

## **PROJECT MAUL - ONCOLOGY** LANDSCAPE DEVELOPMENT APPLICATION DECEMBER 2019



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#### INDIGENOUS ACKNOWLEDGEMENT

Arcadia respectfully acknowledges the Traditional Custodians of the lands upon which the site is located. We acknowledge their unique ability to care for Country and deep spiritual connection to it. We honour Elders past, present and emerging whose knowledge and wisdom has and will ensure the continuation of cultures and traditional practices.



GENESIS MAUI HEALTHCARE WARRINGAH ROAD & WAKEHURST PARKWAY

PREPARED BYArcadia LaCLIENTGenesis CaARCHITECTTeam 2

andscape Architecture	DATE	Dec 2019
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### **ANALYSIS**

Located in Frenchs Forest along Warringah Road, a key transport corridor to the Northern Beaches, the Maui Encology Centre services patients from the nearby Northern Beaches Hospital.

The centre is located within an industrial estate, where the landscape character is tidy, albeit ubiquitous. Sited within a green grid connecting Garigal National Park to Middle Harbour, there is opportunity for the landscape design to strengthen ecological connections.

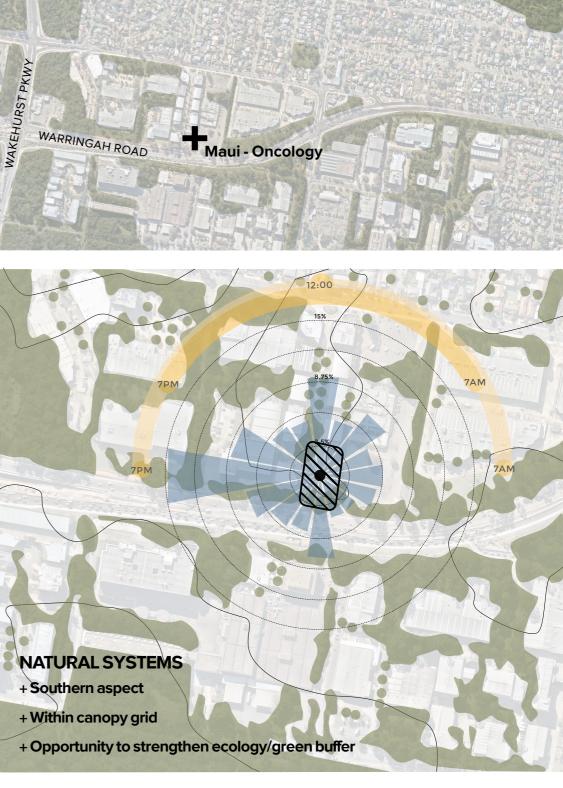












## ARCADIA

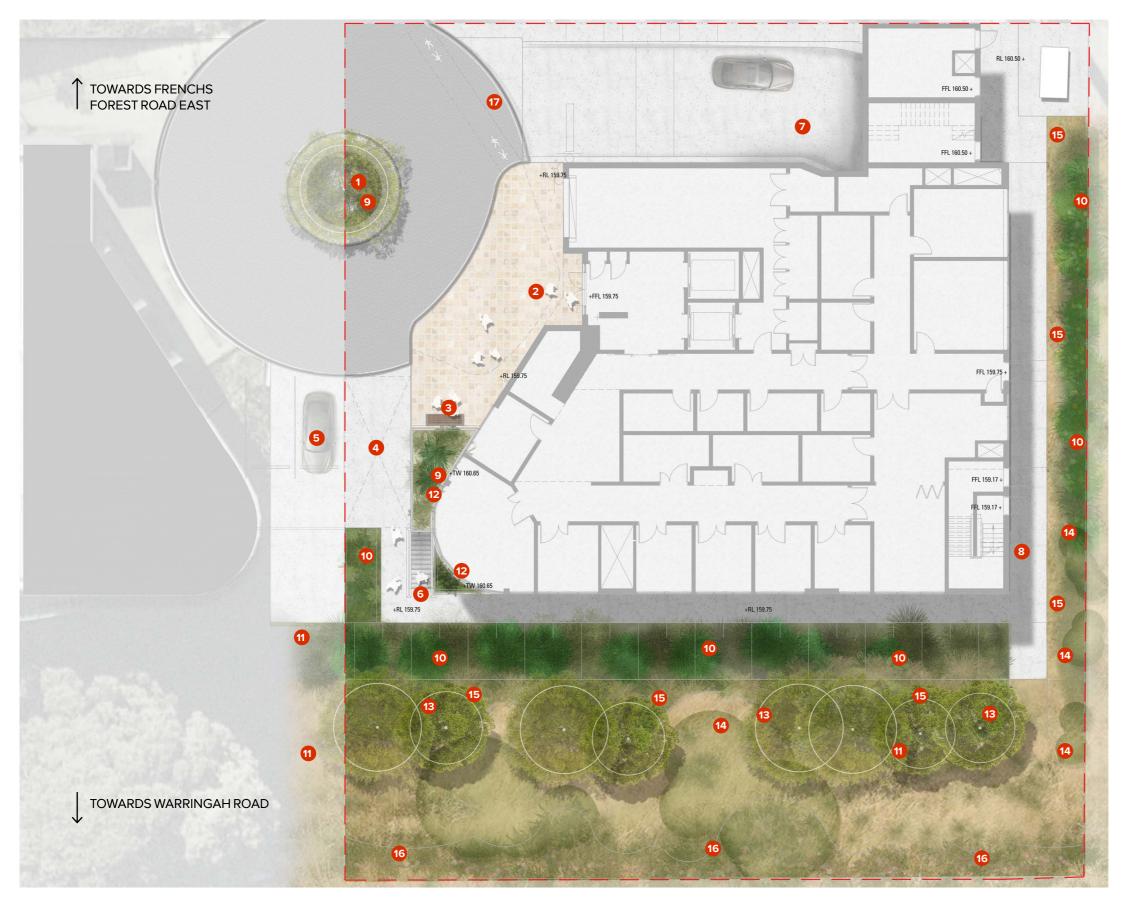
#### **GENESIS MAUI HEALTHCARE** WARRINGAH ROAD & WAKEHURST PARKWAY

PREPARED BY Arcadia Landscape Architecture DATE Dec 2019 CLIENT Genesis Care ARCHITECT Team 2

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001

## CONCEPT PLAN





**GENESIS MAUI HEALTHCARE** WARRINGAH ROAD & WAKEHURST PARKWAY

CLIENT Genesis Care ARCHITECT Team 2

Terminating the access road with feature planting endemic to the Northern Beaches, the landscape concept takes its cues from the surrounding landscape character and provides a well placed setting to work and visit.

Using local species, the planting palette is hardy, drought tolerant and provides habitat for local species and works to strengthen the green grid within the industrial estate as well as along the Warringah Road corridor.

#### **ELEMENTS**

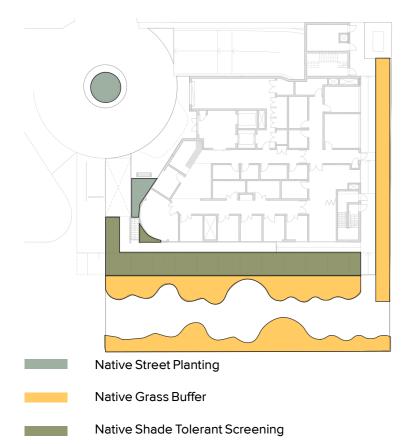
1	Feature planting to roundabout
2	Entryway and Drop off zone
3	Seating opportunity
