

50' x 140' Lot



LEGEND

TREES	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
	QUERCUS AGRIFOLIA	COAST LIVE OAK	15 GAL			FRANGULA CALIFORNICA 'EVE CASE'	EVE CASE COFFEEBERRY	1 GAL	72" O.C.
	CERCIS OCCIDENTALIS (MULTI-TRUNK)	WESTERN REDBUD	15 GAL			CISTUS X PURPUREUS	ORCHID ROCKROSE	1 GAL	60" O.C.
VINES						CEANOTHUS GRISEUS HORIZONTALIS 'YANKEE POINT'	YANKEE POINT CALIFORNIA WILD LILAC	1 GAL	72" O.C.
	HARDENBERGIA VIOLACEA 'HAPPY WANDERER'	HAPPY WANDERER LILAC VINE	1 GAL			MUHLENBERGIA CAPILLARIS 'REGAL MIST'	PINK MUHLY REGAL MIST	1 GAL	48" O.C.
GROUNDCOVERS						FESTUCA GLAUCA 'ELIJAH BLUE'	ELIJAH BLUE FESCUE	1 GAL	30" O.C.
	DYMONDIA MARGARETAE	DYMONDIA	FLAT	12" O.C.		SALVIA 'ALLEN CHICKERING'	ALLEN CHICKERING BLUE SAGE	1 GAL	36" O.C.
	THYMUS PRAECOX ARCTICUS 'ELFIN'	ELFIN CREEPING THYME	FLAT	12" O.C.		DIETES BICOLOR	FORTNIGHT LILY	1 GAL	24" O.C.
	MULCH	3" LAYER. CLICK HERE FOR INFORMATION ON FREE CITY MULCH				PHORMIUM 'PINK STRIPE'	PINK STRIPE FLAX	1 GAL	
PERMEABLE PAVING						AGAVE ATTENUATA	FOX TAIL AGAVE	1 GAL.	
	SAND-SET CONCRETE PAVERS								

* O.C. = ON CENTER SPACING



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

VALLEY

Plant Images & Care Instructions

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



= California Native

Trees



COAST LIVE OAK
Quercus agrifolia
Full sun, low water



WESTERN REDBUD
Cercis occidentalis
(Multi-trunk)
Sun/shade, low water

Shrubs



EVE CASE COFFEEBERRY
Frangula californica
'Eve Case'
Sun/shade, low water



ORCHID ROCKROSE
Cistus x purpureus
Full sun, moderate water



YANKEE POINT CALIFORNIA WILD LILAC
Ceanothus griseus
horizontalis 'Yankee Point'
Sun/shade, low water



PINK MUHLY REGAL MIST
Muhlenbergia capillaris
'Regal Mist'
Full sun, low water



ELIJAH BLUE FESCUE
Festuca glauca 'Elijah Blue'
Full sun, low water



ALLEN CHICKERING BLUE SAGE
Salvia 'Allen Chickering'
Full sun, low water



FORTNIGHT LILY
Dietes bicolor
Cool sun/light shade,
moderate water



PINK STRIPE FLAX
Phormium 'Pink Stripe'
Sun/shade, moderate water



FOX TAIL AGAVE
Agave attenuata
Sun/shade, low water

Groundcovers



DYMONDIA
Dymondia margaretae
Full sun, moderate water



ELFIN CREEPING THYME
Thymus praecox arcticus
'Elfin'
Full sun, low water

Vine

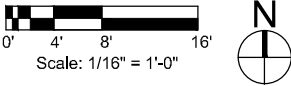
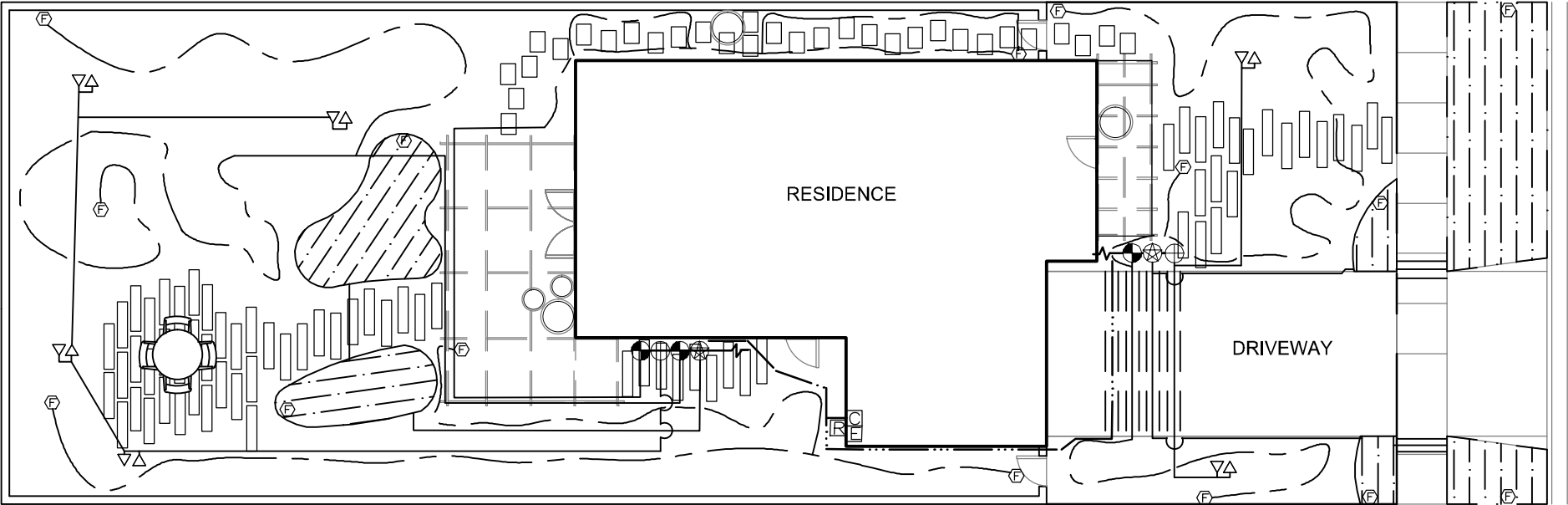


HAPPY WANDERER LILAC VINE
Hardenbergia violacea
'Happy Wanderer'
Sun/shade, low water

Permeable Paving



SAND-SET CONCRETE
PAVERS



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 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

VALLEY

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.
	GROUNDCOVER 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