

0 5 Planting plan 1:150 @ A1 Buffalo Buffalo 20 LOT COA Z CVE 8 CLJ 6 RAI(SM) Unit 4 Unit ' Soft leaf Buffalo Unit 3 5 ER Prune lower branches 20 LIM Soft leaf Buffalo turf 'Shademaster'

Typical above ground detention area planting









Note:Prune lower 600mm of screen plantings to provide clearance for above ground OSD areas.

Planting schedule

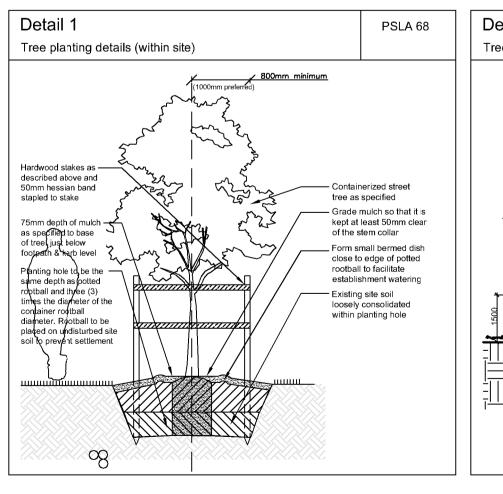
	Botanical name	Common name	Cont. size	Staking	Mature height	No req.
Trees	5. 35. W. F. S.			15 (7.5) Taxy.		
APB	Acer palmatum	Bloodgood Maple (Purple red foliage small deciduous tree)	45Lt	3x50x50x1800	4-5.0M	9
ASM	Acmena smithii	Lilly Pilly (Native tree in dep soil. Prune lower branches)	100Lt	3x50x50x1800	8-10.0M	2
CKS	Callistemon Kings Park Special'	Bottlebrush small (native street tree under power line)	75Lt	2x50x50x1800	3-3.5M	3
ER	Elaeocarpus reticulatus	Blueberry Ash (indigenous small tree)	45Lt	3x50x50x1800	6-8.0M	7
GLO	Glochidion ferdinandii	Cheese Tree (Indigenous medium tree)	75Lt	3x50x50x1800	8-10.0M	1
MLQ	Melalueca quinquenervia	Flax Leaf Paperbark (indigenous medium tree)	75Lt	3x50x50x1800	12-15.0M	2
SYG	Syncarpia glommulifera	Turpentine (indigenous canopy tree)	75Lt	3x50x50x1800	18-25.0M	1
Shrubs /	screening plants					
CVE	Callistemon citrinus 'Endeavor'	Endeavor Crimson Bottlebrush (Flowering native small tree)	300mm	nil	3-4.0M	4
CLJ	Callistemon 'Little jet'	Little Jet Bottlebrush (Flowering native ideal for hedging)	200mm	nil	0.8-1.4M	15
COA	Correa alba	White Correa (hardy salt wind tolerant coastal shrub)	200mm	nil	1.5-2.0M	4
MLG	Magnolia 'Little Gem'	Little Gem (small ornamental standard tree)	300mm	2x50x50x1800	2.5-3.0M	6
MP	Murraya paniculata	Orange Jessamine (flowering screening plant)	300mm	hedged	2-3.0MM	3
RAI	Raphiolepis indica	Indian Hawthorn (hedging dense flowering plant)	300mm	nil	1.2-1.8M	7
RAI (OP)		Oriental Pearl (hedging dense flowering plant)	300mm	nil	1.0M	3
	Raphiolepis indica SM	Snow Maiden (hedging dense flowering plant)	300mm	nil	1.0M	6
SNN	Syzygium 'Straight and Narrow'	Narrow vertical Lilly Pilly (narrow vertical growing screen plant)	300mm	hedged to req.height		11
SYR	Syzygium 'Resilience'	Resilience Lilly Pilly (native screen plant. Can be hedged)	300mm	hedged	2.8-3.5M	7
WFB	Westringia fruticosa 'Blue Gem'	Dwarf Blue Westringia (hardy low gorwing plant)	150mm	hedged	1.2-1.5M	5
Ferns / P	alms / Succulents / ornamental	bamboos				_
CAA	Cyathea australe	Tree Fern (Native tree fems)	300mm	nil	2-4.0M	5
DRD	Draceana draco	Dragon Tree (striking feature plant)	semi adv.	nil	2.5-3.5M	1
		Kentia Palm (tall palm)	150Lt			1
HOF(A)	Howea forsterana			Wire allys	7-10 OM	
	Howea forsterana			wire guys	7-10.0M	1
HOF(B)	Howea forsterana	Kentia Palm (tall palm)	45Lt	wire guys	7-10.0M	1
