17 April 2020

Re: Moriah War Memorial College – Response to subissions
DISCIPLINE – Landscape Architecture
SUBJECT PREMISES – Moriah College, Queens Park Rd, Queens Park Sydney NSW
DEVELOPMENT REFFERENCE No.- SSD 10352 – Moriah College Redevelopment

To whom it may concern

We have been asked to review and respond to comments that were received from the NSW Department of Planning, Industry and Environment (DPIE) relating to the proposed redevelopment of Moriah College, Queens Park. In response a detailed letter and revised documents have been prepared to address items relating to landscape.

Detailed planting plans outlining specific garden zones and species have been prepared. The planting plans schedule the species, their size at installation and quantity. The planting selection has been revised to ensure a diversity of local native provenance species have been used from the relevant ESBS native vegetation community throughout the whole campus to improve local habitat and support endemic fauna. All previously listed species identified as invasive, including *Lampratnthus spectabilis* and *Thunbergia grandiflora* have been omitted.

The entrance fronting Baronga Avenue is largely a paved forecourt to support the daily function as the school's primary entrance and congregation. Additional gardens in this area are not practical and compromise the functionality of the main entrance. As a gateway to the school, the extent of paved forecourt is necessary, however this space is supported by a green roof to the entry gates providing gardens and planting with connection to the landscape buffer along Baronga Avenue. Additionally, increase landscape gardens have been provide to the roof and rear of the Early Learning Centre Building, identified to be composed predominantly of ESBS species.

A tree location plan has been prepared identifying species and locations across site for new tree planting. All trees have been scheduled, including nominating their size (a minimum of 100L). The species selection is represented by a majority of ESBS native trees. There remains a selection of exotic and broader native species to ensure the cross-cultural narrative of the school is clearly illustrated, including tree species significant to the Jewish community. The combination of local endemic, and culturally significant species supports the school's theological teachings, community contribution and ecological habitat. The locally endemic tree species dominate the interface with the adjoining banksia reserve and landscape treatment fronting Baronga Avenue and Queens Park, and their presence continues throughout the campus to strengthen the ecological network, interspersed with culturally significant species and regional natives.

An outline of landscape maintenance strategy and schedule of maintenance regime has been included in the revised documentation.

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Executed by,

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MCMSC, MORIAH COLLEGE
QUEENS PARK RD, QUEENS PARK, NSW 2022

LANDSCAPE DOCUMENTATION

AMENDED SSDA

DRAWING REGISTER

Dwg No.	Drawing Title	Size	Scale
General			
LA-DA-00	Cover Page + Drawing Schedule	A1	N/A
LA-DA-01	Introduction	A1	N/A
LA-DA-02	Landscape Principles	A1	N/A
LA-DA-03	Landscape Strategy	A1	N/A
LA-DA-04	Delivery Stages	A1	N/A
LA-DA-05	Security & Circulation Strategy	A1	N/A
LA-DA-06	Canopy Area Analysis	A1	N/A
LA-DA-07	Landscape Area Analysis	A1	N/A
LA-DA-08	Open Space Area Analysis	A1	N/A
LA-DA-09	Stage 1A - Landscape Masterplan	A1	1:500
LA-DA-10	Stage 1B - Landscape Masterplan	A1	1:500
LA-DA-11	Stage 2 - Landscape Masterplan	A1	1:500
LA-DA-12	Landscape Sections	A1	1:200
LA-DA-13	Central Lawn - Detailed Landscape Plan	A1	1:200
LA-DA-14	Central Lawn - Landscape Summary	A1	N/A
LA-DA-15	Active Courts - Detailed Landscape Plan	A1	1:200
LA-DA-16	Active Courts - Landscape Summary	A1	N/A
LA-DA-17	Reflection Gardens - Detailed Landscape Plan	A1	1:200
LA-DA-18	Reflection Gardens - Landscape Summary	A1	N/A
LA-DA-19	Building + Atrium Gardens - Detailed Landscape Plan	A1	1:200
LA-DA-20	Building + Atrium Gardens - Landscape Summary	A1	N/A
LA-DA-21	Cultural Narrative	A1	N/A
LA-DA-22	Lighting, Safety & Security	A1	N/A
LA-DA-23	Materials & Furniture	A1	N/A
LA-DA-24	Planting Character	A1	N/A
LA-DA-25	Planting Palette 01 - Lawns, Courts & Gardens	A1	N/A
LA-DA-26	Planting Palette 02 - Entries & New Building	A1	N/A
LA-DA-27	Planting Palette 03 - Stage 2, ESBS & Schedule	A1	N/A

LOCATION PLAN

NTS

ISS.	AMENDMENT	DATE	BY
A	DRAFT Landscape Masterplan	17.09.19	LB
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Moriah College
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Contractors shall locate and protect all services prior to construction.
Work shall be carried out in a professional manner and to all relevant Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
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L-DA-00

INTRODUCTION

The Moriah War Memorial College is an independent Modern Orthodox Jewish co-educational early learning, primary and secondary day school, located in Queens Park, an eastern suburb of Sydney, New South Wales, Australia. The college provides education from early learning through Kindergarten to Year 12.

This Landscape Masterplan Report has been prepared to guide the development of future landscape works and support the Architectural Masterplan and Urban Design Report Prepared by FJMT Architects. These documents have been prepared to support the school's core activities and guides the ongoing development of its unique environment which provides a memorable and positive learning, working and social experience for students, staff, alumni, family and guests of the college who visit the campus.

The needs of the school will continue to evolve over time, as reflected by strategic planning. It is important to provide a supporting physical plan that embraces a long term vision for the campus, with capacity to adapt to a changing academic environment.

It is also important to recognise and preserve the attributes of Moriah College that distinguish it as a unique place. The ongoing stewardship of the campus must balance retaining and preserving historically, environmentally, and culturally significant elements to maintain the schools identity and sense of place.

The intent of this document is to identify areas for consideration for new landscape works. This report has been structured to provide succinct comment that will be applicable to future external works. The objective is to establish a series of landscape guidelines and principles which will, in turn, inform the operational guidelines and the implementation through actual landscape projects.

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Use figured dimensions only.
Verify all dimensions on site before the commencement of any works.
Do not cover up any work until it has been inspected and approved.
All work shall be carried out in accordance with AUA, BCA and Local Government Regulations.
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L-DA-01

PRINCIPLE 1 - CREATE A SENSE OF COMMUNITY/ PLACE

A sense of place will be created by developing an environment that provides a unique and positive experience for everyone who uses the campus

The campus will be welcoming and will encourage a sense of belonging, while also enhancing the experience of learning, teaching and development. The campus's social and cultural amenities will support the school's inclusively.

PRINCIPLE 2 - CROSS CULTURAL NARRATIVE

It is important to recognise and preserve the attributes of Moriah College that distinguish it as a unique place. The ongoing development of the campus must balance retaining and preserving historically, environmentally, and culturally significant elements to maintain the schools identity and sense of place.

Preserving the heritage qualities and other assets that contribute To the understanding of cultural and historic significance is a primary objective. Incorporation of a cultural overlay within the landscape is critical to the educational platform of the landscape, including Indigenous, Australian and Jewish culture.

PRINCIPLE 3 - ACHIEVE ECOLOGICALLY SUSTAINABLE OUTCOMES

Moriah College has an opportunity to incorporate sustainability into its actions and practices, promoting a healthy workplace and campus for staff and students.

The campus will showcase environmentally sustainable design through environmental initiatives such as water sensitive urban design, managing and controlling runoff, encouraging the return of aerial and terrestrial wildlife through improved landscape habitat, and facilitate educational opportunities.

The campus will support the education of ecological sustainability, and facilitate active learning such as produce gardens, and visible water collection/treatment.

PRINCIPLE 4 - A FUNCTIONAL & CONNECTED SITE

The campus is readily accessible by public transport. The site will have a simple and legible pattern of open space that assists wayfinding. External spaces will respond to internal building function, and key sight lines and vistas will be maintained.

All modes of access will be appropriately designed to achieve equity and dignity.

PRINCIPLE 5 - SECURE & INVITING

The legibility of the campus relates to its overall spatial structure, particularly the pattern of open spaces and the clarity of the network of paths and entries that innately guide movement and orientation.

Clear connections between campus entrances and functional areas are fundamental. The development of a legible campus supports and improves the security and sense of safety for staff, students and visitors. Provision of clear sightlines, lighting and points of entries will improve passive surveillance of the campus and broader security.

PRINCIPLE 6 - LANDSCAPE FOR CURRICULUM

The landscape design will support the architectural scheme and the pedagogical ambition of the school to seamlessly integrate indoor and outdoor learning in support of the principal of biophilia.

A series of connected green spaces will offer a diversity of natural environments and opportunities for both free, unstructured play, as well as outdoor learning areas to support programmed classes. The distinctly green and connected campus will foster the development of smarter, more social, happier and healthier children.

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Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with Australian SDA and Local Government Regulations.
Stormwater Drainage shall be carried out in accordance with Hydraulic Engineer's Specifications.
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LANDSCAPE PRINCIPLES

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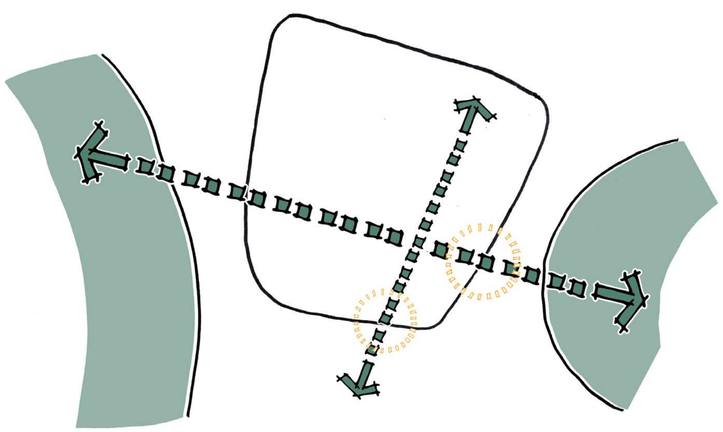
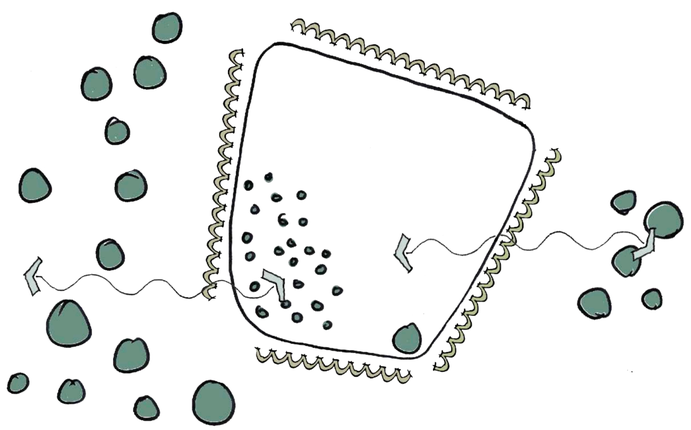
L-DA-02

CLARITY OF ENTRIES & MOVEMENT



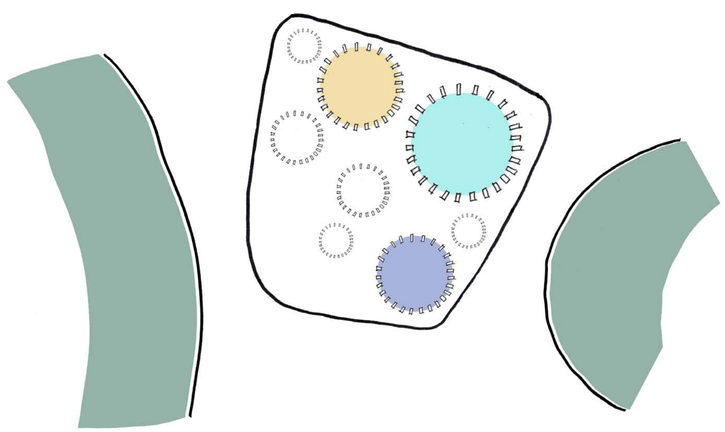
CLEAR ADDRESS AND ENTRIES
IMPROVED CIRCULATION / WAYFINDING
LEGIBLE PATTERN OF OPEN SPACE

SECURE & INVITING



SOFT + SECURE EDGES
CLEAR INVITING ENTRY
SENSE OF ARRIVAL
WELCOMING
CONNECTION TO SURROUNDING LANDSCAPE

INTEGRATED PLAY



PLAY INCORPORATED INTO ALL ELEMENTS
LANDSCAPE FOR CURRICULUM
CROSS CAMPUS APPROACH

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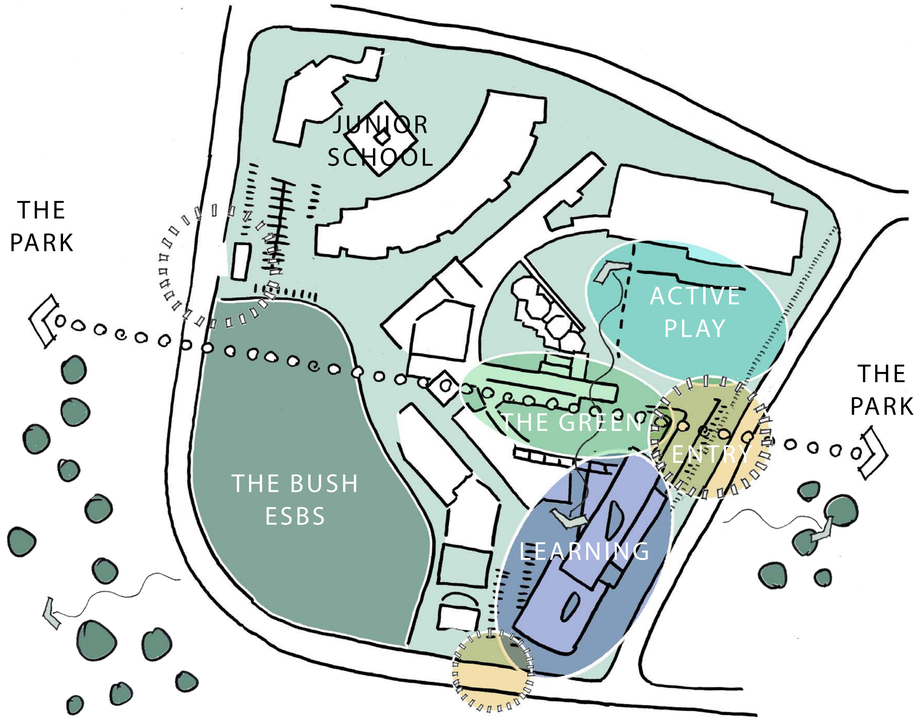
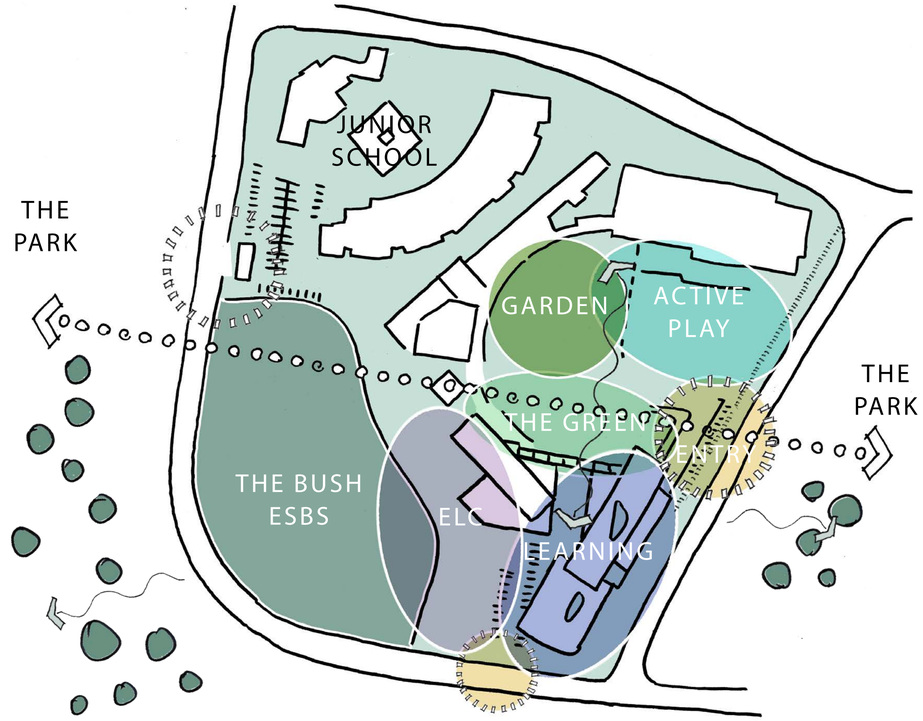
L-DA-03

