## LANDSCAPING PACKAGE

# QUEENSCLIFFE HUB **JUNE 2021**

\_\_KERSTINTHOMPSONARCHITECTS 277 Queensberry St, Melbourne, Australia 3000 T+613 8662 8800 kta@kerstinthompson.com www.kerstinthompson.com kta copyright 2018





# LANDSCAPE DESIGN

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## SCHEDULE OF DRAWINGS

DWG NO	REV	DATE	NAME
CD.00	C1	29.04.21	Drawing Schedule
CD.01	C1	29.04.21	Existing Trees Plan
CD.02	C1	29.04.21	Upper Plan Surfaces and Planting
CD.03	C1	29.04.21	Upper Plan Surfaces and Planting
CD.04	C1	29.04.21	Planting Schedule and Notes
CD.05	C1	29.04.21	Landscape Details

## FOR CONSTRUCTION

project			
QUEENSCLIFFE	E COMMUNITY HUB		
at HESSE ST	QUEENSCLIFF		
for KTA			
date	drawn by	drawing no.	rev
19.06.20	SE		
scale	project	CD00	C1
NA	279		
		copy	/right 2021

110 Highett Street Richmond 3121 Victoria, Australia t +61 3 8685 8699 m +61 (0)425818482 e office@simonellis.com.au w simonellis.com.au drawing title

DRAWING SCHEDULE

SIMON ELLIS LANDSCAPE ARCHITECTS

PRELIM 07.08.20 PRELIMINARY T1 07.10.20 PRELIMINARY C1 29.04.21 PRELIMINARY

Revision Date Issue Note

\_\_\_\_\_ \_\_\_\_\_



Exi	sting Tree Re	eport					
ID	Botanical Name	Common Name	Origin	Average Spread	Height	Action	Notes
T1	Agonis flexuosa	Willow Myrtle	Native	9500	8000	Retain	BRANCHES PRUNED TO OPEN UNDER-CANOPY, CONTINUED ARBORIST MONITORING
T2	Corymbia ficifolia	Red Flowering Gum	Native	6000	7100	Retain	BRANCHES PRUNED TO OPEN UNDER-CANOPY, CONTINUED ARBORIST MONITORING
Т3	Agonis flexuosa	Willow Myrtle	Native	9900	9400	Remove	DUE TO BUILDING WORKS
T4	Pittosporum eugeniodes	Tarata	Exotic	6200	9400	Remove	DUE TO BUILDING WORKS
T5	Ficus macrophyla	Moreton Bay Fig	Native	16000	10900	Retain	CONTINUED ARBORIST MONITORING
T6	Melia azadarach	White Ceder	Native	6000	6800	Remove	DUE TO BUILDING WORKS
T7	Bursaria spinosa	Sweet Bursaria	Native	4200	6800	Remove	DUE TO BUILDING WORKS
Т8	Bursaria spinosa	Sweet Bursaria	Native	5200	6800	Remove	DUE TO BUILDING WORKS
Т9	Bursaria spinosa	Sweet Bursaria	Native	3000	6800	Remove	DUE TO BUILDING WORKS



## TREE PROTECTION ZONE REFER TREE MANAGMENT AND PROTECTION PLAN

2 TREE PROTECTION FENCING CD01 Scale: 1:50

Tree Protection Fence installed around a tree at the perimeter of the Tree Protection Zone (TPZ). Anchor posts are located to avoid damage to tree roots greater than 25mm in diameter. A lockable gate can be installed in the fence if required for maintenance

purposes.





