Department of Communities

LANDSCAPING DESIGN BRIEF

Landscaping Design Guidelines for Single and Grouped Dwellings 2020

REV. DATE	COMMENTS

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Preface

Introduction

This Landscaping Design Brief has been developed by the Western Australian Department of Communities, Housing for landscaping works on Single and Grouped housing projects delivered by the Department of Communities, Housing. This Landscaping Design brief outlines requirements and suggested design practices for the landscape design of Single and Grouped housing projects.

The Landscaping Design Brief is to be read in conjunction with:

- > Landscaping Technical Brief and/or Landscaping Technical Brief for Design and Construct Projects as relevant to the project
- > the Landscaping Specification documents

As well as all the relevant planning policies, including:

- > Local Government Authority policies relating to tree preservation and landscaping.
- > SPP 7.3 Residential Design Codes Volume 1.

Please also note this document references terminology and dimensions contained in SPP 7.3 Residential Design Codes Volume 2 – Apartments to provide tree planting guidance for residential settings.

All advice herein is intended as a guide only to assist the design of landscaping on development sites. A person or agency suitably qualified in landscape design and/or arboriculture should be consulted where relevant on projects to ensure the landscape design thrives and does not present a danger to structures and services nearby.

How to use

This document contains four (4) main section and two (2) appendices.

Sections **1. Trees**, **2. Planting** and **3. Maintenance and Watering** identify the main objectives of this brief. They outline design requirements as well as identify relevant design guidelines that can be implemented to satisfy both the requirements (mandatory) and desirable outcomes described in this document.

The diagrams and tables in section **4. Landscape Strategies** provide suggestions on how to design landscaping to improve different areas of a development site and create attractive dwellings and neighbourhoods. This section identifies three (3) main areas: common driveway and parking bays, the public domain, and dwellings. For each section, a table describing landscaping strategies and relevant plant categories appropriate for the landscaping of each area is provided. Suggested plant species for each plant category are identified in section **5. Plant Selection Guide.** Other species that meet the objective of each plant category may also be used.

The two (2) appendices are: Appendix **A. Definitions** and Appendix **B. Landscaping Plan Submission Criteria**.

Reference documents

> Western Australian Organism List – Department of Primary Industries and Regional Development –

A database to identify plants that are prohibited under the Biosecurity and Agriculture Management Act 2007

Useful Resources

> Waterwise Plant Selection feature - Water Corporation Website

Plants should have a favourable Waterwise rating, with an exception made for plants in the 'Productive' category.

> Select the Right Tree brochure – Water Corporation Website

Guidelines on how far to locate specific tree species from sewer lines.

> Suburb Selector - Apace Nursery Website

Suburb selector provides a site-specific endemic plant list for the Perth region.

Useful Abbreviations

Department of Communities, Housing (Communities)

Local Government Authority (LGA)

Deep Soil Area (DSA)

Rootable Soil Zone (RSZ)

Tree Canopy Coverage (TCC)

Urban Tree Canopy Coverage (UTCC)

1. Trees

Objectives

0.1

Increase the number of trees and shading areas on development sites to reduce the urban heat island effect and meet Local Government Urban Tree Canopy Coverage targets.

0.2

Provide shaded and attractive streets within neighbourhoods to encourage walking and cycling.

Design Requirements

DR.1

A minimum of three 45L trees must be provided for each dwelling on a development site.

Note: Some development sites may require more trees to meet Design Guideline 1a.

DG.1 Design Guidelines

- **a** Tree selection, number, and planting location should be designed to provide a tree canopy that will cover a minimum 20% of the development site when mature¹ (Tree Canopy Coverage, TCC²). Where an LGA has nominated an Urban Tree Canopy Coverage target for the locality, the higher of the TCC targets should be met.
- **b** All trees planted on the development site and associated verge areas must have a minimum 45L bag size and a minimum height of 1.5m at time of planting. Always consult relevant LGA landscaping policies to make sure any additional and/or alternative requirements are met.
- **c** Where a tree in a bag larger than 45L is required by an LGA or other relevant authority, one tree in a 90L bag will be accepted as a substitute for three 45L trees.
- **d** Where the development verge does not have existing trees, new trees should be planted to provide shading to pedestrian footpaths and roads. Always consult with LGA with regards to their planting requirements.

 $^{^{}m 1}$ Size at maturity should be nominated by a knowledgeable source such as a plant nursery.

² Please refer to Appendix A for definition and guidance on calculating tree canopy cover.

2. Planting

Typologies, Deep Soil Areas, Dimensions and Paving

Objectives

0.3

To support local ecology and biodiversity through endemic and bird/insect attracting species.

0.4

To ensure trees are planted in appropriate Deep Soil Areas and suitable distances from built structures so they will provide large canopies at maturity.

Design Requirements

DR.2

Each development must provide a variety of species nominated in the Species Selection Guide (or suitable alternatives) which must include endemic plants as well as bird and insect attracting species.

DR.3

The following are not permitted as part of the landscaping on development sites:

- > Use of species listed on the Western Australian Organism List (WAOL) database declared 'pest (S22)' or 'pest prohibited (s12)' under the Biosecurity and Agriculture Management Act 2007 (BAM Act).
- > Synthetic turf.

DG.2 Design Guidelines

- **a** All trees planted on site should be within required Deep Soil Areas to ensure healthy growth as set out in Design WA, State Planning policy 7.3.2.
- b Wherever possible, the distance between the tree trunk and roofline or wall of dwelling should be large enough so that the tree does not grow into or above the roof or wall when it achieves full height and width. Trees are not permitted to be planted closer than the following distances to building foundations, fences, and roof lines:
 - > Small Tree 0.6m away from structure
 - > Medium Tree 1.8m away from structure Large Tree – 3m away from structure
 - >See Table 3.3b Tree Sizes in SPP 7.3 Volume 2 – Apartments for tree size definitions.
- **c** For housing where the Department of Communities will be responsible for long-term maintenance (not just prior to sale), trees should be planted so their final growth size will not grow over roofs to reduce future maintenance
- **d** Any paving required within a DSA area should be permeable to allow water infiltration into the soil for healthy root growth. Permeable paving should not cover more than 20% of the DSA for each tree, wherever possible.
- **e** The use of permeable paving must not interfere with the provision of safe pedestrian paths throughout the site, such as those required by the *Livable Housing Design Guidelines* or other requirement as nominated by the Project Manager.

3. Maintenance and Watering

Objectives

0.5

To ensure landscaping in common property is suitable for intended type of strata management.

0.6

To ensure that planting choices are low maintenance and waterwise.

DG.3 Design Guidelines

- **a** For all housing types, consider landscaping verges with lawn alternatives such as low growing, waterwise plants that do not require ongoing irrigation.³
- Ensure selected tree species are planted at an appropriate distance from sewer lines located in or adjacent to the development site to reduce likelihood of infrastructure damage.
 - Please refer to "Select the Right Tree" Water Corporation website in the Useful Resources section for more information.
- **c** For Grouped dwelling sites where a Strata company will not be established (typically sites with five (5) units or less):
 - 1. Locate new and retained trees only on private property wherever possible;
 - Consider selecting evergreen species for trees that will overhang the Common Property area to reduce leaf litter volume;
 - 3. Consider providing evergreen, low-maintenance shrubs that require no watering by a reticulation system once established in Common property and verge landscapes wherever possible.³

8

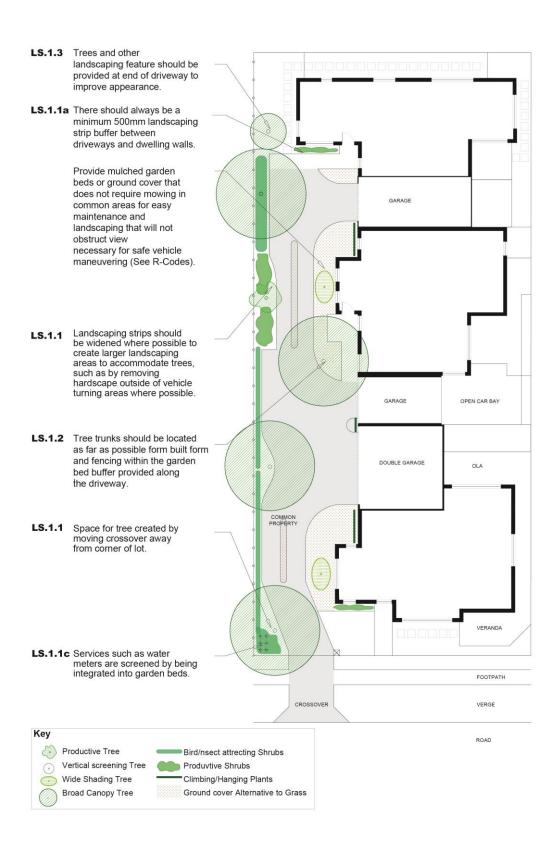
³ Note: Always consult relevant LGA policies for specific verge landscaping requirements.

