## **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.

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

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



Pot size:

Botanical Name: Brachychiton acerifolius Common Name: Illawarra Flame Tree (Native) **Mature H x S:** 16m x 10m

Qty Required:

Botanical Name: Corymbia ficifolia 'Summer Red' Common Name: Dwarf Flowering Gum (Native) Mature H x S: 5m x 3m Qty Required: 4

Botanical Name: Tristaniopsis laurina 'Luscious' Common Name: Watergum (Native) Pot size: **Mature H x S:** 5-8m x 3-5m Qty Required: 3

Botanical Name: Banksia integrifolia Common Name: Coastal Banksia (Native) Pot size: **Mature H x S:** 6-8m x 4-5m

Qty Required: 4 Botanical Name: Waterhousia 'Sweeper' Common Name: Weeping Myrtle (Native) **Mature H x S:** 6-8m x 3-4m

Qty Required: 3 Botanical Name: Cornus florida

Common Name: Flowering Dogwood (Exotic) Pot size: Mature H x S: 9m x 6m Qty Required: 5 Botanical Name: Magnolia 'Little Gem' Common Name: Magnolia Little Gem (Exotic)

Pot size: **Mature H x S:** 4.5m x 1.5-2m Qty Required: 2 Botanical Name: Archontophoenix cunninghamiana Common Name: Bangalow Palm (Native)

Pot size: **Mature H x S:** 6-10m x 3m

Qty Required: **SHRUBS AND HEDGES** 

Qty Required:

Botanical Name: Banksia ericifolia 'Little Eric'

Botanical Name: Agave 'Blue Glow'

**ACCENT PLANTS** 

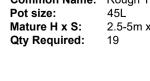
Pot size: Qty Required:

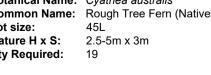












# **GRASSES + GROUNDCOVERS**

Botanical Name: Lomandra hystrix 'Katie Bells' Common Name: Katie Bells Mat Rush (Native) Pot size: 200mm **Mature H x S:** 1.2m x 1.2m Qty Required: 36

**Botanical Name:** Dietes grandiflora **Common Name:** Fortnight Lily (Exotic) Pot size: **Mature H x S:** 0.9m x 0.8m Qty Required: 75

**Botanical Name:** Hardenbergia 'Meema' Common Name: Meema Purple Coral Pea (Native) Pot size: **Mature H x S:** 0.3m x 1.5m Qty Required: 5/m2 (24m2 total)

**Botanical Name:** Senecio serpens Common Name: Blue Chalk sticks (Exotic) Pot size: 140mm **Mature H x S:** 0.2m x 0.4m Qty Required: 5/m2 (3.2m2 total) Botanical Name: Liriope muscari 'Just Right'

Common Name: Liriope Just Right (Exotic) 140mm **Mature H x S:** 0.5m x 0.5m Qty Required: 7/m2 (19.7m2 total)

Dianella revoluta 'Revelation' Poa labillardieri 140mm Pot size: Mature H x S: < .8m

Dianella caerulea Viola hederacea Dichondra repens Convolvulus arvensis Doodia aspera Pot size: **Mature H x S:** 0.25m x 0.75m Qty Required: 5/m2 (98.6m2 total) Common Name: Star Jasmine (Exotic)

Mature H x S: 0.3m x climbing

### Botanical Name: Viburnum odoratissimum

4m 300mm

1m trunks



Common Name: Sweet Viburnum (Exotic) 300mm Pot size: Mature H x S: 3m x 2m Qty Required: 21

Botanical Name: Acmena 'Cherry Surprise' Common Name: Cherry Surprise Lilly Pilly (Native) **Mature H x S:** 2m x 1.5m

Botanical Name: Syzygium 'Cascade' Common Name: Cascade Lilly Pilly (Native) Pot size: **Mature H x S:** 2.5m x 1.8m Qty Required: 28

**Common Name:** Heath Banksia (Native) Pot size: **Mature H x S:** 1.x 1.4m Qty Required:

Botanical Name: Callistemon citrinus 'White Anzac' Common Name: Callistemon White Anzac (Native) Pot size: Mature H x S: 14m x 2m

Qty Required: Botanical Name: Westringia 'Blue Gem' Common Name: B. Gem Coastal Rosemary (Native) Pot size: **Mature H x S:** 1.5m x 1.3m

Qty Required:

**Botanical Name:** Cordyline australis Common Name: Cabbage tree (Native) Pot size: Mature H x S: 1.5-2.5m x 1-2.5m Qty Required:

Common Name: Blue Glow Agave (Exotic) **Mature H x S:** 0.6m x 0.75m Qty Required:

Botanical Name: Agave tequiliana Common Name: Tequila Agave (Exotic) **Mature H x S:** 1.5m x 1.5m

Botanical Name: Doryanthes excelsa Common Name: Gymea Lily (Native) **Mature H x S:** 1.1m x 1m Qty Required: 36

Botanical Name: Phormium tenax 'Purpureum' Common Name: New Zealand Flax (Exotic) **Mature H x S:** 0.9m x 0.9m Qty Required:

Botanical Name: Asplenium australasicum Common Name: Birds Nest Fern (Native) **Mature H x S:** 1m x 1.4m Qty Required:

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

Native Grass Groundcover Mix: Lomandra longifolia 'Tanika' Themeda triandra

Qty Required: 4/m2 (94.5m2 total) **Shade Groundcover Mix:** 

Botanical Name: Trachelospermum Jasminoides Pot size:

### Qty Required: 105 **EXISTING VEGETATION**



Trees proposed to be removed and replaced with new landscaping



Existing trees proposed to be retained

# **MATERIAL FINISHES**

— — Brick garden edging - refer detail Turf area - refer detail

Gravel or pebble path - refer detail

Deco granite path - refer detail Paving - refer Architect's detail / specification

Retaining / raised planter wall - refer detail

## 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

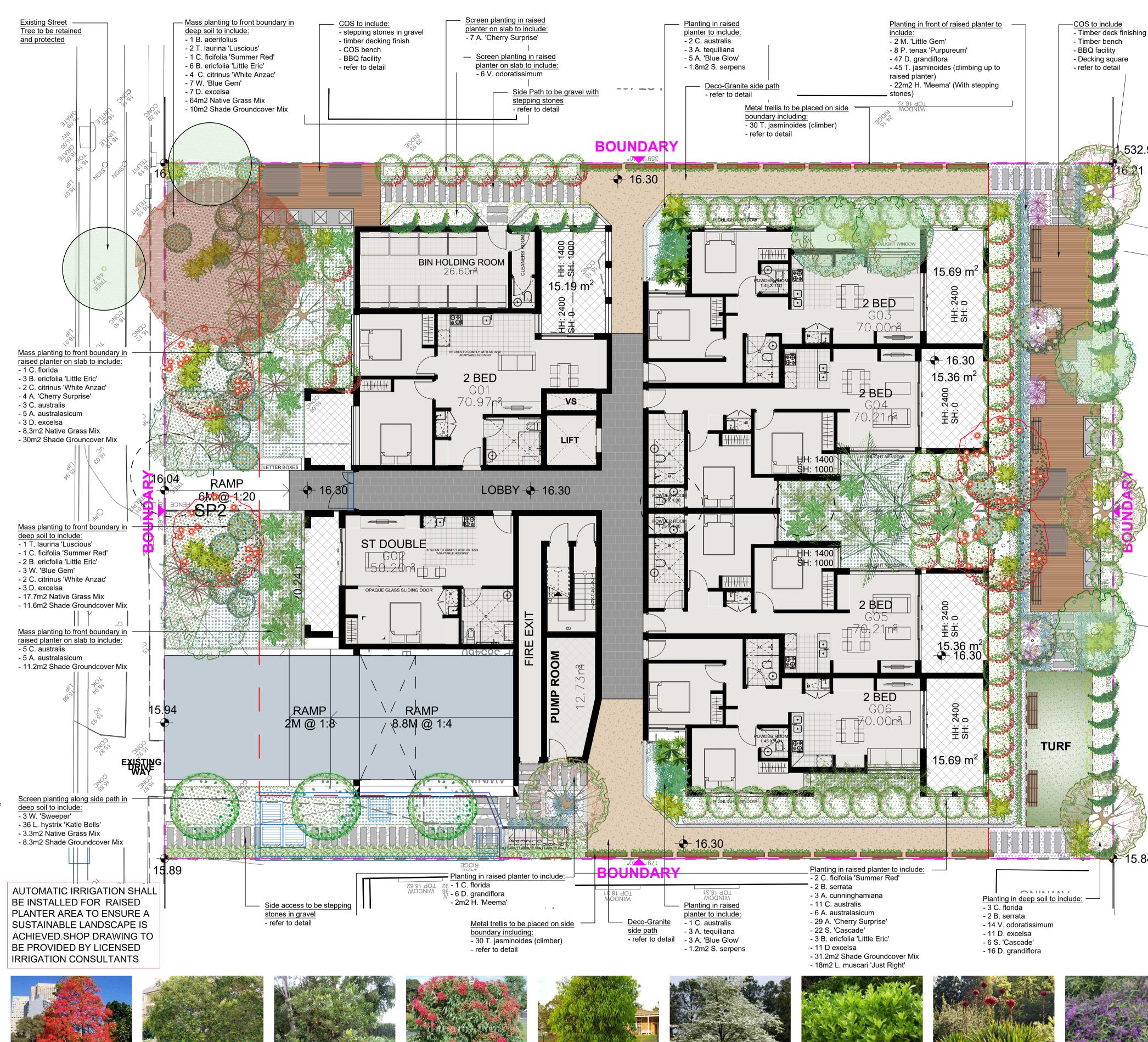
This plan has been prepared for DA approval only, not for construction.

