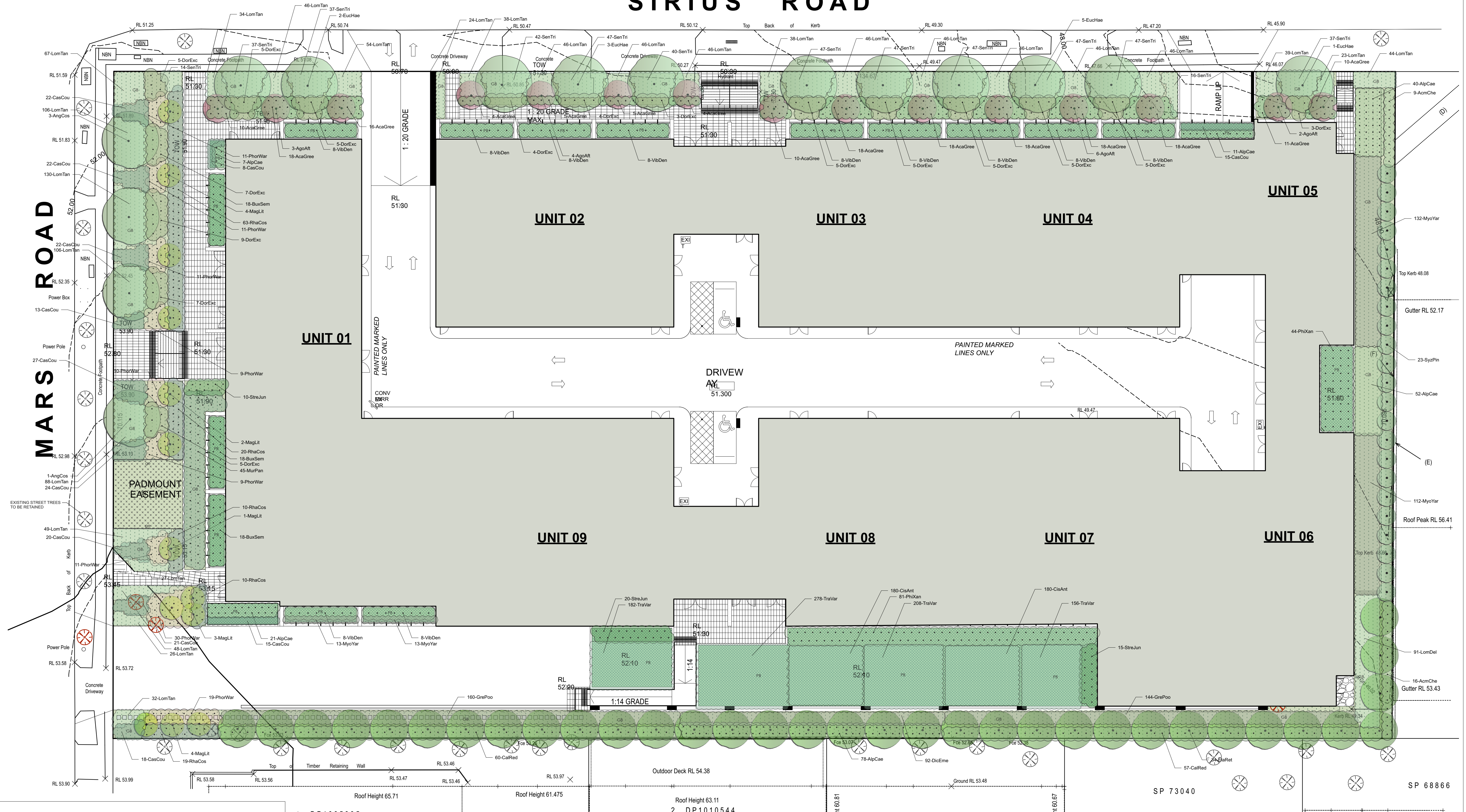


SIRIUS ROAD



LEGEND	
	Proposed tree plantings
	Proposed shrub plantings
	Proposed groundcover plantings
	Non slip unit path pavement
	Proposed planter bed
	Proposed garden bed
	Porous mulched landscaped area
	Timber garden edge

- GENERAL NOTES:
- Do not scale of drawings. Follow written dimensions. If in doubt obtain written advice from the Superintendent.
 - Verify all dimensions on site.
 - Refer to legend for all symbol and code keys.
 - Read in conjunction with the specifications
 - Read in conjunction with all associated drawings

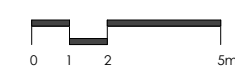
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A	FOR DA	CL	12.07.21
ISSUE	AMENDMENT	DRAWN	DATE

DESIGNED:	PREPARED FOR:
GD	ETON HUANG
DRAWN:	
CL	

PREPARED BY:
Greenland Design Pty Ltd ABN 73 139 152 855 Registered Landscape Architect: Bao Ly PO Box 3228 Wertheim Park NSW 2164 T: 0403 164 198 E: gd@greenlanddesign.com.au

