# LEGEND & SCHEDULE

1. 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

6.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 NEW WORK IN

**TREES** 

Botanical Name: Cupaniopsis anacardioides Common Name: Tuckeroo (Native) Pot size: **Mature H x S:** 8-10m x 3-5m **Qty Required:** 

# ACCENT PLANTS

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

# **GRASSES + GROUNDCOVERS**

Qty Required:

Botanical Name: Lomandra longifollia 'Tanika' Pot size:

Common Name: Dwarf Mat Rush (Native) 200mm **Mature H x S:** 0.8m x 0.8m Qty Required: 44 Botanical Name: Themeda australis 'Mingo'

Common Name: Dwarf Kangaroo Grass (Native) Pot size: **Mature H x S:** 0.2m x .6m Qty Required: 5/m2 (27.4m2 total)

**EXISTING VEGETATION** Trees proposed to be removed and



replaced with new landscaping

— — Timber edging - refer detail

— — Steel edging - refer detail

Nature strip area - refer detail

Timber decking - refer detail

- style & color to be nom. by client Concrete pedestrian path - to be

# LANDSCAPE PLAN NOTES

This plan should be read in conjunction with the architectural and hydraulics plans. Work specific to these plans should be prepared prior to the installation of landscaping, and should not be altered or

construction.

This plan has been prepared with reference to NORTHERN **BEACHES Councils** Landscaping Guidelines & requirements. Planting proposed using 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

The Design & location of new letter boxes shall be in accordance with Australia Post's "Requirements for Delivery of Mail to 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 maintained for

constructed as drawn on this plan.

Existing trees proposed to be retained and protected

# MATERIAL FINISHES

Pedestrian path paving type I - style & color to be nom. by client

> Courtyard feature paving type II constructed in accordance to council's

specification Retaining / raised planter wall - refer detail

Existing concrete kerb & gutter

in accordance to these plans, including specification and details compromised during landscape construction. Retaining wall details to engineers design.

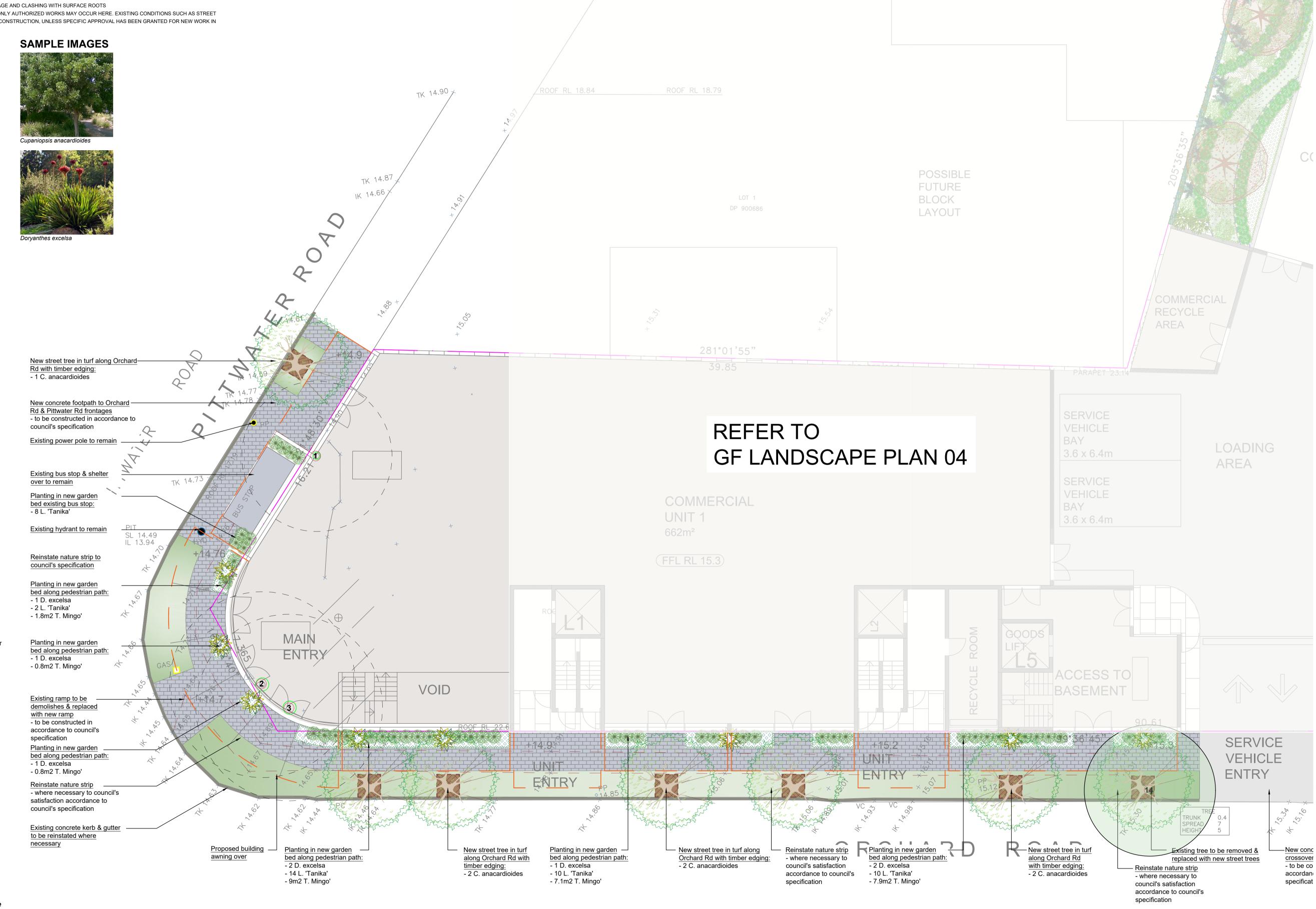
Elements such as drainage swales may be incorporated in garden bed areas (using non-floatable mulch) without compromising the capacity or form.