This plan has been prepared with reference to *LIVERPOOL 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).

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 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.

0 1 2 3 4



GENERAL NOTE 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. These plans and associated in remain the property of the plans and associated in remain the plans and associated in remain the plant and associated in remai under the Copyright Act 1968, no part of this drawing may in any form or by any means be reproduced, published, broadcast or transmitted without the prior

If the Status of this drawing is not signed off For Construction it may be subject

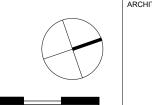
until such time as all agreed payments are made in full. We retain the right to withdraw this information from the assessment process if such payments are not made following

AILA Associate the notification period.









Brachychiton acerifolius



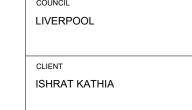


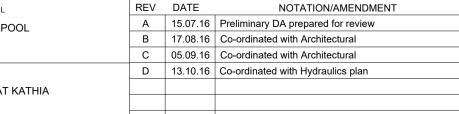
Tristaniopsis laurina 'Luscious'



Banksia serrata







Waterhousia 'Sweeper

Cornus florida

**DEVELOPMENT** 

129-131 MEMORIAL AVE.

LIVERPOOL NSW

Corymbia ficifolia 'Summer Red'

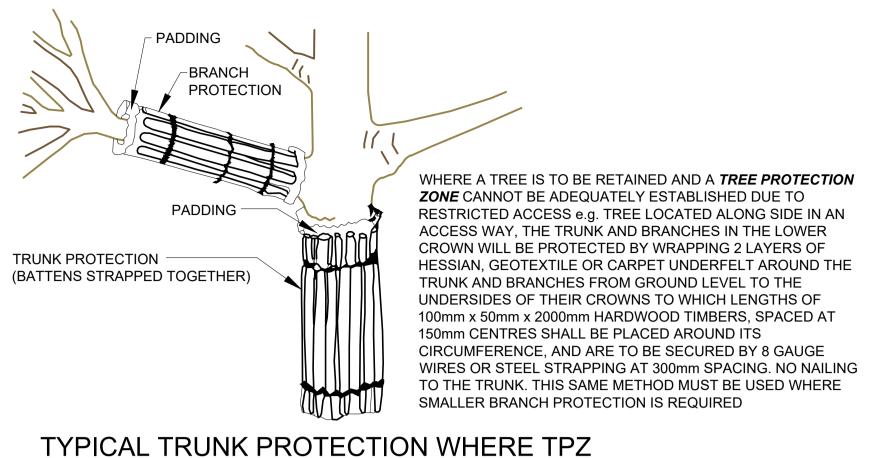


DEVELOPMENT APPLICATION LANDSCAPE PLAN 1:100 @ A1 or 1:200 @ A3 JULY 2016 LPDA 17 - 018 D.K R.F

Doryanthes excelsa

Hardenbergia 'Meema'

