

1/8" = 1'-0"

PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	WATER USAGE
	TREES				
(2 . 2)	ARBUTUS MARINA	MARINA STRAWBERRY TREE	24" BOX		М
	BRACHYCHITON ACERIFOLIUS	AUSTRALIAN FLAME TREE	24" BOX		м
	ARECASTRUM ROMANZOFFINUM	QUEEN PALM	8' BTH		М
	CITRUS OR STONE FRUIT TREE		15 GAL		М
	CERCIDIUM 'DESERT MUSEUM'	PALO VERDE 'DESERT MUSEUM'	24" BOX		٧L
	PUNICA GRANATUM	POMGRANITE	15 GAL		М
	SHRUBS AGAVE ATTENUATA 'NOVA'	BLUE FOXTAIL AGAVE	5 GAL		L
	BOUGAINVILLEA ROSENKA	BOUGAINVILLEA	15 GAL		L
553	BOUGAINVILLEA 'TORCH GLOW'	BOUGAINVILLEA	15 GAL		L
$\stackrel{\sim}{\oplus}$	SALVIA LEUCANTHA	MEXICAN SAGE	5 GAL		L
Ŏ	AEONIUM SCHWARZKOPF	BLACK AEONIUM	5 GAL		L
<u> </u>	CALANDRINIA GRANDIFLORA	ROCK PURSLANE	5 GAL		L
	LAVATERA MARITIMA	MALLOW	5 GAL		L
Ŏ	KALANCHOE LUCCA	FLAPJACK PLANT	1 GAL		L
Ŏ	PHORMIUM TENAX 'EVENING GLOW'	NEW ZEALAND FLAX	5 GAL		L
$\overline{\bullet}$	SENECIO BARBERTONICUS	SUCCULENT BUSH	5 GAL		L
©	PHLOMIS FRUTICOSA	JERUSALEM SAGE	5 GAL		L
(CEONOTHUS 'YANKEE POINT'	MOUNTAIN LILAC	5 GAL		L
	<u>VINES</u>				
n.	BIGNONIA VINES	RED/VIOLET TRUMPET VINE	15 GAL		М
	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	15 GAL		М
	GROUNDCOVER				
	ARMERIA MARITIMA	SPENDTHRIFT	6" POT	12" O.C.	М
	BULBINE FRUTESCENS	BULBINE	1 GAL	12" O.C.	L
	COREOPSIS 'SUN RAY'	COREOPSIS	1 GAL	18" O.C.	L
* * * * * * * * * * * * * * * * * * * *	DYMONDIA MARGARETAE	DYMONDIA	1 GAL	12" O.C.	L
	ECHEVERIA ELEGANS	HENS AND CHICKS	1 GAL	6" O.C.	L
	KALANCHOE BLOSSFELDIANA	CHRISTMAS KALANCHOE	1 GAL	6" O.C.	L
	SEDUM 'AUTUMN JOY'	SEDUM 'AUTUMN JOY'	1 GAL	18" O.C.	Ĺ.
S-	ABBREVIATIONS:				

ABBREVIATIONS: M MODERATE L LOW VL VERY LOW



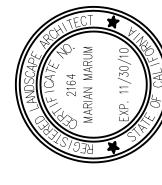
FRIENDLY

JOB . DATE 06-09-10 **REVISIONS** \triangle

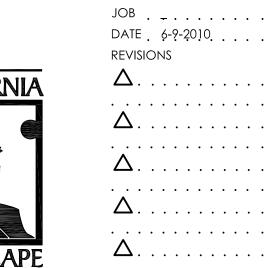
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PLANTING PLAN

L-







IRRIGATION

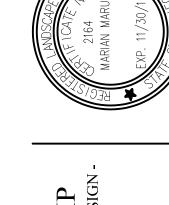
PLAN

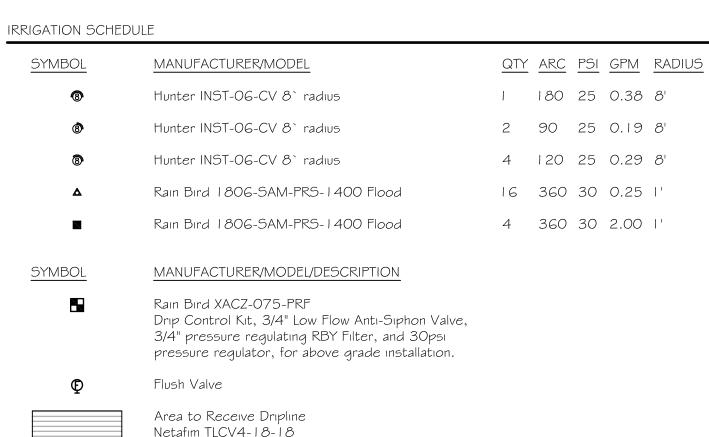
L-2

landscape archttecture *Irrigation design* 970 Woodlake Drive Cardiff by the Sea California 92007

