

***DESIGNING A DROUGHT-TOLERANT DEMONSTRATION GARDEN***  
**FOR VACAVILLE CITY HALL,CALIFORNIA**

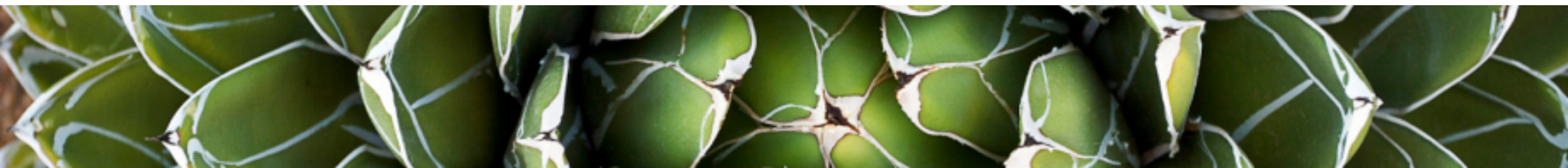


LDA184, Spring 2017 - SENIOR CAPSTONE PROJECT

Kristy Guo

## ABSTRACT

Water is precious, not only we should protect the environment by using water wisely but it is a good financial decision. A large percentage of water is attributed to residential, public and commercial outdoor use for ornamental plants and lawns. There are ways to reduce the water use for outdoor ornamental plants. This project at the Vacaville City Hall, California is aimed at redesigning the existing lawn areas in front of the city hall entrance into a more sustainable landscaping as well as a demonstrate garden for educational purpose. The demonstrate garden is targeting both lowering the financial cost of watering and maintaining also showing the public drought-tolerant landscaping can easily be lush and green. Referencing past case study to show the public how successful converting traditional lawns into a water-efficient and maintain-efficient landscaping with the use of drought-tolerant plants and efficient irrigation technology. Additionally, providing people a list of drought-tolerant plant alternatives and the process of going through careful plant selection and design according to the drought-tolerant landscaping principles for the project site in order to achieve the savings in water and maintenance costs.





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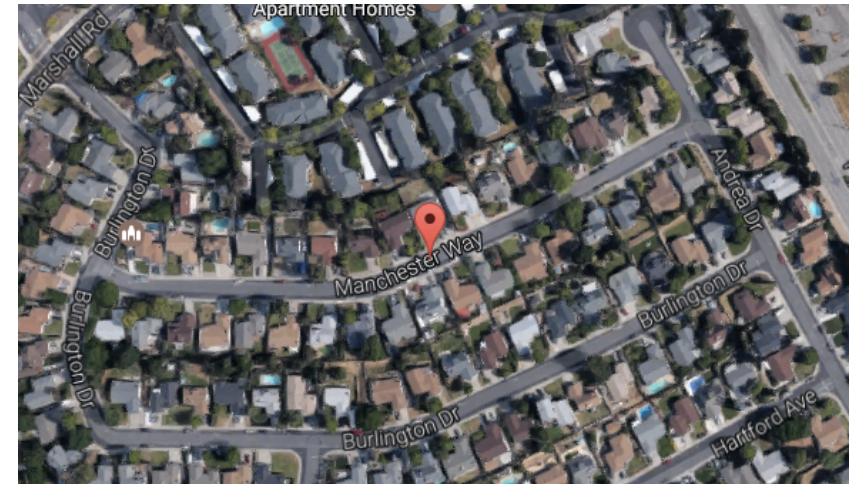
FINAL CONCEPT MASTER PLAN

WORK CITED



## WHY ARE WATER INTENSIVE LANDSCAPES A PROBLEM?

- According to the Center for landscape and Urban Horticulture website, out of the total residential water use, outdoor water use is estimated to range from 50 to 70 percent, which mean more than 50 percent of our residential water go to the outdoor plants and lawns, and 30 percent of that is wasted.
- Water intensive landscapes are common in Vacaville, California



*Typical front lawns*



*Neighborhoods of Vacaville, CA*



## WHAT ARE DROUGHT-TOLERANT LANDSCAPING PRINCIPLES?

### Seven basic drought-tolerant planting principles:

1. **Plan and design carefully.** Planning drought-tolerant landscaping design requires careful consideration of many factors, including not only water requirements, but budget, function, aesthetics and expected maintenance, both now and in the future.
2. **Soil amendments for soil improvement.** Work towards a goal of soil that drains well while retaining adequate moisture to sustain plant life. Drought-tolerant plants require well-drained soil and won't survive in soggy, poorly-drained soil. In many cases, improving soil means adding several inches of organic material, such as compost or shredded bark, worked into the top 6 to 8 inches of soil. Keep in mind, however, that some water-wise plants thrive in poor, dry, rocky soil.
3. **Create limited turf areas and other water wasting plants.** Planning drought-tolerant designs doesn't mean you have to give up the idea of a lush, green lawn. However, because it demands huge amounts of water, lawns should be kept to a minimum and should consist of drought-tolerant grass appropriate for your area. Consider replacing part or all of your lawn with low-water groundcovers or other lawn alternatives, which are drought-tolerant and usually require little or no fertilizer, insecticides or herbicides.
4. **Use appropriate plants for the area.** Take time to learn about choosing drought-tolerant plants or native plants that thrive in your particular location, as native plants are better able to tolerate weather conditions better than exotic, non-native plants. Native plants also withstand pests and disease while attracting beneficial insects such as honeybees, ladybugs and butterflies.
5. **Use of mulches.** Mulch, such as bark chips or compost, provides a number of benefits in a water-wise landscape, as 2 to 3 inches of natural mulch can prevent evaporation, keep roots cool and moist and prevent growth of weeds. Mulch also creates an attractive, natural appearance and returns nutrients to the soil. Be sure to replenish mulch as it decomposes or blows away.
6. **Water-efficient irrigation system.** Don't overwater, and use water wisely. For example, use a drip irrigation or soaker hose that directs moisture directly to plant roots. Water in the morning to prevent moisture loss through evaporation. Avoid wasteful sprinklers that produce a fine mist or fling water high into the air or onto your driveway or sidewalk. Water plants deeply and infrequently to develop long, healthy, drought-tolerant root systems. Avoid shallow watering, which creates shallow, thirsty roots.
7. **Proper maintenance for your landscape.** Drought-tolerant landscaping requires careful planning, but the result is an attractive, low-maintenance yard. However, no landscape is entirely maintenance free. Prune shrubs and trees when necessary. Deadhead flowers. Pull weeds. Rake plant debris to prevent disease and pests. Maintain a healthy compost pile.