## FOR CONSTRUCTION

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Revision Date Issue Note

PRELIM 07.08.20 PRELIMINARY T1 07.10.20 PRELIMINARY C1 29.04.21 PRELIMINARY





drawing title EXISTING TREES PLAN project QUEENSCLIFFE COMMUNITY HUB

 
 at
 HESSE ST QUEENSCLIFF

 for
 KTA

 date
 drawn by

 19.06.20
 SE

 scale
 project

 1:200@A1
 279
 drawing no. rev CD01 C1

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POST OFFICE



Revision Date Issue Note PRELIM 07.08.20 PRELIMINARY T1 07.10.20 PRELIMINARY C1 29.04.21 PRELIMINARY

SIMON ELLIS LANDSCAPE ARCHITECTS



drawing title UPPER SURFACES AND PLANTING PLAN

project QUEENSCLIFFE COMMUNITY HUB at HESSE ST QUEENSCLIFF for KTA date drawn by 19.06.20 SE scale project 1:200@A1 279 drawing no. rev CD02 C1

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FOR CONSTRUCTION



## PLANTING AND SOIL NOTES

#### PLANTING SPECIFICATION 1.1 Mulch

#### General

General: Provide mulch which is free of deleterious and extraneous matter such as soil, weeds and sticks. Do not include fine mulch.

#### Standard: Particle size, physical and chemical contaminants: To AS 4454 Table 3.1(A).

pH, electrical conductivity, ammonium, chlorine and other nutrients: To AS 3743 Table 2.1 for regular mix. Organic mulches: Free of stones

#### Mulch material:

a) 12mm Recycled hardwood mulch b) 20-40mm Slate/pebble mulch as supplied by Burdett's 9789 8266 (not compacted) in areas as shown

#### 2 Execution 2.1 Preparation

Weed eradication

Herbicide: Eradicate weeds using environmentally acceptable methods, such as a non-residual glyphosate herbicide in any of its registered formulae, at the recommended maximum rate. Removal: Regularly remove, by hand, rubbish and weed growth throughout grassed, planted and mulched areas. Remove weed growth from an area 750 mm diameter around the base of the trees in grassed areas. Continue eradication throughout the course of the works and during the planting establishment period.

#### Vegetative spoil

Disposal: Remove vegetative spoil from site. Do not burn. 2.2 Planting

#### Setting out

Set out al plant material in accordance with the plan and obtain on-site approval of the

#### superintendent prior to planting Locations

General: If it appears necessary to vary plant locations and spacing's to avoid service lines, or to cover the area uniformly, or for other reasons, give notice. Planting conditions

#### Weather: Do not plant in unsuitable weather conditions such as extreme heat, cold, wind or rain. In other than sandy soils, suspend excavation when the soil is wet, or during frost periods.

Timing: Thoroughly water the plants before planting, immediately after planting, and as required to maintain growth rates free of stress.

Placing Method: Remove the plant from the container with minimum disturbance to the root ball. Root prune to ensure all circling roots have been either severed or aligned radially into the surrounding soil.

#### Make sure that the root ball is moist, place it in its final position, in the centre of the hole and plumb, and with the top soil level of the plant, level with the finished surface of the surrounding soil. Compact lightly so as to minimise subsidence without compacting the backfill. Avoid mixing mulch with topsoil. Planting Procedure Thoroughly soak the plant the day before planting

Do not disturb, compact or damage sub-surface soil improvements. Before doing any excavation or driving stakes, ascertain the location of all underground services. In the event that any are discovered, give notice immediately to enable the relocation of plants. Notify the superintendent of all soil or drainage conditions which the contractor considers

- detrimental to the plant conditions Observe recognised best horticultural practices during the planting procedure
- Excavate holes in accordance with the details. The contractor shall remove excess
- excavated soil from the site.
- If the excavated soil is very dry, fill the hole with water and allow to drain completely. Remove the plant from the container with minimum disturbance to the root ball. Root prune to ensure all circling roots have been either severed or aligned radially into the surrounding soil.
- Ensure that the root ball is moist and place it in its final position, in the centre of the hole and plumb, and with the top soil level of the plant root ball level with the finished surface of the
- surrounding soil. Compact lightly so as to minimise subsidence without compacting the backfill. Avoid mixing mulch with topsoil.

