

APPENDIX A

Oak Tree Report

OAK TREE REPORT

Proposed 4-Lot Subdivision Tentative Parcel Map 80287

Between Triumph Ave. & Tannahill Ave.
Santa Clarita, Ca 91387

for

Rexhall Company

45640 23rd Street West
Lancaster, Ca 93536-7219

by

TREES, etc.

[a division of RDI & Associates, Inc.]

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RDI Project No.: 1008-1-18

Original Date: September 16, 2018

1st Revision Date: December 24, 2018

2nd Revision Date: January 15, 2021

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Proposed 4-Parcel Sub-Division

RDI Project No. 1008-1-18

This proposed 19.87 acre residential project, Tentative Tract Map 80287 (APN 2841-018-035), is bordered by the "private streets" Tannahill Ave. to the east & Triumph Ave. to the west; and it is within the Sand Canyon area of Santa Clarita, Ca.

This report is prepared in accordance with Ordinances 89-10 & 05-4 of the Santa Clarita Municipal Code relating to the "Oak Tree Preservation & Protection Guidelines". The City lies in the Santa Clarita Valley, the beauty & natural setting of which is greatly enhanced by the presence of large numbers of majestic Oak trees. These indigenous Oaks are recognized for their significant historical, aesthetic & environmental value. They are indicator species for the natural communities, in which they exist, supporting a broad spectrum of other native plant & animal species. As one of the most picturesque trees in the Southern California area, they lend beauty & charm to the natural & man-made landscape, enhance the value of property & preserve the character of the communities in which they exist.

Included within this Report is the following:

1. This text;

• Field Inspection Dates	Pages 1 & 2
• Field Observations	Page 2
• Plan Review	Pages 3 to 12
• Specific & Overall Recommendations	Pages 12 & 13
• Tree Care & Maintenance	Pages 13 to 16
• Notice of Disclaimer & Signature	Page 16
2. Eighteen [18] **TREE EVALUATIONS** (on & off property trees) sheets;
3. Seven [7] **TREE CANOPY MEASUREMENTS** (on-property trees) sheets;
4. Six [6] **COMPATIBLE NATIVE PLANTS w/in or AROUND OAK TREE DRIPLINES (CNPS)** sheets;
5. And, one [1] **TREE LOCATION MAP** (derived from the '60 scale' "Tentative Parcel Map", as produced by CRC Enterprises, "stamp" dated Sept. 24, 2020). It should be noted, that the Oak trees on the enclosed **TREE LOCATION MAP** were field surveyed by CRC Enterprises in April 18, 2018.

Field Inspection Dates

1. Our field review was made on the following dates in 2018 & 2020:

2018 =

March 16 (#1 to #31);

March 20 (#81 to #90, #171, #172);

April 4 (#132 to #170); and,

March 19 (#32 to #80);

April 3 (#91 to #130);

April 10 (#173, #174).

It should be noted that there is **no** tree #131!

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2020 =

Oct. 29 (review dead & dying Oaks);

Nov. 10 (re-tag Oaks).

2. As part of our field review, tree drip lines were measured on the following dates in 2018:

March 20 (#171 & #172),

April 10 (#1 to #75),

April 17 (#76 to #130, #132 to #170, #173, #174).

Field Observations

1. The trees are inventoried as to their specie, health & aesthetic considerations. This inventory was reviewed in accordance with presently accepted industry procedures, which are of macro-visual observations only. No extensive microbiological, soil-root excavations, upper crown examination, nor internal tree investigations were conducted.
2. The inventoried Protected trees had their trunks & driplines (canopy spreads) measured [the trunk(s) are measured in "diameter" inches, while the dripline(s) are measured in feet at eight [8] compass directions (north, northeast, east, southeast, south, southwest, west & northwest). If one or more sides is measured as "0" feet, this means that there is no canopy at that/those location(s)]. It should be noted that these dimensions might change in the next growing season(s) following our initial field measurements.
3. The "Protected Zone" is defined as the area at least 5' beyond the dripline or 15' from the trunk, or whichever distance is greater, when viewed from above.
4. In Santa Clarita a "Heritage Oak tree" is any live Oak tree that has one trunk that is at least 34.4" in diameter or more; or, at least two of the trunks (on a multiple-trunk tree) are each 22.9" in diameter or more. In this report we covered fourteen [14] Heritage Oak trees, they are:

#5 (23" & 25" diameter trunks),	#9 (24.6" & 25.7" diameter trunks),
#11 (25" & 27.4" diameter trunks),	#17 (5", 6", 7", 18", 20", 23" & 24" diameter trunks),
#60 (34.7" diameter trunk),	#61 (46.55" diameter trunk),
#62 (40.9" diameter trunk),	#65 (37" diameter trunk),
#95 (44.2" diameter trunk),	#97 (35.7" diameter trunk),
#113 (39" diameter trunk),	#115 (36.6 diameter trunk),
#135 (6", 15", 23", 28" & 32" diameter trunks),	#157 (43.1" diameter trunk).
5. This project's on-property trees were tagged with 1¼" diameter metal tags with numbers stamped into the. The report's inventoried off-property trees were not tagged, but are only map numbered.

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Plan Review

1. On the dates of our field review we found one-hundred seventy-three [173] Coast Live Oak (*Quercus agrifolia*) trees on this 19.97 acre property, which is proposed to be divided into four [4] parcels. Our tag numbers that were used are: #1 to #130 and #132 to #174 (tag #131 was not used!).
- 2a. There are currently eighty-seven [87] Oaks are located within Parcel 1 (4.98 acres), they are: 1-14, 59, 61-74, 86-107, 118-122, 124-130, 132-143, 159-170.
- 2b. There are currently sixty-five [65] Oaks are located within Parcel 2 (4.99 acres), they are: 15-23, 25-28, 30-34, 36, 39-58, 60, 108-117, 144-158.
- 2c. There are **NO** Oaks found on Parcel 3 (5.00 acres).
- 2d. There are currently fourteen [14] Oaks are located within Parcel 4 (4.90 acres), they are: 76-85, 171-174.
- 3a. Pursuant to the enclosed **TREE LOCATION MAP**, the following is proposed to this project's on-property Oaks:

Parcel Tree No(s). Proposed Disposition(s)

- | | | |
|---|-------|--|
| 1 | ----- | It should be noted that there may be a property boundary fences and/or walls constructed within this Parcel's Oak tree driplines and/or Protected Zones at a later date, most likely by the future property owners of this lot, between this Parcel & Parcels 2 & 4, the properties to the north, and along Tannahill Ave. |
| 1 | | SAVE = this one [1] Oak shall have a 26' wide "Proposed All Weather Access Road" installed within its drip line, no closer than 10' from its trunk. It should be noted that there may be a property boundary fences and/or walls constructed within this Oak's tree drip line at a later date, most likely by the future property owners of this lot, along Tannahill Ave. Some live wood pruning will be required for construction clearances. |
| 2 | | SAVE = this one [1] Oak's Protected Zone shall be encroached upon by this Parcel's proposed septic line, no closer than 4' from its drip line. Live wood pruning is not required to occur to this Oak. |
| 3 | | SAVES = this one [1] Oak <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required to this Oak. |

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Parcel Tree No(s) Proposed Disposition(s)

- | | | |
|---|----------|---|
| 1 | 4 | SAVE = this one [1] Oak may have a property boundary fence and/or wall constructed within its drip line and/or Protected Zone at a later date, by the future property owners of this lot. Some live wood pruning may be required to occur to this Oak. |
| | 5 to 8 | SAVES = these four [4] Oaks <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required to occur to these Oaks. It should be noted that Oak #5 is a Heritage Oak. |
| | 9 | SAVE = this one [1] Heritage Oak's Protected Zone shall be encroached upon by this Parcel's proposed septic line, no closer than 4' from its drip line. Live wood pruning is not required to occur to this Oak. |
| | 10 to 13 | SAVES = these four [4] Oaks <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required to occur to this tree. It should be noted that Oak #11 is a Heritage Oak. |
| | 14 | SAVE = this one [1] Oak <u>shall not be impacted</u> from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within this Oak's drip line at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to occur to this Oak for a future fence and/or wall. |
| | 59 | SAVE = this one [1] Oak <u>shall not be impacted</u> from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within this Oak's drip line at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to occur to this Oak for a future fence and/or wall. |
| | 61 to 74 | SAVES = these fourteen [14] Oaks <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required to these Oaks. It should also be noted that Oaks #61, #62 & #65 are Heritage Oaks. |

Oak #72 was allowed to be pruned as noted by Robert Sartain (City Arborist) from the city of Santa Clarita approved permit (Exemption No. 20-097 // Oct. 27, 2020)).

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<u>Parcel</u>	<u>Tree No(s)</u>	<u>Proposed Disposition(s)</u>
---------------	-------------------	--------------------------------

- | | | |
|---|------------------|--|
| 1 | 61 to 74 (cont.) | Oak #74 had its 10½" diameter trunk removed in 2020 as trunk had died sometime between 2018 & 2020 (it should be noted that Robert Sartain (City Arborist) from the city of Santa Clarita approved removal of this Oak trunk (Exemption No. 20-097 // Oct. 27, 2020)). |
| | 75 | This one [1] Oak was removed in 2020 as it died sometime between 2018 & 2020. It should be noted that Robert Sartain (City Arborist) from the city of Santa Clarita approved removal of this Oak (Exemption No. 20-097 // Oct. 27, 2020). |
| | 86 & 87 | SAVES = these two [2] Oaks <u>shall not be impacted</u> from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within this Oak's drip line at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to these Oaks for a future fence and/or wall. |
| | 88 to 93 | SAVES = these six [6] Oaks <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required to occur to these Oaks. |
| | 94 | This one [1] Oak was removed in 2020 as it died sometime between 2018 & 2020. |
| | 95 to 107 | SAVES = these thirteen [13] Oaks <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required to occur to these Oaks. It should be noted that Oaks #95 & #97 are Heritage Oaks. |
| | 118 to 122 | SAVES = these five [5] Oaks <u>shall not be impacted</u> from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within these Oak's drip lines at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to these Oaks for a future fence and/or wall. |
| | 123 | This one [1] Oak was removed in 2020 as it died sometime between 2018 & 2020. It should be noted that Robert Sartain (City Arborist) from the city of Santa Clarita approved removal of this Oak (Exemption No. 20-097 // Oct. 27, 2020). |
| | 124 to 130 | SAVES = these seven [7] Oaks <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required to these Oaks. |

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131

This tag number was not used!