4	Ambulance parking
5	Access parking
6	Basement access
7	Basement driveway
8	Rear access
9	Street planting
10	Buffer screening
11	Make good planting
12	Raised planters on slab
13	Proposed Native Trees
14	Existing trees to be retained
15	Native matrix planting
16	Native matrix grass planting
17	Proposed pedestrian crossing

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## PLANTING PALETTE

#### **PLANTING STRATEGY**



#### **GRASS BUFFER**



#### STREET PLANTING



#### SHADE SCREENING





**GENESIS MAUI HEALTHCARE** WARRINGAH ROAD & WAKEHURST PARKWAY

PREPARED BY Arcadia Landscape Architecture DATE Dec 2019 CLIENT Genesis Care ARCHITECT Team 2

SCALE NTS

003

# **GENESIS MAUI** WARRINGAH ROAD & WAKEHURST PARKWAY

## **DRAWING SCHEDULE**

## DRAWING NO. DRAWING TITLE

000 COVER SHEET

- 101 LANDSCAPE MASTERPLAN
- 201 LANDSCAPE DETAILS
- 301 LANDSCAPE SPECIFICATION

# PLANTING SCHEDULE

9-63	5 GENESIS MAUI PLANT SCHE	DULE		
CODE	BOTANIC NAME	COMMON NAME	MATURE SIZE (h x w) (m)	PROPOSED POT S
			(	
	TREES & PALMS			
Ss	Stenocarpus sinuatus	Firewheel Tree	10 x 4	75L
WS	Waterhousia 'Sweeper'	Weeping Lilly Pilly	10 x 5	75L
	SHRUBS & ACCENTS			
Ac	Alpinia caerulea	Native Ginger	2 x 2	200mm
Vj	Viminaria juncea	Australian Broom	5 x 3	200mm
BER	Banksia ericifolia 'Red Rover'	Banksia Red Rover	2 x 1.8	200mm
Gb	Grevillea buxifolia	Grey Spider Flower	2 x 1	200mm
	STREET MATRIX 01			
Gs	Grevillea speciosa	Red Spider Flower	1.5 x 1.5	150mm
BBC	Banksia spinulosa 'Birthday Candles'	Birthday Candles Banksia	0.5 x 1	150mm
Ag	Anigozanthos Spp.	Kangaroo Paws	1.5 x 1.5	150mm
Cm	Carpobrotus menziesii	Native Pigface	0.15 x spreading	150mm
LT	Lomandra 'Tanika'	Mat Rush	0.6 x 0.6	150mm
	NATIVE SHADE MATRIX 01			
Lp	Libertia paniculata	Grass Flag	$0.7 \ge 0.5$	200mm
Hv	Hardenbergia violacea	False Sarsaparilla	0.25 x spreading	150mm
Dr	Dichondra repens	Kidney Weed	0.2 x spreading	150mm
Aα	Asplenium australasicum	Birds Nest Fern	1.5 x 1.5	200mm
Ll	NATIVE GRASS MATRIX 01 Lomandra longifolia	Spiny Headed Mat Rush	1 x 1	150mm
PE	Poa labillardieri 'Eskdale'	Tussock Grass	0.5 x 0.5	150mm
Тα	Themeda australis	Kangaroo Grass	1 x 1	150mm
Dc	Dianella caerulea	Blue flax-lily	0.5 -1 x 0.5	150mm
			0.0 -1 x 0.0	