PROJECT:
PROPOSED BUSINESS CENTRE
PROJECT ADDRESS:
NO. 67 MARS ROAD LANE COVE

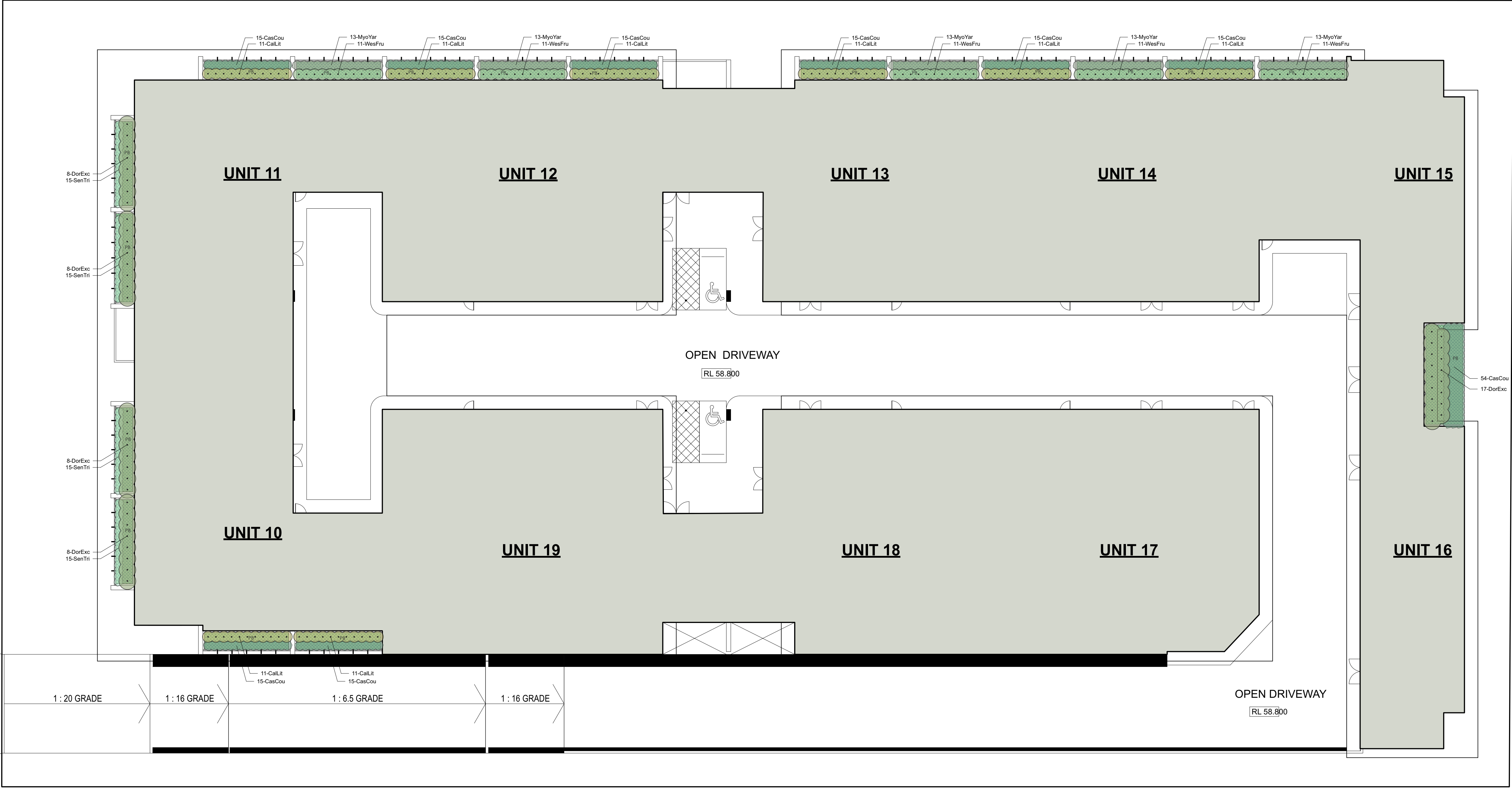
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Landscape Plan -Level 1






DATE:	MARCH 2022
SCALE:	1:200
FULL SIZE:	A1
DRAWING NO:	2399.GD.01

SIRIUS ROAD

MARS ROAD



LEGEND

-  Proposed shrub plantings
-  Proposed groundcover plantings
-  Proposed planter bed

- GENERAL NOTES:
- Do not scale of drawings. Follow written dimensions. If in doubt obtain written advice from the Superintendent.
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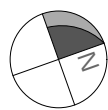
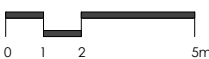
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				ISSUE	