This plan has been prepared for DA approval only, not for

native plants (acceptable for Basix planting).

Residential Premises" published Feb '97. All noxious weeds listed 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



GENERAL NOTE: site. PDFd plans may vary slightly in Scale for that indicated on plans. Report any discrepancies to the Landscape Architect before proceeding with the work.

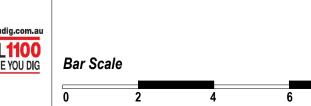
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This drawing is protected by copyright. All rights are reserved. Unless permitted
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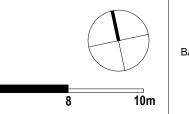
If the Status of this drawing is not signed off For Construction it may be subject the notification period.

until such time as all agreed payments are made in full. We retain the right to withdraw this information from the assessment process if such payments are not made following

AILA Associate











	COUNCIL	REV	DATE	NOTATION/AMENDMENT
treet,	NORTHERN BEACHES	Α	06.08.18	Preliminary DA prepared for review
162		В	16.08.18	Co-ordinated with architect's comments & green wall added
		С	21.08.18	Non-draft plan issued
	CLIENT	D	04.09.18	Co-ordinated with arborists report
	ANTHONY CHIRILLO			
t.au				

PUBLIC DOMAIN PLAN 01 PROPOSED RESIDENTIAL DEVELOPMENT APPLICATION DEVELOPMENT SEPTEMBER 2018 1:100 @ A1 638 PITTWATER RD PAGE NUMBER: **BROOKVALE** R.F LPDA 19 - 36 Y.Y

# **LEGEND & SCHEDULE**

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5. ALL PLANTING AROUND EXISTING TREES SHALL BE ADJUSTED TO AVOID DAMAGE AND CLASHING WITH SURFACE ROOTS

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# **TREES**

**Botanical Name:** Cupaniopsis anacardioides Common Name: Tuckeroo (Native) Pot size:

**Mature H x S:** 8-10m x 3-5m Qty Required:

# ACCENT PLANTS



**Botanical Name:** Doryanthes excelsa Common Name: Gymea Lily (Native) **Mature H x S:** 1.1m x 1m Qty Required: 3

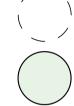
# **GRASSES + GROUNDCOVERS**



Botanical Name: Lomandra longifollia 'Tanika' Common Name: Dwarf Mat Rush (Native) **Mature H x S:** 0.8m x 0.8m Qty Required: 18



Botanical Name: Themeda australis 'Mingo' Common Name: Dwarf Kangaroo Grass (Native) **Mature H x S:** 0.2m x .6m Qty Required: 5/m2 (13.9m2 total)



Existing trees proposed to be retained

— — Steel edging - refer detail

Courtyard feature paving type II - style & color to be nom. by client

constructed in accordance to council's specification

Retaining / raised planter wall - refer detail

# **LANDSCAPE PLAN NOTES**

prior to the installation of landscaping, and should not be altered or

# construction.

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 maintained for the duration of the construction period. Proposed excavation near

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.

Lomandra longifollia 'Tanika'



**SAMPLE IMAGES** 

# **EXISTING VEGETATION**

## Trees proposed to be removed and replaced with new landscaping

# and protected

# MATERIAL FINISHES

— — Timber edging - refer detail

Nature strip area - refer detail

Timber decking - refer detail

Pedestrian path paving type I - style & color to be nom. by client

Concrete pedestrian path - to be

Existing concrete kerb & gutter

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 compromised during landscape construction. Retaining wall details to engineers design.

