

6 HALIFAX ST, MACQUARIE PARK DEVELOPMENT APPLICATION S4.55

2023011: LANDSCAPE ARCHITECTURAL DRAWING LIST

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LANDSCAPE S4.55 DESIGN STATEMENT

Objectives:

- to increase the number of indigenous species planted in the Macquarie Park / Ryde LGA region
- to eliminate the use of noxious weeds of potentially invasive species in developments
- to use plants in such a way to foster energy efficient development that relies on passive energy principles for heating and cooling
- to reduce maintenance and water consumption through appropriate species selection
- to create buffer zones and add to existing areas of remnant vegetation with locally indigenous species.

Principles

- Enhance the appearance and amenity of the proposed residential development by sensitively integrating architecture and landscape through effective site planning and landscape design.
- Consolidate the open space into a coherent landscape treatment that provides visual amenity from above and below.
- Take forward the landscape principles and urban design principles established by the Site specific DCP by Ryde Council to Establish a visually and environmentally sensitive landscape, complimentary to the architectural vision and greater urban setting, while providing high quality private spaces for residents and visitors.
- Provide new tree planting that ameliorates the building scale and offers environmental benefit through micro climate.
- Create a garden terrace on level 1 with both integrated seating areas & engaging social gathering spaces

Access, Egress & Connectivity

All fire exits are located near or adjacent to key pathways, pedestrian links and streetscapes promoting safe egress and evacuation if and when required. Definition of a hierarchy of pedestrian pathways has been created to ensure numerous access points and circulation options for the local community.

CPTED, Safety & Visibility

All raised edges & planter walls are at seating height or lower allowing clear sight-lines and visibility throughout the ground plane. Trees are used to frame spaces and ensure clear visibility to and from the streetscape at all times.

Universal Access & DDA Compliance

The ground plane offers full universal accessibility to all reception, lobby and retail areas at maximum 1:21 grades reducing the amount of handrails and clutter in the public realm. Deep Soil, Soil Depths on Podiums & Permanent Planting All planters have a minimum soil depth of 600mm including slab setdowns. This allows planter walls to be at low heights promoting visual permeability and ADG soil depths for trees achieved through additional 1:3 mounding to raised planter beds

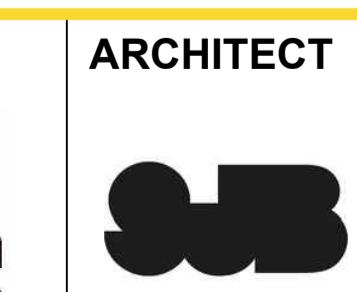
For deep soil calculations - refer to architectural design report

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2 S4.55	RL	RI	RI 08.07.25
1 DEVELOPMENT APPLICATION	RL	RI	RI 24.01.24

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Drawn Job Manager Project Director Date



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Original Size

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Drawing No: **LD-DA000**

Rev: 2

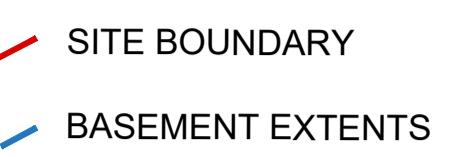


HALIFAX - LANDSCAPE PLANTING SCHEDULE DEVELOPMENT APPLICATION

CODE	SPECIES	COMMON NAME	ORIGIN	POT SIZE	EST. MATURE HT	INSTALL SIZE	SPACING
TREES GROUND FLOOR							
ELA ret	Eleocarpus reticulatus	Blueberry Ash	Native	200L	6-8m	2.2x1.0m	As Shown
LIV aus	Livistona australis	Cabbage-tree palm	Native	200L	15-20m	2.2x1.0m	As Shown
CIT lim	Citrus limon 'Eureka Lemon'	Lemon Tree	Exotic	200L	6-8mm	2.2x1.0m	As Shown
BAN int	banksia integrifolia	Coastal banksia	Native	200L	10-15m	2.2x1.0m	As Shown
ACA lon	Acacia longifolia	Sydney Golden Wattle	Native	200L	6-8m	1.5x1.0m	As Shown
ANG cos	Angophora costata	Sydney Red Gum	Native	200L	15-30m	2.2x1.0m	As Shown
EUC pip	Eucalyptus piperita	Peppermint Gum	Native	200L	15-20m	2.2x1.0m	As Shown
CYA coo	Cyathea cooperi	Australian Tree Fern	Native	200L	6-10m	2.5x1.0m	As Shown
EUC pun	Eucalyptus punctata	Grey Gum	Native	200L	15-20m	1.5x1.0m	As Shown
SYN glo	Syncarpia glomulifera	Turpentine	Native	200L	15-20m	1.5x1.0m	As Shown
DIC ant	Dicksonia antarctica	Man Fern	Native	200L	10-15m	1.5x1.0m	As Shown
WAT flo	Waterhousia floribunda	Weeping Lilly Pilly	Native	200L	6-8m	1.5x1.0m	As Shown
MIX TYPE 1 - FULL SUN / PART SHADE							
SHRUBS							
CAL vim	Callistemon viminalis 'Better John' LJ 1'	Bottlebrush	Native	200mm	0.6-1.2m	300mm	2 per m ²
HEL pet	Helichrysum petiolare 'Limelight'	Licorice Plant	Exotic	300mm	0.5m	300mm	2 per m ²
BAN spi	Banksia spinulosa	Hairpin Banksia	Native	300mm	2m	300mm	2 per m ²
BAN rob	Banksia robur	Swamp Banksia	Native	300mm	3-4m	300mm	2 per m ²
CAL lin	Callistemon linearis	Narrow Leaf Bottlebrush	Native	300mm	1-2m	300mm	2 per m ²
BAN eric	Banksia ericifolia	Heath Lantern Banksia	Native	300mm	2-4m	300mm	2 per m ²
WES fru	Westringia fruticosa 'Grey Box' WES04	Coastal Rosemary	Native	300mm	1m	300mm	2 per m ²
DOD tri	Dodonaea triquetra	Common Hop Bush	Native	300mm	3m	300mm	2 per m ²
GRASSES							
POA lab	Poa labillardieri 'Eskdale'	Poa	Native	150mm	60cm x 50cm	100mm	3 per m ²
PEN naf	Pennisetum alopecuroides 'Nafray'	Foxtail Grass	Native	150mm	60cm x 60cm	100mm	3 per m ²
LOM lon	Lomandra longifolia 'LM400'	Matt Rush	Native	150mm	60cm x 60cm	200mm	3 per m ²
DIA cae	Dianella caerulea	Blue Flax Lily	Native	150mm	0.5m	200mm	3 per m ²
LOM tan	Lomandra tanika	Spiny Mat Rush	Native	150mm	1.2m	200mm	3 per m ²
CLIMBERS + GROUNDCOVERS							
CAR gla	Carpobrotus glaucescens 'CAR10'	Aussie Rambler	Native	150mm	200mm	100mm	4 per m ²
VIO hed	Viola hederacea	Native Violet	Native	150mm	200mm	100mm	4 per m ²
GAZ tom	Double Gold™ Gazania hybrid 'GT20'	Gazania	Native	150mm	200mm	100mm	4 per m ²
MYO par	Myoporum parvifolium 'Yareena'	Creeping boabialla	Native	150mm	200mm	100mm	4 per m ²
HED hel	Hedera helix	English Ivy	Exotic	150mm	200mm	100mm	4 per m ²
MIX TYPE 2 - PART SHADE / SHADE TOLERANT							
SHRUBS							
ALP cae	Alpinia caerulea	Native Ginger	Native	300mm	1-3m	500mm	As Shown
STR jun	Strelitzia juncea	Narrow Leaved Birds of Paradise	Native	300mm	1-3m	500mm	As Shown
COR ter	Cordyline terminalis rubra	Cordyline rubra	Native	200mm	1m x 1.5m	300mm	As Shown
GAR jas	Gardenia jasminoides	Cape Jasmine	Native	200mm	1m x 1m	300mm	As Shown
PHI xan	Philodendron xanadu	Xanadu Philodendron	Native	200mm	1m x 1m	300mm	As Shown
RHA exc	Rhapis excelsa	Broadleaf lady palm	Native	200mm	4m x 2m	300mm	As Shown
STR nic	Strelitzia nicolai	Giant White Bird of Paradise	Native	200mm	6m x 4m	300mm	As Shown
CYC rev	Cycas revoluta	Sago Palm	Native	300mm	1m	300mm	As Shown
GRASSES							
CLI min	Clivia miniata	Bush Lily	Native	150mm	60cm x 50cm	100mm	3 per m ²
PEN naf	Pennisetum alopecuroides 'Nafray'	Foxtail Grass	Native	150mm	60cm x 60cm	100mm	3 per m ²
LOM lon	Lomandra longifolia 'LM400'	Matt Rush	Native	150mm	60cm x 60cm	200mm	3 per m ²
LIR mus	Liriope muscari 'Evergreen Giant'	Giant Liriope	Exotic	150mm	0.4m x 0.6m	100mm	4 per m ²
CLIMBERS + GROUNDCOVERS							
LOM gla	Lomandra glauca	Pale Mat Rush	Native	150mm	0.3m x 0.6m	100mm	4 per m ²
PLE par	Plectranthus parviflorus	Cockscomb Flower	Native	150mm	0.2m x 0.6m	100mm	4 per m ²
HED hel	Hedera helix	English Ivy	Exotic	150mm	200mm	100mm	4 per m ²
VIO hed	Viola hederacea	Native Violet	Native	150mm	0.2m x 0.5m	100mm	4 per m ²
ZOY ten	Zoysia tenuifolia	No - Mow Grass	Native	150mm	0.2m x 0.6m	100mm	4 per m ²
MIX TYPE 3 - FAÇADE PLANTERS							
CAS gla	Casuarina glauca 'Cousin It'	Cousin It	Native	150mm	150mm	100mm	3 per m ²
CAR gla	Carpobrotus glaucescens 'CAR10'	Aussie Rambler	Native	150mm	200mm	100mm	3 per m ²
POA pol	Poa poiformis	Blue Tufted Grass	Native	150mm	0.2m x 0.6m	100mm	3 per m ²
PEN naf	Pennisetum alopecuroides 'Nafray'	Foxtail Grass	Native	150mm	60cm x 60cm	100mm	3 per m ²
WES fru	Westringia fruticosa 'Grey Box' WES04	Coastal Rosemary	Native	300mm	1	300mm	3 per m ²
POA lab	Poa labillardieri 'Eskdale'	Poa	Native	150mm	60cm x 50cm	100mm	3 per m ²
HED hel	Hedera helix	English Ivy	Exotic	150mm	200mm	100mm	4 per m ²

LANDSCAPE PLANS

LEGEND



+ RL 67.85 PROPOSED NOMINAL DESIGN LEVELS:
REFER TO ENGINEERS DRAWINGS

+ TW 450 TOP OF WALL HEIGHT (mm)

+ TM 800 TOP OF MOUND HEIGHT (mm)
(MAX 1:3 GRADE)

+ SD 800 TOTAL SOIL DEPTH INCLUSIVE OF
STRUCTURAL SLAB SETDOWN (mm)

-SSL 200 STRUCTURAL SLAB SETDOWN (mm)