4. Landscaping Strategies

LS.1 Common Driveway and Parking Bays Location Landscaping Strategy Plant Categories* a A landscaping strip of minimum 500mm width should be 1.1 Landscaping strip provided as a buffer between the driveway, walls of **Shade Trees** dwellings, and fencing, with an exception made for areas hetween driveway and where driveway must be re-routed closer to structure to Small ornamental fence create larger Deep Soil Areas. trees **b** Where appropriate to the size of the development, consider Bird-attracting increasing the depth of the landscaping strip between plants driveway and fence to accommodate large trees and shrubs to shade the driveway. This may be achieved by: Vertical screening plants > Removing hardscaping that is outside of vehicle turning areas wherever possible. Climbing plants > Moving crossovers away from corner of lot to create space for mature tree and dense low landscaping in lot corner. **c** Wherever possible, locate services such as water meters and power domes in the common landscaping strip beside the driveway. Integrate them into garden beds with landscaping at an appropriate height to screen them from view. 1.2 **a** Consider landscaping these areas with low-maintenance **Shade Trees** Landscaping areas plants that do not obstruct views for vehicles manoeuvring on between driveway site, such as: and dwellings **Productive plants** > Ground cover that does not require mowing. visible from > Low-growing plants in mulched garden beds. Common Property Bird-attracting > Trees that only have foliage above the required sight lines. plants 1.3 a Consider providing attractive feature landscaping such as a tree Shade Trees End of driveway and low shrubs at the end of a common driveway to improve appearance of the development from the street and as people Small ornamental enter the site. trees Bird-attracting plants 1.4 **a** Consider using tall-growing plants to create a visual screen **Shade Trees Open Car Bays** between open car bays and adjacent rooms or outdoor and Visitor Car spaces, especially outdoor living areas. Bird-attracting Bays plants Consider including a landscaping strip at the end of an open car bay to make the area more attractive and to function as buffer Shrubs between car bays and dwellings. **c** Hardscaping can be replaced with low-growing landscaping in the last 600mm of a car bay where the body will overhang a wheel stop or is otherwise prevented from travelling further.** **Refer to AS 2800 for relevant dimensions.

^{*} Refer to Section 5. Species Selection Guide for more details

Common Driveway and Parking Bays

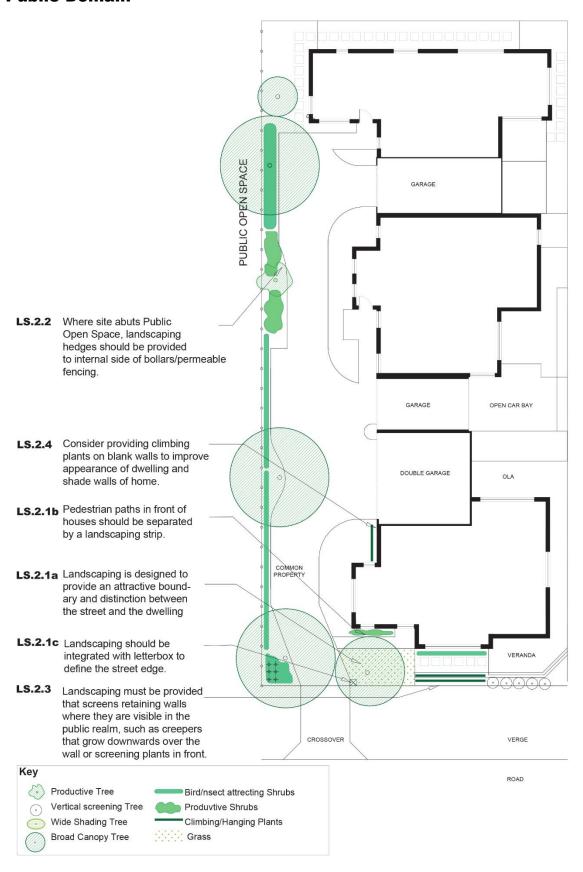


Please NOTE this diagram is intended to illustrate a variety of situations for reference only, and should not be considered a suitable landscaping plan for a development site.

LS.2 Public De	omain	
Location	Landscaping Strategy	Plant Categories*
2.1 Front verge and street interface	a Concentrated tree planting is encouraged at the front lot boundary in order to:	Shade Trees
	> Locate trees where the risks of roots harming the built infrastructure are less than other areas of the site > Increase likelihood of tree retention if site is	Small ornamental trees
	redeveloped in the future > Provide shade to footpaths and public domain.	Bird-attracting plants
	b Landscaping is designed to provide an attractive boundary and/or distinction between the public domain and the dwelling site.	
	c Pedestrian paths in front of dwelling walls should be separated from walls by a landscaping strip of minimum 500mm width.	
	d Landscaping should be co-located with letterboxes to define the lot boundary and provide attractive feature of the dwelling.	
2.2. Lot boundaries	Where site abuts public domain areas such as Public Open Space (POS) or Public Access Way (PAW), provide	Shade Trees
abutting public space	landscaping to the internal side of bollards or other permeable fencing to create an attractive buffer between	Productive plants
Space	site and POS/PAW.	Bird-attracting plants
		Shrubs and ground cover
2.3 Retaining walls	Consider providing landscaping to improve appearance of retaining walls where they are visible in the public domain,	Cascading plants
-	such as through use of plants that grow downwards over wall or upright screening.	Vertical screening plants
2.4 Blank walls	Consider providing plants that will grow to cover blank walls to provide attractive shading to dwellings.	Vertical screening plants
DIATIK WAIIS		Climbing plants

^{*} Refer to Section 5. Species Selection Guide for more details

Public Domain

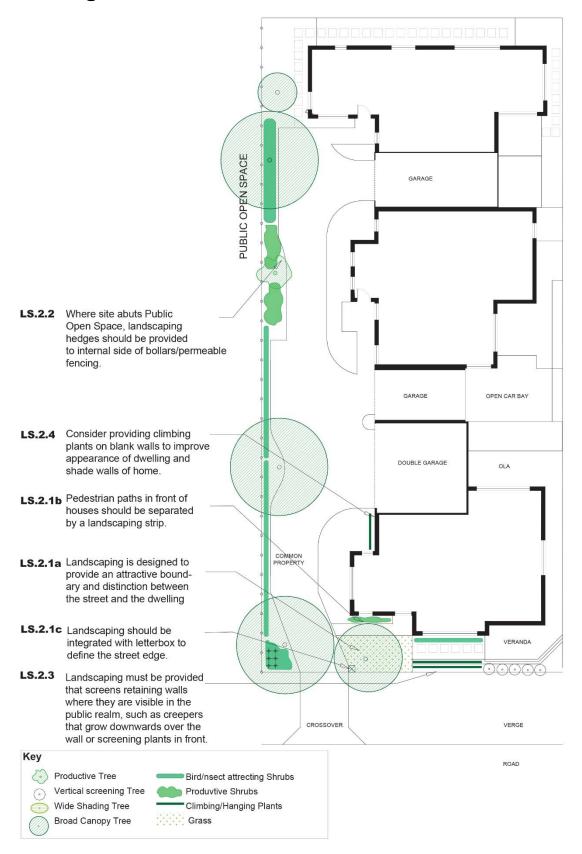


Please NOTE this diagram is for reference only and indicates possible locations and types of plants only. For calculation of DSA and TCC please refer to Appendix A.