Credit for Gardening Know How: Xeriscape Principles: Tips For Water-Wise Xeriscaping  
<https://www.gardeningknowhow.com/special/xeriscape/xeriscape-principles-water-wise-gardening-tips.htm>



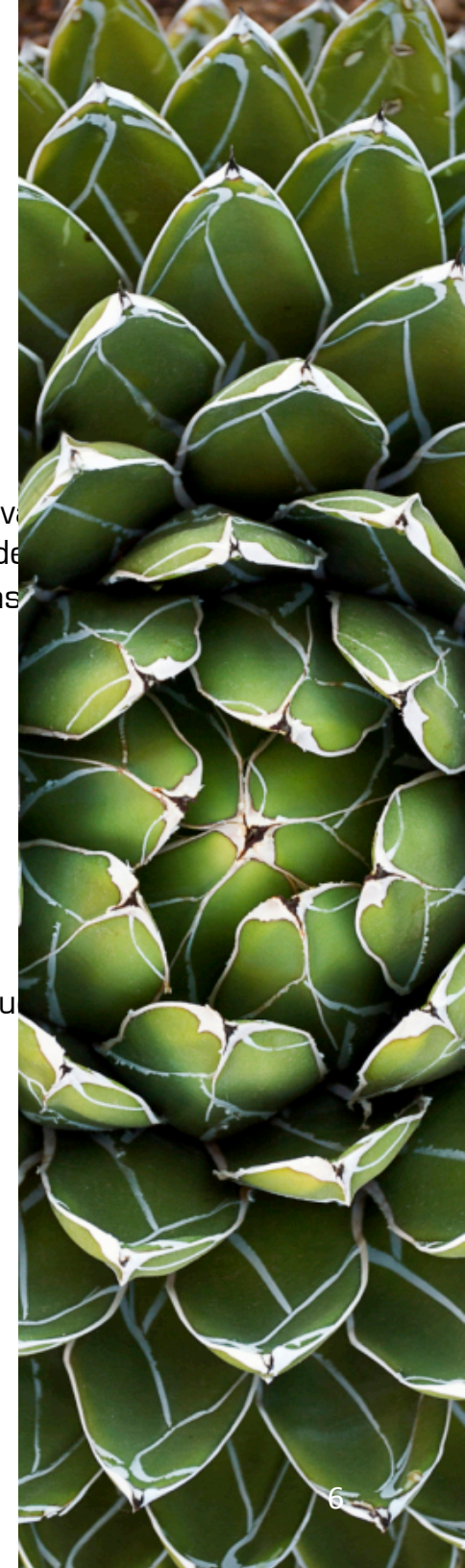
## THE PROCESS

Demonstration drought-tolerant garden can draw public awareness of its possible beauty and the value of plants selected at the project site. It also shows the public that the type of garden can thrive under a small amount of supplemental water. Further, including the techniques of water-efficiency system such as drip irrigation system, permeable concrete pathway, etc.

Main points to inform the public:

- Drought tolerant means less water
- Lower maintenance with drought tolerant
- Easily be lush and green

The following case study shows the significant impacts of converting traditional landscaping to drought-tolerant landscaping,



## CASE STUDY

### Garden/Garden – A Comparison in Santa Monica Santa Monica, California, U.S.A

#### Overview

Garden/Garden is a demonstration project took place in Santa Monica that composed two adjacent, typical, residential front yards to contract the benefits of a traditional garden versus a water-efficient native garden. The features of the native garden include California native plants, a water-efficient drip irrigation, a weather-sensitive irrigation controller, permeable paving, mulch and a system for capturing storm water runoff for groundwater recharge. The other font yard would represent the typical font yard garden that features exotic plants from Northern Europe and the Eastern United States, a standard, user-controlled sprinkler irrigation system and no provision for runoff mitigation.





## CASE STUDY

### Garden/Garden – A Comparison in Santa Monica Santa Monica, California, U.S.A

*Native Garden*



Garden/Garden Construction Cost Item	Native Garden	Traditional Garden
DESIGN	\$1,500.00	\$1,500.00
DEMOLITION	\$4,100.00	\$2,900.00
SOIL PREP, PLANTS, MULCH	\$5,100.00	\$3,500.00
IRRIGATION SYSTEM	\$2,400.00	\$3,400.00
BOULDERS, BENDER BOARD, SIGNAGE	\$3,100.00	\$2,800.00
RAIN CATCHMENT, INFILTRATION PIT	\$3,900.00	None
PERMEABLE PAVING	\$2,000.00	None
TOTAL	\$22,100.00	\$14,100.00

APPROXIMATE COSTS	NATIVE GARDEN	TRADITIONAL GARDEN
CONSTRUCTION COST	\$16,700.00	\$12,400.00
ANNUAL WATER USE	14300 GALLONS	76700 GALLONS
ANNUAL WATER CHARGES	\$14.00	\$74.00
MAINTENANCE REQUIREMENT	MONTHLY	WEEKLY
ANNUAL MAINTENANCE CHARGES	\$800.00	\$3,000.00

*Traditional Garden*





## SUSTAINABLE LANDSCAPE GALLERIES

### FEATURED GARDENS in Santa Monica, California, U.S.A

- From City of Santa Monica website: *Office of Sustainability and the Environment*