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 DA approval only, not for

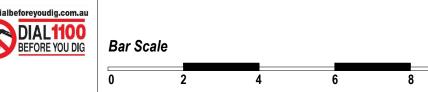
This plan has been prepared with reference to **NORTHERN BEACHES Councils** Landscaping Guidelines & requirements. Planting proposed using commercially available plant species selected from local planting lists and the BASIX local plant list and from Sydney Waters "Plant Selector" web site one-drip rated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

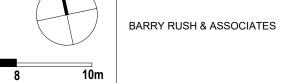
existing established trees to be supervised by arborist.

Figured dimensions take preference to scale readings. Verify all dimensions on site. PDF'd plans may vary slightly in Scale for that indicated on plans. Report any whether special, consequential, direct or indirect, suffered by © Copyright R. L Frew Landscape Architectural Services T/A CONZEPT for construction purposes. This drawing is protected by copyright. All rights are reserved. Unless permitted under the Copyright Act 1968, no part of this drawing may in any form or by any unit such time as all agreed payments are made in full. We retain the right to withdraw this information from the









Reinstate nature strip

- where necessary to

council's satisfaction

specification

accordance to council's

3.6 x 6.4m

3.6 x 6.4m

ACCESS TO

REFER TO PUBLIC

DOMAIN PLAN 01

- New street tree in turf

along Orchard Rd

with timber edging:

- 2 C. anacardioides



SERVICE

VEHICLE

replaced with new street trees

LOADING

AREA

	Suit 101, 506 Miller Street, CAMMERAY NSW 2062	
	Phone: 9922 5312 Fax: 8209 4982 Mob: 0413 861 351	
5 3	www.conzept.net.au enquiries@conzept.net.au	

-New concrete vehicular

crossover & driveway

- to be constructed in

specification

accordance to council's

Suit 101, 506 Miller Street, CAMMERAY NSW 2062	NORTHERN
Phone: 9922 5312 Fax: 8209 4982 Mob: 0413 861 351	CLIENT
www.conzept.net.au enquiries@conzept.net.au	ANTHONY C

Planting in new garden

2 D. excelsa

- 10 L. 'Tanika'

- 7.8m2 T. Mingo'

bed along pedestrian path:

THERN BEACHES	A 06.08.18 Preliminary DA prepared for review		PI		
	В	16.08.18	Co-ordinated with architect's comments & green wall added		
	С	21.08.18	Non-draft plan issued	DI	
IT	D	04.09.18	Co-ordinated with arborists report		
HONY CHIRILLO				63	
				RI	
				וט	

ENTRY

—New street tree in turf

- 2 C. anacardioides

timber edging:

NOTATION/AMENDMENT

along Orchard Rd with

+15.47

—New concrete footpath to

- to be constructed in

accordance to council's

frontages

specification

Orchard Rd & Pittwater Rd

SOHO UNIT 8

SOHO UNIT 7

SOHO UNIT 6

SOHO UNIT 2

COMMERCIIAL

UNIT 2

GF LANDSCAPE PLAN 03-04

REFER TO

COURT

ROPOSED RESIDENTIAL	PUBLIC DOMAIN PLAN		
EVELOPMENT			
B PITTWATER RD	DWG.No:	PAGE NUMBER:	
ROOKVALE	LPDA 19 - 36	2	

SOHO UNIT 1 UNIT 3

SOHO UNIT 3

RAMP TO

BASEMENT

FIRE EXITE CARE

ROOM

FFL RL 15.3 UNIT ENTRY

Proposed building awning over Existing concrete kerb & gutter to be reinstated where

> Planting in new garden Reinstate nature strip New street tree in turf along Orchard Rd bed along pedestrian path: - 1 D. excelsa with timber edging: - 2 C. anacardioides

- where necessary to R - 8 L. 'Tanika' - 6.1m2 T. Mingo' specification

council's satisfaction accordance to council's

PAR

DEVELOPMENT APPLICATION 1:100 @ A1 SEPTEMBER 2018 R.F Y.Y

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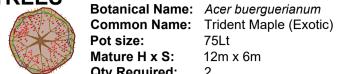
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# **TREES**



Mature H x S: 12m x 6m Qty Required:

Pot size:

**Botanical Name:** Cyathea australis Qty Required:

**Common Name:** Rough Tree Fern (Native) **Mature H x S:** 2.5-5m x 3m

# SHRUBS AND HEDGES

# Botanical Name: Rhaphis excelsa Pot size:

Common Name: Rhaphis Palm (Exotic) 300mm **Mature H x S:** 3m x 1.5m Qty Required:

**Botanical Name:** Zamia furfuracea

Common Name: Cardboard Palm (Exotic)

200mm

300mm

# ACCENT PLANTS

**Mature H x S:** 1m x 1.25m Qty Required: 15 **Botanical Name:** Philodendron 'Xanadu' Common Name: Xanadu Plant (Exotic)