						1 10 5
HOF(B) NAN RHA	Howea forsterana Nandina domestica	Kentia Palm (tall palm) Heavenly Bamboo	45Lt 200mm	wire guys nil	7-10.0M 1.2-1.8M	
HOF(B) NAN RHA Ground c	Howea forsterana Nandina domestica Raphis excelsor covers/Climbers	Kentia Palm (tall palm) Heavenly Bamboo Lady Finger Palm	45Lt 200mm 300mm	wire guys nil nil	7-10.0M 1.2-1.8M 2-2.5M	5
HOF(B) NAN RHA Groundo HIS	Howea forsterana Nandina domestica Raphis excelsor overs/Climbers Hibbertia scandens	Kentia Palm (tall palm) Heavenly Bamboo Lady Finger Palm Guinea Flower (flowering climber / groundcover)	45Lt 200mm 300mm	wire guys nil nil	7-10.0M 1.2-1.8M 2-2.5M	2
HOF(B) NAN RHA Groundo HIS MYP	Howea forsterana Nandina domestica Raphis excelsor overs/Climbers Hibbertia scandens Myoprum parvifolium	Kentia Palm (tall palm) Heavenly Bamboo Lady Finger Palm Guinea Flower (flowering climber / groundcover) Creeping Boobliala (native cascading groundcover)	45Lt 200mm 300mm 200mm 150mm	wire guys nil nil nil	7-10.0M 1.2-1.8M 2-2.5M 0.3M 0.2M	5 2 18
HOF(B) NAN RHA Groundo HIS MYP SOJ	Howea forsterana Nandina domestica Raphis excelsor covers/Climbers Hibbertia scandens Myoprum parvifolium Solanum jasminoides	Kentia Palm (tall palm) Heavenly Bamboo Lady Finger Palm Guinea Flower (flowering climber / groundcover) Creeping Boobliala (native cascading groundcover) Potato Vine (deciduous climber over pergola)	45Lt 200mm 300mm 200mm 150mm 300mm	wire guys nil nil nil trained over pergola	7-10.0M 1.2-1.8M 2-2.5M 0.3M 0.2M 3.5M	2 18 3
HOF(B) NAN RHA Groundo HIS MYP SOJ TJA	Howea forsterana Nandina domestica Raphis excelsor overs/Climbers Hibbertia scandens Myoprum parvifolium Solanum jasminoides Trachelospermum asiaticum	Kentia Palm (tall palm) Heavenly Bamboo Lady Finger Palm Guinea Flower (flowering climber / groundcover) Creeping Boobliala (native cascading groundcover) Potato Vine (deciduous climber over pergola) Flatmat Star Jasmine (FT01 Ozbbreed hyvrid groundcover)	200mm 200mm 200mm 150mm 300mm 200mm	wire guys nil nil nil trained over pergola nil	7-10.0M 1.2-1.8M 2-2.5M 0.3M 0.2M 3.5M 0.2M	5 2 18 3 4
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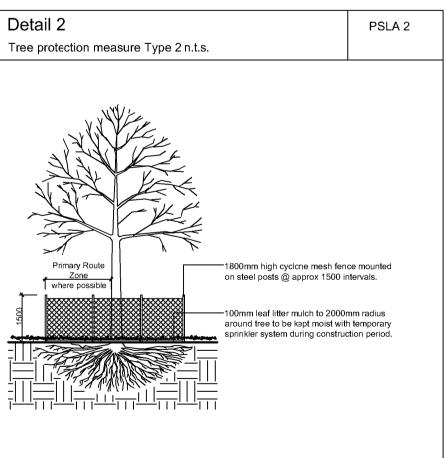
Planting schedule species to be sourced from local nurseries supplying plants of local provenance wherever possible. Landscape contractor is to check plant numbers on plan against the schedule prior to submitting tender price. Contact landscape architect if any number discrepancies are found. Council compliance controls require that any substitution of species variety or container size MUST be confirmed with landscape architect to ensure a compliance certificate can be issued that's meets the specific development consent conditions of the project.