Adam's Garden



Amy's Garden



Ann's Garden



Floss's Garden



John's Garden



Jon's Garden



Josephine's Garden



Katherine's Garden



Mary's Garden



Mary D's Garden



Pam's Garden



Patrick's Garden



Paula's Garden



Rosalie's Garden



Sherry's Garden



Suzanne's Garden



Tom's Garden



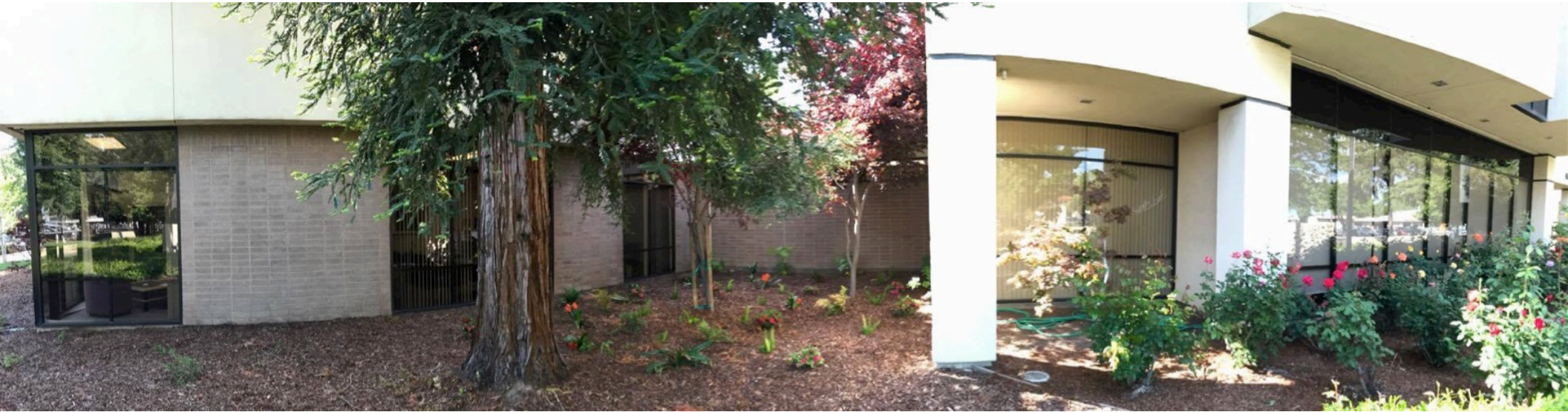
Todd's Garden

PROJECT SITE – VACAVILLE CITY HALL, CA

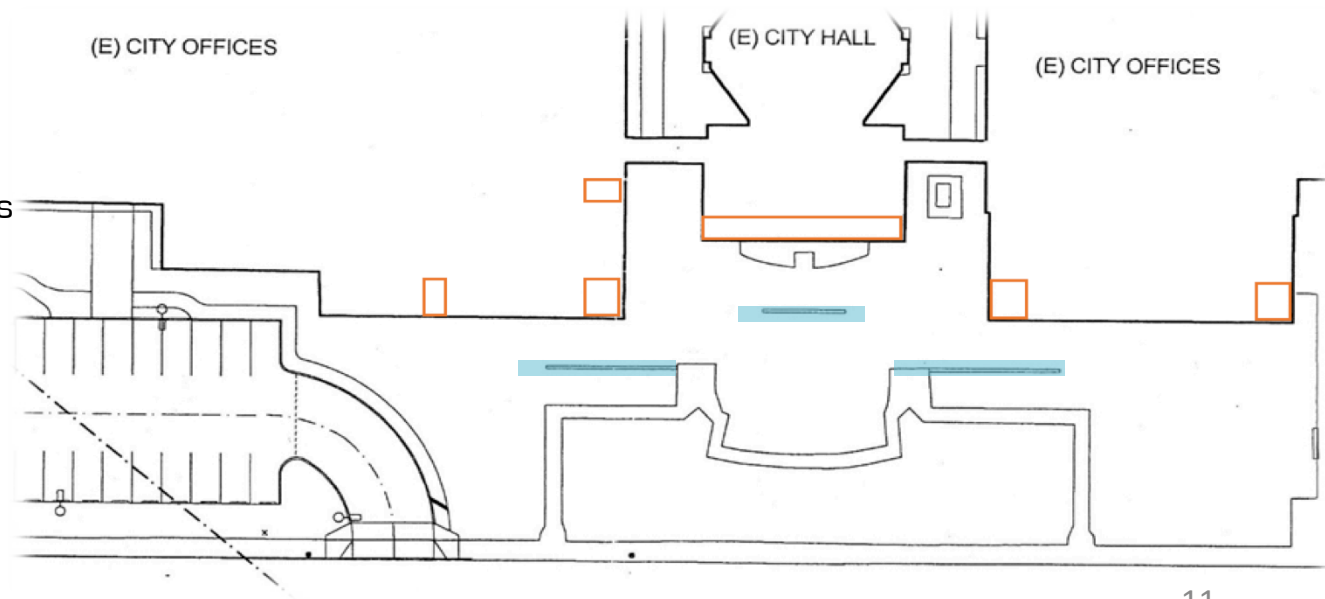




## SITE IMAGES AND ANALYSIS

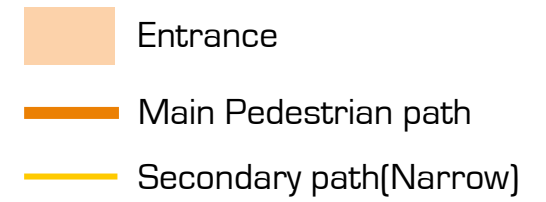


- Existing art wall
- Offices with exterior windows views





### EXISTING CIRCULATION DIAGRAM





## TREE ANALYSIS

- Project Limit Area
- Water-Wise Tree to keep





## SITE SURVEY – SHADING MAP



Symbol for shade

Solar analysis of Vacaville:

From 7:30am – 5:00pm shadow  
moves from west to east

From January – December: Moves  
mostly only North West





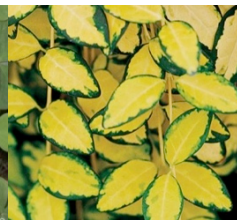
## PLANT PALETTE



Bush Anemone



Asarum Caudatum



Vinca Minor



Heuchera Villosa



Gazania linearis



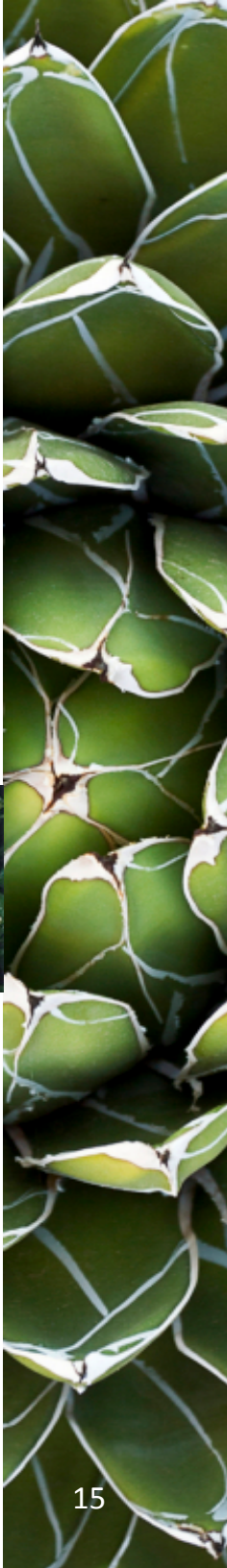
Leonotis leonurus



Armeria Maritima



Centranthus Trinervis



## DROUGHT-TOLERANT GROUND COVER

Ground-cover plants grow low to the ground, spread quickly and provide dense coverage. Ground covers need less water to survive and tolerate extended periods of no rainfall.

\*ALL IMAGES SEE REFERENCES ON PAGE 37-42

### 1) Fast-Growing Ground Covers

Useful for covering large areas (often tend to be invasive, prune excess growth to keep it neat and contained)

Coyote Brush (*Baccharis Pilularis*)

Wild Lilac (*Ceanothus Spp.*)

Creeping Cotoneaster (*Cotoneaster Adpressus*)

Mexican Daisy (*Erigeron Karvinskianus*)





## 2) Erosion- Controlling Ground Covers

Extensive or deep root systems that help prevent erosion (grow well on slopes)

\*ALL IMAGES SEE REFERENCES ON PAGE 37-42

Manazanita (*Arctostaphylos*)

Coyote Brush (*Baccharis Pilularis*)

Wild Lilac (*Ceanothus Spp.*)

Sageleaf Rockrose (*Cistus Salviifolius*)

Creeping Contoneaster(*Contoneaster Adpressus*)



Ice Plant (*Delosperma*)

Aaron' beard (*Hypericum Calycinum*)

Creeping Juniper (*Juniperus Horizontalis*)

Lantana (*Lantana Camara*)

Creeping Mahonia (*Mahonia Repens*)

### 3) Flowering Ground Covers

Brighten the landscape and add pizzazz to landscape

\*ALL IMAGES SEE REFERENCES ON PAGE 37-42

Cape Weed (*Arctotheca Calendula*)

Mexican Daisy (*Erigeron Karvinskianus*)

Lantana (*Lantana Camara*)

Scaevola (*Mauve Clusters*)





## 4) Evergreen Ground Covers

\* ALL IMAGES SEE REFERENCES ON PAGE 37-42



Aaron's' Beard (*Hypericum Calycinum*)



Creeping Cotoneaster (*Cotoneaster Adpressus*)



Coyote Brush (*Baccharis Pilularis*)

Creeping Juniper (*Juniperus Horizontalis*)



Creeping Mahonia (*Mahonia Repens*)



Mexican Daisy (*Erigeron Karvinskianus*)



Rosemary (*Rosemarinus Offcinalis*)

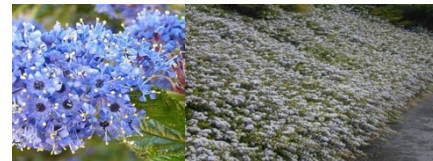


Sageleaf Rockrose (*Cistus salviifolius*)

Germander (*Teucrium Chamaedrys*)



Wild Lilac (*Ceanothus Spp.*)



## Sun-Loving

Tolerate dry soil and direct exposure to sunlight.

\*ALL IMAGES SEE REFERENCES ON PAGE 37-42

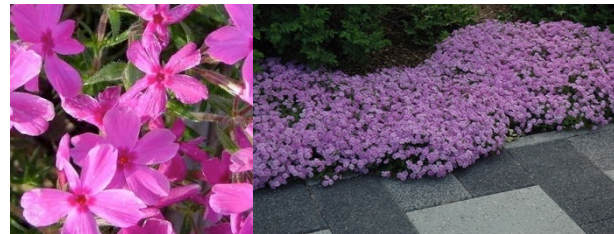
Kaffir Fig (*Carpobrotus Edulis*)

Ice Plants (*Delosperma Cooperi*)

Moss Phlox (*Phlox Subulata*)

Blue-eyed Grass (*Sisyrinchium Graminoides*)

Prairie Zinnia (*Zinnia Grandiflora*)





## Filtered Sun

Receive limited amounts of sunlight through the tree leaves.

\*ALL IMAGES SEE REFERENCES ON PAGE 37-42

Creeping raspberry (*Rubus pentaobus*)

“Crispa” lace shrub (*Stephanandra incise* “Crispa”)



## Partial Shade

Usually means plants should receive less than six hours of sun each day and they can grow in shade under man-made structures.

\* ALL IMAGES SEE REFERENCES ON PAGE 37-42

Bugleweed (*Ajuga reptans*)

Poppy mallow (*Callirhoe involurata*)

Australian fuchsia (*Correa* “dusky bells”)

Western bleeding heart (*Dicentra Formosa*)

Santa Barbara daisy (*Erigeron karvinskianus*)

Creeping juniper (*Juniperus horizontalis*)





## Shade-Loving

Benefit from the cooler temperatures found in the shade as well as less direct sunlight.