EXISTING TREE TO BE RETAINED

EXISTING TREE TO BE REMOVED

PROPOSED TREES - REFER TO PLANTING
PALETTE

PA PLANTED AREA ON GRADE - REFER TO
PLANTING SCHEDULE

RPA RAISED PLANTER AREA ON SLAB - SOIL
DEPTH SOIL DEPTHS TO ADG STANDARDS

GR NON-TRAFFICABLE GREEN ROOF

SW SEATING WALL

W1 WALL TYPE 1: PLANTER WALLS

P1 PAVING TYPE 1: PAVERS ON NATURAL
GRADE

P2 PAVING TYPE 2: PAVERS ON NATURAL
GRADE (VEHICULAR GRADE)

P3 PAVING TYPE 3: CRAZY PAVERS

P4 PAVING TYPE 4: PAVING ON PEDESTALS

TD COMPOSITE TIMBER DECKING

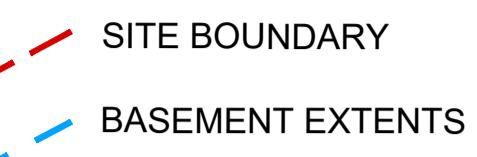
BT TALL BENCH TOP

FE1 1.2m HIGH BALUSTRADE

BR BIKE RACKS

TREE MANAGEMENT PLAN

LEGEND



+ RL 67.85 PROPOSED NOMINAL DESIGN LEVELS:
REFER TO ENGINEERS DRAWINGS

+ TM 800 TOP OF MOUND HEIGHT (mm)

+ SD 800 TOTAL SOIL DEPTH INCLUSIVE OF
STRUCTURAL SLAB SETDOWN (mm)

-SSL 200 STRUCTURAL SLAB SETDOWN (mm)

EXISTING TREE TO BE RETAINED

EXISTING TREE TO BE REMOVED

PROPOSED TREES - REFER TO PLANTING
PALETTE

PA PLANTED AREA ON GRADE - REFER TO
PLANTING SCHEDULE

RPA RAISED PLANTER AREA ON SLAB - SOIL
DEPTH SOIL DEPTHS TO ADG STANDARDS

GR NON-TRAFFICABLE GREEN ROOF

SW SEATING WALL

W1 WALL TYPE 1: PLANTER WALLS

P1 PAVING TYPE 1: PAVERS ON NATURAL
GRADE

P2 PAVING TYPE 2: PAVERS ON NATURAL
GRADE (VEHICULAR GRADE)

