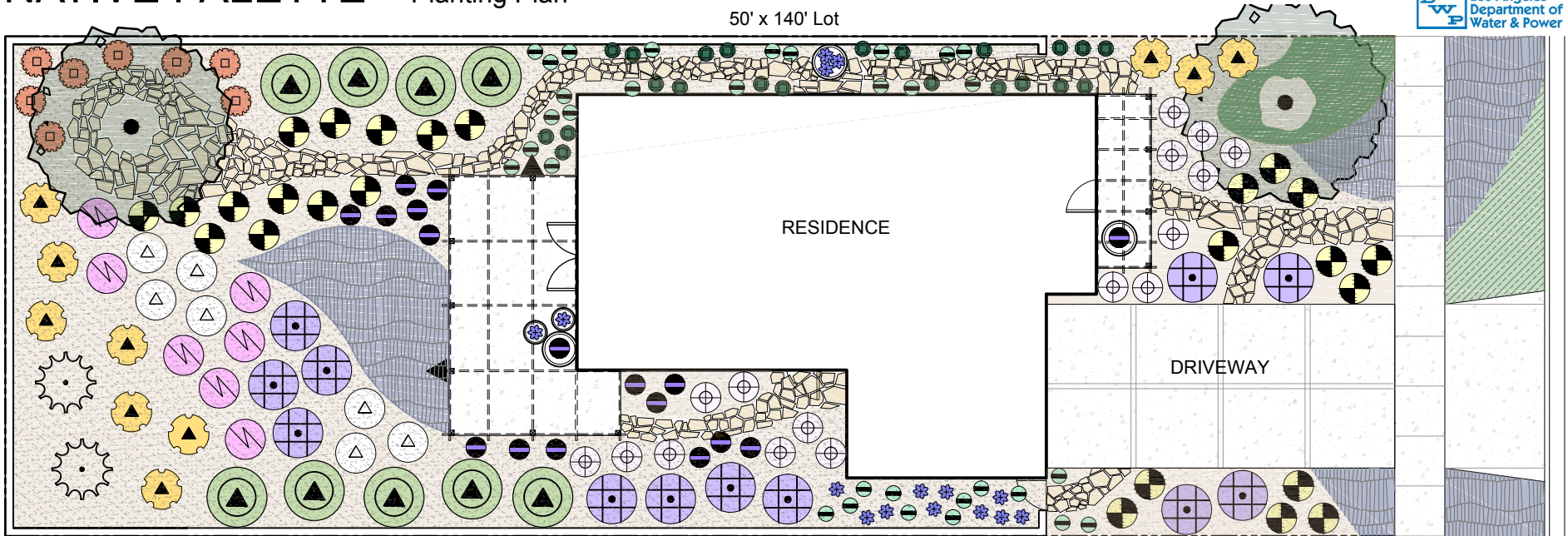
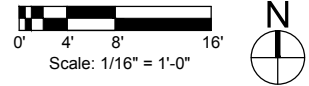


NATIVE PALETTE Planting Plan

50' x 140' Lot



LEGEND



TREES	BOTANICAL NAME	COMMON NAME	SIZE	SPACING*	TREES	BOTANICAL NAME	COMMON NAME	SIZE	SPACING*
	ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN'	HOWARD MCMINN MANZANITA	15 GAL			ENCELIA CALIFORNICA	COAST SUNFLOWER	1 GAL	48" O.C.
	QUERCUS AGRIFOLIA	COAST LIVE OAK	15 GAL			ERIOGONUM FASCICULATUM	CALIFORNIA BUCKWHEAT	1 GAL	36" O.C.
VINE						FESTUCA IDAHOENSIS	IDAHO FESCUE	1 GAL	18" O.C.
	CALYSTEGIA 'ANACAPA PINK'	ANACAPA ISLAND PINK MORNING GLORY	1 GAL			HEUCHERA MAXIMA	ISLAND ALUM ROOT	1 GAL	18" O.C.
GROUND COVERS						IRIS DOUGLASIANA	DOUGLAS IRIS	1 GAL	18" O.C.
	ACHILLEA MILLEFOLIUM	COMMON YARROW	1 GAL	12" O.C.		MUHLENBERGIA RIGENS	DEER GRASS	1 GAL	36" O.C.
	FRAGARIA CHILOENSIS	BEACH STRAWBERRY	FLAT	12" O.C.		PENSTEMON HETEROPHYLLUS 'MARGARITA BOP'	MARGARITA BOP FOOTHILL PENSTEMON	1 GAL	24" O.C.
	SYMPHORICARPOS MOLLIS	CREEPING SNOWBERRY	1 GAL	12" O.C.		RHUS OVATA	SUGAR BUSH	1 GAL	72" O.C.
	MULCH	3" LAYER. CLICK HERE FOR INFORMATION ON FREE CITY MULCH				SALVIA APIANA	CALIFORNIA WHITE SAGE	1 GAL	48" O.C.
PERMEABLE PAVING						SALVIA CLEVELANDII	CLEVELAND BLUE SAGE	5 GAL	60" O.C.
	BROKEN CONCRETE					SALVIA LEUCOPHYLLA	PURPLE SAGE	1 GAL	48" O.C.
						SALVIA SPATHACEA	HUMMINGBIRD SAGE	1 GAL	36" O.C.

