



10/19/2021

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Re: Tree Protection for Proposed Power Line for Data Center on Camino Arroyo in Gilroy
(AWS SFO069)

Dear Miles,

At your request, I have visited the property referenced above to evaluate the trees present with respect to the proposed power line associated with this project. The report below contains my analysis.

Summary:

There are 38 trees present on and adjacent to the power line: two private protected trees on the neighboring property; 24 private non-protected trees on the neighboring property; and 12 street trees.

All these trees must be removed for the proposed transmission line. A 50-foot PG&E "border zone" to each side of the power line where no trees may remain has been assumed. If a smaller border zone is deemed by PG&E to be sufficient, then many of these trees may be able to remain.

To replace the trees removed, 22 24-inch box trees and four 48-inch box trees will be required per city requirements.

Assignment:

We have been asked to write a report detailing impacts to trees from construction of the proposed power transmission line serving the proposed data center at this property.

Introduction:

In the City of Gilroy, trees are protected based on size and ownership. All street trees are protected, and private trees are protected based on species and size, as follows:



TREE REMOVAL PERMITS

Effective December 5, 2018



Trees Requiring Permits for Removal:

Any Tree of the Following Species:

- All Species of Oaks
- California Bay
- Big Leaf Maple
- Madrone
- California Sycamore
- California Buckeye
- Alder

&  **38" or More in Circumference***

OR  **Any Type of Tree Over 90" in Circumference***

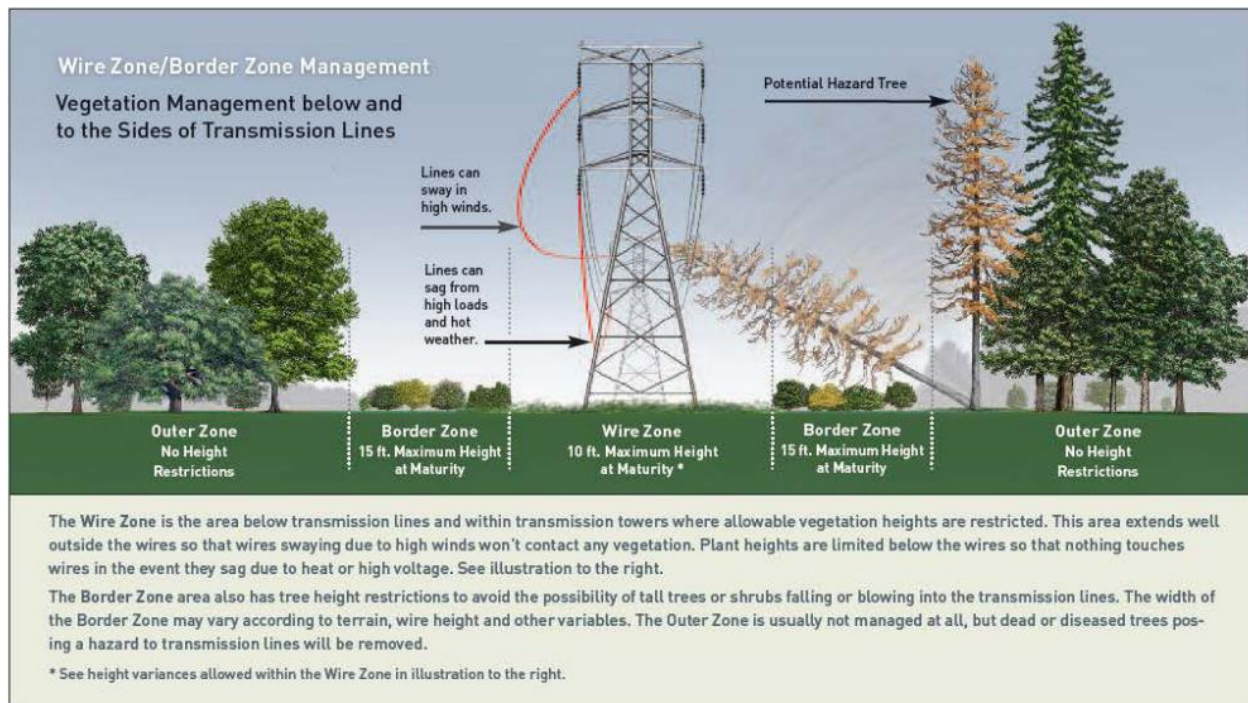
For additional information or to apply for a permit, please visit CityofGilroy.org or call 408-846-0451.

*Circumference measurement is taken 4 1/2 feet above grade. No permit is needed if tree circumference is less than 38".

Replacement requirements for trees to be removed are as follows for protected and heritage trees. Note that no replacement requirements are shown for street trees.