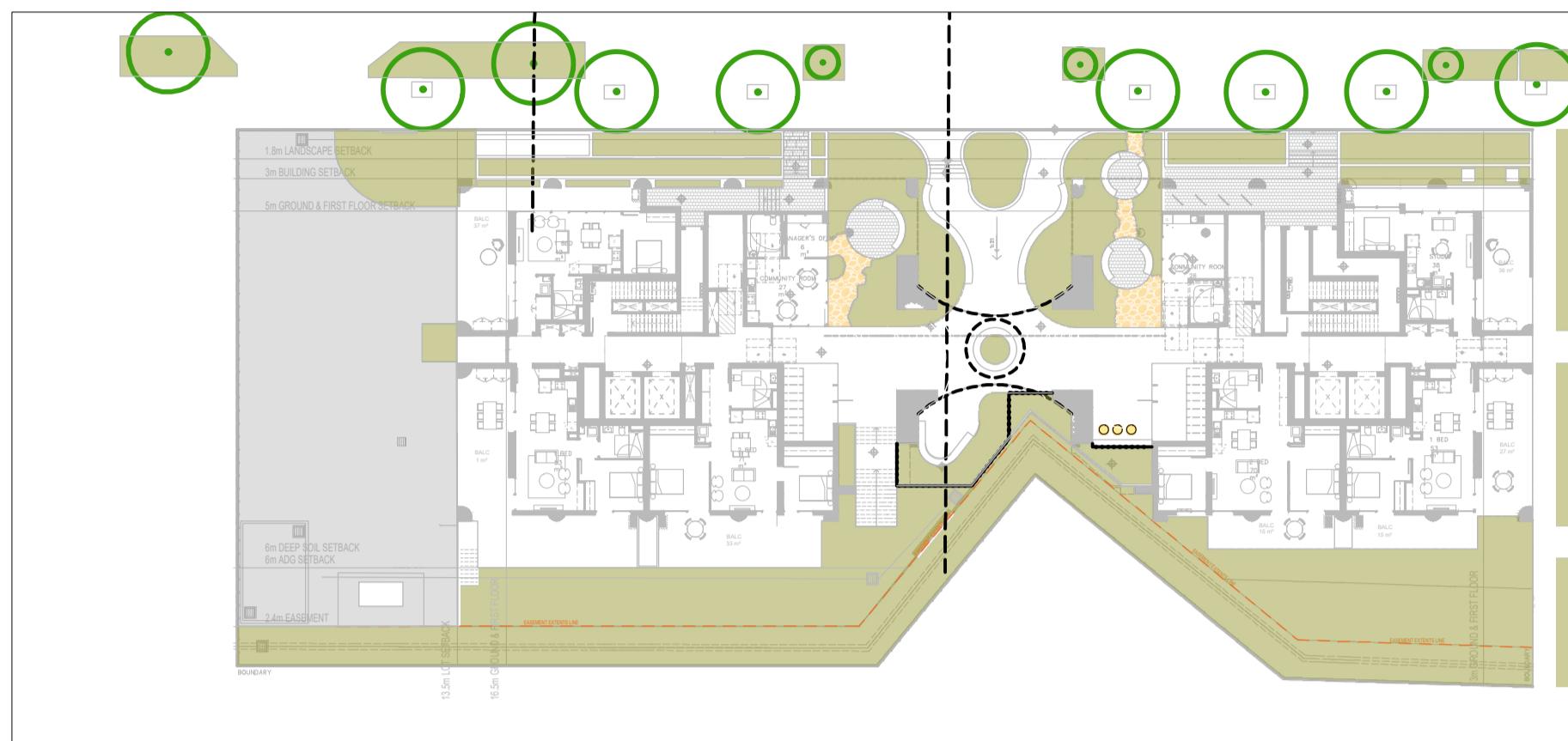
P3 PAVING TYPE 3: CRAZY PAVERS

P4 PAVING TYPE 4: PAVING ON PEDESTALS

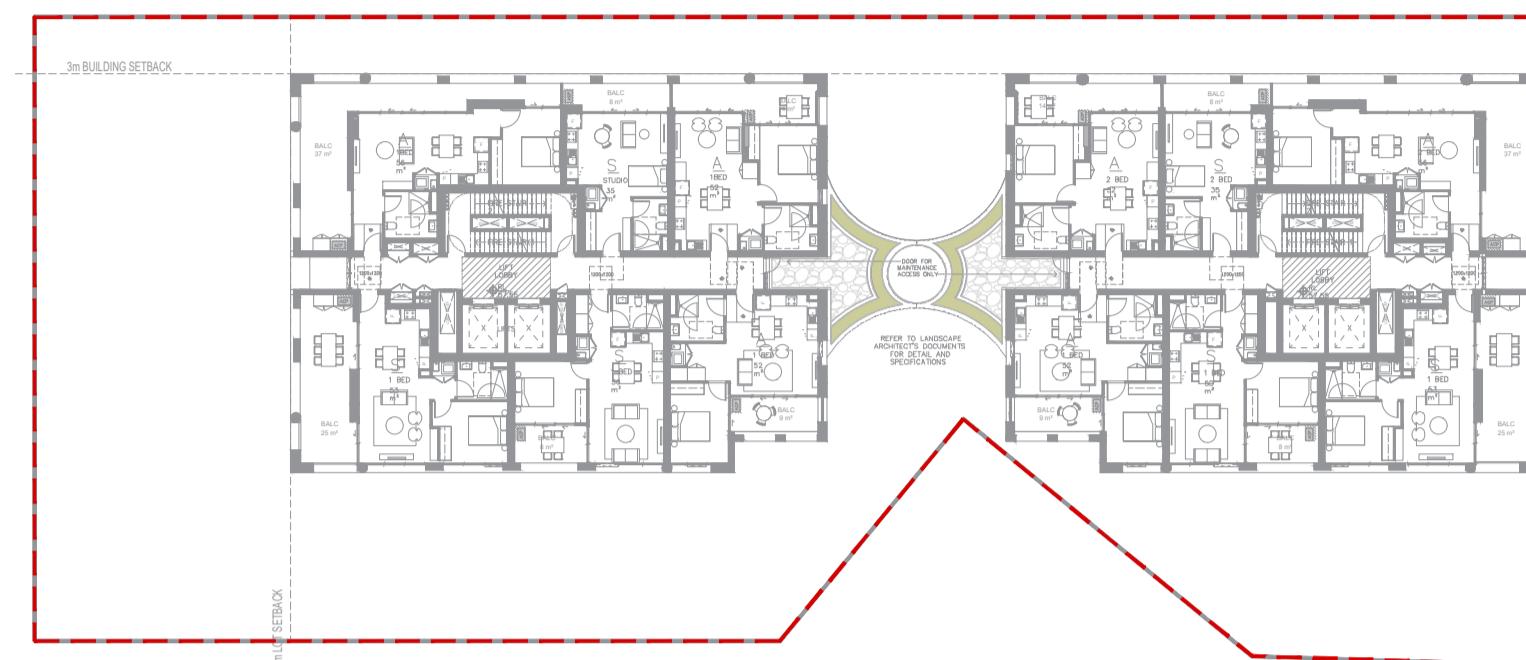
TD COMPOSITE TIMBER DECKING

BT TALL BENCH TOP

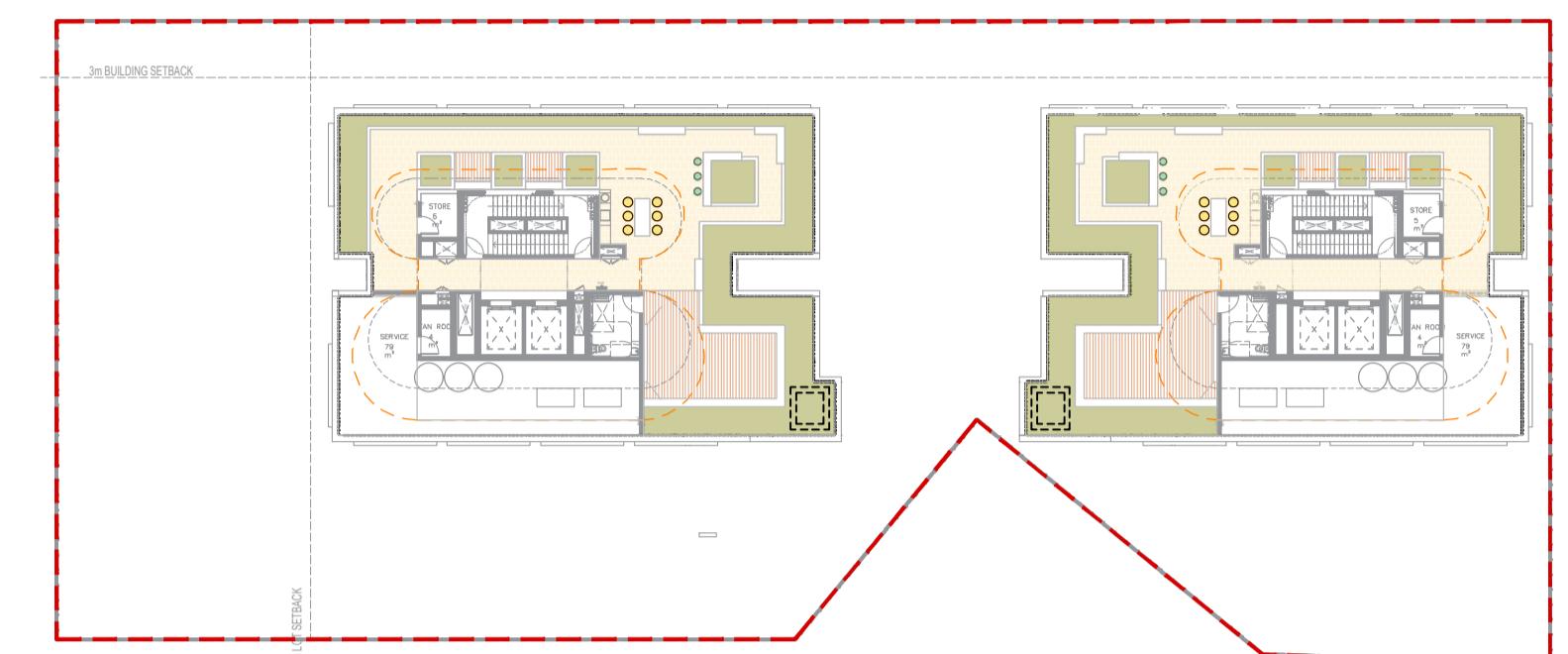
FE1 1.2m HIGH BALUSTRADE



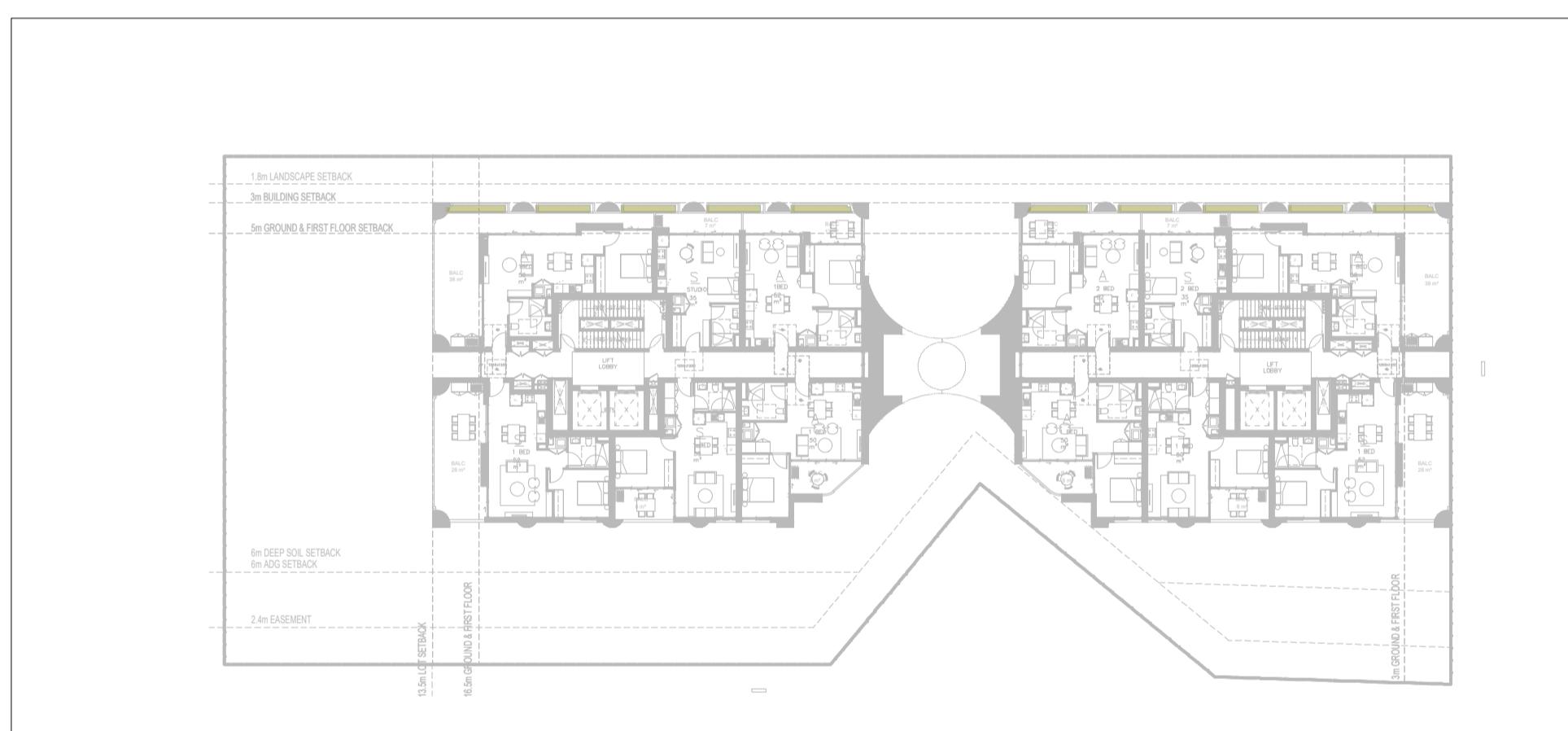
GROUND FLOOR - LANDSCAPE AREA = 762.8M²



LEVEL 2 LANDSCAPED AREA = 12.7M²



ROOFTOP LANDSCAPE AREA = 181M²



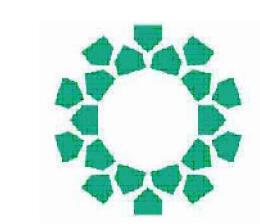
LEVEL 1 FACADE PLANTERS = 18M²

TOTAL LANDSCAPE AREA = 975M² = 38.8%

2	S4.55	RL	RI
1	DEVELOPMENT APPLICATION	RI	CR
No	Revision	Job Manager	Project Director

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LANDSCAPE

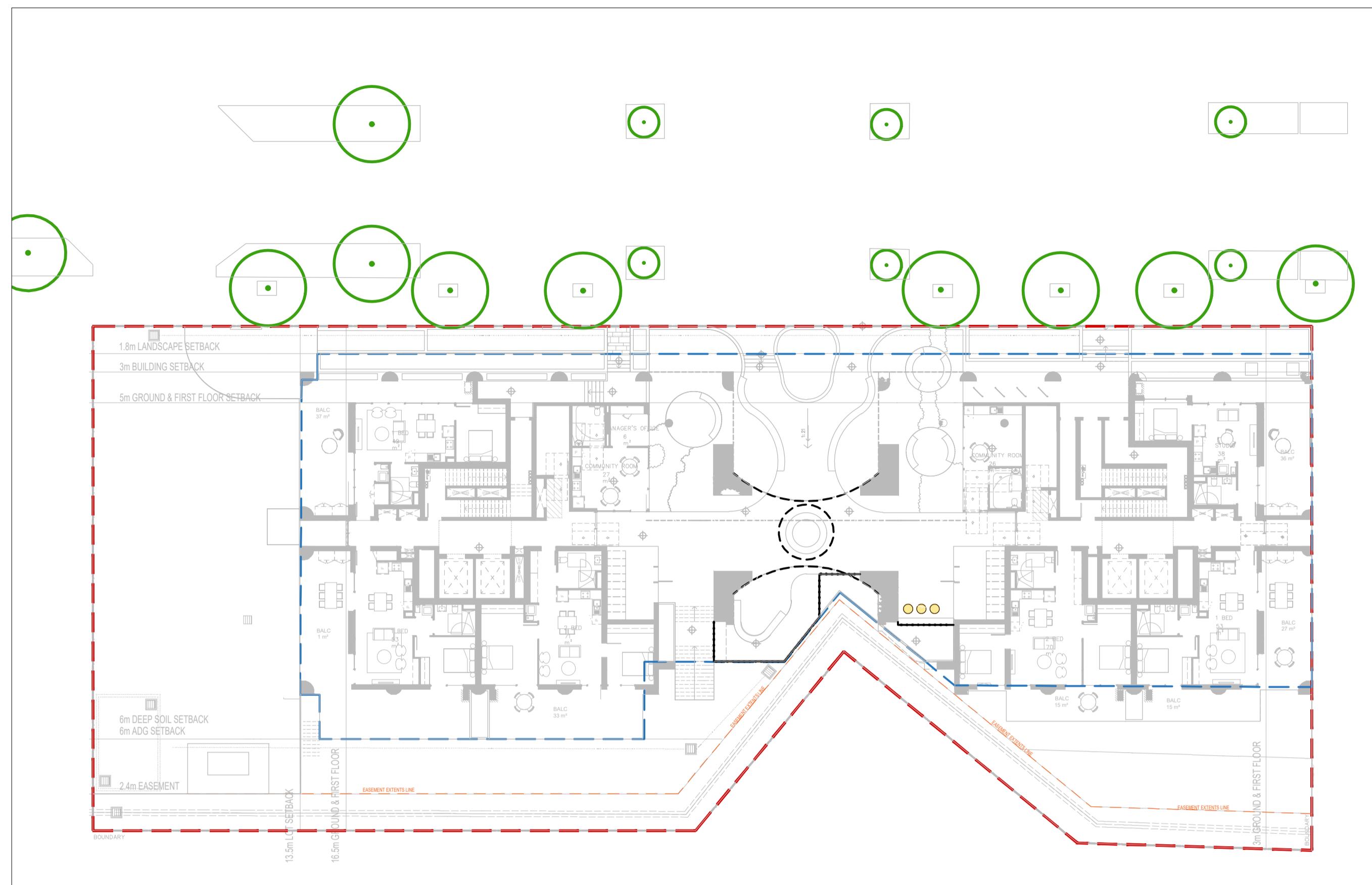

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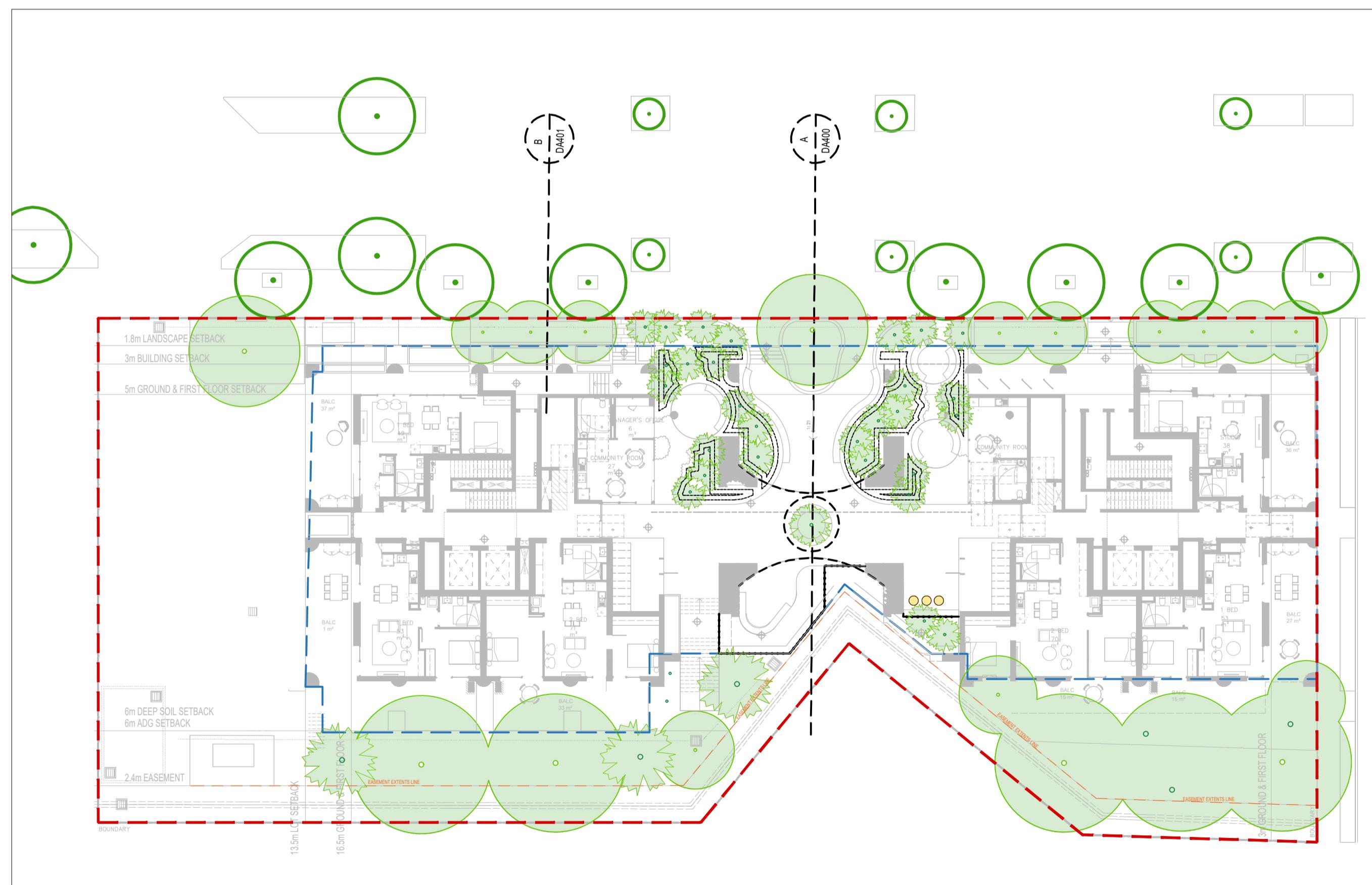
Client
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**LINK WENTWORTH
 6 HALIFAX ST, MACQUARIE PARK
 COMPLIANCE - LANDSCAPED AREA**

Original Size
A1 Drawing No: **LD-DA002**

Rev: **2**

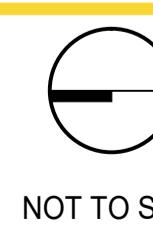