LS3. Dwelling	s	
Location	Landscaping Strategy	Plant Categories*
3.1 Windows	a Consider shading east and west facing windows with shrubs, creepers, or trees to reduce heat loads on the building. Deciduous varieties will allow heat gain in winter to warm the home.	Shade Trees Small ornamental trees
	b Where windowsills are 6c above FFL, or lower, consider providing a landscaping strip in front to create an attractive outlook from the room.	Productive plants
	c Consider providing an outlook to landscaping from all windows to habitable rooms where possible, such as:	Bird-attracting plants Vertical screening plants
	> Tall-growing plants visible from highlight windows > Climbing vines on opposite fencing or walls	Climbing plants
3.2 Outdoor Living Areas	a Grass alternatives should be considered in areas where potential space for grass is restricted and not providing it will remove the need to use a lawnmower on the dwelling property.	Ground covers Vertical screening plants
	b Outdoor living areas that are directly connected to the street boundary are preferably set behind a fence and landscaping strip of a minimum depth of 500mm with planting capable of screening the area from clear view from the street.	Climbing plants
	Refer to DoC Single and Grouped Housing Brief: Fencing for more details	
3.3 Lot Boundaries	Tree planting is encouraged along lot boundaries and especially in corners to provide a larger area for canopy spread and to locate trees where they will be easy to retain if the site is redeveloped in the future.	Shade Trees Small ornamental trees

^{*} Refer to **Section 5. Species Selection Guide** for more details

Dwellings



Please NOTE this diagram is for reference only and indicates possible locations and types of plants only. For calculation of DSA and TCC please refer to Appendix A.

5. Species Selection Guide

SSG 5.1 Productive Plants

Productive plants are edible or produce parts that are useful to people in some way. Consider including them in Common Property areas of the site to create shared amenity and opportunities for neighbours to spend more time in common areas.

Please select productive plants which:

- > Produce edible/useful components
- > Are low maintenance, such as by:

Having fruit that is easy/quick to pick up off the ground Having fruit that will not stain Hardscaping where it is closely located Being self-fertile or have a suitable cross-pollinator provided on site Being hardy to insects and common weather conditions

Suggested species include:

Citrus × Limon Lemon tree	Punica Granatum Pomegranate tree	Asimina Triloba Pawpaw tree
Compact, strong growing with crinkled ornamental leaves and red new growth.	Compact, strong growing with crinkled ornamental leaves and red new growth.	A small tree with a pear-shaped form and glossy, almost tropical-looking leaves.
Environment: Full sun Soil: Soil needs to be well watered, well	Environment: Full sun Soil: Rich, friable (crumbly) soil	Environment: Susceptible to frost
drained, slightly acidic with no root competition.	Height: Deciduous shrub or small tree that grows between 5 and 8 m	and cold winds. Needs protection from frost damage.
Height: Large shrubs or small to moderate-sized trees, reaching 5–15 m	Flower: The flowers are yellow to bright red and 3 cm in diameter, with three to	Soil : Compost rich, free draining soil with regular food.
Flower: Small white flowers. Flower	seven petals.	Height: 5m
buds start appearing early in the winter season and bloom fully by late winter to early spring	Maintenance: Low	Maintenance: Low

Laurus Nobilis Bay tree	Citrus Australasica Finger Lime	Citrus Hystrix Kaffir Lime tree
Large shrub or small tree with aromatic, dark green leaves.	Thorny understorey shrub or small tree. thorns provide a perfect habitat for small birds.	Thorny bush, with aromatic and distinctively shaped "double" leaves well suited to container,
Environment: Full sun or part shade Soil . Moist, well-drained soil.	Environment: Full sun, partly shaded.	gardens and for large garden pots on patios, terraces.
Height: Reaching 3 to 7 m	Soil: Grow in a wide range of soils.	Francisco Cald
Flower: Small flowers are a pale, yellow green and borne in pairs beside a leaf. The fruit is small, black, shiny and has a 1 cm diameter. Maintenance: Low	Height: 6 m tall. Flower: White or pale pink and appear in late summer and autumn.	Environment: Full sun. Cold sensitive and need to be protected from frost. Soil: Well-drained soil Height: 2–11 m
iviantenance. Low		Maintenance: Low

Ficus Carica Fig tree

Large deciduous shrub to small tree with broad, rough, deciduous leaves.

Environment: Full sun. Reasonably drought tolerant.

Soil: All soil, free draining enriched soil **Irrigation:** Supplemental watering during hotter months.

Height: 1- 12 metres.

Olea Europaea Olive tree

Evergreen tree or shrub. It is short and squat trunk is typically gnarled and twisted. Perfect for small gardens or pots.

Environment: Tolerant to drought, frost and coastal conditions. Plant in

Soil: Favours well drained

Flower: Small, white, feathery flowers

Irrigation: No irrigation

Height: 2.5 m high by 2 m wide

Citrus × Aurantiifolia Lime tree

Small perennial evergreen with glossy leaves and compact size. Tree is irregularly branched and possesses sharp spines.

Environment: Full sun.

Soil: Sandy loam soil. Prone to rot in soil that does not drain well.

Irrigation: Well drained.

Height: 5m+

Flower: Small white flowers are usually borne in clusters.

Atriplex Nummularia Saltbush

A perennial species that is extremely hardy, thriving in particularly harsh environments. Grey-green irregularly shaped leaves, 2-3cm long, commonly toothed along the edges.

Environment: Grows predominately over the warmer months. Growth slows considerably once temperatures drop below 10°C.

Soil: Will grow on a range of soil types. It is tolerant to saline soils.

Irrigation: Once established old man saltbush is very tolerant of dry conditions.

Height: Grows to 3m in height and

diameter.

Salvia Rosmarinus *Rosemarv*

Woody, perennial herb with fragrant, evergreen, needle-like leaves and white, pink, purple, or blue flowers. used as an ornamental plant in gardens and for xeriscape landscaping.

Environment: Open, sunny position can withstand droughts, surviving a severe lack of water.

Soil: Loam soil with good drainage. Height: Upright form can reach 1.5 m. Flower: Plant flowers in spring and summer. Flowers are white, pink,

purple or deep blue.

Cymbopogon Citratus *Lemongrass*

Perennial fragrant herb. Good plant for growing in-ground as ornamental grass, or in containers.

Environment: Full sun
Soil: Rich, free draining soils.
Irrigation: Consistent moisture and water. Keep plants well-watered throughout the summer.

Height: Up to 2 m

Lavandula. L. Augustifolia Lavender

Silvery-green foliage, upright flower spikes and compact shrub-like form, lavender is ideal for creating informal hedges.

Environment: Full sun. **Soil:** Well-drained soil.

 $\textbf{Heigh}t: \hspace{0.1cm} 0.6\text{-}0.9 \hspace{0.1cm} m \hspace{0.1cm} high \hspace{0.1cm} x \colon \hspace{0.1cm} 0.6\text{-}0.9 \hspace{0.1cm} m$

wide

Flower: Lavender, deep blue-purple,

light pink, white.

Maintenance: Low.

SSG 5.2 Vertical Screening Plants

These plants can be used as screens to improve privacy of fencing or appearance of blank building elements, such as large areas of featureless walls or fencing.

Please select vertical screening plants which:

- > Are evergreen
- > Have dense growth to provide visual screen
- > Grows well in narrow garden beds (500mm)
- > Can be pruned without damage
- > Have fast to moderate growth

Suggested species include:

Maintenance: Requires little

maintenance can be pruned to maintain height and shape.

