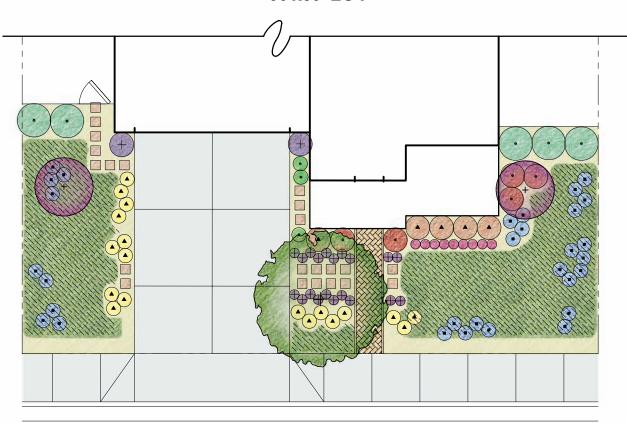
"TYPICAL" SIZED LOT HOUSE

SOUTH FACING FRONT GARDEN, TYPICAL

60'x80' LOT



PLANT COUNT

TREES 3 SHRUBS 97

GROUNDCOVER 476 SF

PLANT CLIMATE:

Southern Foothill summers are hot and dry with afternoon breezes and occasional thunderstorms. Winter temperatures drop below freezing and any snow accumulation will greatly limit plant options.

DESIGN

The Water Efficient Landscape Ordinance allows drip, drip line, or other low-flow, non-spray irrigation within two feet of any non-permeable surface; it does not allow spray irrigation in these areas. There are no restrictions on the irrigation system if the landscaped area is adjacent to permeable surfacing. Planting and irrigation must be designed appropriately adjacent to non-permeable paving to meet this Ordinance.

PAVING:

Entry and side walkway to be sand-set permeable unit pavers, decomposed granite, pebbles or other surface light in color for low heat emission. Driveway to be permeable concrete, permeable asphalt or upgraded to sand-set permeable paver units. Impervious surface should be minimized.

MULCH:

Two (2) inches of mulch in all areas. Sheet mulching and recycled green waste mulch are recommended.

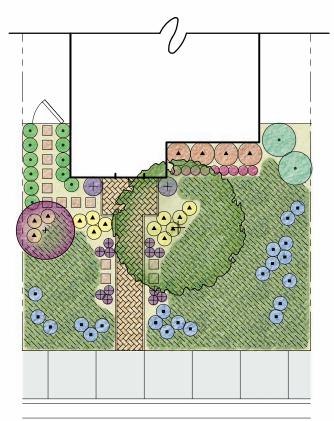
FIRE:

Templates are based on individual lots within a subdivision. When developing up against wildlands or other fire sensitive areas for an individual parcel or a project, a fire management plan should be created.

ZERO-LOT LINE HOUSE

SOUTH FACING FRONT GARDEN, TYPICAL

30'x80' LOT



PLANT COUNT

TREES 2 SHRUBS 75

GROUNDCOVER 354 SF

DRAINAGE:

Downspouts should be directed into landscape with grading for proper drainage away from house. Runoff during plant establishment must be accommodated on-site.

PLANT RESOURCES:

The sample plant legend above provides guidance for appropriate plant selection. Selections should be modified to address different solar orientations, soil conditions, and other micro-climatic factors of a particular building site. Resources for additional plant selections and substitutions include Sunset's Western Garden Book, edited by Kathleen Norris Brenzel; Water Use Classification of Landscape Species (WUCOLS), http://www-facilities.stanford.edu/environment/landscape.pdf and your local chapter of the California Native Plant Society (www.cnps.org).



SOUTHERN FOOTHILLS FRONT YARD

June 2009

SAMPLE PLANT LEGEND

SYMBOL BOTANICAL NAME COMMON NAME

LARGE TREES

Geijera parviflora Australian Willow Quercus suber Cork Oak

SMALL TREES

Arbutus Unedo Strawberry Tree
Cercis occidentalis Redbud
Laurus nobilis** Sweet Bay**

LARGE SHRUBS

Carpenteria californica Anemone
Arctostaphylos D. 'Howard McMinn' Manzanita
Coprosma 'Coppershine'** NCN
Cistus Salvifolious Sage-leaf Rockrose

SMALL SHRUBS & PERRENIALS

Nandina 'Fire Power'**
 Festuca 'Siskiyou Blue'
 Mimulus aurantiacus
 Heuchera 'Santa Ana Cardinal'**
 Eschscholzia californica

Blue Fescue Monkey Flower Santa Ana Cardinal Coral Bells** California Poppy

GROUNDCOVER

Acacia redolens 'Desert Carpet'
Achillea millefolium
Arctostaphylos 'Emerald Carpet'

Dwarf Prostrate Acacia Common Yarrow Emerald Carpet

Heavenly Bamboo**

HARDSCAPE



* Can tolerate light traffic
** Can tolerate shade

SUNSET ZONES - 18, 19





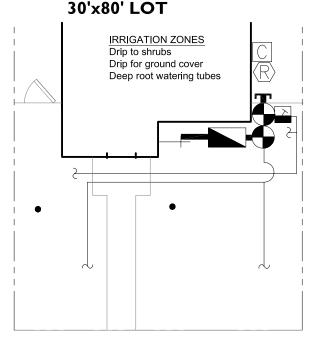
NORTH

1'' = 10'-0''

Note: For additional information regarding design and installation, please see back yard template and CUWCC's Water Smart Landscape Checklist at www.cuwcc.org. Funded by the U.S. Bureau of Reclamation, Lower Colorado Region, Southern California Office.