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CALIFORNIA





Netafım TLCV4-18-18 Landscape Dripperline with 0.4gph emitters at 18" o.c. with check valve, pressure compensation, 14.7psi min. to 50psi max. Dripperline laterals spaced at 18" apart, with emitters offset for trıangular pattern.

> Area to Receive Dripline Netafım TLCV6-12-12 Landscape Dripperline with O.6gph emitters at 12" o.c. with check valve, pressure compensation, 14.7psi min. to 50psi max. Dripperline laterals spaced at 12" apart, with emitters offset for trıangular pattern.

SYMBOL MANUFACTURER/MODEL/DESCRIPTION

> Raın Bırd ASVF Electric Remote Control Valve, with Atmospheric Backflow Preventer

Champion B-402 Garden Valve Install on riser staked to 4x4 redwood post.

PVC Scheule 80 Ball Valve, Slip X Slip

Rain Bird ESP-SMT4 with (1) ESP-SM3 7 station, wall mount, outdoor controller with tipping bucket rain sensor

Wilkins 500 HLR Series Pressure Reducing Valve Point of Connection I"

Tie in at water service line. ------ Irrigation Lateral Line: PVC Schedule 40

— — Irrigation Mainline: PVC Class 315 SDR 13.5

Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges

of paving or construction. Valve Callout ─ Valve Number

Pet Friendly Water Wise Garden Water Budget Calculations

Maximum Applied Water Allowance (MAWA)

MAWA = (Eto)(0.62)(0.7xLA)

46.6 x 0.62 x 0.7 x 2939

59440 Gallons per Year 79 Units (100cf) per Year

Estimated Total Water Use (ETWU)

ETWU = [(Eto)(0.62)(PFxHA)]/IE								
Hydrozone 1	55.1 x	0.62	х	0.3	х	175	=	2242
Rotating Sprinklers		8.0						
Hydrozone 2	55.1 x	0.62	x	0.6	х	336	=	7652
Med. Req. Drip		0.9						
Hydrozone 3	55.1 x	0.62	х	0.3	x	1389	_ =	15817
Low Req. Drip		0.9						
Hydrozone 4	55.1 x	0.62	х	0.6	х	394	=	10095
Bubblers		0.8						
Irrigated Landscape						2294		35806
						ETIANI.		40

Sallons per Year Maximum Allowable Water Use

Difference

60% Of Allowance Assumes Eto of 55.1 inches (CIMIS Zone 9 South Coast Marine to Desert Transition)

Total Estimated Water Use

0.62 = Conversion factor to gallons per square foot 0.7 = ET adjustment factor (plant factor x irrigation efficiency)

PF = Average plant factor for each hydrozone (WUCOLS)