Murraya Paninculata Orange Jessamine	Viburnum Suspensum Sandankwa Viburnum	Viburnum Odoratissimum Sweet Viburnum
Dense habit with glossy green foliage.	A hardy evergreen shrub with white flowers during Spring followed by	Fine leaf and short inter-node leaves. Reddish accented new growth.
Environment: Full-sun position to moderately shaded position.	orange red berries. An ornamental plant ideal for hedges, containers,	Pruning is less than common variety.
Height: 50cm -1m wide x 3m high Flower: White perfumed flowers in	borders or as a feature plant.	Environment: Full-sun position to partly shaded position.
Spring and Summer.	Environment: Full-sun position to partly shaded position.	Soil: Well-drained. Irrigation: Can tolerate dryness.
	Soil: Moist, rich well-drained.	Height: 3.5m high x 2m wide
	Irrigation: Keep well-watered in dryer months	Flower: NA
	Height: 3.5m high x 1.5m wide	
	Flower: White in Spring	

Acmena Smithii 'Sublime' Photinia 'Red Fence' Pittosporum 'Screenmaster' Sublime Lilly Pilly It is an evergreen Australia tree. Used Compact, strong growing with Upright growing shrub with good for screening and hedging if pruned crinkled ornamental leaves and red coverage. to shape. This plant has vivid lime new growth. green new growth which slowly **Environment:** Full-sun position to part darkens over time. **Environment:** Full sun to part shade shade **Environment:** Full sun to part shade **Soil:** All soil types Irrigation: Can Soil: All soils. Irrigation: Can tolerate Soil: in well drained to heavy clay tolerate dryness once established dryness. loam. Height: 2-3m high x 1m wide Height at maturity: 3-4m high x 2m Height: 2-3m high x 1m wide Flower: Small white flowers in mid to wide Flower: Small white flowers in late spring Flowers: NA summer Maintenance: Prune once a year or Maintenance: Medium. Trimming

required to shape and keep narrow.

twice for a tight hedge

Grevillea 'Kay Williams'	Grevillea Olivacea Olive Grevillea	Rhaphiolepis 'Springtime' Indian Hawthorn
Compact shrub or hedge screen. Bird	WA native with upright growing habit	A small evergreen shrub ideal for
attracting and long flowerings Fnvironment: Full sun in well-drained	and dense foliage. Bird attracting. Environment: Full sun in well-drained	hedging. Fnyironment: Full sun in well-drained
soil	soil	soil
Soil: All soils. Irrigation: Can tolerate dryness once established	Soil: All soils. Irrigation: Can tolerate dryness once established	Soil: Well drained soil. Irrigation: Can tolerate some dryness once established
Height at maturity: 3m high x 1.5m wide	Height at maturity: 2.5-4m high x 2.5-4m wide	Height at maturity: 1.5m high x 1.5m wide
Flowers: Pink-cream in winter/spring/summer	Flowers: Pink-cream in winter/spring/summer	Flowers: Pink flowers in spring Maintenance: Low
Maintenance: Medium. Prune for compact growth and for hedging	Maintenance : Low. Prune after flowering to maintain desired shape.	

SSG 5.3 Dwelling Shade Trees

These trees are small, deciduous trees for use outside of east and west windows to reduce solar heat gain to homes in warm months but allow it in cooler months when the tree will drop its leaves.

Please select dwelling shade trees which:

- > Have dense and low-growing canopy
- > Have attractive growth, such as flowers
- > Grow well when planted close to buildings or fences
- > Present low risk of harm to nearby structures

Some suggested species include:

Lagerstroemia Indica x L. fauriei 'Natchez Crepe Myrtle	Bauhinia Purpurea Purple Butterfly Tree / Orchid tree	Pyrus Nivalis Snow Pear
Upright multi-stemmed specimen tree with a broad spreading crown and masses of flowers. It has red-bronze	Medium sized orchid tree. Butterfly shaped leaf with only 2 broad leaflets.	Oval shaped, grey foliage with yellow autumn colours.
autumn foliage colour and exfoliating bark which reveals a pinkish-brown underbark.	Environment: Full-sun to partly shaded position. Soil: Best in moist well-drained soil, Height at maturity: 6-10m x 6m wide.	Environment: Full-sun position. Soil: moist & rich. Height at maturity: 10m high x 8m wide.
Environment: Full-sun to partly shaded position. Soil: Well-drained. Irrigation: Can tolerate dryness. Height at maturity: 5-6m x 5m wide. Flower: White crepe flowers in summer. Maintenance: Medium growth Lifespan: 50 - 100 years	Flower: Large purple/pink flowers in Autumn Lifespan: 25 -50 years	Flower: Abundant white flowers om racemes Root system: Non-invasive. Maintenance: Low Lifespan: 15 - 25years

SSG5.4 Broad Shade Tree

These trees provide shade to on-site hardscaping and the public domain to reduce temperatures around the home and urban heat island effect in the suburb.

Please select broad shade trees which:

- > Have good growth when planted close to buildings or fences
- > Present low risk of harm to nearby structures
- > Have a high branching point to accommodate cars and pedestrians beneath

Suggested species include:

us dark Graceful and pendulous style tree forming into an open rounded tree. The golden tips create a lovely l-sun contrast against a green background.
forming into an open rounded tree. The golden tips create a lovely
The golden tips create a lovely
9 ,
l-sun contrast against a green background.
ot frost
Environment: Full-sun to partly shaded
ls (pH 6.5-7). position.
er required in Soil: Well-drained. Irrigation: Can
tolerate dryness.
e. Height: 8-10m x 6-8m wide.
r with 5 Flower: NA
Maintenance: Low
uired in Lifespan: 100 - 120 years

Gleditsia	triacanthos	var.
Inermis 'S	unburst'	

Tristaniopsis Laurina Luscious Water Gum

Callery Pear

Graceful and pendulous style tree forming into an open rounded tree. New growth is a bright yellow, maturing to yellow green. Golden yellow in Autumn

Environment: Full-sun to partly shaded position.

Soil: Well-drained. Irrigation: Can tolerate dryness.

Height: 8-10m x 6-8m wide.

Flower: NA

Maintenance: Deciduous tree. Lifespan: 100 - 120years Shiny foliage with red coloured tipped new growth and yellow flowers with a sweet perfume.

Environment: Tolerates a wide range of soil and climate

Irrigation: Not suited to very dry climates or exposure to hot winds **Height:** 7-12m high x 5m wide

Soil: Light to heavy soils

Habit: Oval

Flower: yellow flowers late winter and

spring.

Root system: Non-invasive. **Maintenance:** Minimal. Pruning to

shape

Lifespan: 50 - 60 years

A vigorous, down-headed medium

Pyrus Calleryana Bradford'

sized tree.

Environment: Full-sun position.

Soil: Moist conditions preferred **Irrigation:** Adequate water required. **Height:** 10m high x 6 wide.

Flower: White flowers in early spring

Rate of growth: Moderate Lifespan: 20 - 25 years

SSG5.5 Small Ornamental Trees

These are small-growing trees that provide shade and interest in outdoor living areas with restricted space.

Please select small ornamental trees which:

- > Have a small growth habit
- > Have good growth when planted close to buildings or fences
- > Are attractive throughout the year
- > Present low risk of harm to nearby structures

Suggested species include:

Cercis Canadensis Forest Pansey	Pyrus Fauriei Korean Sun	Cercis Canadensis Roethgold Chain of Hearts
Purple elegant foliage. Open and low branching, forming a flattopped canopy. The young	A deciduous compact glossy leaved tree turning reddish orange + purple in autumn.	Golden-yellow to light green foliage with the most distinctive large, heart-shaped leaf. Tight habit which makes
branches have a distinct 'zig-zag' habit. Environment:	Environment: Full-sun position. Soil: Well-drained.	this a perfect tree for smaller sized gardens.
Soil: Well-drained. Irrigation: Water at install. Height at maturity: 3-5m high x 3-5m wide	Irrigation: Adequate water required. Height at maturity: 5m high x 4m wide. Habit: Upright Flower: White flowers in early spring	Environment: Full-sun to part-shade. Soil: Well-drained. Irrigation: Water at install. Height: 3.5m high x 3.5m wide
Habit: Oval Flower: Masses of small, pink, 'pea'- like flowers borne in groups along	Root system: Non-invasive. Maintenance: Leaf fall Lifespan: 50 years.	Habit: Oval Flower: Clusters of mauve flowers on bare branches in spring.
the branches before the leaves appear in spring. Lifespan: 20 - 50 years.	• ,	Lifespan: 20- 50 years

Lagerstroemia Indica x L.
Fauriei 'Acoma'
Indian Summer Crepe Myrtle

Lagerstroemia Indica x Fauriei 'Tonto' Crepe Myrtle

A tough, small tree for small gardens. Multi branching, low spreading, semi-pendulous branches.

Environment: Full-sun. **Soil:** Well-drained, slightly acidic soils.

Irrigation: Moderate drought and

heat tolerant.

Height: 4m x 3m wide.

Flower: White in summer to early

autumn.

Maintenance: Slow growth **Lifespan:** 50 years.

Tolerant of a wide range of site conditions, a large deciduous shrub to small tree, good for small spaces or containers.

Environment: Full sun position. **Soil:** Well-drained humus rich soil. **Irrigation:** Prefers moisture in dry periods

when young.