## **LOCATION PLAN**

SCALE: NTS



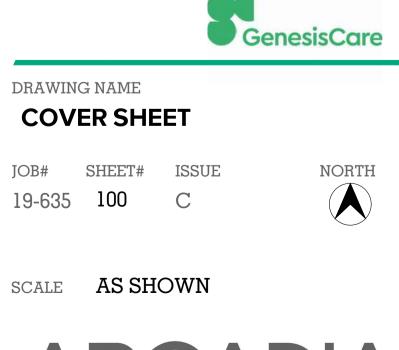


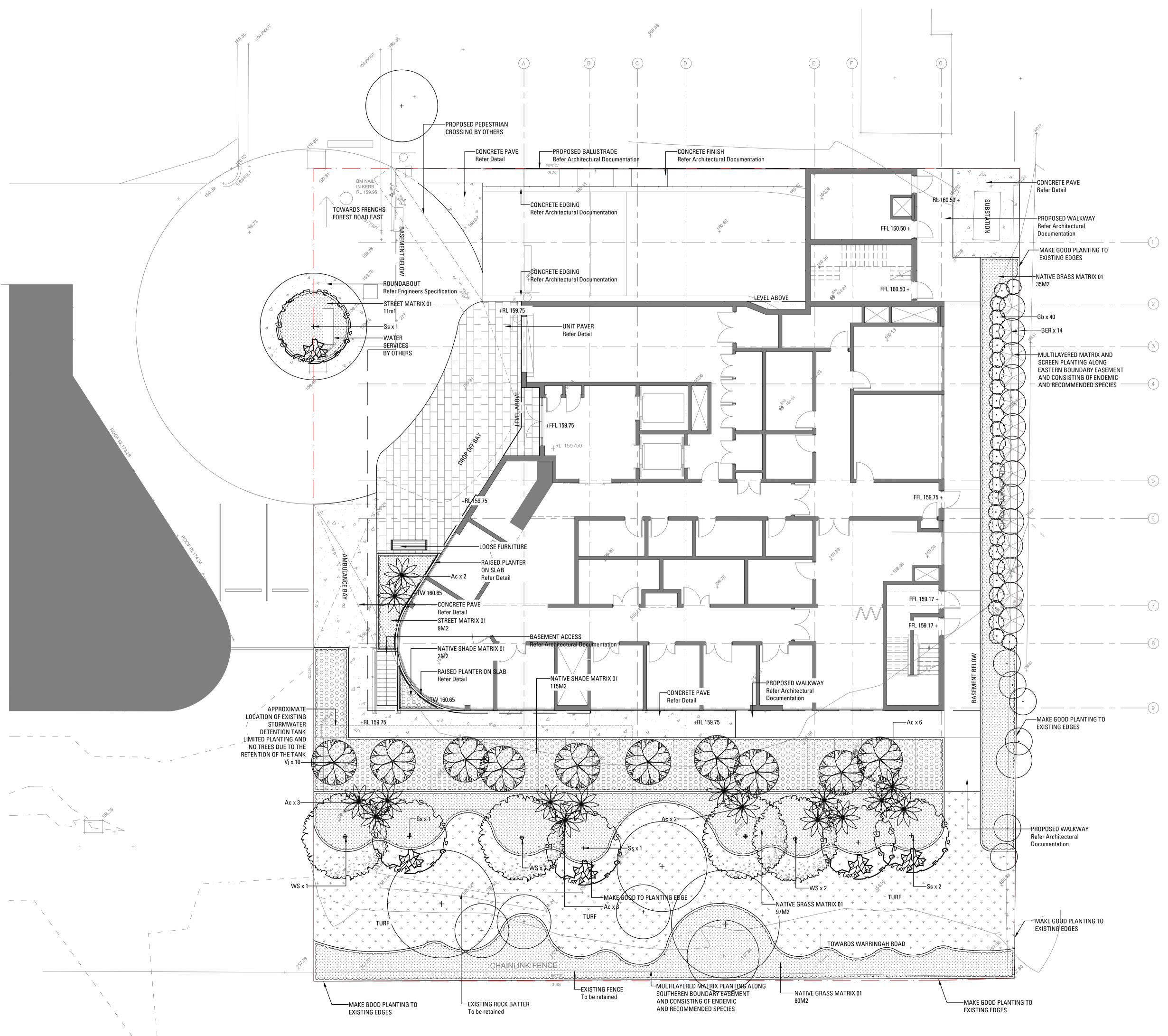
LEGEND

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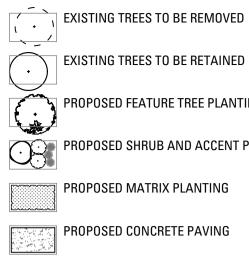
Issue	Revision Description	Drawn	Check	Date
A	FOR INFORMATION	SE	AL	30.08.201
A	FOR INFORMATION	SE	AL	03.09.201
A	FOR INFORMATION	SE	AL	05.09.201
В	FOR INFORMATION	SE	AL	17.10.201
С	FOR INFORMATION	SE	AL	05.12.201
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## GENESIS MAUI WARRINGAH RD & WAKEHURST PWY FRENCHS FOREST DEVELOPMENT APPLICATION





#### LEGEND



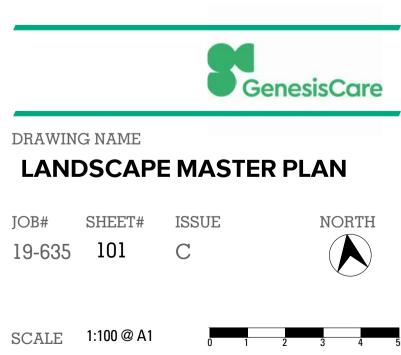
EXISTING TREES TO BE RETAINED PROPOSED FEATURE TREE PLANTING PROPOSED SHRUB AND ACCENT PLANTING PROPOSED MATRIX PLANTING ROPOSED CONCRETE PAVING

