





## **Revised Arborist Report**

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Parkside Trails  
Cupertino, CA

**Prepared for:**  
Standard Pacific Homes  
3825 Hopyard Rd., Suite 275  
Pleasanton, CA 94588

**Prepared by:**  
HortScience, Inc.  
325 Ray Street  
Pleasanton CA 94566

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Parkside Trails, Cupertino CA

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***Tree Assessment Form***

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## ***Introduction and Overview***

Standard Pacific Homes is proposing to develop 8.5 acres of the 42.5 acre Parkside Trails property located on Stevens Canyon Rd., in Cupertino, California. The project includes construction of 18 lots on the northeastern portion of the lot adjacent to Stevens Canyon Rd., with the remainder of the property being dedicated as open space. HortScience, Inc. was asked to prepare an **Arborist Report** for the project for review by the City of Cupertino.

This report provides the following information:

1. An assessment of the health and structural condition of those trees within and immediately adjacent to the 8.5 acre development area.
2. Identification of *Protected* trees as defined by the City of Cupertino Ordinance #14-18.
3. An assessment of the impacts of constructing the proposed project on the trees.
4. Guidelines for tree preservation during the design, construction and maintenance phases of development.

## ***Assessment Methods***

Trees were assessed in February (#1-261) and December (#262-316) of 2013 and April (#316-319) of 2014. The assessment included all trees 6" and greater in diameter. The survey procedure consisted of the following steps:

1. Tagging each tree with a numerically coded metal tag.
2. Identifying the tree as to species;
3. Measuring the trunk diameter at a point 54" above grade;
4. Evaluating the health and structural condition using a scale of 1 – 5:
  - 5 - A healthy, vigorous tree, reasonably free of signs and symptoms of disease, with good structure and form typical of the species.
  - 4 - Tree with slight decline in vigor, small amount of twig dieback, minor structural defects that could be corrected.
  - 3 - Tree with moderate vigor, moderate twig and small branch dieback, thinning of crown, poor leaf color, moderate structural defects that might be mitigated with regular care.
  - 2 - Tree in decline, epicormic growth, extensive dieback of medium to large branches, significant structural defects that cannot be abated.
  - 1 - Tree in severe decline, dieback of scaffold branches and/or trunk; most of foliage from epicormics; extensive structural defects that cannot be abated.
5. Rating the suitability for preservation as "high", "moderate" or "low". Suitability for preservation considers the health, age and structural condition of the tree, and its potential to remain an asset to the site for years to come.

**High:** Trees with good health and structural stability that have the potential for longevity at the site.

**Moderate:** Trees with somewhat declining health and/or structural defects than can be abated with treatment. The tree will require more intense management and monitoring, and may have shorter life span than those in 'high' category.

**Low:** Trees in poor health or with significant structural defects that cannot be mitigated. Tree is expected to continue to decline, regardless of treatment. The species or individual may have characteristics that are undesirable for landscapes, and generally are unsuited for use areas.

### Description of Trees

Three hundred nineteen (319) trees were evaluated, representing 16 species. A total of 17 off-site or property line trees, with portions of their crowns extending onto the development site were included in the assessment (#1-3, 15-17, 26, 30, 32, 34, 36, 185, 307, 308, 311, 313 and 317). Tree #175 was located within the right-of-way and is considered a *Street Tree*. Descriptions of each tree are found in the **Tree Assessment Forms**, and locations are shown on the **Tree Assessment Map** (see attachments).

The site sits at the edge of the oak-bay woodlands that extend down the east side of the coastal mountain range in this area. Stevens Creek runs along the south side of the project site, with houses to the north and parks and open spaces to the south, west and east.

Vegetation at the site was almost exclusively coast live oak. Exotic species were concentrated around the periphery (some of which were off-site) and adjacent to the former entrance to the property off of Stevens Canyon Road.

The most frequently occurring species was coast live oak, with 254 trees, or about 80% of the population. One hundred sixty-four (164) of the coast live oaks were in good or excellent condition, 79 were in fair and 11 were in poor (Table 1).

Coast live oaks were growing in groups, or stands, where one or two trees were dominant and the rest were subordinate. Dominant trees tended to be semi-mature to mature, with diameters from 18" to 30", and in good to excellent condition. Subordinate trees were typically young to semi-mature (<18" in diameter) and growing at the edge of the group or beneath the canopies of their larger neighbors (Photo 1, following page). The competition for light and resources among this group often produced trees in fair condition, that leaned or had asymmetric or one sided crowns. Where disturbance had occurred, such as along the slopes adjacent to the existing road, there were also many young coast live oaks (6-12" in diameter) in good to excellent condition (Photo 2, following page).

**Table 1: Condition ratings and frequency of occurrence of trees.  
Parkside Trails, Cupertino**

Common name	Scientific name	Condition			Total
		Poor (1-2)	Fair (3)	Good (4-5)	
Big leaf maple	<i>Acer macrophyllum</i>	2	1	-	3
African fern pine	<i>Afrocarpus falcatus</i>	-	-	1	1
Deodar cedar	<i>Cedrus deodara</i>	-	-	2	2
Blue gum	<i>Eucalyptus globulus</i>	5	7	6	18
Calif. black walnut	<i>Juglans hindsii</i>	8	5	-	13
Olive	<i>Olea europaea</i>	-	-	1	1
Monterey pine	<i>Pinus radiata</i>	-	1	1	2
Fremont cottonwood	<i>Populus fremontii</i>	2	-	-	2
Almond	<i>Prunus dulcis</i>	1	-	-	1
Coast live oak	<i>Quercus agrifolia</i>	11	79	164	254
Blue oak	<i>Quercus douglasii</i>	-	1	-	1
Valley oak	<i>Quercus lobata</i>	-	4	7	11
Arroyo willow	<i>Salix lasiolepis</i>	1	-	-	1
Coast redwood	<i>Sequoia sempervirens</i>	1	1	1	3
Calif. bay	<i>Umbellularia californica</i>	-	4	1	5
Mexican fan palm	<i>Washingtonia robusta</i>	-	-	1	1
<b>Total</b>		<b>31</b>	<b>103</b>	<b>185</b>	<b>319</b>
		10%	32%	59%	100%



**Photo 1:** Coast live oak #41 (L) was the dominant tree. Valley oak #42 (R, arrow) was suppressed beneath the canopy of #41, producing a tree that leaned west to horizontal.

Eighteen (18) blue gum eucalyptus were concentrated along the edges of the existing road. One of these (#185) was just off-site to the south. In general, these were mature to over-mature trees, with diameters from 20-55". Eight (8) had multiple attachments at the base and two (2) of these appeared to be stump sprouts. Blue gums were in good (6 trees) to fair (7 trees) condition, with five (5) in poor condition. The majority of the blue gums were in decline, with dead tops or dieback from 6" to 10" in diameter throughout the crowns. The trunks of two of the blue gums (#87 and 88) were being girdled by wires, resulting in their decline.

Thirteen (13) Calif. Black walnuts were growing on site, making up 4% of the population. The Calif. black walnuts were in poor condition (8 trees) to fair condition (5 trees). These trees had been planted in the area between the existing road and the property line to the south. All were remnants of an orchard and were in decline, with extensive dieback and trunk decay.



**Photo 2:** Open-grown coast live oak #166 was semi-mature, at 15" in diameter. The tree was in good condition and was typical of the other open-grown oaks at the site.

Valley oak was represented by eleven (11) trees, or 3% of the population. One of the valley oaks was off-site (#3) and mature in form and development, at 24" in diameter. On-site valley oaks were young to semi-mature (7" to 18" in diameter) and intermixed with coast live oaks. Six (6) were in good condition and three (3) were in fair. None of the valley oaks were in poor condition. Just like the coast live oaks, valley oaks in good condition were upright and open grown, and those in fair condition, with suppressed forms (photo 1, previous page).

Overall, tree condition was good (187 trees or 59%) to fair (101 trees or 32%). Thirty-one (31) trees were in poor condition (10%), five (5) of which were blue gum eucalyptus and eight (8) were Calif. black walnuts. Tree size ranged from 6" to 55" in diameter for single-trunked trees. One hundred twenty-seven (127) trees had multiple trunks arising below 54".

The City of Cupertino defines certain species with a diameter of 10" for single-trunked trees, and 20" for multi-trunked trees, as *Protected*. Based on this definition, 173 of the trees assessed on the site qualified as *Protected*. *Protected* trees are identified in the **Tree Assessment Forms** (see attachments).

### ***Suitability for Preservation***

Before evaluating the impacts that will occur during development, it is important to consider the quality of the tree resource itself, and the potential for individual trees to function well over an extended length of time. Trees that are preserved on development sites must be carefully selected to make sure that they may survive development impacts, adapt to a new environment and perform well in the landscape.