Height at maturity: 3m x 3m wide. **Flower:** Fuchsia red flowers in late

summer to mid-autumn.

Maintenance: Slow growth

Lifespan: 50 years.

SSG5.6 Bird and Insect Attracting Plants

These plants provide food and habitats to wildlife to support local biodiversity.

Please select Bird and insect attracting plants which:

> Provide foraging for a diversity of pollinator groups over the seasons

Note: To be effective, the same species of insect attracting plants should be planted in multiple areas throughout the site so different insect groups can collect from the plant at the same time.

Suggested species include:

Acacia Saligna Golden Wreath Wattle	Adenanthos Cuneatus Coral Carpet Jug Flower	Banksia Blechnifolia Prostrate Banksia
Prostrate fast-growing ground cover.	Ground cover features textured colourful foliage.	Dwarf spreading shrub with large pinkred flowers in spring to summer.
Environment: Full-sun to part-shade with free-draining soil Height: 30-40cm high x 3m wide. Maintenance: Low. Trim to contain	Environment: Full-sun to part-shade. Drought resistant. Soil: Sandy, Loamy, Sandy loam. Well drained. Height: 30-40cm high x 1.5-2m wide. Maintenance: Low.	Environment: Full sun or part-sun in well-drained, moist soil Height: 30cm high x 2m wide. Maintenance: Low
Banksia Nivea Honeypot	Calothamnus Quadrifidus 'Prostrate' One-sided Bottlebrush	Grevillea 'Red Coral' Grevillea
Small shrub with long foliage and orange flowers in winter and spring.	Suits coastal and windy positions. Re flowers in spring and summer.	Silver foliage on low growing, spreading plant. Red flowers in spring.
Environment: Sunny position in well-drained sand soil Height: 0.8m high x 0.8m wide. Maintenance: Low	Environment: Full-sun to part-sun with free-draining soil Height: 0.8m high x 2m wide. Maintenance: Low. Regular compost and fertiliser.	Environment: Full-sun with well-draining soil Height: 30cm high x 2m wide. Maintenance: Low. Fertilise every 6 months
Grevillea Crithmifolia (Prostrate) Green Carpet	Grevillea Obtusifolia <i>Gingin Gem</i>	Kennedia Prostrata Running Postman/ Scarlet Runner
Evergreen shrub with soft, silver- green foliage with white flowers in spring.	Spreading groundcover with red flowers year round.	Spreading groundcover with grey- green foliage and red flowers in spring.
Environment: Full-sun with well-draining Soil: Tolerates salty conditions Height: 30cm high x 2m wide. Maintenance: Low.	Environment: Full-sun with well-draining soil. Tolerates light shade and coastal conditions. Height: 30cm high x 2m wide. Maintenance: Low.	Environment: Full-sun to part-shade Soil: with well-draining soil. Loamy, Sandy loam, Clay loam. Height: 10cm high x 3m wide. Maintenance: Low. Prune to desired size.

Adenanthos Sericea Compact

Dwarf Wooly Bush

Dwarf woolly bush with silver/green woolly soft foliage. Red flowers in spring.

Environment: Full-sun to part-shade **Soil:** free-draining sandy poor soil. Well drained soil

Height: 1m high x 1m wide.

Maintenance: Low

Melaleuca Huegelii Chenille Honey Myrtle

Upright shrub with fine foliage and white flowers in spring and summer. Medium to tall shrub. Planting in a group as a windbreak, shelter or barrier in wider verges, median strips.

Environment: part shade **Soil:** Clay, Loam, Sand

Height: 1.5m high x 2-4m wide.

Maintenance: Low

Scaevola Purple Fanfare *Fan Flower*

Flat growing groundcover with purple flowers all year. Low and spreading, ideal for mass planting and underplanting around shrubs.

Environment: Sun to light shade **Soil:** most soil types. Well drained soil. **Height:** 0.2m high x 1.5m wide.

Maintenance: Low

Scaevola Crassifolia Prostrate

Cushion Fan Flower

A fast spreading ground cover with bright green foliage and masses of blue fan shaped flowers in autumn, spring and summer.

Environment: Sun to light shade **Soil:** Most soil types. Well drained soil.

Height: 0.5m high x 2m wide.

Maintenance: Low

SSG5.7 Additional Shrubs and Ground Covers

These plants should be used to provide landscaping that is attractive and diverse across different housing sites developed by Communities.

Please choose additional shrubs and ground covers which:

- > Are robust and long-living
- > Have a low waterwise rating

Suggested species include:

Anigozanthos Flavidus Evergreen Kangaroo Paws	Anigozanthos 'Dwarf Delight' Kangaroo Paws	Callisetmon Bottlebrush
It is a perennial herb, with evergreen leaves growing up to one metre long and two centimetres wide, forming	It is a perennial herb, with evergreen leaves growing up to one metre long and two centimetres wide, forming	Blue-green foliage with masses of red flowers in spring and autumn.
clumps up to two metres across.	clumps up to two metres across.	Environment: Full sun in all soils. Will tolerate dry periods and coastal
Environment: Full sun	Environment: Full sun	location
Soil: Adaptable to most soil types, from sandy to clay, and will even grow partly immersed, tolerating wet feet. Height: 2m high x 1m wide. Flower: Flowering occurs from November to February. The flowers are commonly green and yellow, but also occur in red, pink and orange Maintenance: Low	Soil: Adaptable to most soil types, from sandy to clay, and will even grow partly immersed, tolerating wet feet. Height: .8m high x 1m wide. Flower: Flowering occurs from November to February. The flowers are commonly green and yellow, but also occur in red, pink and orange Maintenance: Low. Fertilise in autumn and spring.	Height: 1m high x 1m wide. Maintenance: Low
Convovulous Cneorum	Conostylis Candicans	Correa Backhouseana var.
Silverbush or Shrubby Bindweed	Cottonheads	Coriacea West Australian Correa
Trailing Mediterranean ground cover, perennial with soft velvety silver leaves and pure white morning glory	Perennial plant. Grey-green foliage with small clusters of yellow flowers.	Grey foliage with yellow flowers in winter and spring. hardy plant that is useful as a screening plant or along
flowers. rockeries and hanging baskets, mass planting for	Environment: Full sun to part-shade Soil: Sandy, Loamy, Sandy loam,	fence lines
groundcover, accent colour.	Potting mix, Poor soil Height: 0.3-0.8m high x 0.3-0.8m wide.	Environment: Full sun to part-shade Soil: All soils
Environment: Full sun Soil: Free-draining soil, even poor and dry spots Height: 0.5m high x 0.6-1m wide. Maintenance: Low	Maintenance: Low	Height: 1m high x 1m wide. Maintenance: Low

Dianella 'Breeze' *Blue Flax Lily*

Tasman Flax-lily

Eremophila Glabra 'Kalbarri Carpet' Tar Bush

Cascading dark green foliage and blue flowers in spring followed by rich purple berries. Suited for erosion control, mass plantings and under storey plant for both dense and light tree plantings.

Environment: Full Sun, Part Sun, Shad can tolerate excessive dry and wet

Soil: Well drained soils. **Height:** 0.6m high x 0.6m wide.

Maintenance: Low

conditions

Green and red wide strappy leaves with blue flowers in spring and large purple berries in spring and summer. Suitable for mass plantings, low water gardens, and accent planting

Dianella Tasmanica 'Tasred'

Environment: Full Sun, Part Sun, Shad can tolerate excessive dry and wet conditions.

Soil: Well drained soils. **Height:** 0.45m high x 0.5m wide.

Maintenance: Low

Ground cover shrub, with dense soft grey foliage and beautifully contrasting yellow-gold flowers. Main flowering is in spring and summer, with spot flowers in winter and autumn.

Environment: Full Sun, Part Sun. Soil: Sandy, Sandy loam, Clay loam, Poor soil. Dry, Well-drained Height: 0.1-0.2m high x 1-2m wide.

Maintenance: Low

Eremophila Glabra 'Blue Horizon'

Low growing groundcover with bluegrey foliage with yellow flowers in winter.

Environment: Full sun to part shade **Soil:** Well-drained soils **Height:** 0.25m high x 1m wide.

