

Metal garden edging

Trees proposed to be removed and replaced with new landscaping

Existing trees proposed to be retained and

Street tree tree guard & (garden edging)

Existing paving to public footpath.

Re-instate where is necessary

Existing Concrete footpath

Lawn to nature strip to match existing

Boundary

Proprietary outdoor furniture to be nom. by client to manufacturer's specification

KEY

Top Of Wall Finished Floor Level Reduced Level Existing level

Botanical Name: Alcantarea imperialis

Ruby Imperial Bromeliad Pot size: Mature H x S: 0.8m x 0.9m

Qty Required: Botanical Name: Agave attenuata Common Name: Century Plant (Exotic) Pot size: 300mm Mature H x S: 1.0m x 1.0m

Qty Required: Botanical Name: Cordyline 'Rubra' Common Name: Rubra Cordyline (Exotic) Pot size: 200mm Mature H x S:

800mm x 800mm

AILA Associat

Botanical Name: Alternanthera 'Little Rubv' Bronze Ramble

Pot size: Tube stock Mature H x S: 0.3m x spreading 6/m2 (16m2 total) Qty Required:

Botanical Name: Cycad revoluta Common Name: Sago Palm (Native) Pot size: 300mm Mature H x S: 1.2m x 1-1.5m Qty Required:

Botanical Name: Doryanthes excelsa Common Name: Gymea Lily (Native) Pot size: 300mm Mature H x S: 1.1m x 1m Qty Required:

Mature H x S: Qty Required:

REV DATE

Common Name: Flax Lily (Native) Pot size: Tube stock Mature H x S: 0.6m x 0.65m Qty Required:

(to match exiting neighboring tree)

Botanical Name: Carpobrotus

Common Name: Aussie Ramble

7m x7m

Pot size:

Qtv Required:

'Aussie Ramblei

Pigface (Native)

Pot size:

Heiaht:

Botanical Name: Dianella 'Clarity Blue' 6/m2 (3.5m2 total) NOTATION/AMENDMENT

Tubestock

0.25m x spreading

5/m2 (8m2 total)

(Exotic) Pot size: Mature H x S: **Qtv Required:**

Common Name: Dwarf Mat Rush (Native) Pot size:

Mature H x S: 0.8m x 0.8m Qty Required:

Botanical Name: Strelitzia nicolai

Common Name: Giant Bird of Paradise

2-6m x 3m

Laundiscause Aircinfitectis

enquiries@conzept.net.au Mob: 0413 861 35

-PUBLIC DOMAIN PROPOSED RESIDENTIAL

1:200 @ A3 AUGUST 2021

E.W

LPDA 20 - 190 / 1

R.F

DEVELOPMENT

50 LAWRENCE STREET

LOCATION PLAN 👍

REV.

В

Α

TREE SURVEY

DRAWING SCHEDULE

DRAWING TITLE

DETAILS

SECTIONS

SPECIFICATION

HARDSCAPE PLAN

LANDSCAPE PLAN-LV1 D

LANDSCAPE PLAN-LV2 D

LANDSCAPE PLAN-LV3 D

SHEET#

/2

/3

/4

/5

/6

/7

Existing Trees based on Arborists Report by Aura Tree Services prepared on AUGUST 202120 No.# Species Size (Ht x Sp) Condition Action

1	Gleditsia triacanthos		7x7.5	Good	Remove & replace
2	Cupress	sus sempervirens	14.5x5	Good	Remove
- 3	Gleditsia triacanthos		6.5x6.5	Fair	Remove & replace
REV	EV DATE NOTATION/AMENDMENT				
Α	30.03.20 Preliminary plan prepared for review				
В	3 03.04.20 Co-ordinated with architect's comments & stormwater plan				

LANDSCAPE PLAN NOTES

C 24.03.21 Co-ordinated with council comments

D 25.08.21 Co-ordinated with council comments

This plan should be read in conjunction with the architectural and hydraulics plans. Work specific to these plans should be prepared in accordance to these plans, including specification and details prior to the installation of landscaping, and should not be altered or compromised during landscape construction. Elements such as drainage swales may be incorporated in garden bed areas (using non-floatable mulch) without compromising the capacity or form.

This plan has been prepared for Development Application approval only, not for construction

This plan has been prepared with reference to NORTHERN BEACHES Councils Landscaping Guidelines & requirements. Planting proposed using mainly indigenous, commercially available plant species selected from local planting lists and the BASIX local plant list and from Sydney Waters "Plant Selector"web site one-drip rated native plants (acceptable for Basix planting)

The Design & location of new letter boxes shall be in accordance with Australia Post's "Requirements for Delivery of Mail to Residential Premises" published Feb '97. All noxious weeds listed in Councils weed lists & located on the site shall be continually removed & suppressed. Reinstate all boundary fencing in poor condition with Council approved 1.8m fencing to rear of building line, rake to 1m forward of BL. Pollution, sediment & erosion control devices as specified shall be in place, and Botanical Name: Lomandra longifollia 'Tanika' maintained for the duration of the construction period. Proposed excavation near existing established trees to be supervised by arborist.

> D.A approved landscape plan's are required to be constructed as approved to obtain occupancy certificate. Permeable areas may be indicated to achieve site coverage restrictions & should be constructed as drawn on this plan.

General Notes:

ceeding with the work

Qty Required:

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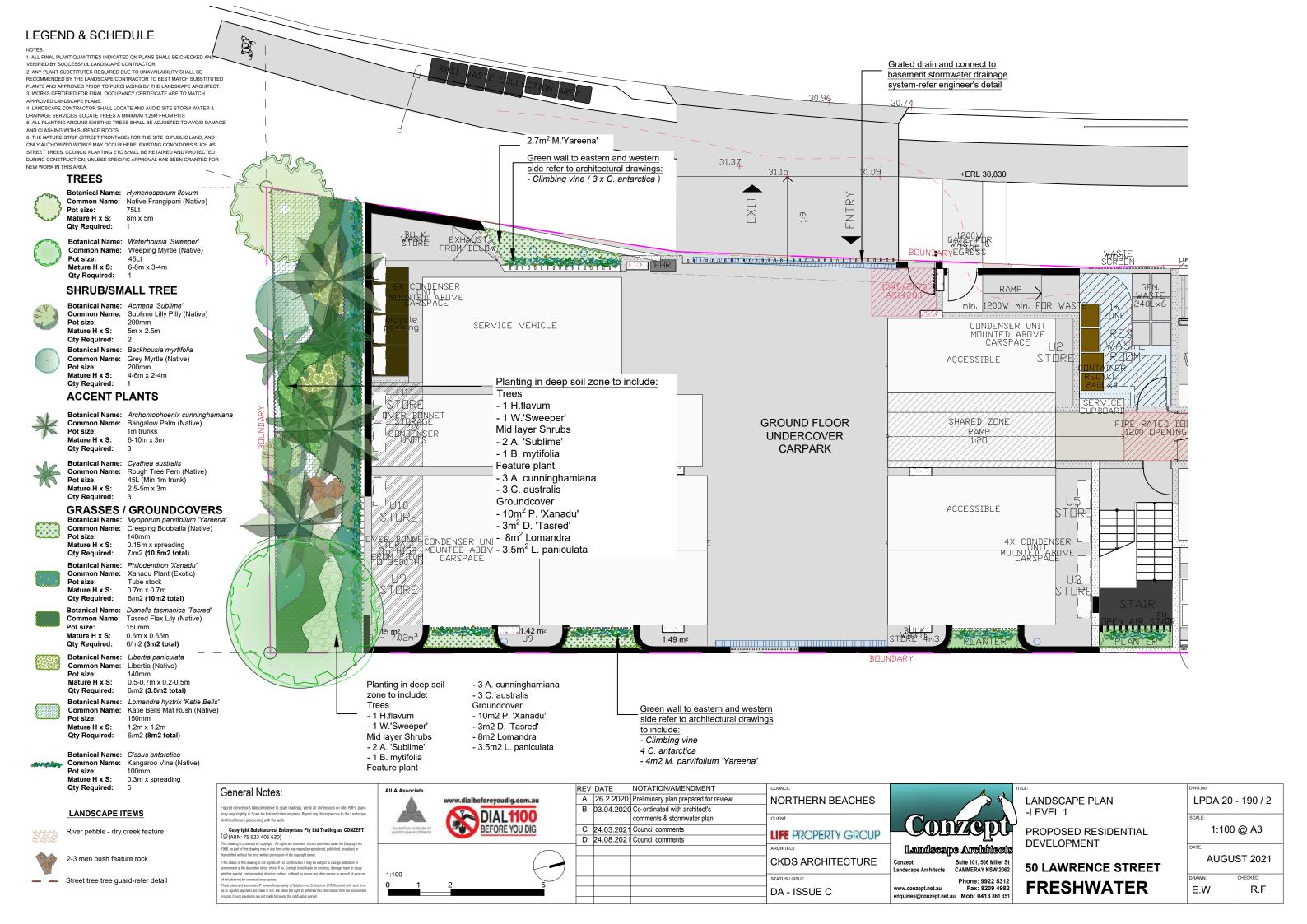
A 26.2.2020 Preliminary plan prepared for review NORTHERN BEACHES B 03.04.2020 Co-ordinated with architect's comments & stormwater plan 19.03.2021 Draft review LIFE PROPERTY GROUP C 24.03.2021 Council comments D 24.08.2021 Council comments CKDS ARCHITECTURE STATUS / ISSUE DA - ISSUE D