Parcel Tree No(s). Proposed Disposition(s)

- | | | |
|---|------------|---|
| 1 | 132 to 140 | SAVES = these nine [9] Oaks <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required to occur to these Oaks. It should be noted that Oak #135 is a Heritage Oak. |
| | 141 to 143 | SAVES = these three [3] Oaks <u>shall not be impacted</u> from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within these Oak's drip lines at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to these Oaks for a future fence and/or wall. |
| | 159 | SAVE = this one [1] Oak <u>shall not be impacted</u> from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within this Oak's drip line at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to occur to this Oak for a future fence and/or wall. |
| | 160 to 170 | SAVES = these eleven [11] Oaks <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required. |
| 2 | ----- | It should be noted that there may be a property boundary fences and/or walls constructed within this Parcel's Oak tree driplines and/or Protected Zones at a later date, by the future property owners of this lot, between this Parcel & Parcels 1 & 3, the property to the south, and along Tannahill Ave. |
| | 15 | SAVE = this one [1] Oak <u>shall not be impacted</u> from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within this Oak's drip line at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to occur to this Oak for a future fence and/or wall. |
| | 16 | SAVE = this one [1] Oak shall have a 26' wide "Proposed All Weather Access Road" installed within its drip line, no closer than 2' from its trunk. It should be noted that there may be a property boundary fences and/or walls constructed within this Oak's tree drip line at a later date, most likely by the future property owners of this lot, along Tannahill Ave. Some live wood pruning will be required for construction clearances. |

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Parcel Tree No(s). Proposed Disposition(s)

- | | | |
|---|----------|--|
| 2 | 17 | SAVE = this one [1] Oak <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required to occur to this Oak. It should be noted this Oak is a Heritage Oak. |
| | 18 | SAVE = this one [1] Oak shall have a 26' wide "Proposed All Weather Access Road" installed within its drip line, no closer than 5' from its trunk. It should be noted that there may be a property boundary fences and/or walls constructed within this Oak's tree drip line at a later date, most likely by the future property owners of this lot, along Tannahill Ave. Some live wood pruning will be required for construction clearances. |
| | 19 | SAVE = this one [1] Oak shall have a 26' wide "Proposed All Weather Access Road" installed within its drip line, no closer than 10' from its trunk. It should be noted that there may be a property boundary fences and/or walls constructed within this Oak's tree drip line at a later date, most likely by the future property owners of this lot, along Tannahill Ave. Some live wood pruning will be required for construction clearances. |
| | 20 to 22 | SAVES = these 3 Oaks <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required. |
| | 23 | SAVE = this one [1] Oak shall have a 26' wide "Proposed All Weather Access Road" installed within its drip line, no closer than 3' from its trunk. It should be noted that there may be a property boundary fences and/or walls constructed within this Oak's tree drip line at a later date, most likely by the future property owners of this lot, along Tannahill Ave. Some live wood pruning will be required for construction clearances. |
| | 24 | This one [1] Oak was removed in 2020 as it died sometime between 2018 & 2020. It should be noted that Robert Sartain (City Arborist) from the city of Santa Clarita approved removal of this Oak (Exemption No. 20-097 // Oct. 27, 2020). |
| | 25 | SAVE = this one [1] Oak shall have its Protected Zone encroached upon, no closer than 4' from its drip line for the construction of the proposed buildable lot for this parcel. Live wood pruning is not required to occur to this Oak. |

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<u>Parcel</u>	<u>Tree No(s).</u>	<u>Proposed Disposition(s)</u>
2	26	SAVE = this one [1] Oak <u>shall not be impacted</u> from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within this Oak's drip line at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to occur to this Oak for a future fence and/or wall.
	27 & 28	SAVES = these two [2] Oaks <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required.
	29	This one [1] Oak was removed in 2020 as it died sometime between 2017 & 2018. It should be noted that Robert Sartain (City Arborist) from the city of Santa Clarita approved removal of this Oak (Exemption No. 20-097 // Oct. 27, 2020).
	30 & 31	SAVES = these two [2] Oaks <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required.
	32 to 34	SAVES = these three [3] Oaks <u>shall not be impacted</u> from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within these Oak's drip lines at a later date, most likely by the future property owners of this lot. Live wood pruning may be required for a future fence and/or wall.
	35	This one [1] Oak was removed in 2020 as it died sometime between 2018 & 2020. It should be noted that Robert Sartain (City Arborist) from the city of Santa Clarita approved removal of this Oak (Exemption No. 20-097 // Oct. 27, 2020).
	36	SAVE = this one [1] Oak <u>shall not be impacted</u> from this project's proposed construction. Live wood pruning is not required.
	37 & 38	This two [2] Oaks were removed in 2020 as they died sometime between 2018 & 2020. It should be noted that Robert Sartain (City Arborist) from the city of Santa Clarita approved removal of these Oaks (Exemption No. 20-097 // Oct. 27, 2020).

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39 to 42 **SAVES** = these four [4] Oaks **shall not be impacted** from this project's proposed construction. Live wood pruning is not required.

Parcel Tree No(s). Proposed Disposition(s)

2 43 to 45 **SAVES** = these three [3] Oaks **shall not be impacted** from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within these Oak's drip lines at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to these Oaks for a future fence and/or wall.

46 to 51 **SAVES** = these six [6] Oaks **shall not be impacted** from this project's proposed construction. Live wood pruning is not required.

52 **SAVE** = this one [1] Oak **shall not be impacted** from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within this Oak's drip line at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to occur to this Oak for a future fence and/or wall.

53 to 58 **SAVES** = these six [6] Oaks **shall not be impacted** from this project's proposed construction. Live wood pruning is not required.

60 & 108 **SAVES** = these two [2] Oaks **shall not be impacted** from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within these Oak's drip lines at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to occur to these Oaks for a future fence and/or wall. It should be noted that Oak #60 is a Heritage Oak.

109 to 115 **SAVES** = these seven [7] Oaks **shall not be impacted** from this project's proposed construction. Live wood pruning is not required to occur to these Oaks. It should be noted that Oaks #113 & #115 are Heritage Oaks.

116 **SAVE** = this one [1] Oak's Protected Zone shall be encroached upon by this Parcel's proposed septic line, no closer than 4' from its drip line. Live wood pruning is not required to occur to this Oak.

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117, 144-152 **SAVES** = these ten [10] Oaks **shall not be impacted** from this project's proposed construction. Live wood pruning is not required to occur to these Oaks.

153 **Previously Removed** = this "very small" one [1] Oak was inadvertently removed by mistake, during some land clearing that was done at this site. At the time of our original inventory this Oak was 2¼" in diameter.

Parcel Tree No(s). Proposed Disposition(s)

2 154-158 **SAVES** = these five [5] Oaks **shall not be impacted** from this project's proposed construction. Live wood pruning is not required to occur to these Oaks. It should be noted that Oak #157 is a Heritage Oak.

3 ----- There are **NO** Oak trees on this parcel. It should be noted that on the map there is a tree canopy symbol (made up of a non-protected California Pepper & a non-protected Elderberry) located near the southwest corner of this parcel.

4 ----- It should be noted that there may be property boundary fences and/or walls constructed within this Parcel's Oak tree driplines and/or Protected Zones at a later date, by the future property owners of this lot, between this Parcel & Parcel 1, the property to the north.

76 This one [1] Oak was **removed** in 2020 as it died sometime between 2018 & 2020. It should be noted that Robert Sartain (City Arborist) from the city of Santa Clarita approved removal of this Oak (Exemption No. 20-097 // Oct. 27, 2020).

77 & 78 **SAVES** = these two [2] Oaks **shall not be impacted** from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within these Oak's drip lines at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to occur for a future fence and/or wall.

79 This one [1] Oak was **removed** in 2020 as it died sometime between 2018 & 2020. It should be noted that Robert Sartain (City Arborist) from the city of Santa Clarita approved removal of this Oak (Exemption No. 20-097 // Oct. 27, 2020).

80 **SAVE** = this one [1] Oak **shall not be impacted** from this project's proposed construction. Live wood pruning is not required.

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81 to 85 **SAVES** = these five [5] Oaks **shall not be impacted** from this project's proposed construction. It should be noted that there may be a property boundary fence and/or wall constructed within these Oak's drip lines at a later date, most likely by the future property owners of this lot. Live wood pruning may be required to occur for a future fence and/or wall.

Parcel Tree No(s). Proposed Disposition(s)

4 171 to 174 **SAVES** = these four [4] Oaks **shall not be impacted** from any of this project's proposed construction. Oak #172 had its 37.7" diameter trunk removed in 2020 as trunk had died sometime between 2018 & 2020. Live wood pruning is not required to occur to these Oaks.

In summary, the following is proposed (in Parcel 1):

Total quantity of Oaks that were inventoried = 89

SAVES (with no encroachments) = 86 (in the future, some of these Oaks may be impacted by the new property owners)

SAVES (with dripline encroachments) = 1 (#1 = for the new construction of Tannahill Rd.)

SAVES (with Protected Zone encroachments) = 2 (#2 & #9)

Removals = 0

In summary, the following is proposed (in Parcel 2):

Total quantity of Oaks that were inventoried = 70

SAVES (with no encroachments) = 63 (in the future, some of these Oaks may be impacted by the new property owners)

SAVES (with dripline encroachments) = 4 (#16, #18, #19 & #22 = for the new construction of Tannahill Rd.)

SAVES (with Protected Zone encroachments) = 3 (#24, #25 & #116)

Removals = 0

In summary, the following is proposed (in Parcel 3):

Total quantity of Oaks that were inventoried = 0

In summary, the following is proposed (in Parcel 4):

Total quantity of Oaks that were inventoried = 14

SAVES (with no encroachments) = 14 (in the future, some of these Oaks may be impacted by the new property owners)

Removals = 0

3b. Pursuant to the enclosed **TREE LOCATION MAP**, the following is proposed to this project's off-property Oak trees:

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Tree No(s). Proposed Disposition(s)

- OP-1 **SAVE** = the 26' wide "Proposed All Weather Access Road" shall be installed within this Oak's drip line, no closer than 6' from its trunk. Some "live wood" pruning may be required for roadway clearance. This tree is located off-property, northeast of Oak #1 (Parcel 1).
- OP-2 **SAVE** = it should be noted that there may be property boundary fence or wall constructed within this Oak tree dripline at a later date (from Parcel 2), by the future property owners of this lot. Some "live wood" pruning may be done at this time. This tree is located off-property, southeast of Oak #25 (Parcel 2).
- OP-3 **SAVE** = it should be noted that there may be property boundary fence or wall constructed within this Oak tree dripline at a later date (from Parcel 1), by the future property owners of this lot. Some "live wood" pruning may be done at this time. This tree is located off-property, west of Oak #92 (Parcel 1).