Our goal is to identify trees that have the potential for long-term health, structural stability and longevity. For trees growing in open fields or creek channels, away from areas where people and property are present, structural defects and/or poor health presents a low risk of damage or injury if they fail. However, we must be concerned about safety in use areas. Therefore, where development encroaches into existing plantings, we must consider their structural stability as well as their potential to grow and thrive in a new environment. Where development will not occur, the normal life cycles of decline, structural failure and death should be allowed to continue.

Evaluation of suitability for preservation considers several factors:

- **Tree health**  
Healthy, vigorous trees are better able to tolerate impacts such as root injury, demolition of existing structures, changes in soil grade and moisture, and soil compaction than are non-vigorous trees.
- **Structural integrity**  
Trees with significant amounts of wood decay and other structural defects that cannot be corrected are likely to fail. Such trees should not be preserved in areas where damage to people or property is likely. Coast live oak #51 is an example of such a tree.
- **Species response**  
There is a wide variation in the response of individual species to construction impacts and changes in the environment. In our experience, for example, Calif. black walnut is intolerant of root loss, valley oak is moderately sensitive to site disturbance, and coast live oak is tolerant of root loss.
- **Tree age and longevity**  
Old trees, while having significant emotional and aesthetic appeal, have limited physiological capacity to adjust to an altered environment. Young trees are better able to generate new tissue and respond to change.

- **Species invasiveness**

Species which spread across a site and displace desired vegetation are not always appropriate for retention. This is particularly true when indigenous species are displaced. The California Invasive Plant Inventory Database (<http://www.cal-ipc.org/paf/>) lists species identified as being invasive. Cupertino is part of the Central West Floristic Province. Blue gum eucalyptus and olive were the only species present at the Parkside Trails site identified as invasive.

Each tree was rated for suitability for preservation based upon its age, health, structural condition and ability to safely coexist within a development environment. Table 2 provides a summary of the suitability ratings. Suitability ratings for individual trees are included in the **Tree Assessment Form** (see attachments).

**Table 2: Tree Suitability for Preservation  
Parkside Trails, Cupertino**

<b>High</b>	These are trees with good health and structural stability that have the potential for longevity at the site. One hundred thirteen (113) trees were highly suitable for preservation; including 105 coast live oaks, four (4) valley oaks, and one (1) each of deodar cedar, Mexican fan palm, Monterey pine and olive.
<b>Moderate</b>	Trees in this category have fair health and/or structural defects that may be abated with treatment. Trees in this category require more intense management and monitoring, and may have shorter life-spans than those in the "high" category. One hundred thirty-eight (138) trees were of moderate suitability for preservation, including 112 coast live oaks, 10 blue gum eucalyptus, six (6) valley oaks, three (3) Calif. bays, two (2) coast redwoods, and one (1) each of deodar cedar, Monterey pine, African fern pine, blue oak and big-leaf maple.
<b>Low</b>	Trees in this category are in poor health or have significant defects in structure that cannot be abated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas. Sixty-eight (68) trees had low suitability for preservation, including 37 coast live oaks, thirteen (13) Calif. black walnuts, eight (8) blue gum eucalyptus, two (2) big-leaf maples, two (2) Fremont cottonwoods, and one (1) each of coast redwood, valley oak, almond and arroyo willow.



### ***Evaluation of Impacts and Recommendations***

Appropriate tree retention develops a practical match between the location and intensity of construction activities and the quality and health of trees. The ***Tree Assessment Form*** was the reference point for tree condition and quality. Potential impacts from construction were evaluated using the Vesting Tentative Map prepared Carlson, Barbee & Gibson, Inc. (dated February 14, 2014).

The plan proposes to construct 18 single-family residences on the site. A new road would be installed along the southern boundary, connecting to Stevens Canyon Rd., with a new sewer line extending off-site to the east. A detention basin is proposed in the southeast corner of the site. Remedial grading and a new storm drain outfall are also proposed along the southern property boundary. Grading, buildings, driveways, utilities and were shown on the plans. Accurate tree locations were present for some, but not all of the trees.

Potential impacts from construction were estimated for each tree. The most significant impacts to the trees would occur as a result of the grading of the central portion of the site to create level lots for buildings and along the southern boundary for the new road and remediation.

Based on my evaluation of the plans and associated impacts on the trees, 52 trees can be preserved, including 37 *Protected* trees. Preservation is predicated on establishing a ***Tree Protection Zone*** and other recommendations listed in the ***Tree Preservation Guidelines*** (page 13).

Removal would be required for 267 trees, including 167 that would fall within grading for the lots, driveways and residences, 59 within the remedial grading, 35 impacted by the proposed road alignment, and three within the detention basin. Of the trees identified for removal, 57 had low suitability for preservation and 136 qualified as *Protected*. Table 3 lists the trees recommended or removal, along with their *Protected* status and a description of impacts.

Several off-site trees would be impacted by grading, retaining walls and road alignment. Pruning or removal of off-site trees must be done with the property owner's permission.

**Table 3: Trees identified for removal  
Parkside Trails, Cupertino**

<b>Tree #</b>	<b>Species</b>	<b>Trunk Diameter (in)</b>	<b>Protected?</b>	<b>Impact</b>
2	Deodar cedar	14	Yes	Within L3 grading
3	Valley oak	24	Yes	Impacted by L3 grading
4	Coast live oak	22,17	Yes	Within L3 bldg. footprint
5	Coast live oak	24,18	Yes	Within L3 driveway
6	Coast live oak	19	Yes	Within L3 driveway
7	Coast live oak	12	Yes	Within L3 driveway
8	Coast live oak	7,5	No	Within L3 driveway
9	Coast live oak	16	Yes	Within L4 grading
10	Coast live oak	17	Yes	Within L4 grading
11	Valley oak	8,4	No	Within L4 bldg. footprint
12	Valley oak	16	Yes	Within L4 bldg. footprint
13	Valley oak	15	Yes	Within L4 grading
14	Coast live oak	25	Yes	Within L4 grading
15	Big leaf maple	6,5,4,3	No	Within L4 retaining wall
16	Olive	14	No	Within L4 retaining wall

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**Table 3: Trees identified for removal, continued  
Parkside Trails, Cupertino**

<b>Tree #</b>	<b>Species</b>	<b>Trunk Diameter (in)</b>	<b>Protected?</b>	<b>Impact</b>
17	Coast redwood	25	No	Within L4 retaining wall
18	Coast live oak	8	No	Within L9 grading
19	Coast live oak	9,4	No	Within L9 grading
20	Coast live oak	15	Yes	Within L9 grading
21	Monterey pine	6	No	Within L9 ret. wall
22	Coast live oak	12	Yes	Within L9 grading
23	Coast live oak	15,11,8	Yes	Within L9 grading
24	Coast live oak	18	Yes	Within L9 driveway
25	Coast live oak	7,4	No	Within L15 grading
27	Mexican fan palm	20	No	Within L15 grading
28	Valley oak	12	Yes	Within L15 grading
29	Coast live oak	6,4	No	Within L15 grading
31	Coast live oak	8,6,5	No	Within L15 grading
33	Valley oak	7	No	Within L15 grading
34	African fern pine	7,6,4,3	No	Within L16 ret. wall
35	Coast live oak	11,10	Yes	Within L16 ret. wall
47	Coast live oak	6,4,2	No	Within L18 grading
48	Coast live oak	6	No	Within L18 grading
49	Coast live oak	12,11,5	Yes	Within L18 grading
50	Coast live oak	6	No	Within L18 grading
51	Coast live oak	19,12	Yes	Within L18 grading
52	Coast live oak	8	No	Within L18 grading
53	Coast live oak	7,5	No	Within L18 grading
54	Coast live oak	8	No	Within L18 grading
55	Coast live oak	10	Yes	Within L18 grading
56	Coast live oak	10,9	Yes	Within L18 bldg. footprint
57	Coast live oak	7	No	Within L17 grading
58	Coast live oak	7	No	Within L17 grading
59	Coast live oak	14	Yes	Within L17 bldg. footprint
60	Coast live oak	11	Yes	Within L17 bldg. footprint
61	Coast live oak	17,13	Yes	Within L17 bldg. footprint
62	Coast live oak	9,6	No	Within L17 bldg. footprint
63	Coast live oak	14,13,12,8	Yes	Within L17 bldg. footprint
64	Coast live oak	22	Yes	Within L17 driveway
65	Coast live oak	12,11,10	Yes	Within L17 bldg. footprint
66	Coast live oak	7	No	Within road
67	Coast live oak	7	No	Within road
68	Coast live oak	10	Yes	Within road
69	Coast live oak	13,12	Yes	Within L14 grading
70	Coast live oak	16	Yes	Within L14 driveway
71	Coast live oak	9,8	No	Within L16 driveway
72	Coast live oak	12	Yes	Within L16 driveway
73	Coast live oak	6	No	Within L16 driveway