GROUND FLOOR - EXISTING TREE CANOPY = 0



GROUND FLOOR - PROPOSED TREE CANOPY = 659M2

2	S4.55	RL	RI	RI 08.07.25
1	DEVELOPMENT APPLICATION	RI	CR	CR 24.01.24
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LINK WENTWORTH
6 HALIFAX ST, MACQUARIE PARK

COMPLIANCE - TREE CANOPY COVERAGE

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A1

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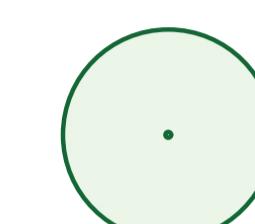
EXISTING

EXISTING TREE CANOPY

EXISTING TREE CANOPY = 0

TOTAL SITE COVERAGE = 0

PROPOSED



PROPOSED TREE CANOPY

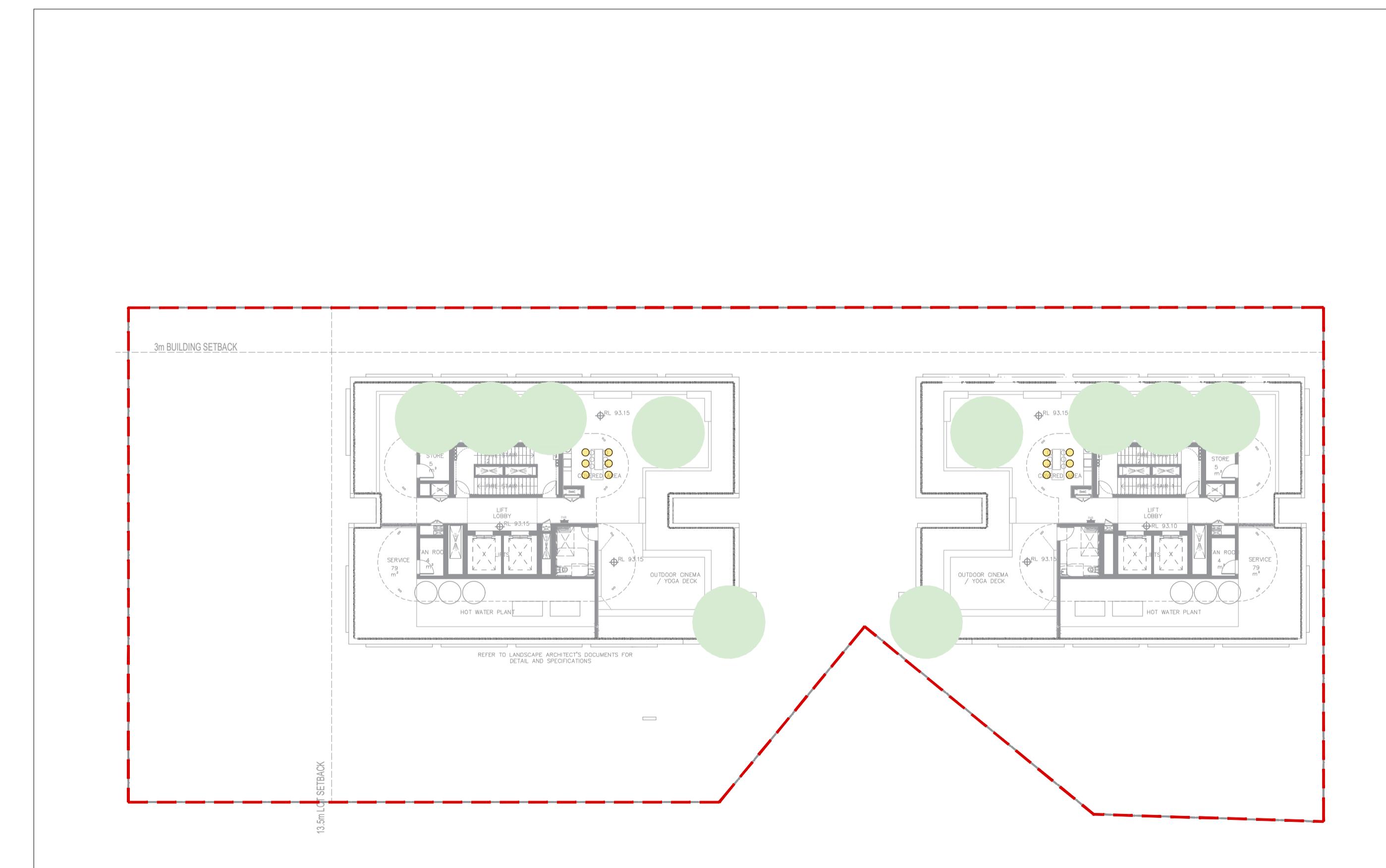
TREE CANOPY COMPLIANCE

GF PROPOSED TREE CANOPY = 659 M2

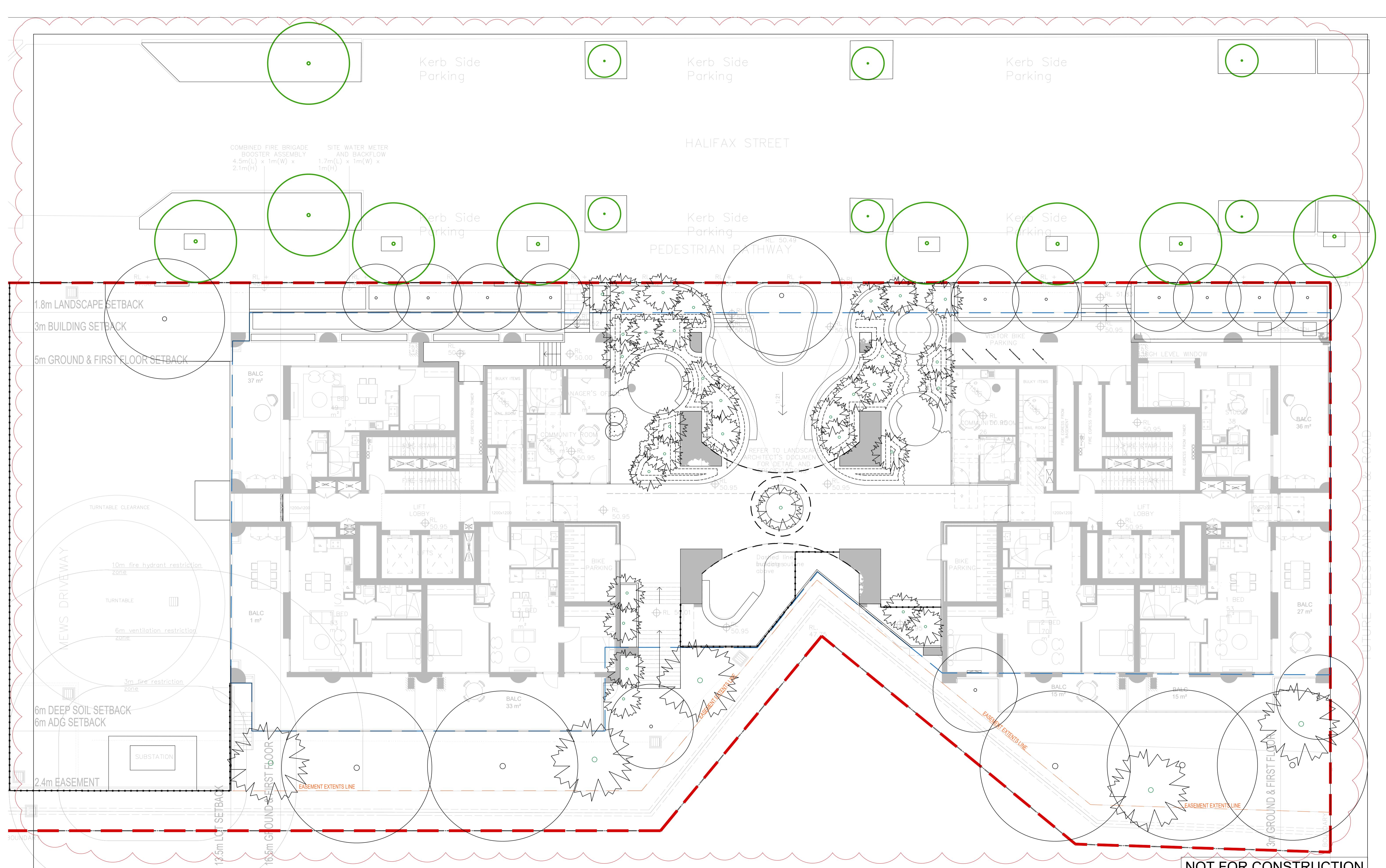
ROOFTOP PROPOSED TREE CANOPY = 178 M2

TOTAL PROPOSED TREE CANOPY = 837 M2

TOTAL SITE COVERAGE = 33.3%



ROOFTOP COMMUNAL OPEN SPACE - PROPOSED TREE CANOPY = 178M2



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Project

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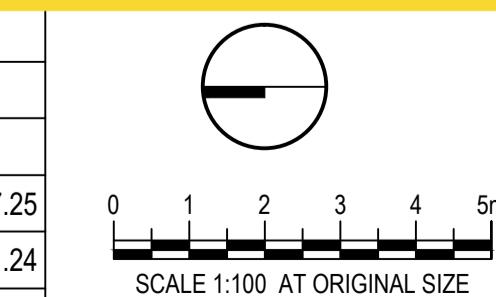
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1:100