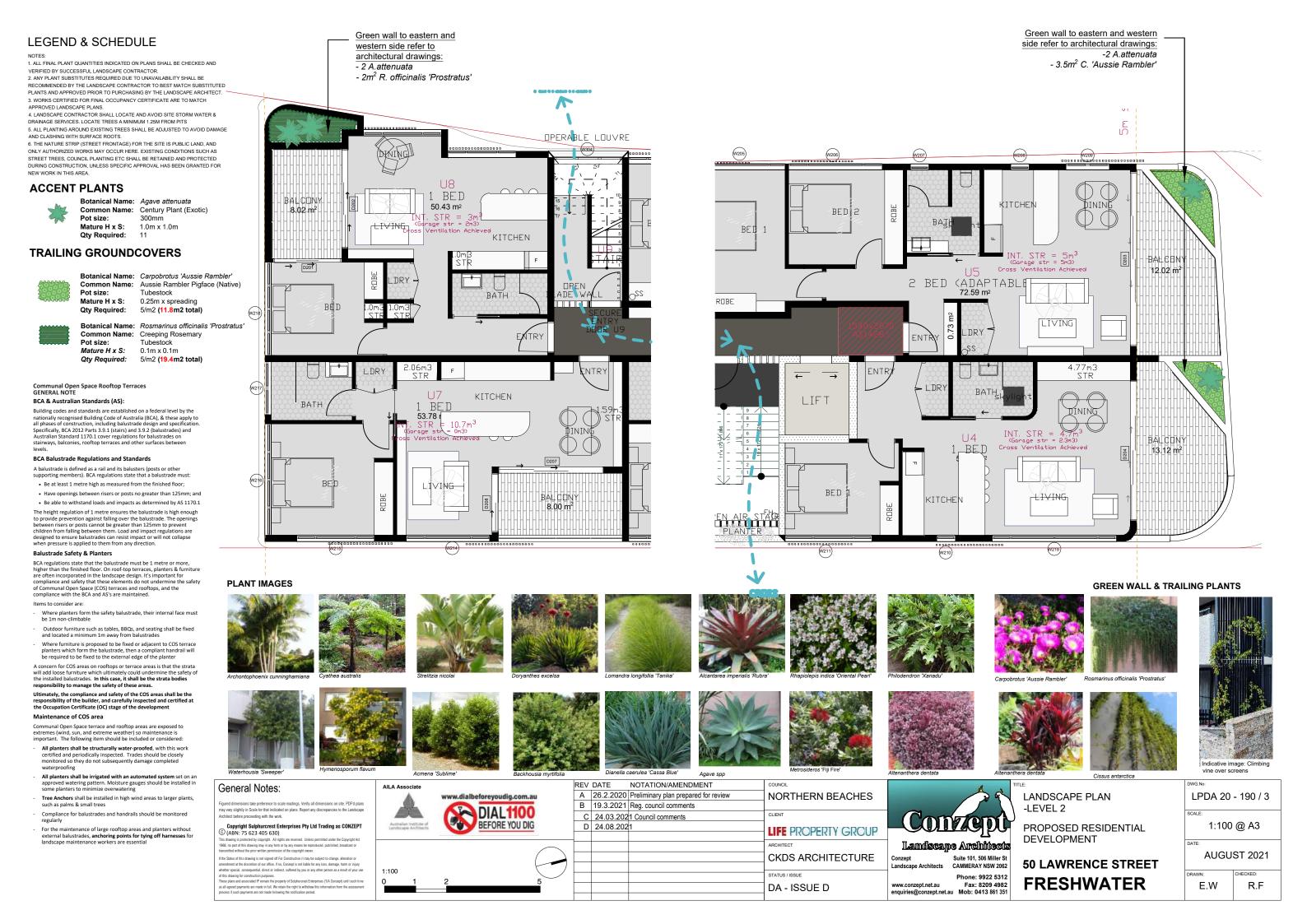
SITE PLAN

Phone: 9922 5312

Suite 101, 506 Miller St

FRESHWATER





LEGEND & SCHEDULE

ALL FINAL PLANT QUANTITIES INDICATED ON PLANS SHALL BE CHECKED AND

VERIFIED BY SUCCESSFUL LANDSCAPE CONTRACTOR.

2. ANY PLANT SUBSTITUTES REQUIRED DUE TO UNAVAILABILITY SHALL BE RECOMMENDED BY THE LANDSCAPE CONTRACTOR TO BEST MATCH SUBSTITUTED PLANTS AND APPROVED PRIOR TO PURCHASING BY THE LANDSCAPE ARCHITECT.

3. WORKS CERTIFIED FOR FINAL OCCUPANCY CERTIFICATE ARE TO MATCH APPROVED LANDSCAPE PLANS

4. LANDSCAPE CONTRACTOR SHALL LOCATE AND AVOID SITE STORM WATER & DRAINAGE SERVICES. LOCATE TREES A MINIMUM 1.25M FROM PITS

5. ALL PLANTING AROUND EXISTING TREES SHALL BE ADJUSTED TO AVOID DAMAGE

 AND CLASHING WITH SURFACE ROOTS.
 THE NATURE STRIP (STREET FRONTAGE) FOR THE SITE IS PUBLIC LAND, AND ONLY AUTHORIZED WORKS MAY OCCUR HERE. EXISTING CONDITIONS SUCH AS STREET TREES, COUNCIL PLANTING ETC SHALL BE RETAINED AND PROTECTED DURING CONSTRUCTION, UNLESS SPECIFIC APPROVAL HAS BEEN GRANTED FOR

150mm

200mm

1m x 1.2m

Botanical Name: Carpobrotus 'Aussie Rambler'

Tubestock

Tubestock

Mature H x S: 0.25m x spreading

Common Name: Creeping Rosemary

SHRUBS

Botanical Name: Metrosideros 'Tahiti' Common Name: NZ Christmas Bush (Exotic)

Pot size: Mature H x S: Otv Required:

Pot size:

Botanical Name: Rhaphiolepis indica 'Oriental Pearl'

Common Name: Indian Hawthorn (Exotic) **Mature H x S:** 1m x 0.8m

ACCENT PLANTS Botanical Name: Agave attenuata Common Name: Century Plant (Exotic) Pot size: 300mm Mature H x S: 1.0m x 1.0m Qty Required:

Botanical Name: Russelia equisetiformis Common Name: Firecracker (Exotic) Mature H x S: TRAILING GROUNDCOVERS

Pot size:

Qty Required: 5/m2 (10.8m2 total)

Pot size: Mature H x S: 0.1m x 0.1m Open Space Rooftop Terraces 5/m2 (5.5m2 total) GENERAL NOTE

BCA & Australian Standards (AS):

Building codes and standards are established on a federal level by the nationally recognised Building Code of Australia (BCA), & these apply to all phases of construction, including balustrade design and specification Specifically, BCA 2012 Parts 3.9.1 (stairs) and 3.9.2 (balustrades) and Australian Standard 1170.1 cover regulations for balustrades on stairways, balconies, rooftop terraces and other surfaces between

BCA Balustrade Regulations and Standards

A balustrade is defined as a rail and its balusters (posts or other supporting members). BCA regulations state that a balustrade must: Be at least 1 metre high as measured from the finished floor;

- Have openings between risers or posts no greater than 125mm; and Be able to withstand loads and impacts as determined by AS 1170.1

The height regulation of 1 metre ensures the balustrade is high enough to provide prevention against falling over the balustrade. The openings between risers or posts cannot be greater than 125mm to prevent children from falling between them. Load and impact regulations are designed to ensure balustrades can resist impact or will not collapse when pressure is applied to them from any direction.

Balustrade Safety & Planters

BCA regulations state that the balustrade must be 1 metre or more. higher than the finished floor. On roof-top terraces, planters & furniture are often incorporated in the landscape design. It's important for compliance and safety that these elements do not undermine the safety of Communal Open Space (COS) terraces and rooftops, and the ompliance with the BCA and AS's are maintained

Items to consider are:

- Where planters form the safety balustrade, their internal face must be 1m non-climbable
- Outdoor furniture such as tables, BBQs, and seating shall be fixed and located a minimum 1m away from balustrades
- Where furniture is proposed to be fixed or adjacent to COS terrace planters which form the balustrade, then a compliant handrail will be required to be fixed to the external edge of the planter