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**Table 3: Trees recommended for removal, continued**  
**Parkside Trails, Cupertino**

<b>Tree #</b>	<b>Species</b>	<b>Trunk Diameter (in)</b>	<b>Protected?</b>	<b>Impact</b>
74	Coast live oak	7	No	Within L16 grading
75	Coast live oak	8,7	No	Within L15 grading
76	Coast live oak	22,18	Yes	Within L14 bldg. footprint
77	Coast live oak	8,7	No	Within L15 bldg. footprint
78	Coast live oak	13,12	Yes	Within L15 bldg. footprint
79	Coast live oak	19,17,6	Yes	Within L15 grading
80	Coast live oak	13	Yes	Within L15 grading
81	Coast live oak	12,11,9	Yes	Within L15 grading
82	Coast live oak	12	Yes	Within L15 grading
83	Coast live oak	10	Yes	Within L10 grading
84	Coast live oak	9,8,6	Yes	Within L10 grading
85	Coast live oak	17,14,10,6	Yes	Within L15 grading
86	Coast live oak	6	No	Within L10 grading
87	Blue gum	24	No	Within L3 grading
88	Blue gum	21,17,12,12	No	Within L3 grading
89	Blue gum	48,20,19	No	Within L3 grading
90	Blue gum	40,22	No	Within L2 grading
91	Blue gum	19,19	No	Within L2 bldg. footprint
92	Blue gum	40	No	Within L2 grading
93	Blue gum	10,9,8,7,7	No	Within L2 bldg. footprint
94	Coast live oak	13	Yes	Within L2 grading
95	Blue gum	28,16,15	No	Within L2 bldg. footprint
96	Blue gum	48	No	Within L2 grading
97	Blue gum	38	No	Within L6 driveway
98	Blue gum	20,19,17,15	No	Within L6 grading
99	Coast live oak	10	Yes	Within L1 bldg. footprint
100	Coast live oak	9	No	Within L1 bldg. footprint
101	Coast live oak	10,9,8	Yes	Within L1 grading
102	Blue gum	45,24	No	Within road
103	Coast live oak	9	No	Within L4 grading
104	Coast live oak	11,9,7	Yes	Within L4 grading
105	Coast live oak	17	Yes	Within L9 grading
106	Coast live oak	7	No	Within L4 grading
107	Coast live oak	28	Yes	Within L5 grading
108	Coast live oak	15	Yes	Within L5 grading
109	Coast live oak	14,12	Yes	Within L5 grading
110	Coast live oak	16,10	Yes	Within L8 grading
111	Coast live oak	9,7	No	Within L8 grading
112	Coast live oak	14	Yes	Within L8 grading
113	Coast live oak	17	Yes	Within L8 grading
114	Coast live oak	15,8	Yes	Within L8 bldg. footprint
115	Coast live oak	12,11	Yes	Within L8 grading
116	Coast live oak	12,9	Yes	Within L8 grading

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**Table 3: Trees recommended for removal, continued**  
**Parkside Trails, Cupertino**

<b>Tree #</b>	<b>Species</b>	<b>Trunk Diameter (in)</b>	<b>Protected?</b>	<b>Impact</b>
117	Coast live oak	16	Yes	Within L7 grading
118	Coast live oak	22,15,15,10	Yes	Within L7 grading
119	Coast live oak	10	Yes	Within L7 grading
120	Coast live oak	10,9,7,6	Yes	Within L7 bldg. footprint
121	Coast live oak	17	Yes	Within L7 bldg. footprint
122	Coast live oak	18	Yes	Within L7 bldg. footprint
123	Coast live oak	15,14,12,11	Yes	Within L8 grading
124	Coast live oak	8,7,4	No	Within L8 bldg. footprint
125	Coast live oak	13	Yes	Within L8 bldg. footprint
126	Monterey pine	6	No	Within L8 bldg. footprint
127	Coast live oak	9,8	No	Within L8 ret. wall
128	Coast live oak	9	No	Within L9 grading
129	Coast live oak	13,12	Yes	Within L9 bldg. footprint
130	Coast live oak	20	Yes	Within L9 grading
131	Coast live oak	13	Yes	Within L8 grading
132	Coast live oak	6	No	Within L8 grading
133	Coast live oak	11	Yes	Within L11 bldg. footprint
134	Coast live oak	20	Yes	Within L11 bldg. footprint
135	Coast live oak	11	Yes	Within L11 bldg. footprint
136	Coast live oak	18,17	Yes	Within L11 bldg. footprint
137	Coast live oak	12	Yes	Within L11 bldg. footprint
138	Coast live oak	15,12	Yes	Within L11 bldg. footprint
139	Coast live oak	6	No	Within L11 grading
140	Coast live oak	7	No	Within L11 grading
141	Coast live oak	15,13,13	Yes	Within L14 grading
142	Coast live oak	7	No	Within L14 bldg. footprint
143	Coast live oak	18	Yes	Within L13 grading
144	Coast live oak	16,14,9	Yes	Within L12 grading
145	Coast live oak	9	No	Within L12 bldg. footprint
146	Coast live oak	6,5	No	Within L12 bldg. footprint
147	Coast live oak	10,6	Yes	Within L12 grading
148	Coast live oak	10,6	Yes	Within L12 grading
149	Coast live oak	10	Yes	Within L12 grading
150	Coast live oak	6	No	Within road
151	Coast live oak	13	Yes	Within road
152	Coast live oak	10,10	Yes	Within L7 grading
153	Coast live oak	6	No	Within L7 driveway
154	Coast live oak	16,16	Yes	Within L7 grading
155	Coast live oak	14	Yes	Within L8 grading
156	Coast live oak	6,4	No	Within road
157	Coast live oak	7	No	Within road
158	Coast live oak	8,7,7	Yes	Within L7 grading
159	Coast live oak	12,11,8	Yes	Within road

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**Table 3: Trees recommended for removal, continued**  
**Parkside Trails, Cupertino**

<b>Tree #</b>	<b>Species</b>	<b>Trunk Diameter (in)</b>	<b>Protected?</b>	<b>Impact</b>
160	Blue gum	48	No	Within remedial grading
161	Coast live oak	11	Yes	Within remedial grading
162	Blue gum	50	No	Within remedial grading
163	Blue gum	45	No	Within remedial grading
164	Coast live oak	6,3,3	No	Within L2 grading
165	Calif. black walnut	11,7,4	No	Within L2 grading
166	Coast live oak	15	Yes	Within L2 grading
167	Coast live oak	6,4	No	Within entry grading
168	Calif. black walnut	13,12,11,9	No	Within L2 grading
169	Coast live oak	7	No	Within L2 grading
170	Coast live oak	11	Yes	Within L2 grading
171	Coast live oak	7	No	Within L2 grading
172	Coast live oak	11,6	Yes	Within L1 grading
173	Calif. black walnut	11,9,6,6	No	Within L1 grading
174	Calif. black walnut	10,10,8,8,7	No	Within road
175	Coast live oak	12,9,9,7,6,5	Yes	Within road
176	Coast live oak	7,6	No	Within road
177	Calif. black walnut	6,5,5,4	No	Within L1 ret. wall
178	Coast live oak	13,12	Yes	Within L1 grading
179	Calif. black walnut	6,5,5,5	No	Within L1 grading
180	Coast live oak	12	Yes	Within road
181	Calif. black walnut	7,6,5,5	No	Within road
182	Coast live oak	6	No	Within road
183	Calif. black walnut	9	No	Within road
184	Calif. black walnut	7,6,5,4,4,4	No	Within L1 bldg. footprint
185	Blue gum	48	No	Within remedial grading
186	Coast live oak	7	No	Within remedial grading
187	Coast live oak	12,5	Yes	Within remedial grading
188	Coast live oak	7	No	Within remedial grading
189	Coast live oak	12,11,9	Yes	Within road
190	Coast live oak	6,4	No	Within road
191	Coast live oak	10	Yes	Within road
192	Coast live oak	11	Yes	Within road
193	Coast live oak	6,4	No	Within road
194	Coast live oak	9,7	No	Within road
195	Coast live oak	7	No	Within road
196	Coast live oak	8	No	Within road
197	Coast live oak	7,6	No	Within road
198	Coast live oak	7,6	No	Within L12 bldg. footprint
199	Coast live oak	7	No	Within L12 bldg. footprint
200	Coast live oak	20	Yes	Within L12 bldg. footprint
201	Coast live oak	6	No	Within L12 bldg. footprint
202	Blue gum	55	No	Within L12 ret. wall

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**Table 3: Trees recommended for removal, continued**  
**Parkside Trails, Cupertino**