Rev:

2

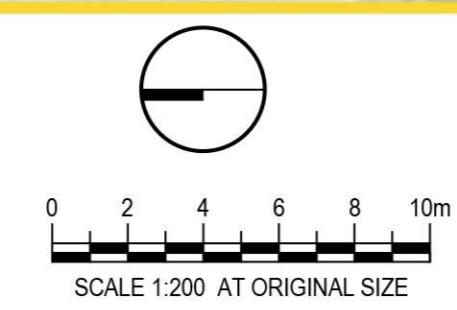
**LINK WENTWORTH
6 HALIFAX ST, MACQUARIE PARK
TREE MANAGEMENT PLAN**

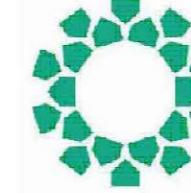




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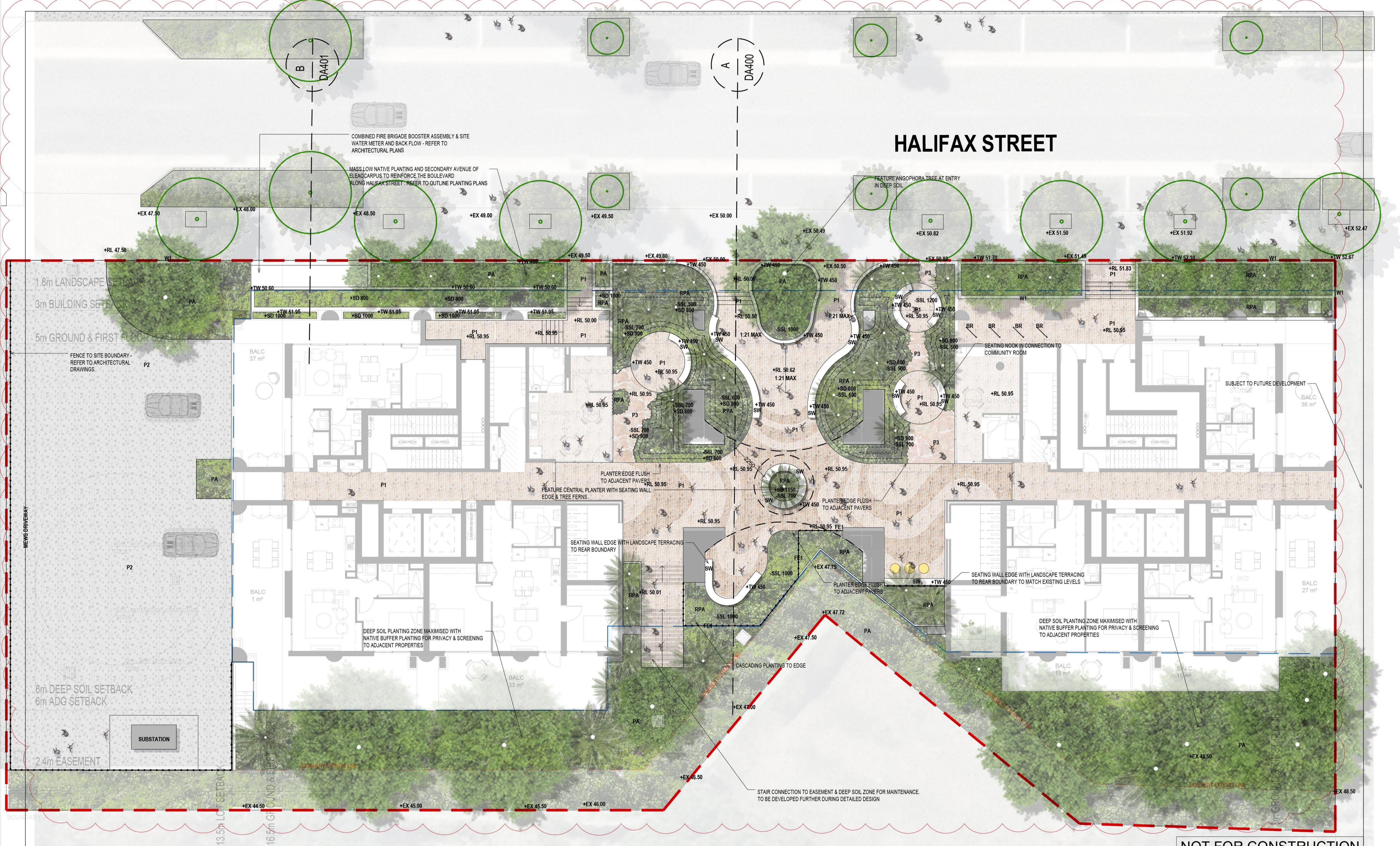
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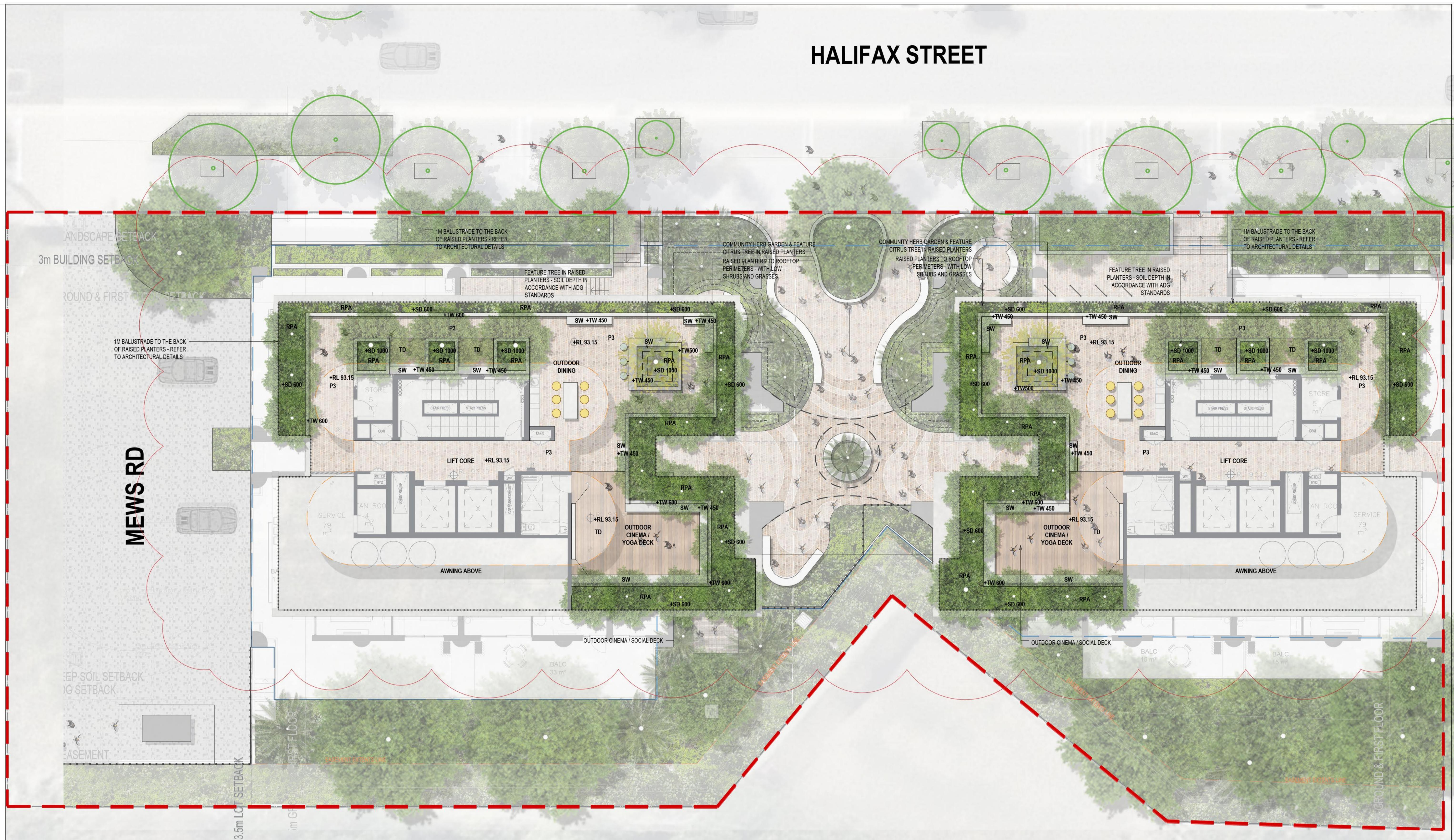
Client Project Title
LINK WENTWORTH
6 HALIFAX ST, MACQUARIE PARK
SITE PLAN