Maintenance: Low

Grevillea Olivacea 'Apricot Glow' Olive Leaf Grevillea

Dense, deep-green foliage with spiderlike glowing apricot flowers from spring through to late winter.

Environment: Full sun **Soil:** All soils

Height: 2.5-4m high x 2.5-4m wide.

Maintenance: Low

Grevillea Olivacea 'Red' *Olive Leaf Grevillea*

Dense, deep-green foliage and displays a profusion of spider-like red flowers produced for an extended period from winter through to late spring. Suitable for mass plantings and a screening

Environment: Full Sun, Part Sun

Soil: All soils

Height: 2.5-4m high x 2.5-4m wide.

Maintenance: Low

Hibbertia Scandens *Guinea flower*

Vigorous climber or scrambler with flowers. Will climb trees and fence if planted next to them.

Environment: Full-sun to partly shaded position.

Soil: Sandy, Clay, Loamy, Sandy loam, Poor soil.

Irrigation: Frost & Drought tolerant Height: .5-3mm high, 1-5m wide Flower: Yellow flowers in winter and

spring

Maintenance: Low. Hardy & require

annual pruning

Liriope Muscari 'Lirj' Just right Lily turf flower

Dark green strappy foliage with white to lilac flowers in spring. Roadsides, mass plantings, feature plantings and gardens.

Environment: Full sun, light to heavy shade. Tolerates heat and frost.

Soil: sandy to clay soils. **Height:** 0.5m high x 0.5m wide. **Maintenance:** Very low

Leucophyta Brownii 'Silver Nugget' Dwarf Cushion Bush

Tight compact mound of silver-grey foliage. is a hardy and adaptable plant which is well suited to rockeries, borders and ideal for coastal landscape

Environment: Full Sun, Part Sun.it is both drought and frost tolerant

Soil: well drained soils

Height: 0.5m high x 0.5m wide.

Maintenance: Low

Lomandra Fluviatilis Shara

Lomandra 'Tanika'

Lomandra Longfolia 'Nyalla'

Tidy, compact form of Lomandra, which is very hardy and drought tolerant. Ideal for erosion protection on banks. Perfect used as a border plant and around rockeries.

Environment: Full sun **Soil:** Tolerates most soil types. **Height:** 0.m high x 0.5m wide.

Maintenance: Low

Evergreen native grass. Compact leaf form with soft fine leaves and small yellow flowers that blossom in spring. Ideal for borders, specimen or mass planting.

Environment: Full sun and low sun. **Soil:** Tolerates most soil types **Height:** 0.6m high x 0.6m wide.

Maintenance: Low

Narrow, strappy blue toned leaves with striking yellow flowers in spring. Great for rockeries, embankments, borders and specimen planting.

Environment: Full sun to partly shaded. Tolerates coastal conditions. **Soil:** sandy, loam and free-draining

clay loam soils.

Height: 0.8m high x 0.8m wide.

Maintenance: Low

Myoporum Insulare Coastal Carpet

Low spreading ground planting with clean foliage.

Environment: Full-sun to light shaded position. Coastal

Soil: All soils. Irrigation: Can tolerate dryness.

Height: 20cm high x 1m wide **Flower:** Small white flower from winter

to summer.

Maintenance: Low

Myoporum Parvifolium *Dwarf Native Myrtle*

A prostrate cascade planting with clean foliage.

Environment: Full-sun to light shaded position.

Soil: Well-drained. Irrigation: Can tolerate dryness.

Height: 10cm high x 1m wide

Flower: White flower in Spring/Early

summer.

Maintenance: Low

Olearia Axillaris Coastal daisy bush

A tough evergreen shrub with dense, small, grey white foliage which is highly ornamental This plant is superb for hedging and foliage contrast, especially in coastal and exposed gardens.

Environment: Full-sun. Tolerates coastal exposure, strong winds, **Soil:** Well-drained soil. Tolerates salty or poor soils and extended dry periods.

Height: 1-2m high x 1-2m wide **Maintenance**: Low. Trim if needed

Westringia Fruticosa 'Mundi'

Hardy groundcover with white flowers on grey-green foliage. Can be left unpruned whilst still maintaining a tidy form or can be pruned into any low growing architectural shape. Ideal for tough roadsides or where you need a low growing plant that requires minimal care. Tough enough to live on natural rainfall.

Environment: Full-sun to semi-shade

Soil: Well-drained soils **Height:** 0.4m high x 1.5m wide.

Maintenance: Low

Westringia Fruticosa 'Low Horizon"

Dense and compact plant with grey green foliage and white flowers. Ideal low hedging choice for dry areas.

Environment: Full sun to part shade Soil: Well-drained soils Height: 0.3m high x 0.7m wide.

Maintenance: Low

Rhaphiolepis Sp. Indian Hawthorn

Small, low-maintenance shrub or ground cover. This shrub is an evergreen with a dense mounded or round shape. The foliage is clustered at the ends of numerous branching stems, helping this plant to achieve its dense appearance.

Environment: Full sun to part shade **Soil:** Can tolerate sandy soil and salt spray, making it appropriate for coastal plantings.

Height: 1–1.5 m high **Flower:** White or pink, 1–2 cm diameter, The fruit is a small pome 1– 2 cm diameter, ripening dark purple to black

Maintenance: Low

Pimelea Ferrugina **Philodendron Xanadu** Rice Flower Xanadu Compact perennial shrub with glossy Lush, compact, tidy growth with foliage with pink flowers in spring and glossy lobed leaves. Great as an summer. A great feature plant for understory filler or mass planted in rockeries, borders or pots. feature gardens or borders. Environment: In full sun or part shade **Environment:** Full sun to part shade **Soil:** Loamy, Sandy loam, Potting mix Soil: Well drained soils Height: 1/1.2m high x 0.7/1m wide. **Height:** 0.5-0.9m high x 0.5-0.7m Maintenance: Low wide. Maintenance: Low

SSG5.8 Climbing plants

These plants are grown on trellises or pergola structures to create attractive cover for fencing, blank walls, or overhead structures such as the edge of alfresco covers.

Please choose climbing plants which:

- > Are evergreen
- > Grow on supports such as trellises, wires and similar
- > Do not mark or damage in any way surfaces and structures they come into contact with

Suggested species include:

Hardenbergia Comptoniana Native Wisteria	Hibbertia Scandens Guinea Flower	Pandorea Pandorana Wonga Wonga Vine
Vigorous climber with green divided leaves. Will climb trees and fence if planted next to them.	Vigorous climber with flowers. Will climb trees and fence if planted next to them.	Fast growing native climbing plant.
Environment: Full-sun to partly shaded position. Soil: Well-drained. Irrigation: Frost & Drought tolerant Height: 2-3m high, 2m wide Flower: White flowers in winter and spring Maintenance: Low. Hardy & require annual pruning	Environment: Full-sun to partly shaded position. Soil: Sandy, Clay, Loamy, Sandy loam, Poor soil. Irrigation: Frost & Drought tolerant Height: .5-3mm high, 1-5m wide Flower: Yellow flowers in winter and spring Maintenance: Low. Hardy & require annual pruning	Environment: Full-sun to part shade Soil: Well-drained. Irrigation: Can tolerate dryness Height: 3m wide Flower: Profusion of flowers in early spring Maintenance: - Low. Trimming required.
Pandorea Jasminoides	Trachelospermum	Mandevilla
'Lady Di' Bower Vine	Jasminoides Star Jasmine	'Opale Citrine' & 'Giant White'
		'Opale Citrine' & 'Giant White' Rocktrumpet
		White'
Bower Vine Medium sized vigorous, hardy climber	Star Jasmine An evergreen vine with thick glossy	White' Rocktrumpet Fast growing evergreen that will remain as a shrub in full sun, in shade
Medium sized vigorous, hardy climber with bright green foliage. Environment: Part sun	An evergreen vine with thick glossy leaves, with excellent coverage. Environment: Full-sun to partly shaded	White' Rocktrumpet Fast growing evergreen that will remain as a shrub in full sun, in shade with produce tendrils and climb. Ideal

SSG5.9 Cascading Plants

These plants can be used to soften to appearance of retaining walls or embankments with plants grown downwards from elevated garden beds.