<b>Tree #</b>	<b>Species</b>	<b>Trunk Diameter (in)</b>	<b>Protected?</b>	<b>Impact</b>
203	Arroyo willow	12	No	Within L12 grading
204	Coast live oak	15,13,6	Yes	Within remedial grading
205	Coast live oak	6	No	Within remedial grading
206	Coast live oak	10	Yes	Within remedial grading
207	Coast live oak	8,5	No	Within remedial grading
208	Coast live oak	9	No	Within remedial grading
209	Coast live oak	14	Yes	Within remedial grading
210	Big leaf maple	6,3	No	Within remedial grading
211	Coast live oak	7,6	No	Within remedial grading
212	Coast live oak	17	Yes	Within remedial grading
213	Coast live oak	15,7	Yes	Within remedial grading
214	Coast live oak	10	Yes	Within remedial grading
215	Coast live oak	8	No	Within remedial grading
216	Coast live oak	10	Yes	Within remedial grading
217	Coast live oak	6	No	Within remedial grading
218	Coast live oak	7	No	Within remedial grading
219	Coast live oak	8,7	No	Within remedial grading
220	Coast live oak	9,7	No	Within remedial grading
221	Coast live oak	10	Yes	Within remedial grading
230	Valley oak	7	No	Within remedial grading
231	Fremont cottonwood	7	No	Within L13 grading
232	Coast live oak	19	Yes	Within L13 grading
233	Coast live oak	12,11,10,9,9	Yes	Within L13 bldg. footprint
234	Coast live oak	11,10	Yes	Within L13 bldg. footprint
235	Coast live oak	6	No	Within L13 bldg. footprint
236	Coast live oak	7	No	Within L13 bldg. footprint
237	Coast live oak	6	No	Within L13 bldg. footprint
238	Coast live oak	7	No	Within L13 bldg. footprint
239	Coast live oak	18	Yes	Within L13 bldg. footprint
240	Fremont cottonwood	17	No	Within L18 grading
241	Coast live oak	22,8	Yes	Within L18 grading
242	Coast live oak	13,10,9,7,5	Yes	Within L18 grading
243	Coast live oak	17	Yes	Within road
244	Big leaf maple	14	Yes	Within road
245	Coast live oak	6	No	Within road
246	Coast live oak	11	Yes	Within road
247	Coast live oak	8	No	Within road
248	Valley oak	9,6	No	Within road
249	Coast live oak	9	No	Within road
250	Coast live oak	6	No	Within det. basin grading
251	Coast live oak	14	Yes	Within road
252	Coast live oak	6	No	Within road
253	Coast live oak	17	Yes	Within road

(Continued, following page)

**Table 3: Trees recommended for removal, continued**  
**Parkside Trails, Cupertino**

<b>Tree #</b>	<b>Species</b>	<b>Trunk Diameter (in)</b>	<b>Protected?</b>	<b>Impact</b>
254	Coast live oak	17,15	Yes	Within remedial grading
255	Coast live oak	10,8	Yes	Within det. basin grading
256	Coast live oak	18	Yes	Within remedial grading
261	Almond	10,5	No	Within det. basin grading
262	Calif. bay	7	No	Within remedial grading
263	Calif. bay	14,9,3	Yes	Within remedial grading
264	Coast live oak	20	Yes	Within remedial grading
267	Coast live oak	11	Yes	Within remedial grading
268	Coast live oak	13,13	Yes	Within remedial grading
269	Coast live oak	7	No	Within remedial grading
270	Coast live oak	6	No	Within remedial grading
271	Coast live oak	7,7	No	Within remedial grading
272	Coast live oak	10	Yes	Within remedial grading
273	Valley oak	20	Yes	Within remedial grading
274	Coast live oak	13	Yes	Within remedial grading
278	Coast live oak	7	No	Impacted by remedial grading
287	Coast live oak	7	No	Within remedial grading
293	Coast live oak	16,16	Yes	Within remedial grading
294	Coast live oak	7	No	Within remedial grading
296	Coast live oak	14	Yes	Within remedial grading
297	Coast live oak	13,13,13,6	Yes	Within remedial grading
298	Coast live oak	7	No	Within remedial grading
299	Coast live oak	13,4	Yes	Within remedial grading
301	Coast live oak	13	Yes	Within remedial grading
302	Coast live oak	10,7,3	Yes	Within remedial grading
306	Blue oak	10,9	Yes	Impacted by remedial grading
309	Coast live oak	6,3,2	No	Within remedial grading
310	Calif. black walnut	7,4,3,3,2	No	Within remedial grading
312	Coast live oak	11,11	Yes	Within remedial grading
314	Calif. black walnut	14,7	No	Within remedial grading
315	Coast live oak	12	Yes	Within remedial grading
316	Calif. black walnut	6,5,5,4,4	No	Within remedial grading
318	Coast live oak	12	Yes	Within remedial grading
319	Coast live oak	12	Yes	Within remedial grading

### ***Tree Preservation Guidelines***

The goal of tree preservation is not merely tree survival during development but maintenance of tree health and beauty for many years. Trees retained on sites that are either subject to extensive injury during construction or are inadequately maintained become a liability rather than an asset. The response of individual trees will depend on the amount of excavation and grading, the care with which demolition is undertaken, and the construction methods. Coordinating any construction activity inside the **TREE PROTECTION ZONE** can minimize these impacts.

The following recommendations will help reduce impacts to trees from development and maintain and improve their health and vitality through the clearing, grading and construction phases.

### ***Design recommendations***

1. Have the vertical and horizontal locations of all the trees identified for preservation established and plotted on all plans. Forward these plans to the Consulting Arborist for review and comment.
2. All plans affecting trees shall be reviewed by the Consulting arborist with regard to tree impacts. These include, but are not limited to, demolition plans, grading and utility plans, landscape and irrigation plans.
3. A **TREE PROTECTION ZONE** must be established for trees to be preserved, in which no disturbance is permitted. **TREE PROTECTION ZONES** for trees identified for preservation are identified in the following table. Trees identified for preservation that are not listed in the following table shall be protected at the dripline in all directions. No grading, excavation, construction or storage of materials shall occur within that zone.
4. Underground services including utilities, sub-drains, water or sewer shall be routed around the **TREE PROTECTION ZONE**. Where encroachment cannot be avoided, special construction techniques such as hand digging or tunneling under roots shall be employed where necessary to minimize root injury.

### **Specific Tree Protection Zones**

<b>Tree No.</b>	<b>TPZ</b>
#228 and 229	5' E., dripline in all other directions.
#223, 224, 266, 275 and 311	5' N., dripline in all other directions.
#40	7' W. and DL in all other directions.
#1	8' S. and DL in all other directions.
#30 and 32	8' in all other directions.
#295	8' N. and DL in all other directions.
#37, 39 and 42	8' W. and DL in all other directions.
#26 and 317	10' S. and DL in all other directions.
#43	10' W. and DL in all other directions.
#225	10' NW. and DL in all other directions.
#38	11' W. and DL in all other directions.
#45	12' W. and DL in all other directions.
#44 and 46	14' W. and DL in all other directions.
#260	15' W., 15' S. and DL in all other directions.
#41	15' W. and DL in all other directions.
#257 and 258	24' W. and DL in all other directions.
#259	28' W., 22' N. and DL in all other directions.



5. As trees withdraw water from the soil, expansive soils may shrink within the root area. Therefore, foundations, footings and pavements on expansive soils near trees should be designed to withstand differential displacement.
6. No underground services including utilities, sub-drains, water or sewer shall be placed in the **TREE PROTECTION ZONE**.
7. **Tree Preservation Notes**, prepared by the Consulting Arborist, should be included on all plans.
8. Do not lime within 50' of any tree. Lime is toxic to tree roots.
9. Any herbicides placed under paving materials must be safe for use around trees and labeled for that use.
10. Irrigation systems must be designed so that no trenching will occur not within the **TREE PROTECTION ZONE**.

***Pre-construction treatments and recommendations***

1. The construction superintendent shall meet with the Consulting Arborist before beginning work to discuss work procedures and tree protection.
2. Fence all trees to be retained to completely enclose the **TREE PROTECTION ZONE** prior to demolition, grubbing or grading. Fences shall be 6 ft. chain link or equivalent as approved by Consulting Arborist. Fences are to remain until all grading and construction is completed.
3. Pruning trees to provide construction and access clearance will be required. Trees #37-46, 259 and 260 have been preliminarily identified for pruning to provide construction and road clearance.
4. Prune trees to be preserved to clean the crown and to provide clearance. All pruning shall be done by a State of California Licensed Tree Contractor (C61/D49). All pruning shall be done by Certified Arborist or Certified Tree Worker in accordance with the Best Management Practices for Pruning (International Society of Arboriculture, 2002) and adhere to the most recent editions of the American National Standard for Tree Care Operations (Z133.1) and Pruning (A300).
5. Have brush from the pruning and removal operations chipped and spread beneath the trees within the **TREE PROTECTION ZONE**. Mulch shall be 2" to 4" in depth and kept a minimum of 3' from the base of the trees.