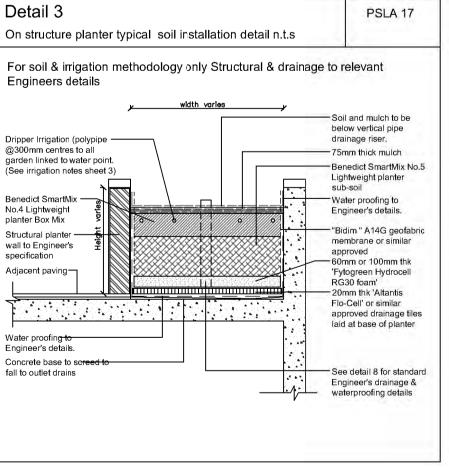


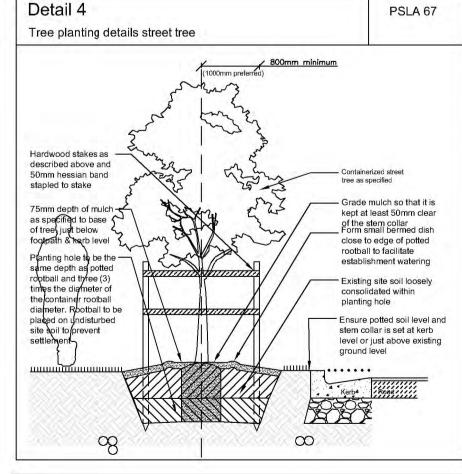
Above ground OSD basin planting suitable for occasional inundation. Note:OSD volume configured for 20% additional capacity to cater for planting as per standard OSD basin landscape treatment.

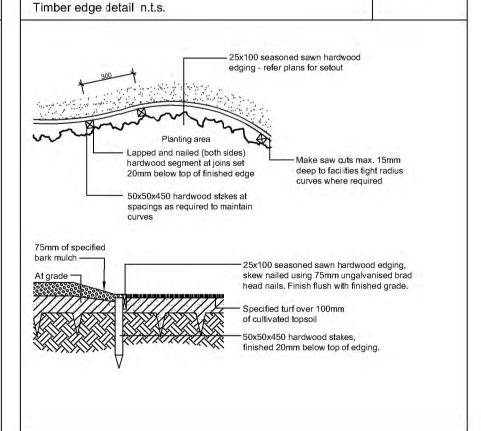
Detail 8











General installation notes

Any existing trees and vegetation to be retained shall be preserved and protected from damage of any sort during the execution of landscape work. In particular, root systems of existing plants must not be disturbed if possible. Any nearby site works should be carried carefully using hand tools. To ensure the survival and growth of existing trees during landscaping works, protect by fencing or armoring where necessary. Trees shall not be removed or lopped unless specific written approval to do so is given or is indicated on plan. Storage of materials, mixing of materials, vehicle parking, disposal of liquids, machinery repairs and refueling, site office and sheds, and the lighting of fires shall not occur within three (3) metres of any existing trees. Do not stockpile soil, rubble or other debris cleared from the site, or building materials, within the dripline of existing trees. Vehicular access shall not be

2. Soil preparation

All proposed planting areas to be deep ripped to 200mm (where possible) and clay soils to be treated with clay breaker.. Apply at least 200mm depth good quality garden soil mix to all garden planting areas (OSD basin area). To comply with AS 4419 Turfed areas as noted on plans to be laid over 100mm min. good quality turf underlay with sand mix for free drainage. Turfed areas to be to be laid over 100mm good quality turf underlay (with 25% washed sand mix for free drainage) to be installed over Benedicts Smart Mix no.4 Lightweight Planter Mix (or approved equivalent) to approx. 300-400 min. over drainage layer. See typical raised planter detail. To comply with AS 4454:1999.

No staking to plant material in raised planter areas to ensure no damage to waterproofing and drainage layers. Planting holes for plant material should be large enough in size to take root ball with additional space to take back filling of good quality planting mix. (Please note mature heights of planting as shown on planting schedule can vary due to site conditions, locations in constricted deep soil or over slab planters and so forth) Nominated heights for plantings in raised planters over slabs are nominated as less than their normal expected heights in acknowledgement of the contained soil environment. For other deep soil trees heights are subject to particular site conditions, and intended hedging or pruning for functional requirements such as available planting width, intended access under branches and solar access.

4. Raised planter soil installation methodology All slab areas to be waterproofed and 'Atlantis' drainage cell installed with geotextile fabric or similar approved. Refer Engineer's details for ALL structural and installation details. All waterproofing as per Architects specification. All raised gardens to have the

- Benedicts Smart Mix no. 4 Lightweight Planter Mix (or approved equivalent) to min. 400mm depth over Benedicts Smart Mix. No. 5 light weight base layer where raised planter depth are required for planters greater 700mm or greater. To comply with AS 4419
- All common area raised plantersand over slab areas to have automatic dripline irrigation system. (see separate irrigation notes)
- Landscape contractor to install all planter box fill material and plant material after other site works are completed to ensure no deterioration of waterproof membrane behind external walls.