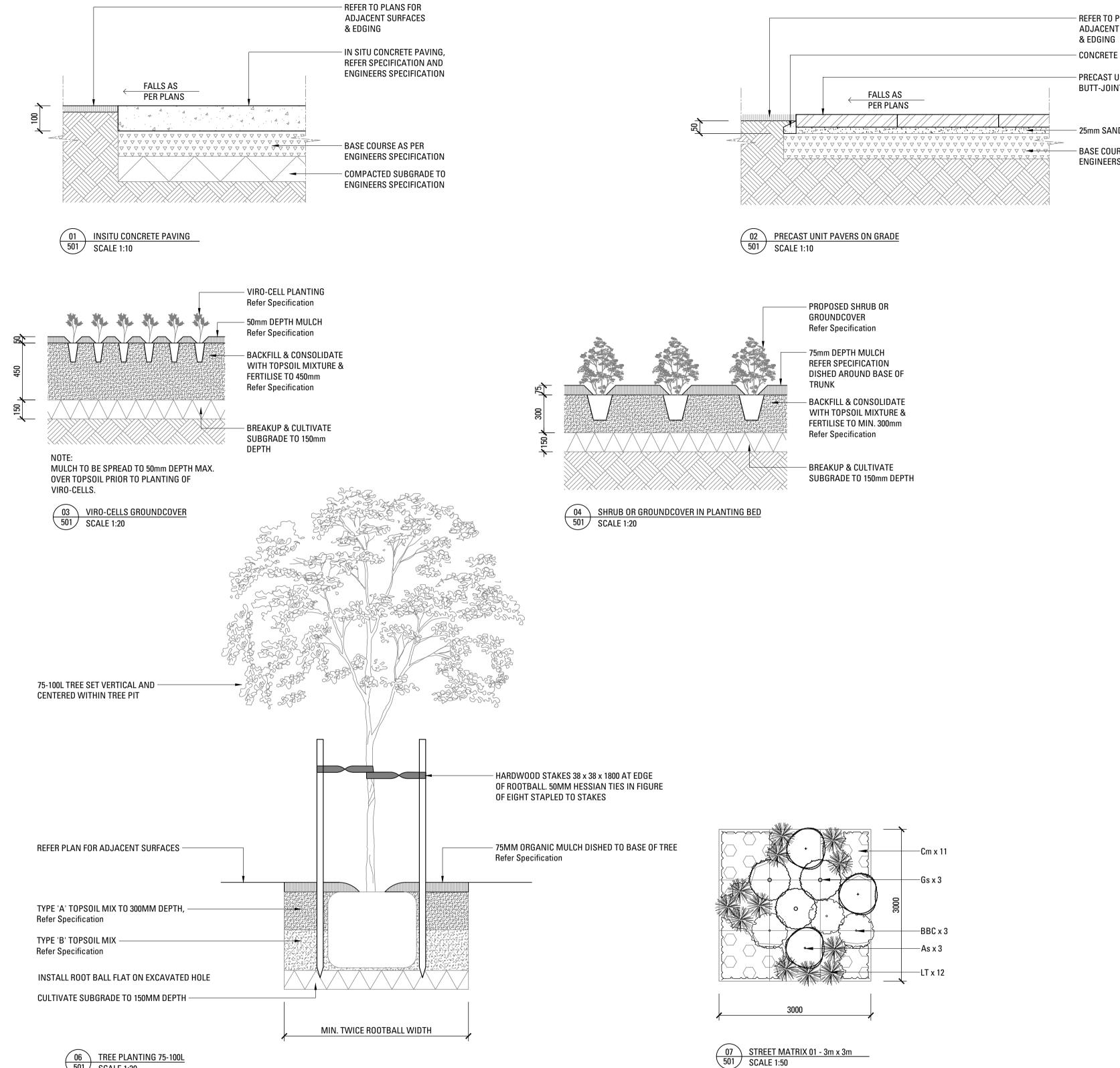
PROPOSED EDGING



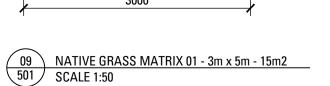
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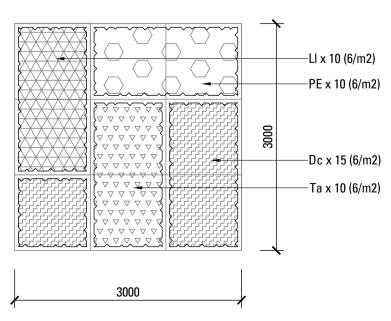




06 TREE PLANTING 75-100L 501 SCALE 1:20



NOTE: DETAIL IS INDICATIVE ONLY, PLANT ALL SPECIES RANDOMLY



25mm SAND BED - BASE COURSE TO

REFER TO PLANS FOR

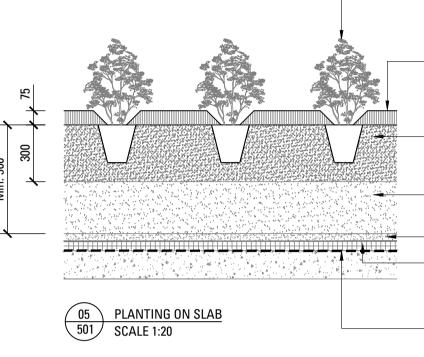
ADJACENT SURFACES

- PRECAST UNIT PAVING

- CONCRETE HAUNCH AT EDGE

BUTT-JOINTED AS SPECIFIED

ENGINEERS SPECIFICATION



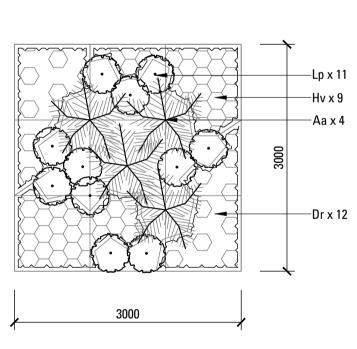
– PROPOSED SHRUB OR GROUNDCOVER Refer Plan & Schedule

– 75mm DEPTH MULCH DISHED AROUND BASE OF SHRUB Refer Specification

– TOPSOIL TYPE A **Refer Specification** 

— TOPSOIL TYPE B **Refer Specification** - COARSE WASHED RIVER SAND – DRAINAGE CELL AND GEOTEXTILE FILTER CLOTH **Refer Specification** 

- WATERPROOF MEMBRANE





08 NATIVE SHADE MATRIX 01 - 3m x 3m 501 SCALE 1:50 NOTE: DETAIL IS INDICATIVE ONLY, PLANT ALL SPECIES RANDOMLY

LEGEND

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GenesisCare

#### DRAWING NAME LANDSCAPE DETAILS

JOB# 19-635 **201** 

SHEET# ISSUE

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NORTH

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#### LANDSCAPE SPECIFICATION NOTES