### PLANTING SPECIFICATION CONT.

Fertilising

#### Fertilise each plant as per soil specification Backfilling

General: Backfill with topsoil mixture or composted natural ground (refer soil spec). Lightly tamp and

water to eliminate air pockets. Make sure that topsoil is not placed over the top of the root ball, so the plant stem remains the same height above ground as it was in the container. 2.3 Mulching Placing mulch

General: Place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels. Spread and roll mulch so that after settling, or after rolling, it is smooth and evenly graded between design surface levels sloped towards the base of plant stems in plantation beds, and not closer to the stem than 50 mm in the case of gravel mulches. In mass planted areas: Place after the preparation of the planting bed but before planting and other

#### In smaller areas (e.g. planter boxes): Place after the preparation of the planting bed, planting and other work.

Extent: as shown Depths: Spread gravel mulch to a depth of 50 mm.

2.4 Spraying

#### General: Immediately give notice of evidence of insect attack or disease amongst plant material.

Spraying Product: Spray with insecticide, fungicide or both, as required.

#### 2.5 Stakes and ties

Material: Hardwood, straight, free from knots or twists, pointed at one end. Installation: Drive stakes into the ground at least one third of their length, avoiding damage to the root

Stake sizes For plants  $\ge$  2.5 m high: Three 50 x 50 x 2400 mm stakes per plant.

For plants 1 to 2.5 m high: Two 50 x 50 x 1800 mm stakes per plant For plants < 1 m high: One 38 x 38 x 1200 mm stake per plant.

General: Provide ties fixed securely to the stakes, one tie at half the height of the main stem, others

as necessary to stabilise the plant. Attach ties loosely so as not to restrict plant growth. Tie types For plants  $\geq$  2.5 m high: Two strands of 2.5 mm galvanized wire neatly twisted together,

passed through reinforced rubber or plastic hose, and installed around stake and stem in a figure eight pattern

For plants < 2.5 m high: 50 mm hessian webbing stapled to the stake. Trunk protection

Collar guards: 200 mm length of 100 mm diameter agricultural pipe split lengthways. 2.6 Completion

Product certification Certification: Submit the supplier's written statement certifying that plants are true to the required

species and type and free from diseases, pests and weeds. Cleaning Stakes and ties: Remove those no longer required at the end of the planting establishment period.

Temporary fences: Remove temporary protective fences at the end of the planting establishment period.

#### 2.7 Laying Turf

Irrigatio

Hand water

Equipment maintenance:

drv out between waterings

Maintenance guidelines:

2.8 Paving and structures

Furniture, signage and barriers

Repairs to planting media completed.

Vegetation is established and well formed.

ground and not able to be lifted out of its planting hole.

Removal of mulch from drainage and access areas.

Vegetation is not restricting essential sight lines and signage.

Only frangible species are growing within road side clear zones.

Specified vegetation setbacks from services and road furniture are evident.

All non-conformance reports and defects notifications have been closed out.

All hard landscape works have been installed and are operating as specified.

and to the specified depth.

Collection and removal of litter.

Plant establishment compliance table

< 10%

< 5%

< 5%

< 5%

Direct seeded grass species and cover crop

< 15%

300 mm or larger < Nil%

Plant material Acceptable failure per area

Hand watering

Paving

works.

Drains

Criteria

Tube stock

140 mm

Turf

Cells

working order.

2.9 Compliance

Inspection : Give notice of inspection of grassing bed prior to laying Products

Roll out turf: Tall Fescue Fertiliser: Proprietary fertiliser suitable e.g. Dynamic lifter

Execution: Preparation

BED evenly grade topsoil before laying ensuring there are no deviations in the surface

Anually water all lawn and planting areas until the proposed irrigation system is fully

operational, soaking to a depth of 150 mm for lawn and 300 mm for planting. Avoid frequent

dampening of the surface. Allow the surface of the soil to partially dry out between waterings.