Note: Hold point requirements for raised planting over slab.

Confirmation of waterproofing with certificate by qualified installer that it meets the specified requirements. Inspection of drains by the stormwater engineer prior to drainage and soil installation.

Landscape consultant to confirm correct soil and drainage layers have been installed

Landscape consultant to confirm that irrigation has been installed in all common areas landscape areas (excluding drainage

All planting areas to be mulched with a minimum 75mm thick cover of recycled hard wood chip mulch and then all plant areas to be thoroughly soaked with water. To comply with AS 4454

6. Fertliser All planting areas to be fertilised with 9 month 'NPK' slow release fertiliser.

No staking in raised planters to avoid damaging waterproofing installation

Turfed areas to be to be laid over 100mm good quality turf underlay (with sand mix for free drainage) to be installed over Benedicts Smart Mix no.4 Lightweight Planter Mix (or approved equivalent) to min 300 min. to comply with condition # 22. See typical raised planter detail. To comply with AS 4454:1999

All structural details whatsoever to Structural and Civil Engineer's details. All site and raised planter drainage to Stormwater Engineer's details.

10. Maintenance regime See separate maintenance notes

Maintenance schedule

The Landscape Contractor shall maintain the contract areas by accepted horticultural practices as well as rectifying any defects that become apparent in the works under normal use. The Landscape Contractor shall maintain the works and make good all defects for a period of twenty six (26) weeks after the date of practical completion. Practical completion of the landscape works shall include but not be limited to the replacement of plants which have failed or been damaged or stolen during work under the contract. Landscape maintenance shall include but not be limited to the following: watering, rubbish removal, spraying and wiping leaf surfaces, replacing failed plants, maintaining mulch, pruning, insect and disease control, cleaning of surrounding areas. Mow the nature strip turf when it is established at regular

After the completion of the defects period noted above the owners corporation of the residence are responsible for the ongoing maintenance and viability of the gardens

intervals to maintain an average height of 50mm.

and ongoing maintenance shall include the following: • Regular hand watering of gardens if installed drip line irrigation system is turned off. Irrigation to be installed and maintained as per manufacturers specifications including regular checks for function of system, to check for leaks and to ensure general good working operation. Regular maintenance of the irrigation system battery timers (where required) for isolated planter beds in common areas. Battery timers for private terraces are the responsibility of the individual

• Mulch is to be regularly topped up every 6 months to ensure an even 75mm coverage in all garden beds

 Regular pruning of plants is to be undertaken to ensure continued uniform growth of canopy and foliage of trees and shrubs. Removal of vegetation over the long term (if and when required) as the garden matures. Subject to the relevant courcil applications

unit owners

- Regular assessment of plants for evidence of insect attack or disease. Appropriate pest oil, white oil of industry standard safe to use pest spray is to be employed if required
- · Garden/lawn edging to be inspected regularly after practical completion to ensure it is maintained in good order. Replace where required if defective sections are
- All garden refuse, rubbish and associated items that arise from the regular garden maintenance procedures are to be collected and stored in appropriate general waste or green waste containers as is appropriate. Excess waste unable to be stored in Council waste containers is to be removed from the site is a timely

Irrigation notes

Automatic drip line watering system to be selected. To extend to ALL common area garden and landscape zones in the development including both the deep soil and raised planter wall areas and including all raised planter boxes over slab on all levels. (All lawn areas to be excluded.

Water supply tap hosecocks and water supply conduit to be coordinated by Hydraulic and Structural Engineer's details).

Prior to approval by the project manager and prior to installation the Contractor responsible for the irrigation installation is to provide an irrigation design to meet the following requirements.

Generally: Supply an automatic drip line irrigation system. To include all piping to solenoids either PVC lines and/or class 12 pressure pipe or low density, rubber modified polypropeyline reticulation as required to provide water supply to the nominated areas. To be coordinated with Hydraulic engineers plans. To include all bends, junctions, ends, ball valves, solenoids and all other ancillary equipment. Backwash valve: An approved backwash prevention valve is to be located at the primary water source for top up valves to rainwater tanks (where applicable).