STAGE 1



STAGE 2



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DELIVERY STAGES

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L-DA-04

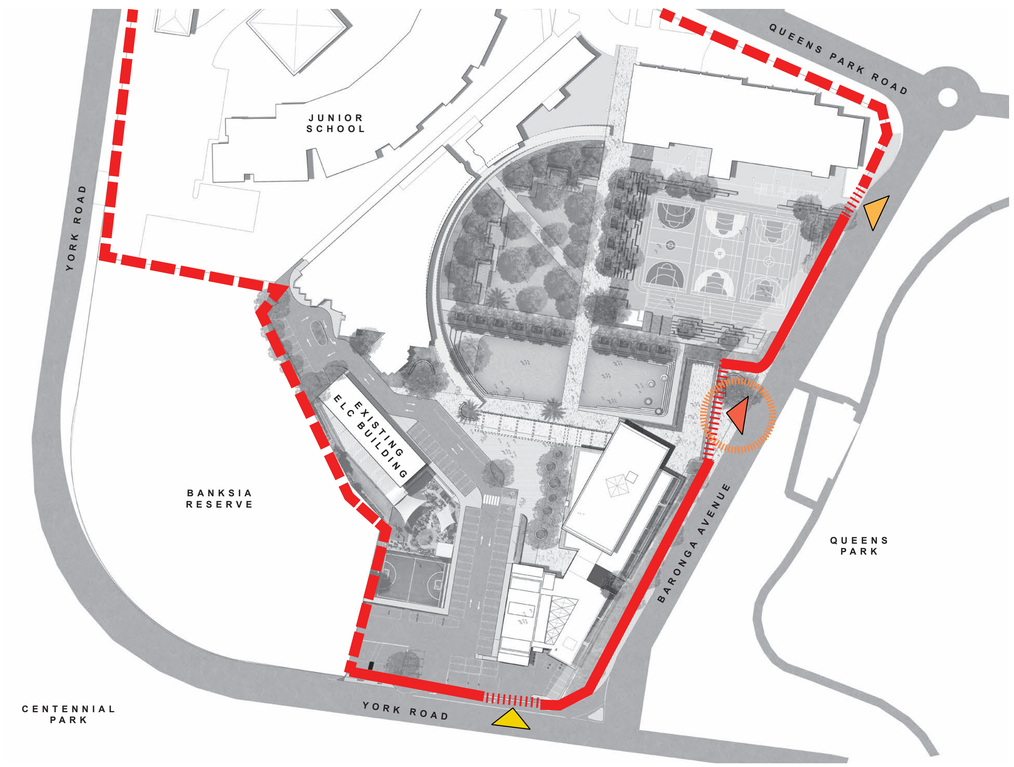
SECURITY STRATEGY

The legibility of the campus relates to its overall spatial structure, particularly the pattern of open spaces and the clarity of the network of paths and entries that innately guide movement and orientation. Legibility of the campus for the benefit of all students, staff and visitors through:

Clear and welcoming campus entries / address points and links to surrounding amenities (public transport etc)
- Clarity of paths and routes throughout the campus
- Clear definition of open space and function
- Achievement of good sight lines and visual connections
- High quality consistent signage across the campus

Clear connections between campus entrances and functional areas are fundamental. The development of a legible campus supports and improves the security and sense of safety for staff, students and visitors. Provision of clear sightlines, lighting and points of entries will improve passive surveillance of the campus and broader security.

Additional security treatments through perimeter fencing and wall treatments will provide physical protection to the school and improve legibility of secure entries.



LEGEND

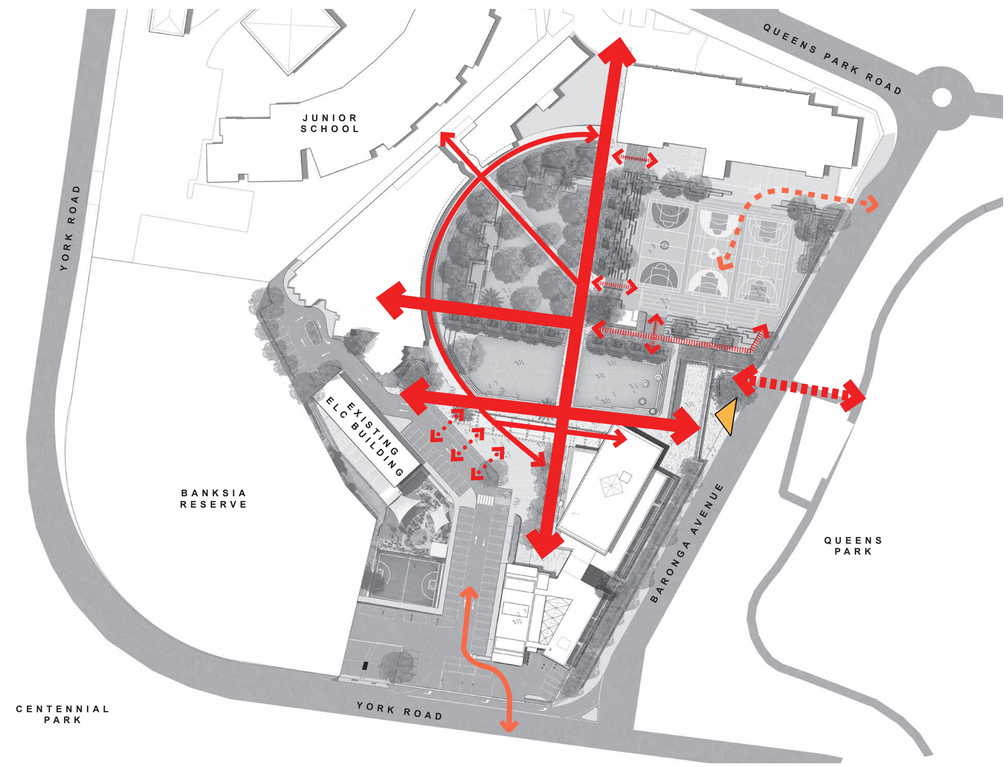
- EXISTING SECURE LINE (FENCE / WALL)
- NEW SECURE LINE (WALL)
- VEHICLE ACCESS
- MAINTENANCE / SERVICE ACCESS
- PEDESTRIAN ACCESS
- MAIN SCHOOL ENTRY (SECONDARY SCHOOL)

CIRCULATION STRATEGY

The sense of place of Moriah College is to be improved by supporting and enhancing its identity through respectful design. Existing physical features which already characterise the campus are to be supplemented with new memorable places to create a high quality and functional campus environment.

The legibility of the campus relates to its overall spatial structure, particularly the pattern of open spaces and the clarity of the network of paths and destinations. Legibility is to be reinforced by a series of spaces;
- Major gathering spaces (lawns, courts)
- Supportive gathering spaces (terraces, amphitheatres)
- Connective spaces for movement around the campus
- Contemplative spaces for quiet retreat and study

These areas will increase the quantum of open space, provide new foci in the spatial structure and life of the campus, and emphasise campus entrances. Clear connections between campus entrances and functional areas are fundamental.



LEGEND

- PRIMARY PEDESTRIAN PATHS
- PEDESTRIAN CONNECTION TO QUEENS PARK
- SECONDARY PEDESTRIAN PATHS
- STAIR + RAMP ACCESS
- STUDENT + CEREMONY DROP OFF
- VISITOR VEHICLE PATH
- SERVICE VEHICLE PATH
- MAIN PEDESTRIAN ENTRY

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SECURITY + CIRCULATION STRATEGY

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L-DA-05

CANOPY COVERAGE ANALYSIS

The following diagrams illustrate the existing canopy coverage to the senior school, and proposed canopy coverage for both Stage 1 and Stage 2 landscape works. The diagrams also provide an area calculation of net canopy coverage.
The proposed ladscape works achieve an increase canopy coverage of 4,140m² at the completion of Stage 2.

EXISTING SITE

25800m² Total Site Area
3860m² Canopy coverage
15% Canopy coverage of Total Site

STAGE 1

25800m² Total Site Area
6640m² Canopy coverage
26% Canopy coverage of Total Site

New Trees: 96

STAGE 2

25800m² Total Site Area
8000m² Canopy coverage
31% Canopy coverage of Total Site

New Trees: 112

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L-DA- 06

LANDSCAPE AREA ANALYSIS

The following diagrams illustrate the existing landscape (lawn + garden) coverage to the senior school, and proposed landscape coverage for both Stage 1 and Stage 2 landscape works. The diagrams also provide an area calculation of net landscape coverage.
The proposed ladscape works achieve an increase landscape coverage of 500m². at the completion of Stage 2.

EXISTING SITE

25800m² Total Site Area
4440m² Landscape coverage
17% Landscape coverage of Total Site

STAGE 1

25800m² Total Site Area
4590m² Landscape coverage
18% Landscape coverage of Total Site

STAGE 2

25800m² Total Site Area
5665m² Landscape coverage
22% Landscape coverage of Total Site

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ISS.	AMENDMENT	DATE	BY
A	DRAFT Landscape Masterplan	17.09.19	LB
B	Landscape SSDA Report	01.10.19	LB
C	Landscape SSDA Report	10.10.19	LB
D	Amended Landscape SSDA Report	16.04.20	LB

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IMPORTANT NOTES:
Do not scale from drawings
All discrepancies to be brought to the attention of the Landscape Architect
Dimensions take precedence over scaled dimensions (also preference: All dimensions in mm unless otherwise stated.
All tree dimensions and RLs in metres.
Use figured dimensions only.
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
Pools & Water Features shall be installed in a professional manner by Qualified Tradesman according to Landscape Drawings and Engineer's Specification.
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DWG. TITLE
SECURITY + CIRCULATION STRATEGY

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OPEN SPACE AREA ANALYSIS

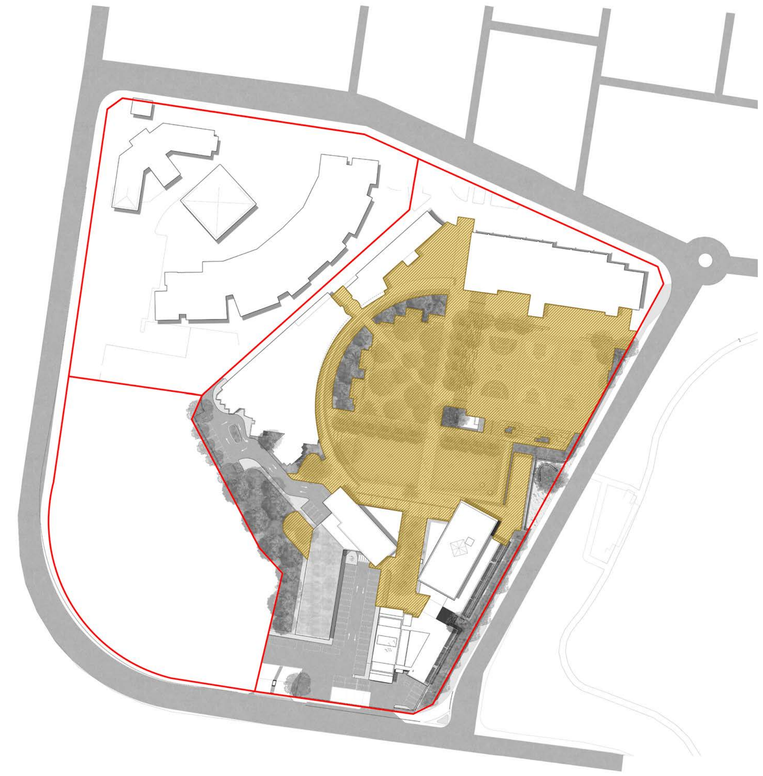
The following diagrams illustrate the existing usable open space area available to the senior school students, and proposed open space area for both Stage 1 and Stage 2 landscape works. The diagrams also provide an area calculation of net open space area.
The proposed ladscape works achieve an increase open space area of 4,520m² at the completion of Stage 2.

EXISTING SITE

25800m² Total Site Area
8760m2 Open Space coverage
34% Open Space of Total Site

STAGE 1

25800m² Total Site Area
14580m² Open Space coverage
56% Open Space of Total Site



STAGE 2

25800m² Total Site Area
13280m² Open Space coverage
51% Open Space of Total Site

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Structural Details shall be subject to Engineer's Specifications.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
All Steelwork shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
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All tree dimensions and RLs in metres.
All RLs to Australian Datum.
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Contractors shall locate and protect all services prior to construction.
All work shall be carried out in a professional manner and to the relevant Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
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STAGE 1A - LANDSCAPE MASTERPLAN

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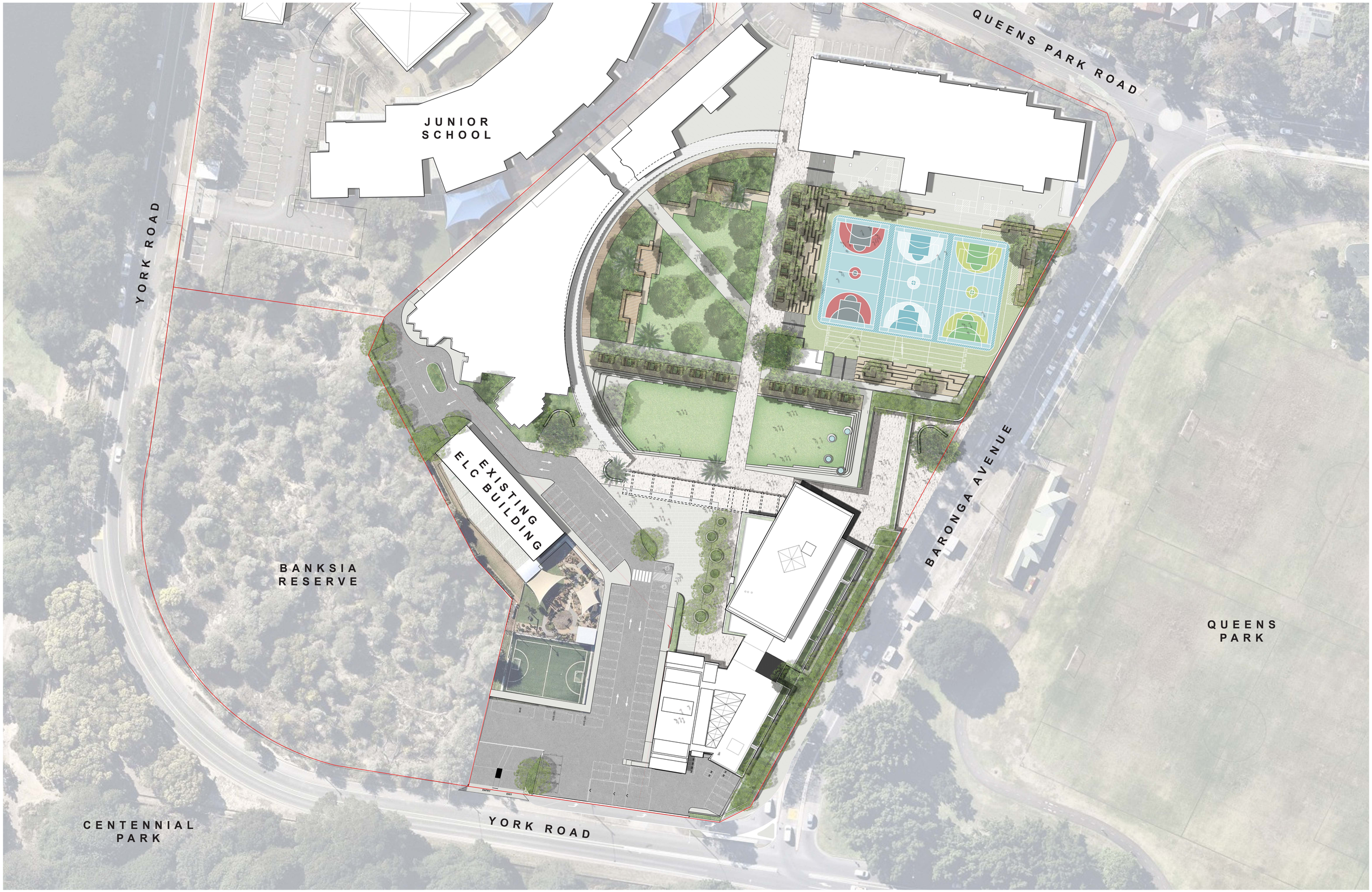

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All RLs to Australian Datum.
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction
All work shall be carried out in accordance with Australian Standards and Local Government Regulations.
Drainage & Water Features DO NOT HOLD WATER UNLESS SPECIFIED.
Drainage & Water Features DO NOT HOLD WATER UNLESS SPECIFIED.
All work shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
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STAGE 1B - LANDSCAPE MASTERPLAN

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All Work and Materials shall comply in all respects with the Relevant Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
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STAGE 2 - LANDSCAPE MASTERPLAN

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L-DA-11

LEGEND

1 MAIN SCHOOL ENTRY GATES OFF BARONGA AVENUE

2 PUBLIC FORECOURT TO SCHOOL ENTRY WITH LARGE CULTURALLY SIGNIFICANT FEATURE TREE AND SEATING AROUND

3 INTERNAL FORECOURT TO SCHOOL TO ACCOMMODATE GATHERINGS FOR EVENTS AND ENGAGEMENTS, AS WELL AS DAILY SCHOOL ACTIVITY AND STUDENT ARRIVALS.