Where: Eto = Evapotranspiration in inches per year

LA = Landscaped Area

HA = Hydrozone area in square feet

IE = Irrigation efficiency of irrigation method used in hydrozone

Runtime

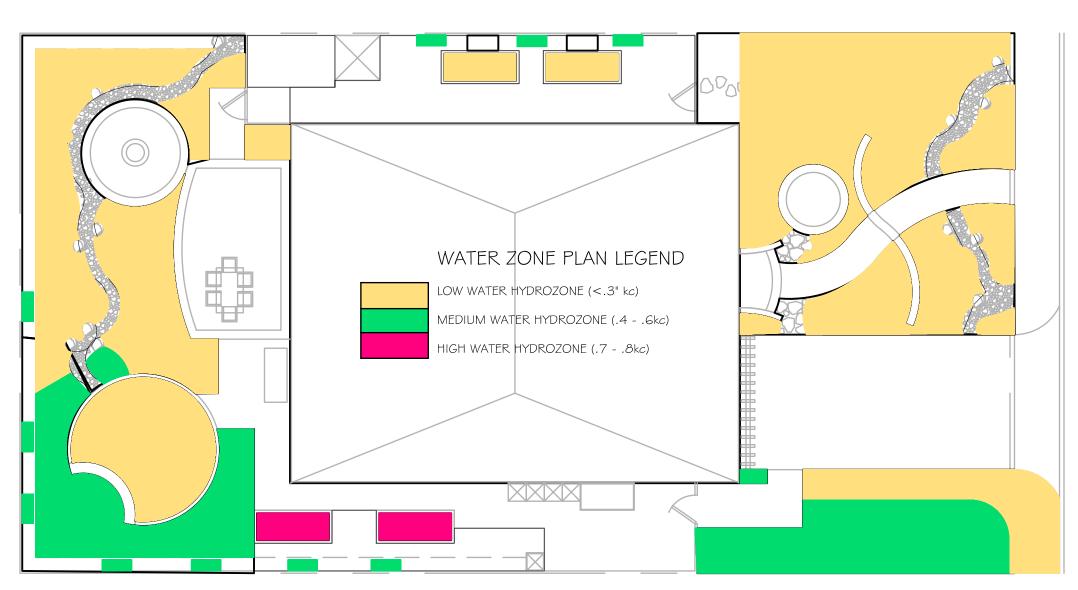
5 Minutes

I. All irrigation shown is diagrammatic only. All pipe and drip tubing would be laid

2. Vegetable garden was not zoned or scheduled as planting requirements would vary depending on planting.

3. Irrigation schedules are for reference purposes only. Actual schedule would be based on performance observations of run-off, local weather conditions and plant health/stress and would be regulated by Controller Weather Sensor system. 4. All pvc pipe to be sch. 40 with mainline buried 18" and laterals buried 12".

Establishment Schedule		Post-Establishment Schedule													
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
			Weekly Eto	0.48	0.62	0.90	1.13	1.31	1.47	1.65	1.52	1.27	0.90	0.60	0.41
Hydrozone 1 (Station 3) PF=0.3		Adj. Eto	0.14	0.19	0.27	0.34	0.39	0.44	0.50	0.45	0.38	0.27	0.18	0.12	
Rotating Sprinklers 0.6 Inches per Week			0.16	0.21	0.31	0.39	0.45	0.50	0.56	0.52	0.43	0.31	0.20	0.14	
Days On	6		Days On	1	1	2	2	3	3	3	3	3	2	1	1
Cycles	2		Cycles	1	1	1	1	1	1	1	1	1	1	1	1
Runtime	4 Minute	s	Runtime	10	13	9	12	9	10	11	10	9	9	12	8
			Min./Wk	10	13	18	23	27	30	34	31	26	18	12	8
Hydrozone 2 (Station 5) PF=0.6		Adj. Eto	0.29	0.37	0.54	0.68	0.79	0.88	0.99	0.91	0.76	0.54	0.36	0.25	
Drip Med.	1.1 Inc	hes per Week		1.07	1.38	1.99	2.52	2.91	3.26	3.67	3.37	2.81	1.99	1.33	0.92
Days On	6		Days On	2	2	2	2	3	3	3	3	3	2	2	2
Cycles	1		Cycles	1	2	2	2	2	3	3	3	2	2	2	1
Runtime	42 Minute	s	Runtime	32	21	30	38	29	22	24	22	28	30	20	28
			Min./Wk	64	83	119	151	175	196	220	202	169	119	80	55
Hydrozone 3 (Stations 1, 2) PF=0.3		Adj. Eto	0.14	0.19	0.27	0.34	0.39	0.44	0.50	0.45	0.38	0.27	0.18	0.12	
Drip Low	. ,	hes per Week	,	0.54	0.69	1.00	1.26	1.45	1.63	1.84	1.68	1.41	1.00	0.67	0.46
Days On	6	•	Days On	2	2	2	3	3	3	3	3	3	2	2	2
Cycles	1		Cycles	1	1	1	1	1	1	1	1	1	1	1	
Runtime	20 Minute	es	Runtime	16	21	30	25	29	33	37	34	28	30	20	14
			Min./Wk	32	41	60	76	87	98	110	101	84	60		28
Hydrozone 4 (Station 4) PF=0.6		Adj. Eto	0.29	0.37	0.54	0.68	0.79	0.88	0.99	0.91	0.76	0.54	0.36	0.25	
Bubblers	,	ches per Week		0.12	0.16	0.22	0.28	0.33					0.22		0.10
Days On	6	•	Days On	2	2	-		3	3						2
Cycles	1		Cycles	1	2	2	2	2	2	2	2	2	2	2	



Rows of drip tubing to provide

of all plants.

Medium water use trees on —

separate irrigation zone.

Bubblers provided for ——

individual vines along fence.

