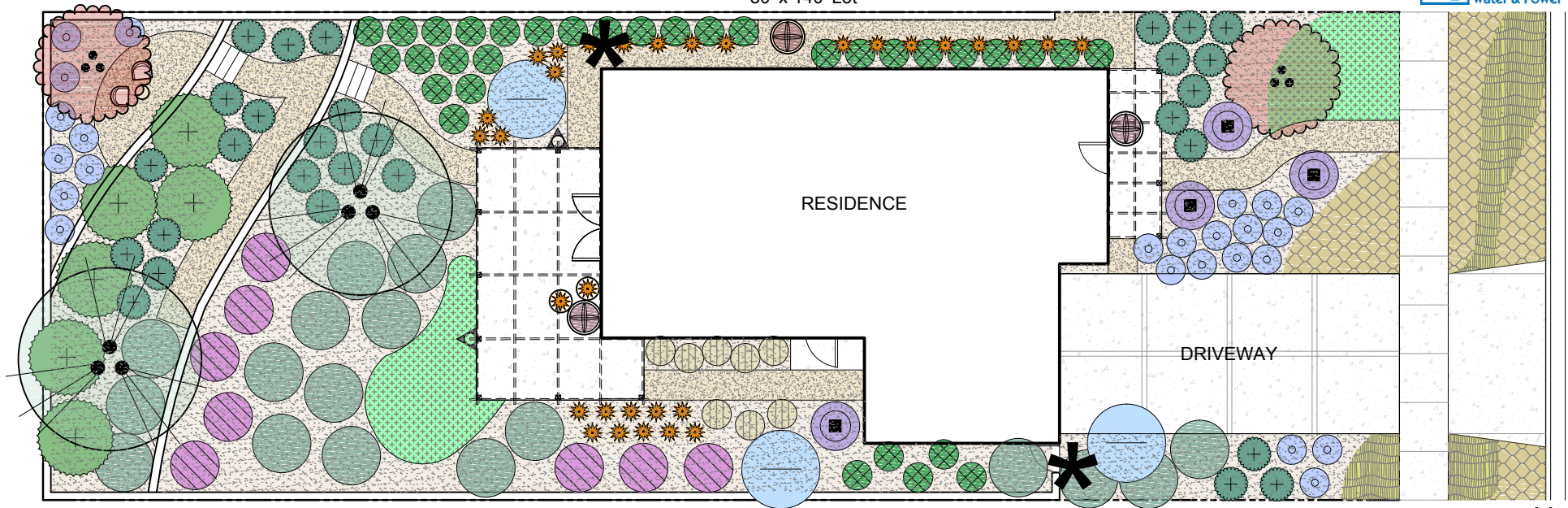


FOOTHILLS

Planting Plan

50' x 140' Lot



LEGEND

TREES	BOTANICAL NAME	COMMON NAME	SIZE	SPACING*	SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	SPACING*
	PLATANUS RACEMOSA (MULTI-TRUNK)	CALIFORNIA SYCAMORE	15 GAL			CEANOTHUS 'RAY HARTMAN'	RAY HARTMAN CALIFORNIA WILD LILAC	1 GAL	96" O.C.
	HETEROMELES ARBUTIFOLIA (MULTI-TRUNK)	TOYON	15 GAL			LEUCOPHYLLUM FRUTESCENS	TEXAS RANGER	1 GAL	60" O.C.
VINE						BACCHARIS PILULARIS 'PIGEON POINT'	PIGEON POINT DWARF COYOTE BRUSH	1 GAL	96" O.C.
	MACFADYENA UNGUIS-CATI	YELLOW TRUMPET VINE	1 GAL			LEYMUS CONDENSATUS 'CANYON PRINCE'	CANYON PRINCE WILD RYE	1 GAL	36" O.C.
GROUNDCOVERS						VERBENA LILACINA 'DE LA MINA'	DE LA MINA CEDROS ISLAND VERBENA	1 GAL	60" O.C.
	ACHILLEA MILLEFOLIUM	COMMON YARROW	4" POT	12" O.C.		SALVIA GREGGII 'FURMAN'S RED'	FURMAN'S RED AUTUMN SAGE	1 GAL	36" O.C.
	ACHILLEA 'MOONSHINE'	MOONSHINE YARROW	4" POT	12" O.C.		COTONEASTER DAMMERI	BEARBERRY COTONEASTER	1 GAL	72" O.C.
	MYOPORUM PARVIFOLIUM	GROUNDCOVER MYOPORUM	FLAT	12" O.C.		PHLOMIS FRUTICOSA	JERUSALEM SAGE	1 GAL	36" O.C.
	MULCH	3" LAYER. CLICK HERE FOR INFORMATION ON FREE CITY MULCH				RIBES VIBURNIFOLIUM	EVERGREEN CURRANT	1 GAL	36" O.C.
PERMEABLE PAVING						HESPERALOE PARVIFLORA	RED YUCCA	1 GAL	
	DECOMPOSED GRANITE					ALOE STRIATA	CORAL ALOE	1 GAL	