Ensure rain sensor is installed for common area garden zones connected to timers

Root inhibiting system. Driplines to be 'Netafim Techline AS XR'

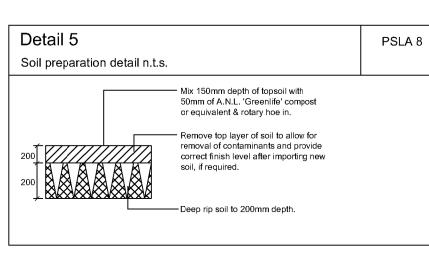
<u>Automatic Controller:</u> For all common area landscape areas provide automatic 2 week timer with hourly multi-cycle operation for each zone as noted on the irrigation areas plan on sheet. Battery timers to isolated planter boxes to private terraces.

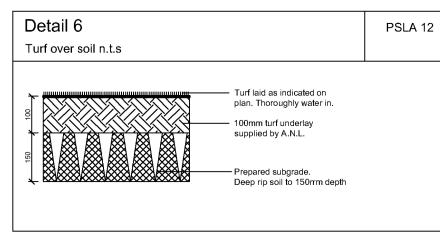
Performance: It shall be the Landscape Contractor's esponsibility to ensure and guarantee satisfactory operation of the irrigation system. The system is to be fit for the purpose and should utilize sufficient solenoids to provide for the varying watering requirements of landscape areas to allow all plants and lawn areas to thrive and attain long term viability.

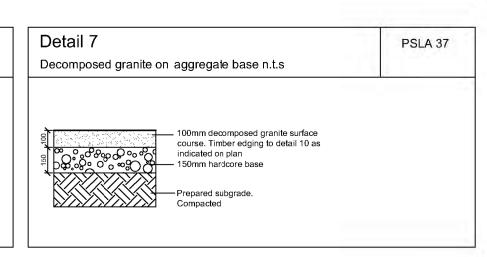
Testing: After the system has been installed to the satisfaction of the project manager, the installation shall be tested under working conditions. Acceptance of the installed plant and equipment shall be subject to these being satisfactory.

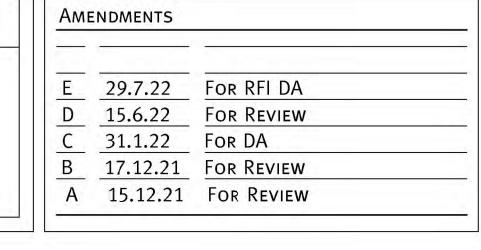
Warranty: A twelve month warranty is to be provided in writing by the Landscape Contractor, which shall commit the Landscape Contractor to rectify the system (the items they have installed) to the satisfaction of the project manager or nominated representative. This will apply should any fault develop, or the capacity or efficiency fall below that guaranteed, or should the discharge or pressure be inadequate, or should defects develop in the filter unit or control heads, or any blockages that may develop in the system.

Approvals: The Landscape Contractor is to liaise as necessary, to ensure that the irrigation system conforms with all Water Board, Council and Australian standards (AS)







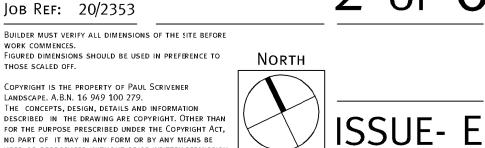




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10-12 BELLEVUE STREET, THORNLEIGH	COPYRIGHT IS THE PROPERTY OF PAUL SCRIVENER LANDSCAPE. A.B.N. 16 949 100 279. THE CONCEPTS, DESIGN, DETAILS AND INFORMATION				
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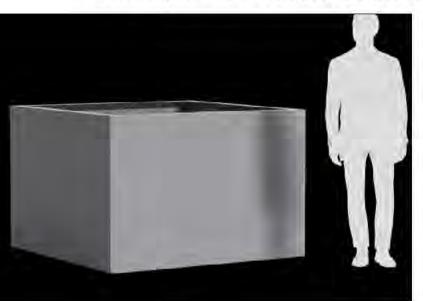


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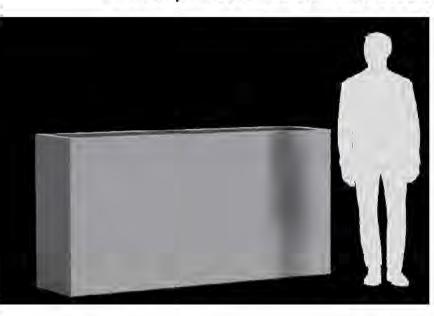
Typical planters for level 4

GRC planter 1200x1200x1000mm(hight)



GRC planter 1200-1600x600x1000mm(hight)

Detail 4.