In summary, the following is proposed:

Total quantity of Oaks that were inventoried =	3
SAVES (with dripline encroachments) =	1 (OP-1)
SAVES (may be dripline encroachments) =	2 (OP-2 & OP-3)
Removals =	0

Specific & Overall Recommendations

1. This Consulting Arborist should be on-site during all excavations within the driplines and/or Protected Zones of the protected trees.
2. The 'saved' Oak trees within 50' from any proposed construction shall be fenced with a temporary chainlink (or similar) protective fence at their driplines or Protected Zones (or at the location of approved encroachment) prior to the start of any on-site grading/construction. A minimum of four [4] warning signs (minimum size of 2' x 2'), per fenced area or at 50' intervals, shall read:

WARNING (lettering to be red & minimum 4" tall)

THIS FENCE SHALL NOT BE REMOVED or RELOCATED WITHOUT WRITTEN AUTHORIZATION FROM THE CITY of SANTA CLARITA'S PLANNING & COMMUNITY DEVELOPMENT DEPARTMENT (lettering to be black & minimum 2" tall)

These signs shall be posted on all protective fencing. This fencing shall remain intact until this Consulting Arborist and/or the city of Santa Clarita's Planning & Community Development Department (CSCP&CDD) allows it to be removed or relocated.

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3. All footing excavations within the driplines and/or Protected Zones shall be dug by hand work only, to a maximum depth of 5' (or to a depth that CAL-OSHA, OSHA or local codes allow). If any roots are encountered, they shall be cleanly excised (& not sealed). Any excavation below the "approved" depth may be done with acceptable machinery.
4. No 'over-excavation' outside of any cut and/or fill slopes ("tops" or "toes") for the proposed construction shall occur within the dripline and/or Protected Zone of any on-site Oak trees, unless required by the project's structural engineer, and approved by the City of Santa Clarita.
5. Soil compaction within the dripline and/or root zone shall be minimized. No equipment, spoils or debris shall be stored within the dripline and/or Protected Zone of the saved tree(s). No dumping of liquids or solvents, cleaning fluids, paints, concrete washout or other harmful substances within the driplines and/or Protected Zones shall be permitted.
6. All work, to this project's native Oak trees, shall be in accordance with city of Santa Clarita 'Oak Tree Ordinance' and tree policies.
7. Prior to the completion of this project, **RDI & Associates, Inc. (dba TREES, etc.)** shall certify in a 'letter of compliance', that the 'Oak Tree Ordinance' and all concerned tree policies have been adhered to.
8. Copies of this report and the 'Oak Tree Ordinance' shall be maintained on site during all project construction.

Tree Care & Maintenance

1. No "new" landscape, irrigation lines, utility lines and/or grade changes shall be designed and/or installed within the dripline and/or Protected Zones of any on-site Oak trees, unless approved by the CSCP&CDD. If planting is necessary or the leaf litter is removed, the following is recommended:
 - A. Plant Material – only drought tolerant plantings should be used. All plantings should be compatible with the on-site native Oak trees.

If additional plants are desired around the Oak trees, then use "acceptable" natives & follow these guidelines:

1. Plant no closer than 10' from any tree trunk.
2. Plant 1-gallon specimens or smaller, as these plants will establish faster than larger containers.
3. Use only native backfill with no amendments.
4. Mulch with an insect/disease free material as needed (minimum) 2" thick, to cover the soil for better water retention, to assist in lessening compaction, and for supplying organic material.

OAK TREE REPORT

Proposed 4-Lot Sub-Division

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- B. Grade changes – of as little of 6", within the dripline, can have a negative affect to the trees. It is important that the natural drainage patterns be maintained to help prevent water from "ponding" at the base of the tree trunk. The natural trunk flare should always be visible.
 - C. Aeration – is the ventilation of the root system, which can be very beneficial in compacted areas. To alleviate a compaction problem, hand-dug holes of 6" dia. by 24" deep by 24" on-center to about 10' outside of the dripline. Fill the holes with natural organic matter (leaf litter). This material will decompose & will produce a year-around source of fertilizer for the tree.
4. Most Oaks/trees require little or no live wood pruning within their canopies. No major structural pruning shall be allowed. A qualified arborist under the review of **RDI & Associates, Inc. (dba TREES, etc.)** shall complete all dead wood removal and/or pruning.
- A. Trees do not heal the way people do. When a tree is wounded, it must grow over & compartmentalize the wound. As a result, the wound is contained within the tree forever. Small cuts do less damage than large cuts. For that reason, proper pruning or training of young trees is critical. Waiting to prune a tree until it is mature can create the need for large cuts that the tree can not easily close. Correct pruning cuts are critical to a tree's response in growth & wound closure. Pruning cuts should be made just outside of the branch collar (which contains trunk or parent branch tissues). If the cut is too large, the tree may suffer permanent internal decay from an improper pruning cut.
 - B. Dead wood pruning removal – is the removal of dead tissue, no matter the size, is an acceptable practice. All pruning should follow the standards as set forth by the International Society of Arboriculture (ISA).
 - C. Live wood pruning removal – live branches that are considered to be unsafe due to decay; branches with cavities, cracks, fire damaged, diseased or infested with insects; branches that are physically imbalanced; especially branches with the above noted problems that are over 2" in diameter should be considered for removal. All pruning should follow the standards as set forth by the ISA.
 - D. Cavities & hollows – should be kept free of loose debris, soil & plants. Some contain decayed wood, which should be treated by a qualified arborist only. Concrete or other similar materials should not be used to seal or fill in cavities or hollows. Cavities or hollows may be covered with screening to prevent debris build-up.
 - E. Wound Dressings or Sealants – it was once thought that dressings were used to accelerate wound closure, but research has found that dressings do not reduce decay or speed closure & rarely prevent insect or disease infestations. Pruning wounds should not be sealed with any type of "pruning wound sealing compounds". Over time, these materials crack & can

OAK TREE REPORT

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create entry points for diseases and/or insects. Wounds will "heal" properly if pruned correctly.

5. Insects & Diseases

- A. Effective pest control begins with the observation by the land owner. Changes such as abnormal leaf drop, oozing sap or discolored or dying twigs or leaves typically indicate that something has changed. Land owners should be careful when using pesticides around an Oak tree. Herbicides (weed killers) should never be used within the Protected Zone of an Oak tree, unless approved & applied by a certified pesticide applicator.

6. Inspections & Reviews

- A. This site's Oak trees should be inspected on a periodic basis by this Consulting Arborist. The inspection basis should be determined by the relative hazard value of the tree. If a tree is in a "high-use" area, it should be inspected at least on a quarterly basis, whereas a tree that is located in a "low-use" area may only require a bi-annual inspection.

NOTICE of DISCLAIMER = Opinions given in this report are those of **RDI & Associates, Inc. (dba TREES, etc.)**, and are derived from current professional standards based on visual recordings at the time of inspection. This visual record does not include aerial or subterranean inspections, and therefore may not reveal existing hidden hazards. Records may not remain accurate after inspection due to changeable deterioration of the inventoried plant material. **RDI & Associates, Inc. (dba TREES, etc.)**, provides no warranty regarding errors of omission resulting from the lack of communication of facts available only to the requester of this report which are expressed or implied as to the fitness of the urban forests for safe uses. **RDI & Associates, Inc. (dba TREES, etc.)** has no past, present or future interest in this property or the subject trees. This report may not be reproduced without the expressed written permission of **RDI & Associates, Inc. (dba TREES, etc.)**. Any change or alteration to this report invalidates the entire report.

If you have any further questions, please do not hesitate to call **RDI & Associates, Inc. (dba TREES, etc.)**.

Sincerely,
RDI & Associates, Inc.
dba **TREES, etc.**



Richard Ibarra, President
CONSULTING ARBORIST
(OAK TREE CONSULTANT)

TREE CANOPY MEASUREMENTS

[eight-point driplines (north, northeast, east, southeast, south, southwest, west, & northwest), along with the minimum clearances from the existing field grades to the bottoms of the canopy at each compass point – **where possible**]

TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

TREE NUMBER		1	2	3	4	5	6	7	8	9	10
FACTORS	POINTS										
CROWN DEVELOPMENT											
Well Balanced	5 points	X									X
Lacking Natural Symmetry	3 points		X	X	X	X	X	X	X	X	
Lacking a Full Crown	1 point										
TRUNK CONDITION											
Sound & Solid	5 points	X		X					X		X
Section of Bark Missing:											
Less Than 1/4 Around	4 points										
1/4 to 1/2 Around	3 points										
1/2 or More Around	2 points										
Stump with New Basal Growth	1 point										
Extensive Decay or Hollow Trunk	0 points		X		X	X	X	X		X	
BRANCH STRUCTURE											
No Defects	5 points										
Dieback (Limited)	4 points	X	X	X	X	X	X	X	X	X	X
Few Structurally Dead or Broken Branches	3 points										
Many Structurally Dead or Broken Branches	1 point										
TWIG GROWTH											
Typical for Species & Age	5 points	X	X	X	X	X	X	X	X	X	X
Less Than 1/2 Normal	3 points										
Growth Greatly Reduced	1 point										
FOLIAGE											
Normal Size & Color	5 points	X	X	X	X	X	X	X	X	X	X
Minor Deficiency Symptoms	3 points										
Major Deficiency Symptoms	1 point										
INSECTS & DISEASES											
No Insects or Diseases Apparent	5 points										
Few Controllable Insects/Diseases Apparent	3 points	X		X					X		X
Severe Infestation	1 point		X		X	X	X	X		X	
ROOTS											
No Root Problems Apparent	5 points	X	X	X							X
Minor Root Problems	3 points				X	X	X	X	X	X	
Severe Root Problems	1 point										
TOTAL POINTS		32	23	30	21	21	21	21	28	21	32
Aesthetic Grade		A	B	B	B	B	B	B	B	B	B

ADDITIONAL COMMENTS

20.3" x 35"	(465)	21.6" 22.2" 4.8" x 30"	(405)	22.2" 25.7" x 40"	(465)	18" 24.2" x 30"	(405) Heritage	23" 25" x 30"	10" 12" 17" x 25"	(397)	19" 19" x 25"	(407) 13" dead stump	26.6" 30.2" 2 1/2" 3" x 35"	(406) wires on trunk	25.7" 24.6" x 40" Heritage	(408)	9.6" 24.8" x 35"
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TREE EVALUATIONS

