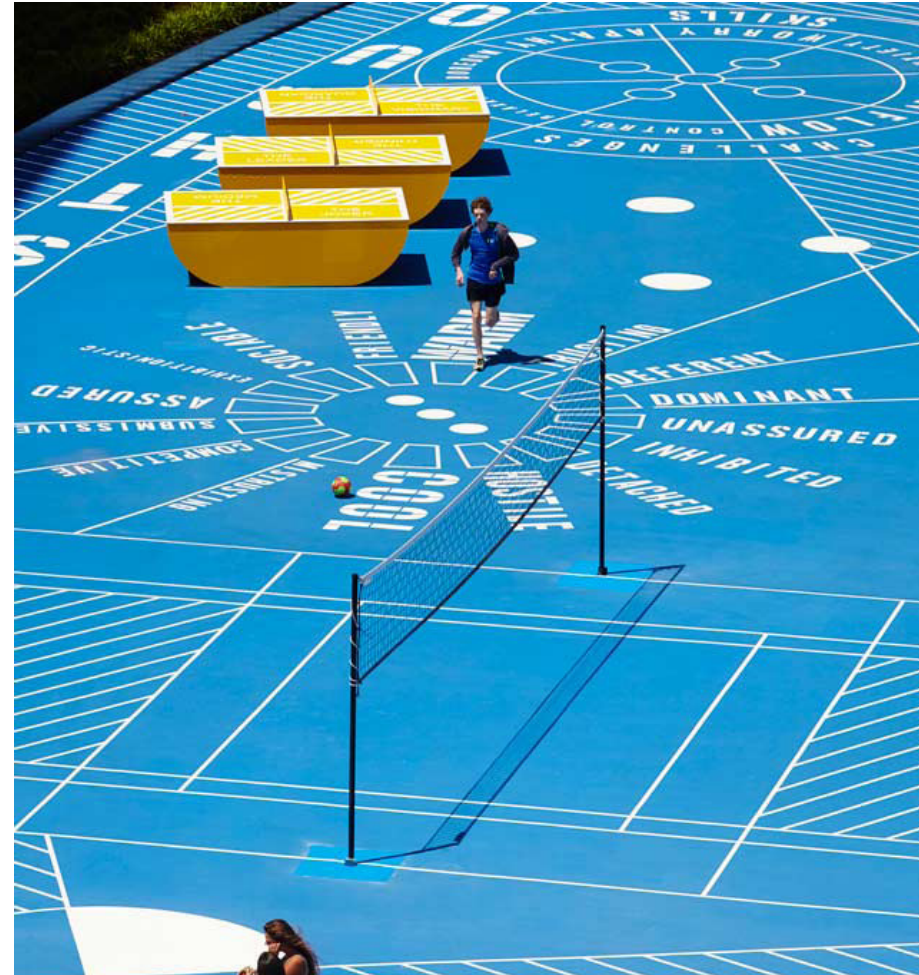
- Provide a variety of informal free play opportunities;
- Covered outdoor spaces integrated with the built form;
- External spaces designed to be diverse, flexible and easily adaptable by students;
- Provide opportunities for small and medium size groups of children to come together

BIOPHILIA



- Provide multiple opportunities to connect to nature;
- Improved sustainability and ecology response to mitigate Urban Heat and enhance building cooling;
- Increased Natural Green Canopy;
- Green roofs to improve the thermal properties of the building envelope and provide shared landscape amenity for adjacent buildings

STRUCTURED PLAY



- Provide a series of structured, active play opportunities;
- Provide opportunities for small, medium and large groups of students to interact and play;
- Provide seating opportunities adjacent to structured play

CIRCULATION



- Improved views and physical connections to the river;
- Improved connectivity and distribution of external spaces;
- Enhanced views and physical connections to all external and internal spaces;
- Reinforced integration with the locality's public open space network

5.0 LANDSCAPE DESIGN

SITE PLANNING

Built form directly addresses the street fronts, with the main school entry and drop-off zone occurring on Burroway Road with secondary (Community) entries located on the proposed road on the eastern boundary.

The multi-storey building blocks along the street front create a strong geometry and organisational framework for access and circulation throughout the site. This is further reinforced by the covered walkway, highlighting the main school pedestrian spine.

The outdoor spaces include:

- Entry forecourt
- Central Courtyard and lawns
- Multi-sports courts/assembly area and structured playspaces
- Covered Amphitheatres adjacent to the COLA's
- Outdoor learning areas/break-out spaces
- Productive garden
- Support Unit outdoor play spaces
- Green roof to improve biodiversity and habitat

The external spaces have been designed to be flexible and multifunctional spaces. Balancing structured play and free play programs which provide opportunities to consolidate outdoor learning with play spaces, multi-sports courts with assembly areas.

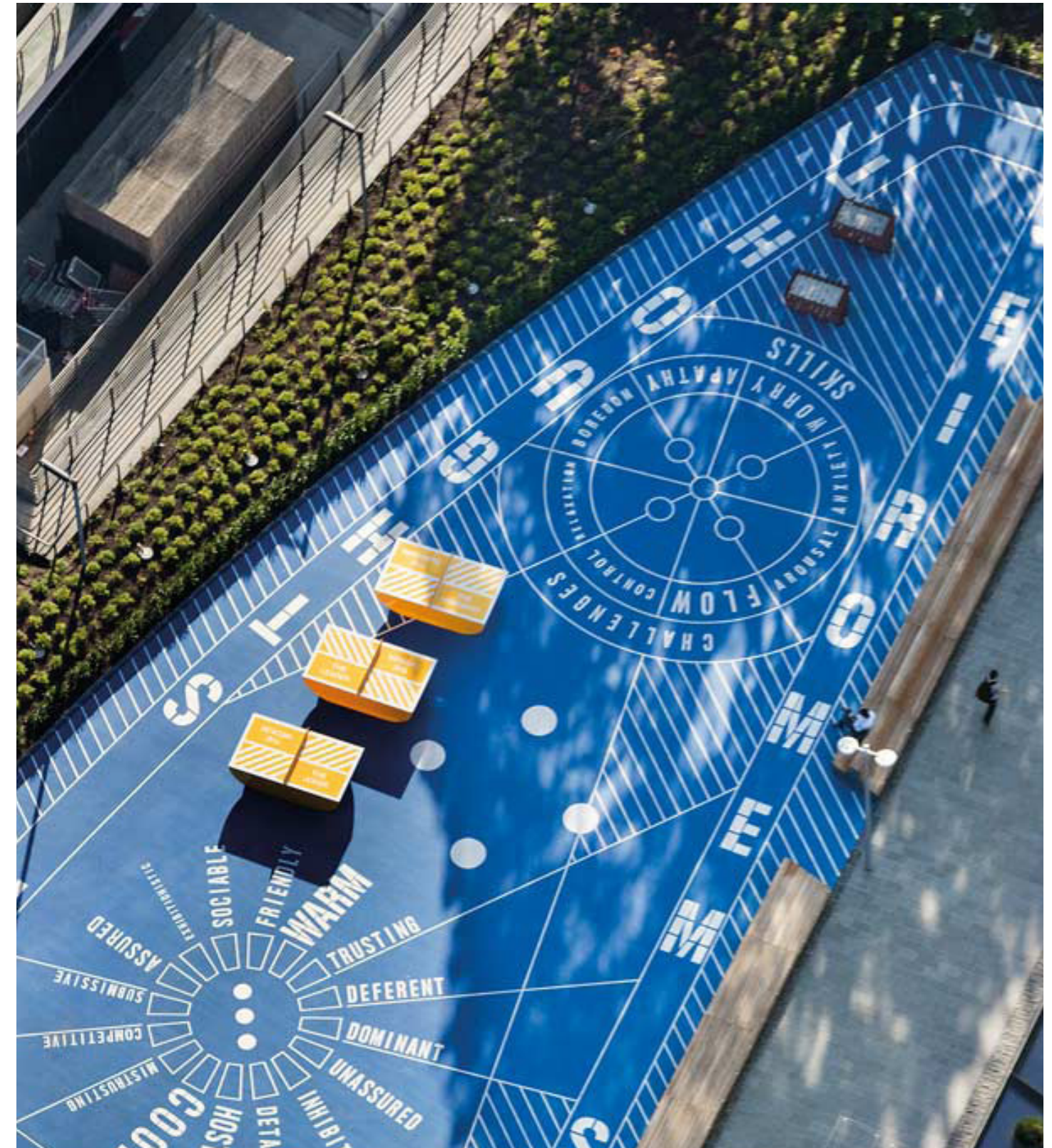
This has provided a diversity of outdoor spaces which are collaborative and flexible that respond to the school environment.

LANDSCAPE SETTING

The landscape design respects and responds to its natural environment, including Aboriginal cultural heritage. The plant selection for the site has been chosen to be sensitive of local ecosystems, with a majority of species being chosen from within local communities including endangered communities of the Sydney Turpentine-Ironbark Forest and Swamp-oak Floodplain Forest that are endemic to the area around Wentworth Point and Sydney Olympic Park.

The proposed tree and other planting including indigenous productive gardens will enhance opportunities for play and learning. Integrated landscape, planting and Water Sensitive Urban Design (WSUD) principles will be incorporated to enhance amenity and landscape performance.

The overall landscape design aims to improve the amenity within school grounds and for uses adjacent to the school.



6.0 ARBORICULTURAL ASSESSMENT

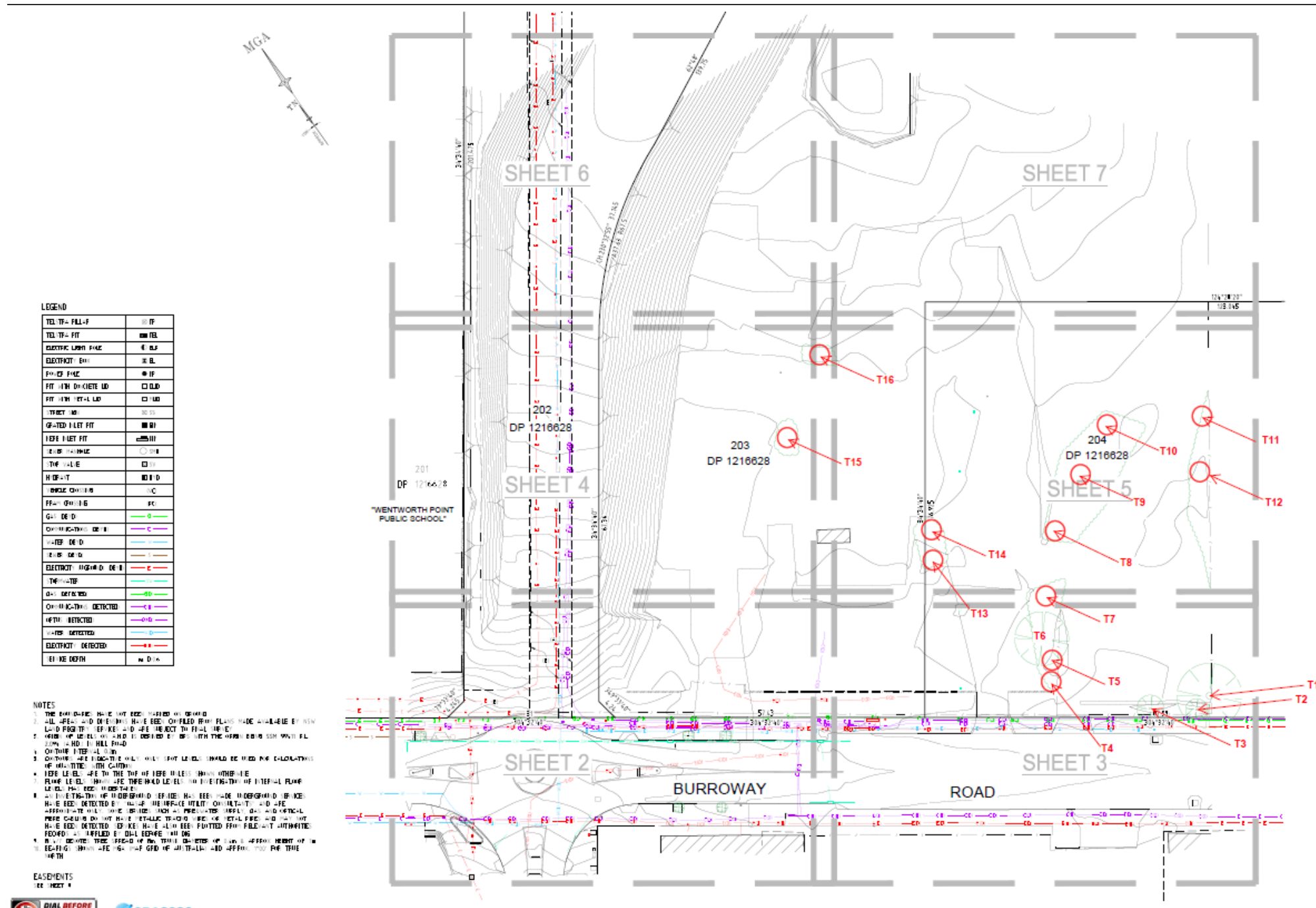
Tree IQ undertook a Visual Tree Assessment¹ (VTA) and determined the impact of the proposed works on the trees, and where appropriate, recommended the use of sensitive construction methods and tree protection methods to minimise adverse impacts.

Twenty-six (26) trees (and tree groups) were assessed using the Visual Tree Assessment2 (VTA) criteria and notes. Trees 1-12 and 17-26 are located outside of the site with Trees 13-16 located within the site boundaries. The trees comprise of a mix of locally indigenous, Australian-native and exotic species. Five (5) species are represented with *Casuarina glauca* (Swamp She Oak) being the dominant species on site.

A number of juvenile *Avicennia marina* (Grey Mangrove) are located on the Parramatta River shoreline plus small, semimature to early-mature weed species including *Cinnamomum camphora* (Camphor Laurel), *Olea europaea* subsp. *Cuspidata* (African Olive), *Celtis sinensis* (Chinese Hackberry) and *Erythrina crista-galli* (Cocks Comb Coral Tree) located within the area of rough grass bordering the shoreline.

The supplied plans show that Trees/Tree Groups 13, 14, 15 and 16 will need to be removed to accommodate the proposed building footprint.

Refer to Tree IQ Arborist report for additional detail.