Table 1 REPLACEMENT TREE REQUIREMENTS		
Trunk Size of Removed Tree (measured at 4 1/2 feet above grade)	Replacement Ratio Required (per tree removed)	
Circumference (inches)	Number of replacement trees	Minimum Size
38 to 75	2	24 inch box
Greater than 75	2	36 inch box
Heritage Trees	2	48 inch box

According to PG&E's Guide to Landscaping for Pollinators and Wildlife within and along Electric Transmission Corridors, the "border zone" within which large trees must be removed varies depending on site conditions:



Limits of the Assignment:

All observations were made from the ground with basic equipment. No root collar excavations or aerial inspections were performed. No project features had been staked at the time of my site visit.

Purpose & Use of the Report:

This report is intended to inform tree management decisions for this project, and to provide recommendations to maximize the likelihood of survival for the trees which may reasonably be retained.

Observations:

Trees

There are 38 trees present on and adjacent to the proposed power transmission line to serve the proposed data center: two private protected trees on the neighboring property; 25 private non-protected trees on the neighboring property; and 11 street trees (**Images 1-36¹**). Twenty-one are London planes (*Platanus x acerifolia*), 18 are silver dollar gums (*Eucalyptus polyanthemos*), two are coast redwoods (*Sequoia sempervirens*), and one is a western cottonwood (*Populus fremontii*). These trees are numbered 19-56, as trees #1-18 were inventoried in the original arborist report for this project.

¹ No image available for trees #40 or 43

Project Features

Two new power transmission towers are proposed: one near the southwestern corner of the property, and one about 450 feet to the east.

Tree Conflicts

Trees #19-56 lie within or just beyond the edge of the assumed 50-foot border zone on either side of the proposed transmission line. If the border zone were reduced by PG&E, then some of these trees might be outside it.

Testing & Analysis:

Tree DBHs were taken using a diameter tape measure. All trees over 6 inches in DBH were inventoried. Vigor ratings are based on tree appearance and experiential knowledge of each species.

Tree location data was collected using a GPS smartphone application and processed in GIS software to create the maps included in this report. Due to the error inherent in GPS data collection, tree locations shown on the map below are approximate.

We visited the site once, on 8/12/2021. All observations and photographs in this report were taken at that site visit.

This report is based on a rough sketch on aerial photography, provided to me electronically by the client.

Conclusions:

Trees #19-56 are incompatible with the project as proposed, if a border zone of 50 feet to either side of the proposed transmission line will be needed.

Please note that we have not received formal recommendations from PG&E on the size of the border zone for this project. If a smaller border zone is used, some trees may be able to be retained.

Recommendations:

Design Phase

1. Clarify with PG&E the size of the border zone.
 - a. If the size of the border zone changes, contact the project arborist.

Demolition/Site Prep phase

1. Remove trees #19-56

Post-construction phase

1. Install trees of the following numbers and container sizes to replace trees #19-56:
 - a. Twenty-two 24" box trees
 - b. Four 48" box trees

Tree Map



Tree Inventory Table (Partial)

Tree #	Common Name	Species	DBH (inches)	Height (estimated visually)	Protected tree?	Vitality (0 = dead, 3 = healthy)	Project Impacts	Disposition	Replacement Requirement
19	London plane	Platanus x acerifolia	13.8	45	-	2	Incompatible with transmission line	REMOVE	N/A
20	London plane	Platanus x acerifolia	13.3	45	-	2	Incompatible with transmission line	REMOVE	N/A
21	London plane	Platanus x acerifolia	5.8	20	-	2	Incompatible with transmission line	REMOVE	N/A
22	Silver dollar gum	Eucalyptus polyanthemos	23.0	35	-	3	Incompatible with transmission line	REMOVE	N/A
23	Silver dollar gum	Eucalyptus polyanthemos	20.0	35	-	3	Incompatible with transmission line	REMOVE	N/A
24	Silver dollar gum	Eucalyptus polyanthemos	16.5	35	-	3	Incompatible with transmission line	REMOVE	N/A
25	Silver dollar gum	Eucalyptus polyanthemos	19.8	35	-	3	Incompatible with transmission line	REMOVE	N/A
26	Silver dollar gum	Eucalyptus polyanthemos	26.7	35	-	3	Incompatible with transmission line	REMOVE	N/A
27	Silver dollar gum	Eucalyptus polyanthemos	23.1	35	-	3	Incompatible with transmission line	REMOVE	N/A
28	Silver dollar gum	Eucalyptus polyanthemos	20.5	35	-	3	Incompatible with transmission line	REMOVE	N/A
29	Silver dollar gum	Eucalyptus polyanthemos	17.8	35	-	3	Incompatible with transmission line	REMOVE	N/A