Original Size A1 Drawing No: **LD-DA100**
 Rev: 2

HALIFAX STREET

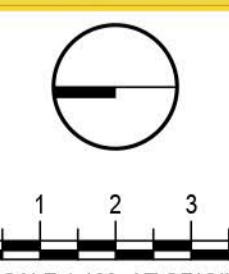


HALIFAX STREET



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LANDSCAPE
Land+Form

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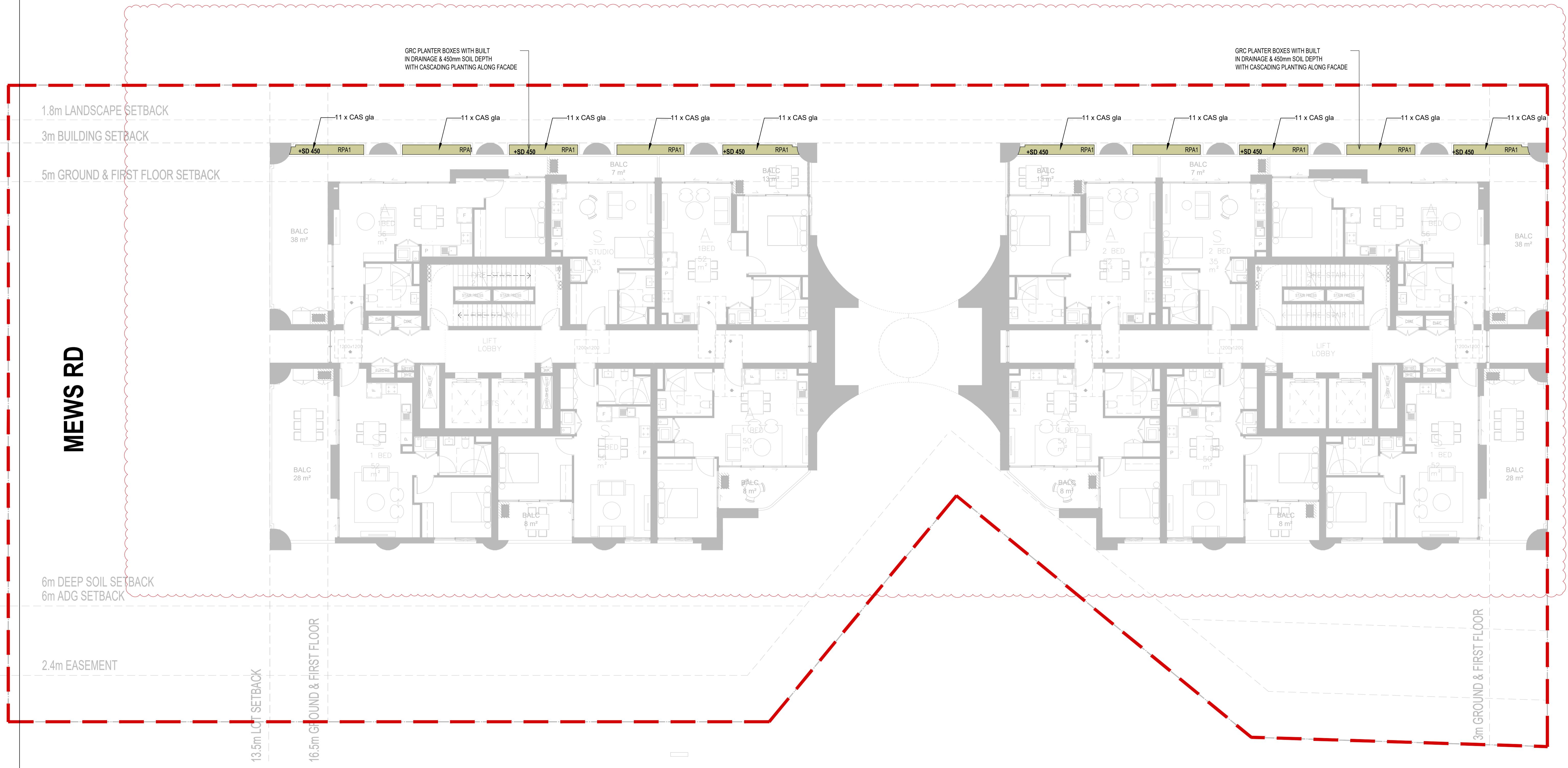
Client Project Title
LINK WENTWORTH
6 HALIFAX ST, MACQUARIE PARK
ROOFTOP LANDSCAPE PLAN
 Original Size A1 Drawing No: **LD-DA110**

Rev: 2



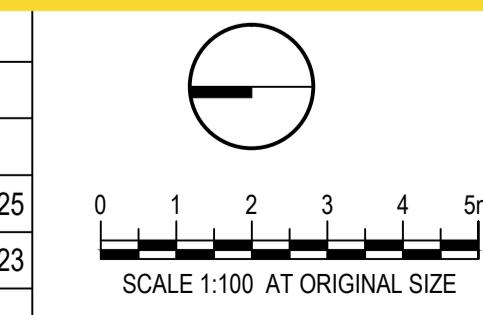
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HALIFAX STREET



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Original Size

A1
Drawing No:

LD-DA210

Rev: 2

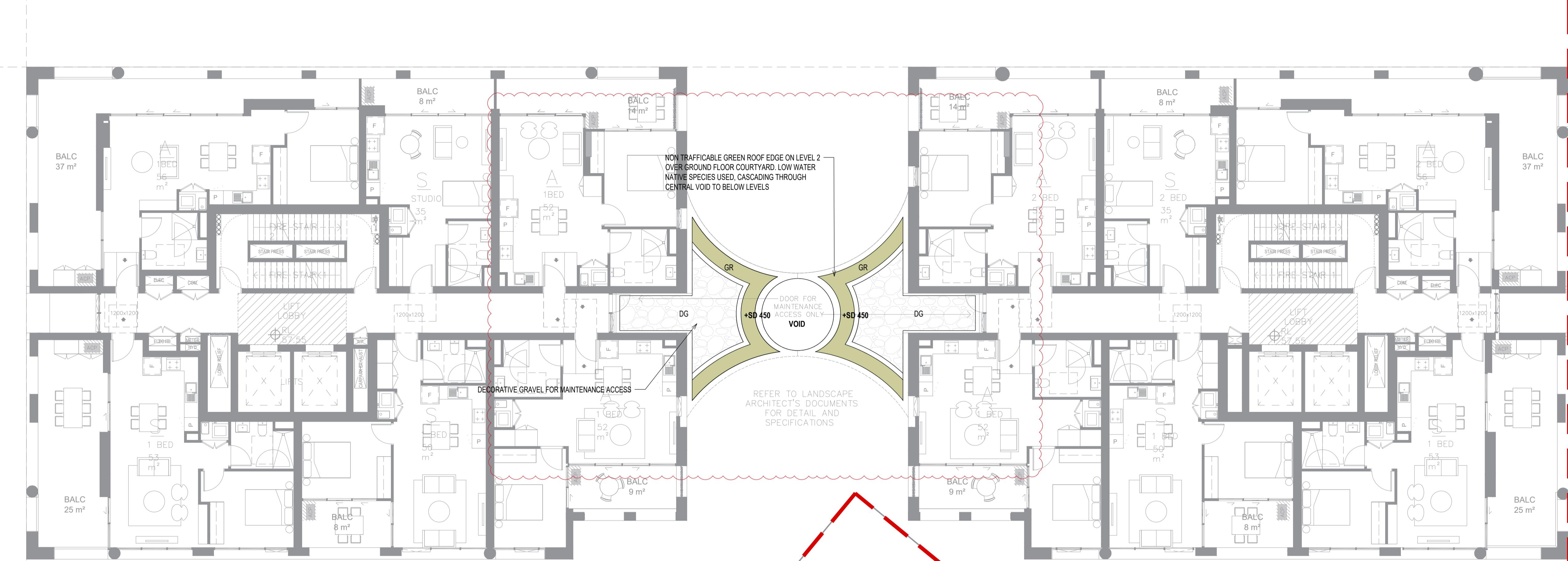
HALIFAX STREET

3m BUILDING SETBACK

MEWS RD

13.5m | CT SETBACK

— — —



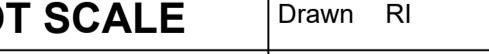
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2	REVISED DA	RL	RI	RI	08.07.25			
1	DEVELOPMENT APPLICATION	RI	CR	CR	13.07.23			
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SCALE 1:100 AT ORIGINAL SIZE

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LANDSCAPE



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LINK WENTWORTH
6 HALIFAX ST, MACQUARIE PARK
LEVEL 2 OUTLINE PLANTING PLAN

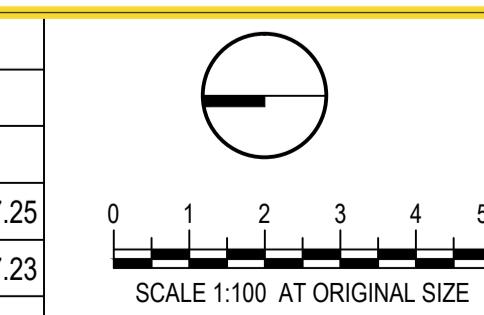
Rev: 2

HALIFAX STREET



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2	S4.55	RL	RI	09.07.25
1	DEVELOPMENT APPLICATION	RL	RI	13.07.23
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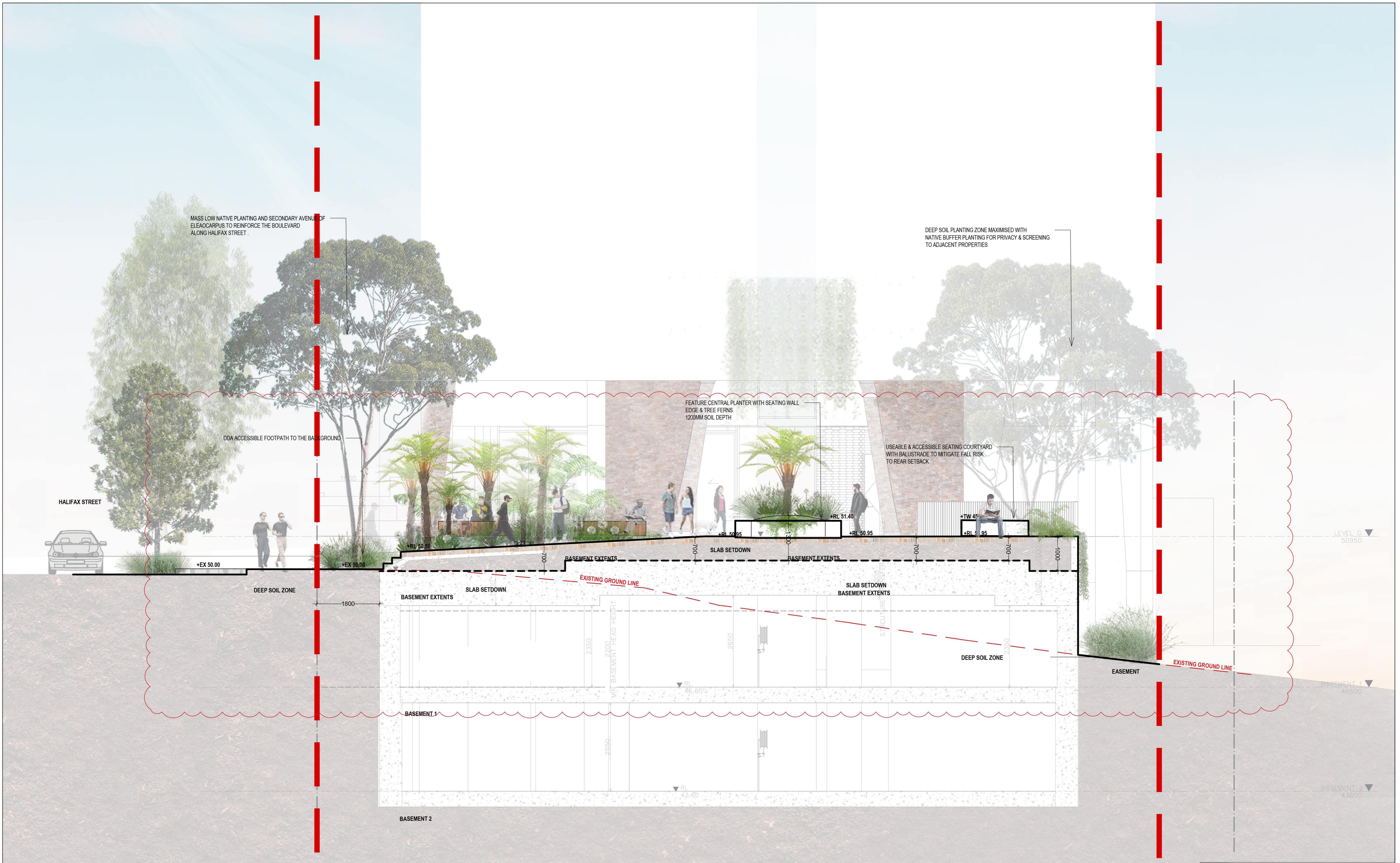
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 Approved (Project Director)
 Date

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Client Project Title
**LINK WENTWORTH
 6 HALIFAX ST, MACQUARIE PARK
 ROOFTOP OUTLINE PLANTING PLAN**
 Original Size
A1
 Drawing No: **LD-DA230**
 Rev: **2**