***Recommendations for tree protection during construction***

1. Prior to beginning work, the contractors working in the vicinity of trees to be preserved are required to meet with the Consulting Arborist at the site to review all work procedures, access routes, storage areas and tree protection measures.
2. No grading, construction, demolition or other work shall occur within the **TREE PROTECTION ZONE**. Any modifications must be approved and monitored by the Consulting Arborist.
3. Fences have been erected to protect trees to be preserved. Fences define a specific **TREE PROTECTION ZONE** for each tree or group of trees. Fences are to remain until all site work has been completed. Fences may not be relocated or removed without permission of the Consultant.

4. Construction trailers, traffic and storage areas must remain outside fenced areas at all times.
5. Prior to grading, pad preparation, excavation for foundations/footings/walls, trenching, trees may require root pruning outside the **TREE PROTECTION ZONE**. Any root pruning required for construction purposes shall receive the prior approval of, and be supervised by, the Consulting Arborist.
6. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Consulting Arborist so that appropriate treatments can be applied.
7. No excess soil, chemicals, debris, equipment or other materials shall be dumped or stored within the **TREE PROTECTION ZONE**.
8. Any additional tree pruning needed for clearance during construction must be performed by a Certified Arborist and not by construction personnel.

**Maintenance of impacted trees**

Preserved trees will experience a physical environment different from that pre-development. As a result, tree health and structural stability should be monitored. Occasional pruning, fertilization, mulch, pest management, replanting and irrigation may be required. In addition, provisions for monitoring both tree health and structural stability following construction must be made a priority. As trees age, the likelihood of failure of branches or entire trees increases. Therefore, annual inspection for hazard potential is recommended.

**HortScience, Inc.**



John Leffingwell  
Board Certified Master Arborist WE-3966B  
Registered Consulting Arborist #442

**Attached:      *Tree Assessment Form***

***Tree Assessment Map***

# Tree Assessment

**Parkside Trails**  
Cupertino, California  
February 2013 and  
April 2014



TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
1	Deodar cedar	13	Yes	4	High	Off-site; upright form; small trunk wound.
2	Deodar cedar	14	Yes	4	Moderate	Off-site; low laterals S.; twig dieback.
3	Valley oak	24	Yes	3	Moderate	Off-site; codominant trunks at 8'; basal cavity E.; fill at base.
4	Coast live oak	22,17	Yes	3	Moderate	Codominant trunks at base; narrow attachment; pruning
5	Coast live oak	24,18	Yes	4	High	Codominant trunks at 3'; good form; a little thin.
6	Coast live oak	19	Yes	4	Moderate	Upright form; one sided S.
7	Coast live oak	12	Yes	3	Moderate	Suppressed form; crown bowed S.
8	Coast live oak	7,5	No	3	Moderate	Codominant trunks at base; suppressed form; crown bowed S.
9	Coast live oak	16	Yes	5	High	Codominant trunks at 5'; good form and structure.
10	Coast live oak	17	Yes	4	Moderate	Crook at 8'; weight to S.
11	Valley oak	8,4	No	3	Moderate	Codominant trunks at base; trunk wound W.; one sided W.
12	Valley oak	16	Yes	4	High	Codominant trunks at 8'; good, upright form.
13	Valley oak	15	Yes	4	Moderate	Codominant trunks at 15'; one sided S; laterals S.
14	Coast live oak	25	Yes	4	Moderate	Multiple attachments at 7'; laterals S.; basal lateral on
15	Big leaf maple	6,5,4,3	No	3	Moderate	Off-site, no tag; multiple attachments at 3'; trunk wounds.
16	Olive	14	No	4	High	Off-site, no tag; multiple attachments at 6'; low laterals S.
17	Coast redwood	25	No	2	Low	Off-site, no tag; very thin crown; lost top.
18	Coast live oak	8	No	4	High	Crowded; upright, narrow form.
19	Coast live oak	9,4	No	4	Moderate	Crowded; crook at 4'; one sided S.
20	Coast live oak	15	Yes	4	Moderate	Codominant trunks at 6'; narrow attachment with seam;
21	Monterey pine	6	No	3	Moderate	Slight lean W.; trunk wound.
22	Coast live oak	12	Yes	4	Moderate	Crowded; one sided N.; lateral N.
23	Coast live oak	15,11,8	Yes	3	Moderate	Multiple attachment at base; split at attachment; two stems extend S. to horizontal.

# Tree Assessment

**Parkside Trails**  
Cupertino, California  
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April 2014



TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
24	Coast live oak	18	Yes	4	High	Multiple attachments at 7'; good form; fair branch structure.
25	Coast live oak	7,4	No	4	Moderate	Codominant trunks at 1'; seam in attachment; growing against fence.
26	Coast live oak	14,13,12,11	Yes	5	High	Off-site, no tag; multiple attachments at 2'; good form; extends 15' W. over fence.
27	Mexican fan palm	20	No	5	High	No tag; good form; 18' of clear trunk.
28	Valley oak	12	Yes	4	High	Multiple attachments at 8'; good form.
29	Coast live oak	6,4	No	3	Moderate	Codominant trunks at 2'; seam in attachment; suppressed form.
30	Coast live oak	7	No	3	Moderate	Off-site; one sided NE.; fence embedded in lower trunk.
31	Coast live oak	8,6,5	No	4	High	Multiple attachments at base; seam in attachment; good
32	Coast live oak	9	No	4	Moderate	On property line; slight lean NE.; basal wounds.
33	Valley oak	7	No	4	Moderate	Multiple attachments at 5'; one sided SE.
34	African fern pine	7,6,4,3	No	4	Moderate	Off-site, no tag; upright form; extends 7' W. over fence.
35	Coast live oak	11,10	Yes	4	Moderate	Codominant trunks at 2'; seam in attachment; growing against fence.
36	Coast redwood	36	No	4	Moderate	Off-site, no tag; upright form; thinning crown; extends 15' N. over fence.
37	Coast live oak	11	Yes	5	High	Multiple attachments at 5'; slightly one sided N; good form.
38	Coast live oak	8,7,7,6,6,6	Yes	5	High	Multiple attachments at base; most stems upright.
39	Coast live oak	7,6,6,5,3,3	Yes	5	High	Multiple attachments at base; most stems upright.
40	Coast live oak	11,8	Yes	4	High	Codominant trunks at base; 11" stem with slight crook; 6" stem upright.
41	Coast live oak	29,22,19	Yes	4	Moderate	Multiple attachments at 6'; low lateral N. with branch wound; big tree.

# Tree Assessment

**Parkside Trails**  
Cupertino, California  
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TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
42	Valley oak	18	Yes	3	Moderate	Codominant trunks at 7'; suppressed; crown bowed W. to horizontal.
43	Coast live oak	14	Yes	5	High	High crown; upright form.
44	Coast live oak	11	Yes	5	High	Crowded; high crown; upright form.
45	Coast live oak	10	Yes	5	High	Crowded; one sided W.; upright form.
46	Coast live oak	8	No	5	High	Good young tree; growing against fence.
47	Coast live oak	6,4,2	No	5	High	Multiple attachments at base; good young tree.
48	Coast live oak	6	No	5	High	Good young tree.
49	Coast live oak	12,11,5	Yes	4	Moderate	Multiple attachments at base; thin canopy; twig dieback.
50	Coast live oak	6	No	4	High	Upright form; thin canopy.
51	Coast live oak	19,12	Yes	3	Moderate	Multiple attachments at 5'; one sided W.; twig dieback.
52	Coast live oak	8	No	4	Moderate	Upright form; slight crook at 6'.
53	Coast live oak	7,5	No	3	Moderate	Codominant trunks at 1'; seam in attachment; high, small crown.
54	Coast live oak	8	No	4	High	Upright form; slight thinning of canopy.
55	Coast live oak	10	Yes	4	High	Crowded; asymmetric crown.
56	Coast live oak	10,9	Yes	4	Moderate	Codominant trunks at 1'; 9" stem is a low lateral NW.
57	Coast live oak	7	No	3	Moderate	Suppressed form; fair structure.
58	Coast live oak	7	No	5	High	Upright form.
59	Coast live oak	14	Yes	5	High	Multiple attachments at 6'; good form.
60	Coast live oak	11	Yes	4	Moderate	Crowded; asymmetric crown; basal wound.
61	Coast live oak	17,13	Yes	4	Moderate	Codominant trunks at base; spreading form; low branching.
62	Coast live oak	9,6	No	4	Moderate	Codominant trunks at base; crook at 4'; narrow form.
63	Coast live oak	14,13,12,8	Yes	4	Moderate	Multiple attachments at 4'; narrow attachments; seam in attachments; twig dieback.