The precipitation requirements of the individual zones/stations with regard to types of plants.

The infiltration rate of the soil/medium and associated physical factors seasons, evaporation,

An allowance for adjustment or shut down during and after periods prolonged heavy rains.

Operation: Ensure by adjustment or replacement of components, that the overall operation of the

General: Manually water all lawn and planting areas, soaking to a depth of 150 mm for lawn and

300 mm for planting. Avoid frequent dampening of the surface. Allow the surface of the soil to partially

Furniture and pots: Keep in a good condition and move as required to carry out maintenance

General: Inspect and clean all drainage structures and pit covers and ensure that they are in proper

Frequency: As required, so that all overflow drains are cleared when observed at fortnightly intervals.

Organic and rock mulched surfaces have been maintained in a weed free and tidy condition

Acceptable concentration of failure

< 15% in any given location

< 15% in any given location

< 15% in any given location

Nil %

Nil %

< 10%

Plants have healthy root systems that have penetrated into the surrounding, undisturbed

Ground surfaces are covered with the specified treatment to the specified depths.

Application Moisten the topsoil to its full depth before applying turf

Roll the turf evenly ensuring no airgaps, fill joints with topsoil Watering: Water with a fine spray until topsoil is watered to its full depth

After installation water to maintain a healthy condition

PLANT ESTABLISHMENT AND MAINTENANCE CONT.

exposure, topography, local authority restrictions.

Repair or replace damaged components with equivalent parts.

Weed and grass control: remove weeds between joints as required

Flush any dirt or foreign matter from the system and clear all blockages.

system is efficient and operational for the entire planting establishment period.

Directional and building signs: Keep in a good condition and maintain visibility.

Boundary and car park barriers: Keep in a good condition as originally specified.

Generally: Plant establishment shall be deemed complete, subject to the following:

Pests, disease, or nutrient deficiencies or toxicities are not evident

Check all components for proper operation.

Irrigation system program: To suit the following:

## PLANT ESTABLISHMENT NOTES

#### PLANT ESTABLISHMENT AND MAINTENANCE

## General

#### General

Requirement: Provide plant establishment for a **52 week period** 1.2 Interpretation

#### Definitions

General: For the purpose of this worksection the following definitions apply: Plant establishment period: The period between the date of practical completion and the end of the defects liability period.

#### 1.3 Submissions

- **Execution details** Notice: Provide two days notice of the following operations:
- Application of herbicide.

#### Application of fertiliser.

Watering. Each site maintenance visit.

Log book Records: Log the following on a weekly basis:

Description, time and method of application of toxic material.

#### Maintenance work details

Inclement weather to verify inability to carry out work within the specified time frame. Availability: Upon request.

#### Monitoring program

General: Provide a monitoring program developed by a specialist monitoring consultant and incorporating the following: Photographic record including:

#### Colour photographs.

Documented monitoring locations and photograph angles. Reporting periods including photographic records at the following:

#### Before commencement of the works

Date of practical completion. Three monthly intervals during the plant establishment period.

#### Date of final completion.

Benchmark definition based on remnant communities. Replicated measurements over time and comparative analysis with regard to the benchmark. Specialist consultant: Submit the name, qualifications including research papers and scientific

publication details, and contact details of the specialist monitoring consultant. **Replacement plants** 

#### Species: Provide written certification that all plant material is true to the required species and type.

1.4 Inspection Inspection: Give notice so that inspection of the contract area may be made at the following:

#### Date of practical completion

Three monthly intervals during the plant establishment period. Date of final completion.

#### Execution 2.1 General

Special instructions Priority: If instructed by the contract administrator, attend to certain areas and procedures as a priority. Obtain approval for additional costs before commencement of works.