* O.C. = ON CENTER SPACING



Rain Barrel – can be added at a downspout to qualify for turf rebate

FOOTHILLS Plant Images & Care Instructions

These plants are widely available at Home Improvement Stores and Nurseries.



= California Native

Trees



**CALIFORNIA SYCAMORE
(MULTI-TRUNK)**



Platanus racemosa
Full sun, low water



TOYON (MULTI-TRUNK)



Heteromeles arbutifolia
Sun/shade, low water

Shrubs



**RAY HARTMAN
CALIFORNIA WILD LILAC**



Ceanothus
'Ray Hartman'
Full sun, low water



TEXAS RANGER

Leucophyllum frutescens
Full sun, low water



**PIGEON POINT DWARF
COYOTE BRUSH**



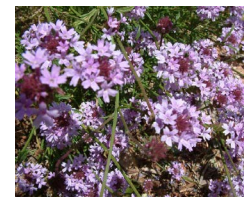
Baccharis pilularis
'Pigeon Point'
Full sun, moderate water



**CANYON PRINCE
WILD RYE**



Leymus condensatus
'Canyon Prince'
Full sun, low water



**DE LA MINA CEDROS
ISLAND VERBENA**



Verbena lilacina
'De La Mina'
Cool sun/ light shade,
Low water



**FURMAN'S RED
AUTUMN SAGE**

Salvia greggii
'Furman's Red'
Full sun, low water



**BEARBERRY
COTONEASTER**

Cotoneaster dammeri
Full sun, low water



JERUSALEM SAGE

Phlomis fruticosa
Full sun, low water



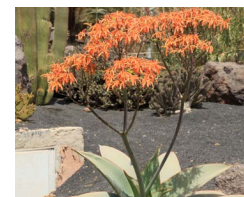
EVERGREEN CURRANT

Ribes viburnifolium
Sun/shade, low water



RED YUCCA

Hesperaloe parviflora
Full sun, very low water



CORAL ALOE

Aloe striata
Full sun, low water

Groundcovers



COMMON YARROW



Achillea millefolium
Full sun,
moderate water



MOONSHINE YARROW

Achillea 'Moonshine'
Full sun, low water



**GROUNDCOVER
MYOPORUM**

Myoporum parvifolium
Sun/shade, low water

Vine



YELLOW TRUMPET VINE

Macfadyena unguis-cati
Full sun, low water

Permeable Paving

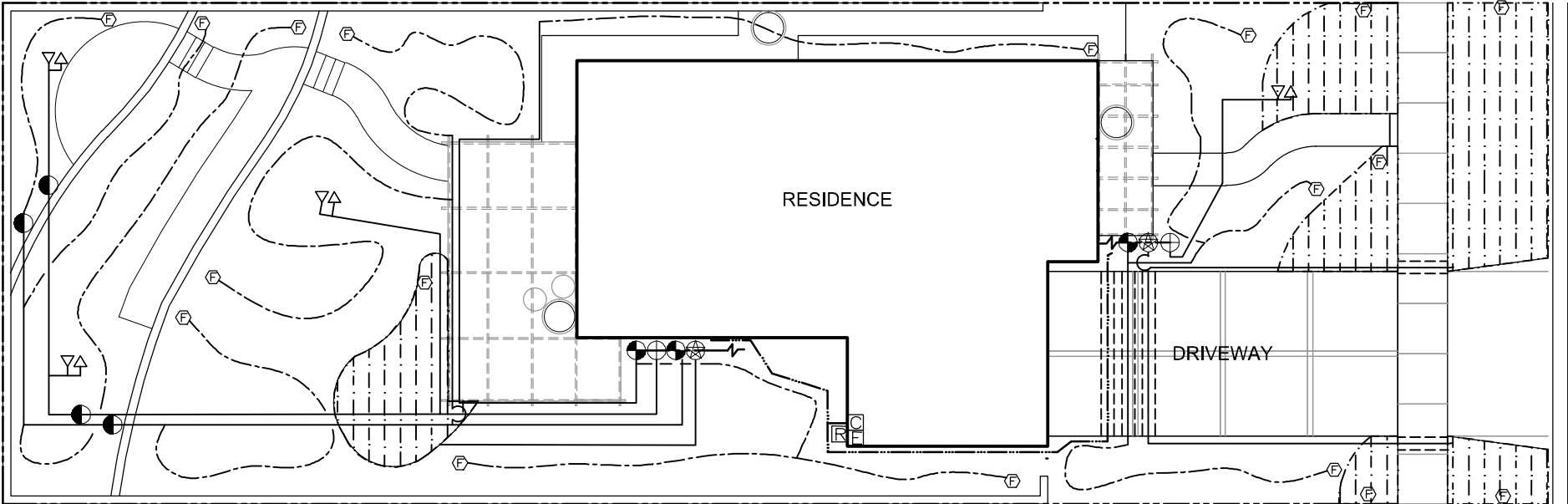


DECOMPOSED GRANITE

FOOTHILLS

Irrigation Plan

50' x 140' Lot



LEGEND

SYMBOL	EQUIPMENT	DESCRIPTION
	EXISTING IRRIGATION MAINLINE	CONNECT TO EXISTING IRRIGATION MAINLINE
	PVC LATERAL	PVC PIPE 3/4" - 1" SCHEDULE 40
	PVC SLEEVE	PVC PIPE SCHEDULE 40 SLEEVING
	VALVE WIRE	IRRIGATION CONTROL WIRE #18UF
	SMART CONTROLLER	WEATHER BASED CONTROLLER
	SENSOR	RAIN/TEMPERATURE SENSOR
	N/A	ELECTRICAL OUTLET
	SHRUB DRIP VALVE	DRIP AUTOMATIC CONTROL VALVE ASSEMBLY
	GROUND COVER DRIP VALVE	DRIP AUTOMATIC CONTROL VALVE ASSEMBLY
	ATMOSPHERIC VACUUM BREAKER	ADDITIONAL BACKFLOW PREVENTION FOR TERRACE
	TREE VALVE	AUTOMATIC CONTROL VALVE ASSEMBLY
	BLANK DRIP TUBING FOR SHRUB AREAS	1/2" BLANK FLEXIBLE TUBING
	GROUND COVER DRIP TUBING	INLINE DRIP TUBING WITH BUILT-IN EMITTERS
	FLUSH CAP	2 BUBBLERS PER TREE
	BUBBLER FOR TREES	BUBBLER

NOTE: LAYOUT SHOWN IS DIAGRAMMATIC.
ADJUST TO FIT ACTUAL CONDITIONS.



