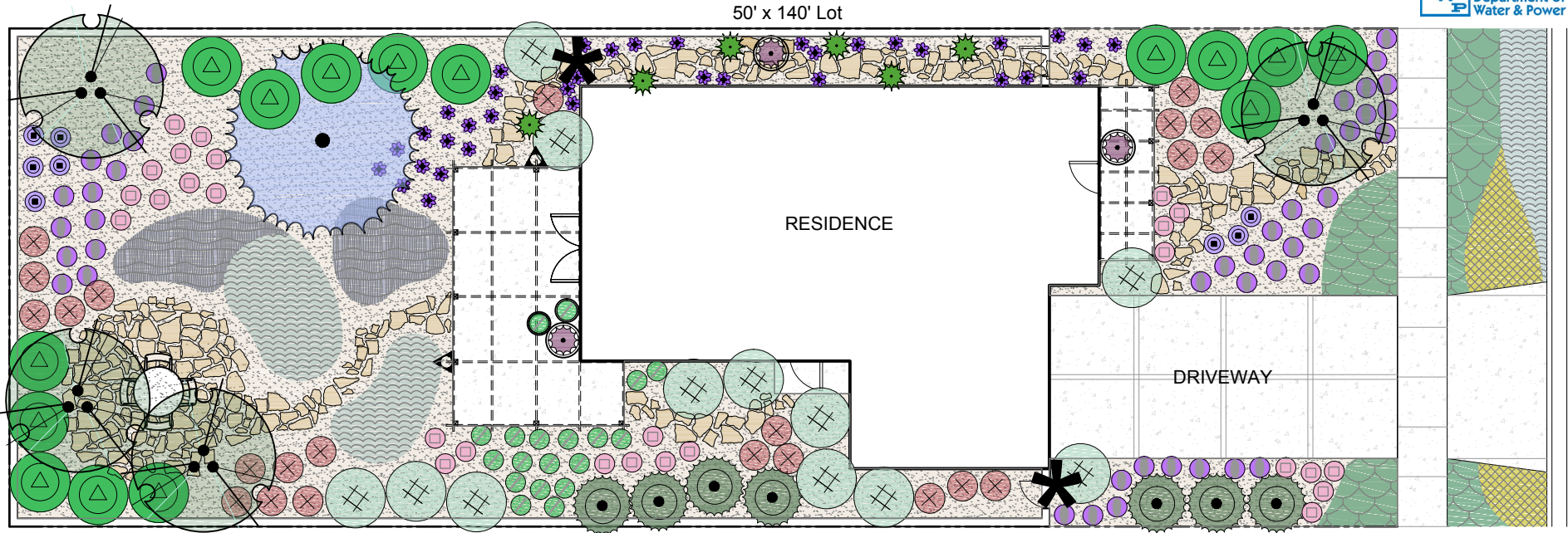


L.A. BASIN

Planting Plan

50' x 140' Lot



LEGEND

TREES	BOTANICAL NAME	COMMON NAME	SIZE	SPACING*	SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	SPACING*
	JACARANDA MIMOSIFOLIA	JACARANDA	15 GAL			CORREA 'IVORY BELLS'	IVORY BELLS AUSTRALIAN FUCHSIA	1 GAL	72" O.C.
	OLEA EUROPA 'SWAN HILL' (MULTI-TRUNK)	SWAN HILL FRUITLESS OLIVE	15 GAL			ROSMARINUS OFFICINALIS 'TUSCAN BLUE'	TUSCAN BLUE UPRIGHT ROSEMARY	1 GAL	72" O.C.
VINE						LAURUS NOBILIS	SWEET BAY	1 GAL	72" O.C.
	ROSA BANKSIAE 'LUTEA'	YELLOW LADY BANKS' ROSE	1 GAL			PHORMIUM 'AMAZING RED'	AMAZING RED FLAX	1 GAL	36" O.C.
GROUNDCOVERS						VERBENA BONARIENSIS	ARGENTINE VERBENA	1 GAL	60" O.C.
	ACHILLEA MILLEFOLIUM	COMMON YARROW	4" POT	18" O.C.		LAVANDULA ANGUSTIFOLIA 'MUNSTEAD'	MUNSTEAD LAVENDER	1 GAL	24" O.C.
	DYMONDIA MARGARETAE	DYMONDIA	FLAT	12" O.C.		ERIGERON KARVINSKIANUS	SANTA BARBARA DAISY	1 GAL	24" O.C.
	CHAMAEMELUM NOBILE	ROMAN CHAMOMILE	FLAT	12" O.C.		POLYSTICHUM MUNITUM	WESTERN SWORD FERN	1 GAL	36" O.C.
	DUCHESNEA INDICA	INDIAN MOCK STRAWBERRY	FLAT	12" O.C.		IRIS DOUGLASIANA	DOUGLAS IRIS	1 GAL	18" O.C.
	MULCH	3" LAYER. CLICK HERE FOR INFORMATION ON FREE CITY MULCH				VIBURNUM TINUS 'SPRING BOUQUET'	SPRING BOUQUET LAURUSTINUS	1 GAL	
						GERANIUM 'ROZANNE'	ROZANNE CRANESBILL	1 GAL	24" O.C.