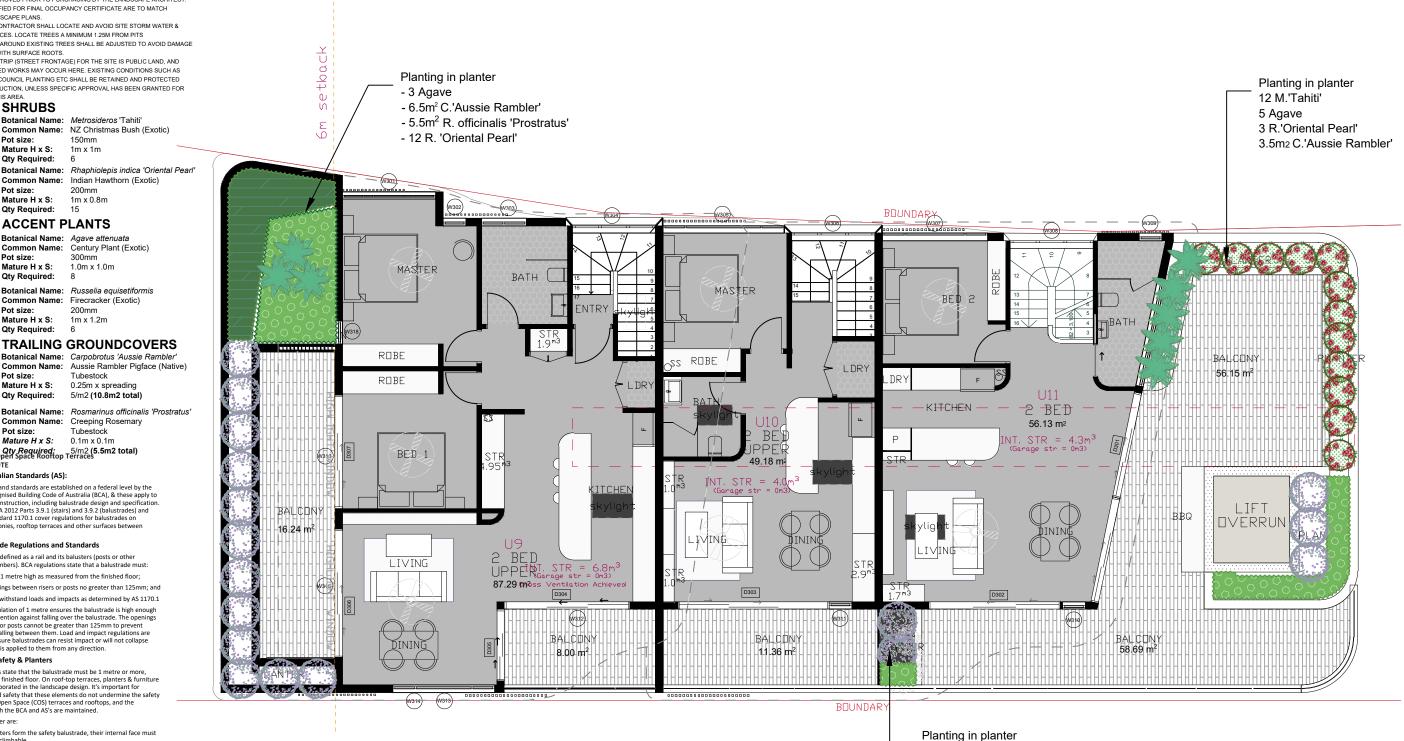
A concern for COS areas on rooftops or terrace areas is that the strata will add loose furniture which ultimately could undermine the safety of the installed balustrades. In this case, it shall be the strata bodies responsibility to manage the safety of these areas.

Ultimately, the compliance and safety of the COS areas shall be the responsibility of the builder, and carefully inspected and certified at the Occupation Certificate (OC) stage of the development

Maintenance of COS area

Communal Open Space terrace and roofton areas are exposed to extremes (wind, sun, and extreme weather) so maintenance is important. The following item should be included or considered

- All planters shall be structurally water-proofed, with this work certified and periodically inspected. Trades should be closely nonitored so they do not subsequently damage completed
- All planters shall be irrigated with an automated system set on an approved watering pattern. Moisture gauges should be installed in some planters to minimize overwatering
- **Tree Anchors** shall be installed in high wind areas to larger plants such as palms & small trees
- Compliance for balustrades and handrails should be monitored regularly
- For the maintenance of large rooftop areas and planters without external balustrades, **anchoring points for tying off harnesses** for landscape maintenance workers are essential



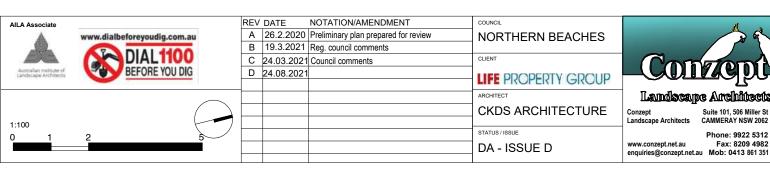
General Notes:

vary slightly in Scale for that indicated on plans. Report any discrepancies to the Landscapi proceeding with the work.

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all agreed payments are made in full. We retain the right to withdraw this information from the assessment occess if such payments are not made following the notification period.



Landscape Architects Suite 101, 506 Miller St

Phone: 9922 5312

- 2 R.'Oriental Pearl'

- 0.5m² C. 'Aussie Rambler'

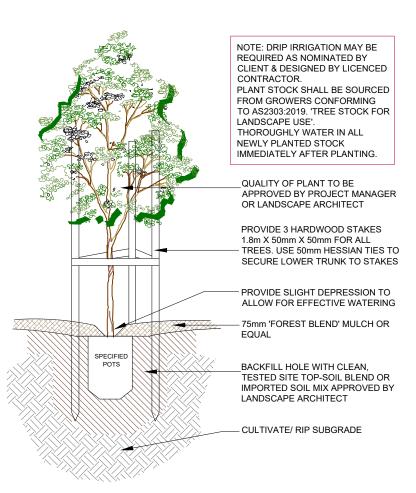
LANDSCAPE PLAN -LEVEL 3

PROPOSED RESIDENTIAL **DEVELOPMENT**

50 LAWRENCE STREET FRESHWATER

LPDA 20 - 190 / 4 1:100 @ A3 AUGUST 2021

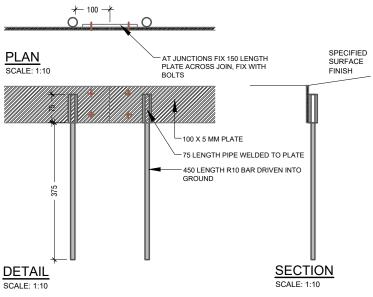
R.F E.W



TREE PLANTING DETAIL

SCALE: NTS

(ONLY APPLICABLE FOR PLANTING AREA OUTSIDE TREE PROTECTION ZONE OF TREES TO BE RETAINED. NO CHANGES ARE TO OCCUR TO EXISTING LEVELS, INCLUDING RIPPING/CULTIVATING OF THE SOIL WITHIN THE TPZ OF TREES TO BE



OVERFLOW (TO SUPPLIER'S SPECIFICATION)

COMPLIANCE.