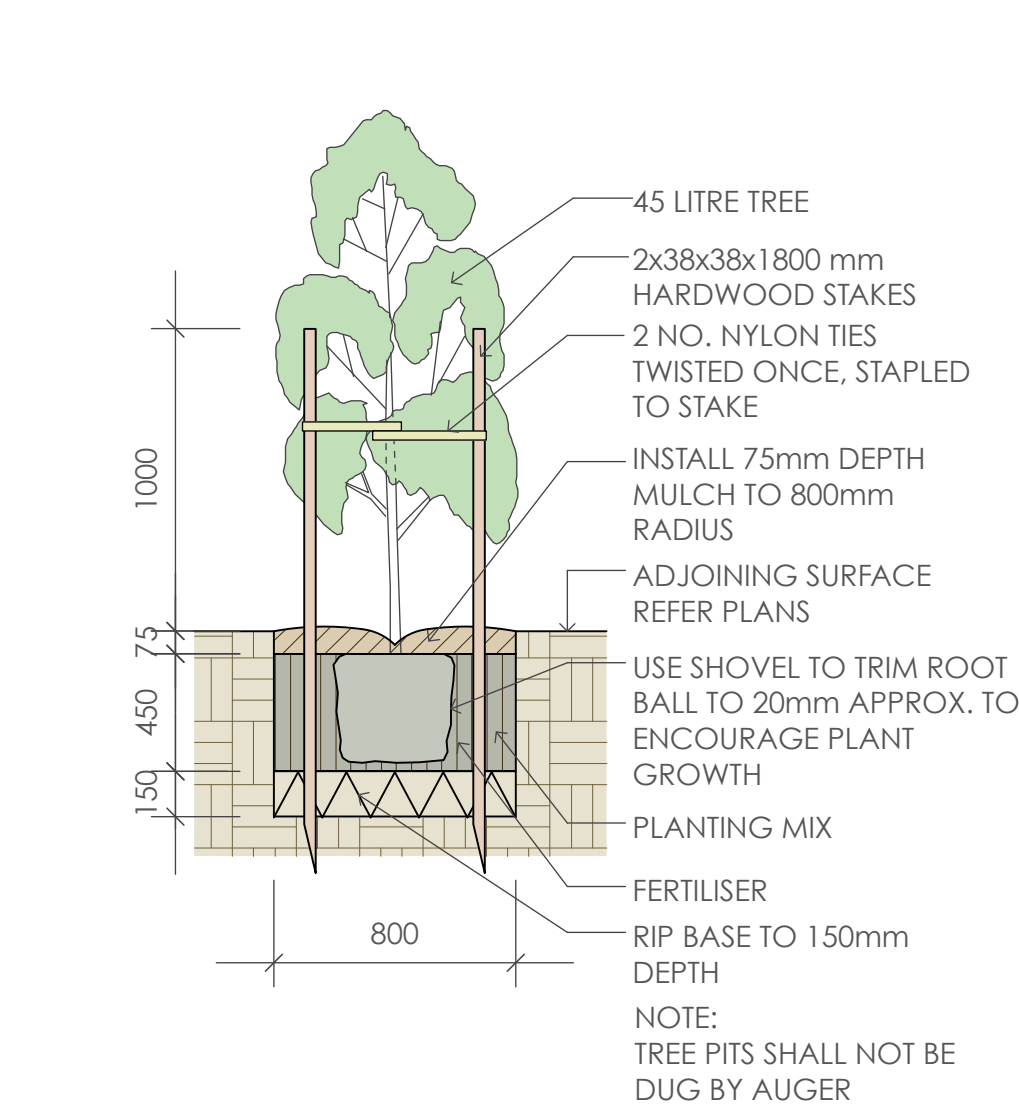
PREPARED BY:	
	
Greenland Design Pty Ltd ABN 73 139 152 855 Registered Landscape Architect: Bao Ly PO Box 3228 Wetherill Park NSW 2164 T: 0403 164 198 E: gd@greenlanddesign.com.au	

PROJECT:	
PROPOSED BUSINESS CENTRE	
PROJECT ADDRESS:	
NO. 67 MARS ROAD LANE COVE	

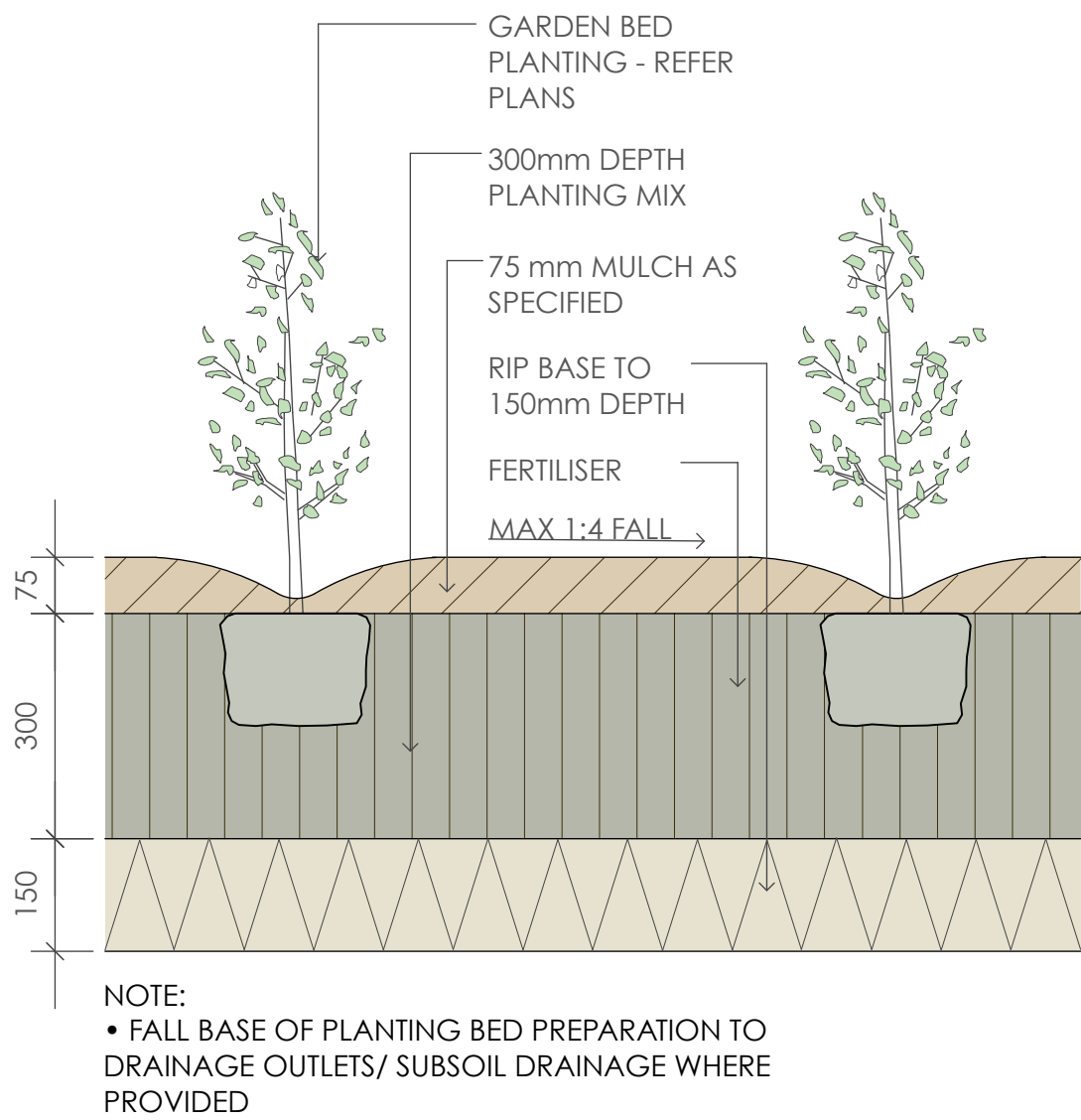
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DATE:	
MARCH 2022	
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FULL SIZE: A1	
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2399.GD.02	