PERMEABLE PAVING

SAND-SET FLAGSTONE

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

* O.C. = ON CENTER SPACING

L.A. BASIN

Plant Images & Care Instructions

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



= California Native

Trees



JACARANDA

Jacaranda mimosifolia
Full sun, moderate water



**SWAN HILL FRUITLESS
OLIVE**

Olea europaea 'Swan Hill'
Full sun, low water

Shrubs



**TUSCAN BLUE
UPRIGHT ROSEMARY**

Rosmarinus officinalis
'Tuscan Blue'
Full sun, low water



AMAZING RED FLAX

Phormium 'Amazing Red'
Sun/shade, moderate water



**IVORY BELLS
AUSTRALIAN FUCHSIA**

Correa 'Ivory Bells'
Sun/shade, low water



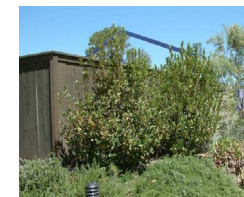
MUNSTEAD LAVENDER

Lavandula angustifolia
'Munstead'
Full sun, low water



ARGENTINE VERBENA

Verbena bonariensis
Full sun, low water



SWEET BAY

Laurus nobilis
Cool sun/light shade,
low water



SANTA BARBARA DAISY

Erigeron karvinskianus
Sun/shade, moderate water



**WESTERN
SWORD FERN**

Polystichum munitum
Shade, low water



DOUGLAS IRIS

Iris douglasiana
Sun/shade,
Moderate water



**SPRING BOUQUET
LAURUSTINUS**

Viburnum tinus 'Spring Bouquet'
Partial-full sun,
Moderate water



ROZANNE CRANESBILL

Geranium 'Rozanne'
Sun/shade, moderate water

Groundcovers



DYMONDIA

Dymondia margaretae
Full sun, moderate water



COMMON YARROW

Achillea millefolium
Full sun,
