# Las Virgenes Invasive and Non Native Tree Removal

### East Bank

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
<th>Total in 2 Year Flood Plain</th>
<th>Total in 10 Year Flood Plain</th>
<th>Total in Upland Area</th>
<th>DBH Range</th>
<th>Removal Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pepper Tree</td>
<td>Schinus molle</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brazilian Pepper Tree</td>
<td>Schinus terebinthifolius</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Blue Gum</td>
<td>Eucalyptus globulus</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lomadry Poplar</td>
<td>Populus nigra</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Chinese Flame Tree</td>
<td>Koelreuteria bipinnata</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canary Island Palm</td>
<td>Phoenix canariensis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cordyline</td>
<td>Cordyline australis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scots Pine</td>
<td>Pinus sylvestris</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mexican Fan Palm</td>
<td>Washingtonia filifera</td>
<td></td>
<td></td>
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</tbody>
</table>

**Sub-Totals**

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
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<tr>
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<td></td>
<td>16</td>
<td>9</td>
<td>113</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Fig</td>
<td>Ficus carica</td>
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<td></td>
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<tbody>
<tr>
<td></td>
<td></td>
<td>17</td>
<td>8</td>
<td>220</td>
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</tr>
</tbody>
</table>

**Total Trees Removed**

- 333

* Diameter at Breast Height (DBH)

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### Trees to be Planted

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
<th>Size</th>
<th>24&quot; Box</th>
<th>15 gal</th>
<th>Deeapot</th>
<th>Live Stakes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sycamore</td>
<td>Platanus racemosa</td>
<td>150</td>
<td>100</td>
<td>50</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Cottonwood</td>
<td>Populus fremontii</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Live Oak</td>
<td>Quercus agrifolia</td>
<td>50</td>
<td>75</td>
<td>50</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Box Elder</td>
<td>Acer negundo</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Red Willow</td>
<td>Salix laevigata</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>California Walnut</td>
<td>Juglans Californica</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sub-Totals**

|                    |               | 200      | 175     | 200    | 400     |             |

**Total Trees To Be Planted**

- 595

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### Distributed Area Hydroseeding

<table>
<thead>
<tr>
<th>COMMON NAME</th>
<th>SCIENTIFIC NAME</th>
<th>FUNCTION</th>
<th>LBS/ACRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yarrow</td>
<td>Achillea millenfolium</td>
<td>PERENNIAL</td>
<td>5</td>
</tr>
<tr>
<td>Creeping Wild Rye</td>
<td>Elymus triticioides</td>
<td>PERENNIAL</td>
<td>15</td>
</tr>
<tr>
<td>California Brome</td>
<td>Bromus carinatus</td>
<td>COVER/PERENNIAL</td>
<td>15</td>
</tr>
<tr>
<td>Narrow Leaf Milkweed</td>
<td>Asclepias fascicularis</td>
<td>COVER/PERENNIAL</td>
<td>10</td>
</tr>
<tr>
<td>MULCH</td>
<td>N/A</td>
<td>EROSION CONTROL</td>
<td>2000</td>
</tr>
<tr>
<td>FERTILIZER</td>
<td>N/A</td>
<td>PLANT ESTABLISHMENT</td>
<td>200</td>
</tr>
<tr>
<td>TACKIFIER3</td>
<td>N/A</td>
<td>EROSION CONTROL</td>
<td>200</td>
</tr>
</tbody>
</table>

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* VEGETATION MANAGEMENT TABLES
* LAS VIRGENES CREEK BANK STABILIZATION, STREAM RESTORATION AND BEARER ENHANCEMENT
* CALABASAS, CA

**Sheet No:** 9

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* QUESTA craftsmanship

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* APPROVED*

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* SCALAFIELD*

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* 9-24-2010 PROJECT REU-1000058
* CONTRACT NO.*
1. TEMPORARY PLASTIC AND SANDBAG COFFER DAM
   NTS

2. TREE PROTECTION
   NTS

3. CONSTRUCTION BARRIER FENCE
   NTS

4. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
   NTS

5. SILT/BIO-EXCLUSION FENCING
   NTS

LAS VIRGENES CREEK FISH BARRIER ENHANCEMENT
SITE PROTECTION DETAILS

CALABASAS, CA

PROJECT NO: 1000016

SHEET NO: 21

ECCENTRIC

DRAWN BY:
CHECKED BY:
DATE:

5/22/13

QUESTA

A R M O R Y

CONTRACT NO.

1-320
1. BANK STABILIZATION COR BIO-BLOCK

   - Placement of bioblocks is optional.
   - Live willow staking is suggested.
   - 6" staggering of bioblocks is recommended.
   - Use 500 lbs/bundle.
   - Note: Key in bioblocks upstream and downstream extent with boulder cluster or large wood structure.

2. PLANTED ROCK REVETMENT

   - Erosion control fabric should be tucked under rock/slope protection.
   - Place rock crib sections no larger than 8" in slope length fill with soil and plant lower section before placing rock in the next higher section.
   - Plant yellow-stakes at 2" c.c.
   - Bank toe channel edge
   - Channel bottom

3. EROSION CONTROL FABRIC

   - Erosion control blankets should be biodegradable (see specs).
   - Slop surface should be free of rocks, clods, sticks and debris.
   - Wattle blankets should have good soil contact.
   - Apply wattle blankets before placing blankets.
   - Leave wattle loose or staple to maintain direct contact with the soil, do not stretch.

4. Wattles

5. OUTFALL PROTECTION

   - Las Virgenes Creek Fish Barrier Enhancement
   - Erosion control details
   - Calabasas, CA
   - Project: #5500055
   - Sheet No. 22
   - Scale: 1" = 40'
   - Designed by Questa Engineering Corp.
   - Checked by...
   - Date: 9-24-15

   - Note: All dimensions are approximate and should be verified on site.
1. CONSTRUCTED RIFFLE AND GRADE CONTROL BAFFLE PLAN AND SECTIONS

2. CONCRETE FISH PASSAGE WEIR
IMPROVED TRAIL

Preferred Standards:

- **Tread Width**: 6 - 10 feet
- **Clearing Width**: 10 - 12 feet
- **Tread Surface**: Crushed rock, decomposed granite, or asphalt
- **Percent Grade**: Gradients should not exceed 10 percent
  - **Desired Grade**: 0 to 5 percent
  - **Maximum Grade**: 0 to 10 percent (sustained, 15 percent (shorter than 50 yards)
- **Clearing Height**: 2 percent (maximum)
- **Clearing Height**: 10 - 14 feet to allow for equestrian use

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NATURAL (OPEN SPACE) TRAIL

Preferred Standards:

- **Tread Width**: 3 - 5 feet
- **Clearing Width**: 7 - 9 feet
- **Tread Surface**: Natural/native soil
- **Percent Grade**: Gradients should not exceed 10 percent
  - **Desired Grade**: 0 to 5 percent
  - **Maximum Grade**: 5 to 10 percent (sustained, 15 percent (shorter than 50 yards)
- **Clearing Height**: 3 percent (maximum)
- **Clearing Height**: 10 - 14 feet to allow for equestrian use

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IMPROVED TRAIL

NATURAL TRAIL