\*ALL IMAGES SEE REFERENCES ON PAGE 37-42

“Auslese” lady’s mantle (*Alchemilla mollis* “Auslese”)



“Autumn Bride” maple leaf alumroot (*Heuchera villosa* “Autumn Bride”)



Mahonia Pinnata (*Mahonia Pinnata*)

“Illumination” creeping myrtle (*Vinca minor* “Illumination”)



## Full Shade

Full shade plants can thrive in dry soil under full shade.

\*ALL IMAGES SEE REFERENCES ON PAGE 37-42

Western wild ginger (*Asarum caudatum*) partial to full shade

Bush Anemone (*Carpenteria californica*)

Cream Bush (*Holodiscus discolor*)

Common periwinkle (*Vinca minor*)





# Lush and Colorful Waterwise Plants

\*ALL IMAGES SEE REFERENCES ON PAGE3 37-42

## 1) Yellow

Yarrow (*Achillea Millefolium*)

Evergreen Kangaroo Paw (*Anigozanthos Flavidsz*)

Evening Primrose (*Oenothera Biennis*)

Black-eyed Susan (*Rudbeckia*)

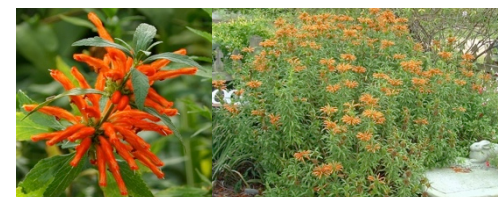
Cotton Lavender (*Santolina Chamaecyparissus*)



## 2) Orange

Treasure Flower (*Gazania Linearis*)

Lion's Tail (*Leonotis Leonurus*)



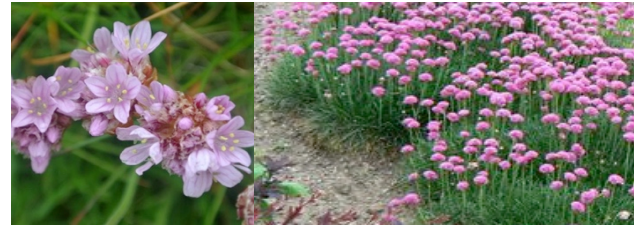
### 3) Pink

Aloe (Aloe Vera)

Sea Thrift (Armeria Maritima)

Cistus x Incanus (Rockrose)

Lindheimer's Beeblossom (Gaura Lindheimeri)

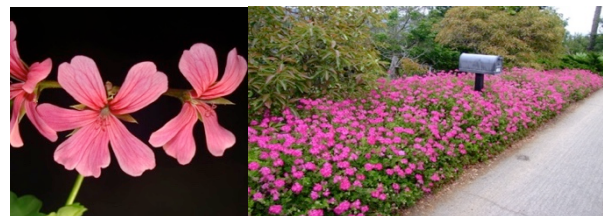


### 4) Red

Red Silky Oak (Grevillea Banksii)

Ivy-leaf Geranium (Pelargonium Peltatum)

Sacred Bamboo (Nandina Domestica)





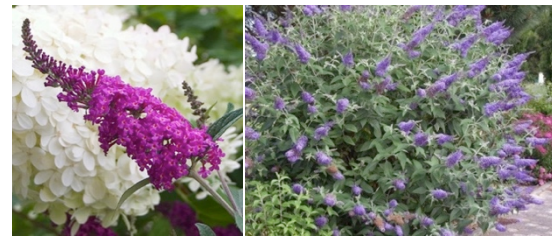
## 5) Purple

Korean Mint (*Agastache Rugose*)

Butterfly Bush (*Buddleja* 'Lochinch')

English Lavender (*Lavandula Angustifolia*)

Purpletop Vervain (*Verbena Bonariensis*)



## 6) Blue

Blue Plumbago (*Plumbago Auriculata*)

Nepeta (*Nepeta Subsessilis*)



## Edible Drought-tolerant Plant

Chinese Mustard (*Brassica Juncea*)

Sweet Potato (*Ipomoea Batatas*)

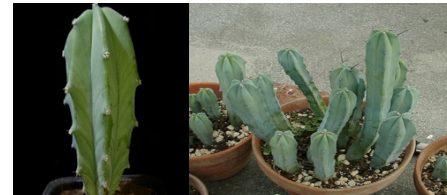
Eggplant (*Solanum Melongena*)



## Cactus

Bilberry Cactus (*Myrtillocactus Geometrizans*)

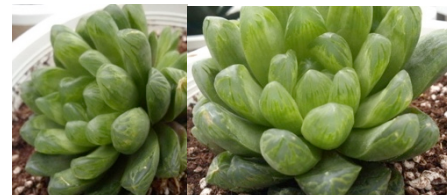
Nylon Hedgehog Cactus (*Echinocereus Viridiflorus*)



## Succulent

Aloe (Aloe Vera)

Cooper's Haworthia (*Haworthia Cooperi*)