Please choose cascading plants which:

- > Have a low waterwise rating
- > Present low risk of harm to nearby structures

Suggested species include:

Acacia Cognata Bower Wattle	Acacia Saligna Golden Wreath Wattle	Lomandra Hystrix Tropic Cascade
Lush foliage and compact weeping habit. Environment: Full-sun to part shaded position. Soil: Well-drained. Irrigation: Can tolerate dryness. Height: 50cm high x 1m wide Flower: White flower in Spring/Early summer. Maintenance: Low	Prostrate fast-growing ground cover. Environment: Full-sun to part-shade with free-draining soil Height: 30-40cm high x 3m wide. Maintenance: Low. Trim to contain	Weeping foliage compact form. Can handle periods of wet feet. It is a good erosion control option as it strengthens the soil 159%. Environment: Full-sun to part shade. Soil: Most soil types, prefer moist soil. Tolerates periodic inundation, not 5cm or more permanently Height: 60-80cm tall x 60-80cm wide Flower: Large fragrant yellow. Maintenance: Trim the foliage by 1/3 to reduce the overall height. This can be done in spring every 2/3 years. Fertilize after trimming.
Myoporum Parvifolium Dwarf Native Myrtle	Myoporum Insulare Coastal Carpet	Trachelospermum Jasminoides Star Jasmine
A prostrate cascade planting with clean foliage. Can tolerate dryness.	Low spreading ground planting with clean foliage.	An evergreen vine with thick glossy leaves, with excellent coverage.
Environment: Full-sun to light shaded position. Soil: Well-drained. Height: 10cm high x 1m wide Flower: White flower in Spring/Early summer. Maintenance: Low	Environment: Full-sun to light shaded position. Coastal Soil: All soils. Can tolerate dryness. Height: 20cm high x 1m wide Flower: Small white flower from winter to summer. Maintenance: Low	Environment: Full-sun to partly shaded position. Soil: Well-drained. Height: 20cm high x 3m wide Flower: Small perfumes white flowers in Spring/Early summer. Maintenance: Medium
Casuarina Glauca var. Cousin It	Grevillea Crithmifolia (Prostrate) Green Carpet	Hemiandra Pungens Alba Snakebush
Fine and cascade foliage.	Evergreen shrub with soft, silver-green foliage with white flowers in spring.	Evergreen. A prostrate cascade planting with green foliage and full cover.
Environment: Full sun to part shade positions. Soil: Well drained soils. Irrigation: Tolerates dryness. Height: 1m wide x 0.15m high Flower: Reddish brown terminal flower spikes	Environment: Full-sun with well-draining Soil: Tolerates salty conditions Height: 30cm high x 2m wide. Maintenance: Low	Environment: Full-sun to full shaded position. Coastal Environment Soil: Well-drained. Irrigation: Can tolerate dryness. Height: 20cm high x 2-3m wide Flower: White flowers Maintenance: Low

Russelia Equisetiformis

Firecracker

Multi-branching planting with arching stems.

Environment: Full-sun Soil: Moist to well drained. Height: 1.5m high x 4m wide Flower: Red tubular flowers

Maintenance: Low

SSG5.10 Ground Covers

These plants should be used to provide low maintenance alternatives to grass for use in low-traffic areas such as common property.

Please choose ground covers which:

- > Are Low-growing (<40cm) to maintain vehicle sight lines
- > Do not require mowing
- > Are suitable at least for very light traffic

Suggested species include:

Dichondra Repens Dianthus Sp. **Pratia Pendunculata** Kidney Weed Blue Star Creeper A groundcover that will spread and Dianthus is suitable for borders, rock A mat forming perennial with small create a lawn in cooler areas or in green leaves. Ideal between stepping gardens, container baskets, potted partly shaded gardens. Works well to stones. displays, and ground covers. fill gaps. Versatility and attractiveness to **Environment:** Full sun to part shade pollinators. Environment: Part sun to shade positions. Soil: Well-drained. Irrigation: Water Soil: Well drained solid **Environment:** Full sun. Frost tolerant wise once established Irrigation: Moist to wet soils Height: **Soil:** Tolerate droughty soil, requires Height: 10cm high x 30cm wide 5cm high x 50cm wide well drained soil. Prefers Slightly Flower: None Flower: White flowers in spring to Alkaline soil. Flower: Spice-scented blooms with autumn ruffled and toothed/fringed petals in shades and combinations of pink, red and white Maintenance Cut plants back by half after flowering. Allow seeds to develop and set before cutting if selfseeding is desired

Thymus Serphyllum Creeping Thyme	Viola Hederacea Native Violet
Mini creeping thyme features deep green foliage and has a soft scent of lemon when stepped on. It makes a	Sprawling plant, fast growing for shady areas.
striking lawn substitute.	Environment: Part shade to shade Soil: Moist well-drained soils.
Environment: Full-sun	Height: 0.10-0.2m high x 0.5-1m wide
Soil: Well-drained. Irrigation: Can	Flower: Small mauve flowers in
tolerate dryness.	Spring/Early summer.
Height: 0.10m high x 0.5m wide	Maintenance: Low
Flower: Small mauve flowers in	
Spring/Early summer.	
Maintenance: Med. Slow growing until established.	

SSG5.11 Endemic Plants

A variety of plants that are endemic to the area to support and retain local biodiversity.

Endemic plants should:

- > Be robust
- > Be endemic to specific development site

Please refer to the Suburb Selector on the Apace Nursery website listed in the *Useful Resources* section for assistance identifying endemic plants.

Appendix A.

Definitions

D1. Tree Canopy Coverage

The Tree Canopy Coverage (TCC) is the expected percentage of the development site that will be covered by canopies of trees planted on the site when they reach maturity. ⁴ To calculate TCC:

- > Where tree canopies overlap, only the overlapping area of one tree's canopy can be counted;
- > Canopy overhanging public land, such as footpaths or Public Open Space, can be counted.

Note: Whichever is greater of 20% or the LGA's Urban Tree Canopy is the amount of Tree Canopy Coverage that should be met on site. The example below uses the 20% figure.

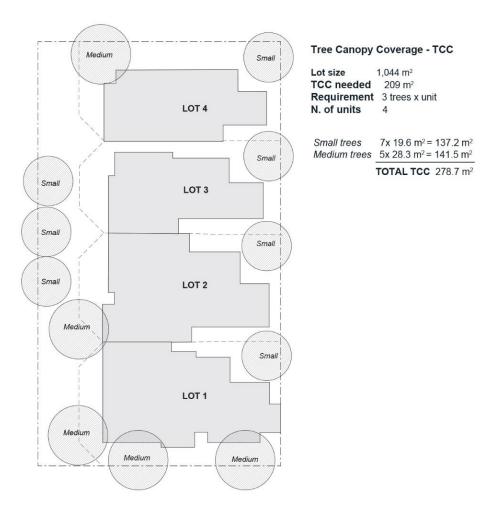


Diagram 4 Calculation of Tree Canopy Coverage Example

⁴ Size at maturity should be nominated by a knowledgeable source such as a plant nursery.

Appendix B.

Landscaping Plan Submission Criteria

A Landscaping plan should be submitted as part of the drawing package at each design stage at a minimum scale of 1:200.

Concept

- 1. North point and scale bar
- 2. Footprint of building(s) and ground levels
- 3. Fencing and retaining location and types
- 4. Extent and intention of landscaped areas in scope of works, including verge if applicable (e.g. garden bed, mulch)
- 5. Indicative ground surface treatment (e.g. Paving, Mulch, Garden Bed)
- 6. Legend identifying pot size in Litres of new trees (e.g. 45L, 90L)
- 7. Trees to be retained or removed with canopy width, height, and species annotated
- 8. Tree size category for new and retained trees (e.g. Small, Medium, Large)
- 9. Deep Soil Areas, Permeable Paving, and Rootable Soil Zones identified with dimensions and areas in m2 for all trees
- 10. Distance of tree trunk away from site elements such as built form and fencing
- 11. Tree protection areas for retained trees (See AS 4970-2009 Protection of trees on development sites)
- 12. Expected mature Tree Canopy Coverage of site in m2 and as percentage
- 13. Irrigation system and extent and location of service connections

Schematic Design

- 1. All items for Concept drawings, plus:
- 2. Landscaping categories for all trees and garden bed areas (e.g. Bird and Insect attracting, Endemic, Productive, Shade Tree...)
- 3. Indicative height and canopy spread at maturity for new trees

Development Application

- 1. All items for Concept and Schematic Design drawings, plus:
- 2. Legend or Planting Schedule identifying plant, tree and shrub species
- 3. Annotations demonstrating landscaping design intent: e.g. 'Large Shade Tree Large evergreen tree provides shade over driveway'. See Sample Landscaping Plan on following page
- 4. Images of proposed species

Note: Other requirements as determined by relevant Local Government Authority or Planning guidelines apply.