4 LANDSCAPE EDGE PLANTED WITH NATIVE GRASSES AND SHRUBS

5 FORMAL SPORTS COURTS (PAINTED CONCRETE)

6 CENTRAL SCHOOL CONCOURSE AND AXIS PATH

7 RAISED SEATING PLATFORMS WITH MIXED SEATING OPPORTUNITY FOR GROUP AND INDIVIDUAL USE ACCENTED BY CENTRAL GARDEN BEDS

8 AVENUE OF TREES WHICH STRENGTHEN THE AXIAL PATH CONNECTIONS WHILE PROVIDING SHADE TO SEATING AND SEPARATION BETWEEN FUNCTIONAL USES OF THE CAMPUS

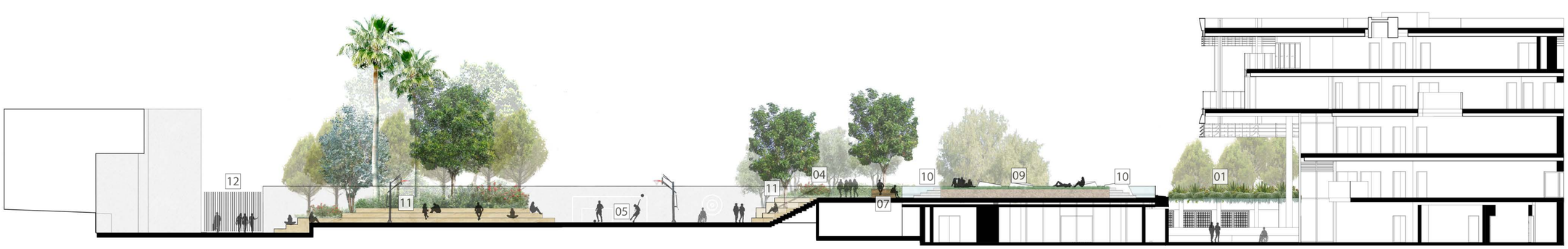
9 LARGE CENTRAL LAWN PROVIDING STUDENTS WITH SPACE FOR SOCIAL GATHERING, PLAY AND RESPITE. THE CENTRAL LAWN WILL ALSO SUPPORT SCHOOL EVENTS, PERFORMANCES, ASSEMBLIES AND CEREMONIES

10 RAISED EASTERN END OF LAWN PROVIDES TERRACED SEATING WITH VIEWS OF QUEENS PARK

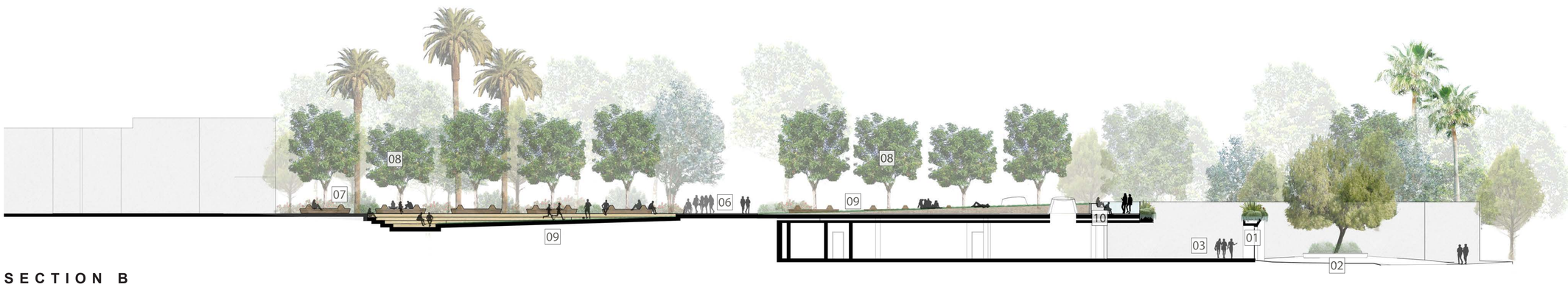
11 TERRACED PLATFORMS OF VARYING WIDTHS AND SIZES FOR VARIED GROUP SEATING, CLASS ADDRESS, AND SPECTATING

12 MAINTENANCE AND SERVICE VEHICLE ACCESS GATES

KEY PLAN



SECTION A



SECTION B

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Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with ASA, SCA and Local Government Regulations.
Refer to Hydraulic Engineer's Specifications for irrigation details.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
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L-DA-12

LEGEND

1 MAIN SCHOOL ENTRY GATES OFF BARONGA AVENUE

2 PUBLIC FORECOURT TO SCHOOL ENTRY WITH LARGE CULTURALLY SIGNIFICANT FEATURE TREE AND SEATING AROUND

3 INTERNAL FORECOURT TO SCHOOL TO ACCOMMODATE GATHERINGS FOR EVENTS AND ENGAGEMENTS, AS WELL AS DAILY SCHOOL ACTIVITY AND STUDENT ARRIVALS.

4 LANDSCAPE EDGE PLANTED WITH NATIVE GRASSES AND SHRUBS

5 PRIMARY ACCESS STAIR TO MAIN SCHOOL GROUNDS

6 CENTRAL SCHOOL CONCOURSE AND AXIS PATH

7 RAISED SEATING PLATFORMS WITH MIXED SEATING OPPORTUNITY FOR GROUP AND INDIVIDUAL USE ACCENTED BY CENTRAL GARDEN BEDS

8 AVENUE OF TREES WHICH STRENGTHEN THE AXIAL PATH CONNECTIONS WHILE PROVIDING SHADE TO SEATING AND SEPARATION BETWEEN FUNCTIONAL USES OF THE CAMPUS

9 LARGE CENTRAL LAWN PROVIDING STUDENTS WITH SPACE FOR SOCIAL GATHERING, PLAY AND RESPITE. THE CENTRAL LAWN WILL ALSO SUPPORT SCHOOL EVENTS, PERFORMANCES, ASSEMBLIES AND CEREMONIES

10 RAISED EASTERN END OF LAWN PROVIDES TERRACED SEATING WITH VIEWS OF QUEENS PARK

11 SUNKEN TERRACE TO INFORMAL PERFORMANCE SPACE AND POINT OF ADDRESS PROVIDES ADDITIONAL SEATING OPPORTUNITY AND NECESSARY TOPOGRAPHY FOR A FUNCTIONAL AMPHITHEATRE

12 INTERNAL SCHOOL DROP OFF, AND CEREMONIAL PRECESSION COURT ADJACENT THE EXISTING SCHUL AND PROPOSED LAWN

13 FEATURE CEREMONIAL TREE WITH CURVED PERIMETER SEAT

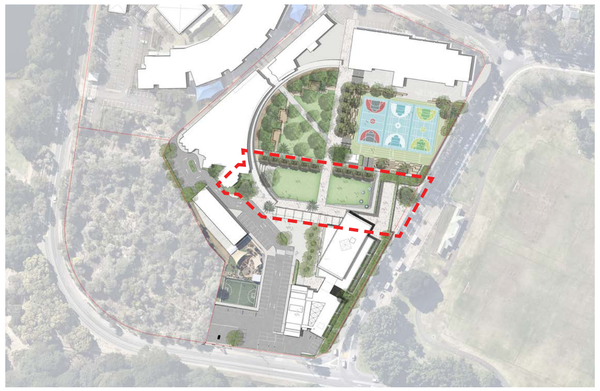
14 NEW INTERNAL SERVICE ROAD AND PARKING

15 EXISTING AWNING TO BE RETAINED

16 CULTURALLY SIGNIFICANT INTERPRETIVE ARTWORK AND INFORMATION TO THE PUBLIC FACING PERIMETER WALL. ARTISTIC REPRESENTATION OF THE SCHOOLS 5 CORE VALUES, COMMITMENT, RESPECT, KINDNESS, INTEGRITY, RESPONSIBILITY.

ADDITIONALLY THE WALL ART WILL REPRESENT THE CROSS CULTURAL NARRATIVE OF INDIGENOUS, AUSTRALIAN AND JEWISH CULTURES

17 PLANTING OF CULTURALLY SIGNIFICANT PHOENIX CANARRIENSIS (DATE PALM)



KEY PLAN

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Refer to Engineer's Details for all Stormwater Drainage details.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
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DWG. TITLE
CENTRAL LAWN - DETAILED LANDSCAPE PLAN

PROJECT
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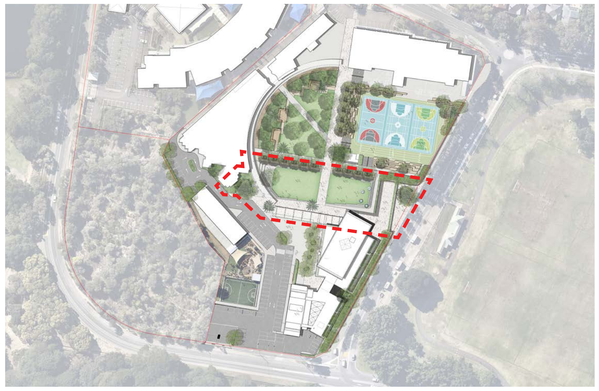
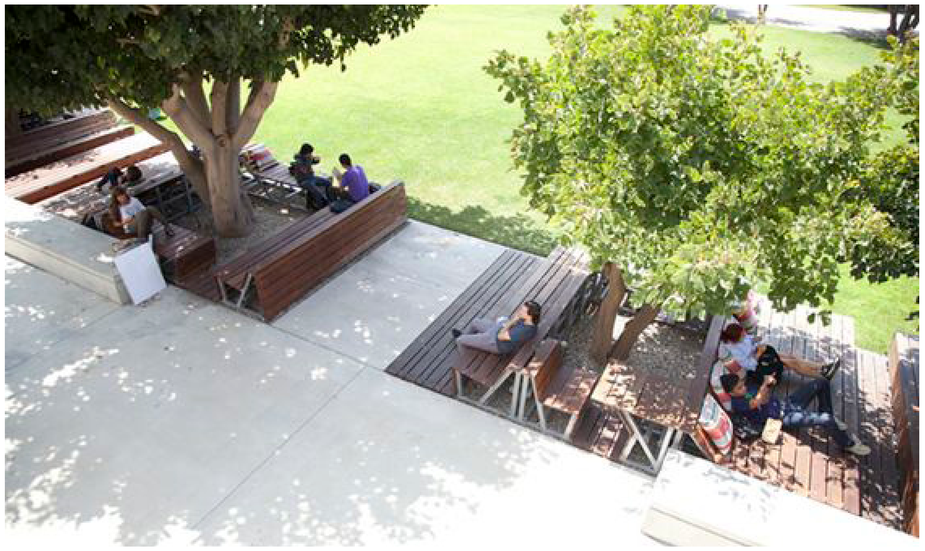


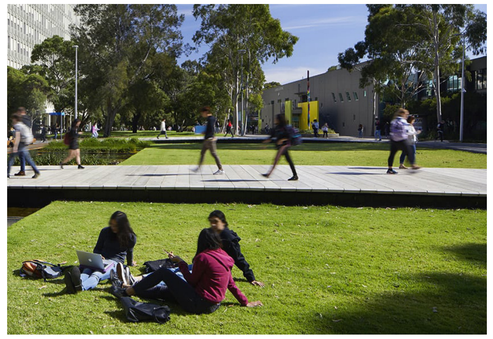
KEY PLAN

The Central Green forms the heart of the campus, conveying students between classes, accommodating outdoor learning, supporting social spaces and facilitating ceremonial gatherings, assembly and performances.

Adjacent to key access routes, slow speed - movement on edges, the lawn provides multiple opportunities for seating, both on the lawn and the perimeter edge while a diagonal path enables direct pedestrian movement across site. The lawn gently tilts from east to west creating a subtle amphitheatre, with the level change at the perimeter creating terraces, raised at the eastern end strengthening views and connection to Queens park, and sunken at the western end to create a stage/dais to support performance and ceremonial events.

Complementary to the central lawn is a an spine of informal and playful seating opportunities beneath an avenue of native tree planting. These seats provide a central congregation point with direct connection to the lawn. This combination of spaces enables various activities to be undertaken, including study, social gathering, events, classes and performances. Each contributing to a vibrant and social campus heart.





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Structural Details shall be subject to Engineer's Specifications.
Hydraulic Details and Pool Structure Details shall be subject to Hydraulic Engineer's Specifications.
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CENTRAL LAWN - LANDSCAPE SUMMARY

PROJECT
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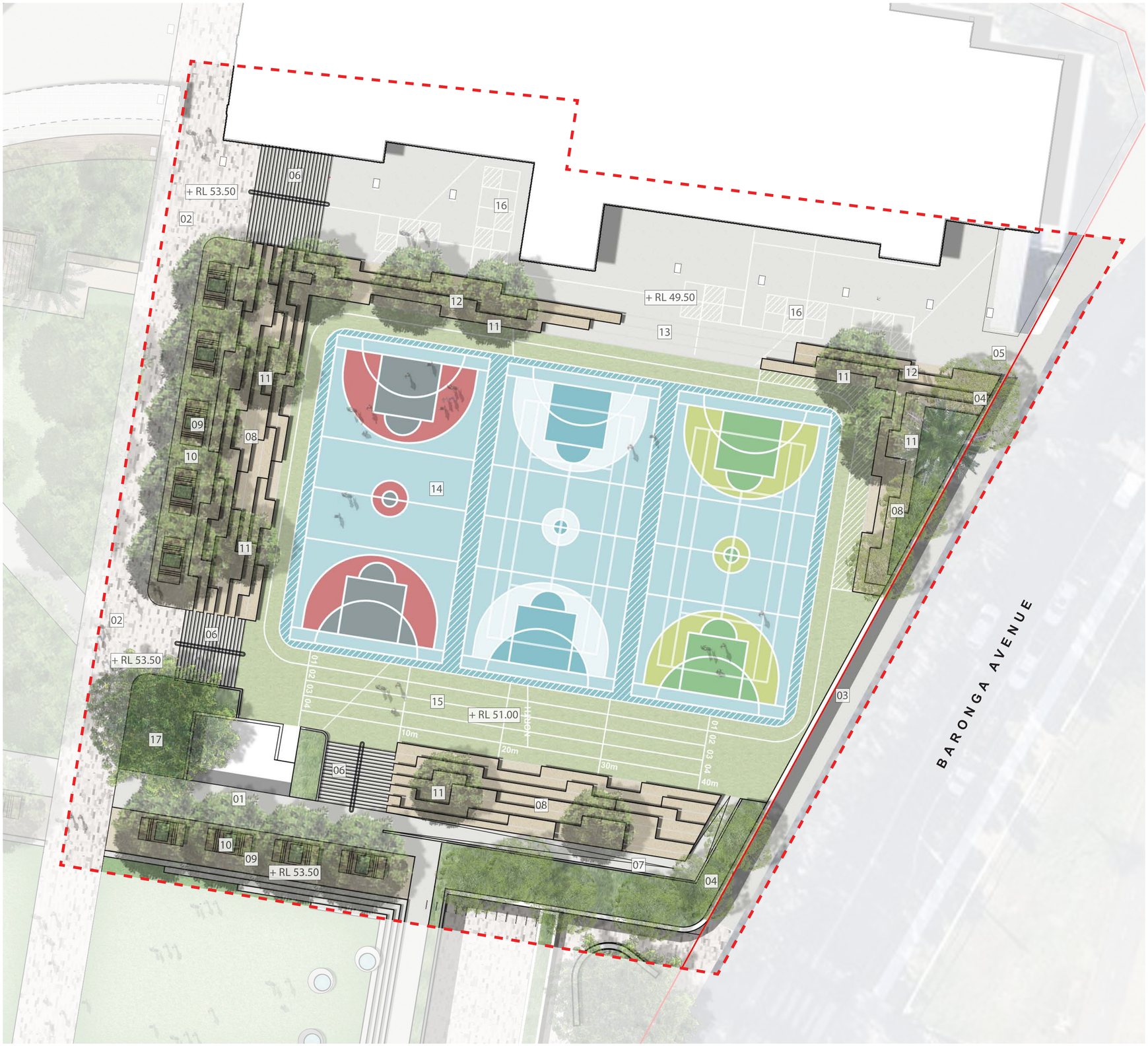