\*ALL IMAGES SEE REFERENCES ON PAGE 37-42



## PLANTS DETAIL INFORMATION



	Scientific Name	Common Name	Height	Max. Width	Color	Flower	Evergreen	Exposure	Note
Fast-Growing Ground Covers									
	Baccharis Pilularis	Coyote Brush	up to 9.8ft	12ft	Green	White ☼	✓	☀/☀	
	Cotoneaster adpressus	Creeping Cotoneaster	up to 1ft	6ft	Green	Pink/ White ☼☼	✓	☀/☀	
	Ceanothus Spp.	Wild Lilac	up to 2ft	10ft	Purple/ Blue	Purple/ Blue ☼☼	✓	☀/☀	
	Erigeron Karvinskianus	Mexican Daisy	up to 2ft	5ft	Green	White ☼	✓	☀/☀	
Erosion-Controlling Ground Covers									
	Arctostaphylos	Manzanita	2-20ft						
	Baccharis Pilularis	Coyote Brush	up to 9.8ft	12ft	Green	White ☼	✓	☀/☀	
	Ceanothus Spp.	Wild Lilac	up to 2ft	10ft	Purple/ Blue	Purple/ Blue ☼☼	✓	☀/☀	
	Cistus salvifolius	Sageleaf Rockrose	2-3ft		Green	White ☼	✓	☀	
	Cotoneaster Adpressus	Creeping Cotoneaster	0.5-1ft	4-6ft	Green	White ☼	✓	☀/☀	
	Delosperma Cooperi	Ice Plant	0.25-0.5ft	1-2ft	Green	Red/ Purple ☼☼	✓	☀	
	Hypericum Calycinum	Aaron's beard	1-1.5ft	1.5-2ft	Green	Yellow ☼	✓	☀/☀	
	Juniperus Horizontalis	Creeping Juniper	0.3-1ft	5-15ft	Green	Blue/ White ☼☼	✓	☀	
	Lantana Camara	Lantana	3-4ft	1-3ft	Green	Pink/ Yellow/ White ☼☼☼	✓	☀	Invasive
	Mahonia Repens	Creeping Mahonia	0.75-1ft	0.75-1.5ft	Green	Yellow ☼	✓	☀/☀	
Flowering Ground Cover									
	Arctotheca Calendula	Cape Weed	up to 1ft	up to 2.5ft	Green	Yellow ☼	✓	☀	
	Erigeron Karvinskianus	Mexican Daisy	1-2ft	3-5ft	Green	Yellow/ White ☼☼	✓	☀/☀	
	Lantana Camara	Lantana	3-4ft	1-3ft	Green	Pink/ Yellow/ White ☼☼☼	✓	☀	Invasive
	Mauve Clusters	Scaevola	up to 1ft	3-5ft	Green	Blue ☼	✓	☀/☀	
Evergreen Ground Covers									
	Hypericum Calycinum	Aaron's beard	1-1.5ft	1.5-2ft	Green	Yellow ☼	✓	☀/☀	
	Cotoneaster	Cotoneaster	0.5-1ft	4-6ft	Green	White ☼	✓	☀/☀	
	Baccharis Pilularis	Coyote Brush	1-2ft	8-10ft	Green	✖	✓	☀	
	Juniperus Horizontalis	Creeping Juniper	0.3-1ft	5-15ft	Green	Blue/ White ☼☼	✓	☀	
	Mahonia Repens	Creeping Mahonia	0.75-1ft	0.75-1.5ft	Green	Yellow ☼	✓	☀/☀	
	Erigeron Karvinskianus	Mexican Daisy	up to 2ft	5ft	Green	White ☼	✓	☀/☀	
	Rosemarinus Officinalis	Rosemary	2-6ft	2-4ft	Green	Blue/ White ☼☼	✓	☀	
	Cistus salvifolius	Sageleaf Rockrose	2-3ft	6ft	Green	White ☼	✓	☀	
	Teucrium Chamaedrys	Germander	0.75-1ft	1-2ft	Green	Purple ☼	✓	☀	
	Ceanothus Spp.	Wild Lilac	up to 2ft	10ft	Purple/ Blue	Purple/ Blue ☼☼	✓	☀/☀	