#### SERVICES

BEFORE LANDSCAPE WORK IS COMMENCED THE LANDSCAPE CONTRACTOR IS TO ESTABLISH THE POSITION OF ALL SERVI ENSURE TREE PLANTING IS CARRIED OUT AT LEAST 3 METRES AWAY FROM THESE SERVICES. SERVICE LIDS, VENTS AND HY SHALL BE LEFT EXPOSED AND NOT COVERED BY ANY LANDSCAPE FINISHES (TURFING, PAVING, GARDEN BEDS ETC.) FINISH SURFACES FLUSH WITH PIT LIDS.

#### **ABORIST MANAGEMENT OF TREE PROTECTION**

A QUALIFIED AND APPROVED ABORIST IS TO BE CONTRACTED TO UNDERTAKE OR MANAGE THE INSTALLATION OF PROTEC AND TO UNDERTAKE SUCH MEASURES AS HE DEEMS APPROPRIATE TO PRESERVE THE SUBJECT TREES TO BE RETAINED. IS TO BE RETAINED FOR THE ENTIRE CONTRACT PERIOD TO UNDERTAKE ONGOING MANAGEMENT AND REVIEW OF THE TRI

#### DRAINAGE CELL AND FILTER FABRIC

FOR ON-SLAB AREAS INSTALL AN APPROVED 'DRAINAGE CELL' PRODUCT TO COMPREHENSIVELY COVER THE BOTTOM OF A OVER DRAINAGE CELL TO ON-SLAB AREAS, A POLYFELT GEOTEXTILE LINING (AS SUPPLIED BY 'POLYFELT TS' OR APPROVED IS TO BE INSTALLED TO COVER THE BOTTOM OF ALL PLANTERS, TURNED UP 300MM AND TAPED TO THE PLANTER SIDES TO MIX DOES NOT ESCAPE INTO DRAINAGE OUTLETS/HOLES. INSTALL MIN. 50MM COARSE RIVER SAND OVER ALL GEOTEXTIL PRIOR TO INSTALLATION OF SOIL MIX.