Pot size: **Mature H x S:** 0.7m x 0.7m Qty Required: 55

**Botanical Name:** Cycas revoluta

Common Name: Japanese Sago Palm (Exotic) **Mature H x S:** 0.7m x 1.1m Qty Required:

**GRASSES + GROUNDCOVERS** Botanical Name: Sanseveria trifasciata Common Name: Snake Plant (Exotic) Pot size: **Mature H x S:** 0.8m x 0.5m

Qty Required: 7/m2 (5.8m2 total)

Qty Required: 5/m2 (15.4m2 total) Botanical Name: Liriope muscari 'Just Right' **Common Name:** Liriope Just Right (Exotic) **Mature H x S:** 0.5m x 0.5m

AUTOMATIC IRRIGATION SHALL BE INSTALLED FOR RAISED PLANTER AREA TO ENSURE A SUSTAINABLE LANDSCAPE IS ACHIEVED.SHOP DRAWING TO BE PROVIDED BY LICENSED IRRIGATION CONSULTANTS

# LANDSCAPE PLAN NOTES

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. Retaining wall details to engineers design.

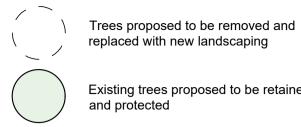
Elements such as drainage swales may be incorporated in garden bed areas (using non-floatable mulch) without compromising the capacity or form.

This plan has been prepared for DA approval only, not for construction.

This plan has been prepared with reference to **NORTHERN BEACHES Councils** Landscaping Guidelines & requirements. Planting proposed using 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).

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# **EXISTING VEGETATION**



### **MATERIAL FINISHES**

Steel edging - refer detail — — Timber edging - refer detail Turf area - refer detail

Timber decking - refer detail Pedestrian path paving type I

Courtyard feature paving type II - style & color to be nom. by client Concrete pedestrian path - to be

Retaining / raised planter wall - refer detail

# SAMPLE IMAGES



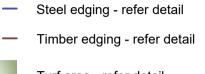








# Existing trees proposed to be retained



style & color to be nom. by client

constructed in accordance to council's specification

Existing concrete kerb & gutter

Vertical green wall to manufacturer's recommended plant list & installation details



















Shade / low heat tolerant:

AREA

Shade tolerant mass

- 5 Cyathea australis

- 5.8m2 L. 'Just Right'

- 15.5m2 S. trisfasciata

- 15 Z. furfuracea

- 2 Acer

- 7 R. excelsa

- 8 C. revoluta - 55 P. 'Xanadu'

Steel edging

- refer to typical detail

Vertical green wall

recommended shade tolerant planting list &

installation details

manufacturer's

planting to court below:

- Adiantum fragrans (Maidenhair Fern)
- Aglaonema 'Silver Queen' (Chinese Evergreen)

COMMERCIAL

RECYCLE

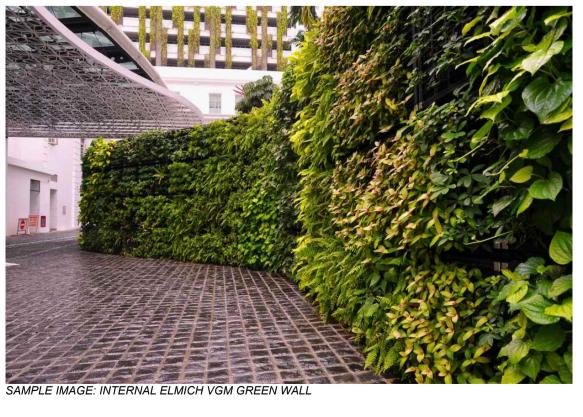
- Asplenium australasicum (Birds Nest Fern)
- Bergonia semperflorens (Wax Bergonia)
- Coleus blumei (Painted Nettle) - Neoregelia carolinae 'Blushing Bromeliad',
- 'Charm' & 'Tricolour' (Bromeliad) - Nephrolepsis exaltata (Boston Sword Fern)

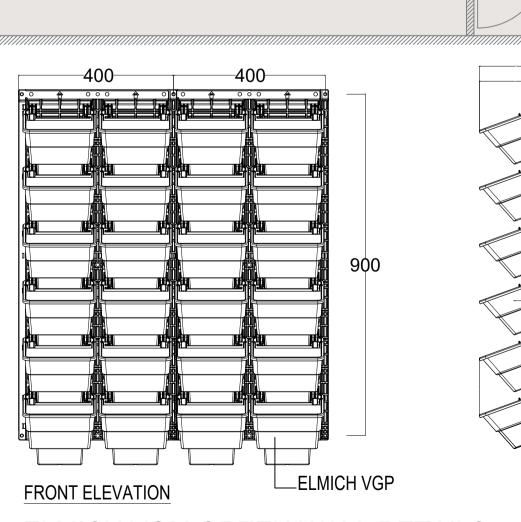
- Sanseveria trifaciata 'Hahnii' (Dwarf Snake Plant)