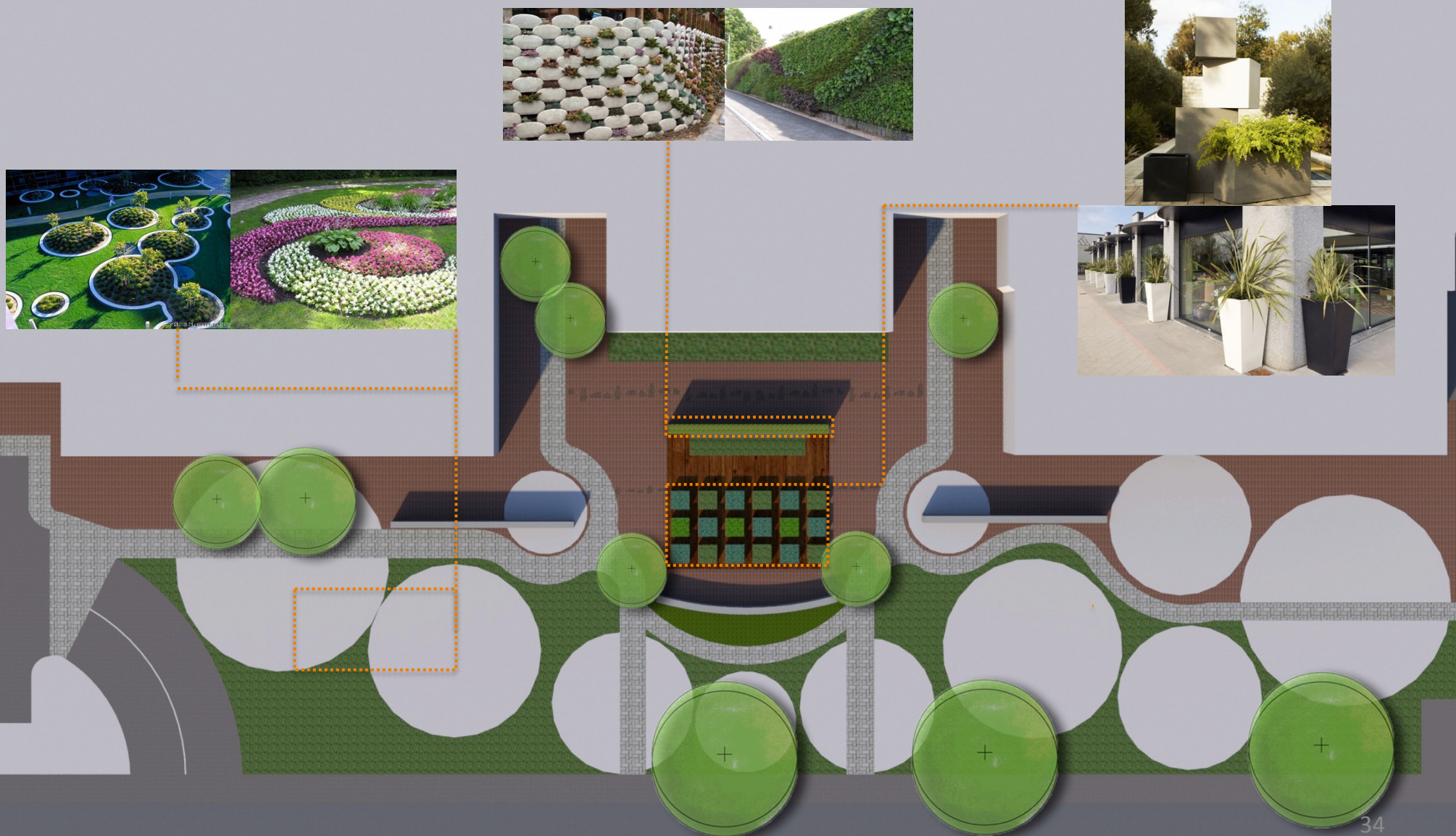
Sun-Loving									
	Carpobrotus Edulis	Kaffir Fig	up to 0.5ft	up to 30ft	Green	White ☼	✓	☼	
	Delosperma Cooperi	Ice Plant	0.25-0.5ft	1-2ft	Green	Red/ Purple 🌸🌸	✓	☼	
	Phlox Subulata	Moss Phlox	0.25-0.5ft	1-2ft	Green	Purple/ White 🌸🌸	✓	☼	
	Sisyrinchium Graminoides	Blue-eyed Grass	1-3ft	0.5-1ft	Green	Blue/ Yellow 🌸🌸	✓	☼	
	Zinnia Grandiflora	Prairie Zinnia	up to 0.5ft	1-3ft	Green	Yellow 🌸	✗	☼	
Filtered Sun									
	Rubus pentaobus	Creeping raspberry	up to 0.5ft	over 30ft	Green	White ☼	✓	☼	
	Stephanandra incisa	"Crispa" lace shrub	1-3ft	1-4ft	Green	White ☼	✓	☼	
Partial Shade									
	Ajuga reptans	Bugleweed	0.5-0.75ft	0.5-1ft	Green	Blue 🌸	✓	☼	
	Callirhoe involutate	Poppy mallow	0.5-1ft	0.5-3ft	Green	Red/ Purple 🌸🌸	✓	☼	
	Correa	Australian fuchsia	1-3ft	3-6ft	Green	Pink 🌸	✓	☼	
	Dicentra Formosa	Western bleeding heart	0.5-1ft	1-3ft	Green	Pink 🌸	✓	☼	
	Erigeron Karvinskianus	Santa Barbara Daisy	1-2ft	3-5ft	Green	Pink/ White 🌸🌸	✓	☼	
	Juniperus Horizontalis	Creeping Juniper	0.3-1ft	5-15ft	Green	Blue/ White 🌸🌸	✓	☼	
Shade-Loving									
	Alchemilla mollis	"Auslese" lady's mantle	1-1.5ft	1.5-2.5ft	Green	Green/ Yellow 🌸🌸	✓	☼	Invasive
	Heuchera villos	"Autumn Bride" maple leaf alumroot	1.5-3ft	1.5-2ft	Green	White ☼	✓	☼	
	Mahonia Pinnata	Shinyleaf Mahonia	up to 10 ft	up to 5ft	Green	Yellow 🌸	✓	☼	
	Vinca Minor	Creeping Myrtle	0.25-0.5ft	0.5-1.5ft	Green	Purple/ Blue 🌸🌸	✓	☼	
Full Shade									
	Asarum caudatum	Western Wild Ginger	0.5ft	1.5ft	Green	Brown 🌸	✓	☼	
	Carpenteria californica	Bush Anemone	6-8ft	4-5ft	Green	White ☼	✓	☼	
	Holodiscus Discolor	Cream Bush	10-15ft	10-15ft	Green	White ☼	✓	☼	
	Vinca Minor	Creeping Myrtle	0.25-0.5ft	0.5-1.5ft	Green	Purple/ Blue 🌸🌸	✓	☼	

Lush and Colorful Waterwise Plants								
Yellow								
	Achillea Millefolium	Yarrow	2-3ft	2-3ft	Green	Yellow/ White 🌻🌼	✓	☀️
	Anigozanthos Flavidus	Evergreen Kangaroo Paw	3-6ft	2-4ft	Brown	Green/ Yellow 🌿🌻	✓	☀️/🌧️
	Oenothera Biennis	Evening Primrose	3-5ft	2-3ft	Green	Yellow 🌻	✗	☀️/🌧️
	Rudbeckia	Black-Eyed Susan	2-3ft	1-2ft	Green/ Yellow	Yellow 🌻	✓	☀️
	Santolina Chamaecyparissus	Cotton Lavender	1-2ft	2-3ft	Green	Yellow 🌻	✓	☀️
Orange								
	Gazania Linearis	Treasure Flower	0.25-0.5ft	0.5-1ft	Green	Orange 🌻	✓	☀️
	Leonotis Leonurus	Lion's Tail	3-6ft	1.5-3ft	Green	Orange 🌻	✓	☀️
Pink								
	Aloe Vera	Aloe	1-2ft	0.5-1ft	Green	Red/ Pink 🌺🌸	✓	☀️
	Armeria Maritima	Sea Thrift	0.5-1ft	0.5-1ft	Green	Pink/ White 🌸🌼	✓	☀️
	Cistus x incanus	Rockrose	4-6ft	4-6ft	Green	Pink 🌸	✓	☀️
	Gaura Lindheimeri	Lindheimer's Beeblossom	3-5ft	1-2ft	Green	Pink/ White 🌸🌼	✓	☀️
	Lagerstroemia Speciosa	Giant Crape-Myrtle	up to 60ft	2-10ft	Tree	Pink/ White 🌸🌼	✗	☀️
Red								
	Grevillea Banksii	Red Silky Oak	6-25ft	6-12ft	Green	Red 🌺	✓	☀️/🌧️
	Pelargonium Peltatum	Ivy-leaf Geranium	1-2ft	1-3ft	Green	Red 🌺	✓	☀️/🌧️
	Nandina Domestica	Sacred Bamboo	3-8ft	2-4ft	Green	Red 🌺	✓	☀️/🌧️
Purple								
	Agastache Rugosa	Korean Mint	1-3ft	1-3ft	Green	Purple 🌺	Semi	☀️
	Buddleja 'Lochin'	Butterfly Bush	4-5ft	4-5ft	Green	Purple 🌺	Semi	☀️
	Lavandula Angustifolia	English Lavender	1-1.5ft	1-1.5ft	Green	Purple 🌺	✓	☀️
	Verbena Bonariensis	Purpletop Vervain	2-4ft	1.5-3ft	Green	Purple 🌺	✓	☀️/🌧️ Invasive
Blue								
	Plumbago Auriculata	Blue Plumbago	1-3ft	1-3ft	Green	Light Blue 🌸	✓	☀️/🌧️
	Nepeta Subsessilis	Nepeta	1.5-2ft	1-1.5ft	Green	Purple/ Blue 🌺🌸	✓	☀️/🌧️



