



Venice Dual Force Main Project



PROJECT ALIGNMENT



VENICE DUAL FORCE MAIN

Segment North of Channel, under Via Marina





VENICE DUAL FORCE MAIN Proposed Construction Schedule

Anticipated Construction Start: Early 2016

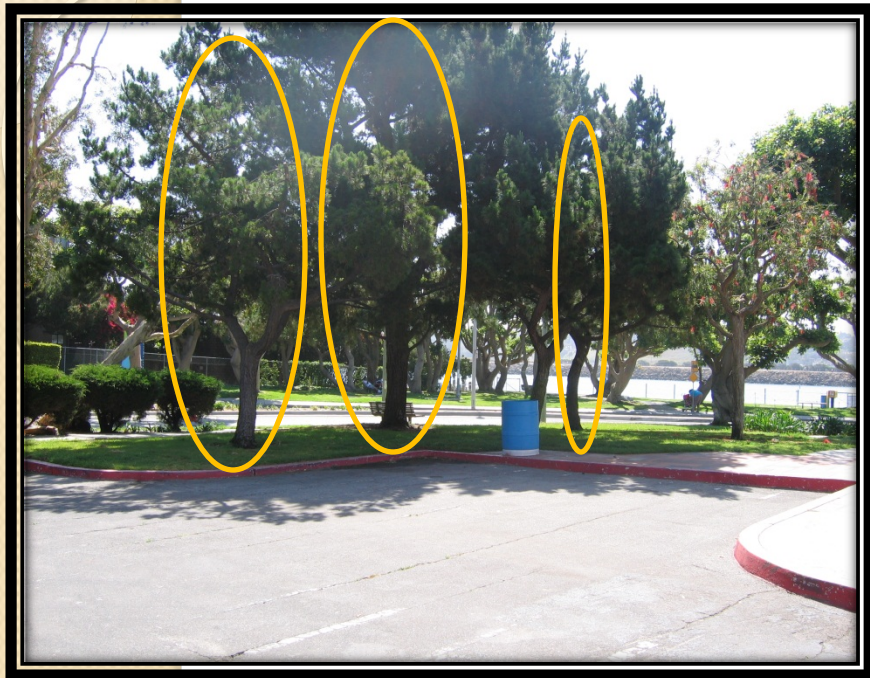
Total Project Construction Duration: Approx. 36 months

Construction Duration in LA County: Approx. 20 months

SITE PLAN – County Lot 13



○ - Trees to be replaced



Construction Pit Site North of Marina Del Rey Channel



○ - Trees to be replaced



TREE REPLACEMENT OPTIONS

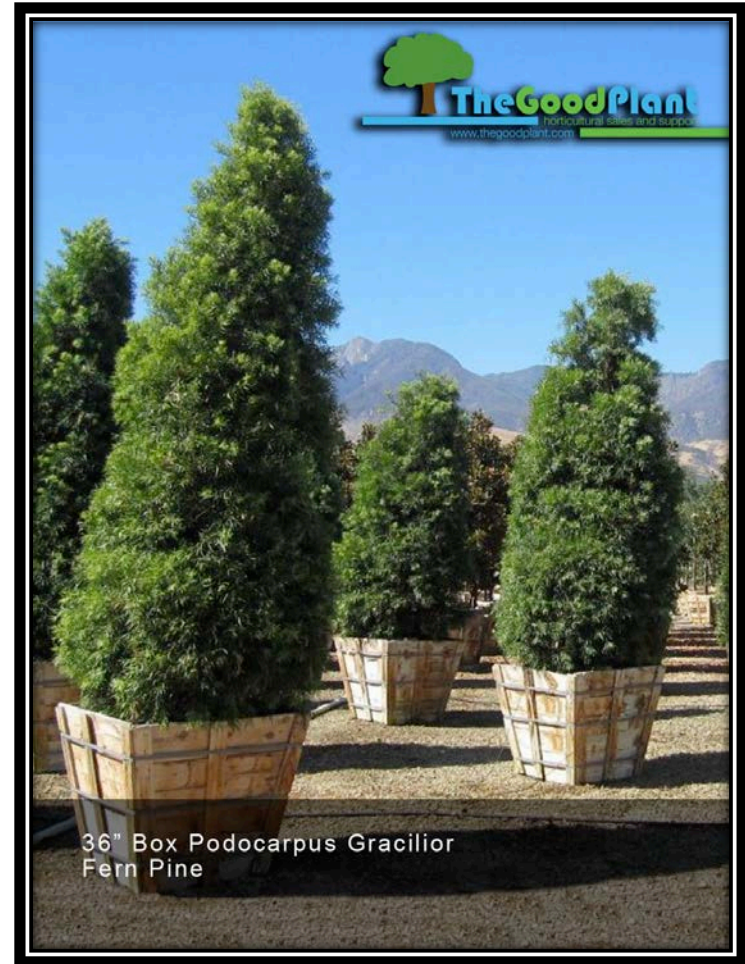
Replace removed trees:

- with trees of same species (Italian Stone Pine and Paper Bark) or
- with trees that are consistent with LA County Public Works project on Via Marina (Fern Pine or Mexican Sycamore)

Mexican Sycamore



Fern Pine



MITIGATION MEASURES

During construction, the following mitigation measures shall be employed:

- **Bio** – Survey trees for nesting birds; Monitor water turbidity during Least Tern nesting season
- **Air Quality** – Minimize NO_x emissions (various measures related to equipment engines and optimizing processes),
- **Traffic** – A Construction Traffic Management Plan and site-specific construction worksite traffic control plans shall be prepared; These require review & approval from LA County DPW; Advance notice to any affected residents, businesses, and property owners shall be provided
 - **Pedestrian/Bicycle Access** – Signage identifying alternative pedestrian & bike access shall be provided when needed
 - **Public Transit** – Coordination with transit providers is required; Temporary bus stops within a reasonable walking distance shall be identified if needed

MITIGATION MEASURES (continued)

During Construction:

- Recreation – The City shall coordinate all construction scheduling and activities with LA County DPW to eliminate or reduce construction-related impacts.
- Noise/Vibration – Restrictions on construction hours; Use of soundwall barriers around pits; Heavy trucks shall be limited to major arterial streets; The on-site construction supervisor shall have the responsibility and authority to receive and resolve noise complaints; The contractor shall develop and implement a project noise control plan; “Press-in” or drilling pile drivers shall be used rather than impact or vibratory pile-drivers, as feasible.
- Cultural/Paleo – Monitoring is required during excavation; Various measures in place if resources are discovered.
- Geological – To avoid/minimize subsidence, measures such as use of a watertight excavation support system to minimize groundwater pumping shall be used; Mitigation systems for methane gas are required

CONTACT INFORMATION

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