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TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

		TREE NUMBER	11	12	13	14	15	16	17	18	19	20
FACTORS	POINTS											
CROWN DEVELOPMENT												
Well Balanced	5 points							X		X	X	
Lacking Natural Symmetry	3 points		X	X	X	X	X		X			X
Lacking a Full Crown	1 point											
TRUNK CONDITION												
Sound & Solid	5 points			X			X	X		X	X	
Section of Bark Missing:												
Less Than 1/4 Around	4 points											
1/4 to 1/2 Around	3 points											
1/2 or More Around	2 points											
Stump with New Basal Growth	1 point											
Extensive Decay or Hollow Trunk	0 points		X		X	X			X			X
BRANCH STRUCTURE												
No Defects	5 points											
Dieback (Limited)	4 points		X	X	X	X	X	X		X	X	X
Few Structurally Dead or Broken Branches	3 points								X			
Many Structurally Dead or Broken Branches	1 point											
TWIG GROWTH												
Typical for Species & Age	5 points		X	X	X	X	X	X	X	X	X	X
Less Than 1/2 Normal	3 points											
Growth Greatly Reduced	1 point											
FOLIAGE												
Normal Size & Color	5 points		X	X	X	X	X	X	X	X	X	X
Minor Deficiency Symptoms	3 points											
Major Deficiency Symptoms	1 point											
INSECTS & DISEASES												
No Insects or Diseases Apparent	5 points											
Few Controllable Insects/Diseases Apparent	3 points			X			X	X		X	X	
Severe Infestation	1 point		X		X	X			X			X
ROOTS												
No Root Problems Apparent	5 points							X				
Minor Root Problems	3 points			X	X	X	X		X	X	X	X
Severe Root Problems	1 point		X									
TOTAL POINTS			19	28	21	21	28	32	20	30	30	21
Aesthetic Grade			B	B	B	B	A	C	A	B	B	B

ADDITIONAL COMMENTS

(409), Heritage	(410) Leaning West	(411)	(414)	(473)	(409)	(469-472), Heritage	(411)	(412)	(468)	
25.0" 27.4" x 40'	13.6" x 20'	17.9" 2" 4 1/2" 4" x 20'	13" 19" 19 1/2" 18" 12" x 30'	12" 15" x 20'	6.5" 14.5" x 20'	7.5" 20" 18" 6" 23" 24" x 30'	31.8" 336" high x 25'	25.7" x 25'	32.1" x 30'	

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TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

		TREE NUMBER	21	22	23	24	25	26	27	28	29	30
FACTORS	POINTS											
CROWN DEVELOPMENT												
Well Balanced	5 points		X			X	X	X				
Lacking Natural Symmetry	3 points			X	X				X	X		X
Lacking a Full Crown	1 point										X	
TRUNK CONDITION												
Sound & Solid	5 points		X					X				X
Section of Bark Missing:												
Less Than 1/4 Around	4 points											
1/4 to 1/2 Around	3 points											
1/2 or More Around	2 points											
Stump with New Basal Growth	1 point											
Extensive Decay or Hollow Trunk	0 points			X	X	X	X		X	X	X	
BRANCH STRUCTURE												
No Defects	5 points											
Dieback (Limited)	4 points		X	X	X		X	X	X	X	X	X
Few Structurally Dead or Broken Branches	3 points											
Many Structurally Dead or Broken Branches	1 point											
TWIG GROWTH												
Typical for Species & Age	5 points		X	X	X		X	X	X	X	X	X
Less Than 1/2 Normal	3 points											
Growth Greatly Reduced	1 point											
FOLIAGE												
Normal Size & Color	5 points		X	X	X		X	X	X	X		X
Minor Deficiency Symptoms	3 points											
Major Deficiency Symptoms	1 point											
INSECTS & DISEASES												
No Insects or Diseases Apparent	5 points											
Few Controllable Insects/Diseases Apparent	3 points		X	X	X			X				X
Severe Infestation	1 point						X		X	X		
ROOTS												
No Root Problems Apparent	5 points		X	X	X		X	X	X	X		X
Minor Root Problems	3 points											
Severe Root Problems	1 point											
TOTAL POINTS			32	25	25	25	25	32	23	23	23	30
Aesthetic Grade			A	B	B	B	A	A	B	C	D	B

ADDITIONAL COMMENTS

(467) 28.2" x 30'

(466) 5" (232") high, 16", 15", 17" x 30'

(413) 6" 18" 2 x 20" x 35'

(464) Heritage 26" 28" 26" 9" x 30'

30.9" x 30'

28.7" x 30'

(295) 3" 16" 13" 14" 15" x 25'

(296) 9" 10" x 20'

(449) recently pruned 2.7" x 30'

(447) 5" 9" 12" 17" 14" x 30'

REMOVED PER CITY PERMIT

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TREE EVALUATIONS

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TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

		TREE NUMBER	41	42	43	44	45	46	47	48	49	50
FACTORS		POINTS										
CROWN DEVELOPMENT												
Well Balanced	5 points							X				
Lacking Natural Symmetry	3 points			X	X	X	X		X	X	X	X
Lacking a Full Crown	1 point		X									
TRUNK CONDITION												
Sound & Solid	5 points		X	X	X	X	X		X	X	X	
Section of Bark Missing:												
Less Than 1/4 Around	4 points											
1/4 to 1/2 Around	3 points											
1/2 or More Around	2 points											
Stump with New Basal Growth	1 point											
Extensive Decay or Hollow Trunk	0 points							X				X
BRANCH STRUCTURE												
No Defects	5 points											
Dieback (Limited)	4 points			X	X		X		X	X		
Few Structurally Dead or Broken Branches	3 points		X			X		X			X	X
Many Structurally Dead or Broken Branches	1 point											
TWIG GROWTH												
Typical for Species & Age	5 points		X	X	X	X	X	X	X	X	X	X
Less Than 1/2 Normal	3 points											
Growth Greatly Reduced	1 point											
FOLIAGE												
Normal Size & Color	5 points		X	X	X	X	X	X	X	X	X	X
Minor Deficiency Symptoms	3 points											
Major Deficiency Symptoms	1 point											
INSECTS & DISEASES												
No Insects or Diseases Apparent	5 points											
Few Controllable Insects/Diseases Apparent	3 points		X	X	X	X	X	X	X	X	X	X
Severe Infestation	1 point											
ROOTS												
No Root Problems Apparent	5 points		X	X	X	X	X	X	X	X	X	
Minor Root Problems	3 points											X
Severe Root Problems	1 point											
TOTAL POINTS			27	30	30	29	30	26	30	30	29	22
Aesthetic Grade			C	B	B	B	B	B	B	B	C	C

ADDITIONAL COMMENTS

(316) 19" x 40'	(313) 21" x 40'	(316) 16" x 35'	(318) 13" x 30'	(323) 19" x 30'	(320) 27" x 40'	(321) 18" x 35'	(322) 14" x 30'	15" x 30'	(324) 10" 12" x 25'
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TREE EVALUATIONS

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TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

		TREE NUMBER	51	52	53	54	55	56	57	58	59	60
FACTORS	POINTS											
CROWN DEVELOPMENT												
Well Balanced	5 points		X	X			X	X	X	X	X	X
Lacking Natural Symmetry	3 points				X	X						
Lacking a Full Crown	1 point											
TRUNK CONDITION												
Sound & Solid	5 points			X	X		X	X			X	X
Section of Bark Missing:												
Less Than ¼ Around	4 points											
¼ to ½ Around	3 points											
½ or More Around	2 points											
Stump with New Basal Growth	1 point											
Extensive Decay or Hollow Trunk	0 points		X			X			X	X		
BRANCH STRUCTURE												
No Defects	5 points											
Dieback (Limited)	4 points		X	X	X	X	X	X	X	X	X	X
Few Structurally Dead or Broken Branches	3 points											
Many Structurally Dead or Broken Branches	1 point											
TWIG GROWTH												
Typical for Species & Age	5 points		X	X	X	X	X	X	X	X	X	X
Less Than ½ Normal	3 points											
Growth Greatly Reduced	1 point											
FOLIAGE												
Normal Size & Color	5 points		X	X	X	X	X	X	X	X	X	X
Minor Deficiency Symptoms	3 points											
Major Deficiency Symptoms	1 point											
INSECTS & DISEASES												
No Insects or Diseases Apparent	5 points											
Few Controllable Insects/Diseases Apparent	3 points			X	X		X	X			X	X
Severe Infestation	1 point		X			X			X	X		
ROOTS												
No Root Problems Apparent	5 points			X	X		X	X	X	X	X	X
Minor Root Problems	3 points											
Severe Root Problems	1 point		X			X						
TOTAL POINTS			21	32	30	19	32	32	25	25	32	32
Aesthetic Grade			A	A	B	B	A	A	A	A	A	A

ADDITIONAL COMMENTS

(32.5) Heritage 34.6" x 40'	(32.7) Heritage 37.05" x 40'	(32.8) Beehive 18" x 20'	(32.9) 30.1" x 30'	(33.0) 31.83" x 35'	(33.1) 33.15" x 30'	(33.2) 34.2" x 30'	(43.8) 30.25" x 30'	(36.7) 29.9" x 30'	(44.4) 35.2" x 35'
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TREE EVALUATIONS

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TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

		TREE NUMBER	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
FACTORS	POINTS											
CROWN DEVELOPMENT												
Well Balanced	5 points		X	X			X			X	X	
Lacking Natural Symmetry	3 points				X			X	X			X
Lacking a Full Crown	1 point					X						
TRUNK CONDITION												
Sound & Solid	5 points				X				X	X	X	
Section of Bark Missing:												
Less Than 1/4 Around	4 points		X									
1/4 to 1/2 Around	3 points											
1/2 or More Around	2 points											
Stump with New Basal Growth	1 point											
Extensive Decay or Hollow Trunk	0 points			X		X	X	X				X
BRANCH STRUCTURE												
No Defects	5 points											
Dieback (Limited)	4 points		X		X		X	X	X	X	X	
Few Structurally Dead or Broken Branches	3 points			X								X
Many Structurally Dead or Broken Branches	1 point					X						
TWIG GROWTH												
Typical for Species & Age	5 points		X	X	X		X	X	X	X	X	X
Less Than 1/2 Normal	3 points					X						
Growth Greatly Reduced	1 point											
FOLIAGE												
Normal Size & Color	5 points		X	X	X		X	X	X	X	X	X
Minor Deficiency Symptoms	3 points					X						
Major Deficiency Symptoms	1 point											
INSECTS & DISEASES												
No Insects or Diseases Apparent	5 points											
Few Controllable Insects/Diseases Apparent	3 points				X				X	X	X	
Severe Infestation	1 point		X	X		X	X	X				X
ROOTS												
No Root Problems Apparent	5 points		X	X	X	X	X	X	X	X	X	X
Minor Root Problems	3 points											
Severe Root Problems	1 point											
TOTAL POINTS		29	24	30	14	25	23	30	32	32	22	
Aesthetic Grade		A	B	C	D	A	C	C	B	B	D	