KEY PLAN

LEGEND

1	EXISTING SUBSTATION BUILDING
2	CENTRAL SCHOOL CONCOURSE AND AXIS PATH
3	PERIMETER SECURITY WALL TO SCHOOL CAMPUS WITH INTEGRATED CULTURAL NARRATIVE AND ARTISTIC REPRESENTATION OF THE SCHOOLS 5 CORE VALUES
4	LANDSCAPE EDGE PLANTED WITH NATIVE GRASSES AND SHRUBS
5	MAINTENANCE AND SERVICE VEHICLE ACCESS GATES
6	STAIR ACCESS DOWN TO PLAYING COURTS
7	RAMP ACCESS TO PLAYING COURTS
8	TERRACED PLATFORMS OF VARYING WIDTHS AND SIZES FOR VARIED GROUP SEATING, CLASS ADDRESS, AND SPECTATING
9	RAISED SEATING PLATFORMS WITH MIXED SEATING OPPORTUNITY FOR GROUP AND INDIVIDUAL USE ACCENTED BY CENTRAL GARDEN BEDS
10	AVENUE OF TREES WHICH STRENGTHEN THE AXIAL PATH CONNECTIONS WHILE PROVIDING SHADE TO SEATING AND SEPARATION BETWEEN FUNCTIONAL USES OF THE CAMPUS
11	TREES WITHIN TERRACES TO PROVIDE SHADE
12	EXTENSION OF TERRACES TO LEVEL TRANSITION BETWEEN SPORTS COURTS AND LOWER HANDBALL COURTS
13	RAMPED ACCESS UP TO COURTS FOR SERVICE VEHICLE ACCESS
14	FORMAL SPORTS COURTS (PAINTED CONCRETE) - 3 X PAINTED BASKETBALL/NETBALL COURTS AND 2 X TENNIS COURTS. PROVISION FOR NETTING TO BE DRAWN ACROSS AND SEPARATE COURTS
15	INFORMAL SPORTS (ARTIFICIAL LAWN), WITH VARIED LINE MARKINGS FOR INTERPRETIVE PLAY, GAMES, AND APPLIED TEACHING
16	HANDBALL COURTS AND LINE MARKING (PAINTED CONCRETE)
17	LARGE CULTURALLY SIGNIFICANT SHADE TREE

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ACTIVE COURTS - DETAILED LANDSCAPE PLAN

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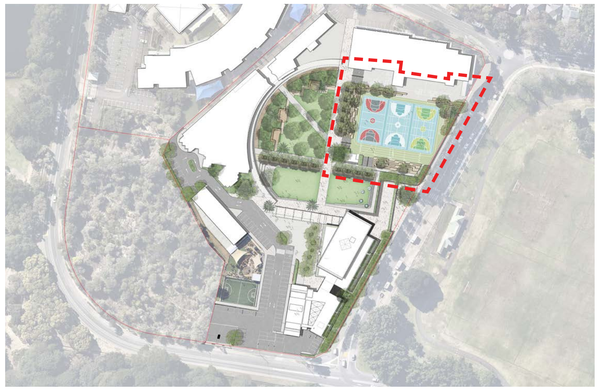
ABN: 90 148 901 322

L-DA-15



KEY PLAN

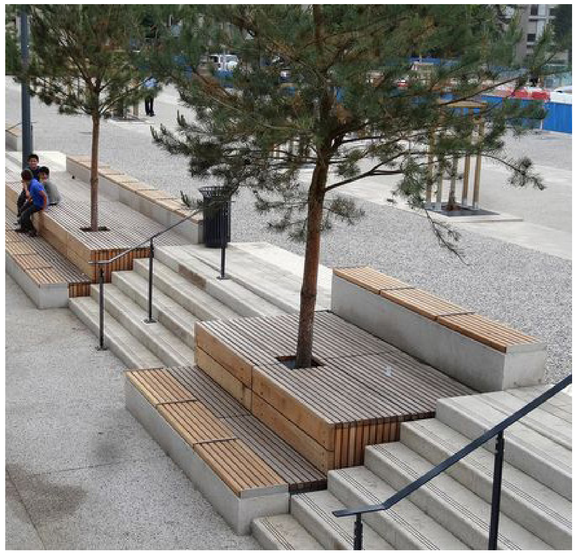
The campus masterplan and delivery of the new STEAM building provides an opportunity to establish a central active sports centre for the school, consolidating all sports courts into a single location. The active centre replaces 2 existing courts located adjacent the existing school gymnasium/pool building, enabling direct relationship to the building function, and positioning all the schools active pursuits away from passive use spaces, such as classrooms, library, gardens/lawns etc.

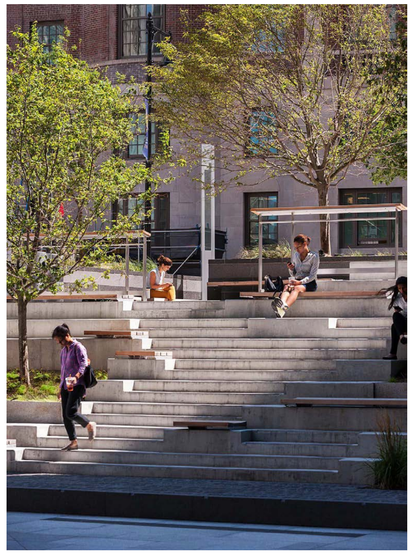
Restoration of the existing sports courts includes expansion from 2 to 3 courts, incorporation of 2 x tennis courts to replace the existing courts lost from the new building construction, introduction of retractable netting to separate the courts, new high quality surface finish and multi court line marking, including;

- Tennis (2 courts)
- netball (3 courts)
- basketball (3 courts)
- volleyball (3 courts)
- badminton (3 courts)
- hockey (1 court)

This is a flexible court for a variety of sports and games. The adjacent terraces are transacted by an equal access ramp and a series of bleachers primarily for observing sport but also for group learning and assemblies. Seating is provided all around the court and retractable netting will contain ball play.

A series of terraces are incorporated to accommodate the varied level change from the courts up to the main campus gardens. The guiding element and identity of the design are the 'quarry terraces' that connect all levels of the school. Sandstone quarry blocks will be used to define the terraces which are abstracted and manipulated to provide various opportunities for structured and unstructured play, outdoor learning, class address, spectating, and social gathering. These terraces also form a cultural representation of material and spatial arrangement.





Moriah College
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ISS.	AMENDMENT	DATE	BY
A	DRAFT Landscape Masterplan	17.09.19	LB
B	Landscape SSDA Report	01.10.19	LB
C	Landscape SSDA Report	10.10.19	LB
D	Amended Landscape SSDA Report	16.04.20	LB

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Hydraulic Details / Pressure Details shall be subject to Hydraulic Engineer's Specifications.
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DWG. TITLE
ACTIVE COURTS - LANDSCAPE SUMMARY

PROJECT
MCMSC - MORIAH COLLEGE

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ABN: 90 146 601 322

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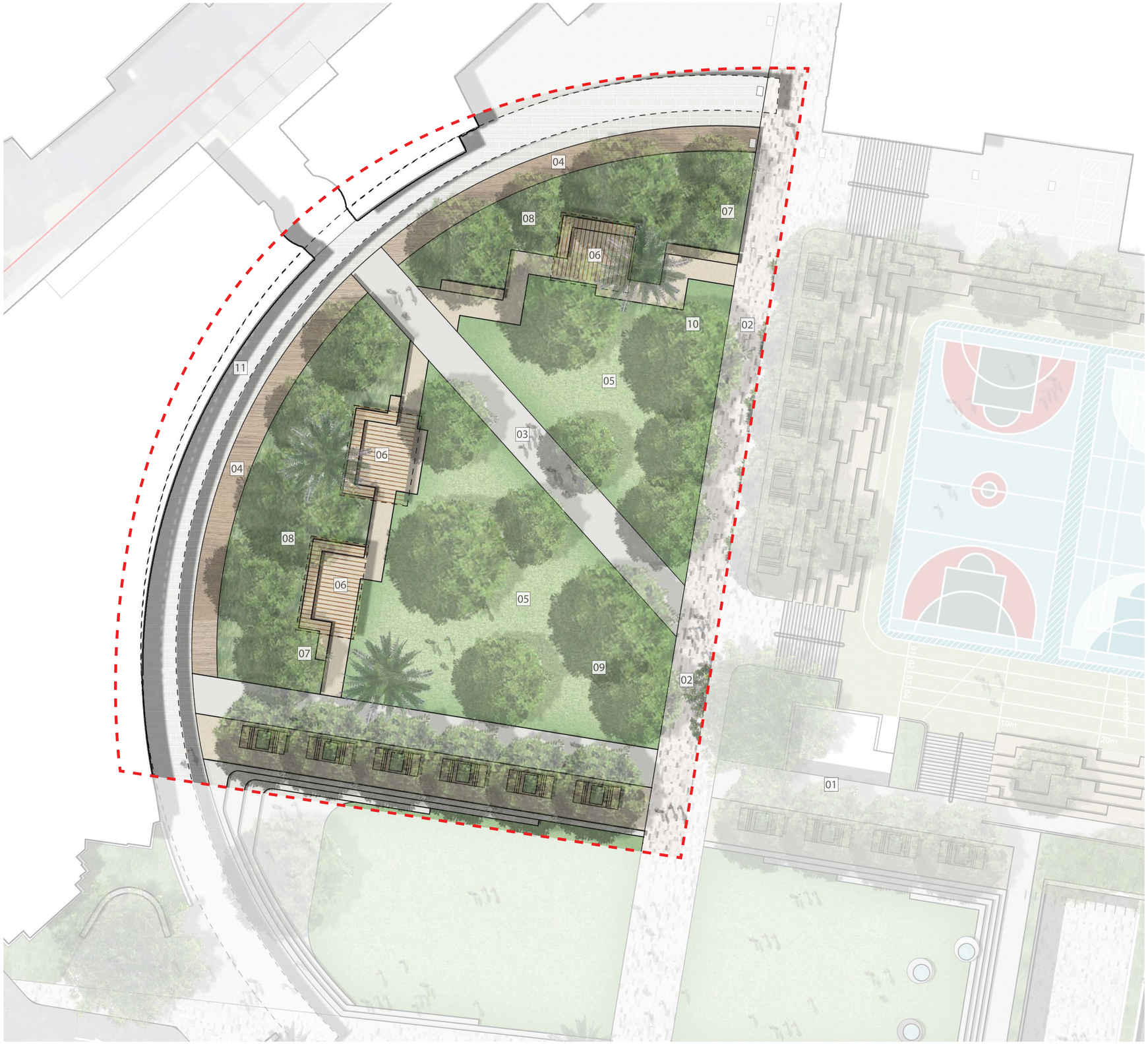

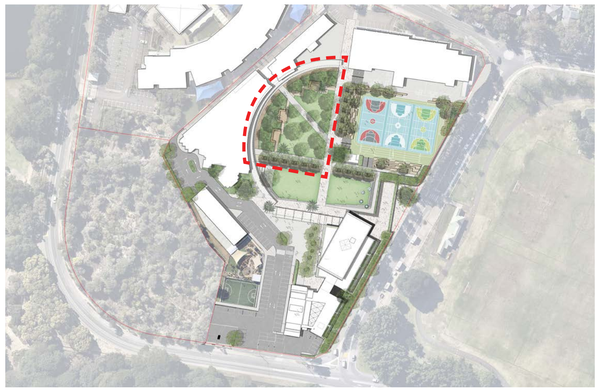

KEY PLAN

LEGEND

1 EXISTING SUBSTATION BUILDING

2 CENTRAL SCHOOL CONCOURSE AND AXIS PATH

3 MAINTAIN EXISTING PATH CONNECTION BETWEEN SCHOOL AND ACTIVE COURTS

4 LONG AND DEEP PERIMETER BENCH PROVIDES STUDENTS WITH ADDITIONAL SEATING AND GATHERING SPACE ADJACENT CLASS ROOMS. IT ALSO PROVIDES A BARRIER TO STUDENT MOVEMENT THROUGH THE GARDENS

5 LARGE CENTRAL LAWN SET WITHIN THE GARDENS COLONISED BY AN ARBORETUM OF CULTURALLY AND ENVIRONMENTALLY SIGNIFICANT TREE SPECIES. PROVIDE OPPORTUNITIES FOR RESPITE AND EDUCATION

6 SEATING SPACES WITH LIGHTWEIGHT SHADE STRUCTURES OFFER OPPORTUNITY FOR EXTERNAL CLASSES AND PRACTICAL TEACHINGS. SECONDARY FUNCTION OF CULTURAL CEREMONIES

7 PRODUCTIVE GARDEN TO PROVIDE AN ENGAGING PLATFORM FOR SCIENTIFIC EDUCATION, EDUCATING STUDENTS ON THE PROCESS ASSOCIATED WITH FOOD PRODUCTION

8 LINEAR RAIN GARDEN ADJACENT THE MAIN CONCOURSE TO CAPTURE AND FILTER SITE STORMWATER. PROVIDES ADDITIONAL OPPORTUNITY FOR EDUCATION OF NATURAL SYSTEMS

9 RELOCATION OF EXISTING MAGEN DAVID DIVERSITY GARDEN TO WITHIN REFLECTION GARDEN

10 MUNICH II MEMORIAL SITE TO BE RETAINED/RELOCATED WITHIN REFLECTION GARDEN

11 EXISTING WALKWAY AWNING TO BE RETAINED

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Do not scale from drawings. Use metres.
Use figured dimensions only.
Verify all dimensions on site before the commencement of any works.
Do not cut or drill through beams, columns or structural walls.
All work shall be carried out in accordance with AUA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesman according to Landscape Drawings and Architect's Specifications.
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ISSUE
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DWG. TITLE
REFLECTION GARDEN - DETAILED LANDSCAPE PLAN

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
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p +612 9332 3901
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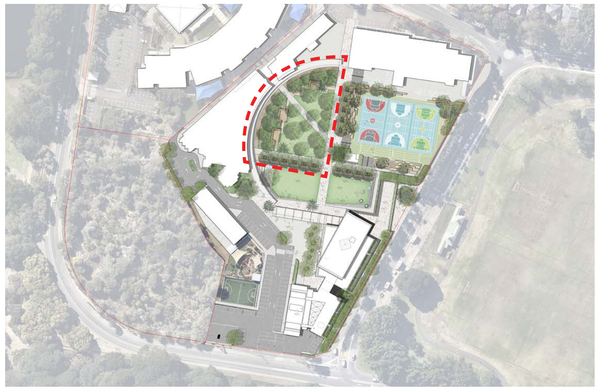
ABN: 90 148 901 322

L-DA-17



KEY PLAN

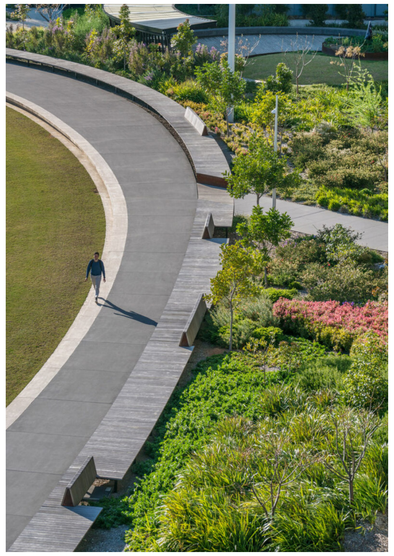
This is a distinctive landscape learning space. It is a 'physic garden' where students can grow edible, medicinal and functional plants and test their theoretical knowledge in practical applications.

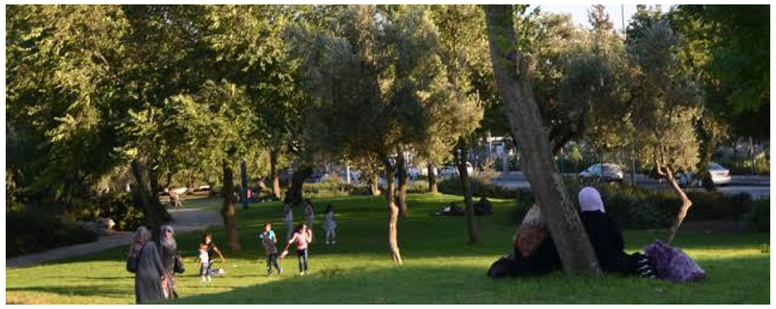
In support of the campus concept of learning through biophilia the planting scheme will be a continuous green space 'park to park', implemented as a cultural arboretum. A mix of new deciduous and evergreen trees of various scales are selected to replace lost canopy of existing trees to be removed and will provide a more suitable and new green amenity, solar access and shade relative to the built form. Together with new shrubs and groundcovers the planting scheme will supplement the lessons of the classroom through practical application within the garden and to illustrate the diverse value of the plant kingdom. Every plant species will be purposeful and will be arranged variously as companions as well as organized by their application, such as

- edible
- medicinal (pharmaceutical and 'traditional')
- functional (for example, clothes, rope)
- cultural (for example, religious or ceremonial with a focus on local traditional aboriginal and colonial use)
- environmental benefit (air and water quality)

Shaded, seated teaching zones are provided for lessons, which also support cultural use and ceremonial gathering.