*O.C. = ON CENTER SPACING

NATIVE PALETTE Plant Images & Care Instructions

These plants are widely available at Theodore Payne Foundation Retail Nursery and other native plant nurseries.



= California Native

Trees



COAST LIVE OAK
Quercus agrifolia

Full sun, low water



**HOWARD MCMINN
MANZANITA**
Arctostaphylos densiflora
'Howard McMinn'

Sun/shade, low water

Shrubs



COAST SUNFLOWER
Encelia californica

Full sun, low water



**CALIFORNIA
BUCKWHEAT**
Eriogonum fasciculatum

Full sun, low water



IDAHO FESCUE
Festuca Idahoensis

Sun/ shade,
Low-moderate water



ISLAND ALUM ROOT
Heuchera maxima

Cool sun/ light shade,
Moderate water



DOUGLAS IRIS
Iris douglasiana

Cool sun/ light shade,
Low-moderate water



DEER GRASS
Muhlenbergia rigens

Full sun, low water



**MARGARITA BOP
FOOTHILL PENSTEMON**
Penstemon heterophyllus
'Margarita BOP'

Full sun, low water



SUGAR BUSH
Rhus ovata

Full sun, low water



**CALIFORNIA
WHITE SAGE**
Salvia apiana

Full sun, low water



CLEVELAND BLUE SAGE
Salvia clevelandii

Full sun, low water



PURPLE SAGE
Salvia leucophylla

Full sun, low water



HUMMINGBIRD SAGE
Salvia spathacea

Light shade,
Moderate water

Groundcovers



COMMON YARROW
Achillea millefolium

Full sun, moderate water



BEACH STRAWBERRY
Fragaria chiloensis

Moderate water



**CREeping
SNOWBERRY**
Symphoricarpos mollis

Cool sun/ light shade,
Low-moderate water

Vine



**ANACAPA ISLAND PINK
MORNING GLORY**
Calystegia 'Anacapa Pink'

Full sun, low water

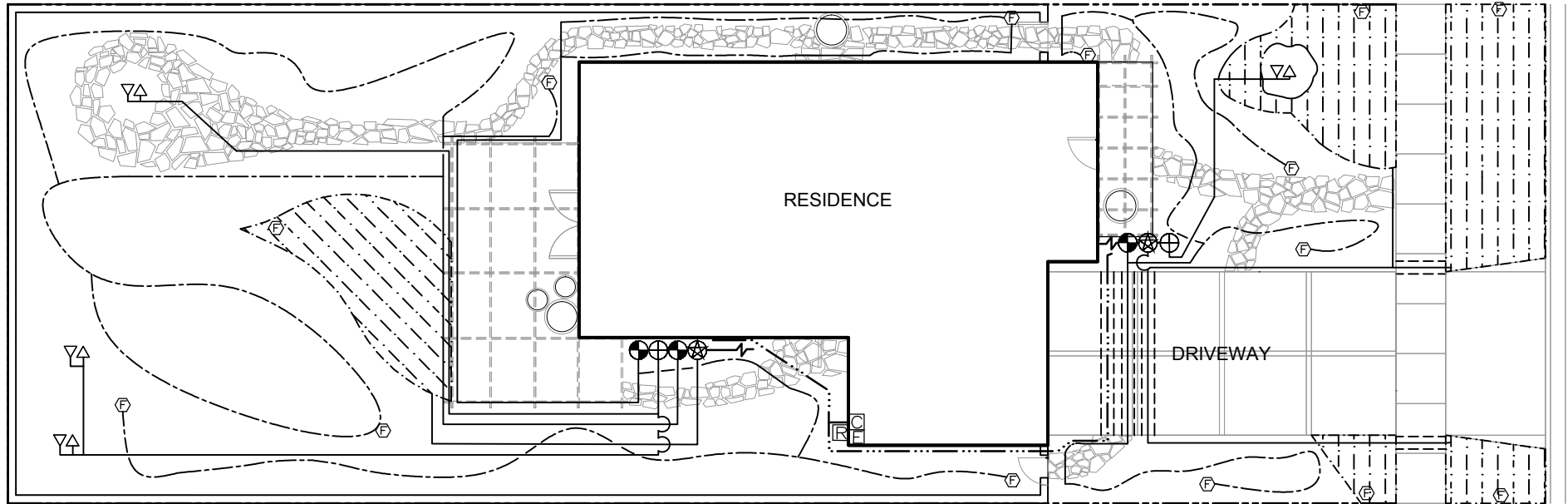
Permeable Paving



BROKEN CONCRETE

NATIVE PALETTE 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 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



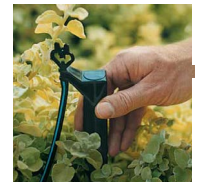
SMART CONTROLLER
USING REAL TIME
WEATHER DATA



RAIN SENSOR



AUTOMATIC CONTROL
VALVE ASSEMBLY



MICRO-SPRAY DRIP
SPRINKLER

NATIVE PALETTE 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