Plants selected from Elmich recommended plant list for interior green wall system. Final plant species and layout to be nominated by Landscape Architect at Construction Stage



COURT





72m<sup>2</sup>

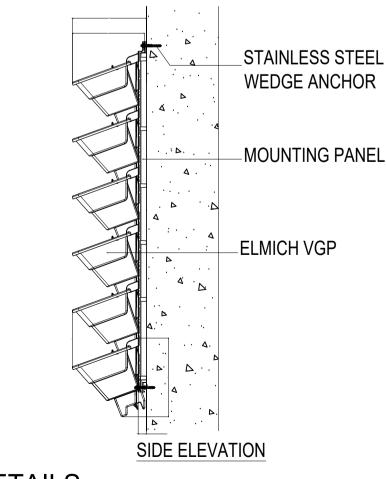
SOHO UNIT 8

SOHO UNIT 7

SOHO UNIT 6

74m<sup>2</sup>

68m<sup>2</sup>



ELMICH VGM GREEN WALL DETAILS SCALE: 1:10

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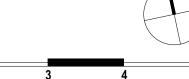
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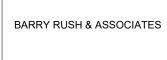
Throad loss and associated ID. ) Copyright N. I. Frew Lamuscape Administration of the Property of the Propert until such time as all agreed payments are made in full. We retain the right to withdraw this information from the













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Phone: 9922 5312 Fax: 8209 4982 Mob: 0413 861 351	
www.conzept.net.au enquiries@conzept.net.au	

COUNCIL	REV DATE NOTATION/AMENDMENT		NOTATION/AMENDMENT
NORTHERN BEACHES	Α	06.08.18	Preliminary DA prepared for review
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CLIENT	D	04.09.18	Co-ordinated with arborists report
ANTHONY CHIRILLO			

CT:	
ROPOSED RESIDENTIAL	
EVELOPMENT	
38 PITTWATER RD	
ROOKVALE	

TITLE:		STATUS:		
GF LANDSCA	APE PLAN 04	DEVELOPMENT APPLICATION		
		SCALE:	DATE:	
		1:50 @ A1	SEPTEMBER 2018	
DWG.No:	PAGE NUMBER:	DRAWN:	CHECKED:	
LPDA 19 - 36	4	Y.Y	R.F	

### LANDSCAPE WORK SPECIFICATION

### **PRELIMINARIES**

# 1.01 GENERAL

### 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 the proposed development. 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

# 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

Existing trees identified to be retained shall be done so in accordance with NATSPEC Guide 2 "A Guide to Assessing Tree Quality". 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

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

1.03 PROTECTION OF EXISTING TREES

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:

stockpiling shall occur within the root zone of existing trees to be retained.

- 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 landscape architect.
- Earth banks to prevent scour of stockpiles
- Straw bale & geotextile sediment filter
- Exposed banks shall be pegged with an approved Jute matting in preparation for mass planting

Refer to "Sitewise Reference Kit" as prepared by DLWC & WSROC (1997) for construction techniques

### SOIL WORKS 2.01 MATERIALS

Specified Soil Conditioner (Generally to improve site soil)

The specified soil conditioner for site top-soil improvement shall be an organic mix, equal to "Botany Humus", as supplied by ANL. 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 "Organic Garden Mix" as supplied by ANL or approved equal. All mixes are to comply with AS 4419 Soils or landscaping & 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 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

All testing is to be conducted in accordance with AS 1289 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 Soil Lab" or approved equal shall be prepared for all commercial, industrial and multi-unit residential sites. The successful landscape contractor shall implemen

# b) 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 subgrade levels shall apply: • 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

d) Subgrade Cultivation 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 mix.

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

# f) 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

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**

# 3.01 MATERIALS

a) Quality and Size of Plant Material All trees supplied above a 25L container size must be grown and planted in accordance with Clarke, R 1996 Purchasing Landscape Trees: A guide to assessing tree quality. Natspec Guide No. 2. Certification that trees have been grown to Natspec guidelines is to be provided upon request of Council's Tree Management

<u>Above - Ground Assessment:</u> The following plant quality assessment criteria should be followed: 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 Ross Clark's book. 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

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 debris

### Turf shall be "Sir Walter" Buffalo or equivalent (unless stated otherwise), free from any weeds and other grasses, and be in a healthy growing condition.

### 3.02 INSTALLATION

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

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.

### 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

Mulch should be spread so that a compacted thickness of 75mm is achieved after settlement in all planting beds and around each individual plant. Apply immediately following planting and watering in, ensuring that a 50mm radius is maintained around the trunk of each plant . There shall be no mixing of soil and mulch

Moisten soil prior to the turf being laid. Turf shall be neatly butt jointed and true to grade to finish flush with adiacent 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.