Edible Drought-tolerant Plant									
	Brassica Juncea	Chinese Mustard	1-1.5ft	1-1.5ft	Green	✖	✓	☀	Invasive
	Ipomoea Batatas	Sweet Potato	0.5-1ft	8-10ft	Green/Red	Purple 🍆	✓	☀	
	Solanum Melongena	Eggplant	2-4ft	1-3ft	Green	✖	✓	☀	
Cactus									
	Myrtillocactus Geometrizans	Bilberry Cactus	12-15ft	up to 15ft	Green	Green/ White 🌵🌵	✓	☀	
	Echinocereus Viridiflorus	Nylon Hedgehog Cactus	0.1-1ft	0.3ft	Green	Green/ White 🌵🌵	✓	☀	
Succulent									
	Aloe Vera	Aloe	1-2ft	0.5-1ft	Green	Red/ Pink 🌸🌸	✓	☀	
	Haworthia Cooperi	Cooper's Haworthia	up to 0.5ft	up to 0.3ft	Green	Green/ White 🌵🌵	✓	☀	

## DESIGN CONCEPT - INSPIRATIONS & IDEAS





# PLANTING DESIGN CONCEPT DIAGRAM



## MASTER PLAN



Asarum Caudatum

Vinca Minor

Heuchera Villosa

Gazania linearis

Leonotis leonurus

Armeria Maritima

Centranthus Trinervis

Grevillea Banksii





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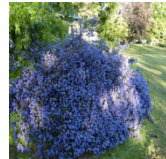
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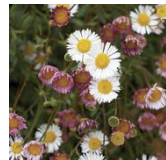
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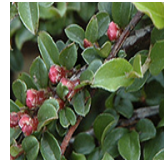
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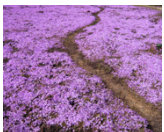
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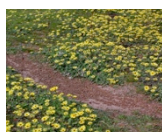
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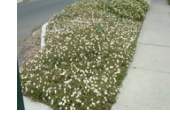
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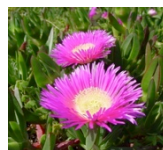




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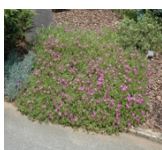
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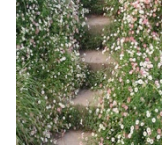
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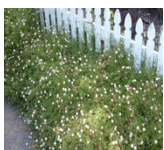
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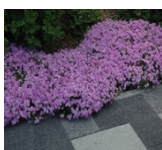
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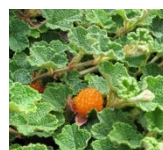
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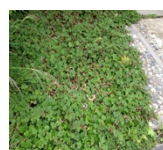
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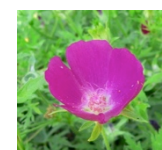
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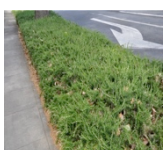
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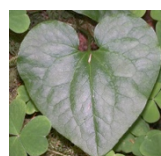
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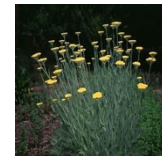
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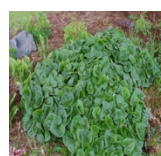
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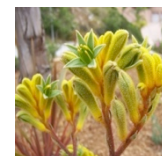
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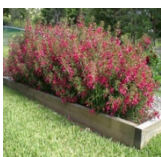
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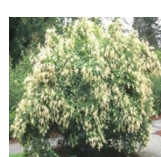
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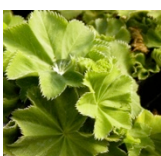
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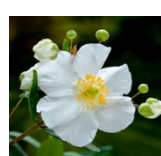
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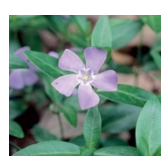
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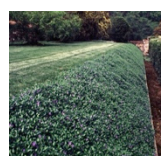
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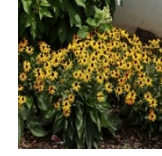
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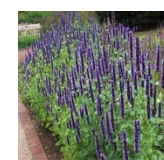
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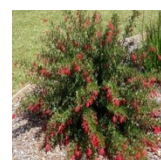
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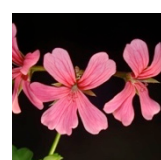
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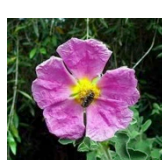
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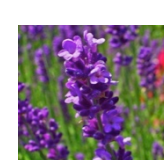
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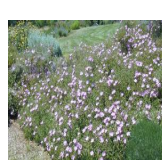
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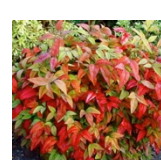
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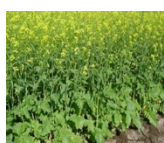
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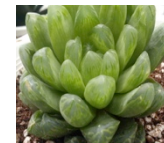
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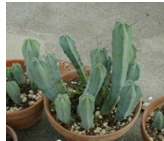
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