The design references the schools cultural history and will be infused with elements, details, materials and planting that reflect the cultural teachings, site's indigenous and ecological significance, as well as its global future as a benchmark of progressive, multi-cultural learning.





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Levels are shown in AHD in metres.
Use figured dimensions only.
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.
Refer Hydraulic Drawings for all Stormwater Drainage.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesman according to Landscape Drawings and Specifications and Standards.
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Queens Park NSW 2022

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LB

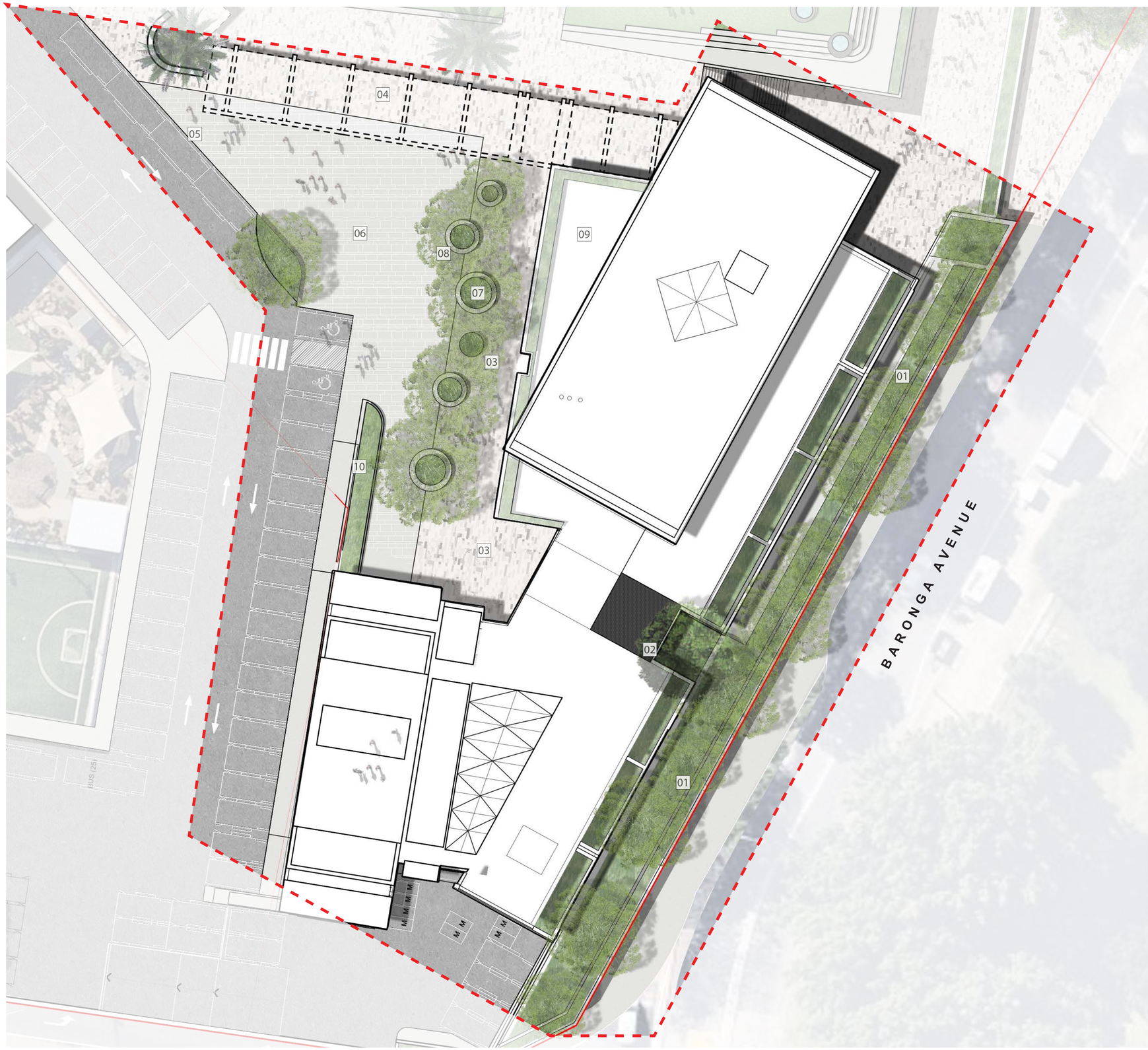
SCALE	DRAWN	ISSUE
N/A	LB	SSDA

DWG. TITLE
REFLECTION GARDEN - LANDSCAPE SUMMARY

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN 80 148 901 382

L-DA-18



KEY PLAN

LEGEND

1 PERIMETER LANDSCAPE TREATMENT AND TREE PLANTING TO BARONGA AVENUE FRONTAGE

2 INTERNAL COURTYARD GARDEN WITH VISUAL CONNECTION TO QUEENS PARK

3 CONTINUATION OF SCHOOL CONCOURSE PAVING TO STRENGTHEN AXIAL ALIGNMENT AND CONNECTION TO THE NEW BUILDING

4 NEW AWNING CONNECTING THE NEW BUILDING WITH THE DROP-OFF POINT

5 INTERNAL SCHOOL DROP OFF, AND CEREMONIAL PRECESSION COURT ADJACENT THE EXISTING SCHUL AND PROPOSED LAWN

6 BUILDING FORECOURT (TEMPORARY UNTIL CONSTRUCTION OF STAGE 2)

7 RAISED PLANTERS WITH SEATING EDGE AND DECIDUOUS TREES TO BUILDING ATRIUM

8 STUDENT GATHERING SPACE WITH SEATING AND TABLES SUPPORTING CLASS RECESS AND OUTDOOR LEARNING OPPORTUNITIES INCLUDING STUDY

9 OUTDOOR TERRACE TO LIBRARY

10 RAISED GARDEN FOOTPATH EDGE TO NEGOTIATE SPLIT LEVELS OF BUILDING ATRIUM AND NEW INTERNAL RD/PATH

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All tree dimensions and RLs in metres.
All RLs to Australian Datum
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction
All Trees to be Planted to Manufacturer's Specifications and Meeting Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
All Works shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
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DWG. TITLE
BUILDING + ATRIUM GARDENS - DETAILED LANDSCAPE PLAN

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

L-DA-19

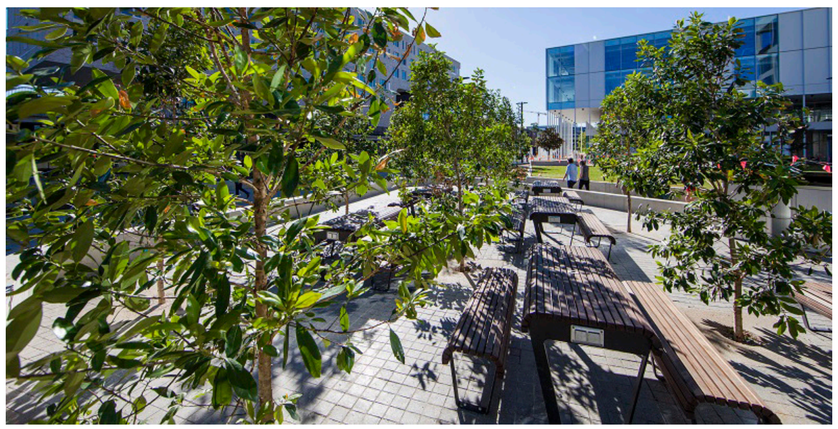
KEY PLAN

This is the highly active heart of the campus defined by the nexus of the internal Street drop-off, the exiting curved walkway and the through-site for the Baronga Avenue Campus entry. The space provides access and connection to the central green, the main learning building, the canteen, the main spine of steps that leads to the school entry, and the central path that connects other landscape zones of the campus.

The space is flexible and adaptable to provide an external space where by teachers can conduct informal classes that enable students to test theoretical knowledge in practical applications.

As this area is also identified for delivery of Stage 2 new building works, the extent of landscape treatment has been considered to facilitate these future works.

Along the Baronga Avenue frontage, a significant landscape treatment is incorporated to provide a landscape address and public interface. The species will consist predominantly of natives, representative of the adjacent Banksia reserve, Centennial Park, and Queens Park. The distinctly green campus will provide a unified landscape precinct, with strong physical and ecological connections to the surrounding parklands.



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DWG. TITLE
BUILDING + ATRIUM GARDENS - LANDSCAPE SUMMARY

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 601 322

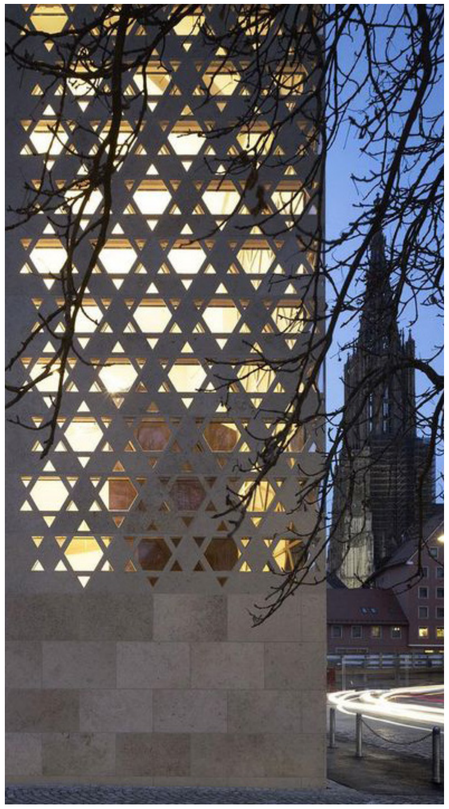
L-DA-20

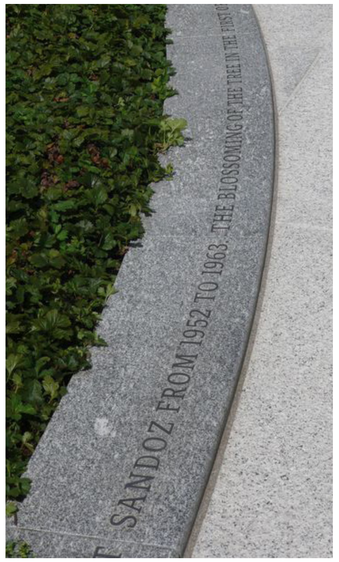
KEY PLAN

The design references the schools cultural teachings and will be infused with elements, details, materials and planting that reflect the religious identity, the sites indigenous and ecological significance, Australian cultural history as well as its global future as a benchmark of progressive, multi-cultural learning.

A significant public art contribution is proposed at the schools main entry and along the wall frontign Baronga Avenue. This cultural narrative will illustrate the 5 core values of the school;
- Commitment,
- Respect,
- Kindness,
- Integrity, and
- Responsibility.

Supported through significant planting species within the campus, the design will also explore the cross cultural narrative between Jewish, Australian and Indigenous culutres, providing a platform for both the school and the public to engage, bridging the gap of understanding and extending the conversation beyond the campus.





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Hydraulic Details shall be subject to Hydraulic Engineer's Hydraulic Engineer's Specifications.
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DWG. TITLE
CULTURAL NARRATIVE

PROJECT
MCMSC - MORIAH COLLEGE

360°
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Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 148 901 322

L-DA-21

LIGHTING, SAFETY + SECURITY

Moriah College operates both during the day and at night, supporting extra curricular activities, ceremonies and events, with lighting a crucial element that attracts people, helps navigate and facilitate function. There are 3 key areas where lighting plays an important function:

IDENTITY
Lighting can reinforce the identity and character of an area or precinct at night. Lighting can highlight key elements and entries or simply unify a precinct through a common approach.

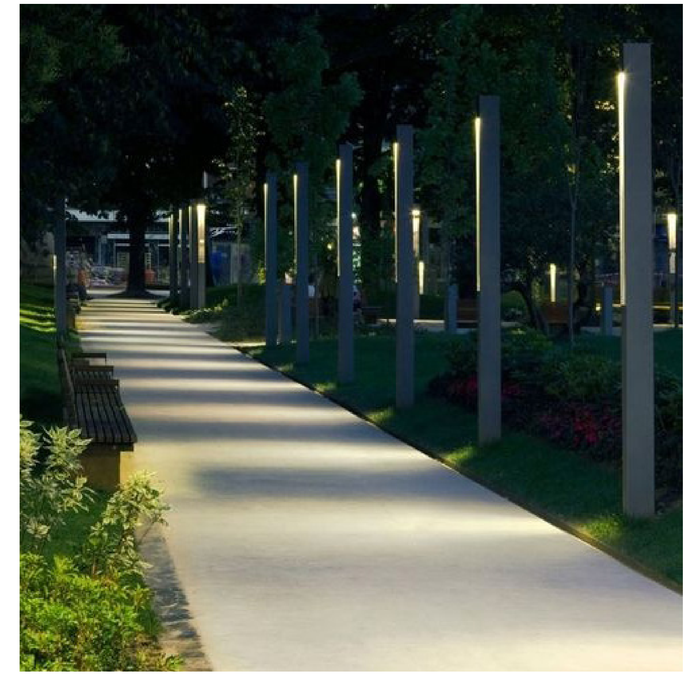
SAFETY
Feeling safe and secure is important when on campus. Lighting main circulation paths and adjoining areas to achieve appropriate levels of comfort, safety and security is essential. Crime Prevention Through Environmental Design (CPTED) guidelines will be adopted for all campus developments.

VARIETY
Lighting can be used to change the character and mood of a place on a seasonal or special event purpose. Lighting can also respond to use and enhance users experience of the space and adapt to the functions within the campus.

There are 2 key zones for lighting:

APPROACH LIGHTING
The introduction of lighting on the approaches to entry points reinforces the sense of arrival and the campus as a unique place. This sense of identity and anticipation will enhance the experience and perception of the campus.

OPEN SPACE LIGHTING
Each space will have its own character and identity, and the lighting of these spaces will support their functional use. The levels of lighting will vary dependent on the intended use of each space and be integrated within the overall design, including integrated with walls, furniture and gardens.



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All tree dimensions and RL's metres.
Use figured dimensions only.
Verify all dimensions on site before the commencement of any works.
Do not commence any work until all relevant Approvals are obtained.
All work shall be carried out in accordance with AUA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Waterproofing Details shall be subject to Waterproofing Consultant Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
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DWG. TITLE
LIGHTING, SAFETY + SECURITY

PROJECT
MCMSC - MORIAH COLLEGE

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Level 1, 1 Marys Place
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ABN: 90 148 901 322

L-DA-22

MATERIALS + FURNITURE

Campus materiality overlays movement and spatial typologies to generate way finding logic, reinforce gateways, assist with place making and utility functions.

GENERAL MATERIALITY NOTES

Minimise the number of different path finishes across campus.
Consider using variations in finishes to delineate between primary and secondary pavements areas.

Paving hierarchy is determined according to function and volumes of individual pathways. It is important to provide some hierarchy and define different areas to assist in way finding through the campus.

Variation in materials should be employed to improve accessibility and legibility for all users. Textural changes in surfacing and colour cues should assist with signalling entrances, thresholds and interstitial spaces, movement vs resting spaces, grade changes, and key way finding locations.

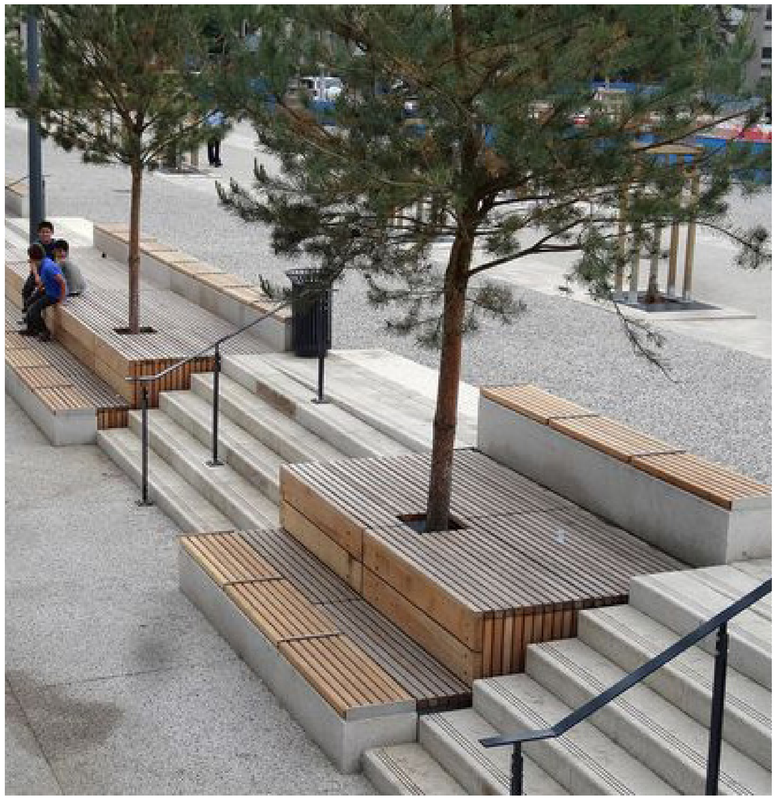
Campus furniture responds to the landscape & surrounding classroom programming, generating and encouraging social interaction, learning opportunities and respite, and spatial hierarchy.

