L.A. BASIN

**Planting Plan**

### TREES
- **Botanical Name:** Jacaranda Mimosaefolia
- **Common Name:** Jacaranda
- **Size:** 15 GAL

- **Botanical Name:** Olea Europaea 'Swan Hill' (Multi-Trunk)
- **Common Name:** Swan Hill Fruitless Olive
- **Size:** 15 GAL

### VINE
- **Botanical Name:** Rosa Banksiae 'Lutea'
- **Common Name:** Yellow Lady Banks' Rose
- **Size:** 1 GAL

### GROUNDCOVERS
- **Botanical Name:** Achillea Millefolium
- **Common Name:** Common Yarrow
- **Size:** 4" Pot
- **Spacing:** 18" O.C.

- **Botanical Name:** Dymondia Margaretae
- **Common Name:** Dymondia
- **Size:** Flat
- **Spacing:** 12" O.C.

- **Botanical Name:** Chamaemelum Nobile
- **Common Name:** Roman Chamomile
- **Size:** Flat
- **Spacing:** 12" O.C.

- **Botanical Name:** Duchesnea Indica
- **Common Name:** Indian Mock Strawberry
- **Size:** Flat
- **Spacing:** 12" O.C.

### GROUNDCOVERS (MULTI-TRUNK)
- **Botanical Name:** Frutiless Olive Vine

### SHRUBS
- **Botanical Name:** Correa 'Ivory Bells'
- **Common Name:** Ivory Bells
- **Size:** 1 GAL
- **Spacing:** 72" O.C.

- **Botanical Name:** Rosmarinus Officinalis 'Tuscan Blue'
- **Common Name:** Tuscan Blue Upright Rosemary
- **Size:** 1 GAL
- **Spacing:** 72" O.C.

- **Botanical Name:** Laurus Nobilis
- **Common Name:** Sweet Bay
- **Size:** 1 GAL
- **Spacing:** 72" O.C.

- **Botanical Name:** Phormium 'Amazing Red'
- **Common Name:** Amazing Red Flax
- **Size:** 1 GAL
- **Spacing:** 36" O.C.

- **Botanical Name:** Verbena Bonariensis
- **Common Name:** Argentine Verbena
- **Size:** 1 GAL
- **Spacing:** 60" O.C.

- **Botanical Name:** Lavandula Angustifolia 'Munstead'
- **Common Name:** Munstead Lavender
- **Size:** 1 GAL
- **Spacing:** 24" O.C.

- **Botanical Name:** Erigeron Karvinskianus
- **Common Name:** Santa Barbara Daisy
- **Size:** 1 GAL
- **Spacing:** 24" O.C.

- **Botanical Name:** Polyacthyum Munitum
- **Common Name:** Western Sword Fern
- **Size:** 1 GAL
- **Spacing:** 36" O.C.

- **Botanical Name:** Iris Douglasiana
- **Common Name:** Douglas Iris
- **Size:** 1 GAL
- **Spacing:** 18" O.C.

- **Botanical Name:** Viburnum Tinus 'Spring Bouquet'
- **Common Name:** Spring Bouquet Laurustinus
- **Size:** 1 GAL

- **Botanical Name:** Geranium 'Rozanne'
- **Common Name:** Rozanne Craneshill
- **Size:** 1 GAL
- **Spacing:** 24" O.C.

* O.C. = On Center Spacing

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**LEGEND**

**TREES**
- Jacaranda Mimosaefolia
- Olea Europaea 'Swan Hill' (Multi-Trunk)
- Rosa Banksiae 'Lutea'

**GROUNDCOVERS**
- Achillea Millefolium
- Dymondia Margaretae
- Chamaemelum Nobile
- Duchesnea Indica
- Mulch

**PERMEABLE PAVING**
- Sand-Set Flagstone

**SHRUBS**
- Correa 'Ivory Bells'
- Rosmarinus Officinalis 'Tuscan Blue'
- Laurus Nobilis
- Phormium 'Amazing Red'
- Verbena Bonariensis
- Lavandula Angustifolia 'Munstead'
- Erigeron Karvinskianus
- Polyacthyum Munitum
- Iris Douglasiana
- Viburnum Tinus 'Spring Bouquet'
- Geranium 'Rozanne'

* O.C. = On Center Spacing

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**L.A. BASIN**

**Lot** 50' x 140' Lot

**Scale:** 1/16" = 1'-0"
These plants are widely available at Home Improvement Stores and Nurseries.

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**
  - *Correa ‘Ivory Bells’*
  - Sun/shade, low water

- **MUNSTEAD LAVENDER**
  - *Lavandula augustifolia ‘Munstead’*
  - Full sun, low water

- **ARGENTINE VERBENA**
  - *Verbena bonariensis*
  - Full sun, low water

- **SWEET BAY**
  - *Laurus nobilis*
  - Cool sun/light shade, low 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