NOTE (BCA COMPLIANCE). WHERE NO EXTERNAL BALUSTRADE IS PROPOSED. THE INTERNAL PLANTER WALL FACE MUST BE NON-CLIMBABLE TO A HEIGHT TO MEET AS & BCA

NOTE.(DRAINAGE & WATER PROOFING).

DRAINAGE PITS AND LAYOUT TO BE NOMINATED BY HYDRAULIC ENGINEER TO WORK WITH STRUCTURAL DESIGN AND LANDSCAPE.

THE WATERPROOFING, APPROVED DRAINAGE CELL AND SPECIFIED GEOFABRIC LAYER IN THIS DETAIL ARE INDICATIVE ONLY AND SHOULD BE DETAILED BY THE RELEVANT PROFESSIONAL ENGINEER 'FOR CONSTRUCTION'

UNDER THE CONSTRUCTION PRACTITIONER BILL, STRUCTURAL WATER-PROOFING SHALL BE DOCUMENTED BY A HYDRAULIC ENGINEER

TREE AS SPECIFIED

15x15mm ROUTING

LOCAL AUTHORITY

REQUIREMENTS.

45 DEGREE CHAMFER

TIMBER TREE GUARD. REFER

50mm WIDE HESSIAN WEBBING

REFER TO SPECIFICATION FOR NO.

HARDWOOD TIMBER STAKES.

& SIZE DRIVE SECURELY INTO

GROUND AND AVOID ROOT BALL

REFER TO TURF WITH CONCRETE

STAPLED TO EACH POST

KERB DETAIL MULCH AS SPECIFIED

SPECIFICATION

SOIL MIX TYPE A - REFER

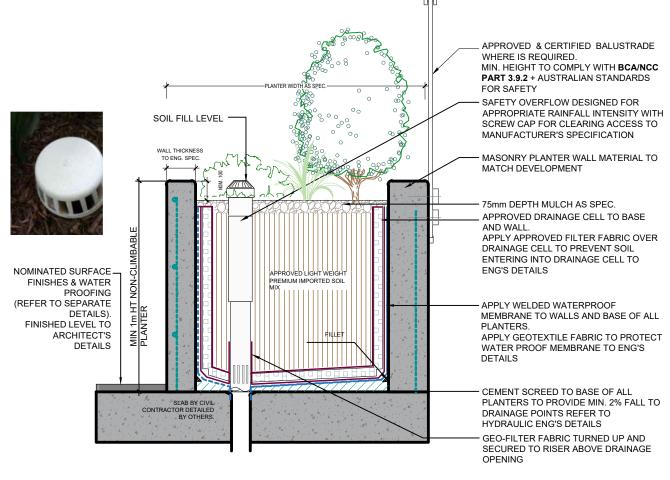
TYPE B WITH 1.5kg/cu.m.

LIGHTLY COMPACTED SOIL MIX

TERRACOTTEM SOIL CONDITIONER

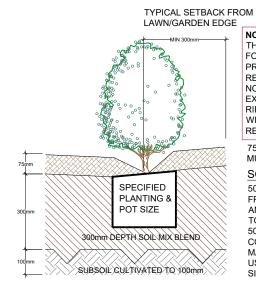
60mm DIA. IRRIGATION PIPE WITH

RIP SUBGRADE TO 100mm DEPTH



BALCONY PLANTER DETAIL

SCALE: 1:15



THIS DETAIL IS ONLY APPLICABLE FOR PLANTING AREA OUTSIDE TREE PROTECTION ZONE OF TREES TO BE RETAINED

NO CHANGES ARE TO OCCUR TO EXISTING LEVELS, INCLUDING RIPPING/CULTIVATING OF THE SOIL WITHIN THE TPZ OF TREES TO BE RETAINED ON SITE

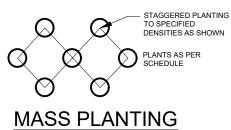
75mm DEPTH "FOREST BLEND" MULCH OR EQUIVALENT

SOIL MIX:

50% OF STOCKPILED SITE TOPSOIL FREE FROM ALL BUILDER'S RUBBISH AND DELETERIOUS MATERIALS. TOPSOIL TO BE MIXED WITH MINIMUM 50% IMPORTED GARDEN MIX OR SOIL CONDITIONER/ COMPOSTED ORGANIC MATTER - SEE SPEC. USE 100% IMPORTED SOIL MIX WHEN SITE TOPSOIL RUNS OUT.