ADDITIONAL COMMENTS

(338) Termites
 46.55" x 40' Heritage
 (366) Heritage
 40.9" x 35'
 (365)
 51/2" 6" x 20'
 (364)
 6" x 20'
 (363) Heritage
 37.0" x 40'
 (362)
 22.7" x 25'
 8" 9" x 25'
 Crowded by #69
 21/2" x 15'
 (361)
 15" x 25'
 31/2" 8" 11" x 25'

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TREE EVALUATIONS

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TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

		TREE NUMBER	71	72	73	74	75	76	77	78	79	80
FACTORS	POINTS											
CROWN DEVELOPMENT												
Well Balanced	5 points								X		X	X
Lacking Natural Symmetry	3 points		X	X	X	X	X	X		X		
Lacking a Full Crown	1 point											
TRUNK CONDITION												
Sound & Solid	5 points		X	X	X	X	X	X	X	X	X	X
Section of Bark Missing:												
Less Than ¼ Around	4 points											
¼ to ½ Around	3 points											
½ or More Around	2 points											
Stump with New Basal Growth	1 point											
Extensive Decay or Hollow Trunk	0 points											
BRANCH STRUCTURE												
No Defects	5 points											
Dieback (Limited)	4 points		X		X				X	X	X	X
Few Structurally Dead or Broken Branches	3 points			X			X	X				
Many Structurally Dead or Broken Branches	1 point											
TWIG GROWTH												
Typical for Species & Age	5 points		X	X	X	X	X	X	X	X	X	X
Less Than ½ Normal	3 points											
Growth Greatly Reduced	1 point											
FOLIAGE												
Normal Size & Color	5 points		X	X	X		X	X	X	X	X	X
Minor Deficiency Symptoms	3 points											
Major Deficiency Symptoms	1 point											
INSECTS & DISEASES												
No Insects or Diseases Apparent	5 points											
Few Controllable Insects/Diseases Apparent	3 points		X	X	X	X	X	X	X	X	X	X
Severe Infestation	1 point											
ROOTS												
No Root Problems Apparent	5 points		X	X	X	X	X	X	X	X	X	X
Minor Root Problems	3 points											
Severe Root Problems	1 point											
TOTAL POINTS			30	29	30	29	32	29	32	32	32	32
Aesthetic Grade			B	B	B	C	A	C	A	A	A	B

ADDITIONAL COMMENTS

(340) Wire in trunk 21.5" x 30"	(341) 28.7" x 30"	(342) 23.05" x 30"	(343) 10 1/2" x 18"	(344) 18" x 30"	(345) 24.7" x 30"	(346) 24" x 26" x 40" (41" high)	(347) 19" x 16" x 30"	(348) 3 1/2" x 13"	(349) 27.8" x 30"
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REMOVED PER CITY PERMIT (HALF OF TREE)
REMOVED PER CITY PERMIT
REMOVED PER CITY PERMIT
REMOVED PER CITY PERMIT

TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

TREE NUMBER		81	82	83	84	85	86	87	88	89	90
FACTORS	POINTS										
CROWN DEVELOPMENT											
Well Balanced	5 points		X					X	X		X
Lacking Natural Symmetry	3 points	X		X	X	X	X		X	X	
Lacking a Full Crown	1 point										
TRUNK CONDITION											
Sound & Solid	5 points	X		X	X			X			
Section of Bark Missing:											
Less Than 1/4 Around	4 points										
1/4 to 1/2 Around	3 points										
1/2 or More Around	2 points										
Stump with New Basal Growth	1 point										
Extensive Decay or Hollow Trunk	0 points		X			X	X		X	X	X
BRANCH STRUCTURE											
No Defects	5 points										
Dieback (Limited)	4 points	X	X	X	X		X	X	X		
Few Structurally Dead or Broken Branches	3 points					X					X
Many Structurally Dead or Broken Branches	1 point									X	
TWIG GROWTH											
Typical for Species & Age	5 points	X	X	X	X	X	X	X	X		X
Less Than 1/2 Normal	3 points									X	
Growth Greatly Reduced	1 point										
FOLIAGE											
Normal Size & Color	5 points	X	X	X	X	X	X	X	X	X	X
Minor Deficiency Symptoms	3 points										
Major Deficiency Symptoms	1 point										
INSECTS & DISEASES											
No Insects or Diseases Apparent	5 points	X			X						
Few Controllable Insects/Diseases Apparent	3 points			X				X	X		
Severe Infestation	1 point		X			X	X			X	X
ROOTS											
No Root Problems Apparent	5 points	X	X	X	X	X	X	X	X	X	X
Minor Root Problems	3 points										
Severe Root Problems	1 point										
TOTAL POINTS		32	25	30	32	22	23	22	27	18	24
Aesthetic Grade		B	A	B	B	C	C	B	A	C	A

ADDITIONAL COMMENTS

Crowded by #82
 3" x 15"
 (352), Heritage
 26" 32" x 35"
 (354) Western lean
 16" x 25"
 Crowded by #83
 4 1/2" x 13"
 (355); Woodpecker damage
 3 1/2" 5" 29" x 30"
 6" 5" x 15"
 (356)
 13" 14" 16" x 25"
 (357)
 31.6" x 30"
 (359)
 22" 23" x 30"
 (358)
 36.8" x 30"

TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

TREE NUMBER		91	92	93	94	95	96	97	98	99	100
FACTORS	POINTS										
CROWN DEVELOPMENT											
Well Balanced	5 points	X	X	X		X	X	X			
Lacking Natural Symmetry	3 points								X	X	X
Lacking a Full Crown	1 point				X						
TRUNK CONDITION											
Sound & Solid	5 points	X	X					X		X	
Section of Bark Missing:											
Less Than 1/4 Around	4 points										
1/4 to 1/2 Around	3 points										
1/2 or More Around	2 points										
Stump with New Basal Growth	1 point										
Extensive Decay or Hollow Trunk	0 points			X	X	X	X		X		X
BRANCH STRUCTURE											
No Defects	5 points										
Dieback (Limited)	4 points	X	X	X		X	X	X	X	X	
Few Structurally Dead or Broken Branches	3 points				X						X
Many Structurally Dead or Broken Branches	1 point										
TWIG GROWTH											
Typical for Species & Age	5 points	X	X			X	X	X	X		
Less Than 1/2 Normal	3 points			X	X					X	X
Growth Greatly Reduced	1 point										
FOLIAGE											
Normal Size & Color	5 points	X	X	X							
Minor Deficiency Symptoms	3 points				X	X	X	X	X	X	X
Major Deficiency Symptoms	1 point										
INSECTS & DISEASES											
No Insects or Diseases Apparent	5 points										
Few Controllable Insects/Diseases Apparent	3 points	X	X					X	X	X	
Severe Infestation	1 point			X		X	X				X
ROOTS											
No Root Problems Apparent	5 points	X	X			X	X			X	X
Minor Root Problems	3 points										
Severe Root Problems	1 point			X					X		
TOTAL POINTS		32	32	19		19	23	30	19	26	18
Aesthetic Grade		A	A	A		A	B	A	C	C	C

ADDITIONAL COMMENTS

(3787)	28.2" x 30	(379) Canopy in wires	25" @ 36" high x 25'	(380)	34.3" x 30'	19" x 25'	REMOVED IN 2020	(384) Heritage	44.2" x 30'	(383) 143.8" @ 4 1/2" high	30.5" @ 32" high x 30'	(381) Heritage	35.7" @ 42" high x 30'	(382)	16" @ 18" x 20'	(377)	2 x 13" x 25'	(376)	3 1/2" x 4" @ 19" x 21" x 3 1/2" x 1"
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TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

TREE NUMBER		101	102	103	104	105	106	107	108	109	110
FACTORS	POINTS										
CROWN DEVELOPMENT											
Well Balanced	5 points					X	X	X	X		X
Lacking Natural Symmetry	3 points	X	X	X	X					X	
Lacking a Full Crown	1 point										
TRUNK CONDITION											
Sound & Solid	5 points							X	X		X
Section of Bark Missing:											
Less Than 1/4 Around	4 points										
1/4 to 1/2 Around	3 points										
1/2 or More Around	2 points										
Stump with New Basal Growth	1 point										
Extensive Decay or Hollow Trunk	0 points	X	X	X	X	X	X			X	
BRANCH STRUCTURE											
No Defects	5 points										
Dieback (Limited)	4 points	X	X	X	X	X	X	X	X		X
Few Structurally Dead or Broken Branches	3 points									X	
Many Structurally Dead or Broken Branches	1 point										
TWIG GROWTH											
Typical for Species & Age	5 points	X	X	X	X	X	X	X	X	X	X
Less Than 1/2 Normal	3 points										
Growth Greatly Reduced	1 point										
FOLIAGE											
Normal Size & Color	5 points	X	X	X	X	X	X	X	X	X	X
Minor Deficiency Symptoms	3 points										
Major Deficiency Symptoms	1 point										
INSECTS & DISEASES											
No Insects or Diseases Apparent	5 points										
Few Controllable Insects/Diseases Apparent	3 points							X	X		X
Severe Infestation	1 point	X	X	X	X	X	X			X	
ROOTS											
No Root Problems Apparent	5 points	X	X	X	X	X	X	X	X	X	X
Minor Root Problems	3 points										
Severe Root Problems	1 point										
TOTAL POINTS		23	23	23	23	29	25	32	32	22	32
Aesthetic Grade		C	B	B	C	A	B	B	B	C	A

ADDITIONAL COMMENTS

(375)
13" 15" 18" x 30'

15" 21" x 30'

(373)
3 1/2" 13" x 25'

(372)
9" 13" 15" x 25'

(371)
38.5" x 30'

(369)
17" 18" x 30'

5" 24" x 30'

19" 22" x 30'

(445)
1 3/4" 6" 13" x 25'

(443)
16" 24 1/2" 20" x 30'

TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

		TREE NUMBER	111	112	113	114	115	116	117	118	119	120
FACTORS	POINTS											
CROWN DEVELOPMENT												
Well Balanced	5 points			X	X	X	X					
Lacking Natural Symmetry	3 points							X	X	X		
Lacking a Full Crown	1 point		X								X	X
TRUNK CONDITION												
Sound & Solid	5 points			X		X				X	X	X
Section of Bark Missing:												
Less Than 1/4 Around	4 points											
1/4 to 1/2 Around	3 points											
1/2 or More Around	2 points											
Stump with New Basal Growth	1 point											
Extensive Decay or Hollow Trunk	0 points		X		X		X	X	X			
BRANCH STRUCTURE												
No Defects	5 points											
Dieback (Limited)	4 points			X	X	X		X	X	X		X
Few Structurally Dead or Broken Branches	3 points						X				X	
Many Structurally Dead or Broken Branches	1 point		X									
TWIG GROWTH												
Typical for Species & Age	5 points			X	X	X		X	X	X		
Less Than 1/2 Normal	3 points						X				X	X
Growth Greatly Reduced	1 point		X									
FOLIAGE												
Normal Size & Color	5 points			X	X	X						
Minor Deficiency Symptoms	3 points						X	X	X	X	X	X
Major Deficiency Symptoms	1 point		X									
INSECTS & DISEASES												
No Insects or Diseases Apparent	5 points											
Few Controllable Insects/Diseases Apparent	3 points			X		X				X	X	X
Severe Infestation	1 point		X		X		X	X	X			
ROOTS												
No Root Problems Apparent	5 points			X	X	X	X	X	X	X	X	X
Minor Root Problems	3 points											
Severe Root Problems	1 point		X									
TOTAL POINTS			6	32	25	32	20	21	21	28	25	26
Aesthetic Grade			D	A	A	A	A	B	C	C	C	C

ADDITIONAL COMMENTS

(443) 15"	(439) 20.4" x 30"	39.0" x 35" Heritage (445) 27.2" x 30"	36.6" x 40" Heritage (450) 20" x 25"	2x13" 14" x 25"	(434) 12" 15" 18" x 30"	(435) 10" x 2 x 30"	6 1/2" x 30"
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TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

		TREE NUMBER	121	122	123	124	125	126	127	128	129	130
FACTORS	POINTS											
CROWN DEVELOPMENT												
Well Balanced	5 points			X				X	X			
Lacking Natural Symmetry	3 points				X	X				X	X	X
Lacking a Full Crown	1 point		X		X							
TRUNK CONDITION												
Sound & Solid	5 points		X									
Section of Bark Missing:												
Less Than 1/4 Around	4 points											
1/4 to 1/2 Around	3 points											
1/2 or More Around	2 points											
Stump with New Basal Growth	1 point											
Extensive Decay or Hollow Trunk	0 points			X	X	X	X	X	X	X	X	X
BRANCH STRUCTURE												
No Defects	5 points											
Dieback (Limited)	4 points		X	X		X	X		X	X		X
Few Structurally Dead or Broken Branches	3 points							X			X	
Many Structurally Dead or Broken Branches	1 point											
TWIG GROWTH												
Typical for Species & Age	5 points			X		X	X	X	X	X	X	X
Less Than 1/2 Normal	3 points		X									
Growth Greatly Reduced	1 point											
FOLIAGE												
Normal Size & Color	5 points			X		X	X		X			
Minor Deficiency Symptoms	3 points		X					X		X	X	X
Major Deficiency Symptoms	1 point											
INSECTS & DISEASES												
No Insects or Diseases Apparent	5 points											
Few Controllable Insects/Diseases Apparent	3 points		X	X		X						
Severe Infestation	1 point						X	X	X	X	X	X
ROOTS												
No Root Problems Apparent	5 points		X	X		X	X	X	X	X	X	X
Minor Root Problems	3 points											
Severe Root Problems	1 point											
TOTAL POINTS			24	29	10	25	23	22	25	21	20	21
Aesthetic Grade			C	B	E	B	C	B	B	B	C	C

ADDITIONAL COMMENTS

5" 9" x 30'	12" 24" x 30'	3" 4" 19" x 25'	18" 14" 20" 3 1/2" 25" x 30'	2x10" 2x9" 8" 7" x 30'	3x8" @ 4 1/2' high	22" 24" x 30'	3" 3x12" x 30'	5 1/2" 12" 9" 25" 12.1" x 30'	18" 13" 17" 4" x 35'	22" 18" x 30'
(4333)	(4333)	(4332)	(4332)	(4332)	(4332)	(4332)	(4332)	(4332)	(4332)	(4332)

REMOVED IN 2020 (PER CITY PERMIT)

Inspection Date (Project No.) 4/4/18

TREE EVALUATIONS

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TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

		TREE NUMBER	141	142	143	144	145	146	147	148	149	150
FACTORS	POINTS											
CROWN DEVELOPMENT												
Well Balanced	5 points					X			X	X		
Lacking Natural Symmetry	3 points		X	X	X		X	X			X	X
Lacking a Full Crown	1 point											
TRUNK CONDITION												
Sound & Solid	5 points		X	X	X	X	X	X	X	X		
Section of Bark Missing:												
Less Than ¼ Around	4 points											
¼ to ½ Around	3 points											
½ or More Around	2 points											
Stump with New Basal Growth	1 point											
Extensive Decay or Hollow Trunk	0 points										X	X
BRANCH STRUCTURE												
No Defects	5 points											
Dieback (Limited)	4 points		X	X	X	X	X	X	X	X	X	X
Few Structurally Dead or Broken Branches	3 points											
Many Structurally Dead or Broken Branches	1 point											
TWIG GROWTH												
Typical for Species & Age	5 points		X	X	X	X	X	X	X	X	X	X
Less Than ½ Normal	3 points											
Growth Greatly Reduced	1 point											
FOLIAGE												
Normal Size & Color	5 points		X	X	X	X	X	X	X	X	X	X
Minor Deficiency Symptoms	3 points											
Major Deficiency Symptoms	1 point											
INSECTS & DISEASES												
No Insects or Diseases Apparent	5 points											
Few Controllable Insects/Diseases Apparent	3 points		X	X	X	X	X	X	X	X	X	X
Severe Infestation	1 point											
ROOTS												
No Root Problems Apparent	5 points		X	X	X	X	X	X	X	X	X	X
Minor Root Problems	3 points											
Severe Root Problems	1 point											
TOTAL POINTS			30	30	30	32	30	30	32	32	25	25
Aesthetic Grade			B	B	B	A	B	B	B	B	C	C

ADDITIONAL COMMENTS

(417) Crowded by #142 2.7" x 30"	(418) Crowded by #141 17" x 25"	16" x 18" x 30" (456) 26" x 30"	(455) Crowded by #146 14" x 16" x 30" Crowded by #145 20" x 30"	(457) Crowded by #148 15" x 19" x 30"	(458) Crowded by #147 23" x 30"	(463) Crowded by #150 & #151 13" x 21" x 15" x 25"	(462) Crowded by #149 & #151 11" x 13" x 20"
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Inspection Date (Project No.) 3/20/18 (1008-1-18)

TREE EVALUATIONS

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TOTAL POINTS	CLASS	GRADE
31 to 35	Excellent	A
26 to 30	Good	B
16 to 25	Fair	C
11 to 15	Poor	D
6 to 10	Very Poor	E
0	Dead	F

		TREE NUMBER									
		171	172	-	OP1	OP2	OP3	-	-	-	-
FACTORS	POINTS										
CROWN DEVELOPMENT											
Well Balanced	5 points				X	X	X				
Lacking Natural Symmetry	3 points	X	X								
Lacking a Full Crown	1 point										
TRUNK CONDITION											
Sound & Solid	5 points				X		X				
Section of Bark Missing:											
Less Than 1/4 Around	4 points										
1/4 to 1/2 Around	3 points										
1/2 or More Around	2 points										
Stump with New Basal Growth	1 point										
Extensive Decay or Hollow Trunk	0 points	X	X			X					
BRANCH STRUCTURE											
No Defects	5 points										
Dieback (Limited)	4 points	X	X		X	X	X				
Few Structurally Dead or Broken Branches	3 points										
Many Structurally Dead or Broken Branches	1 point										
TWIG GROWTH											
Typical for Species & Age	5 points	X	X		X	X	X				
Less Than 1/2 Normal	3 points										
Growth Greatly Reduced	1 point										
FOLIAGE											
Normal Size & Color	5 points	X	X		X	X	X				
Minor Deficiency Symptoms	3 points										
Major Deficiency Symptoms	1 point										
INSECTS & DISEASES											
No Insects or Diseases Apparent	5 points										
Few Controllable Insects/Diseases Apparent	3 points				X		X				
Severe Infestation	1 point	X	X			X					
ROOTS											
No Root Problems Apparent	5 points	X	X		X	X	X				
Minor Root Problems	3 points										
Severe Root Problems	1 point										
TOTAL POINTS		23	24		32	25	32				
Aesthetic Grade		B	A		A	A	A				

ADDITIONAL COMMENTS

(334) Graded by #172 32.5" x 30'	(335) Graded by #171 20.65", 37.7" x 35'	28" x 30'	11", 17", 18", 36" x 30'	24" x 30'							
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REMOVED PER CITY PERMIT (FALLEN HALF)

TREE EVALUATIONS

[on & off property Oaks]

The inventory Health & Aesthetic Ratings of the trees are explained in the following:

The Health of the trees was visually determined from the following macroscopic inspection of signs and symptoms of disease.

- A. Excellent (31 to 35 points) - This tree is a healthy & vigorous tree characteristic of its species and free of any visible signs of disease or pest infestation.
- B. Good (26 to 30 points) - This tree is a healthy & vigorous tree. However, there are minor visible signs of disease and pest infestation.
- C. Fair (16 to 25 points) - This tree is healthy in overall appearance, but there is a normal amount of disease and/or pest infestation.
- D. Poor* (11 to 15 points) - This tree is characterized by exhibiting a greater degree of disease and/or pest infestation or structural instability than normal and appears to be in a state of decline.
- E. Very Poor* (6 to 10 points) - This tree exhibits extensive signs of dieback.
- F. Dead* (0 points) - This tree exhibits no signs of life at the time of field evaluation.

* A tree rating of "D" and lower is in low vigor and naturally a meaningful level of recovery is doubtful. Removal should be considered if it is within the proposed development.

The Aesthetic quality of the trees was visually determined from the following overall inspection of appearance.