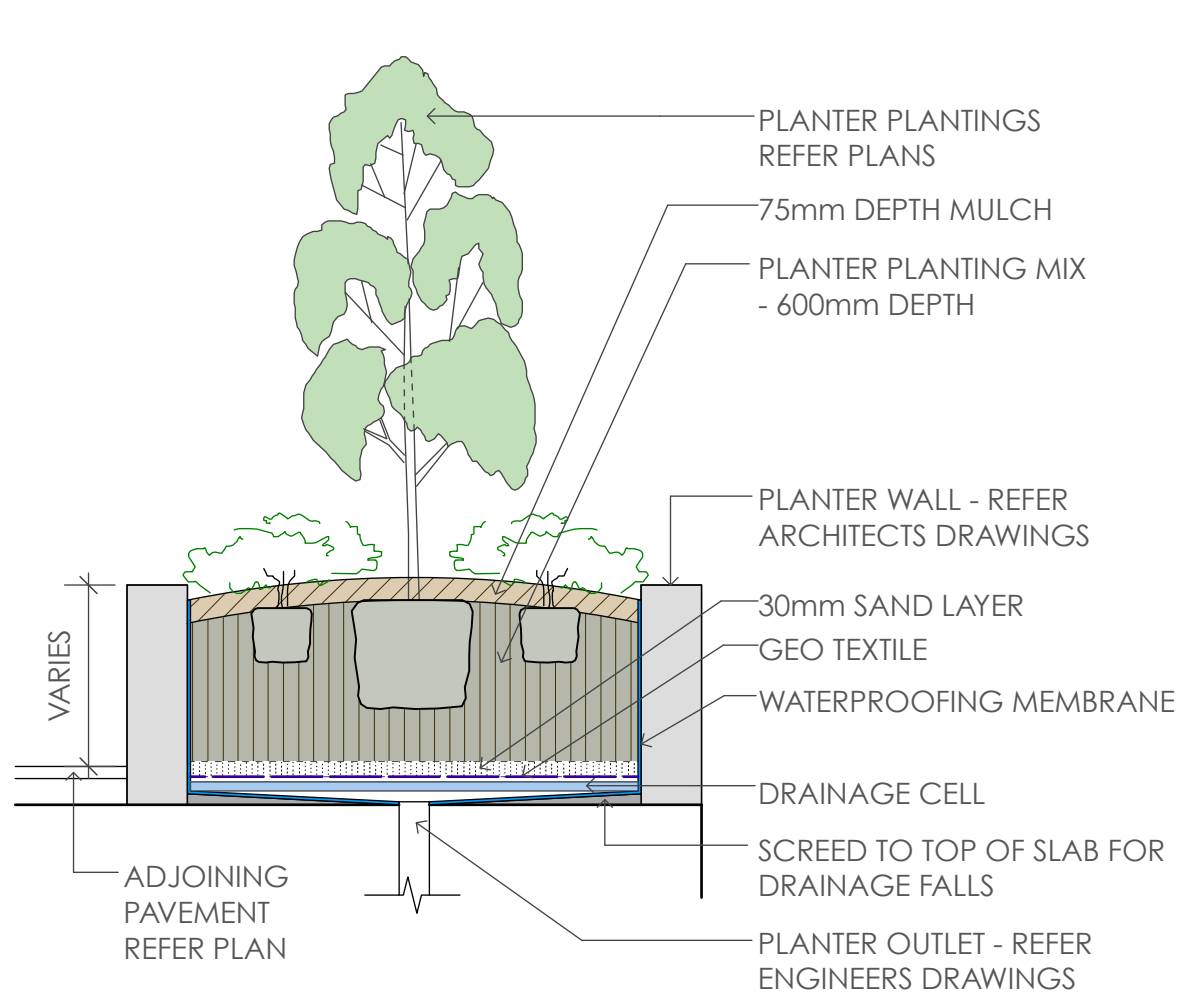




1 45 Litre Tree Planting
scale 1:25



2 Planting Bed Detail
scale 1:10



3 Planter Bed On Slab
scale 1:25

GREENLAND DESIGN													
TWELVE MONTHS MAINTENANCE SCHEDULE													
Plant Care													
Monitoring													
Pruning as required													
Deadhead /tip pruning													
Slow release fertilise													
Rapid soluble fertilise as required													
Cut back perenials and grasses													
Watering as required													
Garden Bed													
Edging													
Remove weeds and herbicide spraying as required													
Top up mulch as required													
Dead foliage removal													
Pest Management													
Monitoring and herbicide spraying as required													
Winter clean up													
Remove dead foliage and pruning as required													