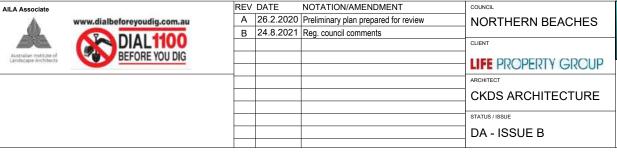
TYPICAL GARDEN PREPARATION DETAIL

STEEL EDGE DETAIL



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— NOM. 1500 ——

STREET TREE GUARD DETAIL



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Fax: 8209 4982

LANDSCAPE PLAN

PROPOSED RESIDENTIAL DEVELOPMENT

50 LAWRENCE STREET FRESHWATER

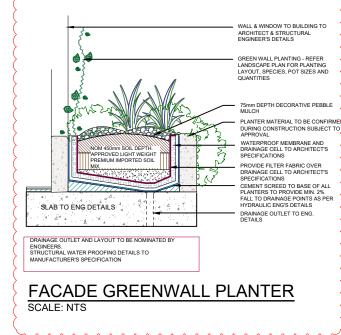
AS SHOWN @ A3

LPDA 20 - 190 / 5

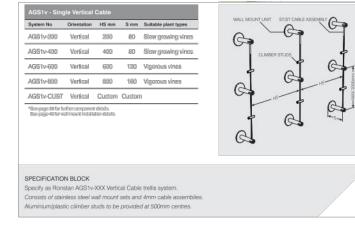
AUGUST 2021

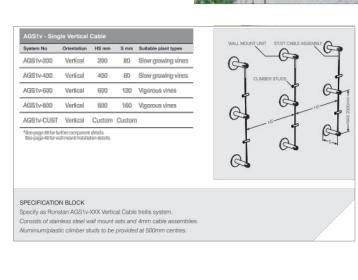
E.W/K.Z R.F





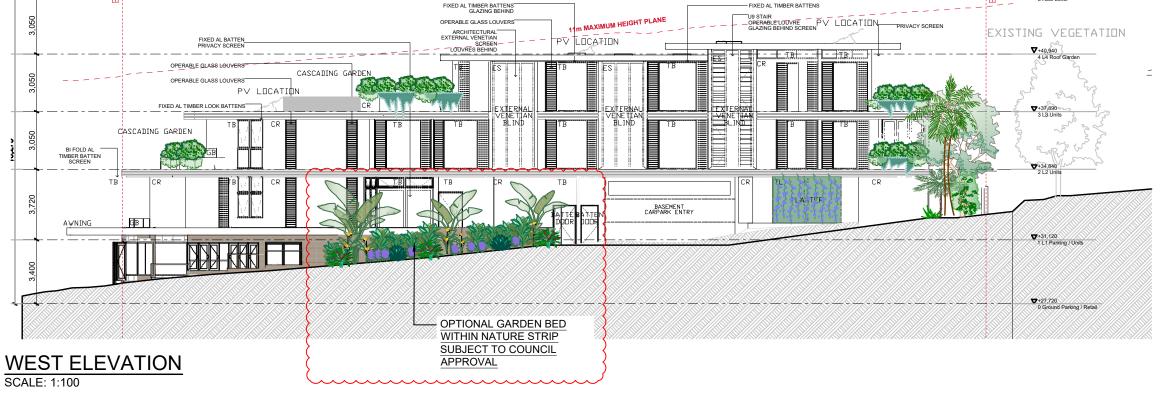






LANDSCAPE GREEN WALL

RONSTAN CABLE TRELLIS SYSTEMS (INDICATIVE ONLY. REFER TO MANUFACTURER'S SPECIFICATION OR SIMILAR PRODUCT



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AILA Associate

DIAL 1100 BEFORE YOU DIG

A 26.2.2020 Preliminary plan prepared for review **NORTHERN BEACHES** B 24.8.2021 Revised Elevation CKDS ARCHITECTURE STATUS / ISSUE DA - ISSUE B

REV DATE NOTATION/AMENDMENT

Lamdscape Architects Suite 101, 506 Miller St

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SECTIONS

Phone: 9922 5312

PROPOSED RESIDENTIAL **DEVELOPMENT**

> **50 LAWRENCE STREET FRESHWATER**

LPDA 20 - 190 / 6 AS SHOWN @ A3

E.W

AUGUST 2021 CHECKED:

R.F

LANDSCAPE WORK SPECIFICATION

PRELIMINARIES

The following general conditions should be considered prior to the commencement of landscape works

- The landscape plans should be read in conjunction with the architectural plans, hydraulic plans, service plans and survey prepared for
- All services including existing drainage should be accurately located prior to the commencement of landscape installation. Any proposed tree planting which falls close to services will be relocated on site under the instruction of the landscape architect.
- . Installation of conduit for required irrigation, electrical and other services shall be completed prior to the commencement of hardscape works and hardstand pours
- All outdoor lighting specified by architect or client to be installed by qualified electrician
- Anomalies that occur in these plans should be brought to our immediate attention.
 Where an Australian Standard applies for any landscape material testing or installation technique, that standard shall be follow

1.02 PROTECTION OF ADJACENT FINISHES

The Contractor shall take all precautions to prevent damage to all or any adjacent finishes by providing adequate protection to these areas / surfaces prior to the commencement of the Works

1.03 PROTECTION OF EXISTING TREES

Existing trees identified to be retained shall be done so in accordance with AS 4970-2009 Protection of trees on development sites as well as in accordance with the tree protection measures prepared by project arborist.

Where general works are occurring around such trees, or pruning is required, a qualified Arborist shall be engaged to oversee such works and manage tree health.

Existing trees designated on the drawing for retention shall be protected at all times during the construction period. Any soil within the drip-line of existing trees shall be excavated and removed by hand only. No stockpiling shall occur within the root zone of existing trees to be retained.

Any roots larger in diameter than 50mm shall only be severed under instruction by a qualified arborist. Roots smaller than 50mm diamete shall be cut cleanly with a saw.

Temporary fencing shall be installed around the base of all trees to be retained prior to the commencement of landscape works. Where possible this fencing will be located around the drip line of these trees, or a minimum of 3m from the trunk. The fencing shall be maintained for the full construction period.

1.04 EROSION & POLLUTION CONTROL

The Contractor shall take all proper precautions to prevent the erosion of soil from the subject site. The contractor shall install erosion & sediment control barriers and as required by council, and maintain these barriers throughout the construction period. Note that the sediment control measures adopted should reflect the soil type and erosion characteristics of the site.

- Erosion & pollution control measures shall incorporate the following: Construction of a sediment trap at the vehicle access point to the subject site.
- Sediment fencing using a geotextile filter fabric in the location indicated on the erosion control plan or as instructed on site by the
- Earth banks to prevent scour of stockpiles
- Sandbag kerb sediment traps
- Straw bale & geotextile sediment filter
- Exposed banks shall be pegged with an approved Jute matting in preparation for mass planting

Refer to 'Guidelines for Erosion and Sediment Control on Building Sites' by DLWC (2000) for construction techniques

SOIL WORKS

Specified Soil Conditioner (Generally to improve site soil)
The specified soil conditioner for site top-soil improvement shall be an organic mix complies with AS 4454-2012 Composts, soil conditioners and mulches. Note that for sites where soil testing indicates toxins or extremes in pH, or soils that are extremely poor, allow to excavate and supply 300mm of imported soil mix.

New gardens & proposed Planting
New garden and planting areas shall consist of a 50/50 mix of clean site soil (refer d) below) and imported soil. All mixes are to comply with AS4419-2003 Soils for Landscaping and garden use, & AS 4454 Composts, Soil conditioners & mulches.

The specified soil mix for all turf areas shall be a min 75mm layer of imported soil mix consisting of 80% washed river sand (reasonably coarse), and 20% composted organic matter equivalent to mushroom compost or soil conditioner, or other approved lawn top dress.

Site Topsoi

Site topsoil is to be clean and free of unwanted matter such as gravel, clay lumps, grass, weeds, tree roots, sticks, rubbish and plastics, and any deleterious materials and materials toxic to plants. The topsoil must have a pH of between 5.5 and 7. Use 100% imported soil mix when site when site topsoil runs out.