- A. Excellent - This tree is visually symmetrical, having the ideal form and appearance for the species.
- B. Good to Fair - This tree, though non-symmetrical, has an appealing form for the species with very little dieback of foliage or twigs/branches.
- C. Poor - This tree is non-symmetrical for the species with an unappealing form and/or has much dieback of foliage and twigs/branches.
- D. Very Poor - This tree has few, if any, positive characteristics and may detract from the beauty of the landscape.

DRIPLINE MEASUREMENTS @ 8 compass points & canopy heights

Tree No.	North / Canopy Ht.	Northeast / Canopy Ht.	East / Canopy Ht.	Southeast / Canopy Ht.	South / Canopy Ht.	Southwest / Canopy Ht.	West / Canopy Ht.	Northwest / Canopy Ht.
1	30°/20'	25°/20'	20°/8'	30°/10'	30°/10'	25°/15'	20°/25'	20°/20'
2	10°/5'	15°/10'	25°/10'	30°/10'	30°/10'	20°/10'	25°/10'	15°/10'
3	30°/20'	30°/15'	25°/20'	30°/20'	30°/20'	30°/20'	30°/20'	30°/20'
4	35°/10'	40°/15'	34°/10'	15°/10'	20°/20'	42°/15'	30°/20'	25°/20'
5	20°/20'	13°/25'	30°/20'	38°/10'	30°/10'	30°/25'	27°/20'	30°/20'
6	25°/15'	25°/20'	30°/15'	30°/10'	20°/10'	30°/10'	25°/20'	30°/15'
7	20°/20'	20°/10'	24°/10'	25°/10'	24°/15'	20°/10'	14°/20'	20°/20'
8	0	0	0	30°/10'	30°/10'	30°/10'	25°/20'	0
9	30°/15'	30°/10'	25°/10'	25°/8'	20°/20'	10°/20'	30°/15'	30°/20'
10	30°/15'	28°/15'	25°/8'	25°/8'	30°/10'	30°/6'	5°/15'	20°/20'
11	30°/10'	15°/15'	10°/30'	30°/15'	30°/15'	30°/10'	30°/10'	27°/25'
12	25°/10'	25°/4'	20°/7'	0	0	0	20°/4'	20°/4'
13	20°/6'	25°/7'	20°/10'	20°/6'	30°/6'	25°/8'	25°/8'	20°/10'
14	30°/3'	36°/4'	30°/5'	30°/4'	30°/8'	30°/20'	30°/3'	30°/4'
15	20°/6'	30°/6'	20°/8'	20°/8'	0	0	10°/8'	20°/10'
16	14°/6'	10°/10'	16°/5'	17°/5'	16°/4'	16°/7'	13°/6'	16°/7'
17	30°/20'	25°/20'	30°/4'	30°/20'	30°/20'	25°/7'	24°/15'	30°/15'
18	12°/15'	22°/8'	26°/20'	37°/12'	16°/15'	5°/10'	5°/15'	7°/15'
19	10°/20'	12°/20'	17°/20'	32°/8'	20°/10'	18°/5'	12°/7'	12°/20'
20 PRESERVE	30°/20'	30°/30'	30°/20'	30°/15'	30°/20'	30°/20'	25°/10'	25°/20'
21	17°/10'	28°/7'	28°/7'	25°/20'	25°/30'	27°/20'	28°/20'	25°/10'
22	20°/5'	20°/5'	25°/6'	30°/5'	30°/4'	30°/6'	35°/15'	20°/15'
23	25°/5'	25°/10'	28°/15'	32°/10'	30°/4'	27°/6'	25°/6'	30°/20'
24	42°/15'	43°/5'	52°/5'	50°/5'	45°/4'	50°/10'	45°/15'	45°/15'
25	28°/10'	27°/6'	24°/10'	30°/10'	30°/15'	32°/7'	30°/8'	28°/7'

DRIPLINE MEASUREMENTS @ 8 compass points & canopy heights

Tree No.	North / Canopy Ht.	Northeast / Canopy Ht.	East / Canopy Ht.	Southeast / Canopy Ht.	South / Canopy Ht.	Southwest / Canopy Ht.	West / Canopy Ht.	Northwest / Canopy Ht.
26	28°/15'	25°/10'	25°/15'	30°/15'	30°/15'	26°/15'	20°/20'	25°/10'
27	33°/10'	30°/6'	27°/10'	25°/6'	20°/5'	25°/10'	30°/10'	38°/7'
28	0	20°/10'	20°/6'	25°/4'	25°/4'	10°/10'	0	0
29	0	0	0	10°/10'	0	0	0	0
30	17°/20'	30°/4'	28°/5'	30°/20'	33°/15'	25°/10'	35°/5'	35°/20'
31	28°/20'	28°/15'	27°/15'	25°/15'	12°/20'	15°/20'	20°/20'	25°/20'
32	15°/20'	15°/20'	20°/10'	20°/6'	15°/15'	20°/15'	20°/10'	15°/15'
33	26°/25'	25°/25'	26°/25'	10°/20'	5°/5'	20°/20'	10°/20'	25°/20'
34	20°/25'	20°/15'	10°/5'	15°/10'	10°/15'	20°/10'	20°/15'	20°/20'
35	0	28°/20'	26°/20'	3°/6'	1°/6'	1°/6'	0	0
36	0	21°/15'	0	0	0	0	0	0
37	33°/7'	15°/10'	5°/10'	0	0	0	10°/10'	15°/10'
38	0	0	0	20°/10'	25°/15'	10°/10'	0	0
39	0	20°/15'	20°/20'	25°/20'	20°/20'	20°/6'	0	0
40	0	0	0	25°/15'	25°/15'	0	0	0
41	20°/25'	0	5°/5'	5°/5'	5°/5'	5°/10'	10°/10'	25°/25'
42	35°/10'	33°/10'	33°/25'	0	0	0	0	30°/20'
43	25°/20'	25°/20'	20°/20'	20°/20'	30°/10'	0	0	0
44	0	0	0	20°/10'	25°/5'	20°/10'	0	0
45	25°/25'	25°/25'	25°/25'	25°/25'	20°/25'	25°/25'	25°/25'	25°/25'
46	20°/25'	20°/25'	20°/20'	25°/20'	25°/10'	25°/6'	25°/25'	20°/25'
47	30°/25'	35°/20'	15°/15'	0	0	0	15°/15'	25°/25'
48	8°/5'	8°/5'	5°/6'	5°/5'	5°/5'	5°/5'	5°/5'	8°/5'
49	25°/25'	0	0	0	0	0	20°/20'	25°/25'
50	15°/20'	10°/10'	10°/10'	10°/10'	20°/20'	20°/20'	15°/6'	20°/20'

DRIPLINE MEASUREMENTS @ 8 compass points & canopy heights

Tree No.	North / Canopy Ht.	Northeast / Canopy Ht.	East / Canopy Ht.	Southeast / Canopy Ht.	South / Canopy Ht.	Southwest / Canopy Ht.	West / Canopy Ht.	Northwest / Canopy Ht.
51	30'/15'	25'/25'	20'/25'	25'/15'	30'/10'	20'/10'	20'/20'	30'/10'
52	30'/20'	30'/20'	40'/20'	50'/15'	40'/1'	40'/2'	30'/5'	35'/10'
53 BEEHIVE	15'/10'	10'/15'	10'/15'	15'/15'	20'/15'	10'/10'	10'/10'	10'/10'
54	40'/20'	30'/20'	20'/20'	20'/25'	10'/25'	20'/25'	20'/20'	25'/20'
55	30'/10'	40'/6'	40'/6'	30'/10'	45'/10'	30'/10'	30'/10'	30'/10'
56	20'/5'	30'/6'	20'/6'	30'/6'	32'/3'	32'/6'	32'/6'	25'/6'
57	35'/10'	30'/8'	30'/6'	30'/5'	15'/5'	30'/5'	30'/4'	20'/10'
58	34'/15'	30'/15'	30'/6'	30'/6'	35'/6'	35'/6'	20'/10'	30'/15'
59	30'/6'	30'/6'	30'/6'	32'/6'	35'/6'	35'/6'	25'/6'	30'/6'
60	30'/6'	25'/6'	22'/6'	25'/6'	25'/6'	30'/6'	30'/6'	30'/6'
61	30'/20'	20'/20'	30'/20'	40'/6'	40'/4'	40'/10'	30'/20'	30'/10'
62	40'/10'	40'/10'	33'/10'	40'/4'	40'/7'	40'/5'	25'/15'	40'/15'
63	5'/5'	3'/10'	5'/5'	5'/5'	10'/6'	20'/8'	15'/10'	10'/8'
64	20'/15'	0	0	0	5'/5'	2'/3'	5'/10'	15'/15'
65	35'/10'	40'/10'	35'/20'	30'/20'	45'/20'	30'/20'	30'/25'	30'/25'
66	9'/15'	20'/15'	7'/15'	40'/6'	40'/6'	35'/6'	17'/10'	15'/20'
67	20'/15'	15'/15'	0	0	0	20'/15'	22'/15'	25'/15'
68	1'/5'	3'/6'	5'/10'	5'/7'	3'/10'	5'/7'	5'/10'	3'/10'
69	20'/10'	20'/10'	20'/10'	20'/10'	15'/10'	16'/10'	20'/10'	20'/10'
70	15'/10'	15'/10'	15'/15'	15'/15'	20'/6'	10'/20'	5'/10'	20'/15'
71	25'/20'	25'/20'	25'/20'	20'/20'	25'/20'	5'/10'	10'/10'	15'/10'
72	15'/20'	20'/20'	25'/20'	20'/20'	20'/20'	20'/20'	20'/20'	15'/20'
73	30'/15'	30'/15'	10'/10'	10'/10'	5'/10'	10'/10'	20'/15'	25'/20'
74	0	0	15'/15'	20'/20'	20'/15'	25'/20'	20'/25'	0
75	5'/25'	0	20'/25'	20'/25'	5'/25'	0	0	0