### Reporting

Monthly report: Submit regular reports by the last Friday of each month: Of the general status of works

- Include soil test results as required for the fertilising programs. Plant replacement requirements.
- Incident reports: Report immediately verbally and confirm in writing any disturbance or incidence

affecting or likely to affect the day to day scheduling of works. Disruption of works by others

Other contractors: Make arrangements to work around the disturbance. 2.2 Planting works

requirement.

Insect and disease control

Planting: Ensure the general appearance and presentation of the landscape and the quality of plant material at date of practical completion is maintained for the full planting establishment period. Existing plant material: Maintain existing planting and grass within the landscape contract area as specified for the corresponding classifications of new grassland or planting. Replacements: Replace failed, dead and/or damaged plants at maximum 3 week intervals as necessary throughout the full plant establishment period.

Prune: To AS 4373 and as documented in the Pruning schedule.

### Fertilising

Period for treatment: Until the problem has been eliminated. Chemical spray: Apply outside of normal working hours.

Soil tests: Take samples from both planting beds and lawn areas and conduct tests. Fertilising: Base the fertilisation program on the soil testing results. Fertilise trees once every two years. Generally apply an all purpose fertiliser of N:P:K (Nitrogen:Phosphorus:Potassium) 10:4:6 at recommended rates. Alternatively apply 12 month slow release fertiliser at the manufacturer's recommended rate. Apply all purpose fertiliser to shrubs annually in two bands and cultivated into the soil 100 mm deep. Season: Fertilise shrubs and trees in September and March according to their seasonal growth

## SOIL SPECIFICATION

General comment on specifications:

Specifications:

1.2 Compost

Imported soil specified in this document is sand, not one of the highly organic landscape or planter mixes that are common in the landscape trade.

1. Materials to be sourced for construction Samples of all soil, organic matter and drainage layer screenings to be tested by an approved laboratory prior to supply. Final approval from the landscape architect is required before any of these

materials are installed. 1.1 Imported topsoil – sandy soil for placement above the pond liner in the the pond area This soil shall be a sand or loamy sand with <3% organic matter by weight. The landscape contractor shall not add any compost or organic matter to the soil without first seeking approval from the landscape designer of project manager

The soil shall have a saturated hydraulic conductivity of between 100 mm/hr and 200 mm/hr, as measured under compaction using the AS4419 method. Preference is given to a sand at the lower end of this range of drainage rates, to reduce water stress.

The soil used shall have a pH of between 5.5 and 7.5 and a maximum electrical conductivity of 0.6 dS/m (1:5 soil water extract). If required, the pH of the soil is to be corrected before delivery to the

If early plant growth appears to be suffering serious nutrient stress, top dress the trenches with Everris Sierrablen Flora (21:2:9) slow release fertilizer (source Garden City Plastics), (or equivalent Low P slow release fertilizer such as Osmocote Landscape Formula (21:2:6 + Mg and TE) at 40 g/sq

Any organic matter imported onto the site for soil amendment shall conform to the requirements for "soil conditioner – low P" in AS 4454-2012 Composts, soil conditioners and mulches, with available phosphorus (P) levels at less than 5 mg/L soluble and total P at < 0.1 % dry wt, both as measured by the methods described in the standard.

2.0 Amelioration of site soil (most likely exposed site subsoil) for planting a. Remove soil material to a depth of 100 mm below final grade. b. Spread composted soil conditioner (to AS4454 – low phosphorus) to a depth of 100 mm. c. Depending on the size of the area being prepared, use either a small excavator with bucket, or a

spade, to "lift and drop" the soil in the planting area to loosen it and to roughly incorporate the compost. Loosen to approximately 200 mm depth then gently firm to level the surface for planting. Expect the soil level to drop over time. d. Ideally this loosening is to be done when the soil is no wetter than plastic limit (soil can be just rolled between thumb and forefinger) and preferably drier. In emergency, it can be used on wetter soil. Do not work over decompacted areas.

e. The size of the garden beds sets the size of the cultivated area. f. After planting, apply Everris Sierrablend Flora (21:2:9) slow release fertilizer (source Garden City Plastics), (or equivalent Low P slow release fertilizer such as Osmocote Landscape Formula (21:2:6 + Mg and TE) (Bunnings) at 80 g/sg m.