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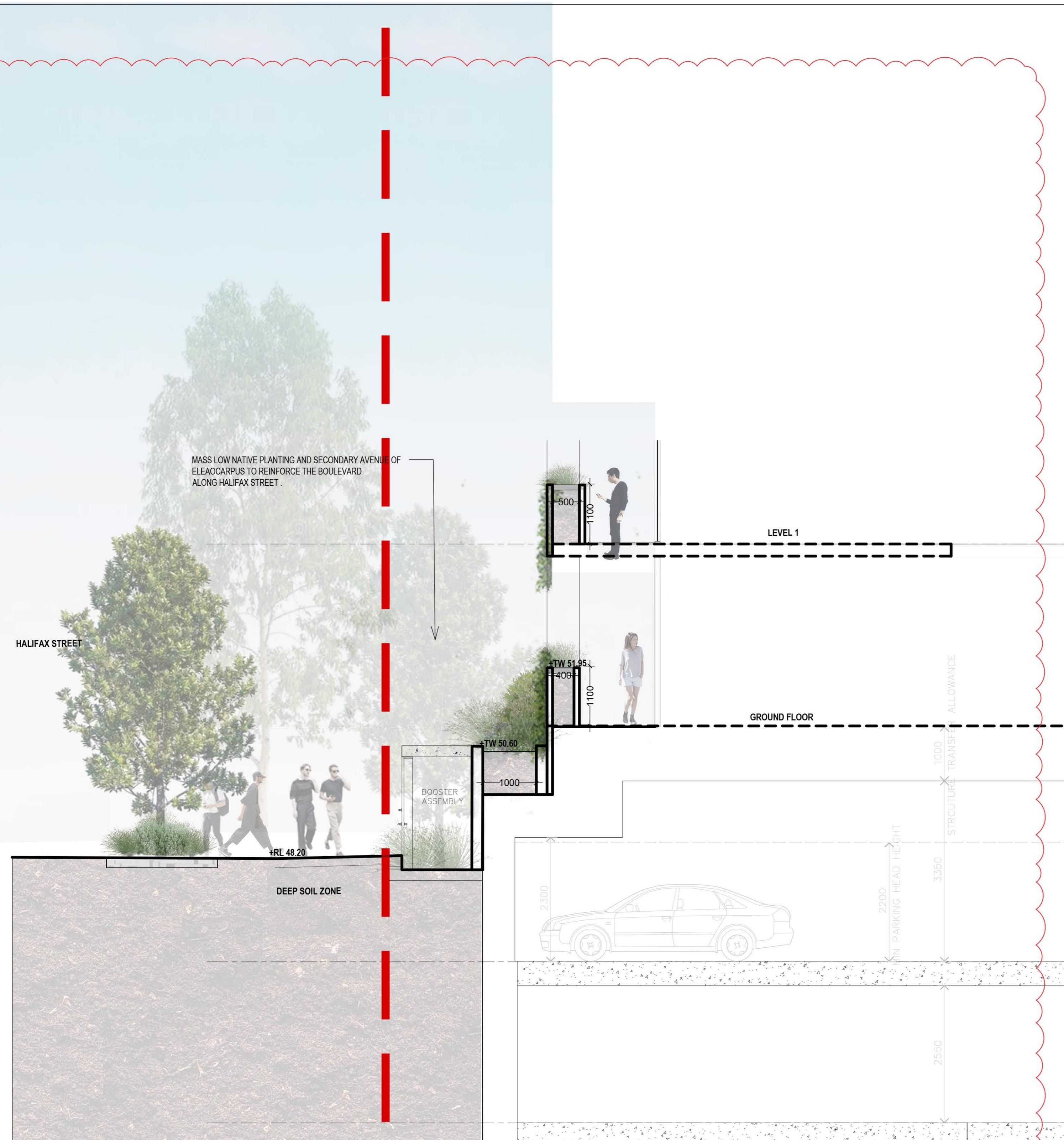
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LINK WENTWORTH 6 HALIFAX ST, MACQUARIE PARK SECTION AA

Size Drawing No: **LD-DA400**

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K WENTWORTH ALIFAX ST, MACQUARIE PARK SECTION BB

awing No: **LD-DA401**

Rev: 2

LANDSCAPE OUTLINE SPECIFICATION NOTES

GENERAL:

Note the following is an outline specification for DA purposes only.

All works are to be performed by suitably qualified and experienced trades persons in landscape works. All works shall be supervised by a qualified superintendent.

SERVICES IDENTIFICATION

The contractor shall verify the position of all services prior to the commencement of works and take all necessary precautions to protect services during implementation works.

SITE ESTABLISHMENT

The contractor shall establish site access and compound in position agreed with the Superintendent and or subject to Council approval. The Contractor shall be totally responsible for protecting the site works during construction and establishment including vegetation, pedestrian and vehicular management. Implement erosion control and site management practices to secure the site and to comply with all statutory requirements.

EARTHWORKS & DRAINAGE

Bulk earthworks are by the civil contractor. The landscape contractor shall allow for minor earth trimming and profiling to prepare landscape areas to accept the nominated treatment. Protect exposed earthworks with temporary erosion measures and coordinate the on-site disposal of excess spoil with the Superintendent.

SUBSOIL AGRICULTURAL DRAINS:

All tree positions shall be free draining with positive drainage to SW outlets or natural drainage systems. Install 100mm diameter agg. drains including 200mm wide column of 10-20mm crushed drainage gravel and geo-textile fabric - Bidum A24. Seek direction from the site superintendent.

PIT LIDS:

The Contractor is to protect all pit lids during earthworks preparation. Retain Telstra concrete oval covers & pit checker plate steel pit covers, and concrete service pits. New pit lids are to be suitable for paver infill.

HARD LANDSCAPE WORKS

PAVEMENTS:

Modular Pavement Systems - Pedestrian: Stone paving product Pavements systems shall conform to the approved Public Domain Framework and or Council's streetscape guidelines to the extent defined on the landscape plans. Supply and install pavements to the pattern nominated over concrete base including; base preparation, mortar bedding, placement, mechanical cutting, expansion | control joints, grout jointing and finishing to achieve levels and positive drainage.

ROADWORKS: Refer to Engineers drawings for grading, materials and set-out.

FURNITURE & FIXINGS

Supply and install furniture and fixing in the positions nominated on the plans or as agreed on site with the superintendent. All items are to be installed on concrete base slab or in-ground footings strictly in accordance with the manufacturer's specification. Where necessary, allow for cutting of pavements and or core drilling installation method.

The pavements shall comply with Council and Australian Standards

LIGHTING

Refer to the electrical engineer's plans for lighting circuits and installation. The general layout are nominated on the landscape plans.

SOFT LANDSCAPE WORKS

SOIL MIX:

Imported Soil Mix:

All planter areas shall have a minimum soil depth of 300mm and 100mm to turf | grass areas with landscape quality soil that conforms to AS 4419 Soils for Landscaping and Gardens.

Ameliorated site topsoil mix:

The Contractor is to use stockpiled site topsoil adding soil additives and chemicals; lime gypsum and fertiliser nutrients to achieve AS4419.

SAMPLE & TESTING:

Provide 1kg soil mix test sample and data to of imported or modify site soil , clearly

identified and referenced to the test data, prepared by an independent soil laboratory. Submit to the Superintendent for approval prior to supply and placement.

FERTILISER: Apply slow release Organic fertiliser at the time of planting with pellets to advanced tree positions strictly in accordance with the manufacturers specification and with regard to season, soil mix, watering regimes and sub grade conditions.

PLANT MATERIALS:

Refer to the plant schedule. The contractor shall ensure that all plant materials are secured immediately upon award of contract. Failure to do so will not give rise to substitutions or extensions of time. All stock shall be grown in open areas which are exposed to the sun and wind to promote vigorous plant growth and to harden plants off. All plant material shall be pest and disease free. All plant material shall not be root bound or damaged. Plant densities shall reflect accepted industry standards and Councils guidelines for Landscape Works and be sourced from an accredited nursery. The Contractor will be responsible for purchasing and coordination of delivery to satisfy the construction program. It is the Contractor's responsibility to check trees at the supply source and to accept delivery of the trees at site, ensuring that the trees are supplied in accordance with the specification and are in good health. The Contractor shall allow for unloading and placement of all advanced tree materials.

All bag stock shall conform to the specification and must be secured from an Accredited Nursery. The current Natspec Guide "Purchasing Landscape Trees" is a guide only for quality tree production. All trees must be able to be planted without the use of tree stakes. Any trees requiring staking to be held vertical shall be rejected.

ADVANCED TREES:

Plant stock shall have a well developed straight stem with tri-branching structure and healthy canopy typical to the species and to the minimum sizes scheduled.

Excavate a hole a minimum 2X wider than the root ball and deep enough to accept a minimum 200mm of topsoil below. Break up the base of the hole to a further depth of 200mm, and loosen compacted sides of the hole as necessary to prevent confinement of root growth to the hole. Loosen sides of root ball to promote growth. Backfill with nominated soil mix, lightly tamp and water to eliminate air pockets. Ensure positive drainage to all tree positions.

Supply and install root barrier as nominated and staking as detailed on plans.

IRRIGATION SYSTEM: Supply and install an automatically controlled system to landscape areas identified on the plans to achieve 25mm/week precipitation rate. This system shall have a rain switch and have backflow prevention devices fitted in accordance with Councils regulations.

MAINTENANCE PERIOD:

General

Planting maintenance period: the planting maintenance period will be 52 weeks and will commence from the date of practical completion. Of each phase of planting works (hereby specified to be a separable part of the works). It is anticipated that planting works will be undertaken in one phase

Planting maintenance program: 2 weeks prior to practical completion, furnish a proposed planting establishment program, and amend it as required. Such proposal

should contain details of the types and frequency of maintenance activities involved

with the establishment of plants and grassed areas. Comply with the approved

program.

Planting maintenance log book: keep a log book recording when and what

maintenance work has been done and what materials, including approved toxic

materials, have been used. Log book must be signed off by the client's representative

after each maintenance visit. Maintain log book in location nominated by

superintendent. All entries are to be initialled by person nominated by superintendent.

Log book to contain a copy of the approved planting establishment program.

Product warranty: submit the supplier's written statement certifying that plants are true

to the required species and type, and are free from diseases, pests and weeds.

Insurance: the contractor is to ensure suitable insurance cover and / or bank

guarantee is in place for the theft and / or damage of all works executed under this

contract for the plant maintenance period.