532.98 m<sup>2</sup>

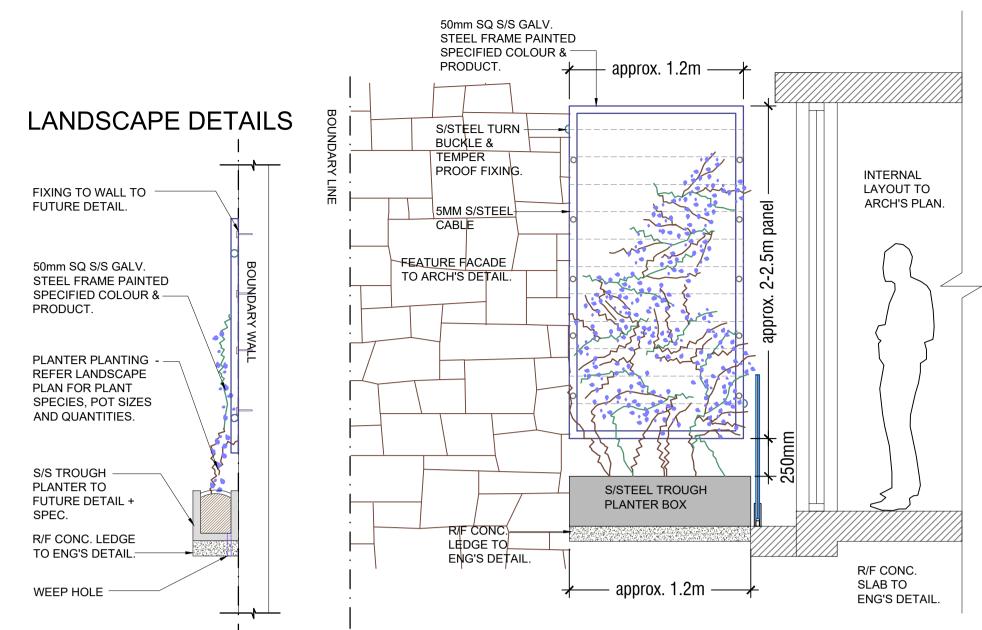


# TYPICAL TRUNK PROTECTION WHERE TPZ FENCING NOT PRACTICAL

NTS

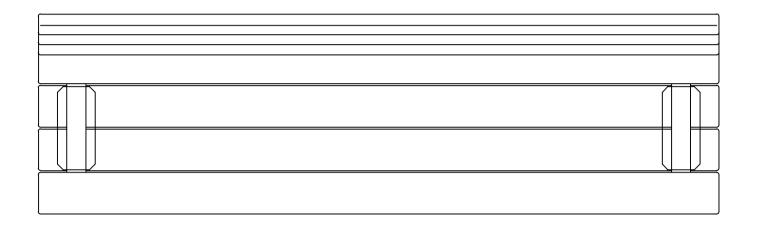


**SAMPLE IMAGE: MASONRY RETAINING WALLS WITH DECKING** 

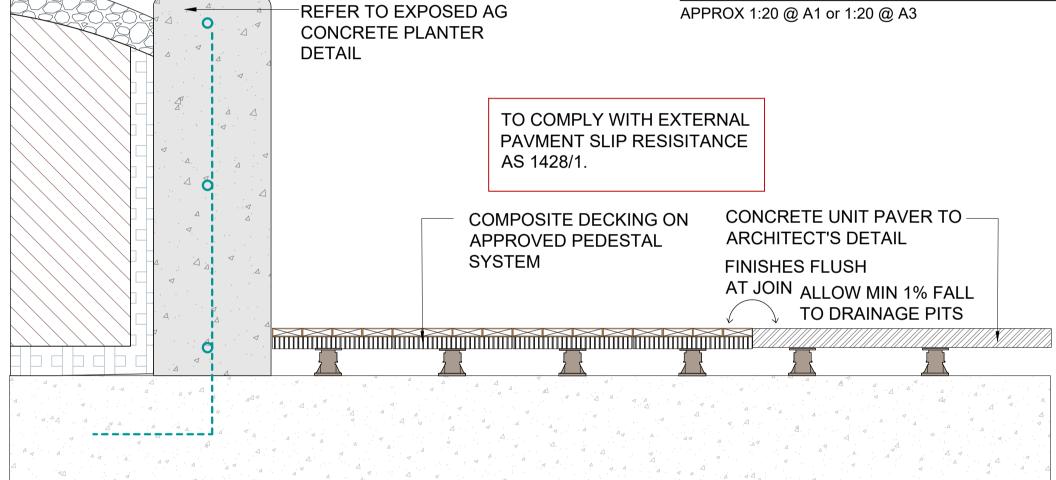


S/S STEEL FRAME WALL ELEVATION

APPROX 1:20 @ A1 or 1:20 @ A3



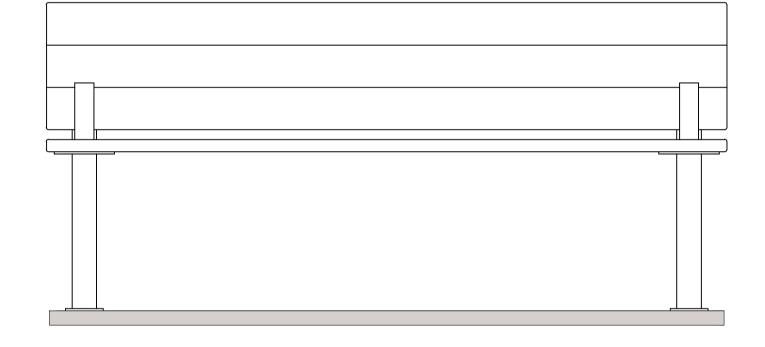