Plant Schedule							
ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
AgoAft	15	Purple Peppermint Tree	Agonis flexuosa 'After Dark'	45Litre	3 - 6m	1.5 - 3m	N
AngCos	4	Smooth-barked Apple	Angophora costata	45Litre	15 - 20m	8 - 12m	N
ElaRet	34	Blueberry Ash	Elaeocarpus reticulatus	45Litre	8 - 10m	3 - 4m	N
EucHae	11	Scribbly Gum	Eucalyptus haemastoma	45Litre	10 - 15m	6 - 10m	N
MagLit	14	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	45Litre	3 - 5m	2.0 - 3.0m	
SyzPin	23	Pinnacle Lilly Pilly	Syzygium 'Pinnacle'	45Litre	6 - 10m	1.4 - 1.6m	N
Shrubs							
AcaGree	183	Green Mist	Acacia cognata 'Green Mist'	200mm	1.0 - 1.5m	0.8 - 1.0m	N
AcmChe	25	Forest Flame	Acmena 'Cherry Surprise'	200mm	3.0 - 5.0m	1.2 - 1.5m	N
AlpCae	209	Native Ginger	Alpinia caerulea	200mm	0.9 - 1.5m	0.9 - 1.2m	
BuxSem	54	English Box	Buxus sempervirens	200mm	1.5 - 2.0m	1.0 - 1.5m	
CalLit	88	Little John	Callistemon 'Little John'	200mm	0.9 - 1.5m	0.9 - 1.2m	N
CalRed	117	Red Alert Bottle Brush	Callistemon 'Red Alert'	200mm	1.0 - 1.5m	2.0 - 3.0m	N
DorExc	131	Gymea Lily	Doryanthes excelsa	200mm	1.5 - 2m	1.2 - 2.0m	N
MurPan	45	Orange Jessamine	Murraya paniculata	200mm	2.0 - 3.0m	2.0 - 3.0m	
PhiXan	125	Philodendron	Philodendron xanadu	200mm	0.8 - 1.0m	0.8 - 1.0m	
PhorWar	121	Bronze Warrior Flax	Phormium tenax 'Bronze Warrior'	200mm	1.4-1.6m	1.4 - 1.6m	
RhaCos	122	Cosmic White Rhipirolepis	Rhipirolepis indica 'Cosmic White'	200mm	1.5 - 2.0m	1.2 - 1.5m	
StreJun	45	Narrow Leaved Birds Of Paradis	Strelitzia juncea	200mm	0.9 - 1.5m	0.9 - 1.2m	
VibDen	88	Dense Fence Viburnum	Viburnum odoratissmum 'Dense Fence' 2	200mm	2 - 3m	1.5 - 2.0m	
WesFru	55	Jervis Gem	Westringia fruticosa 'Jervis Gem'	200mm	0.8 - 1.2m	0.8 - 1.2m	N
Ground Covers							
CasCou	401	Cousin It	Casuarina 'Cousin It'	150mm	0.10 - 0.15m	0.8 - 1.0m	
MyoVar	335	Carpet Spreading Myoporum	Myoporum parvifolium 'Yareena'	150mm	0.05 - 0.1m	0.8 - 1.0m	N
TraVar	824	Variegated Star Jasmine	Trachelospermum 'Variegatum'	150mm	0.3 - 0.4m	3.0 - 4.0m	
CisAnt	360	Kangaroo Vine	Cissus antarctica	150mm	3 - 5m	2.0 - 3.5m	N
GrePoo	304	Royal Mantle Grevillea	Grevillea 'Paorinda Royal Mantle'	150mm	0 - 0.2m	2.0 - 3.0m	N
DicEme	92	Emerald Falls Dichondra	Dichondra 'Emerald Falls'	150mm	0.0 - 0.3m	0.9 - 1.2m	N
LomDel	91	Katrinus Deluxe Mat-Rush	Lomandra longifolia 'Katrinus Deluxe'	150mm	0.75 - 0.9m	0.9 - 1.2m	N
LomTan	1387	Spiny-headed mat rush	Lomandra longifolia 'Tanika'	150mm	0.45 - 0.6m	0.6 - 0.9m	N
SenTri	565	Trident Blue	Senecio Trident Blue	150mm	0.2 - 0.3m	0.5 - 1.0m	N



SPECIFICATION NOTES

PLANTING MATERIALS

Planting Mix:

Planting mix for tree pit backfill shall be "Organic Garden Mix" consisting of

- 50% Black Soil
- 20% Coarse Sand
- 30% Organic Material

as available from Australian Native Landscapes, Phone: [02] 9450 1444, or approved equivalent. Samples shall be provided to the Superintendent prior to ordering or delivery to site. Any material delivered to site, that is rejected by the Superintendent, shall be removed by the contractor at his own expense. Minimum depths of mix to all planting bed areas is as specified on details.

