

430-18
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SUBJECT: Dignity Health Project—Tree Survey Report (Candidate Trees)

Per your request, ENPLAN conducted a tree survey for the proposed Dignity Health Project Site. The ±10.5-acre site is located southwest of the intersection of Cypress Avenue and Hartnell Avenue, at the terminus of Henderson Road, in the City of Redding, Shasta County. The site is situated approximately 480 feet above sea level.

A total of 82 trees ≥6-inch diameter at breast height (dbh) were identified on the study site. The purpose of the current tree survey was to determine if any of the subject trees or tree groupings warrant preservation based on criteria established by the City of Redding.

City of Redding Tree Protection Ordinances and Permitting

The Redding Municipal Code provides tree protection through the Streets and Sidewalks Ordinance, Chapter 13.40.010 Trees and Shrubs and through the Zoning Ordinance, Chapter 18.45.030 Tree Management. As described in Chapter 13.40.010, trees that are considered unique, outstanding specimens of desirable species, have historic interest, or are of distinct form will be identified and preserved in a Landmark and Heritage Tree Plan developed by the community services advisory commission. According to City staff, no landmark or heritage trees have been identified on the subject site (Lily Toy, pers. comm.).

The City of Redding Zoning Ordinance, Chapter 18.45.030, states that “no tree, regardless of species, that exceeds 6 inches dbh on any developed or undeveloped/vacant property in the city shall be destroyed, killed, or removed unless a tree removal permit is first obtained.” An application for a “Discretionary Permit”, as described in Chapter 18.45.070, will also serve as “an application for tree removal in those instances where trees will be affected by the development.”

To secure a Discretionary Permit, “candidate trees” and “candidate tree groupings”, as defined under Chapter 18.61, must be identified on the site. These trees are classified as a single healthy tree or group of healthy trees warranting consideration for preservation by virtue of its value to the community, the immediate neighborhood, or the natural environment in recognition of the existence of one or more of the following attributes:

- It is an outstanding specimen of its species in terms of aesthetic quality as determined by shape and branch structure.
- It is one of the largest or oldest trees in Redding that also has historical or neighborhood interest.
- It adds significantly to the environment of the City because of its location, distinct form, unique species, or other identifying characteristics.
- It is in a location which is connected to a larger natural woodland system, such as a permanent open-space area, and which is likely to be self-supporting over time.
- It serves a desirable function, such as buffering dissimilar land uses, or is a component of an overall landscape plan.

Section 18.45.060 states that prior to any work done on the site, “every tree designated for removal on the approved site plan that is outside the proposed right-of-way or easement areas shall be clearly marked in the field.” Section 18.45.080 states that “a pre-construction meeting” be “held with the contractor and City staff to review any tree protection measures required.”

Tree Survey Methodology

The following methodology was used for the tree survey:

- The site was inspected to identify and record all candidate trees and candidate tree groupings.
- Species, dbh (diameter at breast height), and health were determined for all recorded trees. Health was rated on a scale of 1-5 (Poor-Excellent). Health factors include crown diameter, density and length; trunk defects; epicormic branching; condition of old and new wood, etc.
- Diameters were measured with a diameter tape approximately 4½ feet above the ground surface.
- Candidate trees were labeled with a numbered metal tree tag.

Tree Survey Results

The site was surveyed on July 23, 2018, to identify the presence of candidate trees and candidate tree groupings, as defined above. The survey was conducted by Rico Montenegro, Certified Arborist #WE-6734A. A total of 15 candidate trees were recorded on the site; no candidate tree groupings were observed (Figure 1). Candidate trees, including their identification number, species, size, and health rating, are shown in Table 1. Non-candidate trees identified on the site exhibit smaller diameters and, generally speaking, are structurally sound. However, the arborist did not consider the remaining trees as meeting the criteria necessary for candidate status.

Candidate trees species consisted of Fremont cottonwood (*Populus fremontii*), California sycamore (*Platanus racemosa*), interior live oak (*Quercus wislizeni*), and valley oaks (*Quercus lobata*), with 10-inch or greater dbh. Generally speaking, candidate trees are in good to excellent health (rating 4-5).

**Table 1
 Candidate Trees**

| Tag Number | Species | Rating | Diameter Breast Height (inches) |
|------------|---------------------|--------|---------------------------------|
| 241 | California Sycamore | 5 | 31 |
| 242 | California Sycamore | 5 | 35 |
| 243 | Fremont Cottonwood | 5 | 31 |
| 244* | Fremont Cottonwood | 4 | 20, 24 |
| 245 | Fremont Cottonwood | 5 | 25 |
| 246* | Fremont Cottonwood | 5 | 21, 23 |
| 247 | Fremont Cottonwood | 4 | 38.5 |
| 248 | Valley Oak | 5 | 40 |
| 249* | Fremont Cottonwood | 4 | 22, 20, 28 |
| 250 | Valley Oak | 5 | 47 |
| 251* | Fremont Cottonwood | 3 | 10, 15 |
| 252 | Valley Oak | 5 | 12.5 |
| 253 | Fremont Cottonwood | 4 | 33 |
| 254 | Fremont Cottonwood | 4 | 19 |
| 255* | Interior Live Oak | 4 | 13.5, 18 |

* Multi-trunked trees

City of Redding Application Process

An application for a Discretionary Permit shall also be considered an application for tree removal in those instances where trees will be affected by the development of this site. Further, where all identified candidate trees cannot be preserved, the design of the development should address preservation of the most desirable and significant of the healthy candidate trees, particularly candidate tree groupings. However, at the City's discretion, the tree preservation requirements can be waived based on site characteristics and/or proposed plans for grading and infrastructure improvements.

Please call us if you have any questions regarding the results of our tree survey.

Sincerely,

John Luper
 Environmental Scientist

encl. Figure 1. Tree Survey Results



All depictions are approximate. Not a survey product. 08.09.18

Figure 1

Tree Survey Results