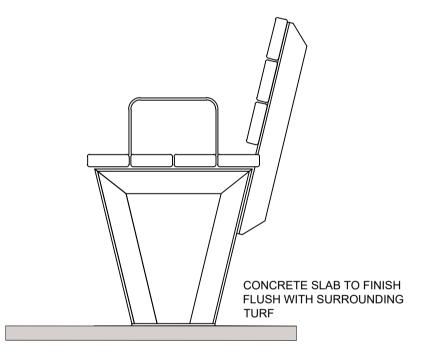


HARDWOOD DECK + PAVING ON SLAB DETAIL

SCALE: NTS



**GOSSI - MONACO BENCH SEAT** 



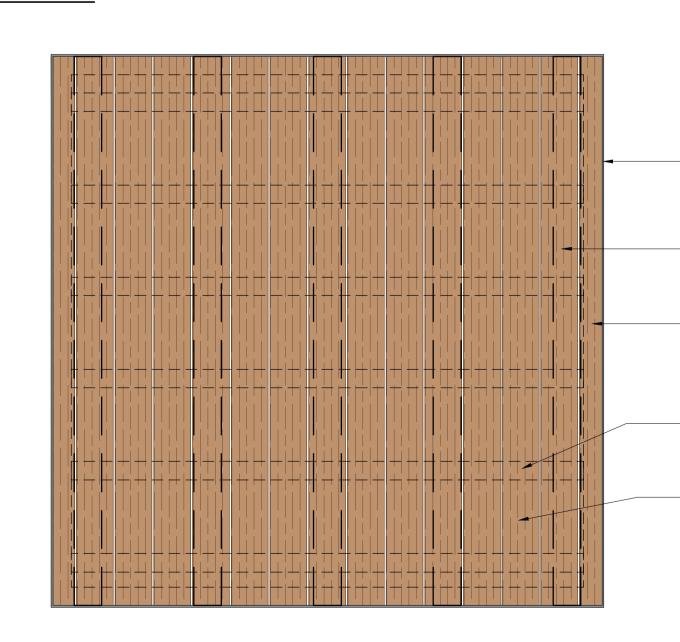


100mm x 30mm ENVIROSLAT COMPOSITE RECYCLED PLASTIC **DECKING SLATS** 

STAINLESS STEEL EDGE TO FULL PERIMETER OF RAISED SEAT FIXED TO ENDS OF BEARERS WITH ROUND HEAD SHEET METAL SCREWS TO SUIT