The Contractor shall install steel/timber 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

### . 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 new work in this area.

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 specification • Paving - refer to typical details provided, and applicable Australian Standards. Permeable paving may be

useable, hardwearing, practical surface. In most instances, the client shall nominate the appropriate 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

used as a suitable means of satisfying Council permeable surface requirements, while providing a

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 Division on (02) 8836 5332.

# IRRIGATION WORKS

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 Electrical Safety Act 2002, Workplace Health & Safety Act 1995. & 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

### ndustry 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 sub-surface dripper lines to irrigate all gardens, planters and lawn areas. 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 from local hose cock where available. 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 slabs 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 service and conduit locations. Project Manager and Landscape Contractor to establish area suitable for irrigation control system with required area, power provision and water supply.

# Testing & Defects:

n 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 determined length of time

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**

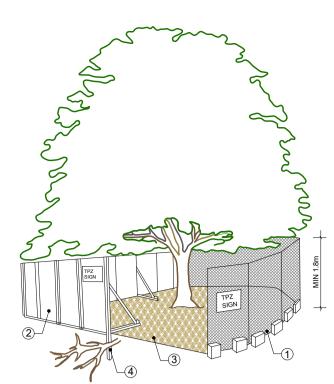
6.01 GENERAL

The consolidation and maintenance period shall be 12 months beginning from the approved completion of the specified construction work (Practical Completion). 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

- 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.
- Replacement of damaged, stolen or unhealthy plants. Make good areas of soil subsidence or erosion. Topping up of mulched areas.
- Fertilizing with approved fertilizers at correct rates. Mowing lawns & trimming edges each 14 days in summer or 18 days in winter Adjusting ties to Stakes

of the superintendent or landscape architect, the responsibility will be signed over to the client.

On the completion of the maintenance period, the landscape works shall be inspected and at the satisfaction



1. CHAIN WIRE MESH PANELS WITH SHADE CLOTH (IF REQUIRED) ATTACHED, HELD IN PLACE WITH CONCRETE FEET

2. ALTERNATIVE PLYWOOD OR WOODEN PALING FENCE PANELS. THE FENCING MATERIAL ALSO PREVENTS **BUILDING MATERIALS OR SOIL** ENTERING THE TPZ

3. MULCH INSTALLATION ACROSS SURFACE OF TPZ (AT THE DISCRETION OF THE PROJECT ARBORIST), NO **EXCAVATION, CONSTRUCTION** ACTIVITY, GRADE CHANGES, SURFACE TREATMENT OR STORAGE OF MATERIALS OF ANY KIND IS PERMITTED WITHIN THE TPZ

4. BRACING IS PERMISSIBLE WITHIN THE TPZ. INSTALLATION OF SUPPORTS TO AVOID DAMAGING ROOTS

PROVIDE FENCING AS DETAILED TO ALL TREES PROPOSED TO BE RETAINED ON THE SUBJECT SITE. FENCING TO BE LOCATED TO THE DRIP LINE OF TREES OR AS INDICATED ON PLANS OR DIRECTED ON-SITE BY ARBORIST. NO STOCKPILING WITHIN FENCE PERIMETERS