GENERAL FURNITURE NOTES

Correspond to user requirements, climate, favourable proximity to paths, building fore courts and amenities.

Employ a family of material, finish, colour and design

Locate furniture in favourable climatic zones. ie wind protected areas with suitable solar access
Restrained selection of materials to be robust, vandal resistant, durable.



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1:200 @ A1

ISS.	AMENDMENT	DATE	BY
A	DRAFT Landscape Masterplan	17.09.19	LB
B	Landscape SSDA Report	01.10.19	LB
C	Landscape SSDA Report	10.10.19	LB
D	Amended Landscape SSDA Report	16.04.20	LB

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IMPORTANT NOTES:
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Where dimensions are in doubt, the dimensions take preference. All dimensions in mm unless otherwise stated.
All tree dimensions and RLs in metres.
Use figured dimensions only.
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
All waterproofing and Feature Details shall be subject to Hydraulic Engineer's Specifications.
All waterproofing shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
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L-DA-23

PLANTING

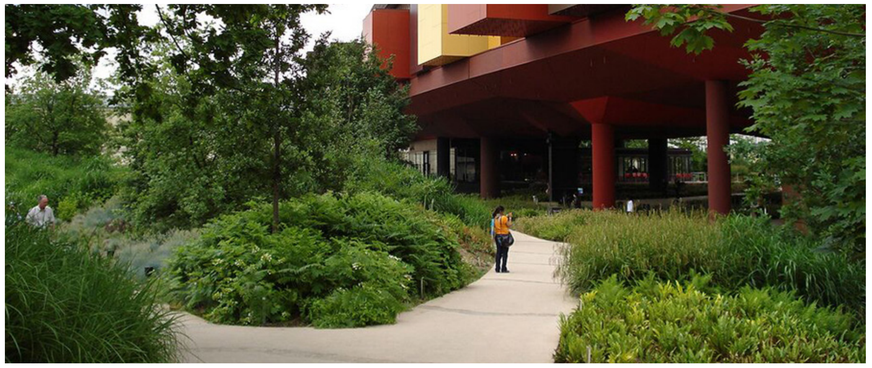
The gardens aren't merely an area to cross on the way between class, they are also a corner of nature within the building, places to discover the richness of biodiversity, learn the value of plants and conduct interactive classes.

In order to cater to the needs of staff and students, the landscape seeks to supplement the lessons learnt in the classroom through practical application within the garden. A series of learning landscapes have been developed to facilitate this external education while also supporting the Masterplan principles of 'greening the campus'. These gardens include;

- Cultural Garden
- Science Garden
- Edible Produce Garden
- Learning Gardens
- Performance and Ceremonial Garden

Botanical gardens themselves were usually set up with the aim of active education as well as plant introduction, initially to teach medicinal and useful plants; public recreation came later. The planting selection and arrangement at Moriah College plans to embrace those origins of garden design and encourage education through planting, as well as social interaction and recreation.

A summary of possible plant species for further development at detailed design of each stage is provided as a guide and point of commencement for the final planting selection and arrangement.



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1:200 @ A1

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All dimensions take precedence and written dimensions take preference. All dimensions in mm unless otherwise stated.
All tree dimensions and RLs in metres.
Use figured dimensions only.
Verify all dimensions on site before the commencement of any works.
Do not commence any work unless all relevant Consents are held.
All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Waterproofing Details shall be subject to Waterproofing Consultant Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
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DWG. TITLE
PLANTING

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0 5 10 20m
1:500 @ A1

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Do not scale drawings. Use figured dimensions only.
All work shall be carried out in accordance with AS/NZS and Local Government Regulations.
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DRAWN LB
ISSUE SSDA

DWG. TITLE
STAGE 2 - TREE SPECIES MASTERPLAN

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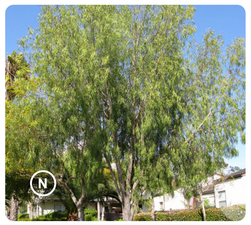
TREES

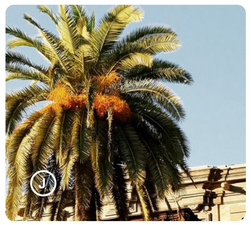
Banksia serrata

Banksia integrifolia



Geijera parviflora

Olea Europea



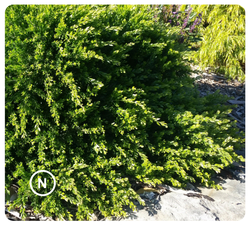
Phoenix canariensis

Quercus coccifera

Waterhousea floribunda

Eucalyptus sideroxylon

SHRUBS



Acacia howittii 'Canberry Honey Bun'

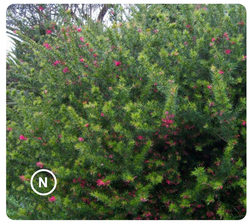
Acmena smithii minor

Aloe arborescens

Austromyrtus dulci

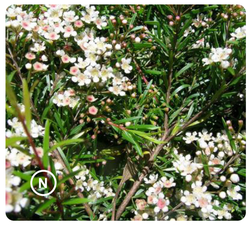
Baeckea imbricata

Casuarina glauca 'greenwave'

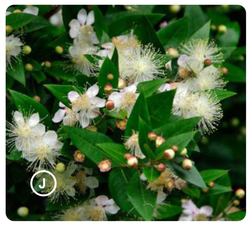


Grevillea rosmarinifolia

Lavandula dentata



Leptospermum petersonii 'Little Lemon'



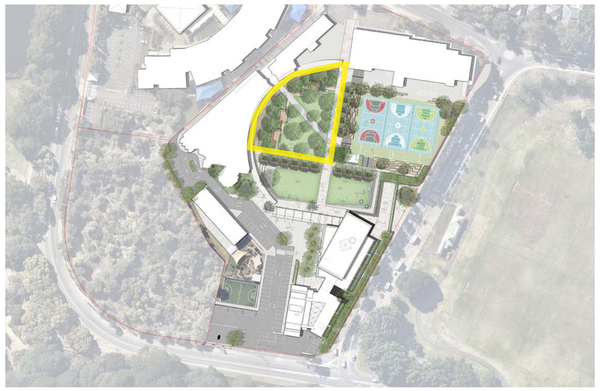
Myrtus communis

Ozothamnus diosmifolius

Rosmainus officinalis

Salvia hierosolymitana

Westringia fruticosa



KEY PLAN

- (J) JEWISH CULTURAL SIGNIFICANCE
- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE

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Work shall be carried out in accordance with the BCA and Relevant Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
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DWG. TITLE
PLANTING PALETTE - REFLECTION GARDEN

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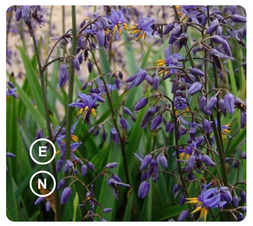
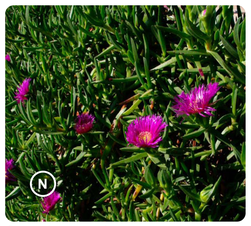
GRASSES, GROUNDCOVERS & CLIMBERS



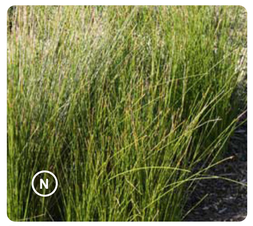
Dianella caerulea

Ophiopogon jaburan



Carpobrotus glaucescens

Juniperus conferta



Ficinia nodosa

Poa labillardieri 'Eskdale'

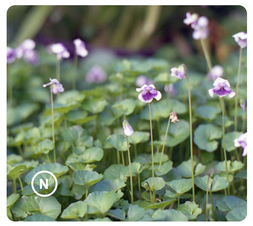
Thymus vulgaris

Vitus vinifera

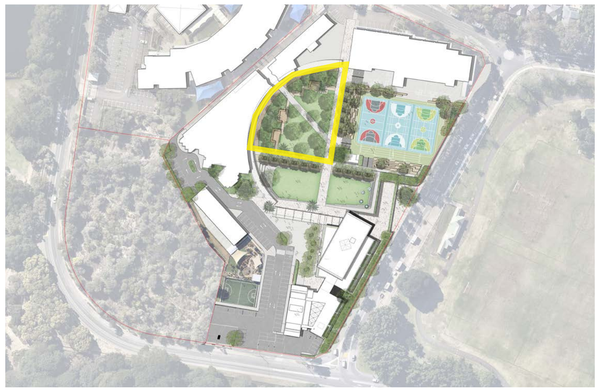
Pyrostegia venusta

Hardenbergia violacea

Pandorea pondorana



Viola hederacea



KEY PLAN

- (J) JEWISH CULTURAL SIGNIFICANCE
- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
TREES & PALMS				
*Banksia integrifolia****	Coast Banksia	100L	4 - 15m	4
*Banksia serrata****	Old Man Banksia	100L	5m	3
*Eucalyptus sideroxylon****	Mugga Ironbark	100L	15m	1
*Geijera parviflora**	Wilga	100L	8 - 15m	5
Olea Europea	Olive Tree	300L	4 - 8m	3
Phoenix dactylifera	Date Palm	ex ground	15 -25m	3
Quercus coccifera	Kermes Oak	300L	2 - 4m	3
*Waterhousea floribunda**	Weeping Lilly Pilly	300L	8m	2
SHRUBS				
*Acmena smithii 'Minor'***	Dwarf Lilly Pilly	300mm	4m	135
*Acacia howittii 'Canberry Honey Bun'**	Canberry Honey Bun	200mm	1m	60
Aloe arborescens	Candelabra aloe	200mm	1.8 -3m	30
*Austromyrtus dulcis**	Midgen Berry	200mm	0.5-1m	45
*Baeckea imbricata***	Heath Myrtle	200mm	1m	45
*Casuarina glauca 'greenwave'**	Casuarina Greenwave	200mm	2m	55
*Grevillea rosmarinifolia**	Rosemary Grevillea	200mm	0.75 - 1.5m	75
Lavandula dentata	French Lavender	200mm	1m	70
*Leptospermum 'Little Lemon Scents'**	Lemon-scented Tea Tree	200mm	1 -2m	60
Myrtus communis	Mrytle	200mm	3m	25
*Ozothamnus diosmifolius***	Rice Flower	200mm	1.5m	40
Rosmarinus officinalis	Rosemary	200mm	2m	90
Salvia hierosolymitana	Jerusalem salvia	200mm	0.6m	40
*Westringia fruticosa***	Coastal Rosemary	200mm	1m	140
GRASSES & FERNS				
*Dianella caerulea****	Blue Flax Lily	150mm	0.5-1m	300
*Ficinia nodosa***	knotted club-rush	150mm	0.8 - 1m	80
Ophiopogon jaburan	Dwarf Lilyturf	150mm	0.2m	200
*Poa labillardieri 'Eskdale'***	Tussock Grass	150mm	0.7 - 0.9	200
GROUNDCOVERS				
*Carpobrotus glaucescens***	Pigface	150mm	0.1-0.3m	185
Juniperus conferta	Shore Juniper	150mm	0.1-0.3m	275
Thymus vulgaris	German Thyme	150mm	0.3m	185
*Viola hederacea***	Native Violet	150mm	0.1-0.3m	275
CLIMBERS				
*Hardenbergia violacea****	Purple Coral Pea	150mm	0.5 - 2m	35
*Pandorea pandorana***	Wonga Wonga Vine	150mm	2 - 2m	15
Pyrostegia venusta	Flame Vine	150mm	5m	15
Vitis vinifera	Grape Vine	150mm	7m	15

*** ESBS

** Annexure B2-1 Indigenous species / Local Native

* Native

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All tree dimensions and RLs in metres.
Do not scale drawings.
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.
Refer Hydraulic Plans for all Stormwater Drainage Details.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesman according to Landscape Drawings and Specifications and Standards.
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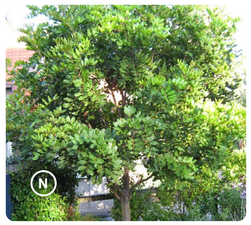
L-DA-27

TREES

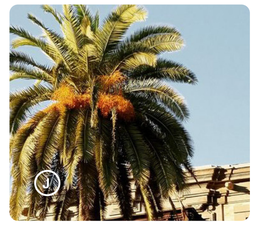


Cupaniopsis anacardioides

Olea Europea

fraxinus urbanite

Ulmus parvifolia



Phoenix canariensis

SHRUBS & FERNS

*Acacia howittii 'Canberry Honey Bun'**

Westringia fruticosa

Callistemon 'White Anzac'

Santolina chamaecyparissus

Artemisia arborescens 'Powis Castle'

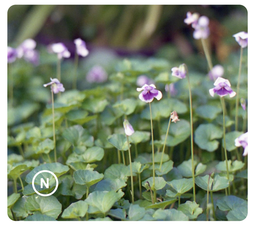
Doodia aspera

GRASSES, GROUNDCOVERS & CLIMBERS

Juniperus conferta

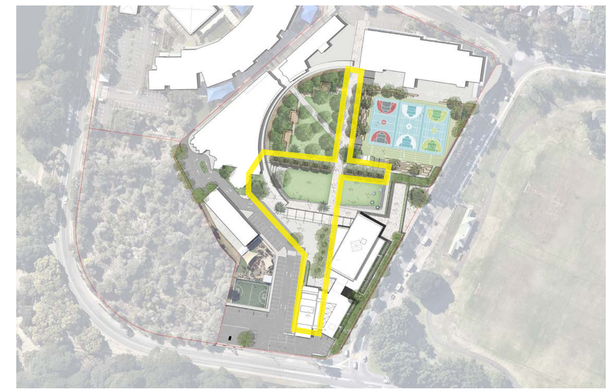
Senecio serpens

Rosmarinus 'Irene'



Viola hederacea

Casuarina glauca 'Cousin It'



KEY PLAN

- (J) JEWISH CULTURAL SIGNIFICANCE
- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
TREES & PALMS				
*Cupaniopsis anacardioides***	Tuckeroo	300L	5 - 8m	15
Fraxinus urbanite	Urbanite Ash	300L	15m	6
Olea Europea	Olive Tree	300L	4 - 8m	1
Phoenix dactylifera	Date Palm	ex ground	15 -25m	1
Ulmus parvifolia	Chinese Elm	300L	10m	2
SHRUBS				
*Acacia howittii 'Canberry Honey Bun'**	Canberry Honey Bun	200mm	1m	80
Artemisia arborescens 'Powis Castle'	Wormwood Powis Castle	200mm	0.6 -0.9m	80
*Callistemon 'White Anzac'**	White Anzac	200mm	0.5 - 1.5m	150
Santolina chamaecyparissus	Cotton Lavender	200mm	0.6m	120
*Westringia fruticosa***	Coastal Rosemary	200mm	1m	215
GRASSES & FERNS				
*Doodia aspera***	Prickly Rasp Fern	150mm	0.4m	120
GROUNDCOVERS				
*Casuarina glauca 'Cousin It'**	Cousin It	150mm	0.1-0.3m	120
Juniperus conferta	Shore Juniper	150mm	0.3m	150
Rosmarinus 'Irene'	Irene	150mm	0.1-0.3m	250
Senecio serpens	Chalksticks	150mm	0.1-0.3m	150
*Viola hederacea***	Native Violet	150mm	0.1-0.3m	300

*** ESBS
** Annexure B2-1 Indigenous species / Local Native
* Native

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All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
All Electrical Work shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
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N/A	LB	SSDA

DWG. TITLE
PLANTING PALETTE - CENTRAL LAWN & WALKWAYS

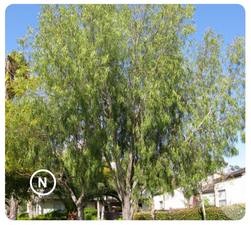
PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 801 322