2 BUBBLERS PER TREE
(≤4 GAL/HR)



DRIP TUBING WITH 1 OR 2 DRIP
EMITTER(S) PER SHRUB



INLINE DRIP TUBING GRID
WITH EVEN SPACING
BETWEEN DRIP LINES FOR
GROUND COVER AREAS



SMART CONTROLLER
USING REAL TIME
WEATHER DATA



RAIN SENSOR



AUTOMATIC CONTROL
VALVE ASSEMBLY



MICRO-SPRAY DRIP
SPRINKLER

FOOTHILLS

Irrigation Installation

LEGEND

SYMBOL	EQUIPMENT	INSTALLATION
	EXISTING IRRIGATION MAINLINE	CONNECT TO EXISTING IRRIGATION MAINLINE BY REPLACING EXISTING SPRINKLER VALVES WITH NEW REDUCED PRESSURE DRIP VALVES (10 GALLONS PER MIN. MAX. FLOW) USING 1" PVC SCHEDULE 40 PIPE. STATIC WATER PRESSURE TO BE 45 POUNDS PER SQUARE INCH TO ACCOMMODATE THIS DESIGN.
	PVC LATERAL	PVC PIPE 3/4" - 1" SCHEDULE 40 LATERAL LINES, 12" BELOW GRADE.
	PVC SLEEVE	PVC PIPE SCHEDULE 40 SLEEVING, TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED. PLACE BELOW PAVING.
	VALVE WIRE	IRRIGATION CONTROL WIRE #18UF ALUMINUM WIRE GAUGE DIRECT BURIAL, 6 -WIRE STRAND, BURIED 6" DEEP (U.L. APPROVED).
NO SYMBOL	WIRE NUT	WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS (U.L. APPROVED).
	SMART CONTROLLER	WEATHER BASED CONTROLLER UTILIZING PAID WEATHER SUBSCRIPTION, RAIN/TEMPERATURE SENSOR OR WIFI. INTERIOR WALL MOUNT.
	SENSOR	RAIN/TEMPERATURE SENSOR. MOUNT TO EAVE OF ROOF IN FULL SUN EXPOSURE AND WIRE TO CONTROLLER.
	N/A	120 VOLT ELECTRICAL POWER OULET.
	SHRUB DRIP VALVE	1" DRIP AUTOMATIC CONTROL VALVE ASSEMBLY W/ ANTI-SIPHON VALVE, 1" FILTER AND 40 PSI REGULATOR. INSTALL 6" ABOVE HIGHEST POINT. 3/4" DRIP VALVE ASSEMBLIES CAN BE USED FOR FLOWS LESS THAN 5 GALLONS PER MINUTE.
	GROUND COVER DRIP VALVE	1" DRIP AUTOMATIC CONTROL VALVE ASSEMBLY W/ ANTI-SIPHON VALVE, 1" FILTER AND 40 PSI REGULATOR. INSTALL 6" ABOVE HIGHEST POINT. 3/4" DRIP VALVE ASSEMBLIES CAN BE USED FOR FLOWS LESS THAN 5 GALLONS PER MINUTE.
	ATMOSPHERIC VACUUM BREAKER	3/4" ATMOSPHERIC VACUUM BREAKER WITH CHECK VALVE ON DOWNSTREAM SIDE. INSTALL 6" ABOVE THE HIGHEST POINT ON THE TERRACES.