2.02 INSTALLATION

Note: No level changes (Cut or Fill), soil ripping within the Tree Protection Zones of trees to be retained

Testing

All testing is to be conducted in accordance with AS4419-2003 Soils for Landscaping and garden use Methods for testing soils for engineering purposes. Site soil shall be given a pH test prior to modifying to ensure conditions are appropriate for planting as stated above. Tests shall be taken in several areas where planting is proposed, and the pH shall be adjusted accordingly with sulphur or lime to suit.

Note that a soil test conducted by the Sydney Environmental & Soil Laboratory or approved equal shall be prepared for all commercial. industrial and multi-unit residential sites. The successful landscape contractor shall implement the recommendations of this test

Set Out of Individual Trees & Mass Planting Areas

All individual tree planting positions and areas designated for mass planting shall be set out with stakes or another form of marking, ready for inspection and approval. Locate all services.

c) Establishing Subgrade Levels

Subgrade levels are defined as the finished base levels prior to the placement of the specified material (i.e. soil conditioner). The following

. Mass Planting Beds - 300mm below existing levels with specified imported soil mix

Turf areas - 100mm below finished surface level

Note that all subgrades shall consist of a relatively free draining natural material, consisting of site topsoil placed previously by the Civil Contractor. No builders waste material shall be acceptable.

Cultivate all subgrades to a minimum depth of 100mm in all planting beds and all turf areas, ensuring a thorough breakup of the subgrade into a reasonably coarse tilth. Grade subgrades to provide falls to surface and subsurface drains, prior to the placement of the final specified soil

e) Drainage Works
Install surface and subsurface drainage where required and as detailed on the drawing. Drain subsurface drains to outlets provided, with a minimum fall of 1:100 to outlets and / or service pits.

Placement and Preparation of Specified Soil Conditioner & Mixes.

- Trees in turf & beds Holes shall be twice as wide as root ball and minimum 100mm deeper backfill hole with 50/50 mix of clean site soil and imported "Organic Garden Mix" as supplied by ANL or approved equa
- Mass Planting Beds Install specified soil conditioner to a compacted depth of 100mm

Place the specified soil conditioner to the required compacted depth and use a rotary hoe to thoroughly mix the conditioner into the top 300mm of garden bed soil. Ensure thorough mixing and the preparation of a reasonably fine tilth and good growing medium in preparation for planting.

Turf Areas - Install specified soil mix to a minimum compacted depth of 75mm.

Place the specified soil mix to the required compacted depth and grade to required finished soil levels, in preparation for planting and turfing.

PLANTING

Quality and Size of Plant Material

All trees supplied above a 25L container size must be grown and planted in accordance with AS 2303:2019

Tree stock for landsca, use. Certification that trees have been grown to AS2303:2018 guidelines is to be provided upon request of Council's Tree Management

Plant true to type, Good vigour and health, free from pest & disease, free from injury, self-supporting, good stem taper, has been pruned correctly, is apically dominant, has even crown symmetry, free from included bark & stem junctions, even trunk position in pot, good stem structure

Below - Ground Assessment:

Good root division & direction, rootball occupancy, rootball depth, height of crown, non-suckering For further explanation and description of these assessment criteria, refer to AS2303:2019.

All Plant material shall be to the type and size specified. No substitutions of plant material shall be permitted without written prior approval by the Landscape Architect. No plant shall be accepted which does not conform to the standards listed above.

Provide min. 3 No. Stakes and ties to all plants identified as trees in the plant schedule. Stakes shall be sound, unpainted, straight hardwood, free of knots and pointed at one end. They shall be 2200mm x 50mm x 50mm Hardwood, or approved alternative. Ties shall be 50mm wide hessian webbing material.

Fertilisers shall be approved slow release fertilisers suitable for the proposed planting types. Note that for native plants, specifically Proteaceae family plants including Grevillea species, low phosphorus fertilizers shall be used.

d) Mulch
Mulch shall be an approved equal to "Forest Blend" as supplied by ANL. Mulch shall be completely free from any soil, weeds, rubbish or other

Turf shall be soft leaf Buffalo or equivalent (unless stated otherwise), free from any weeds and other grasses, and be in a healthy growing

3.02 INSTALLATION

Setting Out

All planting set out shall be in strict accordance with the drawings, or as directed. Note that proposed tree planting located near services should be adjusted at this stage. Notify Landscape Architect for inspection for approval prior to planting.

b) Planting
All plant material shall be planted as soon after delivery as possible. Planting holes for trees shall be excavated as detailed and specified. Plant containers shall be removed and discarded, and the outer roots gently teased from the soil mass. Immediately set plant in hole and backfill with specified soil mix, incorporating the approved quantity of fertiliser for each plant type. Ensure that plants are set plumb vertically and root balls set to the consolidated finished grades detailed on the drawings. Compact the backfilled soil and saturate by hand watering to expel any remaining air pockets immediately after planting.

c) Staking and Tying
Staking and tying shall be in strict accordance with the drawings and shall occur immediately following plant placement and soil backfilling. All plants identified as "Trees" on the planting schedule shall be staked with a min. 3 stakes.

Mulch for general planter bed shall be an approved equal to "Forest Blend" as supplied by ANL. Mulch shall be completely free from any soil, weeds, rubbish or other debris. Mulch for bio-retention/rain garden area where is required shall be non-floatable materials that could include crushed rock, gravel, coarse river sand, scoria or river pebbles. 4-7mm screenings or similar.

Moisten soil prior to the turf being laid. Turf shall be neatly butt jointed and true to grade to finish flush with adjacent surfaces. Incorporate a lawn fertilizer and thoroughly water in. Keep turf moist until roots have taken and sods/rolls cannot be lifted. Keep all traffic off turf until this has occurred. Allow for top dressing of all turf areas. All turf shall be rolled immediately following installation.

Garden edging

Where is required, the Contractor shall install steel edging as detailed on the drawings, to all mass planting beds adjoining turf or gravel mulched areas, and where required. The resultant edge shall be true to line and flush with adjacent surfaces. However, no edging shall be used within the Structural Root Zone (SRZ) of trees to be retained.

g) Nature Strip and public domain works
The nature strip (street frontage) for the site is public land, and only authorized works may occur here.