Planter Mix:

Planter mix shall be Peat and Planter Mix as supplied by Australian Native Landscape Pty Ltd (ph [02] 9450 1444 or approved equivalent).

Light Weight Planter Mix:

Planter mix shall be the Hills Lightweight planter mix as supplied by The Hills Bark Blower Pty Ltd (ph [02] 9654 2288 or approved equivalent. Install as per manufacturers recommendations.

Planter Drainage Cell:

Planter drainage cell shall be VersiCell as supplied by Elmich Australia Pty Ltd (ph [02] 9648 2073 or approved equivalent).

Mulch:

Mulch to garden bed:

Mulch shall mean hardwood mulch (25mm grade), free from material derived from Privet, Willow, Poplar, Coral trees, or other noxious weeds. Any mulch exceeding the 25mm grade shall be rejected / removed from the site. Graded hardwood mulch to be supplied by Australian Native Landscapes Pty Ltd Phone [02] 9450 1444, or approved equivalent.

Mulch to planter beds:

Mulch to planter beds shall be Pine bark mini nuggets mulch (25mm grade), free from fines and as available from Australian Native Landscapes Pty Ltd Phone [02] 9450 1444, or approved equivalent.

Spread mulch so that after settling, it is:

- smooth and evenly graded between design surface levels;
- flush with adjacent finished levels;
- of the required depths (75mm); and
- sloped towards the base of plant stems in plantation beds, but not in contact with the stem (not closer than 50mm in the case of gravel mulches).

Place after the preparation of the planting bed, planting and all other work.

Plant Material:

All plant material must be true to the species. No substitutes will be allowed. All plants shall be free of fungus and insect damage. All plants shall be healthy, well shaped, not soft or force grown and not root bound. Plants are available from **Andreasens Green** wholesale nursery, contact Darren (02) 8777 4713, email darren@andreasensgreen.com.au or approved equivalent.

PREPARATION AND HARDWORKS

Excavating for Spot Planting

To planting areas, excavate a hole for each plant large enough to provide not less than twice the depth and twice the diameter than the root ball of species to be planted.

Staking

Use durable hardwood, straight, free from knots or twists, pointed at one end. Drive stakes into the ground a minimum one third of their length, avoiding damage to the root system.

- 45 Litre trees in 2 x 38x38x1800mm Hardwood Stake with double Nylon tie TIES: Provide a 50mm wide Nylon webbing tie per stake, fixed securely to the stakes, one tie at half the height of the main stem and the other as necessary to stabilise the plant.

MAINTENANCE / PLANT ESTABLISHMENT

Maintenance shall apply to all hard and soft landscape materials installed prior to the "handover" and acceptance by Principles Representative and the Site Superintendent. The maintenance period shall convenience at the granting of practical completion and shall extend for 12 months.

Maintenance shall consist of the following works:

- Follow a daily watering programme to be approved by Superintendent. Water all plants individually, twice per week or when necessary to ensure constant plant growth. Water all turf and native grassed areas, twice per week.
- Apply appropriate weed control sprays and hand weed as required to maintain planting areas, native grassing bed areas, turfed areas, paved areas, and tree pits in turf free of weed or rogue grass growth.
- Regularly tidy and top up mulch and trim edges to prevent spill over onto paved / grassed areas.
- Spray to control pests and diseases.
- Replace plants, which fail with plants of a similar size and quality as originally specified to approval of Superintendent. Costs of replacement shall be the responsibility of the Contractor. Replacement planting will be undertaken within 2 weeks of identification of dead material or instruction be the Superintendent.
- Report any incidence of plants stolen or destroyed by vandalism.
- Adjust stakes and ties to plants as necessary. Ensure that strangulation of plants does not occur.
- Prune and shape plants as directed or where necessary.
- Make good any defects or faults arising out of defective workmanship or materials.
- Fertilise lawn areas to maintain healthy growth.
- Make good any erosion or soil subsidence, which may occur including soft areas in pathways.
- Mow lawn to maintain neat healthy growth.
- A final inspection shall be made by the Superintendent before handover. Any items requiring rectification shall be repaired before the works are finally approved, and retention moneys released.

NOTE:

- All finished levels are to be verified by Contractor on site.
- All landscape works be in strict accordance with Council's landscape code and guidelines
- This plan to be used in conjunction with all other submitted architectural, hydraulics and engineering drawing where applicable.

IRRIGATION SYSTEM AND REQUIREMENTS

DESCRIPTION OF WORKS

The scope of works in this section comprises the design and specification (for comment by Superintendent), supply, and installation of fully automated commercial drip irrigation system to all landscaped areas and to Councils requirements.

The general location and extent of the areas to be irrigated is as shown on plans and includes:

- Planter bed areas to be irrigated by "Techline" dripline at 750mm intervals, capable of delivering 20mm / week.
- Garden bed areas to be irrigated by "Techline" dripline at 750mm intervals, capable of delivering 20mm / week.

The Contractor shall provide shop drawings and materials and equipment specifications for comment by the Superintendent. Notwithstanding comments on the irrigation design being provided by the Superintendent responsibility for the technical design, operation and adequacy of performance of the irrigation system will remain with the Contractor.