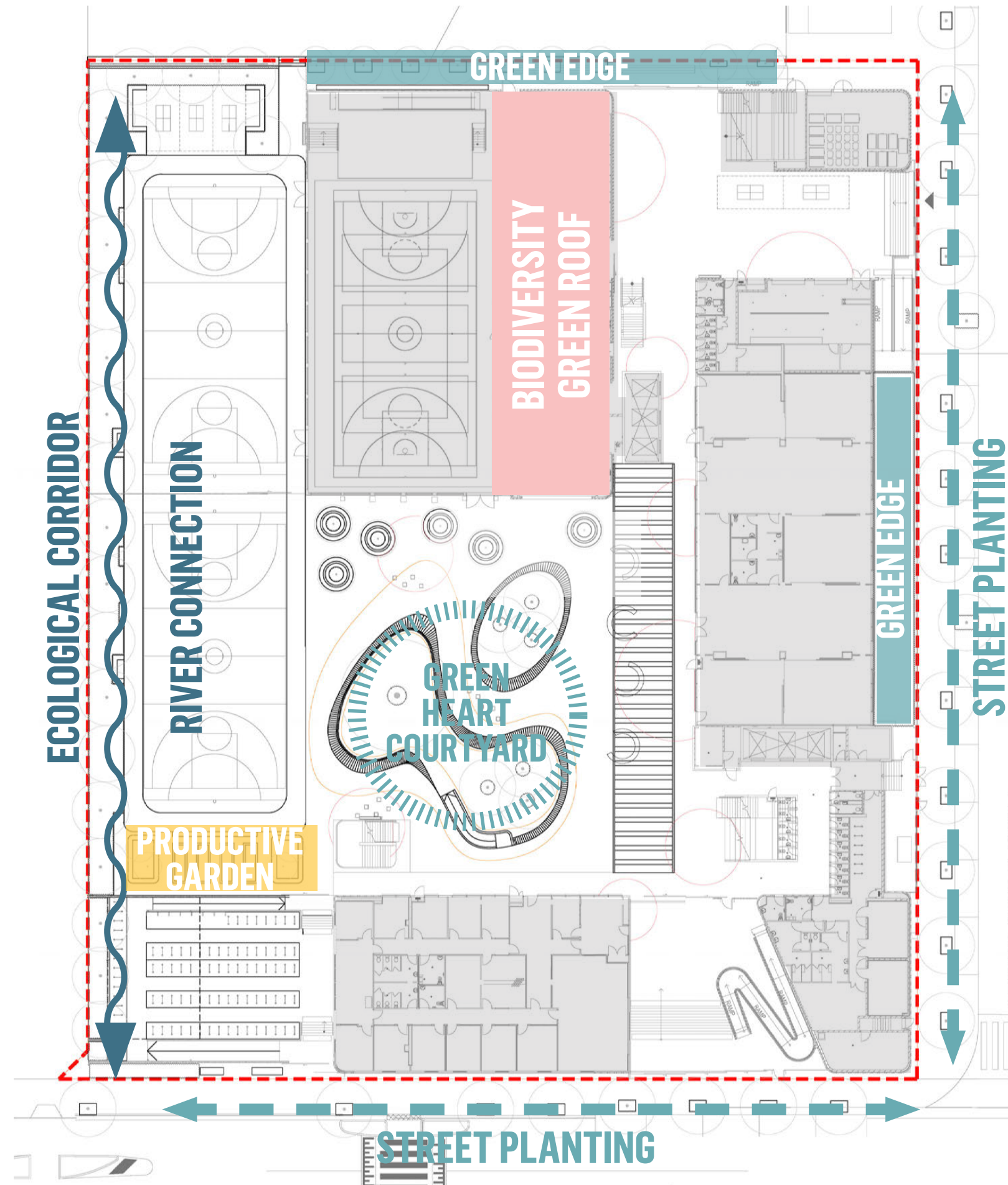


7.0 LANDSCAPE OPPORTUNITIES

ENVIRONMENT AND ECOLOGY

The landscape design responds to the local context and provides:

- Multiple opportunities to connect and engage with nature;
- Improved sustainability and ecology response to mitigate Urban Heat and enhance building cooling;
- Increased Natural Green Canopy;
- Green roofs and arbours to improve the thermal properties of the building envelope and provide shared landscape amenity for adjacent buildings;
- A celebration of the existing ecological and environmental systems on the site



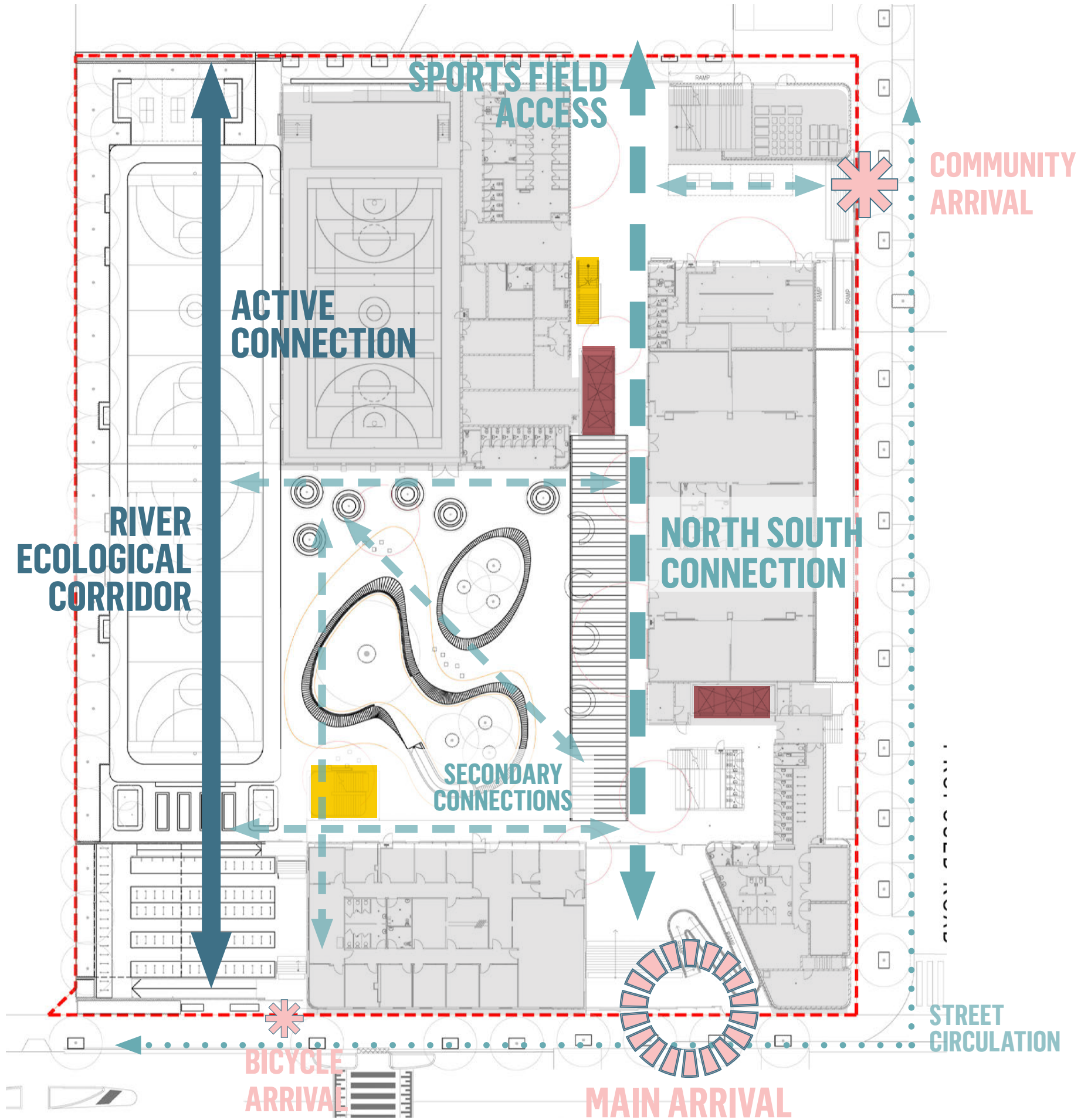
NOT TO SCALE

SITE ACCESS AND CIRCULATION

The building along the street front creates a strong geometry and organisational framework for access and circulation throughout the site. The main arrival is off Burroway Road, a community arrival is situated to the North East Corner off the proposed new access road by others. Internal access is ordered off the Primary covered North South link, with secondary access via the external spaces

- LEGEND:
- Staircase Access
 - Lift Access

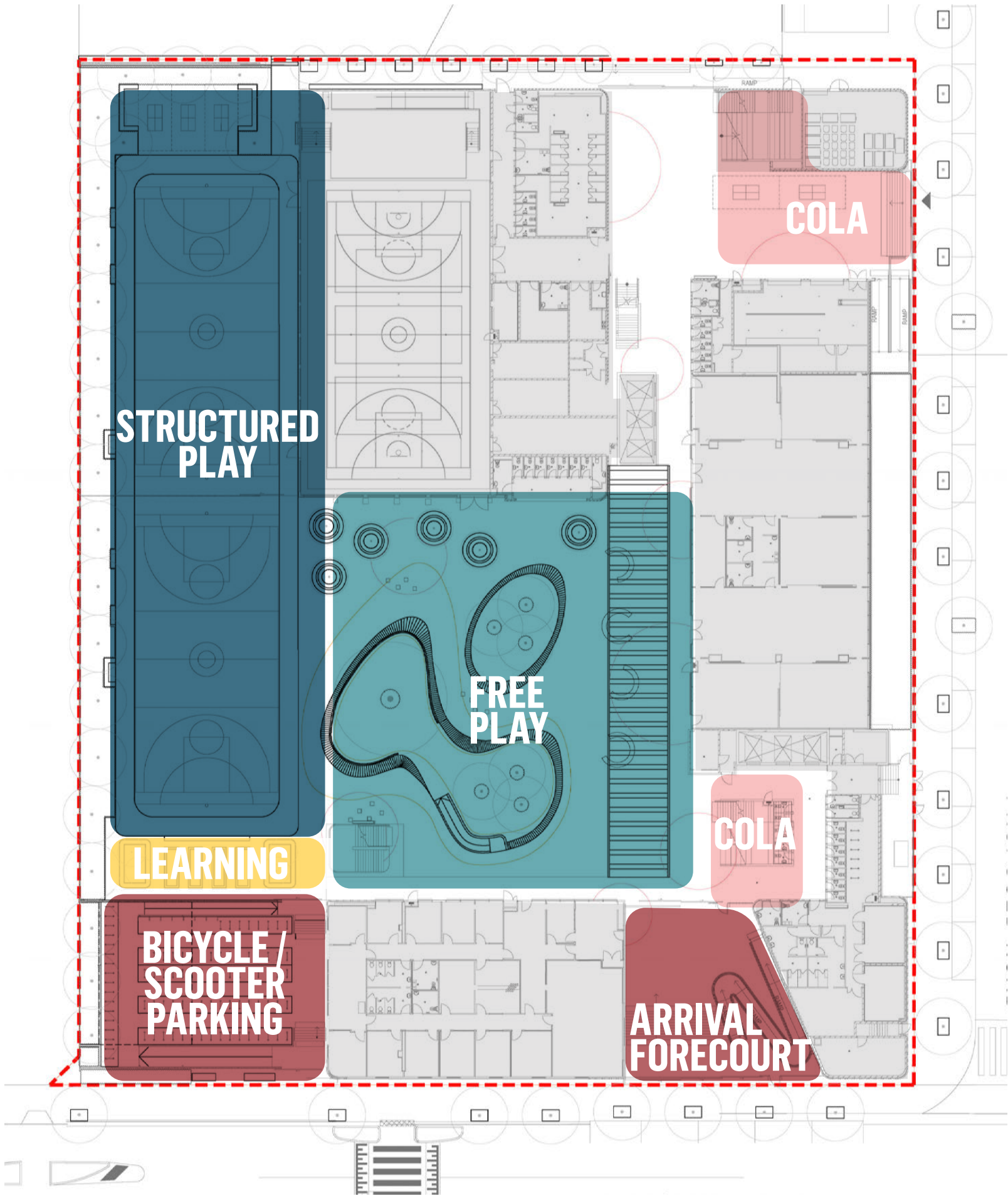
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DESTINATIONS

The landscape design provides opportunities for both active, structured play and flexible, free play and learning through a diverse range of typologies including:

- Covered amphitheatres and gathering spaces;
- Covered outdoor spaces integrated within the built form;
- Indigenous Productive Gardens;
- Informal outdoor seating nodes integrated within the landscape setting



GATHERING SPACES

The landscape design provides opportunities for a variety of gathering spaces at different sizes and scales. These spaces cater for a wide range of uses including formal and informal gathering and social zones, learning programs and play areas.

LEGEND:

XL Gathering - Gym and External Sports Court

XL Gathering - 2 External Sports Court

Sports Field and Seating Area

Stair / Amphitheatre Gathering COLA

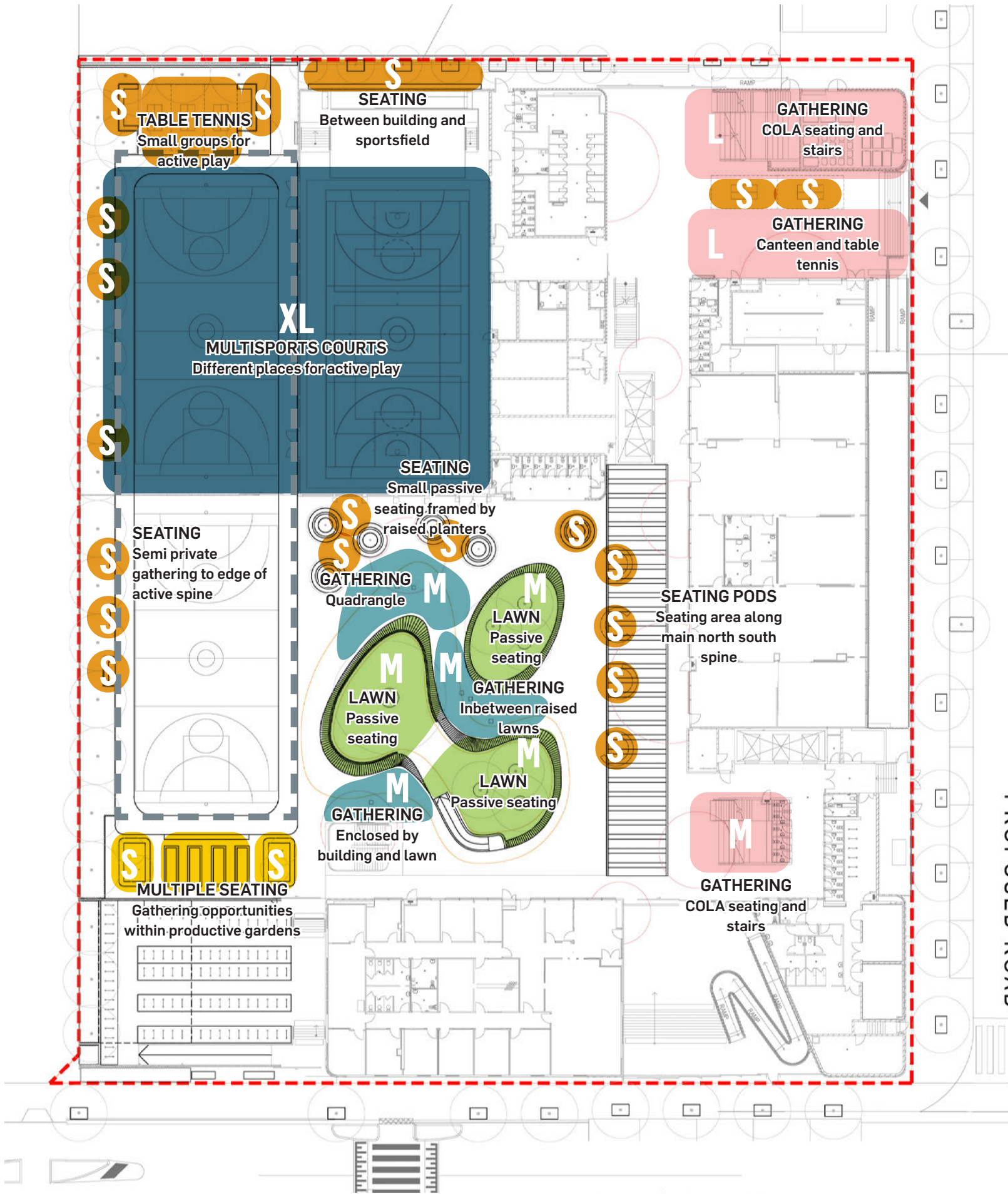
Covered Arrival Forecourt

Medium Flexible Gathering - Learning, Play and Social Spaces

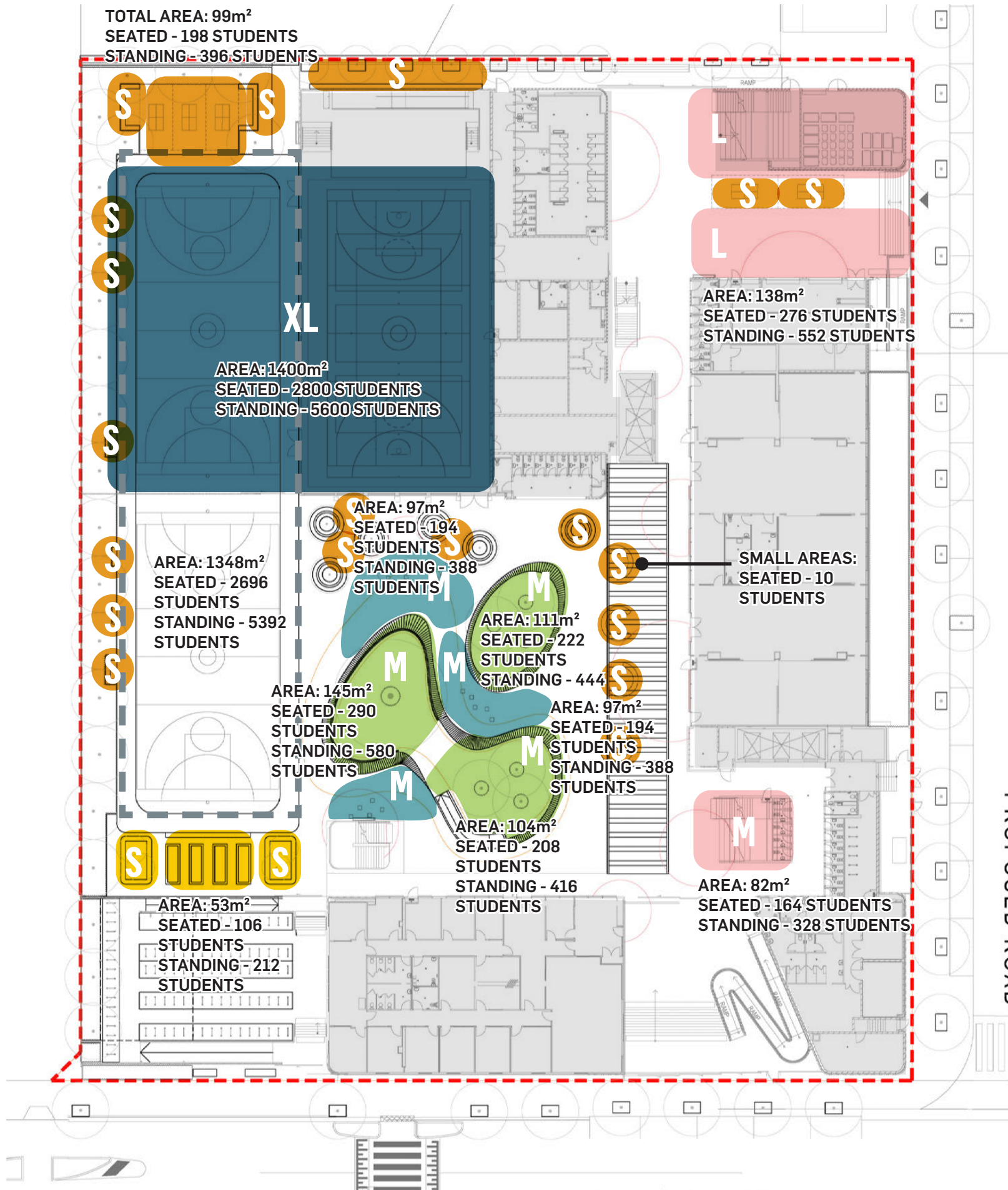
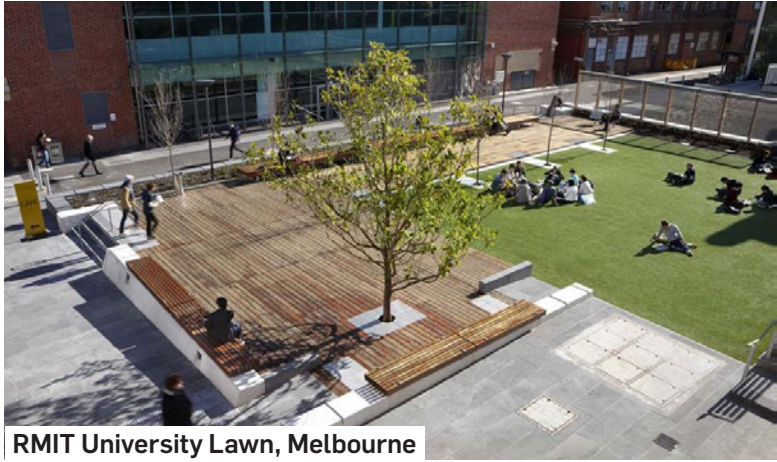
Landscape Learning Spaces - Productive Gardens, Kitchen Gardens, Biodiversity Roof

Small Scale Gathering / Meeting Places

Medium Gathering - Raised Lawn

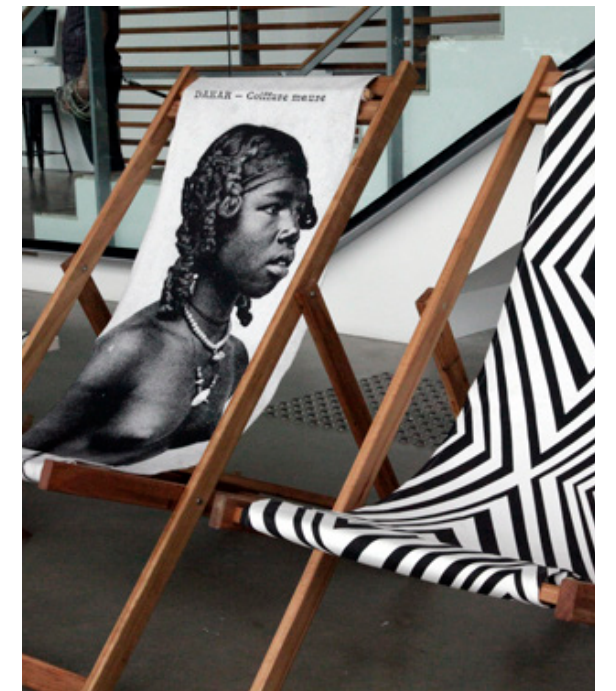
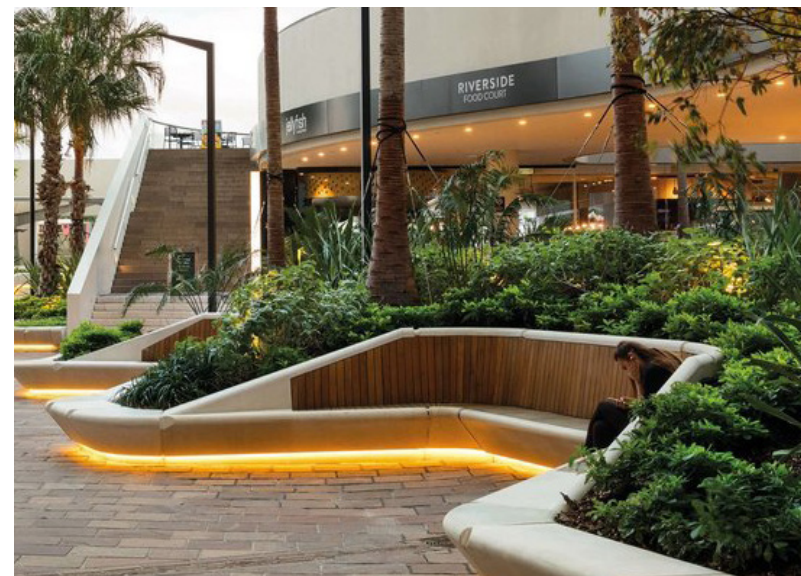
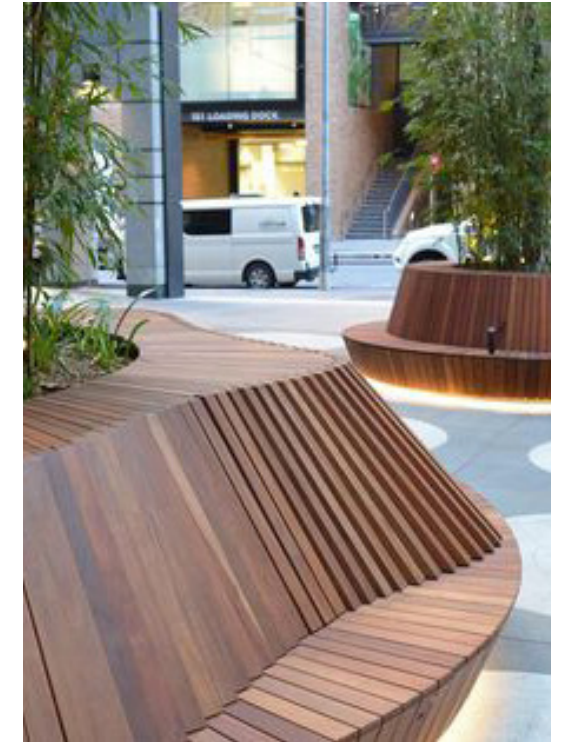


GATHER SPACES NUMBERS



8.0 PRECEDENT IMAGERY

BREAK OUT SPACES



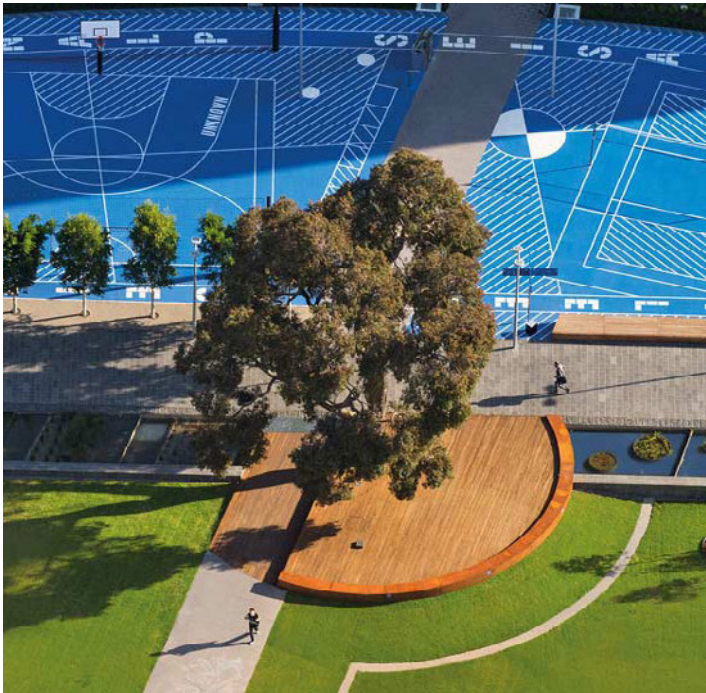
ACTIVE AREA / SPORTS COURTS



COVERED OUTDOOR LEARNING AREA (COLA)



CENTRAL TREE



FLEXIBLE FURNITURE



BIODIVERSITY GREEN ROOF



PRODUCTIVE GARDEN



INVITING ARRIVAL



9.0 PLANTING STRATEGY







The Planting Strategy identifies the following 6 typologies:

- Streetscape Planting
- Productive Gardens
- Central Courtyard
- Western Edge
- Green Roof
- Northern Boundary

Within the site boundary the landscape design proposes a total of 48 new trees, offering a total green canopy cover of approximately 23% of the total communal open space. The inclusion of architectural arbours and shade canopies increases this canopy cover by an extra 5%. An additional 3% ground level COLA is proposed by the architects.

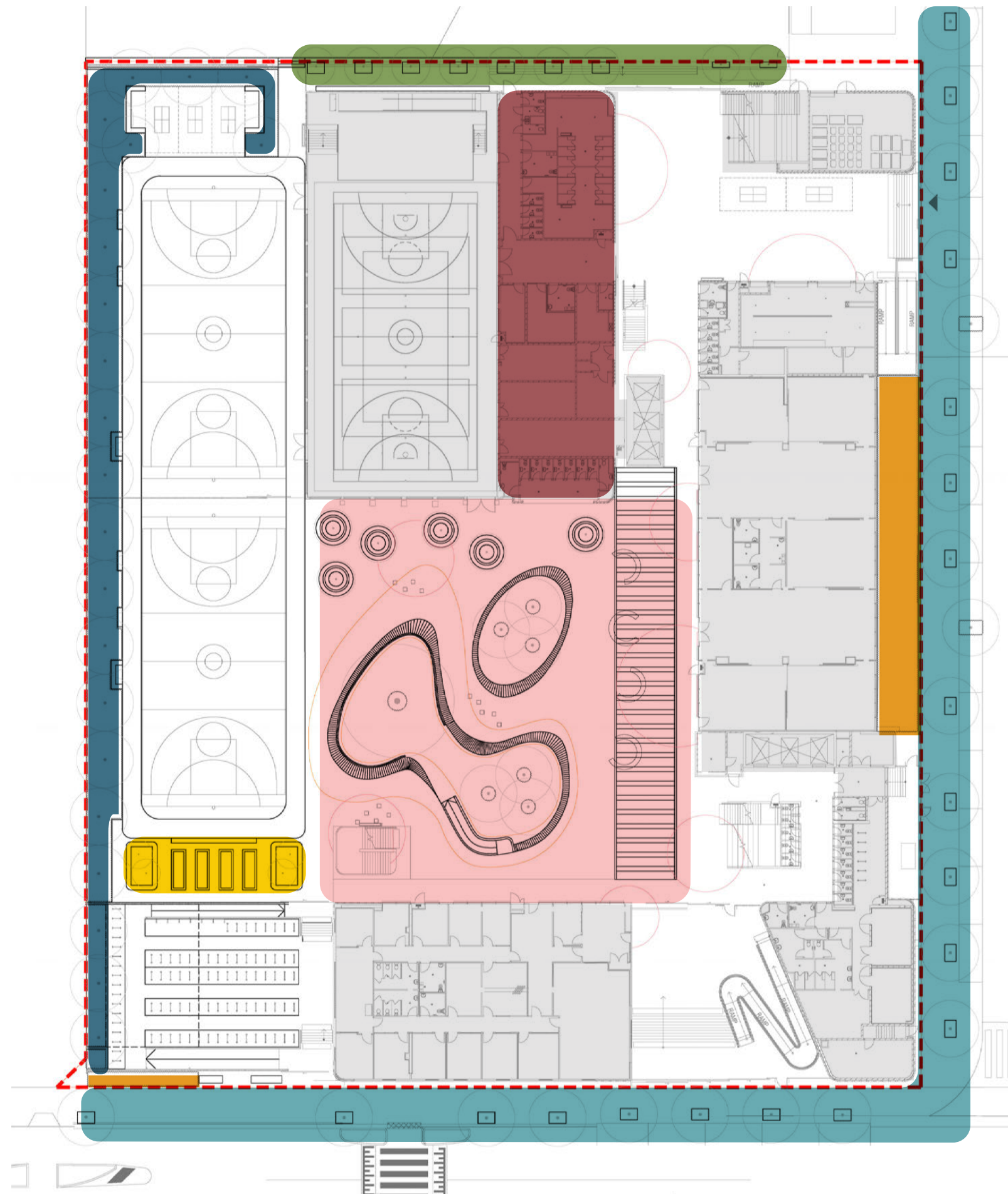
Please refer to Part B Planting Design, 11. Plant Schedule for proposed plants to each of the typologies

LEGEND:

-  Streetscape Planting
-  Productive Garden
-  Central Courtyard
-  Western Edge
-  Green Roof
-  Screen Planting
-  Northern Boundary



NOT TO SCALE



10.0 FENCING STRATEGY

The vision for Sydney Olympic Park new high school is to foster permeability of the physical environment to encourage movement and connections. This includes visual connections from the street.