#### PLANTING MIXTURE

SHALL BE HOMOGENOUS BLEND OF SOIL AND ADDITIVES IN THE FOLLOWING PROPORTIONS: **EXISTING SITE SOIL IF SUITABLE OR** IMPORTED TOPSOIL 50% COMPOST 30% D/W SAND 20% SOIL TESTING OF EXISTING SITE SOIL IS TO BE UNDERTAKEN TO ASSESS SUITABILITY OF USE AS PLANTING TOPSOIL AND WITH AUSTRALIAN STANDARDS.

#### MULCH APPLICATION

PLACE MULCH TO THE REQUIRED DEPTH, (REFER TO DRAWINGS) CLEAR OF PLANT STEMS, AND RAKE TO AN EVEN SURFACE 25MM BELOW ADJOINING LEVELS. ENSURE MULCH IS WATERED IN AND TAMPED DOWN DURING INSTALLATION.

#### **MULCH TYPE**

PINE BARK: FROM MATURE TREES, GRADED IN SIZE FROM 15MM TO 30MM, FREE FROM WOOD SLIVERS. DARK BROWN IN C TEXTURE.

#### COMPOST

SHALL BE WELL ROTTED VEGETATIVE MATERIAL OR ANIMAL MANURE, OR OTHER APPROVED MATERIAL, FREE FROM HARM CHEMICALS, GRASS AND WEED GROWTH AND WITH NEUTRAL PH. PROVIDE A CERTIFICATE OF PROOF OF PH UPON REQUES

#### **PLANT MATERIAL**

ALL PLANTS SUPPLIED ARE TO CONFORM WITH THOSE SPECIES LISTED IN THE PLANT SCHEDULE ON THE DRAWINGS. GEN PLANTS SHALL BE VIGOROUS, WELL ESTABLISHED, HARDENED OFF, OF GOOD FORM CONSISTENT WITH SPECIES OR VARIE OR FORCED, FREE FROM DISEASE OR INSECT PESTS WITH LARGE HEALTHY ROOT SYSTEMS AND NO EVIDENCE OF HAVING RESTRICTED OR DAMAGED. TREES SHALL HAVE A LEADING SHOOT. IMMEDIATELY REJECT DRIED OUT, DAMAGED OR UNHE MATERIAL BEFORE PLANTING. ALL STOCK IS TO BE CONTAINER GROWN FOR A MINIMUM OF SIX (6) MONTHS PRIOR TO DEL

#### FERTILISER MASS PLANTING AREAS:

FERTILISER SHALL BE 'NUTRICOTE' OR APPROVED EQUIVALENT IN GRANULE FORM INTENDED FOR SLOW RELEASE OF PLAN OVER A PERIOD OF APPROXIMATELY NINE MONTHS. THOROUGHLY MIX FERTILISER WITH PLANTING MIXTURE AT THE RECO RATE, PRIOR TO INSTALLING PLANTS.

#### **STAKING AND TYING**

STAKES SHALL BE STRAIGHT HARDWOOD, FREE FROM KNOTS AND TWISTS, POINTED AT ONE END AND SIZED ACCORDING TO SIZE OF PLANTS TO BE STAKED

A. 5-15 LITRE SIZE PLANT 1X(1200X25X25MM)

B. 35-75 LITRE SIZE PLANT 2X(1500X38X38MM)

C. 100-GREATER THAN 200LITRE 3X(1800X50X50MM)

TIES SHALL BE 50MM WIDE HESSIAN WEBBING OR APPROVED EQUIVALENT NAILED OR STAPLED TO STAKE. DRIVE STAKES ONE THIRD OF THEIR LENGTH, AVOIDING DAMAGE TO THE ROOT SYSTEM, ON THE WINDWARD SIDE OF THE PLANT.

#### **IRRIGATION SYSTEM**

SUPPLY AN AUTOMATIC WATERING SYSTEM USING 'TORO IRRIGATION SYSTEM' OR SIMILAR APPROVED, WITH MICRO-JE HEADS AND LOW DENSITY, RUBBER MODIFIED POLYPROPYLENE RETICULATION, TO INCLUDE FILTERS, BENDS JUNCTIONS, OTHER ANCILLARY EQUIPMENT. THE LANDSCAPER SHALL NOMINATE HIS SOURCE OF SUPPLY FOR THE WATERING SYSTEM APPROVAL FROM THE SUPERINTENDENT BEFORE PLACING ORDERS FOR EQUIPMENT OR SUPPLY.

A SCHEMATIC PLAN OF THE PROPOSED IRRIGATION SYSTEM IS TO BE PREPARED BY THE CONTRACTOR, SHOWING SOLENO DIAMETERS, AND ALL NOZZLE AND TRICKLE ATTACHMENT TYPES (INCLUDING SPRAY/HEAD ANGLE), FOR REVIEW BY THE SUPERINTENDENT PRIOR TO INSTALLATION

THE CONTRACTOR IS TO LIASE WITH THE HYDRAULIC ENGINEER AND COUNCIL AS NECESSARY, TO ENSURE THE THE IRRIGA CONFORMS WITH ALL THE COUNCIL AND WATER BOARD CODES AND REQUIREMENTS.