Ideally, this fertilizer should be applied to the soil surface prior to any mulch application. 3.0 Subsequent Fertilizer Use Tree and Shrub Plantings.

The slow release fertilizer listed above should be reapplied at 80 g/m2 12 months after planting. Subsequent fertilizer use is to be determined based on landscape condition and plant appearance. There may be alternative fertilizer materials that could be used instead of the products listed above. The use of alternatives will require reassessment of the rate and frequency of applications.

	-						
	Qty	Common Name	Botanical Name	Scheduled Size M	ature Height Mat	ture Spread Rem	narks
	5 2	Golden Wattle Drooping She-oak	Acacia pycnantha Allocasuarina verticillata	300mm pot	3 - 5m 5 - 10m	2.0 - 3.5m 6 - 10m	
+	11 5	Hedge Wattle Bitter Bush	Acacia paradoxa Adriana quadripartita	tubestock	1.5 - 3m 1.50 - 3m	0.9 - 1.2m 1.2 - 2.0m	
	2 62	Coastal Beard-health Coastal Daisy	Leucopogon parviflorus Olearia axillaris	150mm pot tubestock	0.45 - 0.60m 0.9 - 1.5m	0.3 - 0.6m 0.9 - 1.2m	
Сс	60 <b>overs</b>	Matted Pea Bush	Chrysocenhalum seminannosum		0.0 - 0.3m	2.0 - 3.5m	
	29 99	Rounded Noon Flower Native Storksbill, Wild Geranium, Coast	Disphyma crassifolium al Geranium Pelargonium australe	tubestock 140mm pot	0.43 - 0.80m 0.0 - 0.30m 0.3 - 0.45m	1.2 - 2.0m 0.0 - 0.3m	
	30 130	Bower Spinach Native Violet	Tetragonia implexicoma Viola hederacea	tubestock tubestock	1.50 - 3m 0.0 - 0.3m	0.0 - 0.3m 1.2 - 2.0m	
\$ 	21	Speargrass	Austrostipa flavescens	tubestock	0.45 - 0.6m	0.3 - 0.6m	
	9 250	Coast Sword Sedge Spiny-headed Mat-Rush	Lepidosperma gladiatum Lomandra longifolia	tubestock tubestock tubestock	0.75 - 0.911 0.9 - 1.5m 0.75 - 0.9m	0.0 - 0.311 1.2 - 2.0m 0.9 - 1.2m	
S	21	Tussock Grass	Poa labillardieri	tubestock	0.75 - 0.9m	0.6 - 0.9m	
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#### PLANT ESTABLISHMENT AND MAINTENANCE CONT.

Stakes and ties Generally: If plants are unable to be self-supported or if stakes are damaged, stake or restake the plants as follows:

Drive three hardwood stakes placed obliquely with the first stake on the opposite side to the prevailing winds. Do not single stake large plants. Removal: If plants are robust with well developed systems and are strong enough to no longer

require support, remove stakes and ties 2.3 Garden beds

Weeds: Unwanted plants and grasses considered invasive to the locality.

Lawns: Quarterly, and as determined by the relationship of the general lawn condition and Trees and shrubs: As required for planted, paved and mulched areas to be weed free when observed at bi-weekly intervals

Method: Clear and keep clear vigorous ground covers 200 mm from the base of any shrub or tree: Small areas: By hand. Large areas: Proprietary herbicides

Herbicide application: Avoid windy days or if rain is likely to follow within 12 hours. Apply: To the manufacturer's instructions and Safety Data Sheets. When the weather is humid with moderate temperatures and maximum sunlight. When the ground has recommended soil moisture.