"total wetted area" in root zone

WATER ZONE PLAN



Pressure regulator required for irrigation system due to high street pressure. If pressure at street exceeds

80 psi, then a pressure regulator is required in addition

Primary irrigation shut-off. —

Sleeve for laterals under

Medium water requirement roses,

vines and citrus provided with

bubblers all on one circuit.

concrete.

to pressure reducers on drip assemblies.

Water service to residence.

Controller wire sleeve

Pipe shown outside property

be located within property.

for clarity only. All pipe would

under concrete.

drip tubing.

PVC header line installed to provide

quick even distribution of water to all

Irrigation provided to vegetable beds

if rain water unavailable.

IRRIGATION PLAN

- 6" pop-up Rotating Sprinklers

used for low water

 Ball valves to control water to individual beds.

1/8" = 1'-0"

requirement lawn.

BASIS OF_DESIGN

THIS GARDEN DESIGN IS FOCUSED ON CREATING AN ENVIRONMENT THAT ENHANCES THE QUALITY OF LIFE FOR ALL MEMBERS OF THE FAMILY,

INCLUDING THE PETS! IT IS CONDUCIVE TO A VARIETY OF OUTDOOR EXPERIENCES AND PROMOTES REWARDING INTERACTIONS BETWEEN PEOPLE, ANIMALS, AND NATURE. dROUGHT TOLERANT PLANTS, A SMART IRRIGATION SYSTEM, PAVED PATIO AREAS FOR OUTDOOR LIVING, AND PET FRIENDLY AMENITIES COMBINE TO FROM A GARDEN FOR ALL SEASONS.

PREPARING YOUR SOIL

HEALTHY SOIL IS VITAL TO WATER CONSERVATION AND A HEALTHY ENVIRONMENT

SOIL CONDITIONING WITH ORGANIC AMENDMENTS USES LESS WATER, LESS FERTILIZER, LESS PESTICIDES. INDEPENDANT GARDEN CENTERS ARE EXTREMELY KNOWLEDGABLE ABOUT SOIL ADDITIVES AND TESTING.

SITE ARCHITECTURE/ OUTDOOR ROOMS

FIREPIT PATIO:

CREATES ATTRACTIVE OUTDOOR ROOM; FLAGSTONE OR PERMEABLE PAVING REDUCES NEED FOR WATER AND ALLOWS FOR SLOW DRAINAGE

MORNING PATIO:

OFFERS 'VARIETY', A DIFFERENT PERSPECTIVE ON THE GARDEN, A VENUE FOR SOCIALIZATION WITH THE NEIGHBORS

SUNSET PATIO:

FAMILY MEALS CAN BE ENJOYED IN OUTSIDE 'DINING ROOM'

LANDSCAPE WALLS:

ARCHITECTURAL ELEMENT IN THE LANDSCAPE, ADDS TO 'CURB APPEAL', CHARM, AND SENSE OF PRIVACY

GRACIOUS ENTRY STOOP:

CURVED LOW WALLS WELCOME GUESTS WITH 'OPEN ARMS'

CURVED GUEST ENTRY WALK:

CURVED WAYFINDING ELEMENT INVITES GUESTS TO 'STROLL' THROUGH GARDEN SPACE FROM STREET PARKING SPACE TO FRONT DOOR

STORAGE YARD:

SIDE OF GARAGE (NO WINDOWS) IS PERFECT FOR UTILITY SHED AND GARDEN STORAGE

BOTANICAL ELEMENTS

1. ACCENT TREES:

PROVIDES SHADE, VISUAL INTEREST, AND COLOR

2. ACCENT SHRUBS:

ROSES:

ADDS SEASONAL BEAUTY TO GARDEN AND CUT ROSES ADD 'SENSE OF CONNECTION' TO NATURE INSIDE THE HOME

3. SUCCULENT DISPLAY/MOUND

RAISED SOIL MOUND LET'S YOU 'SHOW OFF' YOUR FAVORITE SUCCULENTS

4. ACCENT VINES

VINE ON TRELLIS OVER GARAGE DOOR:

ADDS CHARM AND CURB APPEAL YEAR ROUND

VINE ON FENCE: SOFTENS THE VIEW







SUSTAINABLE MEASURES

SOLAR PANELS ON ROOF: MAKES THE MOST OF NATURE'S GIFTS

WATER HOG RAIN BARRELS: COLLECTS RAINFALL AND GRAVITY FEEDS WATER TO GARDEN

COMPOST BIN:

COFFEE, BANANA PEELS, KITCHEN GREENS CAN BENEFIT GARDEN SOIL THROUGH NATURAL ENRICHMENT, BOOST PRODUCTIVITY AND REDUCE NEED FOR FERTILIZERS

GRAVEL OR BARK MULCH (2" LAYER):

ORGANIC MULCH HOLDS MOISTURE IN SOIL, DECOMPOSES, ADDS NITROGEN TO SOIL NATURALLY

RAISED BED (VEGETABLES/HERBS):

USE SPECIAL SOIL FOR CULTIVATION OF ORGANIC VEGETABLES-AND HERBS

GARDEN TEXTURE AND PATTERNS

STEPPING STONES:

PROVIDES INTEREST AND A VISUAL CLUE THAT PATH IS LESS 'IMPORTANT' THAN A SOLID WALKWAY

DECORATIVE PATTERN IN CONCRETE DRIVEWAY: PATTERN CAN BE 'CUT' INTO EXISTING CONCRETE FOR LOW COST WAY TO ADD TEXTURE AND INTEREST

BOULDERS:

ADDS NATURAL INTEREST AND PROVIDES 'FOCAL POINT/PUNCUATION IN THE LANDSCAPE COMPOSITION

DRY 'RIVERBED':

'UNITES' THE LANDSCAPE WITH A 'RIBBON' OF TEXTURE

PET FRIENDLY ELEMENTS

PESTICIDES THAT ARE PET FRIENDLY ARE BECOMING MORE COMMON. cHECK WITH PET STORES AND GARDEN CENTERS

K-9 GRASS:

SMALL PATCH OF ARTIFICIAL TURF OFFERS SOFT AND DURABLE BEDDING FOR 'NAPS'

DOG RUN:

LOCATED ON NORTH SIDE OF HOUSE TO PROVIDE SHADE. VISUALLY OPEN FENCE ALLOWS PET TO SEE ENTIRE BACKYARD

DOG HOUSE:

PROVIDES SENSE OF SECURITY, COMFORT, AND PROTECTION FROM WEATHER

RAISED PLANTER BOX:

RAISED PLANTERS TO MINIMIZE DAMAGE TO PLANTS FORM PETS DIGGING

CANINE 'PATROL' PATH:

CANINES 'PATROL' THE PERIMETER OF THEIR TERRITORY SO BY KEEPING A PATH THAT IS PLANT FREE REDUCES DAMAGE TO THE LANDSCAPE







DATE 6-9-2010

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L-3

VINES

PLANT PHOTOS

L-4







CERCIDIUM 'DESERT MUSEUM' PALO VERDE 'DESERT MUSEUM'



TREES

EUPHORBIA TIRUCALI

STICKS ON FIRE

ARBUTUS MARINA

ARECASTRUM

QUEEN PALM

ROMANZOFFINUM

TREE

MARINA STRAWBERRY



BRACHYCHITON ACERIFOLIUS AUSTRALIAN FLAME TREE

AGAVE ATTENUATA 'NOVA'







CEONOTHUS 'YANKEE POINT' MOUNTAIN LILAC



BOUGAINVILLEA ROSENKA BOUGAINVILLEA



SALVIA LEUCANTHA MEXICAN SAGE



AEONIUM SCHWARZKOPF BLACK AEONIUM



KALANCHOE THRYSIFOLIA FLAPJACK PLANT



BOUGAINVILLEA 'TORCH GLOW'

BOUGAINVILLEA

CALANDRINA SPECTABLIS ROCK PURSLANE



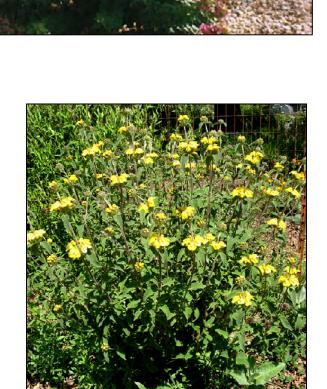
LAVATERA MARITIMA MALLOW



KALANCHOE BLOSSFELDIANA CHRISTMAS KALANCHOE



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PHLOMIS FRUTICOSA JERUSALEM SAGE



COREOPSIS GRANDIFLORA SUNRAY COREOPSIS



SEDUM 'AUTUMN JOY' SEDUM



JASMINOIDES

STAR JASMINE

BIGNONIA

TRUMPET VINE

TRACHELOSPERMUM

ARMERIA MARITIMA SPENDTHRIFT



BULBINE FRUTESCENS STALKED BULBINE

GROUND COVERS



BLUE FOXTAIL AGAVE

SENECIO

BARBERTONICUS