U-SHAPED GALVANISED STEEL STIRRUP BEARER SUPPORTS

REINFORCED CONCRETE FOOTPATH SLAB TO ENG. DETAILS



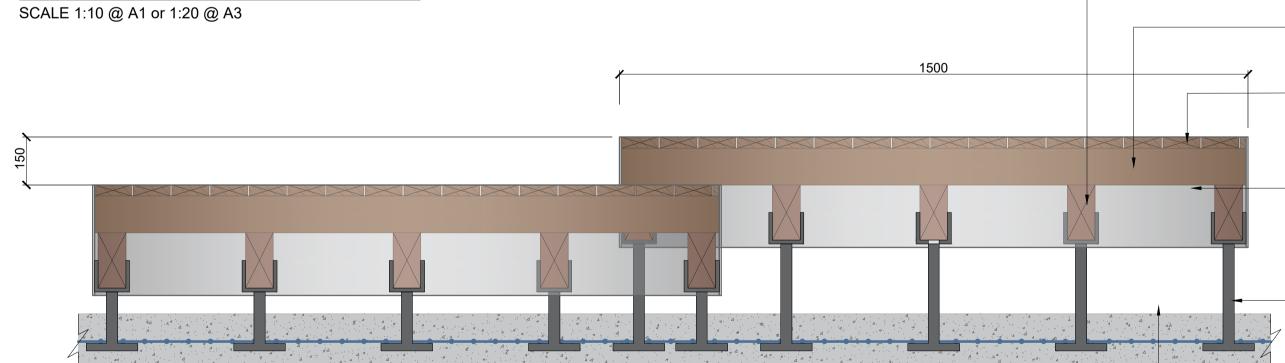
STAINLESS STEEL EDGE TO FULL PERIMETER

150mm x 75mm COMPOSITE RECYCLED PLASTIC BEARER

100mm x 50mm COMPOSITE RECYCLED PLASTIC **BORDERING JOIST** 

100mm x 50mm COMPOSITE RECYCLED PLASTIC JOIST

-100mm x 30mm ENVIROSLAT COMPOSITE RECYCLED PLASTIC **DECKING SLATS** 



DECKING SQUARE LINKED TO STAIR DETAIL

GENERAL NOTE: site. PDF'd plans may vary slightly in Scale for that indicated on plans. Report any whether special, consequential, direct or indirect, suffered by site. PDFd plans may vary slightly in Scale for that indicated on plans. Report any wiscrepancies to the Landscape Architect before proceeding with the work.

© Copyright R. L Frew Landscape Architectural Services T/A CONZEPT
This drawing is protected by copyright. All rights are reserved. Unless permitted under the Copyright And 1968, no part of this drawing may in any form or by any means be reproduced, published, broadcast or transmitted without the prior written permission of the copyright owner.

If the Status of this drawing is not signed off For Construction it may be subject

AlLA Associate If the Status of this drawing is not signed off For Construction it may be subject the notification period.





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

OUNCIL	REV	DATE	NOTATION/AMENDMENT	PROJECT:
IVERPOOL	Α	15.07.16	Preliminary DA prepared for review	PR
				1 1
				DE
LIENT				
SHRAT KATHIA				129
				1 1

	PROJECT:
	PROPOSED APARTMENT
	DEVELOPMENT
	129-131 MEMORIAL AVE,
_	LIVERPOOL NSW

TITLE:			STATUS:		
DETAIL			DEVELOPMENT APPLICATION		
			SCALE:	DATE:	
			AS NOTED	JULY 2016	
	DWG.No:	PAGE NUMBER:	DRAWN:	CHECKED:	
	LPDA 17 - 018	2	D.K	R.F	

### **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

### standard shall be followed. 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 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 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

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.

#### 1.04 EROSION & POLLUTION CONTROL

50mm diameter shall be cut cleanly with a saw.

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:

The fencing shall be maintained for the full construction period.

- 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

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 "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 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 for 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

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 implement the recommendations of

## 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.

## 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.

## 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 approved equal.

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 Officer. Above - Ground Assessment:

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. b) Stakes and Ties

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.

#### 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

### a) 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

### 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 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 material.

#### 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.

f) Steel Edging 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.

### 4.01 GENERAL

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

Paying - refer to typical details provided, and applicable Australian Standards. Permeable paying 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 shall nominate the appropriate paving material to

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

#### Division on (02) 8836 5332 **IRRIGATION WORKS**

### 5.01 GENERAL (PERFORMANCE SPECIFICATION)

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 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, LIVERPOOL Council By-Laws and Ordinances.

- The Landscape Contractor nominated Licensed Irrigation Specialist shall provide irrigation drawings for approval upon engagement.

- 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

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

- The landscape contractor shall check the existing pressure available from the ring mains and size irrigation piping to

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

- 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.

immediately rectified.

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 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

## - 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** 

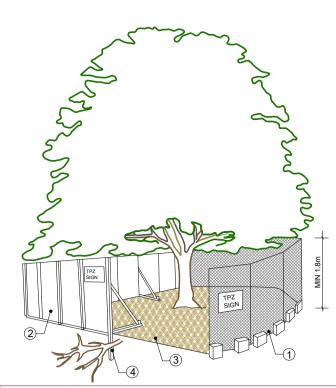
## 6.01 GENERAL

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 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
- Adjusting ties to Stakes 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.



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

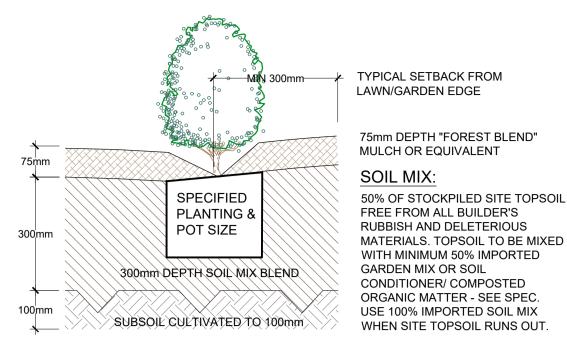
3. MULCH INSTALLATION ACROSS SURFACE OF TPZ (AT THE DISCRETION OF THE PROJECT ARBORIST). NO **EXCAVATION, CONSTRUCTION** ACTIVITY, GRADE CHANGES, SURFACE TREATMENT OR STORAGE OF MATERIALS OF ANY KIND IS PERMITTED WITHIN THE TPZ