Maintenance schedule

The Landscape Contractor shall maintain the contract areas by accepted horticultural practices as well as rectifying any defects that become apparent in the works under normal use. The Landscape Contractor shall maintain the works and make good all defects for a period of thirteen (13) weeks after the date of practical completion. Practical completion of the landscape works shall include but not be limited to the replacement of plants which have failed or been damaged or stolen during work under the contract. Landscape maintenance shall include but not be limited to the following: watering, rubbish removal, spraying and wiping leaf surfaces, replacing failed plants, maintaining mulch, pruning, insect and disease control, cleaning of surrounding areas.

After the completion of the defects period noted above the owner corporation responsible for the ongoing maintenance of the development are responsible for the ongoing maintenance and viability of the gardens and ongoing maintenance shall include the following:

- Regular hand watering of gardens if installed drip line irrigation system is turned off. Irrigation to be installed and maintained as per manufacturers specifications including regular checks for function of system, to check for leaks and to ensure general good working operation. Regular maintenance of the irrigation system battery timers (where required) for isolated planter beds in common areas. Battery timers for private terraces are the responsibility of the individual unit owners
- Mulch is to be regularly topped up every 6 months to ensure an even 75mm coverage in all garden beds
- Regular pruning of plants is to be undertaken to ensure continued uniform growth of canopy and foliage of trees and shrubs. Removal of vegetation over the long term (if and when required) as the garden matures. Subject to the relevant council applications
- Regular assessment of plants for evidence of insect attack or disease. Appropriate pest oil, white oil of industry standard safe to use pest spray is to be employed if required
- Garden/lawn edging to be inspected regularly after practical completion to ensure it is maintained in good order. Replace where required if defective sections are discovered
- All garden refuse, rubbish and associated items that arise from the regular garden maintenance procedures are to be collected and stored in appropriate general waste or green waste containers as is appropriate. Excess waste unable to be stored in Council waste containers is to be removed from the site is a timely manner.

General construction notes

Any existing trees and vegetation to be retained shall be preserved and protected from damage of any sort during the execution of landscape work. In particular, root systems of existing plants must not be disturbed if possible. Any nearby site works should be carried carefully using hand tools. To ensure the survival and growth of existing trees during landscaping works, protect by fencing or armoring where necessary. Trees shall not be removed or lopped unless specific written approval to do so is given or is indicated on plan. Storage of materials, mixing of materials, vehicle parking, disposal of liquids, machinery repairs and refueling, site office and sheds, and the lighting of fires shall not occur within three (3) metres of any existing trees. Do not stockpile soil, rubble or other debris cleared from the site, or building materials, within the dripline of existing trees. Vehicular access shall not be permitted within three (3) metres of any tree.

All proposed planting areas to be deep ripped to 200mm (where possible) and clay soils to be treated with clay breaker. Apply at least 200mm depth good quality garden soil mix to all garden planting areas. To comply with AS 4419 Turfed areas as noted to be laid over 100mm min. good quality turf underlay over existing soil which is to be deep ripped to 200mm depth prior to installation. To be worked in with rotary hoe except where tree root damage would otherwise occur. In such situations care to be taken to hand cultivate in any area where existing tree roots exist to preserve health of trees and to comply with the requirements of the Arborist's report. Where planting is to occur in existing soil profiles ensure soil conditioners and compots worked into the top 200mm profile. To comply with AS 4454:1999.

Newly planted trees and large shrubs should be secured to stakes with hessian ties to prevent rocking by wind. Planting holes for plant material should be large enough in size to take root ball with additional space to take back filling of good quality planting mix. (Please note mature heights of planting as shown on planting schedule can vary due to site conditions, locations in constricted deep soil or over slab planters and so forth) Also shallow soils in certain locations may affect planting heights. Nominated heights for plantings in raised planters over slabs are nominated as less than their normal expected heights in acknowledgement of the contained soil environment. For other deep soil trees heights are subject to particular site conditions, and intended hedging or pruning for functional requirements such as available planting width, intended access under branches

All slab areas to be waterproofed and 'Atlantis' drainage cell installed with geotextile fabric or similar approved. Refer Engineer's details for ALL structural, drainage and installation details whatsoever for wall construction. All raised gardens to have the following soils:

Benedicts Smart Mix no. 4 Lightweight Planter Mix (or approved equivalent) to min.