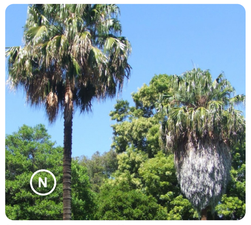
L-DA-28

TREES

Eucalyptus sideroxylon



Geijera parviflora



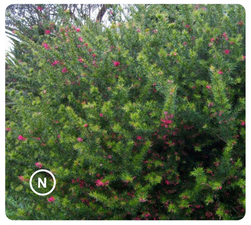
Livistona australis

Waterhousea floribunda

SHRUBS & FERNS

Alyxia buxifolia

Banksia ericifolia

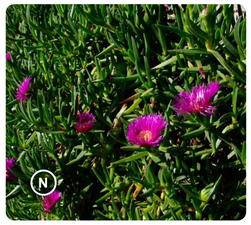


Grevillea rosmarinifolia

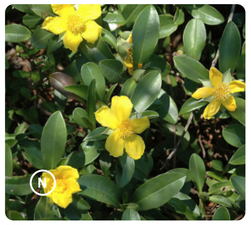
leptospermum laevigatum

Westringia fruticosa

GRASSES, GROUNDCOVERS & CLIMBERS



Carpobrotus glaucescens



Hibbertia scandens

Senecio serpens

Rosmarinus 'Irene'

KEY PLAN

- (J) JEWISH CULTURAL SIGNIFICANCE
- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
TREES & PALMS				
*Eucalyptus sideroxylon****	Mugga Ironbark	100L	15m	1
*Geijera parviflora**	Wilga	100L	8 - 15m	1
*Livistona australis**	Cabbage Tree Palm	ex ground	25m	2
*Waterhousea floribunda**	Weeping Lilly Pilly	300L	8m	9
SHRUBS				
*Alyxia buxifolia**	Sea Box	200mm	1.5-2m	35
*Banksia ericifolia****	Heath-Leaved Banksia	200mm	2 - 7m	15
*Grevillea rosmarinifolia**	Rosemary Grevillea	200mm	0.75 - 1.5m	35
*Leptospermum laevigatum****	Coastal Tea Tree	200mm	4m	15
Westringia fruticosa **	Coastal Rosemary	200mm	1m	35
GROUNDCOVERS				
*Carpobrotus glaucescens***	Pigface	150mm	0.1-0.3m	50
Rosmarinus 'Irene'	Irene	150mm	0.1-0.3m	25
Senecio serpens	Chalksticks	150mm	0.1-0.3m	25
CLIMBERS				
*Hibbertia scandens****	Guinea Flower	150mm	0.1-0.3m	30

*** ESBS
** Annexure B2-1 Indigenous species / Local Native
* Native

Moriah College
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ISS.	AMENDMENT	DATE	BY
A	DRAFT Landscape Masterplan	17.09.19	LB
B	Landscape SSDA Report	01.10.19	LB
C	Landscape SSDA Report	10.10.19	LB
D	Amended Landscape SSDA Report	16.04.20	LB

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fjmt

IMPORTANT NOTES:
Do not scale from drawings
Any discrepancies must be brought to the attention of the Landscape Architect
Larger scale drawings and written dimensions take preference. All dimensions in mm unless otherwise stated.
All tree dimensions and RLs in metres.
Use figured dimensions only.
Verify all dimensions and coordinates the commencement of any works.
Identify all underground services and protect all services prior to construction.
All work shall be carried out in accordance with AUA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Waterproofing shall be carried out in accordance with Manufacturer's Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
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Queens Park Rd,
Queens Park NSW 2022

CHECKED
LB

SCALE	DRAWN	ISSUE
N/A	LB	SSDA

DWG. TITLE
PLANTING PALETTE - SPORTS COURTS & TERRACES

PROJECT
MCMSC - MORIAH COLLEGE

360°
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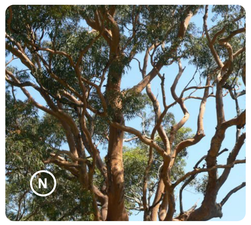
ABN: 90 148 901 322

L-DA-29

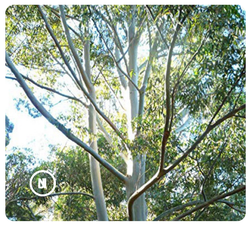
TREES



Angophora costata

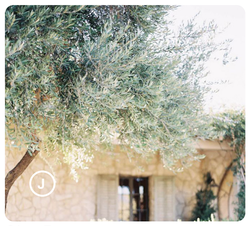
Banksia marginata

Corymbia maculata



Eucalyptus saligna

Eucalyptus sideroxylon



Olea Europea

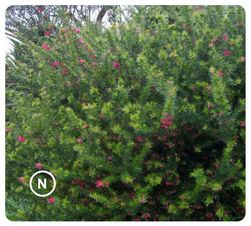
Quercus coccifera

Waterhousea floribunda

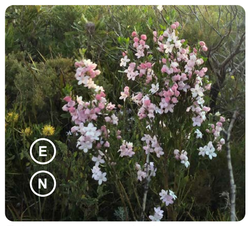
SHRUBS & FERNS

Alyxia buxifolia

Casuarina glauca 'greenwave'



Grevillea rosmarinifolia

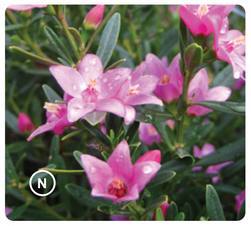


Eriostemon australasius

Westringia fruticosa

leptospermum laevigatum

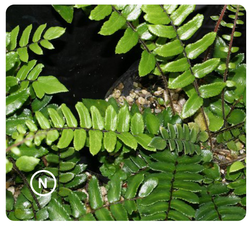
Banksia ericifolia



Crowea saligna

Juniperus horizontalis 'Glauca'

Doodia aspera



Pellaea falcata

GRASSES, GROUNDCOVERS & CLIMBERS

Lomandra longifolia

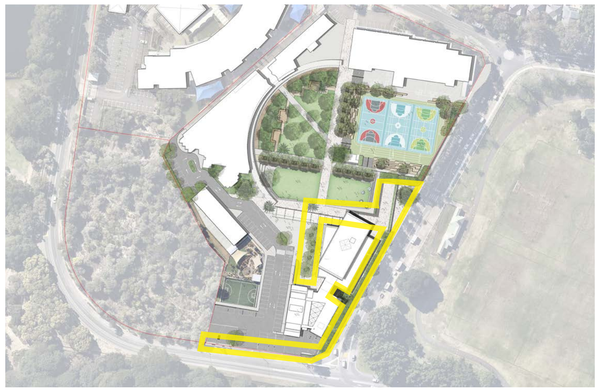
Carpobrotus glaucescens

Casuarina glauca 'Cousin It'

Hibbertia scandens

Pandorea pondorana

Senecio serpens



KEY PLAN

- (J) JEWISH CULTURAL SIGNIFICANCE
- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
TREES & PALMS				
*Banksia integrifolia****	Coast Banksia	100L	4 - 15m	3
Banksia marginata ***	Silver Banksia	100L	5m	5
*Banksia serrata****	Old Man Banksia	200L	3-15m	4
*Corymbia gummifera****	Red Bloodwood	300L	20m	1
*Corymbia maculata****	Spotted Gum	300L	30m	3
*Elaeocarpus reticulatus****	Blueberry Ash	200L	3-15m	1
*Eucalyptus saligna****	Sydney Blue Gum	300L	30m	1
*Eucalyptus sideroxylon****	Mugga Ironbark	200L	15m	2
Olea Europea	Olive Tree	300L	4 - 8m	1
SHRUBS				
*Alyxia buxifolia**	Sea Box	200mm	1.5-2m	200
*Banksia ericifolia****	Heath-Leaved Banksia	200mm	2 - 7m	200
*Casuarina glauca 'greenwave'**	Casuarina Greenwave	200mm	2m	150
*Crowea saligna***	Willow Leaved Crowea	200mm	0.8 - 1m	150
*Eriostemon australasius****	Pink Wax Flower	200mm	0.6 - 2m	180
*Grevillea rosmarinifolia**	Rosemary Grevillea	200mm	0.75 - 1.5m	250
*Leptospermum laevigatum****	Coastal Tea Tree	200mm	4m	200
*Westringia fruticosa***	Coastal Rosemary	200mm	1m	200
GRASSES & FERNS				
*Doodia aspera***	Prickly Rasp Fern	150mm	0.4m	150
*Lomandra longifolia****	Spiny Mat-Rush	150mm	0.4 - 1m	370
*Pellaea falcata***	Sickle Fern	150mm	0.3m	80
GROUNDCOVERS				
*Carpobrotus glaucescens***	Pigface	150mm	0.1-0.3m	225
*Casuarina glauca 'Cousin It'**	Cousin It	150mm	0.1-0.3m	225
Juniperus horizontalis Glauca	Creeping Juniper	150mm	0.1-0.3m	30
Rosmarinus 'Irene'	Irene	150mm	0.1-0.3m	80
Senecio serpens	Chalksticks	150mm	0.1-0.3m	80
CLIMBERS				
*Hibbertia scandens****	Guinea Flower	150mm	0.1-0.3m	100
*Pandorea pandorana***	Wonga Wonga Vine	150mm	2 - 2m	120

*** ESBS

** Annexure B2-1 Indigenous species / Local Native

* Native

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ISS.	AMENDMENT	DATE	BY
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All tree dimensions and RLs in metres.
All RLs to Australian Datum
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with AUA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Hydraulic Details shall be subject to Hydraulic Engineer's Specifications, Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
Do not scale from drawing. Contact by 360 degrees for any variations in design, construction method, materials specified, and general specifications without permission from the Project Engineer or Landscape Architect.
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MORIAH COLLEGE Queens Park Rd, Queens Park NSW 2022		LB
SCALE	DRAWN	ISSUE
N/A	LB	SSDA

DWG. TITLE
PLANTING PALETTE - STREET FRONT, ENTRIES & BUILDING COURTYARD

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

L-DA-30

SHRUBS & FERNS

Westringia fruticosa

Callistemon 'White Anzac'

Santolina chamaecyparissus

Artemisia arborescens 'Powis Castle'

Doodia aspera

GRASSES, GROUNDCOVERS & CLIMBERS

Juniperus conferta

Senecio serpens

Rosmarinus 'Irene'

Viola hederacea

Casuarina glauca 'Cousin It'

KEY PLAN

- (J) JEWISH CULTURAL SIGNIFICANCE
- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
SHRUBS				
Artemisia arborescens 'Powis Castle'	Wormwood Powis Castle	200mm	0.6 -0.9m	15
*Callistemon 'White Anzac'***	White Anzac	200mm	0.5 - 1.5m	20
Santolina chamaecyparissus	Cotton Lavender	200mm	0.6m	15
*Westringia fruticosa***	Coastal Rosemary	200mm	1m	30
GRASSES & FERNS				
*Doodia aspera***	Prickly Rasp Fern	150mm	0.4m	15
GROUNDCOVERS				
*Casuarina glauca 'Cousin It'***	Cousin It	150mm	0.1-0.3m	60
Juniperus conferta	Shore Juniper	150mm	0.3m	30
Rosmarinus 'Irene'	Irene	150mm	0.1-0.3m	45
Senecio serpens	Chalksticks	150mm	0.1-0.3m	25
*Viola hederacea***	Native Violet	150mm	0.1-0.3m	30

*** ESBS
** Annexure B2-1 Indigenous species / Local Native
* Native

Moriah College
בית ספר הר המוריה

ISS.	AMENDMENT	DATE	BY
A	DRAFT Landscape Masterplan	17.09.19	LB
B	Landscape SSDA Report	01.10.19	LB
C	Landscape SSDA Report	10.10.19	LB
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IMPORTANT NOTES:
All discrepancies to be brought to the attention of the Landscape Architect.
Larger scale drawings and written dimensions take preference. All dimensions in mm unless otherwise stated.
All tree dimensions and RLs in metres.
Do not scale drawings.
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.
Refer Hydraulic Plans for all Stormwater Drainage Details.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesman according to Landscape Drawings and Specifications and Standards.
No responsibility will be taken by 360 degrees, for any variations in design, construction method, materials specified, and general specifications without permission from the Project Engineer or Landscape Architect.
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MORIAH COLLEGE
Queens Park Rd,
Queens Park NSW 2022

CHECKED
LB

SCALE	DRAWN	ISSUE
N/A	LB	SSDA

DWG. TITLE
PLANTING PALETTE - ROOF TERRACE

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 148 901 328

L-DA-31

TREES

Angophora costata

Banksia integrifolia

Banksia marginata

Banksia serrata

Corymbia gummifera

Corymbia maculata

Elaeocarpus reticulatus

Eucalyptus saligna

Eucalyptus sideroxylon

SHRUBS & GRASSES

Banksia ericifolia

Banksia aemula

Isopogon anemonifolius

Grevillea buxifolia

Kunzea ambigua

leptospermum laevigatum

Melaleuca nodosa

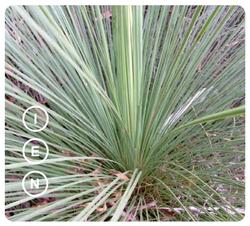
Persoonia lanceolata

Pimelea linifolia

Philorheca buxifolia

GRASSES, GROUNDCOVERS & CLIMBERS

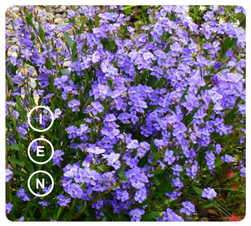
Dianella revoluta



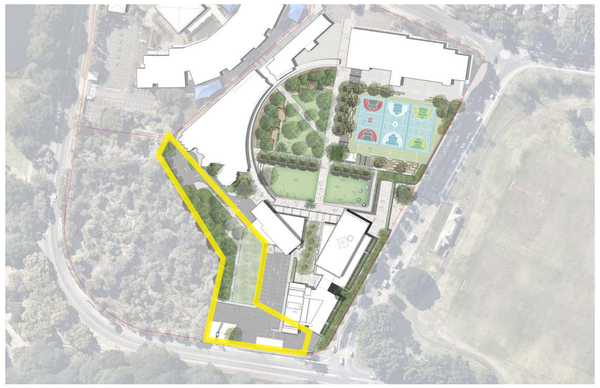
Xanthorrhoea resinosa

Lomandra longifolia

Myoporum parvifolium



Dampieria stricta



KEY PLAN

- (J) JEWISH CULTURAL SIGNIFICANCE
- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) LOCAL NATIVE / NATIVE

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
TREES & PALMS				
*Angophora costata****	Smooth-barked Apple	300L	20m	3
*Banksia integrifolia****	Coast Banksia	100L	4 - 15m	1
Banksia marginata ***	Silver Banksia	200mm	5m	4
*Banksia serrata****	Old Man Banksia	100L	3-15m	1
*Corymbia gummifera****	Red Bloodwood	300L	20m	1
*Corymbia maculata****	Spotted Gum	300L	30m	3
*Elaeocarpus reticulatus****	Blueberry Ash	200L	3-15m	2
*Eucalyptus saligna****	Sydney Blue Gum	100L	30m	2
*Eucalyptus sideroxylon****	Mugga Ironbark	100L	15m	1
SHRUBS				
Banksia aemula ***	Wallum Banksia	200mm	3 - 5m	325
Banksia ericifolia ***	Heath-Leaved Banksia	200mm	2 - 7m	445
*Grevillea buxifolia****	Grey Spider Flower	200mm	1 - 2m	325
*Isopogon anemonifolius****	Broad-leaved Drumsticks	200mm	1 - 1.5m	265
*Kunzea ambigua****	Tick Bush	200mm	2-3m	325
Leptospermum laevigatum ***	Coastal Tea Tree	200mm	4m	385
*Melaleuca nodosa****	Prickly-Leaved Paperbark	200mm	3m	205
*Philotheca buxifolia****	Box Leaf Waxflower	200mm	0.3m	265
*Pimelea linifolia****	Slender Rice Flower	200mm	1m	265
*Persoonia lanceolata****	Lance-Leaf Geebung	200mm	2m	445
GRASSES & GROUNDCOVERS				
*Dampiera stricta****	Blue Dampiera	150mm	0.3m	285
*Lomandra longifolia****	Spiny Mat-Rush	150mm	0.4 - 1m	1383
Xanthorrhoea resinosa ***	Grass Tree	200mm	0.6m	470
*Myoporum parvifolium**	Creeping Boobialla	150mm	0.2m	400

*** ESBS

** Annexure B2-1 Indigenous species / Local Native

* Native

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ISS.	AMENDMENT	DATE	BY
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fjmt

IMPORTANT NOTES:
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Discrepancies must be brought to the attention of the Landscape Architect.
Larger scale drawings and written dimensions take preference. All dimensions in mm unless otherwise stated.
All tree dimensions and RLs in metres.
All RL's to Australian Datum.
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with AUA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Stormwater, Drainage and Services shall be subject to Hydraulic Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
Do not scale from drawing. Subject to 360 degrees for any variations in design, construction method, materials specified, and general specifications without permission from the Project Engineer or Landscape Architect.
This Drawing is copyright to 360 degrees.