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

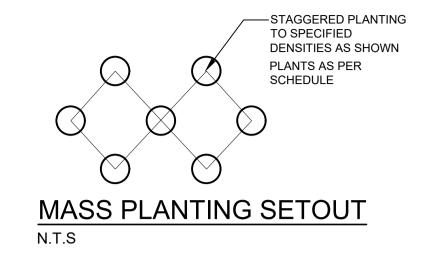
PROVIDE FENCING AS DETAILED TO ALL TREES PROPOSED TO BE RETAINED ON THE SUBJECT SITE. FENCING TO BE LOCATED TO THE DRIP LINE OF TREES OR AS INDICATED ON PLANS OR DIRECTED ON-SITE BY ARBORIST. NO STOCKPILING WITHIN FENCE PERIMETERS.

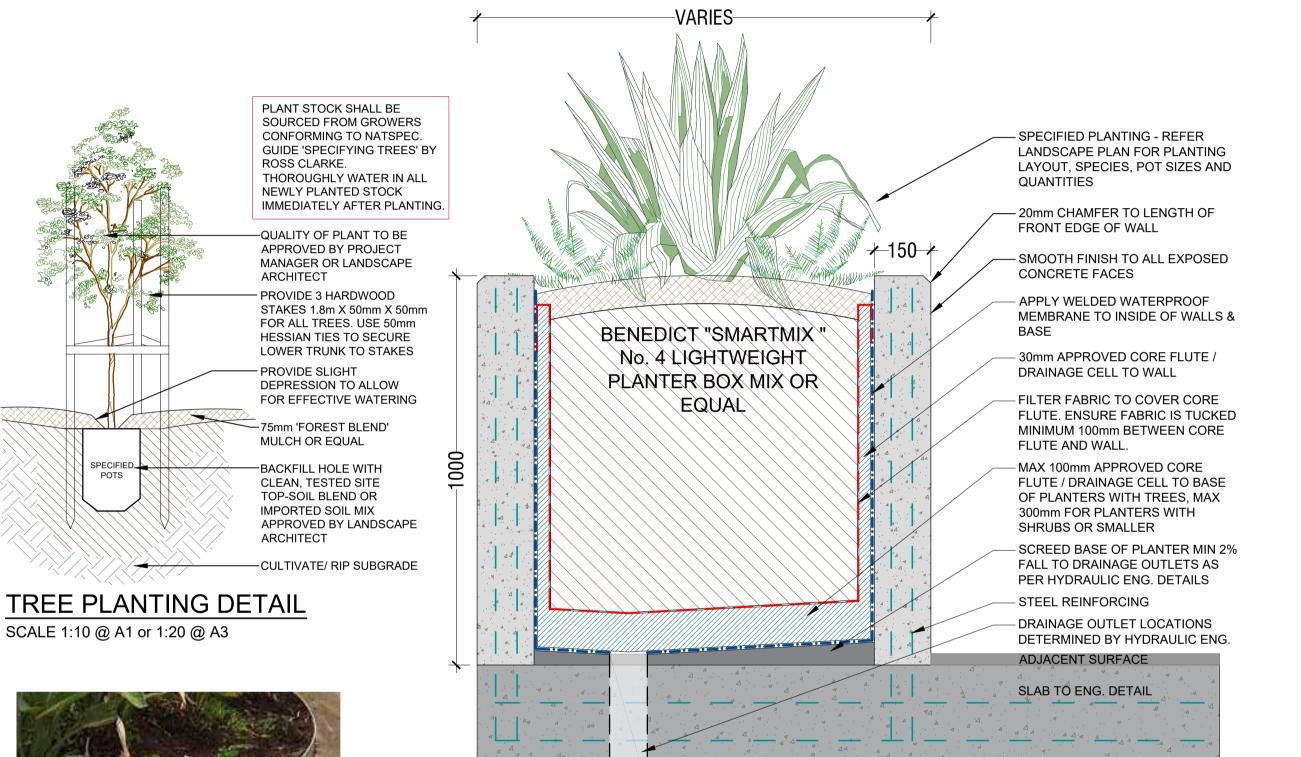
# TREE PROTECTION ZONE

N.T.S

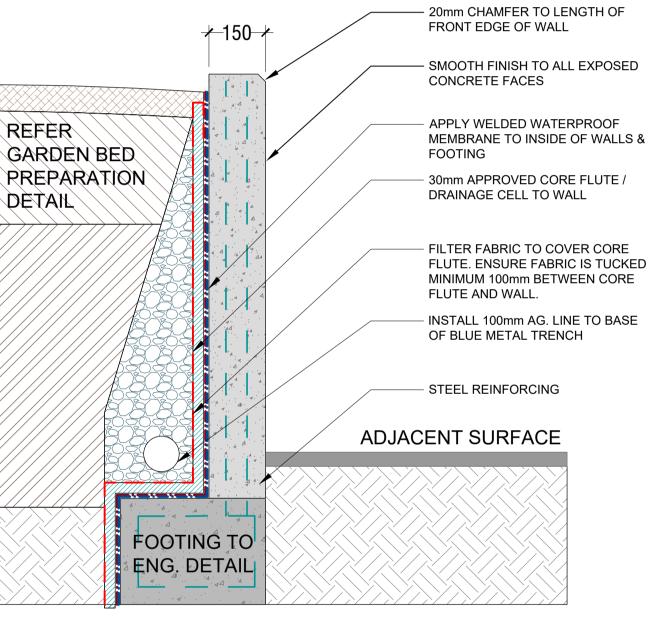


## TYPICAL GARDEN PREPARATION DETAIL SCALE 1:10 @ A1 or 1:20 @ A3

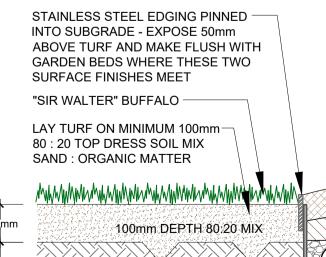




TYPICAL IN SITU RAISED PLANTER ON SLAB DETAIL SCALE 1:10 @ A1 or 1:20 @ A3



TYPICAL IN SITU RETAINING WALL DETAIL SCALE 1:10 @ A1 or 1:20 @ A3



SCALE 1:10 @ A1 or 1:20 @ A3

SAMPLE IMAGE: S. STEEL GARDEN EDGING

NOTE: TURF AREAS TO FINISH FLUSH WITH SURROUNDING SURFACE FINISHES (EXCEPT GARDEN BEDS). ROLL AND WATER IMMEDIATELY AFTER LAYING.

REFER GARDEN PREP DETAIL

-100MM AG LINE IN BLUE METAL TRENCH TO CONNECT TO SITE

MMM/MM/M REFER TURF DETAIL EARTH UNDER

PROVIDE STABILITY.

400mm x 800mm CONCRETE — STEPPING STONES 100mm DEPTH OF PINK DECO. SELECTED BY CLIENT **GRANITE COMPACTED TO 75mm WITH** 20% CEMENT ADDED TO MIX TO COMPACTED ZEARTH UNDER

CONCRETE PAD UNDER-----

STEPPING STONES



### TURF WITH STEEL EDGE DETAIL **DECO-GRANITE DETAIL**

STEPPING STONES IN COUNDCOVER PLANTING SCALE 1:10 @ A1 or 1:20 @ A3