PROVIDE AN AUTOMATIC CONTROLLER THAT PROVIDES FOR TWO WEEK SCHEDULING AND HOURLY MULTI-CYCLE OPERATI CONTROLLER SHALL MANUAL OVERRIDE. PROGRAMMING SHALL BE UNDERTAKEN BY THE CONTRACTOR WHO SHALL ADVISE ON THE **OPERATION OF THE SYSTEM.** 

CE LINES AND YDRANTS H ADJOINING	PROVISION OF SECURE HOUSING FOR THE AUTOMATIC IRRIGATION CONTROLLER TO BE LOCATED IN ASSOCIATION LANDSCAPE CONTRACTOR AND LOCATION CONFIRMED BY THE SUPERINTENDENT. WIRING TO CONNECT REMINS TO BE PROVIDED. THE CONTROLLER SHALL BE LOCATED IN A DRY PLACE, PROTECTED FROM THE WEATHER, CONNECTIONS SHALL BE MADE WITH WATERPROOF CONNECTORS.
	WATER SUPPLY POINTS TO BE SUPPLIED BY BUILDER.
CTIVE FENCING, THE ARBORIST EES.	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE AND GUARANTEE SATISFACTORY OPERATION O SYSTEM.
ALL PLANTERS. ) EQUIVALENT)	AFTER THE SYSTEM HAS BEEN INSTALLED TO THE SATISFACTION OF THE SUPERINTENDENT, THE INSTALLATION UNDER KNOWN WORKING CONDITIONS. ACCEPTANCE OF THE INSTALLED PLANT AND EQUIPMENT SHALL BE SATISFACTORY.
D ENSURE SOIL E LINING	<b>TREATED PINE TIMBER EDGING</b> TIMBER EDGE: 100 X 25MM CCA TREATED RADIATA PINE TIMBER STAKES: 50 X 50 X 500MM CCA TREATED RAD ONE END. INSTALL IN LOCATIONS SHOWN ON THE DRAWINGS FLUSH TO FINISHED SURFACE LEVELS.
	LANDSCAPE MAINTENANCE PROGRAM
COMPLIANCE	MAINTENANCE SHALL MEAN THE CARE AND MAINTENANCE OF THE LANDSCAPE WORKS BY ACCEPTED HORT RECTIFYING ANY DEFECTS THAT BECOME APPARENT IN THE LANDSCAPE WORKS UNDER NORMAL USE. THIS S NOT BE LIMITED TO, WATERING, MOWING, FERTILISING, RESEEDING, RETURFING, WEEDING, PEST AND DISEA AND TYING, REPLANTING, CULTIVATION, PRUNING, AERATING, RENOVATING, TOP DRESSING, MAINTAINING T TIDY CONDITION AS FOLLOWS:-
E FINISHING	GENERAL THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE WORKS FOR THE TERM OF THE MAINTENA ESTABLISHMENT) PERIOD TO THE SATISFACTION OF THE COUNCIL. THE LANDSCAPE CONTRACTOR SHALL ATT WEEKLY BASIS. THE MAINTENANCE PERIOD SHALL COMMENCE AT PRACTICAL COMPLETION AND CONTINUE
COLOUR AND	SIX (26) WEEKS.
	<b>WATERING</b> GRASS, TREES AND GARDEN AREAS SHALL BE WATERED REGULARLY SO AS TO ENSURE CONTINUOUS HEALTH
AFUL ST. IERALLY	<b>RUBBISH REMOVAL</b> DURING THE TERM OF THE MAINTENANCE PERIOD THE LANDSCAPE CONTRACTOR SHALL REMOVE RUBBISH T REOCCUR THROUGHOUT THE MAINTENANCE PERIOD. THIS WORK SHALL BE CARRIED OUT REGULARLY SO THA THE AREA MAY BE OBSERVED IN A COMPLETELY CLEAN AND TIDY CONDITION.
TY, NOT SOFT BEEN EALTHY PLANT LIVERY TO SITE	<b>REPLACEMENTS</b> THE LANDSCAPE CONTRACTOR SHALL REPLACE ALL PLANTS THAT ARE MISSING, UNHEALTHY OR DEAD AT TH CONTRACTOR'S COST. REPLACEMENTS SHALL BE OF THE SAME SIZE, QUALITY AND SPECIES AS THE PLANT TH OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. REPLACEMENTS SHALL BE MADE ON A CONTINUING E TWO (2) WEEKS AFTER THE PLANT HAS DIED OR IS SEEN TO BE MISSING.
NT NUTRIENTS OMMENDED	<b>STAKES AND TIES</b> THE LANDSCAPE CONTRACTOR SHALL REPLACE OR ADJUST PLANT STAKES, AND TREE GUARDS AS NECESSAI LANDSCAPE ARCHITECT. REMOVE STAKES AND TIES AT THE END OF THE MAINTENANCE PERIOD IF SO DIRECT
	<b>PRUNING</b> TREES AND SHRUBS SHALL BE PRUNED AS DIRECTED BY THE LANDSCAPE ARCHITECT. PRUNING WILL BE DIRI MAINTENANCE OF THE DENSE FOLIAGE OR MISCELLANEOUS PRUNING AND BENEFICIAL TO THE CONDITION O DAMAGED GROWTH SHALL BE PRUNED. ALL PRUNED MATERIAL SHALL BE REMOVED FROM THE SITE.
S A MINIMUM	<b>MULCHED SURFACES</b> ALL MULCHED SURFACES SHALL BE MAINTAINED IN A CLEAN AND TIDY CONDITION AND BE REINSTATED IF N THAT A DEPTH OF 75MM IS MAINTAINED. ENSURE MULCH IS KEPT CLEAR OF PLANT STEMS AT ALL TIMES.
T SPRINKLER ENDS AND A AND OBTAIN	<b>PEST AND DISEASED CONTROL</b> THE LANDSCAPE CONTRACTOR SHALL SPRAY AGAINST INSECT AND FUNGUS INFESTATION WITH ALL SPRAYI ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. REPORT ALL INSTANCES OF PESTS AND DISEASES ( ARE DETECTED) TO THE LANDSCAPE ARCHITECT.
DIDS, PIPE	WEED ERADICATION ERADICATE WEEDS BY ENVIRONMENTALLY ACCEPTABLE METHODS USING A NON-RESIDUAL GLYPHOSATE HE IN ANY OF ITS REGISTERED FORMULAE, AT THE RECOMMENDED MAXIMUM RATE. REGULARLY REMOVE BY HA MAY OCCUR OR RECUR THROUGHOUT GRASSED, PLANTED AND MULCHED AREAS. REMOVE WEED GROWTH FR DIAMETER AROUND THE BASE OF TREES IN GRASSED AREAS. CONTINUE ERADICATION THROUGHOUT THE COU DURING THE MAINTENANCE PERIOD.
ATION SYSTEM	SOIL SUBSIDENCE
ION. THE	ANY SOIL SUBSIDENCE OR EROSION WHICH MAY OCCUR AFTER THE SOIL FILLING AND PREPARATION OPERAT GOOD BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE CLIENT.