- **SAND-SET FLAGSTONE**

Vine

- **YELLOW LADY BANKS’ ROSE**
  - *Rosa banksiae ‘Lutea’*
  - Full sun, moderate water

Permeable Paving

- **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

- **SAND-SET FLAGSTONE**
L.A. BASIN Irrigation Plan

50’ x 140’ Lot

LEGEND

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>EQUIPMENT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>←</td>
<td>EXISTING IRRIGATION MAINLINE</td>
<td>CONNECT TO EXISTING IRRIGATION MAINLINE</td>
</tr>
<tr>
<td>----</td>
<td>PVC LATERAL</td>
<td>PVC PIPE 3/4&quot; - 1&quot; SCHEDULE 40</td>
</tr>
<tr>
<td>----</td>
<td>PVC SLEEVE</td>
<td>PVC PIPE SCHEDULE 40 SLEEVING</td>
</tr>
<tr>
<td>----</td>
<td>VALVE WIRE</td>
<td>IRRIGATION CONTROL WIRE #18 UF</td>
</tr>
<tr>
<td>☢️</td>
<td>SENSOR</td>
<td>WEATHER BASED CONTROLLER</td>
</tr>
<tr>
<td>🍃</td>
<td>N/A</td>
<td>RAIN/TEMPERATURE SENSOR</td>
</tr>
<tr>
<td>🌲</td>
<td>SHRUB DRIP VALVE</td>
<td>Drip Automatic Control Valve Assembly</td>
</tr>
<tr>
<td>🌱</td>
<td>GROUNDCOVER DRIP VALVE</td>
<td>Drip Automatic Control Valve Assembly</td>
</tr>
<tr>
<td>🌴</td>
<td>TREE VALVE</td>
<td>Automatic Control Valve Assembly</td>
</tr>
<tr>
<td>→</td>
<td>DRIP TUBING FOR SHRUB</td>
<td>1/2” Flexible Drip Tubing</td>
</tr>
<tr>
<td>←</td>
<td>GROUNDCOVER DRIP TUBING</td>
<td>Inline Drip Tubing with Built-in Emitters</td>
</tr>
<tr>
<td>🍃</td>
<td>FLUSH CAP</td>
<td>Self-Flushing End Valve</td>
</tr>
<tr>
<td>🌲</td>
<td>BUBBLER FOR TREES</td>
<td>2 Bubblers Per Tree</td>
</tr>
</tbody>
</table>

NOTE: LAYOUT SHOWN IS DIAGRAMMATIC. ADJUST TO FIT ACTUAL CONDITIONS.
Click [HERE](#) for more information about irrigation.