SOUTH FACING FRONT GARDEN, TYPICAL 60'x80' LOT Refer to back yard templates for back yard examples IRRIGATION ZONES Drip to shrubs Spray for ground cover Bubblers to deep root watering tubes

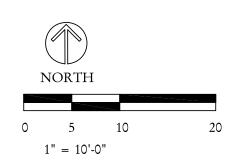
ZERO-LOT LINE HOUSE SOUTH FACING FRONT GARDEN, TYPICAL





SOUTHERN FOOTHILLS FRONT YARD

June 2009



SAMPLE WATER USE PROJECTIONS FOR TEMPLATE PLANTING/IRRIGATION

"TYPICAL" SIZED LOT HOUSE

Estimated Water Use-Porterville - Typical Lot														
Valves	SQ FT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN GAL
Spray Ground Cover	495	17	85	342	542	846	994	1123	965	700	422	95	0	6,131
Drip Ground Cover	313	8	42	168	266	416	489	552	474	344	207	47	0	3,015
TOTAL	808	26	126	511	808	1,262	1,483	1,676	1,439	1,045	629	142	0	9,146
Estimated water use 9,146 gal/yr; MAWA = 17,830 gal/yr; projected use = 51% of MAWA														
Estimated Water Use-Porterville - Zero Lot Line														
Valves	SQ FT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN GAL
Drip Ground Cover	565	15	75	304	481	751	882	997	857	622	374	84	0	5,443
TOTAL	565	15	75	304	481	751	882	997	857	622	374	84	0	5,443
Estimated water use 5,443 gal/yr; MAWA = 12,468 gal/yr; projected use = 44% of MAWA														
Rainwater potential for 980 sq ft roof = 5,220 gal/yr														
Greywater Potential for 2 showers/day = 17,800 gal/yr														

PRECIP = Precipitation Rate is the application rate of irrigation in inches per hour

Assumed precips: Spray heads -1.8, Drip -.4, Subsurface drip - 1.1, Deep root watering -8

MAWA = Maximum Annual Water Allotment (in gallons and based upon 70% of area historical annual ET)

ETo = Reference evapotranspiration is the quantity of water evaporated from the soil and transpired by the planting and is measured in inches per month ANN GAL = Annual gallons

RUNTIME = Total amount of minutes required for planting root depth in native soil

CYC = Total number of repeat cycles required for native soil

CYC TIME = Rounded minutes of each cycle to be repeated by "CYC allowing infiltration monthly number = number of times/month to apply runtime (refer to example below)

SPRAY HEAD = Spray head with one of the following: standard matched precipitation spray nozzles - 1.8"/hr, low precipitation nozzles - 1"/hr, or mini rotor nozzles - .4"/hr

During establishment period, root depth is shallower, thus requiring more frequent irrigation with shorter run times, stretching out the frequency and extending the total runtimes as the planting matures and roots penetrate into native soil conditions over a 3-5 year span. Establishment irrigation frequency depends upon the time of year initial planting takes place.

BASE SCHEDULE for established plant material with historical weather data (10 year average) and assumed precips. Note, if low precipitation heads or mini rotors are used in lieu of conventional spray heads, then the base run times will need to be extended to provide water down to the planting root zones.

Monthly example:

The number under the month indicates the number of times that zone needs to be irrigated during that month. For fractions of runtimes per month, multiply the # of CYC by the decimal (example: drip/ground cover requires .6 runtimes per month of March = .6 X 7(# of CYC)= 4 cycles of 23 minutes each (CYC). This would equate to 92 minutes total runtime one time during the month of March.

Front Yards: Refer to front yard design templates for layout ideas.

Note: Some plants respond better to overhead spray while many others do better with drip. The irrigation design will need not only to take into consideration plant preferences, but also runoff and potential blockage where the planting grows in front of the spray heads. Drip and spray are both shown on the templates to show differences in system costs and projected water use.

Also see back yard templates.

SAMPLE BASE SCHEDULES FOR ESTABLISHED LOW WATER USING PLANT MATERIAL

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Porterville Base Schedule (Tulare County)																
STA	PRECIP	RUN TIME	CYC	CYC TIME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Spray Ground Cover	1.8	48	10	5	0	0	0.8	1.2	1.9	2.3	2.6	2.2	1.6	1	0	0
Drip Shrub	0.4	267	12	23	0	0	0.5	0.8	1.2	1.4	1.6	1.4	1	0.6	0	0
Subsurface Drip - Ground Cover	1.1	61	7	8	0	0	0.8	1.2	1.9	2.3	2.6	2.2	1.6	1	0	0
Drip Ground Cover	0.4	167	7	23	0	0	0.8	1.2	1.9	2.3	2.6	2.2	1.6	1	0	0
Deep root watering-Trees in planting	8	35	31	1	0	0	0.2	0.3	0.5	0.6	0.6	0.5	0.4	0.2	0	0