- 400-500mm depth.. To comply with AS 4419 and AS 3743
- All planter boxes are to have automatic dripline irrigation system.
- Landscape contractor to install all planter box fill material and plant material after other site works are completed to ensure no deterioration of waterproof membrane behind external walls.

All planting areas to be mulched with a minimum 75mm thick cover of recycled hard wood chip mulch and then all plant areas to be thoroughly soaked with water. To comply with AS

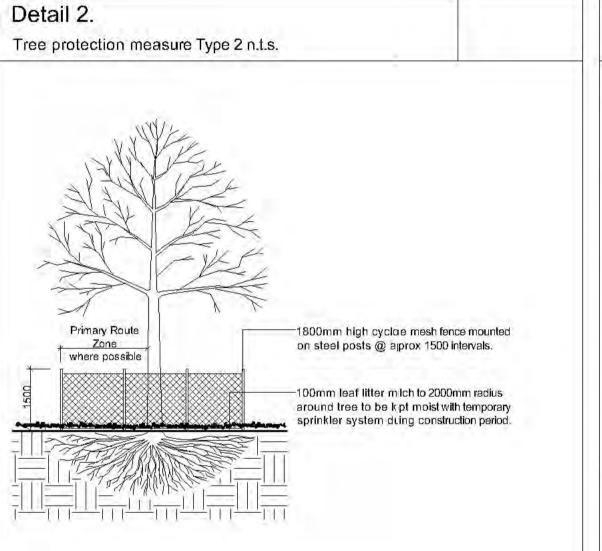
6. Fertliser

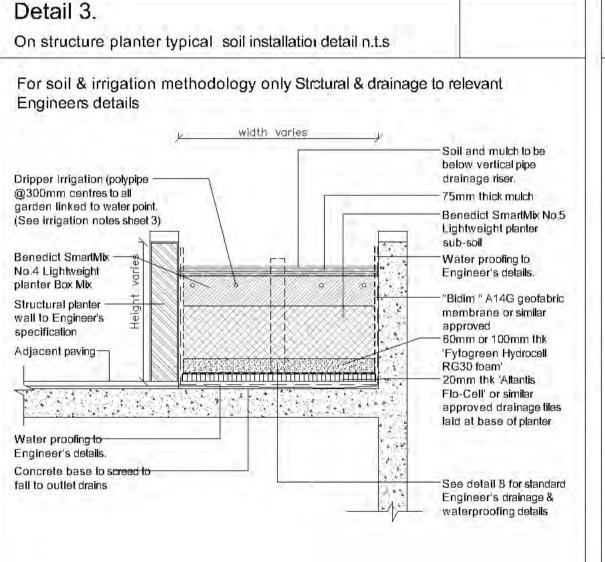
All planting areas to be fertilised with 9 month 'NPK' slow release fertiliser.

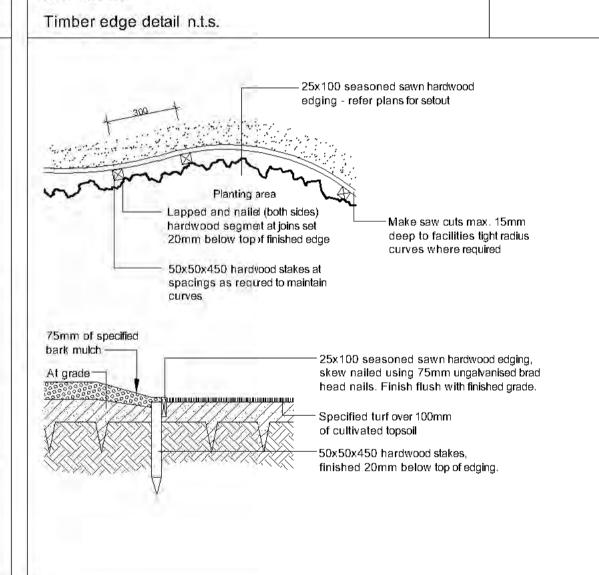
To those plants indicated on the planting schedules provide: hardwood stakes as nominated and driven into ground to a depth able to achieve rigid support. No staking in raised planters to avoid damaging waterproofing installation

Turfed areas to be to be laid over 100mm good quality turf underlay over existing soil which is to be deep ripped to 200mm depth prior to installation. See details sheet