The overarching principles for the Precinct Plan's fencing strategy are:

- Minimise the visual impact of fences/barriers on the streets;
- Ensure an open and transparent design response and
- Be unobtrusive

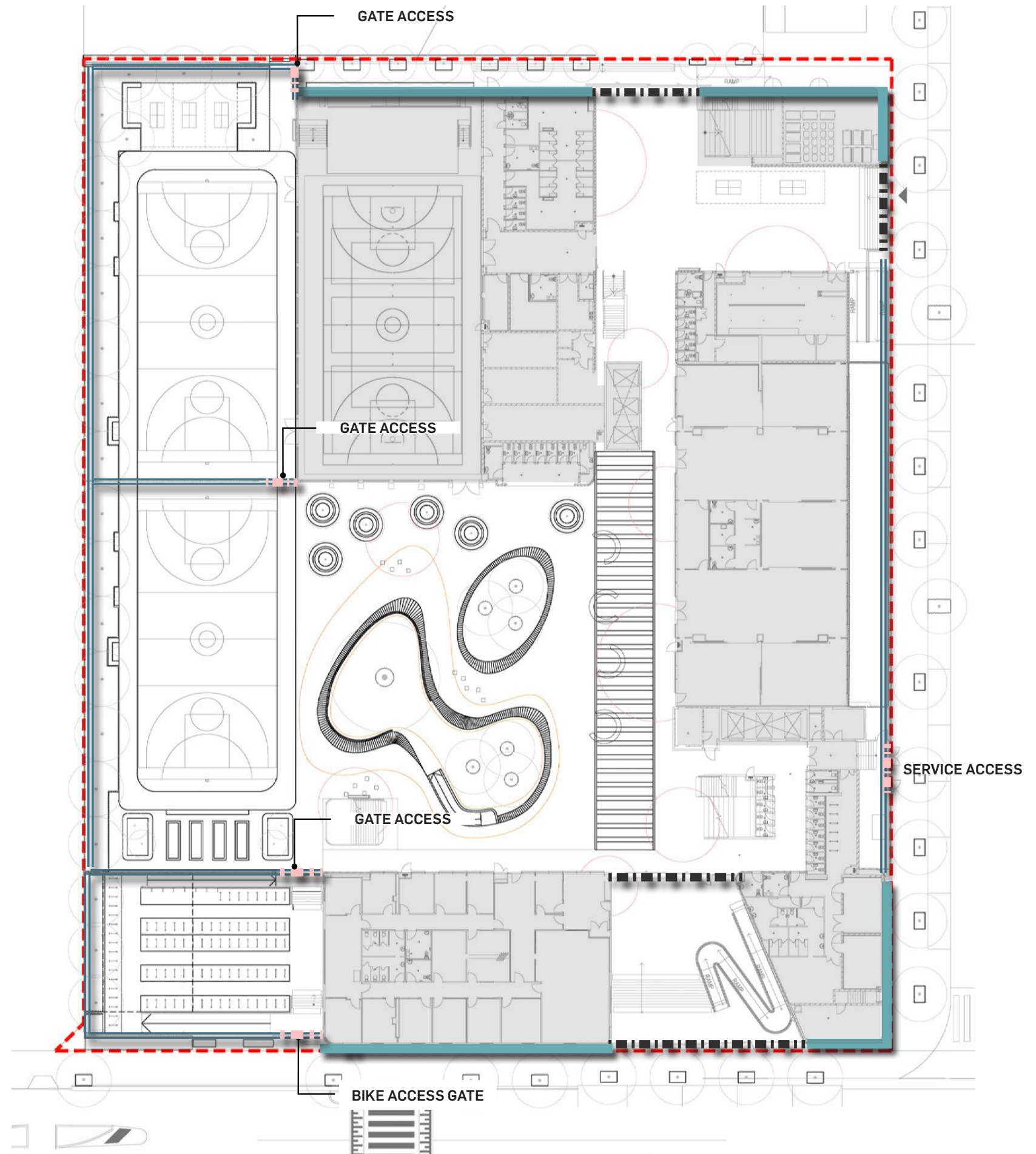
Generally vertical bar railings, powder coated black with planting is preferred.

Low Visual Impact will be achieved by:

- Eliminating fencing where possible (using the building as the secure line);
- Using planting & landform in conjunction with fencing to reduce visibility of fencing;
- Integrate planting with fences.

LEGEND:

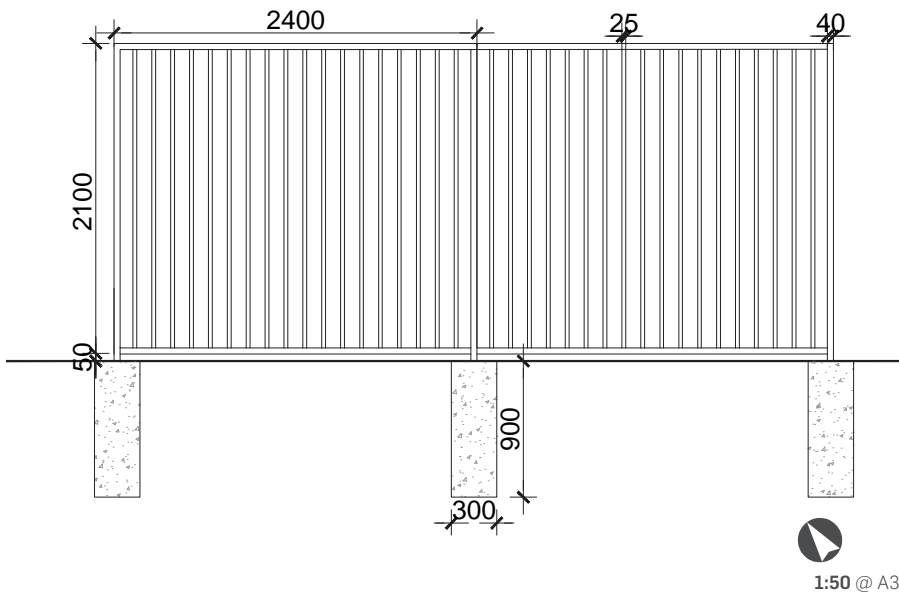
- 2.1m High Fixed Boundary Fence
- Building As Boundary
- Sliding Gates
- School Gates



INDICATIVE FENCING



2.1m High fixed fence with planting to boundary



Pivot/ Sliding Gates

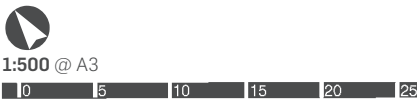
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11.0 LANDSCAPE CONCEPT DESIGN SITE PLAN

GROUND FLOOR

LEGEND:

- ① Main Arrival
- ② Amphitheatre Seating
- ③ Central Courtyard
- ④ Running Track
- ⑤ Sports Courts
- ⑥ First Nations Productive Garden
- ⑦ Bicycle + Scooter Stands / Parking
- ⑧ Table Tennis
- ⑨ Ecological Planting Corridor
- ⑩ Community Arrival
- ⑪ COLA Break Out Area
- ⑫ Northern Access
- ⑬ Seating Bench
- ⑭ Multi Purpose Sports Field
- ⑮ Planting Buffer
- ⑯ Services
- ⑰ Indicative Street Tree Planting
- ⑱ Bicycle Parking Cover



11.1 LANDSCAPE CONCEPT DESIGN DETAIL PLAN

GROUND FLOOR CENTRAL COURTYARD DETAIL

LEGEND:

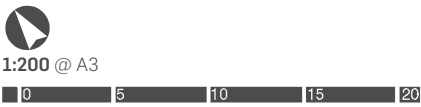
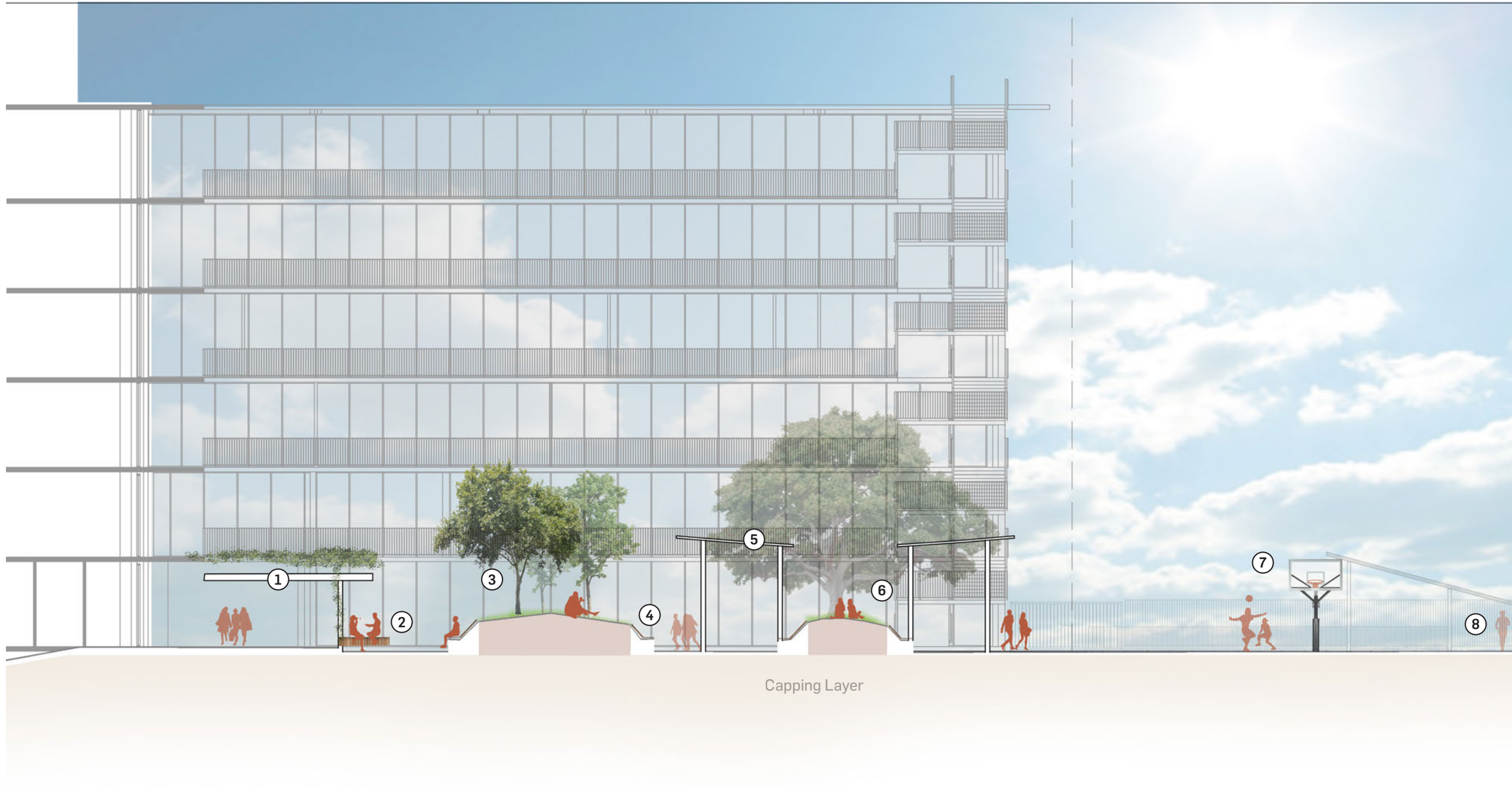
- ① North South Arbour
- ② Raised Lawn Area
- ③ Feature Tree Fig
- ④ Raised Seating Planter
- ⑤ Shaded Arbour Structure
- ⑥ First Nations Productive Garden
- ⑦ Seated Tree Planter
- ⑧ Moveable Furniture / Seating Elements
- ⑨ Amphitheatre Seating Steps
- ⑩ Bicycle Parking Cover



12.0 LANDSCAPE CONCEPT SECTIONS

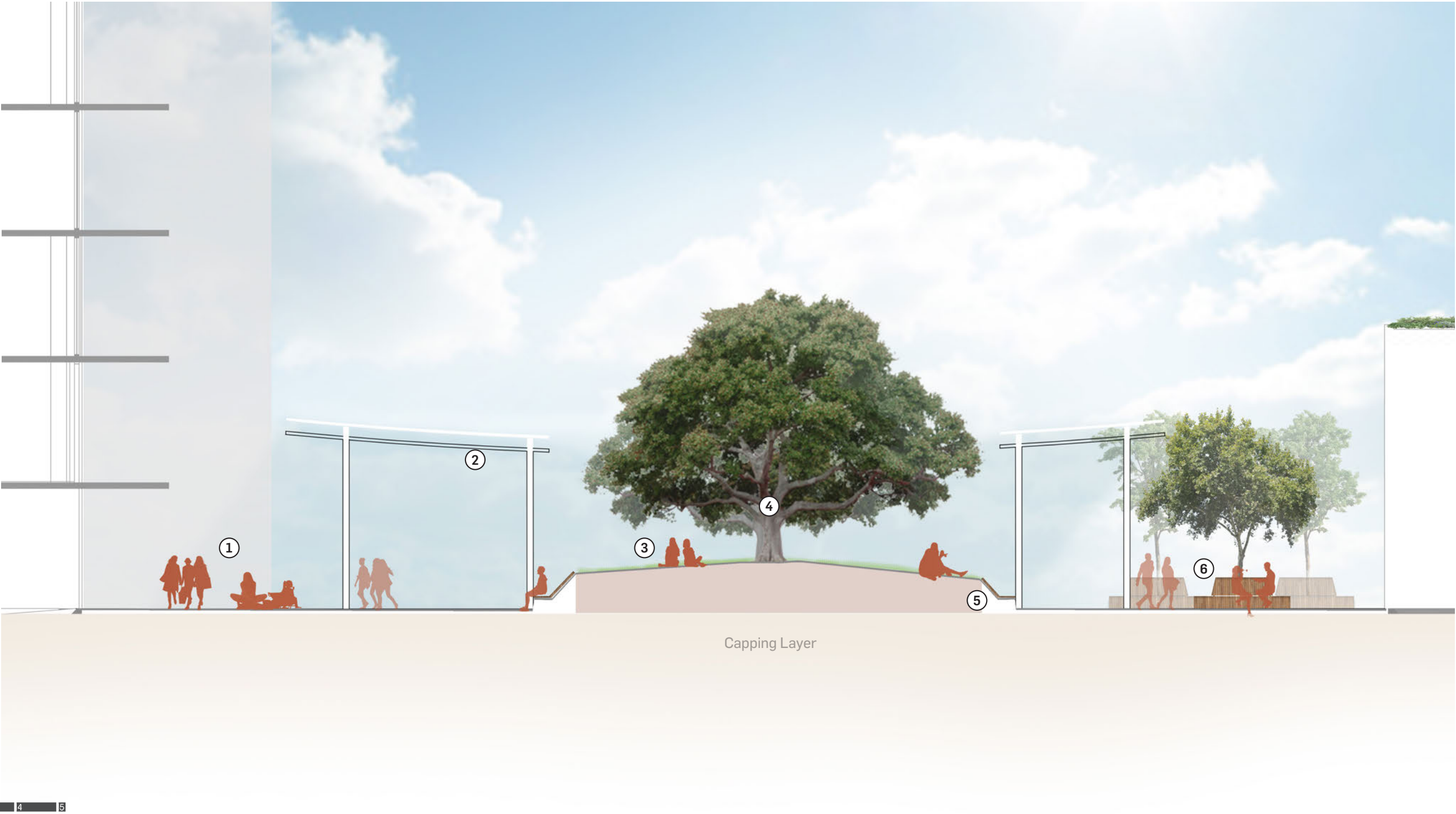
SECTION A

- LEGEND:**
- ① Planted Arbour
 - ② Seating Nodes
 - ③ Small Shade Trees
 - ④ Seating Wall
 - ⑤ Shade Canopy
 - ⑥ Raised Lawn Mounds
 - ⑦ Multi Purpose Sports Field
 - ⑧ Running Track



SECTION B

- LEGEND:
- ① Flexible Seating
 - ② Shade Canopy
 - ③ Raised Lawn Mound
 - ④ Feature Fig Tree
 - ⑤ Wall Seating
 - ⑥ Seating Planters
 - ⑦ Green Roof



13.0 LANDSCAPE CONCEPT DESIGN GREEN ROOF

- LEGEND:**
- ① Insitu Concrete Path
 - ② Biodiversity Green Roof
 - ③ Access Stairs





B

PLANTING DESIGN

14.0 INDICATIVE PLANT SCHEDULE

Planting selection for the site has been chosen to be sensitive of local ecosystems, with a majority of species being chosen from within local communities including endangered communities of the Sydney Turpentine-Ironbark Forest and Swamp-oak Floodplain Forest that are endemic to the area around Wentworth Point and Sydney Olympic Park.

Specialised planting has also been incorporated for the use on a green roof and the edible garden. Within these groupings there are native and endemic species that can contribute to education within the school and local community, such as the inclusion of native food sources within the edible garden.