# Tree Assessment

**Parkside Trails**  
Cupertino, California  
February 2013 and  
April 2014



TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
64	Coast live oak	22	Yes	4	High	Codominant trunks at 6'; seam in attachment; spreading form.
65	Coast live oak	12,11,10	Yes	4	Moderate	Multiple attachments at 1'; one sided W.; low branching.
66	Coast live oak	7	No	3	Moderate	Suppressed form; leans E.
67	Coast live oak	7	No	5	High	Good young tree; a little one sided W.
68	Coast live oak	10	Yes	3	Moderate	Crowded; asymmetric crown; crossing stems.
69	Coast live oak	13,12	Yes	4	High	Codominant trunks at 3'; wide attachment; good form.
70	Coast live oak	16	Yes	5	High	Multiple attachments at 10'; good form.
71	Coast live oak	9,8	No	4	Moderate	Codominant trunks at base; seam in attachment.
72	Coast live oak	12	Yes	4	High	Multiple attachments at 7'; fair branch structure; low lateral.
73	Coast live oak	6	No	3	Moderate	Crowded; asymmetric crown.
74	Coast live oak	7	No	4	High	Codominant trunks at 4'; narrow form.
75	Coast live oak	8,7	No	4	High	Codominant trunks at 4'; slight lean E.
76	Coast live oak	22,18	Yes	4	High	Codominant trunks at 3'; included bark; low branching.
77	Coast live oak	8,7	No	3	Moderate	Codominant trunks at 2'; wide attachment; crowded and one sided S.
78	Coast live oak	13,12	Yes	4	High	Codominant trunks at base; wide attachment; both stems upright.
79	Coast live oak	19,17,6	Yes	4	High	Codominant trunks at 3'; seam/included bark; low branching N.
80	Coast live oak	13	Yes	3	Low	Was codominant at base; half of tree failed on S. side.
81	Coast live oak	12,11,9	Yes	4	Moderate	Multiple attachments at 3'; seam/included bark; asymmetric form.
82	Coast live oak	12	Yes	4	Moderate	Codominant trunks at 3'; included bark; one sided W. with low lateral.
83	Coast live oak	10	Yes	3	Low	Suppressed form; leans E.
84	Coast live oak	9,8,6	Yes	3	Moderate	Multiple attachments at 3'; seam; asymmetric form.

# Tree Assessment

**Parkside Trails**  
Cupertino, California  
February 2013 and  
April 2014



TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
85	Coast live oak	17,14,10,6	Yes	4	Moderate	Codominant trunks at base; one sided N.; low branching N.
86	Coast live oak	6	No	3	Moderate	Suppressed; one sided N.
87	Blue gum	24	No	2	Low	Dead top; girdled by wires.
88	Blue gum	21,17,12,12	No	3	Low	Thin crown; girdled by wires.
89	Blue gum	48,20,19	No	3	Moderate	Multiple attachments at base; dead wood to 8"; spreading form.
90	Blue gum	40,22	No	2	Low	Codominant trunks at base; dead top; extensive dieback; trunk wounds.
91	Blue gum	19,19	No	3	Moderate	Codominant trunks at base; suppressed; lean W.
92	Blue gum	40	No	4	Moderate	Multiple attachments in upper crown; minor dieback.
93	Blue gum	10,9,8,7,7	No	4	Moderate	Stump sprout; multiple attachments at base.
94	Coast live oak	13	Yes	5	High	Codominant trunks at 5'; good young tree.
95	Blue gum	28,16,15	No	2	Low	Multiple attachments at base; extensive dieback.
96	Blue gum	48	No	2	Low	Multiple attachments at 18'; extensive dieback.
97	Blue gum	38	No	3	Moderate	Codominant trunks at 18'; dead top.
98	Blue gum	20,19,17,15	No	2	Low	Stump sprout; multiple attachments at base; dieback to 10".
99	Coast live oak	10	Yes	5	High	Small laterals at 5'; good young tree.
100	Coast live oak	9	No	4	High	Multiple attachments at 10'; a little asymmetric.
101	Coast live oak	10,9,8	Yes	4	Moderate	Multiple attachments at 4'; included bark; narrow attachments; borer damage on lower trunk.
102	Blue gum	45,24	No	3	Low	Multiple attachments at base; stem failure S.; poor structure.
103	Coast live oak	9	No	3	Moderate	Suppressed; leans S.
104	Coast live oak	11,9,7	Yes	3	Moderate	Multiple attachments at 4'; one sided S.; low laterals.
105	Coast live oak	17	Yes	4	Moderate	Multiple attachments at 8'; thin crown.
106	Coast live oak	7	No	3	Moderate	Suppressed; leans N.

# Tree Assessment

**Parkside Trails**  
Cupertino, California  
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TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
107	Coast live oak	28	Yes	3	Moderate	Multiple attachments at 7'; pruning wounds N.; fair structure.
108	Coast live oak	15	Yes	4	Moderate	Crowded; slight lean W.; good form.
109	Coast live oak	14,12	Yes	4	Moderate	Codominant trunks at base; one sided NW.
110	Coast live oak	16,10	Yes	4	Moderate	Codominant trunks at base; upright form; thin crown.
111	Coast live oak	9,7	No	3	Low	Codominant trunks at base; suppressed; asymmetric crown.
112	Coast live oak	14	Yes	3	Low	Crook at 8'; bark checking.
113	Coast live oak	17	Yes	3	Moderate	Codominant trunks at 10'; wide attachment; asymmetric crown.
114	Coast live oak	15,8	Yes	3	Moderate	Codominant trunks at 7'; one sided E.; low lateral.
115	Coast live oak	12,11	Yes	3	Moderate	Codominant trunks at base; asymmetric crown.
116	Coast live oak	12,9	Yes	3	Moderate	Codominant trunks at base; one sided E.
117	Coast live oak	16	Yes	3	Low	Codominant trunks at 8'; suppressed; crown bowed W. to horizontal.
118	Coast live oak	22,15,15,10	Yes	3	Moderate	Multiple attachments at 3'; poor attachments/included bark; thin crown.
119	Coast live oak	10	Yes	4	High	Crowded; upright form.
120	Coast live oak	10,9,7,6	Yes	3	Moderate	Multiple attachments at 1'; crowded; thin crown.
121	Coast live oak	17	Yes	4	Moderate	Codominant trunks at 6'; upright, narrow crown; thin crown.
122	Coast live oak	18	Yes	3	Moderate	Multiple attachments at 8'; one sided S.; low lateral.
123	Coast live oak	15,14,12,11	Yes	4	Moderate	Multiple attachments at base; most stems upright.
124	Coast live oak	8,7,4	No	3	Low	Multiple attachments at 2'; one sided S.
125	Coast live oak	13	Yes	5	High	Multiple attachments at 6'; upright; good young tree.
126	Monterey pine	6	No	5	High	Good young tree.
127	Coast live oak	9,8	No	3	Moderate	Codominant trunks at base; one sided & bowed SW.
128	Coast live oak	9	No	4	Moderate	Crowded; upright form.



# Tree Assessment

**Parkside Trails**  
Cupertino, California  
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April 2014



TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
129	Coast live oak	13,12	Yes	4	Moderate	Codominant trunks at base; included bark; good form.
130	Coast live oak	20	Yes	5	High	Codominant trunks at 8'; low branching; good form.
131	Coast live oak	13	Yes	3	Moderate	Crowded; one sided SW.
132	Coast live oak	6	No	5	High	Good young tree.
133	Coast live oak	11	Yes	3	Low	Suppressed; crown bowed E.
134	Coast live oak	20	Yes	4	High	Codominant trunks at 8'; included bark; low branching; good form.
135	Coast live oak	11	Yes	3	Low	Suppressed; crown bowed W. to horizontal.
136	Coast live oak	18,17	Yes	4	High	Codominant trunks at 2'; included bark; low branching; good form.
137	Coast live oak	12	Yes	5	High	Crowded; upright, narrow form.
138	Coast live oak	15,12	Yes	4	High	Codominant trunks at 3'; seam in attachment; good form.
139	Coast live oak	6	No	5	High	Good young tree.
140	Coast live oak	7	No	5	High	Good young tree.
141	Coast live oak	15,13,13	Yes	5	High	Multiple attachments at 3'; spreading form; low branching.
142	Coast live oak	7	No	5	High	Good young tree.
143	Coast live oak	18	Yes	4	High	Multiple attachments at 6'; thin upper canopy; spreading form; low branching.
144	Coast live oak	16,14,9	Yes	4	Moderate	Multiple attachments at 1'; 8" stem extends W. as low lateral; low branching.
145	Coast live oak	9	No	4	High	Crowded; slight lean NE.
146	Coast live oak	6,5	No	3	Moderate	Crowded; leans NE.
147	Coast live oak	10,6	Yes	3	Moderate	Suppressed form; one sided NE.
148	Coast live oak	10,6	Yes	3	Low	Suppressed form; poor form and structure.
149	Coast live oak	10	Yes	4	High	Crowded; small crown.
150	Coast live oak	6	No	3	Low	Suppressed form; multiple crooks.
151	Coast live oak	13	Yes	4	High	Multiple attachments at 7'; slight sweeps in trunk.
152	Coast live oak	10,10	Yes	3	Moderate	Codominant trunks at base; N. stem w/ crook at base