# TYPICAL GARDEN PREPARATION DETAIL

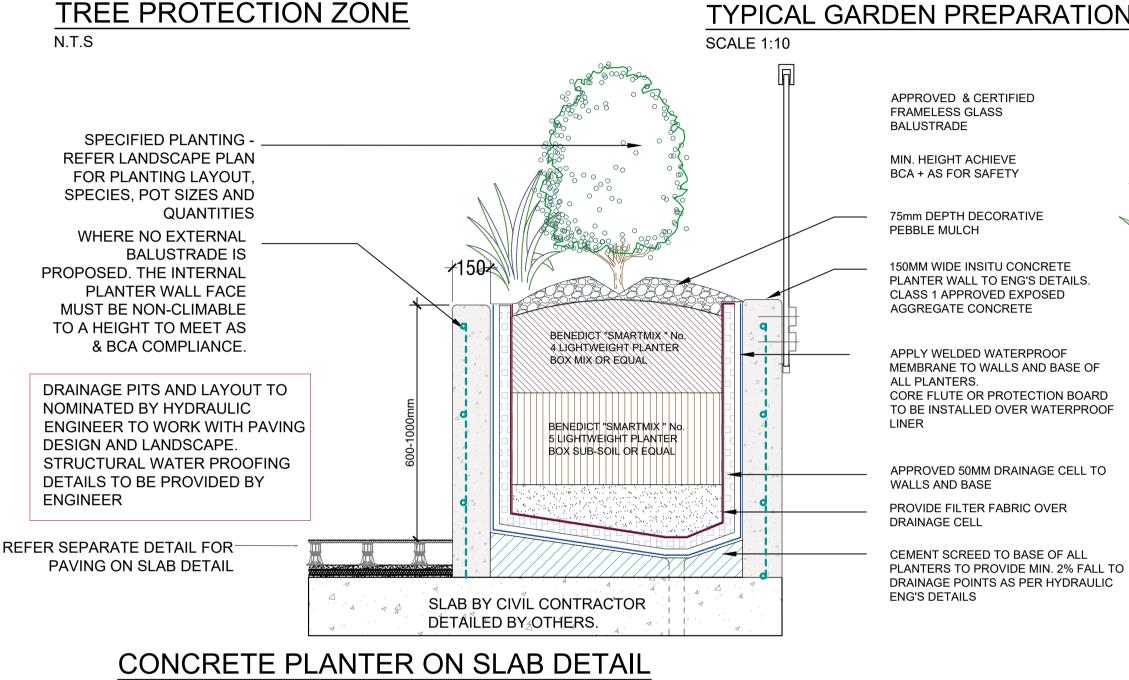
**SPECIFIED** 

POT SIZE

300mm DERTH SOIL MIX BLEND

SUBSOIL CULTIVATED TO 100mm

PLANTING &



TYPICAL SETBACK FROM LAWN/GARDEN EDGE 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.

# TREE PLANTING DETAIL

PLANT STOCK SHALL BE

ROSS CLARKE.

ARCHITECT

- PROVIDE SLIGHT

SOURCED FROM GROWERS

CONFORMING TO NATSPEC.

GUIDE 'SPECIFYING TREES' BY

THOROUGHLY WATER IN ALL

IMMEDIATELY AFTER PLANTING

NEWLY PLANTED STOCK

-QUALITY OF PLANT TO BE

APPROVED BY PROJECT

PROVIDE 3 HARDWOOD

MANAGER OR LANDSCAPE

STAKES 1.8m X 50mm X 50mm

FOR ALL TREES. USE 50mm

HESSIAN TIES TO SECURE

LOWER TRUNK TO STAKES

DEPRESSION TO ALLOW

-75mm 'FOREST BLEND'