Rubbish removal Rubbish: Remove loose rubbish such as bottles, papers, and cigarette butts from the site. Execute this work regularly so that all areas are free from rubbish when observed at bi-weekly intervals.

Leaf litter: Remove from all path and lawn areas. Mulched surfaces

Inspection: Bi-weekly to determine mulch requirements. Depth: Maintain a minimum depth of:

> 75 mm for organic mulch. 50 mm for gravel mulch.

Weeding

Program

weed growth

Weed mats

Mowing

Establishmen

Water quality:

2.5 GRASS AREAS

Remulching: Maintain the original ground levels around the base of plants. 2.4 Control measures

Generally: Maintain mats in a weed free condition and reinstate missing or damaged mats to the standard previously specified until completion of the plant establishment period.

Rabbit control Generally: Implement rabbit control until the completion of the plant establishment period. Rabbit guards: Maintain rabbit guards in a working upright and taut order with three stakes. Replace missing or damaged guards with the same materials as previously specified. Removal: At the completion of the plant establishment period.

Establishment mowing:

Mow to 35mm heoght 6 weeks after seeding to establishe lawn Maintenance mowing

Mow to min 40mm height monthly over winter and fortnightly over summer growth periods

**Pruning** General: Cut back tree and shrub growth to road verges to on/off ramps, and around emergency telephones and signs as required to achieve clear sight distances when viewed from a minimum of 100 m along roadway. Cut back tree and shrub growth within fire reduction zones to minimise risk to adjoining properties.

2.7 Watering pH between 5.5 and 7.5.

Total soluble salts less than 1000 mg/litre. No substances that would be toxic to plant growth.

Watering program: Minimum three complete waterings, soaking to a depth of 150 mm at fortnightly intervals for the first 6 weeks of plant establishment irrespective of natural rainfall. Confirm soaked depth and record in the log book 6-62 Weeks - water to be sufficient to ensure plant growth is healthy, and free of water stress (dry or Water restrictions: Coordinate the water supply and confirm the watering regime against state and territory government legislation and restrictions at the time.











3 CONCRETE FINISH CD05 Scale: 1:10



7 MULCHED GARDEN BED ORGANIC CD05 Scale: 1:20









Break subgrade as far as possible without

75mm mulch/50mm toppings. App fertiliser as per soil spec.

> 300mm minimum depth specified.

Existing subgrade



Tree maximum height of tree when planted to be 1.0-2.5 metre

Set 2 no. 50x50x2400mm hardwood stakes vertically and 800mm into the ground. Ensure stakes are clear of the rootball and at least 200mm clear of any underground services.

Wrap 2 no. 50mm wide Hessian ties around trunk at approx 1/3 tree height. Nail to stakes enabling 50-100 mm lateral trunk movement.

Form a 50mm high berm to create a watering basin.

Mulch: 75mm. Taper mulch down to max 30mm depth over top of rootball. Ensure mulch is kept clear of trunk and top of rootball is flush with finished level of planting hole. Apply fertiliser as per soil spec.

Excavate a shallow planting hole approximately 4 times the width of the rootball with sloping sides (1.2m min). Where possible, pre-rip the subgrade. Break edges to side of hole a minimum of 100 mm. Ensure rootball is scored and dense roots removed particularly from the base. Backfill with soil as specified.

## Existing sub-grade.

Base to be slightly mounded. Ensure rootball is not planted into a depression in the subsoil. Compact under rootball to prevent settling



Revision Date Issue Note PRELIM 07.08.20 PRELIMINARY T1 07.10.20 PRELIMINARY

drawing title PLANTING SCHEDULE AND NOTES

project QUEENSCLIFFE COMMUNITY HUB at HESSE ST QUEENSCLIFF for KTA datedrawn by19.06.20SEscaleprojectNTS279

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## FOR CONSTRUCTION

# URBAN FURNITURE

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