**LEGEND**

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<th>SYMBOL</th>
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<tbody>
<tr>
<td><img src="#" alt="Arrows" /></td>
<td>EXISTING IRRIGATION MAINLINE</td>
<td>CONNECT TO EXISTING IRRIGATION MAINLINE BY REPLACING EXISTING SPRINKLER VALVES WITH NEW REDUCED PRESSURE DRIP VALVES (10 GALLONS PER MIN. MAX. FLOW) USING 1&quot; PVC SCHEDULE 40 PIPE. STATIC WATER PRESSURE TO BE 45 POUNDS PER SQUARE INCH TO ACCOMMODATE THIS DESIGN.</td>
</tr>
<tr>
<td><img src="#" alt="Pipes" /></td>
<td>PVC LATERAL</td>
<td>PVC PIPE 3/4&quot; • 1&quot; SCHEDULE 40 LATERAL LINES, 12&quot; BELOW GRADE.</td>
</tr>
<tr>
<td><img src="#" alt="Pipes" /></td>
<td>PVC SLEEVE</td>
<td>PVC PIPE SCHEDULE 40 SLEEVING, TWICE THE DIAMETER OF PIPE OR WIRES. BUNDLE CARRIED. PLACE BELOW PAVING.</td>
</tr>
<tr>
<td><img src="#" alt="Arrows" /></td>
<td>VALVE WIRE</td>
<td>IRRIGATION CONTROL WIRE #18 UF ALUMINUM WIRE GAUGE DIRECT BURIAL. 6&quot; -WIRE STRAND, BURIED 6&quot; DEEP (U.L. APPROVED).</td>
</tr>
<tr>
<td><img src="#" alt="No Symbol" /></td>
<td>WIRE NUT</td>
<td>WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS (U.L. APPROVED).</td>
</tr>
<tr>
<td><img src="#" alt="C" /></td>
<td>SMART CONTROLLER</td>
<td>WEATHER BASED CONTROLLER UTILIZING PAID WEATHER SUBSCRIPTION, RAIN/Temperature SENSOR OR WIFI. INTERIOR WALL MOUNT.</td>
</tr>
<tr>
<td><img src="#" alt="K" /></td>
<td>SENSOR</td>
<td>RAIN/Temperature SENSOR. MOUNT TO EAVE OF ROOF IN FULL SUN EXPOSURE AND WIRE TO CONTROLLER.</td>
</tr>
<tr>
<td><img src="#" alt="E" /></td>
<td>NIA</td>
<td>120 VOLT ELECTRICAL POWER OUTLET.</td>
</tr>
<tr>
<td><img src="#" alt="Arrows" /></td>
<td>SHRUB DRIP VALVE</td>
<td>1&quot; DRIP AUTOMATIC CONTROL VALVE ASSEMBLY W/ ANTI-SIPHON VALVE, 1&quot; FILTER AND 40 PSI REGULATOR. INSTALL 6&quot; ABOVE HIGHEST POINT. 3/4&quot; DRIP VALVE ASSEMBLIES CAN BE USED FOR FLOWS LESS THAN 5 GALLONS PER MINUTE.</td>
</tr>
<tr>
<td><img src="#" alt="Arrows" /></td>
<td>GROUND COVER DRIP VALVE</td>
<td>1&quot; DRIP AUTOMATIC CONTROL VALVE ASSEMBLY W/ ANTI-SIPHON VALVE, 1&quot; FILTER AND 40 PSI REGULATOR. INSTALL 6&quot; ABOVE HIGHEST POINT. 3/4&quot; DRIP VALVE ASSEMBLIES CAN BE USED FOR FLOWS LESS THAN 5 GALLONS PER MINUTE.</td>
</tr>
<tr>
<td><img src="#" alt="Arrows" /></td>
<td>TREE VALVE</td>
<td>3/4&quot; AUTOMATIC CONTROL VALVE ASSEMBLY W/ ANTI-SIPHON VALVE. INSTALL 6&quot; ABOVE HIGHEST POINT.</td>
</tr>
<tr>
<td><img src="#" alt="Arrows" /></td>
<td>DRIP TUBING FOR SHRUBS</td>
<td>1/2&quot; 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.</td>
</tr>
<tr>
<td><img src="#" alt="No Symbol" /></td>
<td>MICRO-SPRAY DRIP SPRINKLERS FOR SHRUBS</td>
<td>PRESSURE COMPENSATING MICRO-SPRAY DRIP SPRINKLERS (1.0 GALLON PER HOUR); TWO PER SHRUB. 300 SHRUBS CAN BE PLANTED USING A 1&quot; VALVE AT ROUGHLY 10 GALLONS PER MINUTE. 150 SHRUBS CAN BE PLANTED USING A 3/4&quot; VALVE AT ROUGHLY 5 GALLONS PER MINUTE.</td>
</tr>
<tr>
<td><img src="#" alt="No Symbol" /></td>
<td>Emitter Stake for Shrubs</td>
<td>ONE Emitter Stake Per Micro-Spray Drip Sprinkler Connected with 6 of 1/4&quot; Tubing to 1/2&quot; Drip Tubing.</td>
</tr>
<tr>
<td><img src="#" alt="Arrows" /></td>
<td>GROUND COVER DRIP TUBING</td>
<td>INLINE DRIP TUBING WITH BUILT-IN EMITTERS EVERY 18&quot; ON CENTER WITH A ROW SPACING OF 18&quot; AND AN Emitter FLOW OF 0.6 GPH. ALL TUBING SHALL BE INSTALLED ON GRADE BELOW MULCH W/ WIRE STAKES EVERY 5' ON CENTER.</td>
</tr>
<tr>
<td><img src="#" alt="Arrows" /></td>
<td>2000 S.F. Maximum Area to Create a Flow of Roughly 10 Gallons Per Minute.</td>
<td></td>
</tr>
<tr>
<td><img src="#" alt="Arrows" /></td>
<td>1000 S.F. Maximum Area to Create a Flow of Roughly 5 Gallons Per Minute.</td>
<td></td>
</tr>
<tr>
<td><img src="#" alt="F" /></td>
<td>FLUSH CAP</td>
<td>1/2&quot; BARB X 3/4&quot; THREAD W/ PLASTIC CAP AS A FLUSH POINT. ONE REQUIRED AT THE END OF EACH TUBING LENGTH.</td>
</tr>
<tr>
<td><img src="#" alt="No Symbol" /></td>
<td>DRIP FITTINGS</td>
<td>ALL CONNECTIONS BETWEEN Dripline Tubing Shall Be Made Using 1/2&quot; Barb x Barb Fittings. All Connections Between Dripline Tubing and PVC Shall Be Made Using 1/2&quot; Barb x 1/2&quot; Thread.</td>
</tr>
<tr>
<td><img src="#" alt="Arrows" /></td>
<td>BUBBLERS FOR TREES</td>
<td>Bubbler ON PVC Schedule 80 Riser, Two Per Tree.</td>
</tr>
</tbody>
</table>

**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**