-BACKFILL HOLE WITH

CLEAN, TESTED SITE

TOP-SOIL BLEND OR

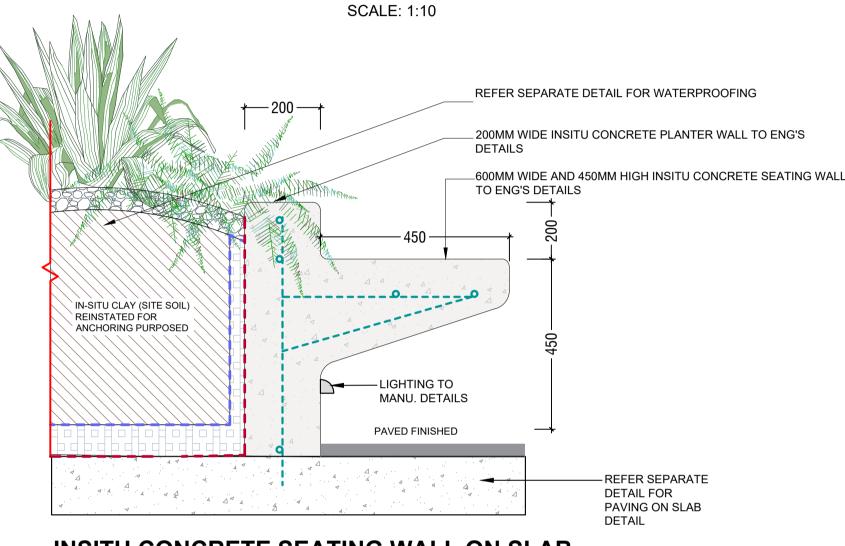
IMPORTED SOIL MIX APPROVED BY LANDSCAPE

-CULTIVATE/ RIP SUBGRADE

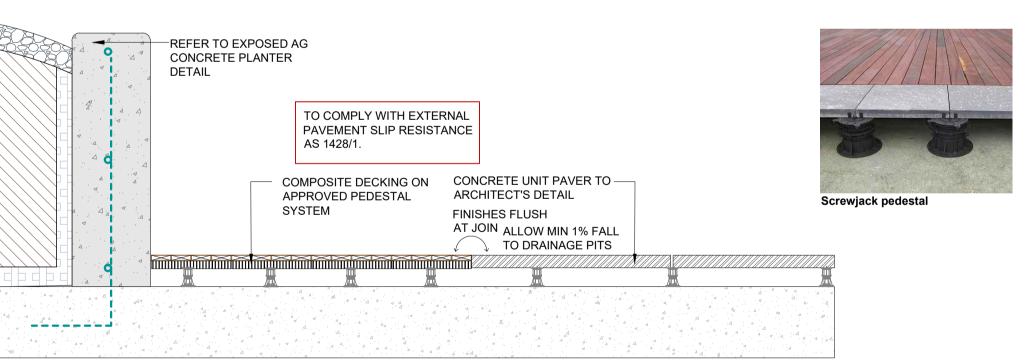
ARCHITECT

MULCH OR EQUAL

FOR EFFECTIVE WATERING



# **INSITU CONCRETE SEATING WALL ON SLAB**



# NOTE: DRIP IRRIGATION MAY BE REQUIRED AS NOMINATED BY CLIENT & DESIGNED BY CONCRETE PEDESTRIAN · WALKWAY

NOTE: TURF AREAS TO

SURROUNDS. ROLL AND

SEE TYPICAL GARDEN

AREA PREPARATION

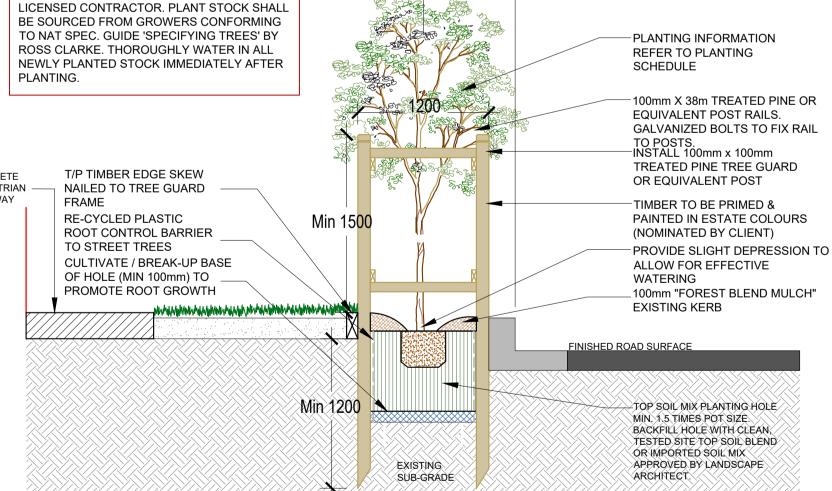
- 100mm AG LINE IN

**BLUE METAL** 

WATER IMMEDIATELY

FINISH FLUSH WITH

AFTER LAYING.



600 from face of kerb to tree

# STREET TREE PLANTING & TREE GUARD DETAIL

# TYPICAL TURFING & TIMBER EDGE approx 1:10

NOTATION/AMENDMENT



100mm DEPTH 80:20 MIX

CULTIVATE SUBSOIL TO 100mm

TURF WITH STEEL EDGE DETAIL

	COUNCIL	REV	DATE
Miller Street.	NORTHERN BEACHES	Α	06.08.18
NSW 2062		В	21.08.18
5312			
82 81 351	CLIENT		
	ANTHONY CHIRILLO		
t.net.au onzept.net.au			

PROPOSED RESIDENTIAL

**SPECIFICATION & DETAIL DEVELOPMENT APPLICATION** AS SHOWN @ A1 SEPTEMBER 2018 R.F Y.Y LPDA 19 - 36

# become apparent in the contracted works.

- Removing weeds, pruning and general plant maintenance.
- Spray / treatment for Insect and disease control.

Maintenance of all paving, retaining and hardscape elements.

# BARRY RUSH & ASSOCIATES

HARDWOOD DECK + PAVING ON SLAB DETAIL

NOTE: TURF AREAS TO FINISH FLUSH

REFER GARDEN PREP DETAIL

-100MM AG LINE IN BLUE METAL

TRENCH TO CONNECT TO SITE

WITH SURROUNDING SURFACE

ROLL AND WATER IMMEDIATELY

AFTER LAYING.

FINISHES (EXCEPT GARDEN BEDS).

Preliminary DA prepared for review Non-draft plan issued

SELECTED T/P TIMBER EDGING WITH-

CULTIVATED

SITE TOP SOIL

PEGS LOCATED TO SUIT

("Sir WALTER" OR SIMILAR)

LAY TURF ON MINIMUM 75mm

80: 20 TOP DRESS SOIL MIX

SAND : ORGANIC MATTER

SOFT LEAF BUFFALO

# DEVELOPMENT 638 PITTWATER RD **BROOKVALE**

# Figured dimensions take preference to scale readings. Verify all dimensions on If so, Conzept is not liable for any loss, damage, harm or ini

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| Alla Associate | Architect | Alla Associate | Alla Assoc

Australian Institute of Landscape Architects

SCALE: NTS

STAINLESS STEEL EDGING PINNED

WITH GARDEN BEDS WHERE THESE

INTO SUBGRADE - MAKE FLUSH

TWO SURFACE FINISHES MEET

SOFT LEAF BUFFALO

"SIR WALTER" OR SIMILAR

SAND : ORGANIC MATTER

LAY TURF ON MINIMUM 100mm

80: 20 TOP DRESS SOIL MIX