Tree #	Common Name	Species	DBH (inches)	Height (estimated visually)	Protected tree?	Vitality (0 = dead, 3 = healthy)	Project Impacts	Disposition	Replacement Requirement
30	Silver dollar gum	Eucalyptus polyanthemos	21.5	35	-	3	Incompatible with transmission line	REMOVE	N/A
31	Silver dollar gum	Eucalyptus polyanthemos	18.0	35	-	3	Incompatible with transmission line	REMOVE	N/A
32	Silver dollar gum	Eucalyptus polyanthemos	16.8	35	-	3	Incompatible with transmission line	REMOVE	N/A
33	Silver dollar gum	Eucalyptus polyanthemos	19.1	35	-	3	Incompatible with transmission line	REMOVE	N/A
34	Silver dollar gum	Eucalyptus polyanthemos	23.0	35	-	3	Incompatible with transmission line	REMOVE	N/A
35	Silver dollar gum	Eucalyptus polyanthemos	22.4	35	-	3	Incompatible with transmission line	REMOVE	N/A
36	Silver dollar gum	Eucalyptus polyanthemos	21.0	35	-	3	Incompatible with transmission line	REMOVE	N/A
37	London plane	Platanus x acerifolia	11.5	40	-	2	Incompatible with transmission line	REMOVE	N/A
38	Silver dollar gum	Eucalyptus polyanthemos	26.4	35	-	3	Incompatible with transmission line	REMOVE	N/A
39	Silver dollar gum	Eucalyptus polyanthemos	16.8	35	-	3	Incompatible with transmission line	REMOVE	N/A
40	Silver dollar gum	Eucalyptus polyanthemos	22.6	35	-	3	Incompatible with transmission line	REMOVE	N/A
41	London plane	Platanus x acerifolia	14.2	40	-	2	Incompatible with transmission line	REMOVE	N/A

Tree #	Common Name	Species	DBH (inches)	Height (estimated visually)	Protected tree?	Vitality (0 = dead, 3 = healthy)	Project Impacts	Disposition	Replacement Requirement
42	Western cottonwood	Populus fremontii	21.0	40	-	2	Incompatible with transmission line	REMOVE	N/A
43	London plane	Platanus x acerifolia	16.0	40	-	3	Incompatible with transmission line	REMOVE	N/A
44	London plane	Platanus x acerifolia	15.6	50	Y	3	Incompatible with transmission line	REMOVE	Two 24-inch boxes
45	London plane	Platanus x acerifolia	12.5	50	Y	3	Incompatible with transmission line	REMOVE	Two 24-inch boxes
46	London plane	Platanus x acerifolia	14.2	50	Y	3	Incompatible with transmission line	REMOVE	Two 24-inch boxes
47	London plane	Platanus x acerifolia	18.0	50	Y	3	Incompatible with transmission line	REMOVE	Two 24-inch boxes
48	London plane	Platanus x acerifolia	17.0	50	Y	3	Incompatible with transmission line	REMOVE	Two 24-inch boxes
49	Coast redwood	Sequoia sempervirens	33.0	90	Y	3	Incompatible with transmission line	REMOVE	Two 48-inch boxes
50	Coast redwood	Sequoia sempervirens	35.2	90	Y	3	Incompatible with transmission line	REMOVE	Two 48-inch boxes
51	London plane	Platanus x acerifolia	19.1	50	Y	3	Incompatible with transmission line	REMOVE	Two 24-inch boxes
52	London plane	Platanus x acerifolia	17.8	50	Y	3	Incompatible with transmission line	REMOVE	Two 24-inch boxes
53	London plane	Platanus x acerifolia	18.0	50	Y	3	Incompatible with transmission line	REMOVE	Two 24-inch boxes
54	London plane	Platanus x acerifolia	16.5	50	Y	3	Incompatible with transmission line	REMOVE	Two 24-inch boxes
55	London plane	Platanus x acerifolia	15.8	50	Y	3	Incompatible with transmission line	REMOVE	Two 24-inch boxes
56	London plane	Platanus x acerifolia	18.0	50	Y	3	Incompatible with transmission line	REMOVE	Two 24-inch boxes