Sample Landscaping Plan

The landscaping plans on the following pages are good examples of how to communicate Development Application requirements 2, 3, and 4.

OVERALL PLAN + CORE IDEAS

COMMUNITY BENEFIT, THRESHOLD, SHARED & PRIVATE SPACE

pedesign at 81 Cartright Road, Balga will provide a plea entry statement for the new residential developm thin an established area adjacent to the Cartright He

The landscape is made of three elements; the expansive verge area shared circulars in the private courtyral gardens. The large of presents are will be shaded with dappled light from the Delonix tree and prosone space for play for the inhabitants and surrounding neighbours belonix tree will be selected and installed as larger specimen provid mature aspect to the landscape upon first glance.

The shared driveway is softened in three ways; with low planting to the odges, trees to both eides and also by the inclusion of two trollie atructure elements which allow climbing plants to provide additional shade. The surface material of the driveway is broken up with two materials, insitu concrete and a permeable paver for lawn or gravel. The permable paver

The plants and trees have been chosen to be low maintenance and for low-water usage, and chosen for their ability to strive in the varying locations within the landscape. The verge tree can be procured early in the programme to allow for growth and certainty of a larger specimen at

LANDSCAPE CALCULATIONS	S
IOT SIZE	762 sqm
DEEP SOIL (> 1m wide) min WA Design Guidelines 10%	134.5 sqm or 17.7% of lot area
GENERAL LANDSCAPE	18.3 sqm
PLANTING ON TRELLIS	48.6 sqm
CANOPY COVER	263.6 sqm or 34.6% of lot area



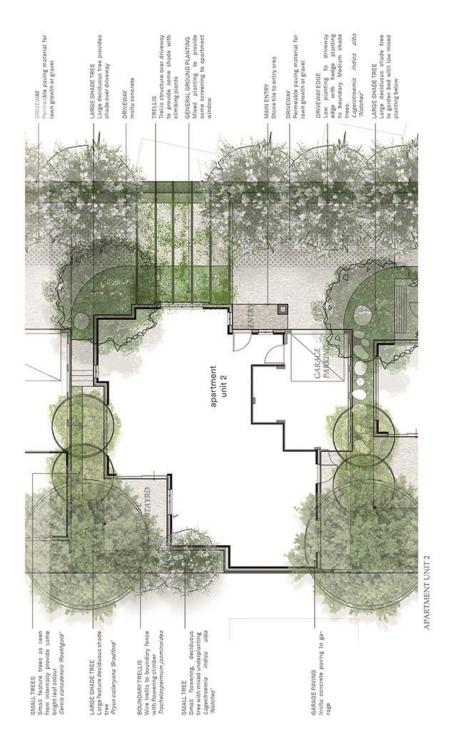


SCHEMATIC STAGE









LANDSCAPE - UNIT 2





BROAD CANOPY TREE

BROAD CANOPY TREE

Broad speaking, decletions and the grean ferra line leaves.

Broad speaking, decletions and the grean ferra line leaves.

Solic Rea, well canned to ill-sun position to light shade. Not frost tolerant solic Rea, well canned solic light 6 p.5.1.

Irrigation Additional water required in dry periods.

BROAD CANOPY TREE

Naterwise rating: ""
Height at maturity: 8m high x 7m wide.
Flower: Red/orange calour with 5 petals
Maintenance: Pruning required in early y

your callegrand Transfer of the Anglores and Transfer of the Thromoment Service of the Through Transfer of Transfer of Through Transfer of Through Transfer of Transfer Gleditals triaconthoe inamie "Shademasser"
Gredital and periodicula style trening line on open rounded. Aving tree, The goldes tipe seate to lovely contrast against a green back- Environment: Full-sun to partly shaded position.

Waterwave strike; "The partly shaded position. In the Soli! Well-defined fringation of contrast against the Soli: Well-defined fringation. Can tolerate dryness. Flower: Na. Raw wide. Can tolerate dryness. Flower: Na. Ram wide.





SMALL TREE Cercie canadensie 'Roethgold Chain of Hearts
Golden-yellow to light geven foliage with the most distinctive large,
heart-shaped leef. Tight habit which makes this a perfect tree for
namiler sized gardens, Erviscomment: Full-cun to part-shade.

Lagustroemis indica X. I fauriei Watchez (Crope Myrtle)
Uprigin multi-stemmed specimen tree with a broad specifing
coren, and masses of flowers. It has red-shorts autumn foliage
colour and extellating bark which reveals a pinklish-brown under-

WIDE SHADING TREE

. Irrigation: Can tolerate dryness.

Lagaratoamia Indica X., fauriei Xicona*
ps. Apola, manitre de annali gardena, Multi branching, low apreadle finite de anni-paradicus branches.
Emini-paradicus branches.
Soli: Well-drained, allighty acidic eoila, irrigation: Moderate
dought and heat colerant.
Wasternies rating.**
Height: An x.3n wide.
Flower: White is summer to early autmun
Maintenance: Slow growth.

Government of Western Australia Department of Communities

LANDSCAPE DESIGN SCHEMATIC STAGE

WA WATER CORP
Waterwise Rating
Low water use
Medium water use
High water use

39















ADDITIONAL PLANTS

ADDITIONAL PLANTS

ADDITIONAL PLANTS

Lomandra 'Sharar (Australian Nathwa)
Blue-gway grates like deaves with brots of flowers in spring.
Environment: Pull sun in sandy, loam and clay loam solita.
Waterwise rating:
Height: 0.4m hight & 0.5m wide.

Lomanoira Tanika' (Auericalian Native)

Landrop plant with gasse-like teaves

Environment: Full sun and tow sun. Tolerates El

Waterviron act oil type

Waterviron acting:

Waterviron acting:

Materviron act

Hibbertia scandens (Acatratian Native)
Very hardy, groundcover or climber that will tolerate
many conditions. Dark green glossy feares with yellow
flower all year.
Environment: Full sun and part sun in well-drained

ADDITIONAL PLANTS

soil Waterwise rating: ** Height: 0.5m high x 2m wide. Maintenance: Low



drained colls Waterwise rating: * Height: 0.4m high x 1.5m wide, Maintenance: Low









Environment: Full-bun to partly shaded position.
Solit Well-droined i irrigation: Can tolerate drynea.
Nateworkies stolig:
Nateworkies stolig:
Natework: Sam vide
Flower: Small perfumes white flowers in Spring/Early summer.
Maintenance: Med. Slow growing until established. Trellising required.

Pandorea pandonana (Wonga Wonga Vine)
Fast growing nature eliminite glant.
Entiremment: Eulisum to part abide
Soil: Worl-frailmed, fringston: Can tolerate dryneas
Waterwise rating: **
Height: Sin wide
Flewer; profusion of flowers in early apring
Maintenance - Low, firmming required.

NOT TRAFFICABLE - LAWIN ALTERNATIVE
Myopourn parvillatura fibs "Stock floatration Nativo)
Myopourn parvillatura fibs "Stock floatration Nativo)
Am purple.

with purple.

Environment Fall sun, port sun Soil! Tolerates wide range of soils
must be well-displand. Irrigation: Waterwide
Wysterwise range X-2m wide
Flower mail while flower in aummer.

Maintenance Low.

NOT TRAFFICABLE - LAWN ALTERNATIVE
Hemislandrs purgens also - white (Snakebash) (Jautralian Mative)
A prostate accade planting with green fellage and full cover.
Environment: Full-sum to full shaded position, Coastal Environ-

ment.
Voll: Well-drained. Intigation: Can tolerate dryness.
Voll: Well-drained. Intigation: Can tolerate dryness.
Height: Zoden high x 2-3m wide
Flower: amail white flower in aummer.
Maintenance: Low

CLIMBING PLANTS

LANDSCAPE SOFTSCAPE REFERENCES







Government of Western Australia Department of Communities





