



MEMORANDUM

To: Eric Lee, City of Davis

cc: Chuck Cunningham, Cunningham Engineering Corporation (CEC)

From: Mike Engle, Landscape Architect - Cunningham Engineering Corporation

Date: 07 March 2019

Subject: 3820 Chiles Road – Relocating Existing Oak Trees

Eric – In response to the planning commission’s request we have investigated the feasibility of relocating the valley oak trees currently located in the eastern berm of the project. The commission is requesting to potentially relocate (5) existing valley oak trees from the existing berm to the proposed air quality berm planting along Chiles Road. Per the updated arborist report dated November 30, 2018 prepared by Tree Associates, the (5) oak trees are numbered 156, 157, 158, 159 and 161. The following information was extracted from the arborist report for ease of use and readability. Per the table below the total appraised value of the trees is \$38,537.41

Tree #	Species	Diameter (in.) at 4.5’ height	Basic Tree Cost (Appraised tree trunk increase X Unit Tree Cost + Installed Tree Costs)
156	Valley Oak	12	\$8,878.41
157	Valley Oak	14	\$12,037.05
158	Valley Oak	9	\$5,103.45
159	Valley Oak	10	\$6,259.05
161	Valley Oak	10	\$6,259.05
	Totals	55	\$38,537.41

We have been in communication with Bob Peralta at Brigh view Landscape to discuss the process and approximate costs of relocating the valley oak trees. The basic equipment and process to relocate the trees is a backhoe to dig around the perimeter, a crane to lift the tree and a semi-truck and trailer to transport the tree for storage and maintenance until ready to replant. Good crane and semi-truck/trailer access that is close to the tree is

important. While the project has good access from the north the ground plane is native soil which is not compacted well enough to provide the load bearing support required for such heavy lifting. While the relocation is still feasible this adds some additional cost implications. Brightview estimates the cost to remove and box the trees and keep them on-site to be \$30,000 to \$35,000 per tree plus an additional \$10,000 to \$15,000 to transport off-site and maintain in their box condition. The overall budget to transplant the (5) valley oak trees is approximately \$250,000.

While it is possible to move the Valley Oaks it is not practical from a monetary standpoint as the cost to transplant the trees is roughly 6.5 times the appraised value as provided by the arborist. From a horticultural standpoint it is also not recommended as there is a significant risk of tree failure after the tree transplant.

The suggested approach to mitigate for the site tree removal, including these 5 valley oaks is to plant 24" box trees (including some valley oaks) throughout the site and within the air pollution berm to account for the loss of trees on site. In addition to the tree planting any remaining mitigation fees will be paid in-lieu to the City as determined by the City Arborist.