#### GENERAL NOTE: site. PDF'd plans may vary slightly in Scale for that indicated on plans. Report any whether special, consequential, direct or indirect, suffered by C Copyright R. L Frew Landscape Architectural Services T/A CONZEPT for construction purposes. his drawing is protected by copyright. All rights are reserved. Unless permitted Frew Landscape Architectural Services Pty Ltd (T/A Conzept under the Copyright Act 1968, no part of this drawing may in any form or by any

to change, alteration or amendment at the discretion of our office.

means be reproduced, published, broadcast or transmitted without the prior retain the right to withdraw this information from the until such time as all agreed payments are made in full. We If the Status of this drawing is not signed off For Construction it may be subject the notification period.







COUNCIL
LIVERPOOL
CLIENT
ISHRAT KATHIA

CIL	REV	DATE	NOTATION/AMENDMENT	PROJECT:
RPOOL	Α	15.07.16	Preliminary DA prepared for review	PROPOSED APAR
				DEVELOPMENT
Т				400 404 MEMODIAL AVE
RAT KATHIA				129-131 MEMORIAL AVE
				LIVERPOOL NSW
				LIVEIN OOL NOVV

SCALE 1:10 @ A1 or 1:20 @ A3

STAINLESS STEEL EDGING

PINNED INTO SUBGRADE -

SURROUNDING SURFACES

FINISH FLUSH WITH

DEVELOPMENT APPLICATION **SPECIFICATION & DETAIL** ROPOSED APARTMENT **AS NOTED JULY 2016** -131 MEMORIAL AVE, LPDA 17 - 018 D.K R.F