The current scheme sits at 92% native species with 73% endemic to the local area excluding specialised planting for the productive garden

N = Native
CS = Endemic to Coastal Saltmarsh
TI = Endemic to Sydney Turpentine-Ironbark Forest
SF = Endemic to Swamp-oak Floodplain Forest
E = Exotic

* Appears in multiple locations

STREET INTERFACE

Street Trees					
	<i>Botanic name</i> <i>Common name</i>	<i>Mature HxW(m)</i>		<i>Pot</i>	<i>/m²</i>
Burroway Road					
1	<i>Cupaniopsis anarcardioides</i> Tuckeroo (to match existing)	10 x 5	SF	400 L	
2	<i>Platanus 'Digitata'</i> Plane Tree (match existing)	15 x 12	E	400 L	
Eastern Road					
3	<i>Melaleuca ericifolia</i> Swamp Paperbark	9 x 5	SF	400 L	
4*	<i>Callistemon salignus</i> Willow Bottlebrush	8 x 8	TI	400 L	
61	<i>Corymbia maculata</i> Spotted Gum	25 x 10	N	400 L	
Street Groundcovers					
5*	<i>Carpobrutus glaucescens</i> Pigface	0.3 x 1.5	N	200 mm	4
6	<i>Chrysocephalum apiculatum</i> Yellow Buttons	0.3 x 0.5	N	200 mm	4
7*	<i>Dianella caerulea</i> Flax Lily	0.4 x 0.4	TI SF	200 mm	4
8	<i>Lomandra longifolia 'Tanika'</i> Lomandra Tanika	0.5 x 0.5	TI SF	200 mm	4

BIODIVERSITY GREEN ROOF

Green Roof					
	<i>Botanic name</i> <i>Common name</i>	<i>Mature HxW(m)</i>		<i>Pot</i>	<i>/m²</i>
40*	<i>Carpobrutus glaucescens</i> Pigface	0.3 x 1.5	N	200 mm	4
41*	<i>Dichondra repens</i> Kidney Weed	0.1 x 0.4	TI	140 mm	12
42	<i>Goodenia hederacea</i> Forest Goodenia	0.2 x 0.8	TI	200 mm	8
43*	<i>Kennedia rubicunda</i> Dusky Coral Pea	0.2x 1	TI	140 mm	8
44	<i>Myoporum parvifolium</i> Creeping Myoporum	0.3 x 1.5	N	140 mm	8
45	<i>Oxalis exilis</i> Yellow Sorrel	0.1 x 0.3	TI	100 mm	12
46*	<i>Pratia purpurascens</i> Purplish Pratia	0.1 x 0.5	TI	140 mm	12
47*	<i>Viola banksii</i> Native Violet	0.1 x 0.3	SF	140 mm	12

WESTERN BOUNDARY

Large Trees					
	<i>Botanic name</i> <i>Common name</i>	<i>Mature HxW(m)</i>		<i>Pot</i>	<i>/m²</i>
9	<i>Eucalyptus paniculata</i> Grey Ironbark	25 x 15	TI	400 L	
10	<i>Syncapria glomulifera</i> Turpentine	16 x 8	TI	400 L	
Small Trees and Hedging					
11	<i>Acacia implexa</i> Hickory Wattle	10 x 6	TI	45L	
12	<i>Acacia longifolia</i> Golden Wattle	6 x 4	TI	45L	
13	<i>Allocasuarina torulosa</i> Rose She-oak	10 x 7	TI	45L	
14	<i>Casuarina glauca</i> Swamp She-oak	12 x 7	SF	45L	
15	<i>Kunzea ambigua</i> White Kunzea	3 x 2	TI	200 mm	
16	<i>Melaleuca 'Claret Tops'</i> Honey Myrtle	1.2 x 1	N	200 mm	
17	<i>Melaleuca decora</i> White Feather Myrtle	6 x 4	TI	45L	
18	<i>Waterhousea floribunda</i> Weeping Lilly Pilly	10 x 8	N	45L	

PRODUCTIVE GARDEN

Productive Garden					
	<i>Botanic name</i> <i>Common name</i>	<i>Mature HxW(m)</i>		<i>Pot</i>	<i>/m²</i>
48	<i>Aloysia triphylla</i> Lemon Verbena	3 x 3	E	45L	
49	<i>Citrus hystrix</i> Kaffir Lime	6 x 3	E	45L	
50	<i>Dwarf citrus</i> Dwarf Lemon	2 x 0.5	E	45L	
51	<i>Citrus australasica</i> Finger Lime	6 x 3	N	45L	
52	<i>Olea paniculata</i> Native Olive	10 x 5	N	45L	
53	<i>Pittosporum angustifolium</i> Gumbi gumbi	6 x 4	N	45L	
54	<i>Rubus parvifolius</i> Native Raspberry	2 x 1	TI	45L	
55	<i>Syzygium smithii</i> Lilly pilly	5 x 2.5	SF	45L	
56	<i>Brassica oleracea capitata</i> Red Cabbage	0.3 x 03	E	200 mm	
57	<i>Fragaria x ananassa</i> Strawberry	0.2 x 0.2	E	200 mm	
58	<i>Lycopersicon esculentum</i> Cherry Tomato	1 x 0.4	E	200 mm	
59	<i>Microseris lanceolata</i> Murnong	0.3 x 0.3	N	200 mm	
60	<i>Origanum vulgare</i> Oregano	0.5 x 0.4	E	200 mm	

CENTRAL COURTYARD

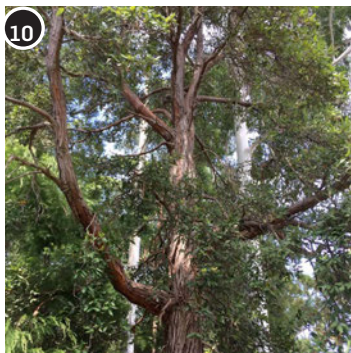
Small Trees					
	<i>Botanic name</i> <i>Common name</i>	<i>Mature HxW(m)</i>		<i>Pot</i>	<i>/m²</i>
19*	<i>Callistemon salignus</i> Willow Bottlebrush	8 x 8	TI	400 L	
20	<i>Elaeocarpus reticulatus</i> Blueberry Ash	10 x 4	TI	400 L	
21	<i>Tristaniopsis 'Luscious'</i> Water Gum	12 x 5	N	400 L	
22	<i>Pittosporum undulatum</i> Native Daphne	12 x 7	TI	400 L	
Feature Tree					
23	<i>Ficus rubiginosa</i> Port Jackson Fig	20 x 20	N	Ex Ground	
Grasses and Groundcovers					
24	<i>Blechnum indicum</i> Silver Lady Fern	0.9 x 1.2	SF	300 mm	2
25	<i>Crinum pedunculatum</i> Swamp Lily	1.5 x 1	SF	300 mm	2
26*	<i>Dianella caerulea</i> Flax Lily	0.4 x 0.4	TI SF	200 mm	4
27	<i>Hardenbergia violacea</i> Purple Coral Pea	0.5 x 2	TI	200 mm	4
28*	<i>Pratia purpurascens</i> Purple Pratia	0.2 x 0.5	TI	200 mm	8
Accent Planting & Shade					
29*	<i>Blechnum indicum</i> Silver Lady Fern	0.9 x 1.2	SF	300 mm	2
30*	<i>Dianella caerulea</i> Flax Lily	0.4 x 0.4	TI SF	200 mm	4
33	<i>Philodendron</i> Philodendron Xanadu	0.7 x 1	E	200 mm	4
34	<i>Sansevieria trifasciata</i> Mother in Laws Tongue	0.5 x 0.3	E	200 mm	8
Cascading & Edge Planting					
35*	<i>Dichondra repens</i> Kidney Weed	0.1 x 0.5	TI	140 mm	8
36	<i>Dichondra agrentea</i> Silver Falls	0.1 x 0.5	E	140 mm	8
37	<i>Viola banksii</i> Native Violet	0.1 x 0.3	SF	140 mm	12
Climbers					
38	<i>Kennedia rubicunda</i> Dusky Coral Pea	0.2 x 1	TI	140 mm	8
39	<i>Pandorea pandorana</i> Wonga Wonga Vine	0.3 x 1.5	TI	140 mm	8

15.0 INDICATIVE PLANT SPECIES

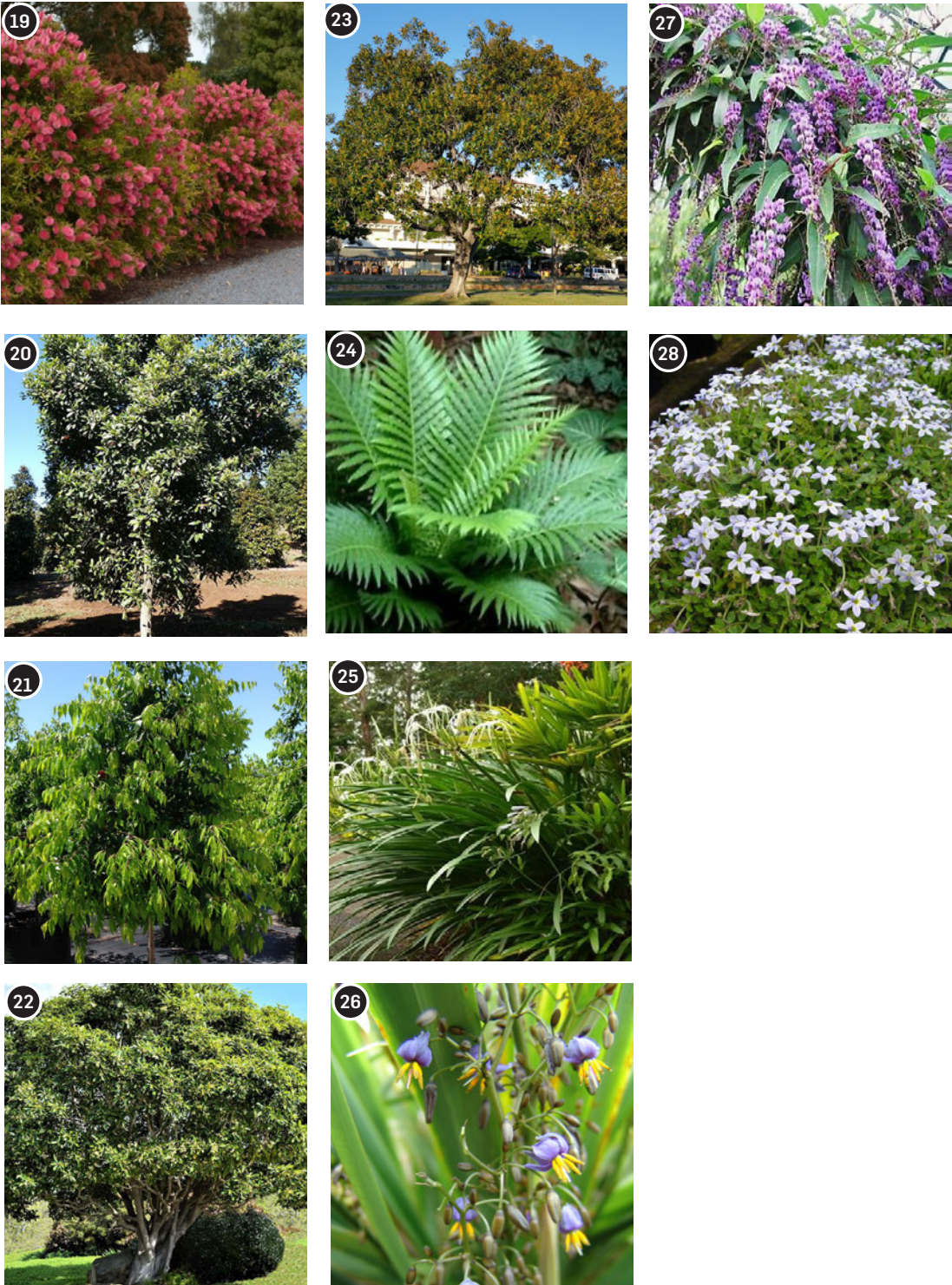
STREETSCAPE



WESTERN BIODIVERSITY CORRIDOR



CENTRAL COURTYARD



ACCENT / EDGE PLANTING



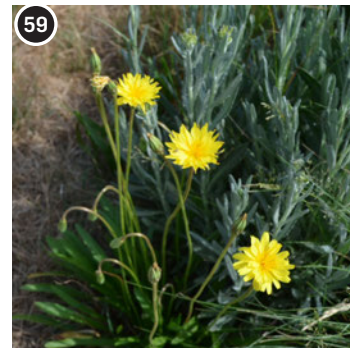
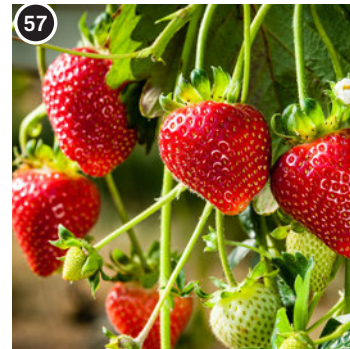
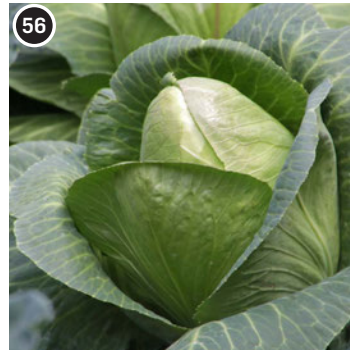
CLIMBERS



GREEN ROOF



EDIBLE GARDEN





LANDSCAPE PLANS

SYDNEY OLYMPIC PARK NEW HIGH SCHOOL

7-11 BURROWAY ROAD, WENTWORTH POINT NSW 2127



Level 14, The Quadrant, 1 William Street | Perth
WA 6000 Australia | +61 8 9346 0500
URBIS Pty Ltd | ABN 50 105 256 228

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DRAWING REGISTER		
DRAWING NUMBER	DRAWING NAME	REVISION
L000	COVER SHEET	B
L001	PLANT SCHEDULE	B
L201	FINISHES PLAN	B
L221	FINISHES PLAN	B
L501	PLANTING PLAN	B
L521	PLANTING PLAN	B
L801	DETAIL SECTION	B
L802	DETAIL SECTION	B

LEGEND

GENERAL

- SITE BOUNDARY
- EXISTING TREES TO BE REMOVED
- PROPOSED TREES
- SPOT LEVELS
- AR01: SCULPTURAL SHADE ARBOR STRUCTURE
- AR02: NORTH SOUTH ARBOR STRUCTURE
- STORMWATER PITS TO ENGINEERS DETAIL
- DR01: GRATED DRAIN TO ENGINEERS DETAIL
- EXTENT OF OSD TANK TO ENGINEERS DETAIL
- SWALE LOCATION

PAVEMENT TYPES

- PA01: TOPPING CONCRETE SLAB
- PA02: INSITU CONCRETE
- PA03: SPORTS COURTS SURFACE PAINT
- PA04: INSITU CONCRETE COLOUR OXIDE
- PA05: RUNNING TRACK SURFACE PAINT
- PA06: FEATURE GRAPHICS SURFACE PAINT
- PA07: PUBLIC DOMAIN FOOTPATH
- PA09: POROUS PAVEMENT
- PA10: TREE PIT POROUS PAVEMENT
- TA01: TACTILE INDICATORS

PLANTING TYPES

- TU1: NATURAL TURF FREE PLAY AREAS
- GA01: GARDEN BED PLANTING
- GA02: BIODIVERSITY ROOF
- GA03: FIRST NATIONS VEGGIE GARDEN
- GA04: GARDEN BED PLANTING

FENCE AND GATE TYPES

- FE01: 2.1m HIGH CENTRAL FENCE
- FE02: 2.4m HIGH SPORTS FIELD/ COURTS FENCE
- FE03: 1.2m HIGH SPORTS FIELD FENCE
- FE04: 2.1m HIGH DEMOUNTABLE FENCE
- FE05: 7m HIGH BARRIER FENCE
- GT01: 2.4m HIGH DOUBLE GATE
- GT02: 2.1m HIGH SINGLE GATE
- GT03: SWING/SLIDING GATE TO ARCHITECTS DETAIL
- GT04: 1.2m HIGH DOUBLE GATE

FURNITURE TYPES

- FU1A: FREESTANDING FURNITURE
- FU1B: FREESTANDING FURNITURE
- FU1C: FREESTANDING FURNITURE
- FU02: FREESTANDING FURNITURE
- FU03: TABLE TENNIS
- FU04: TREE PLANTER
- FU05: TIMBER SEATING
- FU6A: TIMBER SCULPTURAL SEATING BENCH TYPE A
- FU6B: TIMBER SCULPTURAL SEATING BENCH TYPE B BACKREST
- FU07: BICYCLE RACKS
- FU08: BICYCLE RACKS
- FU09: BASKETBALL + NETBALL HOOP
- FU10: SCOOTER RACKS
- FU11: SPORTS FIELD GOALS

- FU12: SPORTS FIELD CORNER POSTS

WALLS AND EDGES

- WA01: WALL TYPE 1 CONCRETE SEATING WALL
- HA01: HANDRAIL TYPE 1

LIGHTING TYPES

- LI01: EXISTING STREET POLE LIGHTING
- LI02: PROPOSED STREET POLE LIGHTING

REV	DESCRIPTION	DWN	CHK	DATE
B	SSDA RTS	YV	MK	25/02/2021
A	SSDA RTS	YV	MK	09/12/2021

PROJECT NAME & ADDRESS
SYDNEY OLYMPIC PARK
NEW HIGH SCHOOL

PROJECT DIRECTOR: MK

DRAWING TITLE
COVER SHEET

ISSUE
SSDA

PROJECT NO.
P0033179

SCALE

DRAWING NO.
L000

REVISION
B



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WA 6000 Australia | +61 8 9346 0500
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REV	DESCRIPTION	DWN	CHK	DATE
B	SSDA RTS	YV	MK	25/02/2021
A	SSDA RTS	YV	MK	09/12/2021