Supporting Photographs

Image 1: London plane #19



Image 2: London plane #20



Image 3: London plane #21



Image 4: silver dollar gum #22



Image 5: silver dollar gum #23



Image 6: silver dollar gum #24



Image 7: silver dollar gum #25



Image 8: silver dollar gum #26



Image 9: silver dollar gum #27



Image 10: silver dollar gum #28



Image 11: silver dollar gum #29



Image 12: silver dollar gum #30



Image 13: silver dollar gum #31



Image 14: silver dollar gum #32



Image 15: silver dollar gum #33



Image 16: silver dollar gum #34



Image 17: silver dollar gum #35



Image 18: silver dollar gum #36



Image 19: London plane #37



Image 20: silver dollar gum #38



Image 21: silver dollar gum #39



Image 22: London plane #41



Image 23: western cottonwood #42



Image 24: London plane #44



Image 25: London plane #45



Image 26: London plane #46

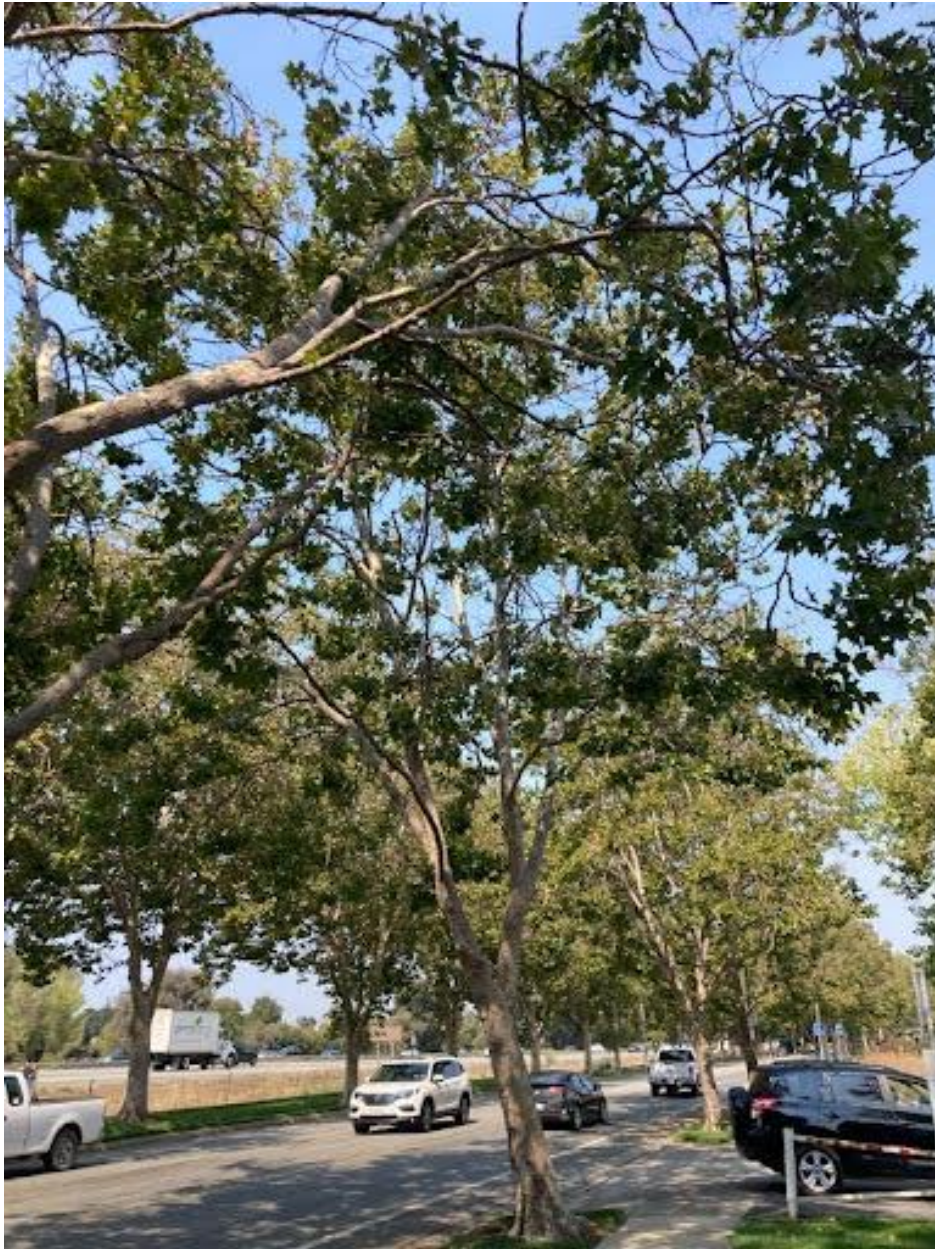


Image 27: London plane #47



Image 28: London plane #48



Image 29: coast redwood #49



Image 30: coast redwood #50



Image 31: London plane #51



Image 32: London plane #52



Image 33: London plane #53



Image 34: London plane #54



Image 35: London plane #55



Image 36: London plane #56



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Respectfully submitted,



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