	TREE VALVE	3/4" AUTOMATIC CONTROL VALVE ASSEMBLY W/ ANTI-SIPHON VALVE. INSTALL 6" ABOVE HIGHEST POINT.
	BLANK DRIP TUBING FOR SHRUBS	1/2" BLANK FLEXIBLE TUBING (100' MAX. LENGTH), CONNECTED TO PVC LATERAL LINE WITH 2 MICRO-SPRAY DRIP SPRINKLERS PUNCHED INTO TUBING AT EACH SHRI. INSTALL ON-GRADE BELOW MULCH.
NO SYMBOL	MICRO-SPRAY DRIP SPRINKLERS FOR SHRUBS	PRESSURE COMPENSATING MICRO-SPRAY DRIP SPRINKLERS (1.0 GALLON PER HOUR); TWO PER SHRUB. 300 SHRUBS CAN BE PLANTED USING A 1" VALVE AT ROUGHLY 10 GALLONS PER MINUTE. 150 SHRUBS CAN BE PLANTED USING A 3/4" VALVE AT ROUGHLY 5 GALLONS PER MINUTE.
NO SYMBOL	EMITTER STAKE FOR SHRUBS	ONE EMITTER STAKE PER MICRO-SPRAY DRIP SPRINKLER CONNECTED WITH 6' OF 1/4" TUBING TO BLANK DRIP TUBING.
	GROUND COVER DRIP TUBING	INLINE DRIP TUBING WITH BUILT-IN EMITTERS EVERY 18" ON CENTER WITH A ROW SPACING OF 18" AND AN EMITTER FLOW OF 0.6 GPH. ALL TUBING SHALL BE INSTALLED ON GRADE BELOW MULCH W/ WIRE STAKES EVERY 5' ON CENTER. 2000 S.F. MAXIMUM AREA TO CREATE A FLOW OF ROUGHLY 10 GALLONS PER MINUTE. 1000 S.F. MAXIMUM AREA TO CREATE A FLOW OF ROUGHLY 5 GALLONS PER MINUTE.
	FLUSH CAP	1/2" BARB X 3/4" THREAD W/ PLASTIC CAP AS A FLUSH POINT. ONE REQUIRED AT THE END OF EACH TUBING LENGTH.
NO SYMBOL	DRIP FITTINGS	ALL CONNECTIONS BETWEEN DRIPLINE TUBING SHALL BE MADE USING 1/2" BARB X BARB FITTINGS. ALL CONNECTIONS BETWEEN DRIPLINE TUBING AND PVC SHALL BE MADE USING 1/2" BARB X 1/2" THREAD.
	BUBBLERS FOR TREES	BUBBLER ON PVC SCHEDULE 80 RISER, TWO PER TREE.

CLICK [HERE](#) FOR MORE INFORMATION ABOUT IRRIGATION.



Drip Irrigation Valve Kit comes with the following:

- Low Flow Anti-siphon Valve—must be 6 inches above the highest drip tubing (this is not a typical sprinkler valve)
- Pressure Regulator (usually set at 30 psi)
- Filter

Pipes include:

- Above the ground pipe—PVC schedule 80 or copper
- Below the ground pipe - PVC schedule 40

IMAGE COURTESY OF SANTA MONICA OFFICE OF SUSTAINABILITY AND THE ENVIRONMENT