Moderate water



ROMAN CHAMOMILE

Chamaemelum nobile
Full sun, moderate water



**INDIAN MOCK
STRAWBERRY**

Duchesnea indica
Full sun, moderate water

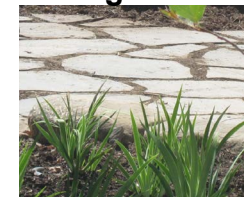
Vine



**YELLOW LADY
BANKS' ROSE**

Rosa banksiae 'Lutea'
Full sun, moderate water

Permeable Paving

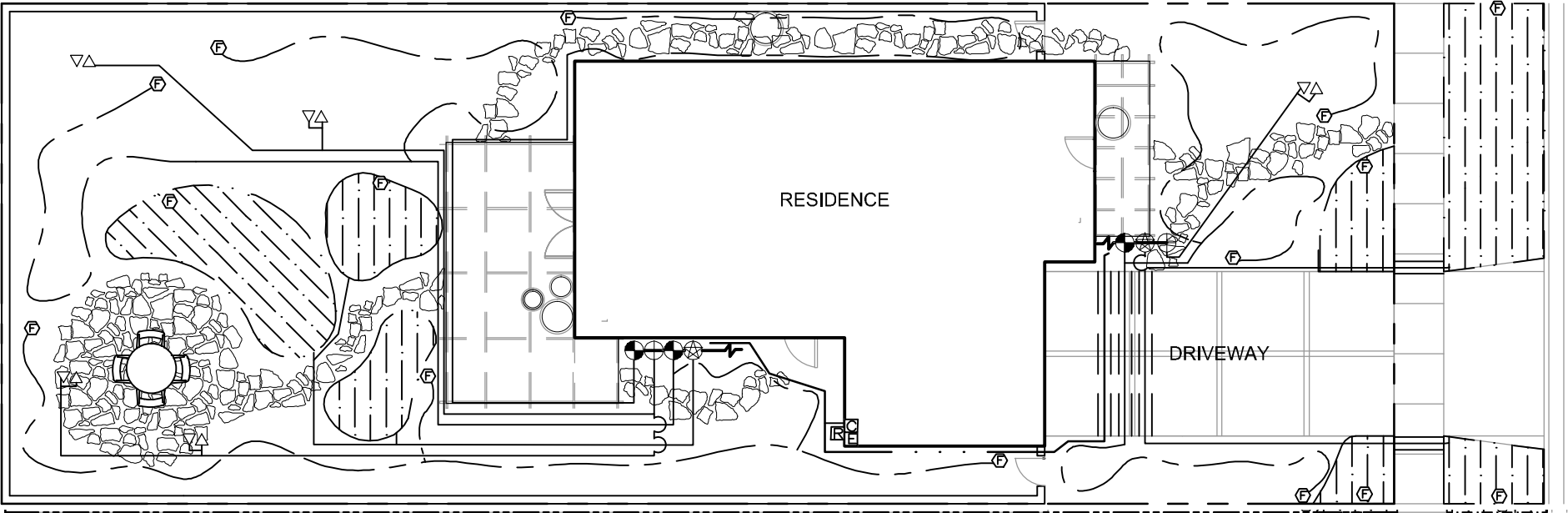


SAND-SET FLAGSTONE

L.A. BASIN

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
	GROUNDCOVER DRIP VALVE	DRIP AUTOMATIC CONTROL VALVE ASSEMBLY
	TREE VALVE	AUTOMATIC CONTROL VALVE ASSEMBLY
	DRIP TUBING FOR SHRUB AREAS	1/2" FLEXIBLE DRIP TUBING
	GROUNDCOVER DRIP TUBING	INLINE DRIP TUBING WITH BUILT-IN EMITTERS
	FLUSH CAP	SELF-FLUSHING END VALVE
	BUBBLER FOR TREES	2 BUBBLERS PER TREE

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
GROUNDCOVER AREAS



SMART CONTROLLER
USING REAL TIME
WEATHER DATA



RAIN SENSOR



AUTOMATIC CONTROL
VALVE ASSEMBLY



MICRO-SPRAY DRIP
SPRINKLER

L.A. BASIN

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.
	TREE VALVE	3/4" AUTOMATIC CONTROL VALVE ASSEMBLY W/ ANTI-SIPHON VALVE. INSTALL 6" ABOVE HIGHEST POINT.
	DRIP TUBING FOR SHRUBS	1/2" FLEXIBLE DRIP TUBING (100' MAX. LENGTH), CONNECTED TO PVC LATERAL LINE WITH 2 MICRO-SPRAY DRIP SPRINKLERS PUNCHED INTO TUBING AT EACH SHRUB. 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 1/2" 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