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TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
153	Coast live oak	6	No	4	Moderate	Crowded; narrow crown.
154	Coast live oak	16,16	Yes	4	Moderate	Codominant trunks at base; included bark; upright form.
155	Coast live oak	14	Yes	3	Low	Suppressed form; crown extends E. to horizontal.
156	Coast live oak	6,4	No	4	Moderate	One sided SE.
157	Coast live oak	7	No	4	Moderate	Crowded; one sided E.
158	Coast live oak	8,7,7	Yes	5	High	Multiple attachments at 1'; good young tree; low branching.
159	Coast live oak	12,11,8	Yes	4	Moderate	Codominant trunks at 2'; one stem upright; one stem low W.
160	Blue gum	48	No	4	Moderate	Multiple attachments at 15'; upright form; thinning crown.
161	Coast live oak	11	Yes	4	Moderate	Codominant trunks at 6'; slight lean and weight E.
162	Blue gum	50	No	4	Moderate	Low lateral W.; dieback to 6".
163	Blue gum	45	No	4	Moderate	Multiple attachments at 5'; stems grew together; dead wood to 8".
164	Coast live oak	6,3,3	No	4	High	Multiple attachments at base; branches to ground; crooks.
165	Calif. black walnut	11,7,4	No	2	Low	Lost top; trunk decay; poor form.
166	Coast live oak	15	Yes	4	High	Codominant trunks at 5'; seam in attachment.
167	Coast live oak	6,4	No	4	High	Codominant trunks at base; narrow attachment.
168	Calif. black walnut	13,12,11,9	No	2	Low	Multiple attachments at 4'; trunk decay; poor form.
169	Coast live oak	7	No	4	High	Codominant trunks at 4'; one sided NW.
170	Coast live oak	11	Yes	5	High	Upright form; slight sweep in trunk.
171	Coast live oak	7	No	4	High	Trunk sweeps S. to 5'; one sided S.
172	Coast live oak	11,6	Yes	5	High	Codominant trunks at 1'; good form.
173	Calif. black walnut	11,9,6,6	No	3	Low	Multiple attachments at 4'; trunk decay.
174	Calif. black walnut	10,10,8,8,7	No	3	Low	Multiple attachments at base; several stems decayed.
175	Coast live oak	12,9,9,7,6,5	Yes	5	High	Street tree; multiple attachments at base; good form.
176	Coast live oak	7,6	No	5	High	Codominant trunks at base; good form.
177	Calif. black walnut	6,5,5,4	No	2	Low	Multiple attachments at base; trunk decay.

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TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
178	Coast live oak	13,12	Yes	4	Moderate	Codominant trunks at 1'; included bark; good form.
179	Calif. black walnut	6,5,5,5	No	2	Low	Multiple attachments at base; trunk decay.
180	Coast live oak	12	Yes	4	High	Codominant trunks at 7'; seam in attachment; good form.
181	Calif. black walnut	7,6,5,5	No	1	Low	Multiple attachments at 3'; extensive trunk decay.
182	Coast live oak	6	No	4	High	Good young tree; one sided S.
183	Calif. black walnut	9	No	2	Low	One stem remains alive; trunk decay.
184	Calif. black walnut	7,6,5,4,4,4	No	3	Low	Multiple attachments at base; trunk decay.
185	Blue gum	48	No	3	Low	Off-site; large trunk wound from ground to 15' S.; trunk decay.
186	Coast live oak	7	No	4	Moderate	Suppressed; fair form and structure.
187	Coast live oak	12,5	Yes	3	Moderate	Codominant trunks at base; suppressed form; leans S.
188	Coast live oak	7	No	4	High	Good young tree; fill at base.
189	Coast live oak	12,11,9	Yes	3	Low	Codominant trunks at base; history of stem failure.
190	Coast live oak	6,4	No	4	Moderate	Codominant trunks at 1'; suppressed; asymmetric crown.
191	Coast live oak	10	Yes	4	High	Codominant trunks at 8'; narrow attachment.
192	Coast live oak	11	Yes	5	High	Upright form; good tree.
193	Coast live oak	6,4	No	3	Moderate	Codominant trunks at 1'; suppressed; small crown.
194	Coast live oak	9,7	No	4	Moderate	Codominant trunks at 1'; seam in attachment.
195	Coast live oak	7	No	3	Moderate	Suppressed; one sided and bowed S.
196	Coast live oak	8	No	5	High	Good young tree; narrow crown.
197	Coast live oak	7,6	No	4	High	Codominant trunks at base; good young tree.
198	Coast live oak	7,6	No	4	Moderate	Multiple attachments at 7'; weak attachments; spreading form.
199	Coast live oak	7	No	4	High	Good young tree; narrow crown.
200	Coast live oak	20	Yes	1	Low	Codominant trunks at 8'; trunk split from 3' to 8'.
201	Coast live oak	6	No	3	Low	Suppressed; crown bowed S. to horizontal.
202	Blue gum	55	No	4	Moderate	Multiple attachments at 8'; trunk wound W. where stem failed.

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TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
203	Arroyo willow	12	No	1	Low	All but dead.
204	Coast live oak	15,13,6	Yes	4	High	Codominant trunks at base; embedded barbed wire.
205	Coast live oak	6	No	5	High	Good young tree; narrow crown.
206	Coast live oak	10	Yes	5	High	Multiple attachments at 6'; one sided N.
207	Coast live oak	8,5	No	4	Moderate	Low branched; one sided S.
208	Coast live oak	9	No	3	Low	Suppressed form; crook at 8'.
209	Coast live oak	14	Yes	5	High	Good form and structure; high crown.
210	Big leaf maple	6,3	No	2	Low	Suppressed; one sided S.; extensive dieback.
211	Coast live oak	7,6	No	4	High	Codominant trunks at base; seam in attachment.
212	Coast live oak	17	Yes	5	High	Multiple attachments at 7'; good form; one sided E.
213	Coast live oak	15,7	Yes	3	Moderate	Suppressed; included bark; one sided S.
214	Coast live oak	10	Yes	4	High	Upright form; narrow crown.
215	Coast live oak	8	No	3	Low	Suppressed form; crook at 6'.
216	Coast live oak	10	Yes	4	High	Codominant trunks at 7'; seam in attachment; one side E.
217	Coast live oak	6	No	3	Moderate	Suppressed form; one sided N.
218	Coast live oak	7	No	4	High	Upright form; narrow crown.
219	Coast live oak	8,7	No	3	Low	Suppressed form; crown bowed SE.
220	Coast live oak	9,7	No	4	High	Codominant trunks at 1'; seam in attachment; upright form.
221	Coast live oak	10	Yes	3	Low	Suppressed form; narrow crown; poor branch structure.
222	Coast live oak	6	No	3	Moderate	Slight crook at 7'; narrow crown.
223	Coast live oak	16	Yes	5	High	Multiple attachments at 10'; good form; high lateral E.
224	Coast live oak	9	No	3	Moderate	Suppressed form; leaning and one sided E.
225	Coast live oak	8	No	4	High	Codominant trunks at 8'; narrow crown; upright form.
226	Coast live oak	12	Yes	5	High	Codominant trunks at 12'; slight lean E.; at top of slope.
227	Coast live oak	9	No	4	High	Codominant trunks at 6'; included bark; at top of slope.
228	Coast live oak	10	Yes	3	Moderate	Crook at base; at top of slope.
229	Coast live oak	10	Yes	5	High	Good form and structure ; upright form.