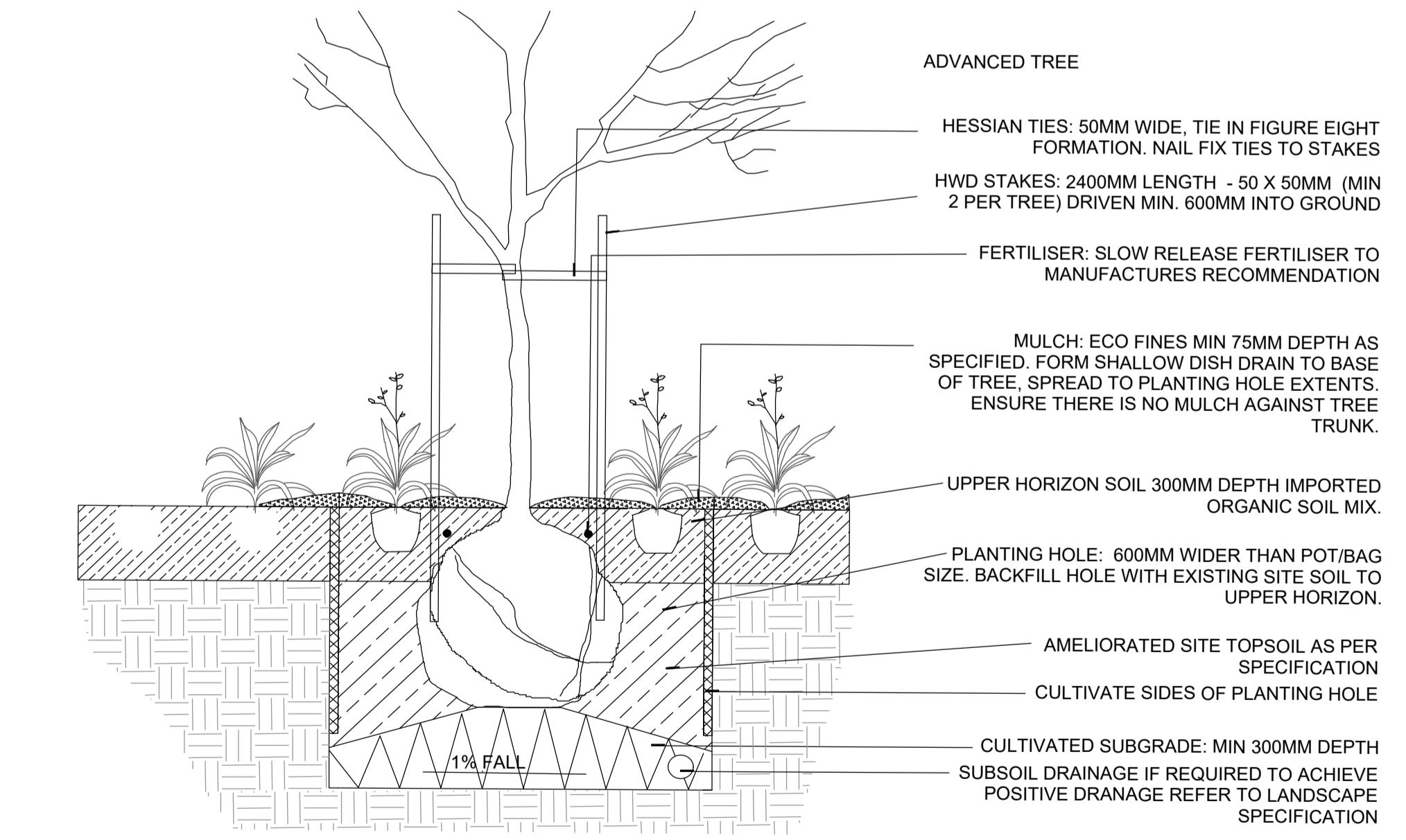
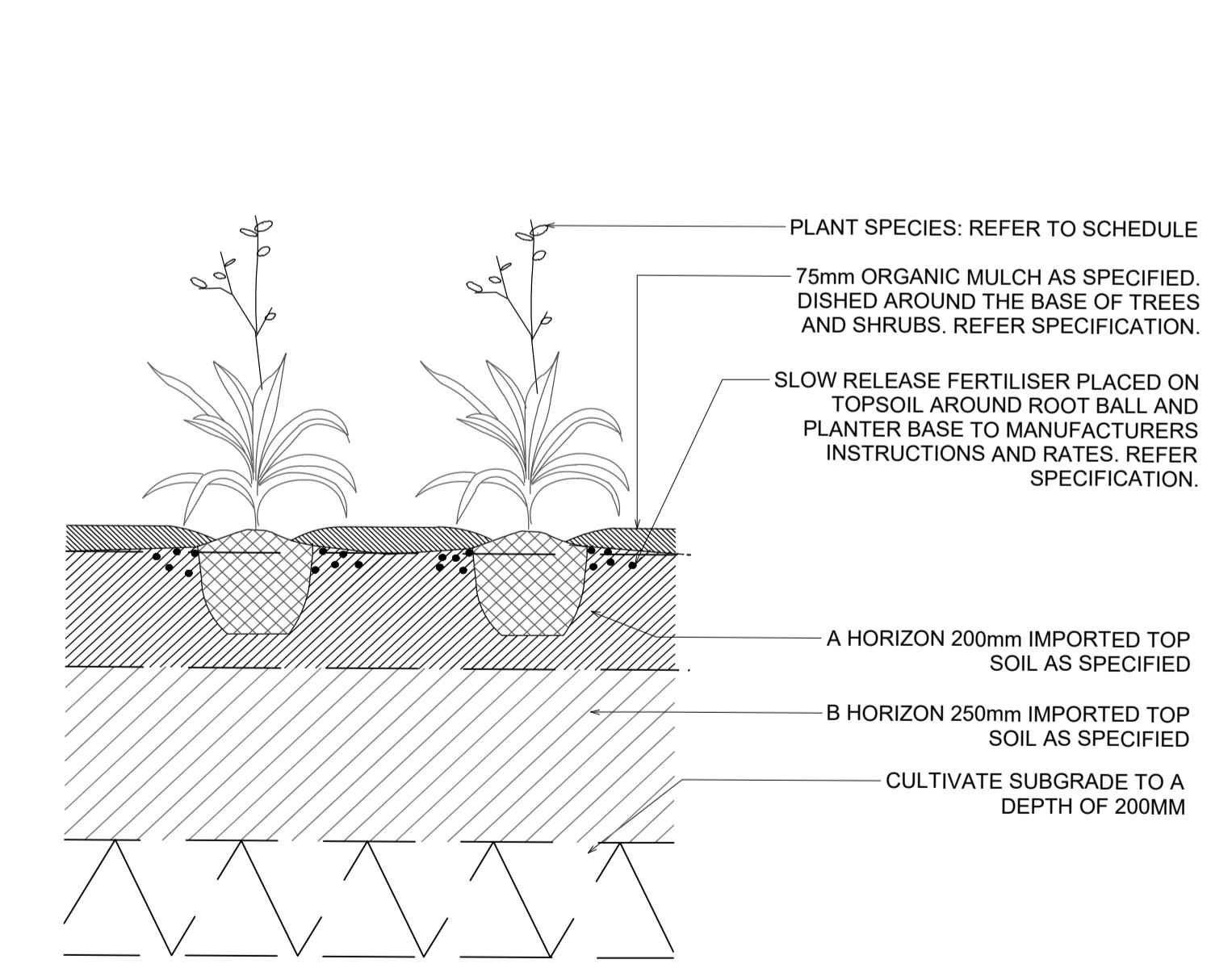
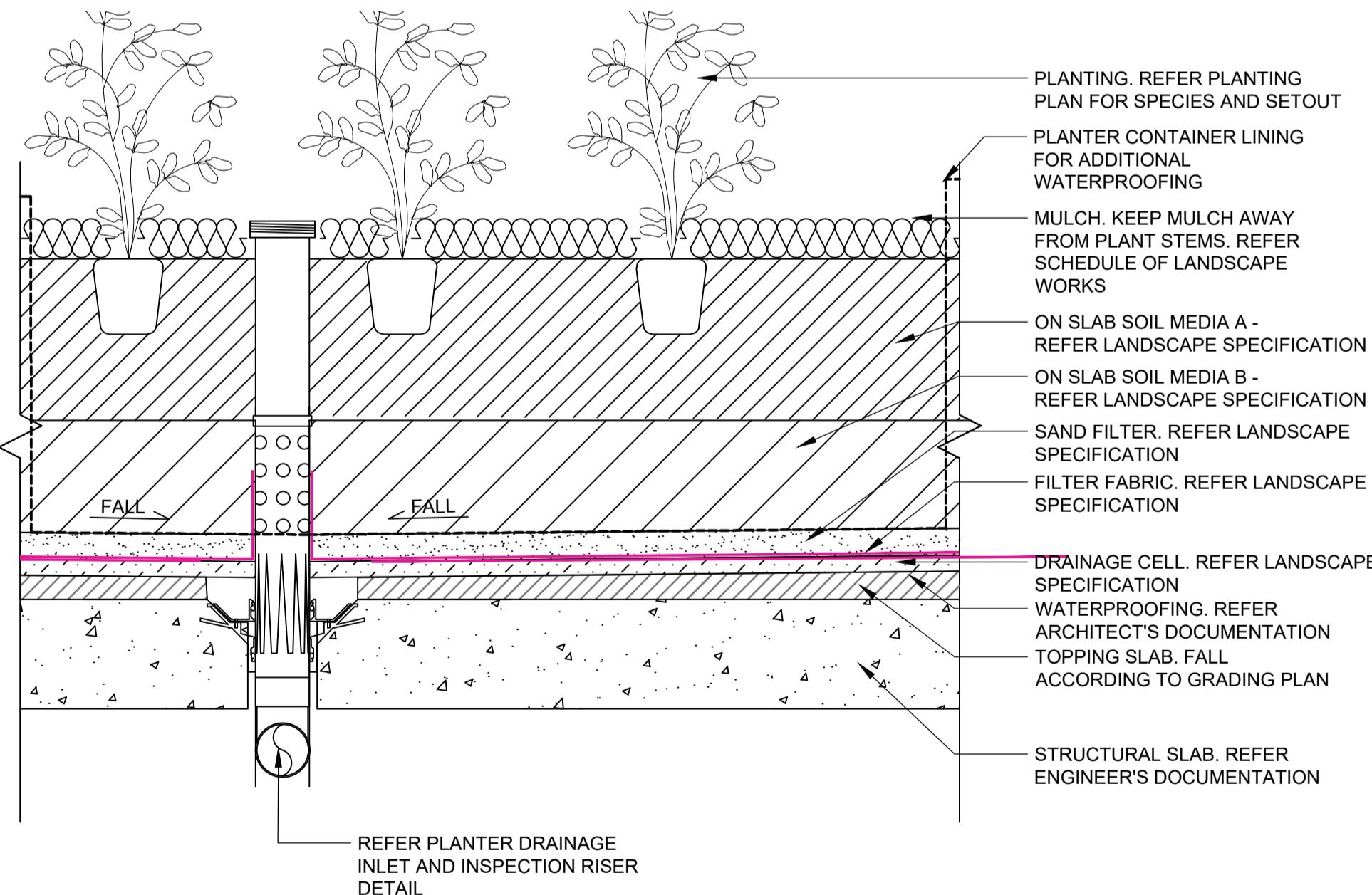
All Drawings To Be Read In Conjunction With Structural, Mechanical, Hydraulic and Electrical Engineers' Detail Drawings And Specifications.

*** ALL WORKS WITHIN THE PUBLIC DOMAIN IN ACCORDANCE WITH RYDE COUNCIL SPECIFICATION AND DETAILS**

All Levels Indicated Taken To Australian Height Datum (AHD)

Refer to Detail Drawings For Typical Details.

Generally All Materials & Construction to Comply To AS 3700



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2 S4.55	RL	RI	RI 08.07.25
1 DEVELOPMENT APPLICATION	RI	CR	CR 04.12.23
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LINK WENTWORTH
6 HALIFAX ST, MACQUARIE PARK
TYPICAL DETAILS & OUTLINE MAINTENANCE SPECIFICATION
Rev: 2