PROJECT NAME & ADDRESS
SYDNEY OLYMPIC PARK
NEW HIGH SCHOOL

PROJECT DIRECTOR: MK

DRAWING TITLE
PLANT SCHEDULE

ISSUE	PROJECT NO.
SSDA	P0033179

SCALE

DRAWING NO.	REVISION
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L001

B

GROUND FLOOR PLANT SCHEDULE

TREES

KEY	BOTANIC NAME	COMMON NAME	SIZE	POT	SPACING	QTY.
ACA lon	Acacia longifolia	Golden Wattle	6m x 10m	45L	AS SHOWN	7
CAL sal	Calistemon salignus	Willow Bottlebrush	8m x 8m	400L	AS SHOWN	3
CIT aus	Citrus australasia	Finger Lime	6m x 3m	45L	AS SHOWN	2
COR mac	Corymbia maculata	Spotted Gum	25m x 10m	400L	AS SHOWN	10
CUP ana	Cupaniopsis anarcardioides	Tuckeroo	10m x 5m	400L	AS SHOWN	28
ELA ret	Elaeocarpus reticulatus	Blueberry Ash	10m x 5m	400L	AS SHOWN	6
FIC rub	Ficus rubigonosa	Port Jackson Fig	14m x 12m	Ex Ground	AS SHOWN	1
MEL dec	Melaleuca decora	White Feather Myrtle	6m x 4m	45L	AS SHOWN	5
MEL eri	Melaleuca ericifolia	Swamp Paperbark	9m x 5m	400L	AS SHOWN	11
OLE pan	Olea paniculata	Native Olive	10m x 5m	45L	AS SHOWN	1
PIT ang	Pittosporum angustifolium	Gumbi Gumbi	6m x 4m	45L	AS SHOWN	1
PIT und	Pittosporum undulatum	Native Daphne	12m x 7m	400L	AS SHOWN	3
TRI lus	Tristaniopsis 'Luscious'	Water Gum	15m x 7m	400L	AS SHOWN	3

SHRUBS

KEY	BOTANIC NAME	COMMON NAME	SIZE	POT	SPACING	QTY.
ATR num	Atriplex nummularia	Old Man Saltbush	1.5m x 1m	200mm	500 mm	5
BLE ind	Blechnum indicum	Silver Lady Fern	0.9m x 1.2m	300mm	500 mm	241
CHA unc	Chamelaucium uncinatum	Raspberry Ripple	1.5m x 1m	200mm	500 mm	5
CRI ped	Crinum pedunculatum	Swamp Lily	1.5m x 1m	200mm	500 mm	197
CYC rev	Cycas revoluta	Sago Palm	2m x 2m	200mm	500 mm	54
KUN amb	Kunzea ambigua	White Kunzea	3m x 2m	200mm	580 mm	130
MEL cla	Melaleuca 'Claret Tops'	Honey Myrtle	1.2m x 1m	200mm	500 mm	181
PHI xan	Philodendron 'Xanadu'	Philodendron Xanadu	0.7m x 1m	200mm	500 mm	112
PRO rot	Prostanthera rotundifolia	Native Oregano	2m x 1m	200mm	500 mm	5
RUB par	Rubus parvifolius	Native Raspberry	2m x 1m	200mm	500 mm	11
SYZ smi	Syzgium smithii	Lilli Pilli	5m x 2.5m	45L	580 mm	228
VIO ban	Viola banksii	Native Violet	0.1m x 0.3m	140mm	290 mm	282

GROUNDCOVERS

KEY	BOTANIC NAME	COMMON NAME	SIZE	POT	SPACING	QTY.
BRA cap	Brassica oleracea capitata	Red Cabbage	0.3m x 0.3m	200mm	290 mm	37
CAR gla	Carpobrutus glaucescens	Pigface	0.3m x 1.5m	200mm	410 mm	51
CHR api	Chrysocephalum apiculatum	Yellow Buttons	0.3m X 0.5m	200mm	410 mm	51
DIA cae	Dianella caerulea	Flax Lily	0.4m x 0.4m	200mm	410 mm	360
DIC rep	Dichondra repens	Kidney Weed	0.1m x 0.5m	140mm	350 mm	131
FRA ana	Fragaria x ananassa	Strawberry	0.2m x 0.2m	200mm	290 mm	19
GOO hed	Goodenia hederacea	Forest Goodenia	0.2m x 0.8m	200mm	350 mm	97
HAR vio	Hardenbergia violacea	Native sarsaparilla	1m x 1.5m	200mm	410 mm	190
KEN rub	Kennedia rubicunda	Dusky Coral Pea	0.2m x 1m	140mm	350 mm	57
LOM tan	Lomandra 'Tanika'	Lomandra Tanika	0.5m x 0.5m	200mm	410 mm	329
LYC esc	Lycopersicon esculentum	Cherry Tomato	1m x 0.4m	200mm	410 mm	9
MIC lan	Microseris lanceolata	Murnong	0.3m x 0.3m	200mm	290 mm	20
MYO par	Myoporum parvifolium	Creeping Myoporum	0.3m x 1.5m	140mm	350 mm	84
ORI vul	Origanum vulgare	Oregano	0.5m x 0.4m	200mm	410 mm	10
PAN pan	Pandorea pandorana	Wonga Wonga Vine	0.3m x 1.5m	140mm	350 mm	88
PRA pur	Pratia purpurascens	Purple Pratia	0.2m x 0.5m	140mm	350 mm	134
RUB ida	Rubus idaeus	Thornless Raspberry	0.8m x 0.4m	200mm	410 mm	8
SAN tri	Sansevieria trifasciata	Mother in Laws Tongue	0.5m x 0.3m	200mm	350 mm	157

LEVEL 2 ROOFTOP PLANT SCHEDULE

BIODIVERSITY GREEN ROOF

KEY	BOTANIC NAME	COMMON NAME	SIZE	POT	SPACING	QTY.
CAR gla	<i>Carpobrotus glaucescens</i>	Pigface	0.3m x 1.5m	140mm	350 mm	240
DIC rep	<i>Dichondra repens</i>	Kidney Weed	0.1m x 0.5m	140mm	350 mm	360
GOO hed	<i>Goodenia hederacea</i>	Forest Goodenia	0.2m x 0.8m	140mm	350 mm	360
KEN rub	<i>Kennedia rubicunda</i>	Dusky Coral Pea	0.2m x 1m	140mm	350 mm	360
MYO par	<i>Myoporum parvifolium</i>	Creeping Myoporum	0.3m x 1.5m	140mm	350 mm	240
OXA exi	<i>Oxalis exilis</i>	Yellow Sorrel	0.1m x 0.3m	140mm	350 mm	240
PRA pur	<i>Pratia purpurascens</i>	Purple Pratia	0.2m x 0.5m	140mm	350 mm	360
VIO ban	<i>Viola banksii</i>	Native Violet	0.1m x 0.3m	140mm	350 mm	240

B	SSDA RTS	YV	MK	25/02/2021
A	SSDA RTS	YV	MK	09/12/2021
REV	DESCRIPTION	DWN	CHK	DATE

PROJECT NAME & ADDRESS
**SYDNEY OLYMPIC PARK
NEW HIGH SCHOOL**

PROJECT DIRECTOR: MK

DRAWING TITLE
**FINISHES PLAN
GROUND FLOOR**

ISSUE

SSDA

SCALE

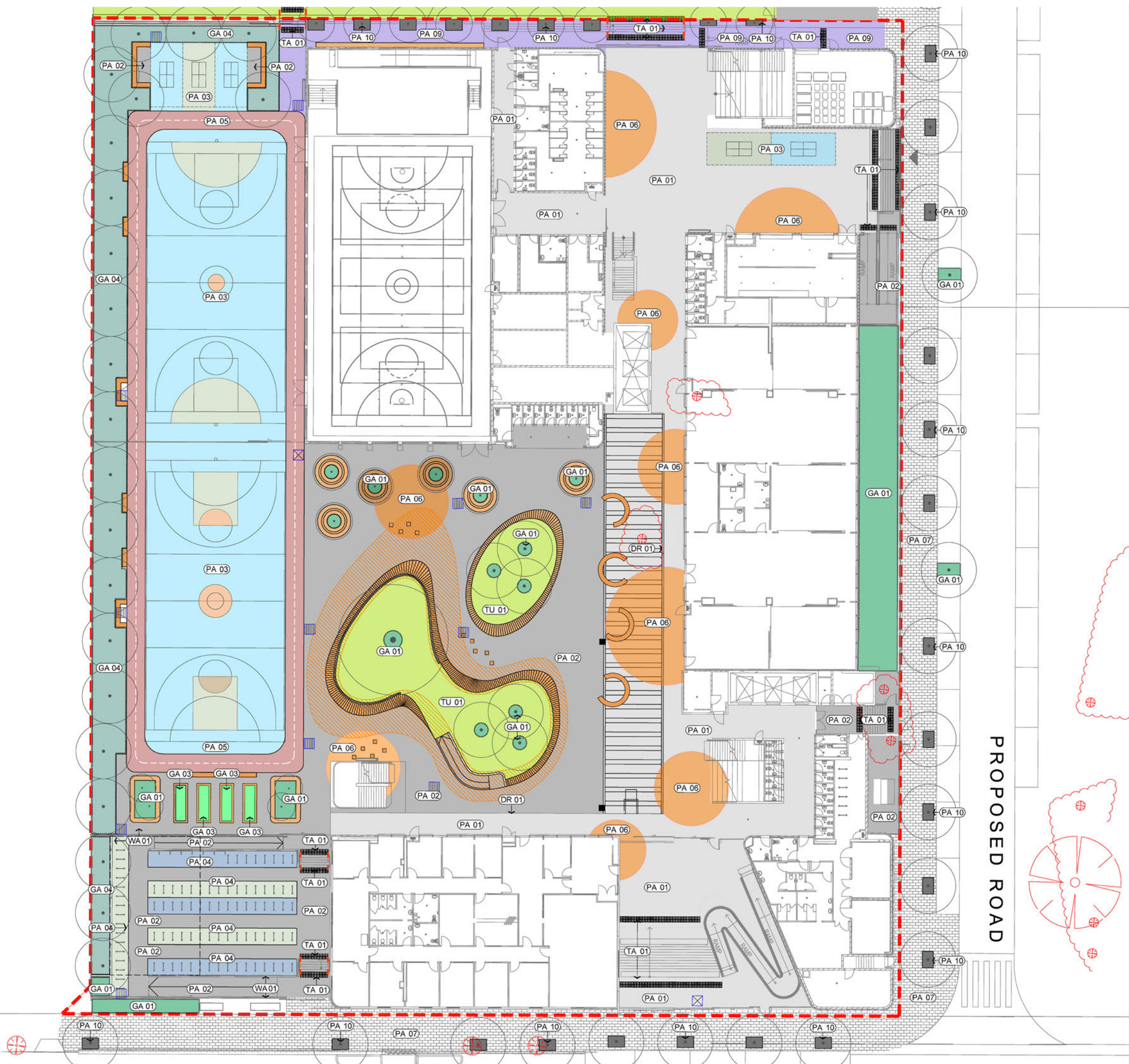
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DRAWING NO.

L201

PROJECT NO.
P0033179

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KEY PLAN

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B	SDDA RTS	YV	MK	25/02/2021
A	SDDA RTS	YV	MK	09/12/2021
REV	DESCRIPTION	DWN	CHK	DATE

PROJECT NAME & ADDRESS

SYDNEY OLYMPIC PARK
NEW HIGH SCHOOL

PROJECT DIRECTOR: MK

DRAWING TITLE
FINISHES PLAN
LEVEL 2

ISSUE	PROJECT NO.
SSDA	P0033179

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L221 B



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B	SSDA RTS	YV	MK	25/02/2021
A	SSDA RTS	YV	MK	09/12/2021
REV DESCRIPTION				DWN CHK DATE

PROJECT NAME & ADDRESS
**SYDNEY OLYMPIC PARK
NEW HIGH SCHOOL**

PROJECT DIRECTOR: MK

DRAWING TITLE
**PLANTING PLAN
GROUND FLOOR**

ISSUE
SSDA

SCALE

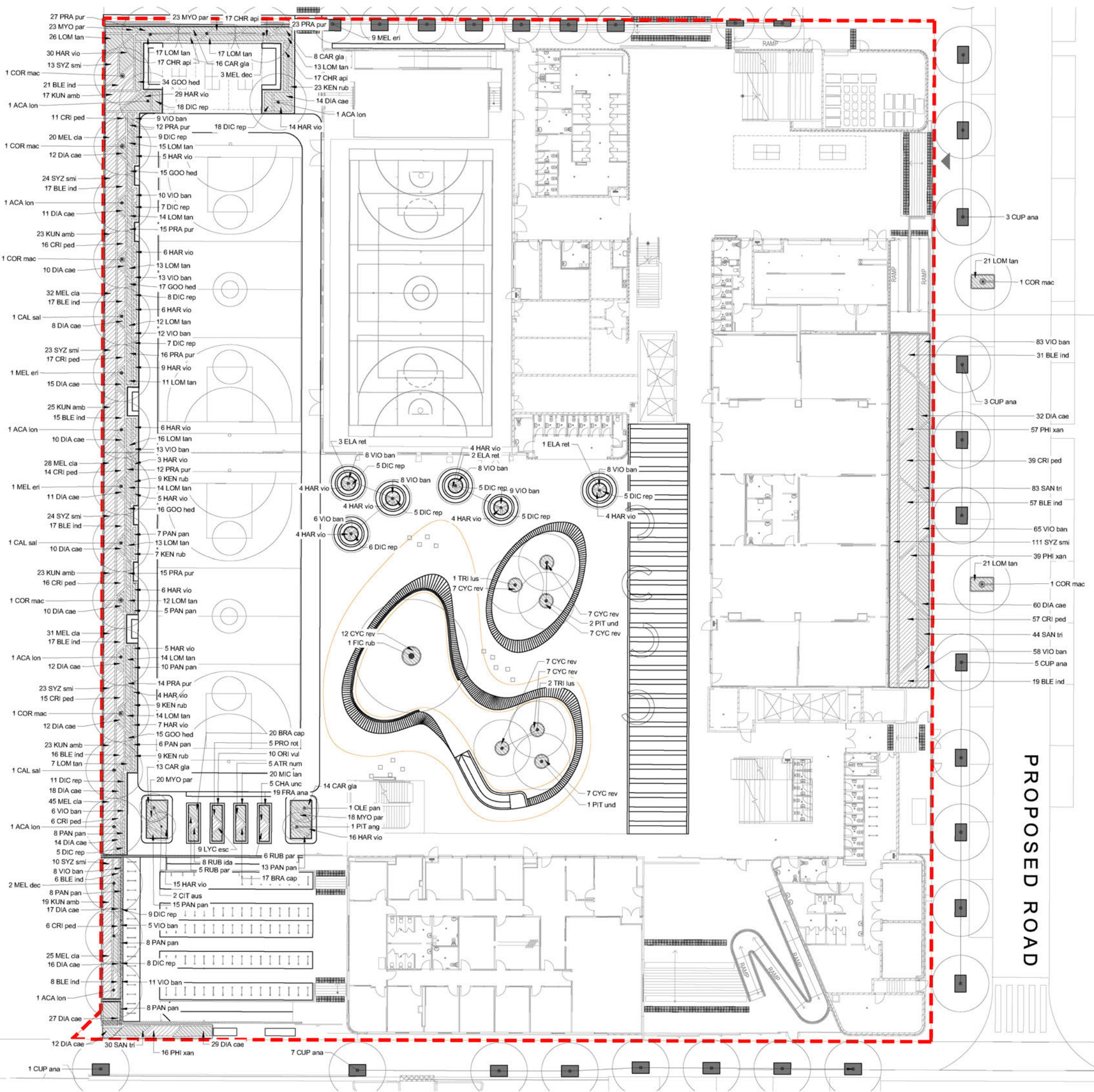
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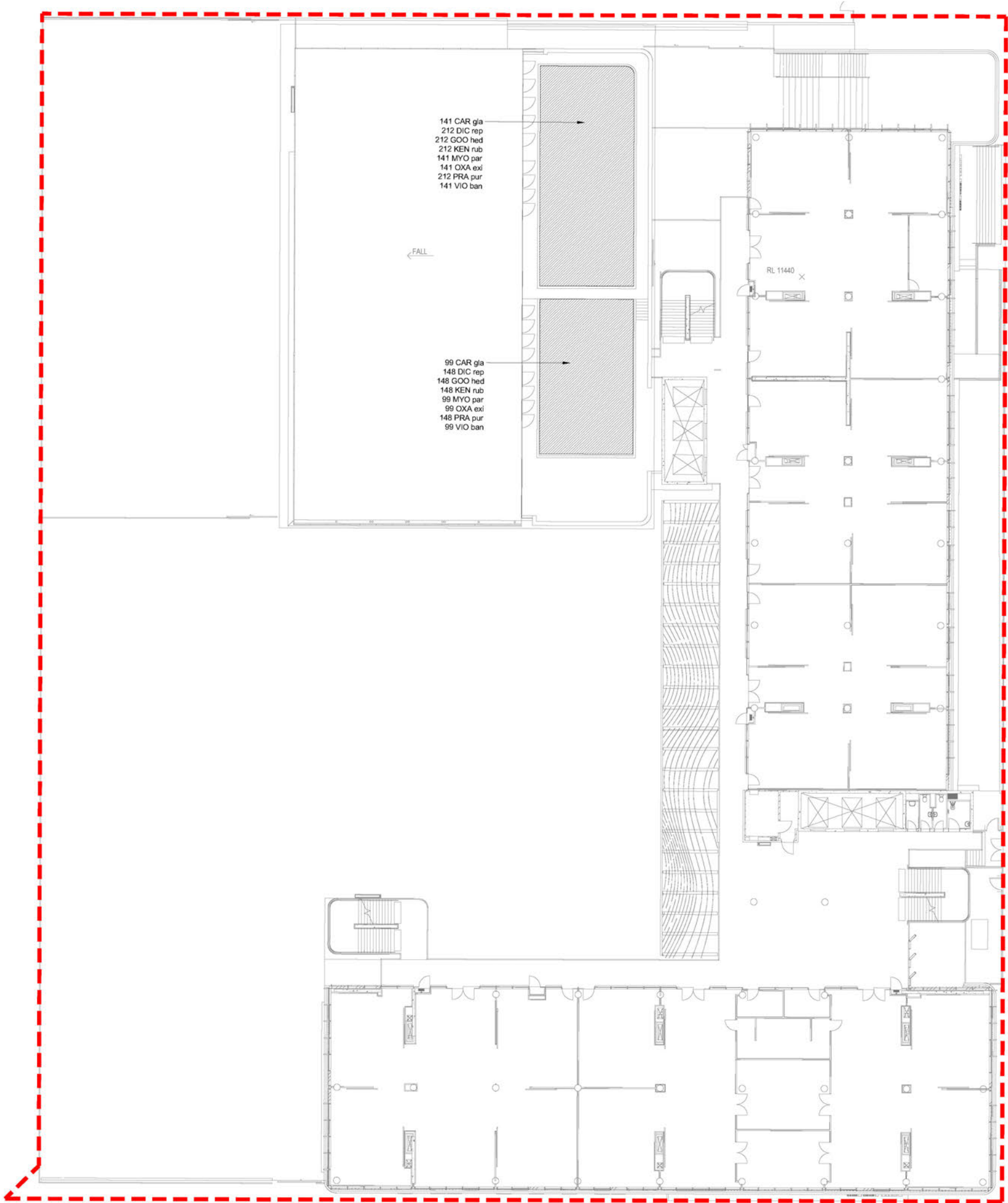
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PLOTTED BY: YEN VU