9. Structural All structural details whatsoever to Engineer's details.







Turf over top soil

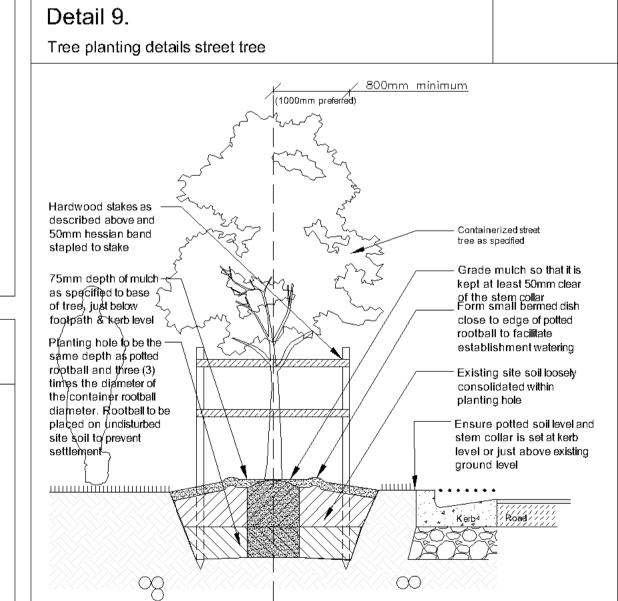
-Backfil with aggregate

drainage connection

Top soil to a minimum of 150mm

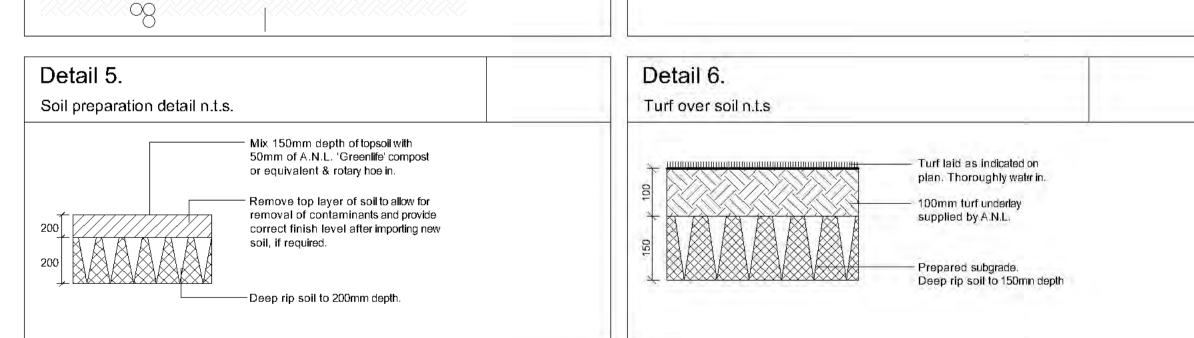
-Geotextile wrapped Ag. drainage line

Ensure base of trench falls to water outlet or



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ISSUE- E



Containerized street

Grade mulci so that it is

kept at least50mm clear

Form small termed dish

close to edge of potted

establishment watering

rootball to failitate

Existing sitesoil

loosely consolidated

within planting hole

tree as spedified

of the stem collar

Tree planting details (within site)

Hardwood stakes as -

described above and

50mm hessian band

75mm depth of mulch

as specified to base

footpath & kerb level

Planting hole to be the

same depth as∫potted

rootball and three (3)

container rootball

times the diameter of the

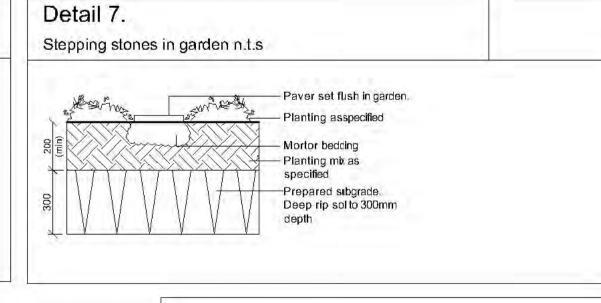
diameter. Rootball to be

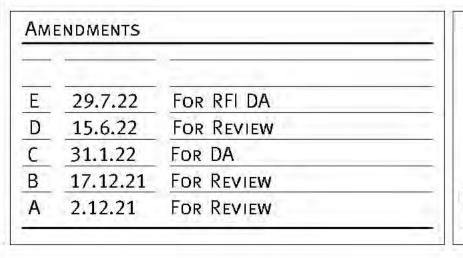
placed on undisturbed site

soil to prevent settlement

of treel, just below

stapled to stake







Detail 8.

Ag. drainage line n.t.s.





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