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TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
230	Valley oak	7	No	5	High	Upright form.
231	Fremont cottonwood	7	No	2	Low	Codominant trunks at base; one stem dead.
232	Coast live oak	19	Yes	4	Moderate	Multiple attachments at 12'; slight lean and one sided W.; branch wound.
233	Coast live oak	12,11,10,9,9	Yes	4	High	Multiple attachments at base; spreading form; E. stem low to ground.
234	Coast live oak	11,10	Yes	5	High	Codominant trunks at 12'; 10" stem leans E.
235	Coast live oak	6	No	3	Moderate	Suppressed; crown bowed SE.
236	Coast live oak	7	No	4	Moderate	One sided W.
237	Coast live oak	6	No	3	Moderate	Suppressed; crook at 2' & 3'.
238	Coast live oak	7	No	5	High	Good young tree; high crown.
239	Coast live oak	18	Yes	5	High	Good form and structure; low branching.
240	Fremont cottonwood	17	No	1	Low	Little live material remains; lost top.
241	Coast live oak	22,8	Yes	3	Moderate	Multiple attachments at 5'; poor structure; low branching S.
242	Coast live oak	13,10,9,7,5	Yes	3	Low	Multiple attachments at base; suppressed form.
243	Coast live oak	17	Yes	5	High	Multiple attachments at 10'; good form and structure; low branching.
244	Big leaf maple	14	Yes	2	Low	Trunk wounds & decay; extensive dieback.
245	Coast live oak	6	No	5	High	Good young tree; high crown.
246	Coast live oak	11	Yes	4	High	Codominant trunks at 4'; narrow attachment.
247	Coast live oak	8	No	5	High	Codominant trunks at 6'; narrow crown.
248	Valley oak	9,6	No	5	High	Codominant trunks at base; 9" stem upright; 6" stem extends E.
249	Coast live oak	9	No	5	High	Codominant trunks at 6'; good form; growing on cut bank.
250	Coast live oak	6	No	5	High	Good young tree; growing at edge of old road.
251	Coast live oak	14	Yes	5	High	Multiple attachments at 4'; good form and structure; low branching.

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TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
252	Coast live oak	6	No	5	High	Multiple attachments at 4'; good young tree.
253	Coast live oak	17	Yes	5	High	Multiple attachments at 7'; good form and structure; low branching SW.
254	Coast live oak	17,15	Yes	4	Moderate	Codominant trunks at base; one sided N.; twig dieback; growing at base of slope.
255	Coast live oak	10,8	Yes	3	Moderate	Suppressed form; one sided W.; growing on steep slope.
256	Coast live oak	18	Yes	4	Moderate	Good form; growing on steep slope; soil eroded/roots exposed.
257	Coast live oak	24	Yes	4	Moderate	Codominant trunks at 10'; one sided W.; twig dieback.
258	Coast live oak	26	Yes	4	Moderate	Codominant trunks at 15'; leans E.; twig dieback.
259	Coast live oak	56,36	Yes	4	Moderate	Codominant trunks at 2'; 56" stem has lots of weight S. over adjacent Rd.; 36" stem upright; twig dieback.
260	Coast live oak	14	Yes	4	High	Slight crooks; one side N.
261	Almond	10,5	No	2	Low	Heavy lean N.; growing on steep slope.
262	Calif. bay	7	No	3	Low	Growing on steep slope; leans W.; narrow crown.
263	Calif. bay	14,9,3	Yes	3	Moderate	Growing on steep slope; leans W.
264	Coast live oak	20	Yes	2	Low	Growing on steep slope; dieback; trunk wound.
265	Coast live oak	14	Yes	4	Moderate	One sided E.
266	Coast live oak	19	Yes	4	High	High crown; good form.
267	Coast live oak	11	Yes	3	Low	Suppressed; small crown.
268	Coast live oak	13,13	Yes	3	Moderate	Codominant trunks at 3; one stem upright; one stem bowed W.
269	Coast live oak	7	No	3	Low	Suppressed; leans W.; small crown.
270	Coast live oak	6	No	2	Low	Suppressed; crown bowed W. to horizontal.
271	Coast live oak	7,7	No	2	Low	Suppressed; stems twisted around each other; crown bowed W. to horizontal.
272	Coast live oak	10	Yes	3	Low	Suppressed; poor form and structure.
273	Valley oak	20	Yes	4	Moderate	High crown; one sided W.

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TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
274	Coast live oak	13	Yes	3	Low	Suppressed; asymmetric crown.
275	Coast live oak	12	Yes	3	Low	Suppressed; asymmetric crown.
276	Coast live oak	14	Yes	2	Low	Suppressed; small crown one sided E.
277	Coast live oak	7	No	2	Low	Suppressed; small crown bowed E.
278	Coast live oak	7	No	1	Low	Little live material remains.
279	Valley oak	10	Yes	3	Low	Suppressed; small crown bowed E.
280	Coast live oak	14	Yes	3	Moderate	One sided E.
281	Coast live oak	8	No	3	Low	Suppressed; crown bowed W. to horizontal.
282	Coast live oak	10	Yes	2	Low	High, small crown
283	Coast live oak	7	No	2	Low	Small crown; stubbed at PL.
284	Coast live oak	7	No	2	Low	Suppressed; leans E.
285	Coast live oak	29	Yes	4	Moderate	Multiple attachments at 10'; spreading form; laterals S. & W.
286	Coast live oak	42	Yes	3	Moderate	Codominant trunks at 12'; one stem is heavy laterals W.; large trunk wound from failure of 24" stem S.
287	Coast live oak	7	No	5	High	Good young tree.
288	Coast live oak	6	No	4	High	Slight lean N.; good young tree.
289	Coast live oak	15	Yes	4	Moderate	Growing on eroded slope; roots exposed S.; good form.
290	Coast live oak	13	Yes	3	Low	Growing on eroded slope; roots exposed S.; crook at base & 8'.
291	Coast live oak	6	No	4	High	Upright, narrow form; good young tree.
292	Coast live oak	18, 7	Yes	3	Moderate	Codominant trunks at 2'; 18" stem leans E.
293	Coast live oak	16, 16	Yes	3	Moderate	Codominant trunks at 2'; good form but bad included bark.
294	Coast live oak	7	No	3	Low	Suppressed; leans SW.
295	Coast live oak	15, 14	Yes	4	Moderate	Codominant trunks at 3'; good form; included bark.
296	Coast live oak	14	Yes	4	Moderate	Codominant trunks at 8'; sweeps from base; included bark.



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TREE	SPECIES	SIZE	PROTECTED?	CONDITION	SUITABILITY	COMMENTS
No.		DIAMETER (in inches)		1=POOR 5=EXCELLENT	FOR PRESERVATION	
297	Coast live oak	13,13,13,6	Yes	4	High	Multiple attachments at 1'; good form; dead wood.
298	Coast live oak	7	No	2	Low	Suppressed; crown bowed NW.
299	Coast live oak	13,4	Yes	3	Moderate	Codominant trunks at 10'; fair form & structure.
300	Coast live oak	14	Yes	4	Moderate	Growing on eroded slope; roots exposed S.; good form.
301	Coast live oak	13	Yes	4	Moderate	Corrected lean S.; good form.
302	Coast live oak	10,7,3	Yes	3	Moderate	Multiple attachments at 2'; crowded & one sided W.
303	Calif. bay	25,16,15,15, 14,13	Yes	3	Low	Multiple attachments at base'; decay in attachments; multiple stem failures.
304	Calif. bay	14,13	Yes	4	Moderate	Codominant trunks at base; leans N.
305	Calif. bay	11	Yes	3	Moderate	Growing on steep slope; crowded & one sided SW.
306	Blue oak	10,9	Yes	3	Moderate	Codominant trunks at 3'; crown bowed S.
307	Coast live oak	12	Yes	3	Moderate	Codominant trunks at 5'; one sided E.
308	Blue gum	40,36,25	No	3	Moderate	Multiple attachments at base; thin crown.
309	Coast live oak	6,3,2	No	4	Moderate	Multiple attachments at base; one sided S.
310	Calif. black walnut	7,4,3,3,2	No	3	Low	Multiple attachments at base; dieback.
311	Coast live oak	11,7,6	Yes	5	High	Codominant trunks at 3'; good form and structure.
312	Coast live oak	11,11	Yes	5	High	Codominant trunks at 3'; good form and structure.
313	Calif. black walnut	6,5,5,4,4	No	2	Low	Multiple attachments at base; extensive dieback & trunk decay.
314	Calif. black walnut	14,7	No	2	Low	Multiple attachments at 4'; extensive dieback & trunk decay.
315	Coast live oak	12	Yes	4	High	One side S.; good form and structure.
316	Calif. black walnut	6,5,5,4,4	No	3	Low	Multiple attachments at base; dieback; mistletoe.
317	Coast redwood	30,26	No	3	Moderate	Off-site, no tag; topped; extends 5' N. over fence.
318	Coast live oak	12	Yes	3	Moderate	Codominant trunks at 6'; thin canopy; slight lean S.
319	Coast live oak	12	Yes	3	Moderate	Thin canopy; slight lean S.



## RICARDO ROAD

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325 Ray Street  
Pleasanton, CA 94566  
Phone 925.484.0211  
Fax 925.484.0596  
[www.hortscience.com](http://www.hortscience.com)