REV DATE

Existing Conditions such as street trees, council planting etc shall be retained and protected during construction, unless specific approval has been granted for new work in this area. Where council policy specifies a particular unit paver, material finish, pattern or treatment, it shall be the contractors responsibility to check and verify that this material & treatment is correct and current prior to undertaking construction works'

NOTATION/AMENDMENT

HARDSCAPE WORKS

4.01 GENERAL

The Contractor shall undertake the installation of all hardscape works as detailed on the drawing, or where not detailed, by manufacturers

Paving - refer to typical details provided, and applicable Australian Standards. Permeable paving may be used as a suitable means of satisfying Council permeable surface requirements, while providing a useable, hardwearing, practical surface. In most instances, the client

Australian Standards shall be adhered to in relation to all concrete, masonry & metal work. Some details are typical and may vary on site. All hardscape works shall be setout as per the drawings, and inspected and approved by the Landscape Architect prior to installation. All workmanship shall be of the highest standard. Any queries or problems that arise from hardscape variations should be bought to the attention of the Landscape Architect.

Your attention is directed to any obligations or responsibilities under the Dividing Fences Act, 1991 in respect of adjoining property owner/s which may arise from this application. Any enquiries in this regard may be made to the Crown Lands on 1300 886 235.

5.01 GENERAL (PERFORMANCE SPECIFICATION)

This is a general Irrigation Performance Specification only, as a guide for projects requiring irrigation systems as part of consent requirements or

building contractual arrangements.

An automated irrigation system is recommended for the effective establishment of new gardens, and to assist with the success of planting areas on terraces, over slabs and in Communal Open Spaces

The inclusion of this general specification is no guarantee that an irrigation system forms part of the landscape scope of works, which will be determined by the building contract.

New irrigation systems to planting areas shall be a Commercial Grade Irrigation System conforming to all relevant Australian standards, including AS 3500 & the Gas and Electricity (Consumer Safety) Act 2017, Workplace Health & Safety Act 2011, & the latest Sydney Water Code An automated drip-irrigation system is to be installed to all gardens, planters and lawn areas in accordance with the approved Irrigation Design.

This system shall be designed and installed by a qualified and licensed irrigation specialist, to the highest industry standards and to maximise the

efficient usage of water. The Installer is required to obtain all approvals necessary for the completion of works in accordance with the Laws of Australia, Laws of the State of NSW, Northern Beaches Council By-Laws and Ordinances.

<u>Drawings:</u>
- The Landscape Contractor nominated Licensed Irrigation Specialist shall provide irrigation drawings for approval upon engagement.

Design Requirements:

The irrigation system shall be installed prior to all planting works. It shall incorporate a commercially available irrigation system, with

It shall incorporate a suitable back flow prevention device for the scale of works, an in-line filter, check valves, and suitable high and low density poly hose fittings and PVC piping to achieve flow rates suitable for specified planting.

The irrigation application rate shall not exceed the infiltration rate of the soil or creates run-off

The landscape contractor shall check the existing pressure available from the ring mains and size irrigation piping to suit. Supply shall be

All piping and fittings shall be buried 50mm below the finished soil levels in garden and lawn areas, and secured in position at 500mm

centres with galv wire pins Size of pipes shall be selected to ensure the working pressure at the end of the line does not decrease by more than 5%

Services Co-ordination:
- Co-ordination required by Landscape Contractor or Project Manager to provide required conduit, pipe work and penetration through sla and planter walls for water and power provisions

The Landscape Contractor shall be engaged with the Irrigation Specialist to co-ordinate with the Project Manager to identify the preferred

Project Manager and Landscape Contractor to establish area suitable for irrigation control system with required area, power provision and

- Testing & Defects:
 Upon completion of installation, the system shall be tested, including:
 Main Line Pressure Test: The main line is pressurised to test for leaks. All valves are shut and the pressure is taken over a deter-
- Dripper Pressure Test: Measurement at flushing valves are taken and the pressure gauged to make sure it conforms to the manufacturer recommendations. The inlet pressure is then tested under the same conditions to check it does not exceed 300Kpa. All components are to be satisfactorily functional and operational prior to approval. Should any defect develop, or the capacity or efficiency
 of the system decline during the agreed maintenance system, then these faults shall be immediately rectified.

Warranty :
A full 12 month warranty shall be included to cover labour and all parts.

Further Documentation:
On request, a detailed irrigation performance specification report can be issued.

CONSOLIDATION AND MAINTENANCE

6.01 GENERAL

The consolidation and maintenance period shall be eithe

- 6 months beginning from the approved completion of the specified construction work (Practical Completion) as agreed to in the landscape contractors contractual obligations.
- or as specified by Council in the Determination.

A qualified landscape maintenance contractor shall undertake the required landscape maintenance works. Consolidation and maintenance shall mean the care and maintenance of Contracted works by accepted landscaping or horticultural practices, ensuring that all plants are in optimum growing conditions and appearance at all times, as well as rectifying any defects that become apparent in the contracted works.

This shall include, but not be limited to, the following items where and as required

- Watering all planting and lawn areas / irrigation maintenance. Clearing litter and other debris from landscaped areas.
- Removing weeds, pruning and general plant maintenance.
- Replacement of damaged, stolen or unhealthy plants.

 Make good areas of soil subsidence or erosion.
- Topping up of mulched areas.
- Spray / treatment for Insect and disease control.
 Fertilizing with approved fertilizers at correct rates
- Mowing lawns & trimming edges each 14 days in summer or 18 days in winter

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Adjusting ties to Stakes

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Maintenance of all paving, retaining and hardscape elements.

On the completion of the maintenance period, the landscape works shall be inspected and at the satisfaction of the superintendent or landscape architect, the responsibility will be signed over to the client.

General Notes:

y way slightly in Scale for that indicated on plans. Report any discrepancies to the Landscape thitect before proceeding with the work. Copyright Sulphurcrest Enterprises Pty Ltd Trading as CONZEPT

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AILA Associate



A 26.2.2020 Preliminary plan prepared for review NORTHERN BEACHES LIFE PROPERTY GROUP CKDS ARCHITECTURE

DA - ISSUE A

Lamdscape Architects Suite 101. 506 Miller St CAMMERAY NSW 2062

PROPOSED RESIDENTIAL DEVELOPMENT

SPECIFICATIONS

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LPDA 20 - 190 / 7 AUGUST 2021

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