PLOT DATE: 25.02.2022

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B	SSDA RTS	YV	MK	25/02/2021
A	SSDA RTS	YV	MK	09/12/2021
REV	DESCRIPTION	DWN	CHK	DATE

PROJECT NAME & ADDRESS
**SYDNEY OLYMPIC PARK
NEW HIGH SCHOOL**

PROJECT DIRECTOR: MK

DRAWING TITLE
**PLANTING PLAN
LEVEL 2**

ISSUE
SSDA

PROJECT NO.
P0033179

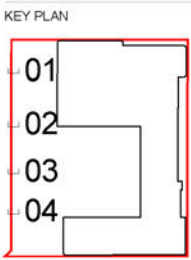
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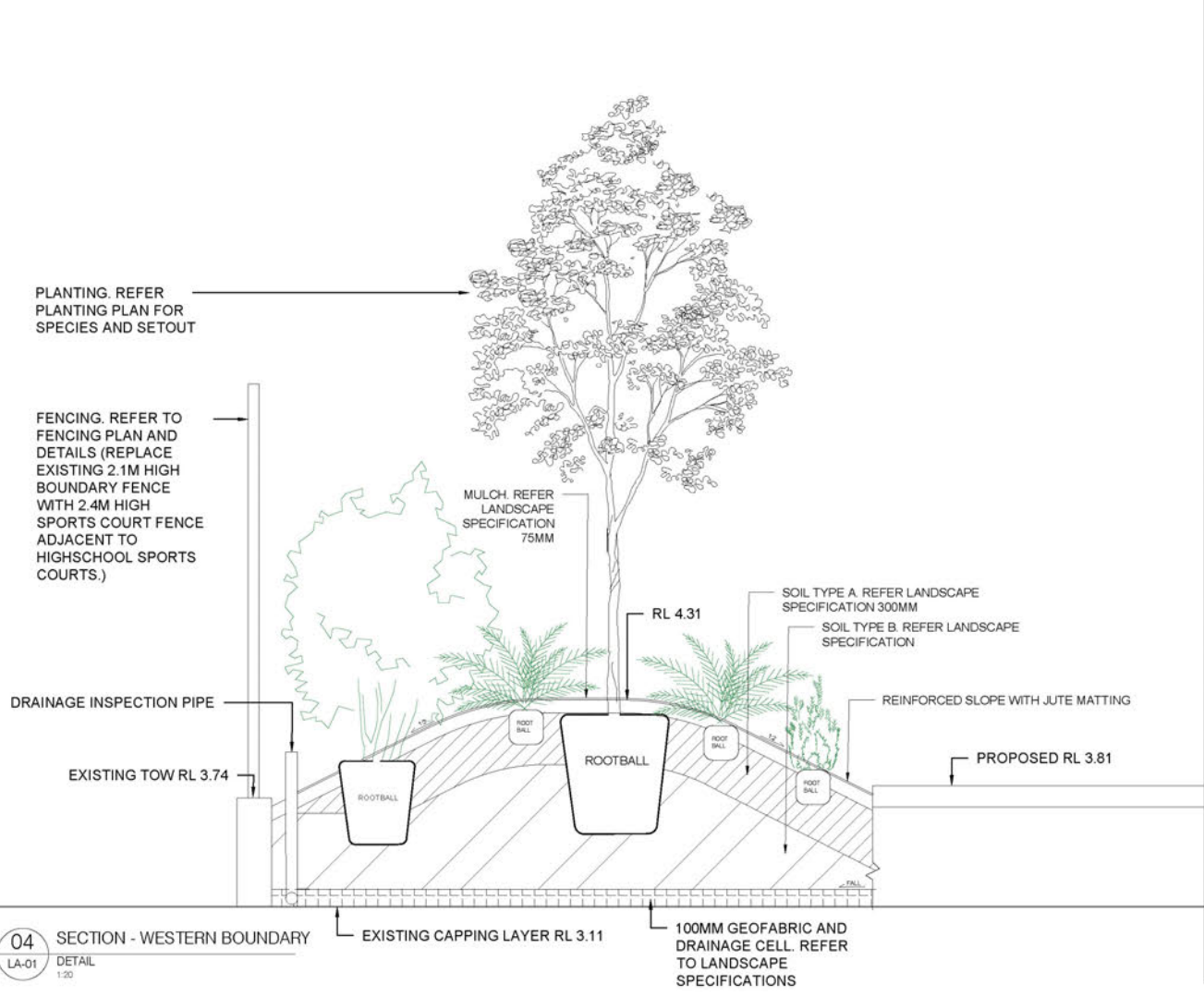
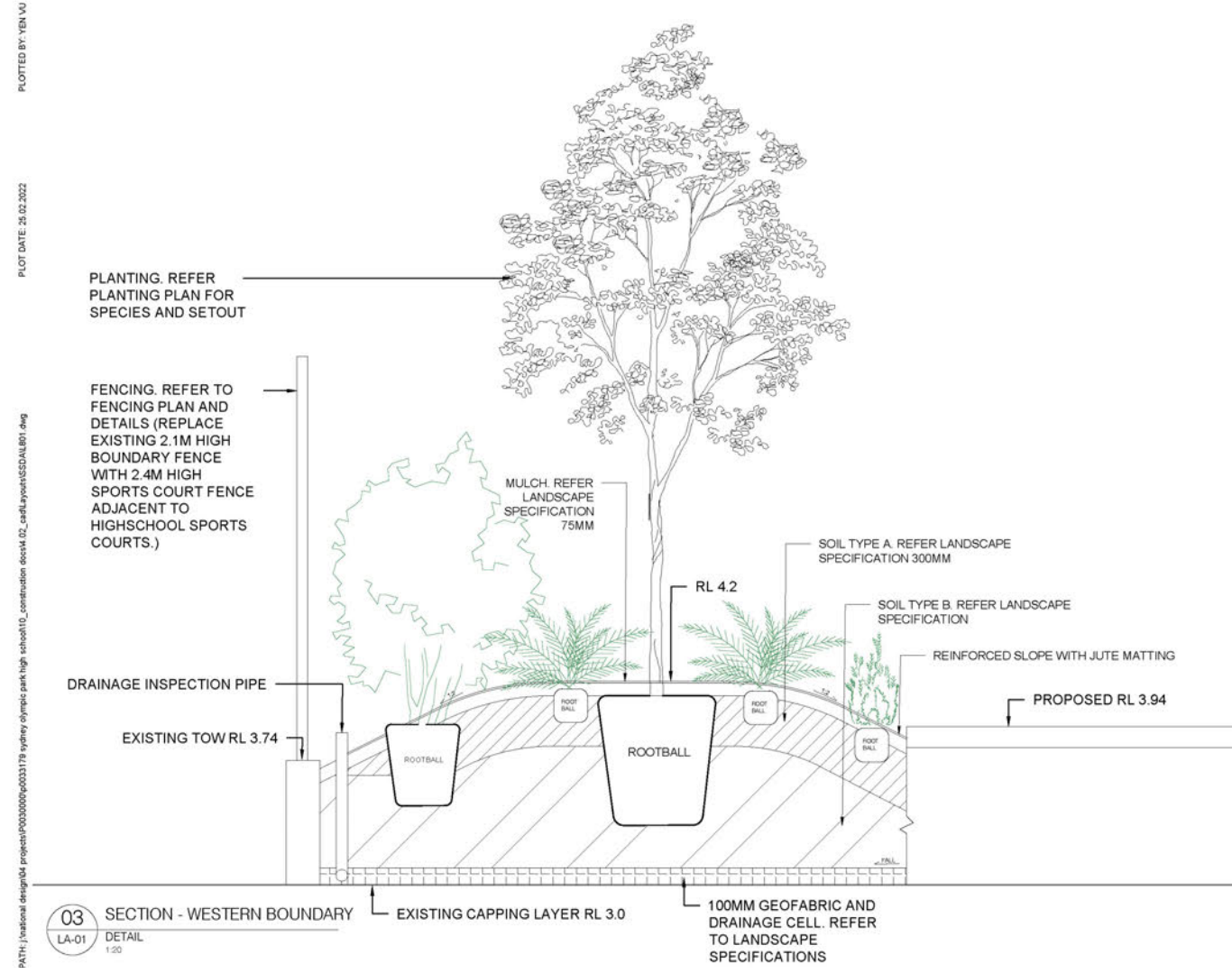
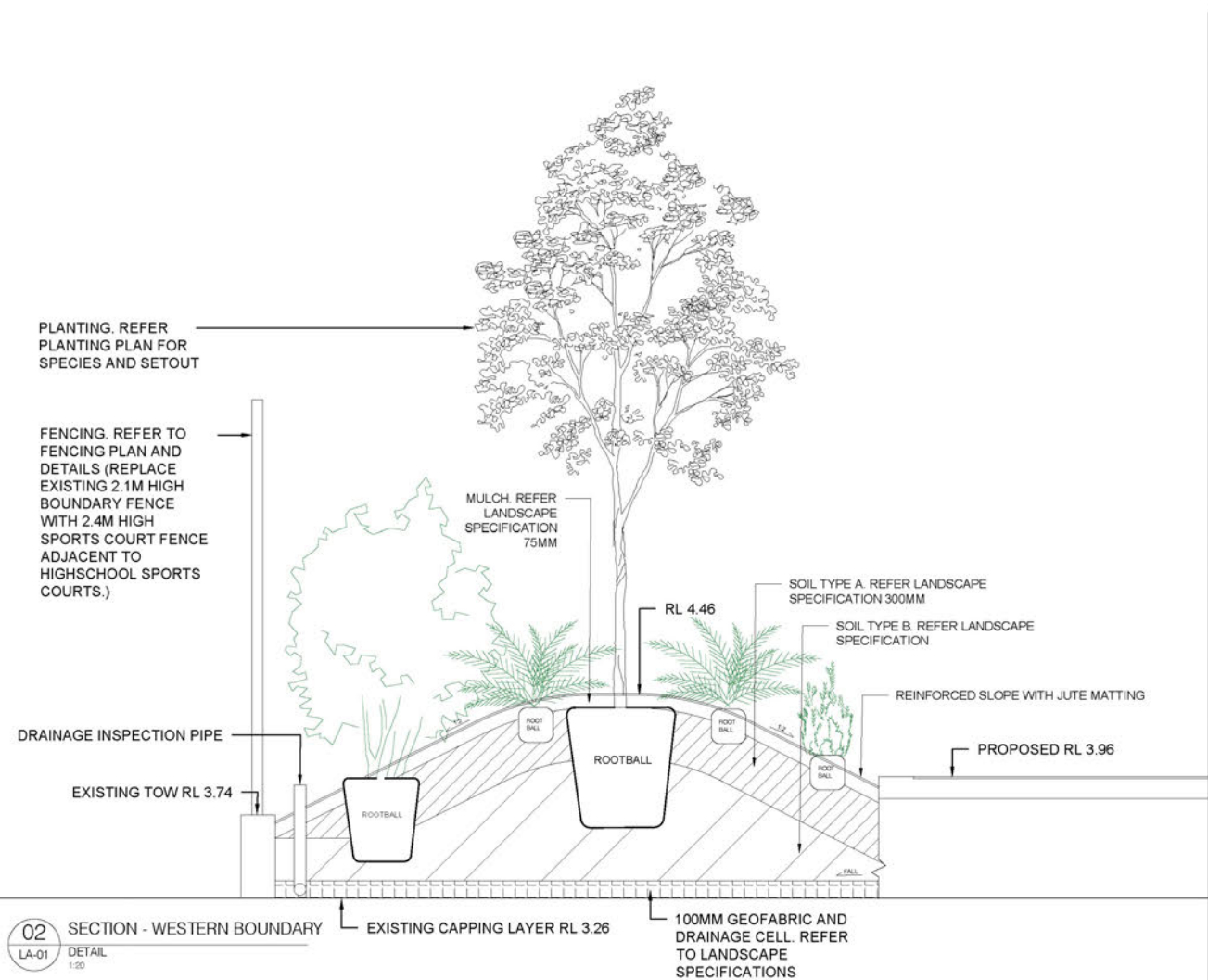
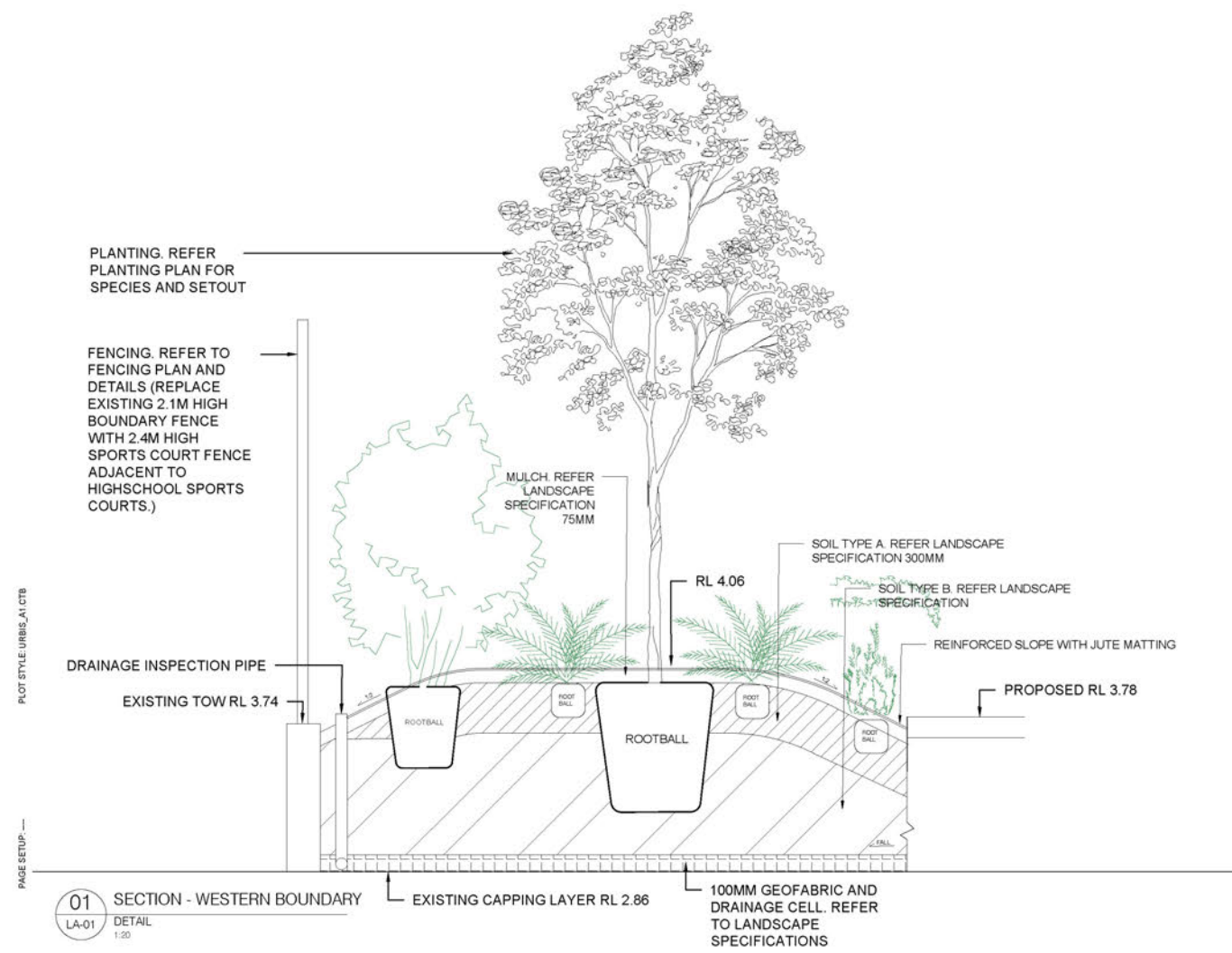
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B	SSDA RTS	YV	MK	25/02/2021
A	SSDA RTS	YV	MK	09/12/2021
REV	DESCRIPTION	DWN	CHK	DATE