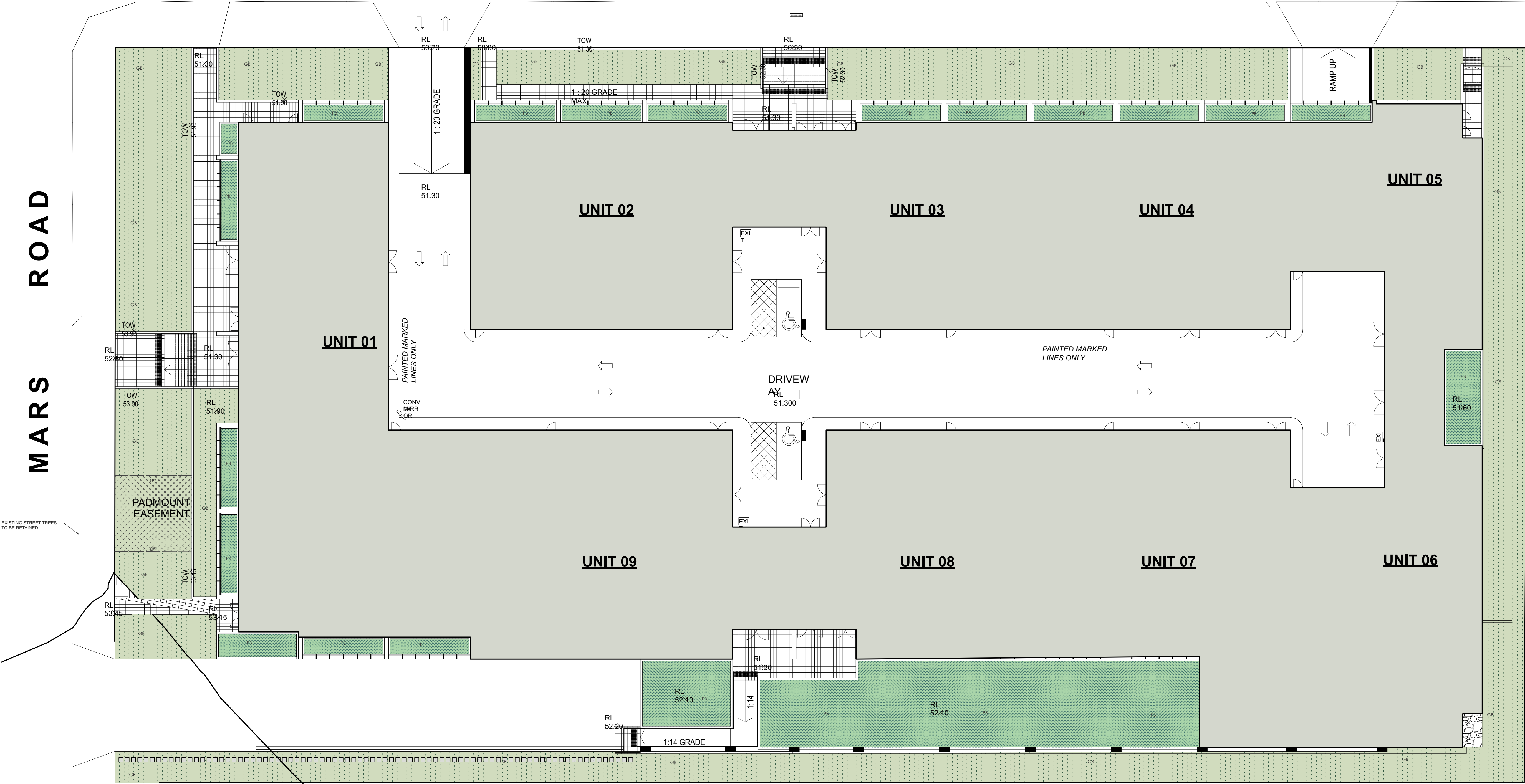
The irrigation works shall include all mechanical, hydraulic requirements to the performances required and includes but is not limited to the following:

- Design of dripline irrigation system and related hydraulic / electrical works for approval by the relevant authorities and for comment by the Superintendent.
- Attainment of all relevant authority approvals and inspections.
- Connection to water service
- Construction and testing of new irrigation pipework
- Instruction of operators.
- Maintenance of continuity of use, repair and/or replacement of utility services affected by the installation of the irrigation system.
- Excavation, shoring, dewatering and backfilling in all classes of material.
- Modification of existing structures commissioning of all works constructed under this project.
- All other works necessary for the required performance of the irrigation system.
- Excavation & backfill
- Maintenance period of 12 months.
- A minimum warranty period of 12 months for parts and labour on pumps, control system components and irrigation components.
- Visit site once a month during the warranty period to check the and monitor performance of the equipment and operators.

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					DRAWN: CL						SCALE: varies FULL SIZE: A1	ISSUE: B
					ISSUE						DRAWING NO: 2399.GD.03	

SIRIUS ROAD

MARS ROAD



LANDSCAPED AREA CALCULATIONS	
Total site area	(6,432m ² less area 1)
Total planter on site - Level 1	(1,700m ² less area 1)
(6.1% of site area)	
Total planter on site - Level 2	(22,100m ² less area 1)
(2.2% of site area)	
Total deep soil landscaped area	(15,900m ² less area 1)
(15.3% of site area)	

- LEGEND**
- Proposed planter bed
 - Proposed garden bed on deep soil
 - Mulched landscaped area on deep soil

- GENERAL NOTES:**
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ISSUE	AMENDMENT	DRAWN	DATE