TION WITH THE **10TE SOLENOID LOCATIONS** AND ALL CABLE

#### OF THE IRRIGATION

#### ON SHALL BE TESTED SUBJECT TO THESE BEING

DIATA PINE-SHARPENED AT

**TICULTURAL PRACTICE AS** SHALL INCLUDE, BUT SHALL SE CONTROL, STAKING THE SITE IN A NEAT AND

NCE (OR PLANT TEND TO THE SITE ON A FOR A PERIOD OF TWENTY

HY GROWTH.

THAT MAY OCCUR AND AT AT WEEKLY INTERVALS

#### HE LANDSCAPE HAT HAS FAILED UNLESS BASIS NOT EXCEEDING

RY OR AS DIRECTED BY THE ED.

ECTED AT THE F THE PLANTS. ANY

**VECESSARY TO ENSURE** 

ING TO BE CARRIED OUT IN (IMMEDIATELY THAT THEY

ERBICIDE (EG. 'ROUNDUP') AND, WEED GROWTH THAT ROM AN AREA 750MM URSE OF THE WORKS AND

TIONS SHALL BE MADE

#### NOT FOR CONSTRUCTION

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## DRAWING NAME

LANDSCAPE DETAILS

JOB# SHEET# ISSUE 19-635 **301** 

С

NORTH

SCALE NTS





Lower Deck Jones Bay Wharf Suite 76 26-32 Pirrama Road Pyrmont NSW 2009 p+61 2 8571 2900 w www.arcadiala.com.au

21<sup>st</sup> October 2019

Mr Ryan Cooke Contracts Administrator Erilyan 1/27 Hotham Parade Artarmon NSW 2064

#### RE: E179 - Maui - Landscape Documentation

Dear Mr Ryan Cooke,

This letter has been prepared in response to comments to the landscape architectural drawing set in relation to the E179 Genesis Maui development.

**Comment 01:** The plans are not considered to adequately address the local planning controls, particularity in relation to the side setback treatment and setback to the main road (Warringah Road). The controls envisage high quality landscape treatment for a business park and dense native planting to the landscape setback areas to enable integration with the streetscape and surrounding development.

**Response 01:** We have added native matrix planting along the Eastern boundary easement and some screen planting consisting of some endemic and recommended species from the Northern Beaches Hospital Connectivity and Network Enhancement Project (see link below).

[https://www.rms.nsw.gov.au/projects/01documents/northern-beaches-hospital/nbh-urbanlandscape-design-report.pdf]

**Comment 02:** The plans indicate extensive areas of turf and few local native canopy tree and taller shrub species in the treatments.

**Response 02:** We have restricted planting to the Southern area of the site due to an existing stormwater detention tank that is to be retained. We have also restricted tree planting to the Eastern boundary easement due to existing electrical services easement.

Kind regards,

Max florgly

Alex Longley Principal BLarch (UC) AAILA