PROJECT NAME & ADDRESS
**SYDNEY OLYMPIC PARK
NEW HIGH SCHOOL**

PROJECT DIRECTOR: MK

DRAWING TITLE
**DETAIL SECTION
WESTERN BOUNDARY**

ISSUE
SSDA

PROJECT NO.
P0033179

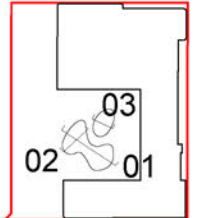
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DRAWING NO.
L801

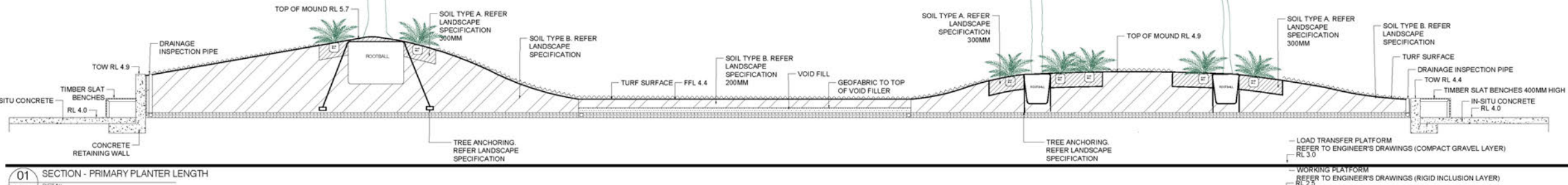
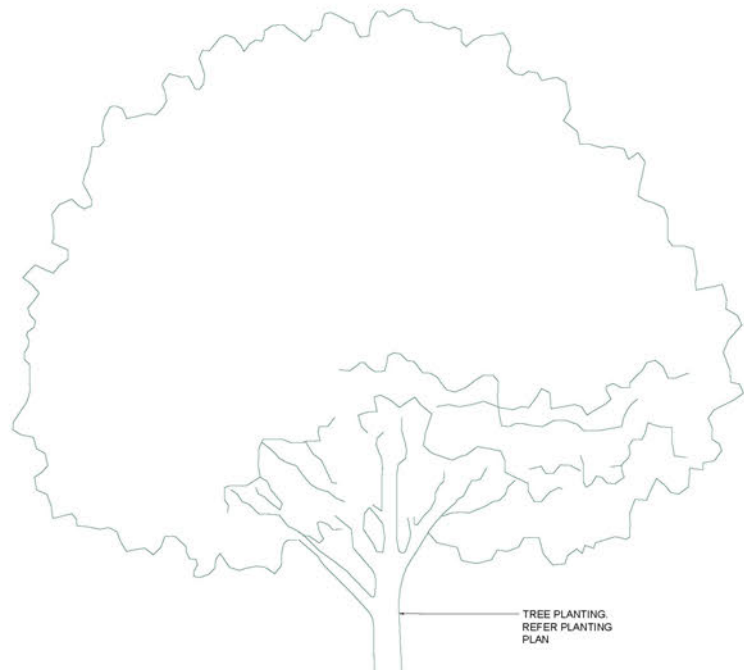
REVISION
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KEY PLAN

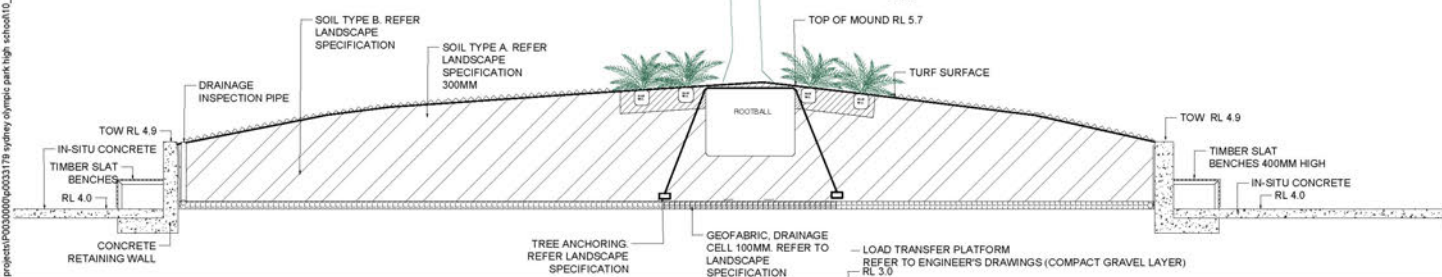
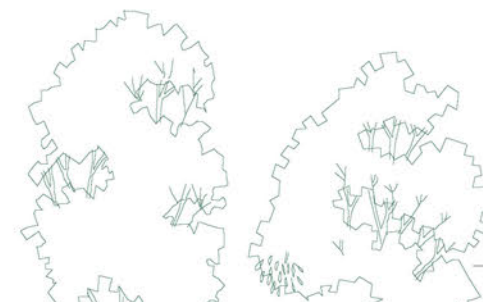
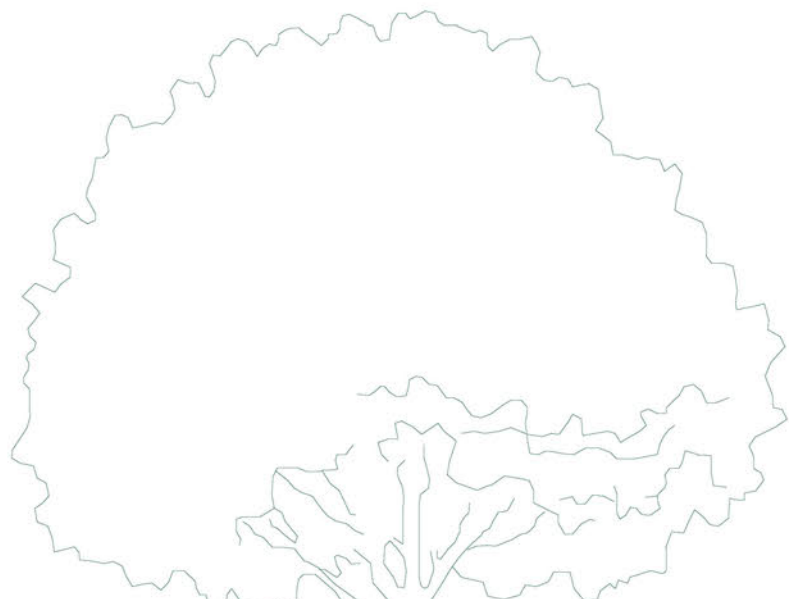


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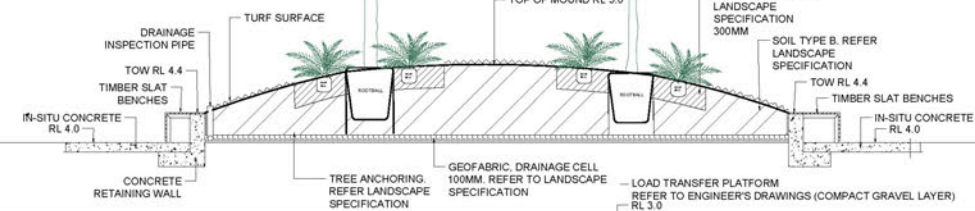
01 SECTION - PRIMARY PLANTER LENGTH

01 SECTION - PRIMARY PLANTER LENGTH



02 SECTION - PRIMARY PLANTER WIDTH

02 SECTION - PRIMARY PLANTER WIDTH



03 SECTION - SECONDARY PLANTER

03 SECTION - SECONDARY PLANTER

B	SSDA RTS	YV	MK	25/02/2021
A	SSDA RTS	YV	MK	09/12/2021
REV	DESCRIPTION	DWN	CHK	DATE

PROJECT NAME & ADDRESS
**SYDNEY OLYMPIC PARK
NEW HIGH SCHOOL**

PROJECT DIRECTOR: MK

DRAWING TITLE
**DETAIL SECTION
CENTRAL COURTYARD**

ISSUE
SSDA

PROJECT NO.
P0033179

SCALE
1:50 @ A1
1:100 @ A3

DRAWING NO.
L802

REVISION
B



APPENDICES

SDRP Comments on Reference Scheme by GroupGSA (note – the responses provided are by Urbis in relation to the current proposal. Although the comments were directed towards a different scheme, most are still valid).

SDRP Comments	Urbis' Response
Planting palettes -provide a palette that represents a living connection to Country, for example including species from the local salt marsh ecology. Incorporate this palette at active and passive outdoor learning spaces.	<p>The Urbis planting selection for the site has been chosen to be sensitive of local ecosystems, with a majority of species being chosen from within local communities including endangered communities of the Sydney Turpentine-Ironbark Forest and Swamp-oak Floodplain Forest that are endemic to the area around Wentworth Point and Sydney Olympic Park.</p> <p>Specialised planting has also been incorporated for the use on a green roof and the edible garden. Within these groupings there are native and endemic species that can contribute to education within the school and local community, such as the inclusion of native food sources within the edible garden.</p>
<p>Ecological healing and restoration – these ambitions are not evident in the concept design. Integrate ecological aspirations with a project-wide approach to connecting with Country. The following opportunities are recommended for their capacity to make manifest the attributes of Country:</p> <ul style="list-style-type: none"> - Plant species that support and restore local bio-diversity and ecology - The site's use and treatment of water. 	<p>See above response.</p> <p>The intention is the local plant communities including endangered plant communities are incorporated into the sitewide planting design.</p> <p>Water Treatment Strategies include:</p> <ul style="list-style-type: none"> - Water Sensitive Urban Design (WSUD) principals have been realised into the landscape design in a way that celebrates a sustainable water cycle. - Water Sensitive Urban Design (WSUD) principles have been realised into the landscape design in a way that celebrates a sustainable water cycle. - Where possible storm water runoff will be directed to the lawn and garden beds and - Rainwater tanks will be provided for irrigation. Irrigation will be provided to all soft landscape areas and will be specified within the tender package.

SDRP Comments on Current Proposal

SDRP Comments	Urbis' Response
Country	
2. Planting - Expand the use of endemic Indigenous plants beyond the single First Nations productive garden to be throughout the site. This is an opportunity for the landscape to be part of the pedagogy.	Endemic and indigenous species have been included into the planting palette, the intention is these species are incorporated into the overall sitewide planting design (not just the productive garden).
3. Green roof - Integrate endemic and Indigenous plants into the green roof and consider enabling monitored access to this area so that it can become part of the school.	Endemic and indigenous species have been included into the rooftop planting palette that can contribute to education within the school.
Landscape Strategy	
4. Communal courtyard – The practicality of using movable tree planters to create spatial flexibility is questioned and the creation of a sufficiently large outdoor gathering space is recommended.	<p>We have added a page that defines and describe the types of playground gathering spaces within the school grounds.</p> <p>We are providing a range of outdoor flexible gathering spaces for large, medium, and small gathering opportunities within the landscape design.</p> <p>The extra-large outdoor gathering spaces are provided to the multipurpose courts and between the internal gym and the adjacent external multipurpose sports court (refer to the playground gathering spaces diagram).</p> <p>The moveable tree planters have been replaced with permanent tree planters and seating benches/furniture to the northern edge of the central courtyard. These elements provide flexible spaces for small and medium size gatherings.</p>
5. Treecover - Provide detail on the proposed canopy cover percentage to provide comfort in relation to heat and other biophilic benefits.	<p>Within the site boundary the landscape design proposes a total of 38 new trees, offering a total green canopy cover of approximately 12%.</p> <p>The inclusion of architectural arbours and shade canopies increases this canopy cover to a total of 17%.</p> <p>Plus an additional 3% Ground Level COLA proposed by the architects.</p>

6. Planting palette – Provide more detail on plant selection at the next review.	<p>Refer to our Landscape Design Report for the Indicative Plant Schedule.</p> <p>Planting selection for the site has been chosen to be sensitive of local ecosystems, with a majority of species being chosen from within local communities including endangered communities of the Sydney Turpentine-Ironbark Forest and Swamp-oak Floodplain Forest that are endemic to the area around Wentworth Point and Sydney Olympic Park.</p> <p>Minimum soil depths are in accordance with both Council's and the 'Apartment Design Guide':</p> <ul style="list-style-type: none"> - Turf 200mm soil depth - Ground Cover 300-450mm soil depth - Shrubs 500-600mm soil depth - Small Trees (6-8m high) 800mm soil depth - Medium Trees (8-12m high) 1000mm soil depth - Large Trees (12-18m high) 1200-1500mm soil depth <p>All soil volumes are subject to review against tree species, location, desired effect and current industry best practice standards. An arborist or soil scientist will provide specific advice about the volume of soil that planting requires.</p>
Sustainability	
17. Green roofs – Consider the wider application of green roofs for the scheme, with particular focus on the increased efficacy of solar panels when combined with green roofs.	Refer to Architects report
Items to be provided	
1. A detailed landscape strategy including tree canopy cover and planting palette.	The landscape design strategy, confirmation of the tree canopy cover and planting palette have been provided in the landscape design report
3. Further development of considerations of Country particularly expansion of Indigenous planting and further integration of Aboriginal narratives in the building and built-form.	Endemic and indigenous species have been included into the planting palette, the intention is these species are incorporated into the overall sitewide planting design