CLIENT		CHECKED
MORIAH COLLEGE Queens Park Rd, Queens Park NSW 2022		LB
SCALE	DRAWN	ISSUE
N/A	LB	SSDA

DWG. TITLE
PLANTING PALETTE - EARLY LEARNING CENTRE

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

L-DA-32

STANDARDS OF MAINTENANCE

- Maintain whole of landscape works from the date of practical completion of “Landscape Works”
- All work is to be performed in accordance with all applicable laws, ordinances and regulations required by authorities having jurisdiction over such work and are to provide for all inspections and permits required by Federal, State and Local Governments and Authorities in procuring and transporting materials.
- Unless otherwise specified, current relevant Australian Standards are to be observed.
- Ensure site is maintained in a safe, and as far as practicable, clean and tidy condition.
- Airborne dust is to be kept to a minimum.
- Ensure that no spillages or discharges of oil, fuel or other pollutants occur during servicing, refuelling or works operations.
- Driving of vehicles within council parks and reserves is to be minimised.
- Parking and driving of vehicles within TPZ is prohibited.
- Unless absolutely necessary to carry out works, the driving of plant and equipment in the following areas is to be avoided:
  - irrigated areas
  - landscaped areas
  - tree root zones
  - Council infrastructure areas.
- Access to open space areas for specific works is to be coordinated with the Superintendent.

RECTIFICATION OF DAMAGE

- Contractor is to rectify, at their own expense, any damage to landscaped areas, including compaction and wheel ruts
  - shrubs, plants and trees
  - footpaths
  - medians
  - kerb and channel
  - any other council or public property caused by maintenance operations or the movement of vehicles or plant.
- Uphold a no net loss of vegetation philosophy, and all plants that are damaged beyond rectification (as assessed by Project Arborist) are to be replaced at a minimum ratio of 1:1.
- If a tree is is removed in error or damaged beyond the point of rectification, a ‘no net canopy loss offset’ replacement is required. This offset considers the area of the tree canopy and number of new trees to achieve the same area of canopy within a given timeframe.

GENERAL MAINTENANCE

Throughout the planting establishment period, the Contractor is to carry out all maintenance work including:

- watering
- weeding
- rubbish removal
- fertilising
- pest and disease control
- reseeding
- staking and tying replanting
- cultivating
- pruning
- hedge clipping
- aerating
- mulch reinstatement
- renovation
- Trellis maintenance
- Provide the Superintendent with a report (at monthly intervals) of activities completed

WEED CONTROL

- Inspect garden beds and mass planting areas for weeds and rectify as required to prevent seeding, germination and competition.
- Weeds within tree basins are to be removed by hand.
- Retaining mulch levels within tree basins assists in keeping weed growth to a minimum.
- Stream banks, damp exposed areas and other weed prone areas are to have appropriate weed control measures enforced.
- Hand weeding should be part of an integrated approach to weed control, particularly if there is a possible risk to waterways or damaging desirable plant species.
- Avoid herbicide residue leaching into nearby waterways.
- Eradicate weeds using an approved herbicide.
- Adhere strictly to manufacturers application instruction, rates and safety procedures.
- Herbicides are to be applied outside normal operating areas, but not during extreme temperature or high wind periods.
- Watering is to be delayed for the recommended period after application.

PEST AND DISEASE CONTROL

- Immediate notice is to be given to Superintendent when evidence of significant insect attack or disease amongst plant material is found.
- If pests and diseases are identified, affected portions are to be removed from the plant and disposed of off site.
- Chemical methods are to be secondary control measures where pruning is not successful. Where required, spray with non-toxic organic pesticide, fungicide, or both, at the discretion of the Superintendent / Arborist.
- Approval is to be obtained from Superintendent 5 days prior to the use of pest and disease control chemicals.
- Adhere strictly to manufacturers application instructions, rates and safety procedures.
- Pesticides are to be applied outside normal operating hours.
- Pesticides are not to be applied during extreme temperature, high wind or rain periods.
- Irrigation is to be delayed for the recommended period after application.

LITTER COLLECTION AND REMOVAL

- Waste from contractors activities is to be removed from site.
- In hardstand areas, vegetative matter is to be removed from around trees and shrubs.
- Mulch spilt from garden areas is to be reinstated
- Collection of all hard waste and litter from within the subject site
- Sweep/vacuum leaf litter

WATERING

- Mass planted areas, trees and palms are to be sufficiently watered to maintain adequate soil moisture during the specified maintenance period. This should be achieved using low pressure with adequate volume.
- Generally every two to three days in summer.
- Generally every three to four days in winter.
- Allow soil surface to partially dry out between watering.
- Watering shall be increased during periods of wind, drought and/or where soils have low moisture retaining characteristics.
- Rates may be decreased during periods of high rainfall.
- Ensure moisture is maintained in planting media in sufficient quantities to promote plant growth and minimise stress after installation.
- Watering is to be prioritised for early morning or night application to lessen evaporation.
- Water used for plant establishment and maintenance is to have:
  - a pH of between 5.5 – 7.5
  - total soluble salts less than 1000mg/L
  - no phytotoxic substances.

PLANT MAINTENANCE

GENERAL PRUNING

- Prior to pruning activities, plants are to be evaluated for natural growth habit and relationship to total landscape.
- Shrubs and groundcovers are to be pruned to encourage natural plant form.
- Smooth, clean cuts are to be used to encourage fast healing.
- Equipment is to be sharp and sized appropriately for pruning requirements.
- Generally, plants are to be pruned after flowering.
- The combined techniques of thinning out and dead heading are to be used to encourage natural growth habit.
- Remove dead organic matter and diseased plant material.
- Remove branches and foliage overhanging pavements and paths, in line with current standards for road and footpath clearances.
- All vines and creepers are to be pruned to keep clear of all tree trunks and canopies

SPECIFIC PRUNING TECHNIQUES

- Shrubs
- Prune in a manner that encourages natural form.
- Allow skirt to grow down to ground level.
- Do not prune off bottom growth.
- Groundcovers
- Prune to encourage dense coverage.
- Vines
- Encourage horizontal spread by removing vertical growth.
- Allow spreading to form a dense mat.
- Trim groundcovers in planter boxes to formalise cascading beyond the planter.
- Prune to keep the height and spread in scale with surrounding planter boxes and remove runners that have a tangled appearance

FERTILISING

- A general purpose fertiliser is to be applied as per the manufacturers application instructions, rates and safety procedures.
- Soils are to be moist.
- Irrigation systems or hand held hoses are to be used to wash excess fertiliser from plants to prevent burning.
- Landscaped areas are to have repeat irrigation the morning following the fertiliser application.

REPLACEMENT

- Where plants fail or die during the ‘on maintenance’ period, it is the contractors responsibility to replace those plants, as soon as practicable.
- Approval is required by the Superintendent prior to purchasing and planting of replacement plants.
- Replacement plants are to be the same size as described in the contract, plant schedule and/or landscape drawings.

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C	Landscape SSDA Report	10.10.19	LB
D	Amended Landscape SSDA Report	16.04.20	LB

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IMPORTANT NOTES:
All discrepancies to be brought to the attention of the Landscape Architect.
Larger scale drawings and written dimensions take preference. All dimensions in mm unless otherwise stated.
All tree dimensions and RLs in metres.
Do not scale drawings.
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.
Refer to Hydraulic Engineer's Drawings for all Stormwater.
Drainage & Water Feature Details shall be subject to Hydraulic Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesman according to Landscape Drawings and Specifications and Contract.
No responsibility will be taken by 360 degrees, for any variations in design, construction method, materials specified, and general specifications without permission from the Project Engineer or Landscape Architect.
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LANDSCAPE MAINTENANCE STATEMENT

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TREE MAINTENANCE

GENERAL PRUNING

- All tree pruning, maintenance, pest and disease control, etc. is to be undertaken under the guidance and supervision of a council approved Arborist.
- Prior to commencing any pruning operation, evaluate trees for their natural growth habit and relationship to the total landscape.
- Pruned trees are to be left in an aesthetically pleasing condition.
- Trees are to maintain a shape and character appropriate for the species and the environment.
- Tree pruning may be required to:
  - enhance tree health and structure
  - reduce failure risk
  - meet specified clearance requirements
  - meet traffic visibility requirements
  - improve form
  - encourage growth direction in young trees.
- Pruning is to be undertaken by a qualified Arborist, experienced in the formative pruning of young trees and in a manner that minimises damage to trees, in accordance with AS 4373:2007 – Pruning of Amenity Trees.
- Key elements of this include:
  - no lopping or topping of trees
  - no flush cuts
  - no greater than 25% of tree crown removed.
- generally to be pruned to maintain clearances and access beneath the canopy
- remove lower branches where required, to provide clearance over footpaths and roads to improve visibility and maintain CPTED guidelines
- remove dead, diseased or damaged limbs
- remove suckers from the base of tree
- improve the structure of tree, e.g. pruning to define a leader in a codominant tree.
- formative pruning works are to focus on defining a leading stem or to improve the overall branching framework or structure of a tree.

DAMAGE

- Where damage occurs to trees as a result of the actions of the contractor, the contractor will be held responsible for the repair or replacement of tree or palm stock.

DISPOSAL OF PLANT MATERIAL

- Dead timber, dead trees and large diameter trunks are to be removed from site by the contractor and delivered to green waste dumps
- Contaminated or infected materials must be taken directly to a tipping site

SOIL AERATION

- Deep aeration of the soil should be conducted to decompact tree root zones, where required.
- Equipment that uses compressed air to fracture the soil is to be utilised for decompaction work e.g. Air spade or equivalent.

FERTILISiNG

Large trees:

- Core 50mm holes around the drip line perimeter 500mm apart and 500mm deep.
- Backfill holes with a mixture of 50% soil and 50% Dynamic Lifter (or equivalent) granular form.
- Use a liquid soil injection system at the same spacing around the dripline, as described above.

Smaller, young trees:

- Surface fertiliser with Dynamic Lifter (or equivalent) and cultivate lightly into the ground surface.

RE-MULCHING

- Replenish mulched areas to maintain a consistent depth of 75mm–100mm.
- Mulch used is to match originally specified material.
- Mulch is to be raked to an even surface to the level of the surrounding finish.
- Spread mulch so that after settling it is smooth and evenly graded toward the base of plant stems, forming a shallow dish drain with the aim of preserving soil moisture, providing essential soil nutrients and suppressing weed growth.
- Mulch is not to be closer than 100mm from the plant stem / trunk

REPLACEMENT

- Replacement trees or palms are to be the same size and type as described in the contract

ROOF TERRACE PLANTING MAINTENANCE

Routine maintenance of the vertical mesh trellis systems are to be undertaken only by the manufacturer/provider or their nominated personnel. Following completion of the 'on' maintenance period, the contractor is to provide a detailed maintenance manual for the system. During the maintenance period, site visits are to be undertaken on a weekly basis for the initial period of 8 weeks post practical completion, then reducing to bi-monthly visits. Below is a summary of the observations and actions that are to be carried out during each visit.

Observations

- Comment on plant performance, make note of each species in reference to their appearance since last visit.
- Look for damage resulting from pests or disease on each species
- Check growth rate and performance
- Soil moisture level

Actions

- Check and adjust as appropriate pH or nutrient levels of the soil
- Treat for pests and disease as necessary
- Remove irrigation filter and clean (monthly)
- Adjust irrigation rates according to season and external factors
- check for dead or unhealthy foliage and remove using appropriate methods to avoid risk of infection to plants
- prune any plants that are growing too far from intended cable system
- Trim plants as necessary to encourage lateral or branching growth to avoid woody understory
- Remove weeds

Recording

- Observations of plant performance
- Current irrigation schedule and adjustments
- Document pictures
- Additions of nutrients etc
- Pest or disease presence and treatment

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Discrepancies must be brought to the attention of the Landscape Architect.
Larger scale drawings and written dimensions take preference. All dimensions in mm unless otherwise stated.
All tree dimensions and RLs in metres.
All RL's to Australian Datum.
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specification.
Waterproofing shall be carried out in accordance with Waterproofing Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesman according to Landscape Drawings and Engineer's Specifications.
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‘ON’ MAINTENANCE ACTIVITY SCHEDULE (ESTABLISHMENT & DEFECTS LIABILITY PERIOD)

ACTIVITY	OTHER	WEEKLY		MONTHLY	3 MONTHS	6 MONTHS	ACTION
GENERAL							
Logbook		⦿ Summer	⦿ Winter				Complete a logbook entry of maintenance work every day at site and at least every two weeks. All actions listed below require a logbook entry. Include details of any chemicals used. Make the log book available for inspection on request. Submit copies of new entries in the logbook to the Contract Administrator on a monthly basis.
PLANTS							
Plants		⦿ Summer, Winter during weeks 1-12 from Practical Completion	⦿ Winter after 12 weeks from Practical Completion				Inspect all garden beds and planter boxes and attend to all softworks maintenance requirements as required. Inspect and remove spent flowers and dead stalks as they become apparent.
Hand Watering	Every day irrigation does not run during weeks 1-12 after Practical Completion. Afterwards as required.						Supplement irrigation with handwatering during the establishment period. Watering will be dependant on plant requirements, seasonal changes and prolonged periods of dry and windy weather. Adjust as required for optimal plant growth. Do not allow soil and plants to dehydrate. Water in the early morning or late afternoon to avoid excessive evaporation during the heat of the day. Comply with authority regulations for water use where applicable.
Stakes and Ties		⦿ Summer	⦿ Winter				Inspect and adjust and/ or replace as necessary but remove as plants mature and are able to support themselves.
Trailing Plants		⦿ Summer	⦿ Winter				Inspect groundcovers are trailing and train or prune as required
Overgrown vegetation		⦿ Summer	⦿ Winter				Inspect and remove overgrown vegetation including that growing on paths and hardscapes
Pruning		⦿ Summer	⦿ Winter				Inspect and prune as necessary to remove dead wood, improve plant shape and promote healthy vigorous new growth.
Leaf Litter		⦿ Summer	⦿ Winter				Remove leaf litter as necessary
Pest and Disease Control		⦿ Summer	⦿ Winter				Inspect and action as necessary. Use pesticides only if non-chemical methods will not be effective. Spray for disease control only when absolutely necessary.
Plant Replacement		⦿ Summer	⦿ Winter				Inspect and replace failed, damaged or stolen plants within 2 weeks of observation. Match species, original size and location of new with old.
Fertilising					⦿		Fertilise gardens every 3 months or other frequency in accordance with fertiliser manufacturer’s directions.

GARDEN BEDS AND PLANTER BOXES							
Weeding		⦿ Summer	⦿ Winter				Remove all weeds and dispose off site legally
Erosion Control		⦿ Summer	⦿ Winter				Inspect and repair ground, soil and mulch immediately. Maintain erosion control device as necessary.
Remulching		⦿ Summer	⦿ Winter		⦿ Topup		Inspect and replace mulch deficiencies within 2 weeks of observation. Prior to placing new mulch aerate the soil by fork turning to a depth of at least 100mm, roughly level the soil and then place mulch. Do not disturb major plant roots while aerating soil. Top up mulch every 3 months.
Soilworks					⦿		Check soil depths for slumping and top up to design levels using original specified soils
IRRIGATION AND DRAINAGE							
Inspect irrigation system		⦿ Summer	⦿ Winter				Inspect and adjust the irrigation system to suit plant requirements, seasonal changes and prolonged periods of dry and windy weather.
Inspect and clear drains			⦿				Inspect clear drains immediately. Additional inspections are required after heavy rainfall.
HARDWORKS							
Inspect all fixtures and fittings		⦿					Inspect and adjust all fixtures and fittings to original specification. Replace as necessary
Oil timber						⦿	Oil timber every 6 months or to manufacturer’s recommendations
MISCELLANEOUS WORKS							
Litter		⦿					Remove all litter, rubbish and debris and the like offsite. Dispose of legally. Do not place in public or other residents bins.
Clean Site		⦿					Remove all grass clippings, weeds, dead plant material and the like offsite. Dispose of legally. Do not place in public or other residents bins.
Urgent Works							As required. Complete immediately and within 24hrs of notification

‘ON’ MAINTENANCE IRRIGATION SYSTEM MINIMUM REQUIREMENTS

IRRIGATION	SUMMER	WINTER	ACTION
WEEKS 1-12 AFTER PC			
Plants	4x per week 20mins each run at 5am	3x per week 20mins each run at 5am	Inspect irrigation system weekly at a minimum and adjust to suit zoning and plant requirements, seasonal changes and prolonged periods of wet or dry and windy weather.
AFTER 12 WEEKS FROM PC			
Plants	3x per week 20mins each run at 5am	3x per week 20mins each run at 5am	Inspect irrigation system weekly at a minimum and adjust to suit zoning and plant requirements, seasonal changes and prolonged periods of wet or dry and windy weather.

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All RL's are approximate.
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Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with AUA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specification.
Hydraulic Details shall be subject to Hydraulic Engineer's Specifications, Engineer's Specifications.
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