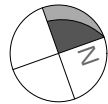
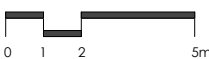
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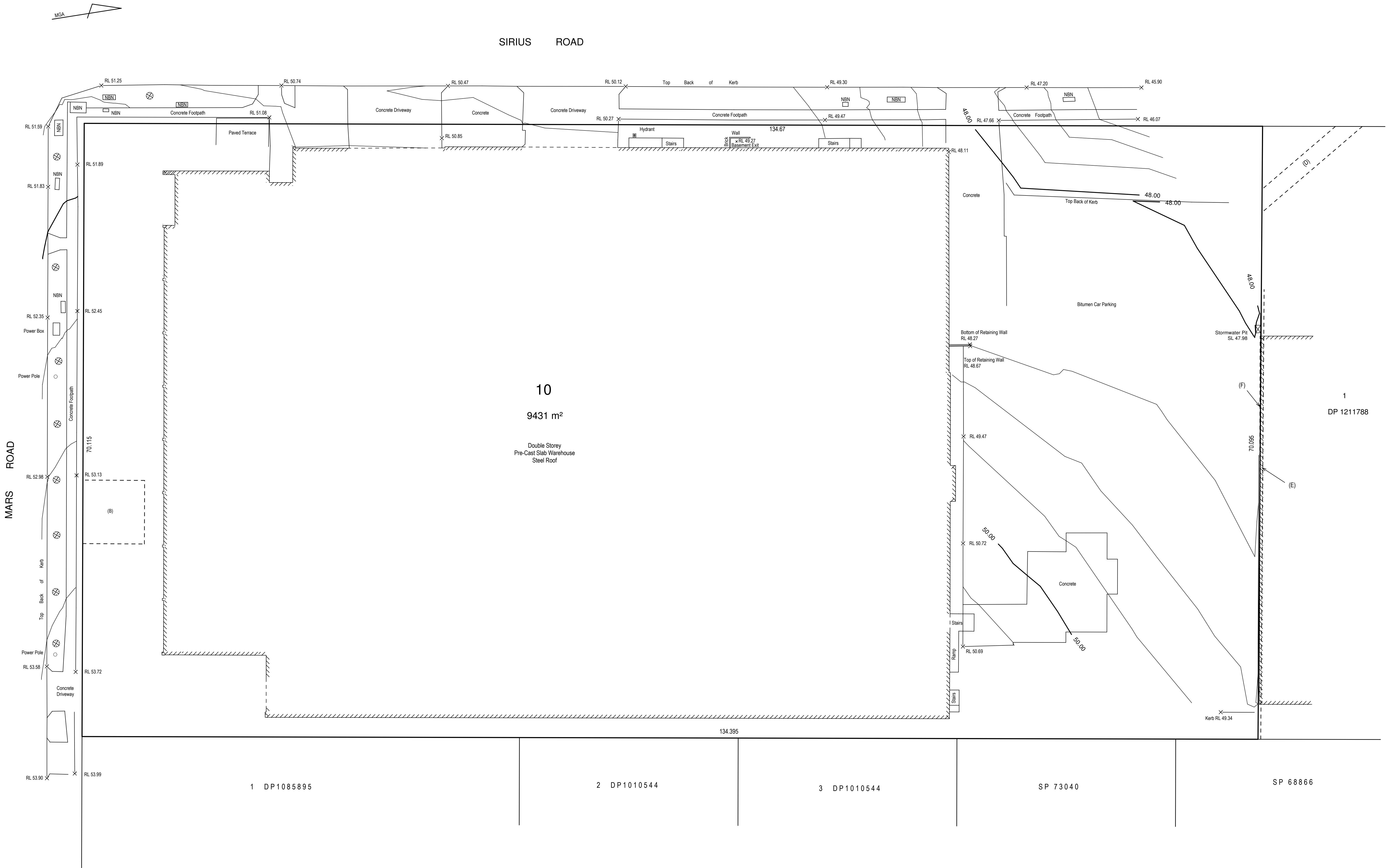
PROJECT:
PROPOSED BUSINESS CENTRE
PROJECT ADDRESS:
NO. 67 MARS ROAD LANE COVE

DRAWING TITLE:
Landscaped Area -Level 1

DATE:	MARCH 2022
SCALE:	1:200
FULL SIZE:	A1
ISSUE:	B
DRAWING NO:	2399.GD.04



(B) RIGHT OF WAY AND EASEMENT FOR ELECTRICITY PURPOSES (6985913C)
(D) EASEMENT TO DRAIN WATER 2 WIDE (DP 1036457)
(E) EASEMENT FOR SUPPORT VARIABLE WIDTH (DP 1036457)
(F) EASEMENT TO PERMIT ENCROACHING STRUCTURE TO REMAIN (PROPOSED DP 1036457)



Amendments	Date	By

27 Castle Hill Road
West Pennant Hills
NSW 2125

ROBERT MOORE AND ASSOCIATES PTY LTD
ENGINEERS, SURVEYING & DEVELOPMENT CONSULTANTS
Telephone : (02) 9484 4600
Fax Number : (02) 9484 4966
Email : enq@rmapl.com.au

Design :	SCALE : 1/200@A1
Drawn : MR	DATUM : AHD
Checked :	Date : MARCH 2021
L G A : LANE COVE	

Client : KITRON BMHM PTY LTD	Sheet No. 1 of 1 Sheets
Project : DETAIL PLAN Lot 10 DP 1036457 67 Mars Road Lane Cove West	DRAWING No. 210009 DT2