DRIPLINE MEASUREMENTS @ 8 compass points & canopy heights

Tree No.	North / Canopy Ht.	Northeast / Canopy Ht.	East / Canopy Ht.	Southeast / Canopy Ht.	South / Canopy Ht.	Southwest / Canopy Ht.	West / Canopy Ht.	Northwest / Canopy Ht.
76	22'/20'	0	0	0	0	0	23'/20'	30'/20'
BEEHIVE 77	30'/20'	25'/8'	25'/15'	25'/10'	20'/20'	25'/20'	22'/25'	30'/20'
78	5'/15'	10'/20'	20'/10'	25'/10'	20'/30'	20'/20'	15'/10'	5'/15'
79	4'/8'	3'/7'	3'/6'	3'/3'	5'/4'	10'/4'	3'/4'	3'/4'
80	10'/15'	20'/15'	30'/15'	30'/15'	30'/15'	30'/15'	30'/15'	20'/15'
82	40'/10'	35'/20'	30'/25'	35'/15'	35'/10'	30'/15'	20'/20'	25'/10'
81	3'/8'	4'/8'	4'/8'	6'/8'	8'/8'	5'/8'	0	0
84	15'/10'	10'/8'	10'/8'	0	0	10'/8'	10'/8'	10'/10'
83	0	0	0	20'/10'	20'/10'	20'/10'	15'/10'	0
85	20'/25'	20'/25'	27'/25'	25'/15'	20'/5'	30'/10'	30'/10'	30'/10'
86	10'/9'	7'/8'	6'/8'	5'/8'	12'/6'	13'/6'	14'/5'	10'/10'
87	20'/10'	25'/7'	20'/10'	30'/6'	25'/7'	20'/8'	20'/10'	25'/10'
88	23'/8'	30'/8'	25'/15'	20'/15'	20'/15'	23'/10'	25'/8'	24'/6'
89	28'/15'	30'/10'	30'/10'	20'/10'	17'/15'	20'/15'	25'/15'	30'/8'
90	40'/10'	35'/10'	30'/10'	30'/15'	30'/15'	30'/15'	37'/10'	35'/10'
91	27'/10'	30'/10'	30'/10'	28'/10'	25'/10'	25'/10'	20'/15'	25'/15'
92	18'/15'	20'/15'	26'/10'	29'/10'	28'/10'	—	—	—
93	30'/15'	35'/15'	30'/10'	35'/7'	30'/10'	25'/15'	30'/10'	30'/10'
94	0	0	0	10'/15'	20'/15'	29'/10'	20'/10'	0
95	25'/10'	30'/10'	30'/10'	25'/6'	25'/10'	25'/15'	25'/10'	25'/20'
96	30'/8'	30'/6'	22'/10'	25'/10'	25'/15'	25'/15'	22'/10'	25'/6'
97	27'/15'	30'/15'	30'/15'	25'/15'	23'/8'	25'/15'	30'/15'	30'/15'
98	20'/10'	25'/15'	25'/15'	20'/15'	15'/15'	20'/10'	9'/10'	20'/10'
99	25'/15'	20'/10'	20'/10'	23'/10'	22'/10'	20'/10'	21'/15'	20'/15'
100	30'/8'	25'/8'	20'/4'	15'/20'	22'/10'	27'/15'	22'/15'	30'/5'

DRIPLINE MEASUREMENTS @ 8 compass points & canopy heights

Tree No.	North / Canopy Ht.	Northeast / Canopy Ht.	East / Canopy Ht.	Southeast / Canopy Ht.	South / Canopy Ht.	Southwest / Canopy Ht.	West / Canopy Ht.	Northwest / Canopy Ht.
101	30°/10'	35°/10'	25°/10'	30°/10'	30°/10'	20°/10'	20°/20'	25°/15'
102	35°/15'	25°/10'	25°/10'	30°/10'	25°/10'	30°/10'	30°/10'	31°/8'
103	0	20°/20'	20°/15'	20°/15'	12°/3'	0	1°/5'	2°/10'
104	20°/10'	20°/8'	15°/20'	20°/20'	20°/15'	30°/3'	25°/15'	20°/10'
105	33°/10'	30°/15'	35°/8'	30°/8'	33°/10'	30°/15'	26°/20'	25°/15'
106	27°/15'	20°/15'	10°/20'	15°/6'	30°/15'	30°/6'	35°/10'	30°/10'
107	36°/20'	32°/10'	31°/15'	30°/15'	28°/20'	30°/15'	10°/20'	30°/20'
108	40°/8'	33°/10'	27°/15'	40°/8'	35°/8'	35°/7'	30°/10'	35°/8'
109	22°/8'	20°/10'	0	9°/10'	9°/10'	5°/10'	20°/10'	25°/7'
110	35°/15'	47°/10'	32°/10'	20°/15'	35°/20'	25°/15'	25°/15'	30°/15'
111	6°/5'	5°/10'	3°/10'	5°/7'	6°/8'	7°/10'	6°/10'	8°/10'
112	25°/20'	20°/20'	20°/8'	20°/10'	20°/15'	20°/15'	25°/20'	25°/20'
113	36°/10'	40°/15'	40°/6'	40°/5'	40°/6'	40°/6'	40°/10'	40°/7'
114	30°/6'	34°/10'	40°/4'	30°/6'	30°/6'	35°/7'	27°/20'	29°/10'
115	35°/10'	36°/10'	25°/15'	25°/10'	25°/13'	27°/15'	26°/8'	35°/10'
116	20°/10'	20°/15'	17°/10'	15°/6'	18°/8'	20°/10'	20°/10'	20°/10'
117	24°/8'	30°/8'	25°/6'	20°/6'	20°/9'	30°/8'	35°/8'	30°/8'
118	33°/10'	35°/10'	33°/8'	20°/20'	35°/15'	30°/10'	5°/20'	30°/8'
119	0	0	0	0	0	20°/20'	20°/20'	25°/20'
120	5°/8'	5°/8'	5°/8'	5°/8'	5°/8'	5°/8'	5°/8'	5°/8'
121	0	0	0	0	15°/15'	20°/15'	22°/15'	0
122	10°/15'	20°/10'	30°/5'	25°/6'	25°/6'	25°/10'	23°/20'	25°/12'
125	20°/6'	25°/16'	30°/6'	25°/6'	20°/15'	25°/6'	25°/6'	20°/6'
124	30°/10'	30°/15'	30°/10'	26°/15'	25°/20'	30°/15'	25°/10'	25°/15'
123	20°/10'	20°/10'	10°/6'	15°/6'	20°/6'	15°/7'	15°/6'	15°/6'

DRIPLINE MEASUREMENTS @ 8 compass points & canopy heights

Tree No.	North / Canopy Ht.	Northeast / Canopy Ht.	East / Canopy Ht.	Southeast / Canopy Ht.	South / Canopy Ht.	Southwest / Canopy Ht.	West / Canopy Ht.	Northwest / Canopy Ht.
126	25'/20'	20'/15'	16'/10'	20'/40'	30'/10'	25'/15'	25'/20'	25'/6'
127	10'/20'	15'/6'	20'/15'	20'/10'	17'/10'	25'/10'	20'/10'	20'/15'
128	20'/20'	30'/10'	30'/20'	35'/15'	30'/15'	35'/10'	30'/10'	30'/15'
129	35'/20'	30'/15'	30'/20'	30'/20'	25'/20'	25'/20'	25'/25'	30'/20'
130	40'/10'	30'/20'	20'/20'	30'/15'	32'/10'	30'/15'	33'/15'	35'/10'
131	—	—	—	—	—	—	—	—
132	33'/10'	31'/8'	0	0	0	30'/15'	28'/25'	30'/15'
133	20'/20'	30'/20'	25'/20'	30'/20'	35'/10'	35'/15'	25'/15'	20'/20'
134	26'/15'	20'/20'	17'/25'	20'/20'	25'/20'	25'/20'	20'/20'	25'/20'
135	25'/20'	35'/20'	48'/25'	50'/15'	45'/20'	45'/20'	45'/20'	40'/20'
136	25'/20'	25'/20'	25'/20'	25'/15'	25'/10'	25'/10'	30'/8'	25'/15'
137	25'/10'	28'/10'	30'/3'	30'/8'	30'/3'	30'/5'	30'/4'	30'/6'
138	3'/10'	20'/15'	20'/10'	20'/10'	21'/10'	22'/10'	25'/10'	22'/20'
139	15'/20'	25'/10'	23'/10'	27'/6'	24'/7'	25'/6'	10'/20'	15'/20'
140	15'/20'	35'/15'	40'/20'	40'/5'	35'/15'	35'/5'	26'/10'	27'/15'
141	32'/6'	35'/10'	20'/7'	5'/10'	2'/15'	5'/10'	20'/20'	30'/10'
142	0	15'/20'	15'/4'	15'/5'	20'/15'	30'/20'	20'/20'	25'/20'
143	25'/8'	25'/10'	30'/20'	25'/10'	25'/15'	25'/15'	30'/10'	30'/10'
144	25'/20'	20'/20'	30'/15'	25'/20'	20'/10'	25'/20'	30'/20'	25'/20'
145	30'/10'	25'/10'	20'/10'	0	0	30'/20'	35'/20'	30'/20'
146	10'/20'	25'/10'	20'/10'	20'/10'	30'/10'	25'/10'	20'/10'	10'/10'
147	20'/20'	26'/10'	20'/10'	15'/15'	10'/20'	30'/10'	30'/10'	30'/10'
148	10'/20'	15'/10'	20'/10'	20'/10'	30'/10'	30'/10'	30'/10'	25'/15'
149	25'/10'	20'/10'	15'/20'	10'/10'	22'/10'	30'/10'	30'/5'	30'/5'
150	0	25'/3'	30'/4'	0	0	0	0	30'/10'

DRIPLINE MEASUREMENTS @ 8 compass points & canopy heights

Tree No.	North / Canopy Ht.	Northeast / Canopy Ht.	East / Canopy Ht.	Southeast / Canopy Ht.	South / Canopy Ht.	Southwest / Canopy Ht.	West / Canopy Ht.	Northwest / Canopy Ht.
151	0	10/20	25/20	24/10	27/8	25/3	20/15	0
152	26/4	20/15	5/10	0	0	20/10	20/10	24/4
153	3/5	10/10	10/10	10/10	5/5	5/3	3/5	5/5
154	25/20	25/20	30/20	20/20	25/20	15/20	20/20	25/20
155	0	20/15	30/6	25/6	10/10	3/8	0	0
156	20/20	5/20	5/25	30/5	30/5	25/3	25/15	20/20
157	20/20	20/20	23/20	30/7	25/10	23/10	20/10	20/20
158	23/10	25/20	30/15	30/10	10/6	15/20	24/10	20/10
159	20/15	25/15	30/4	26/6	12/20	20/10	20/8	20/6
160	20/20	20/20	20/15	20/20	30/20	35/10	30/15	20/15
161	20/20	20/10	30/6	30/6	30/6	30/10	24/6	20/20
162	10/20	12/20	22/20	27/20	30/7	20/15	15/15	15/15
163	0	5/10	10/10	5/10	5/10	5/10	0	0
164	1/6	5/10	5/10	10/10	10/7	5/5	5/6	5/5
165	5/10	0	0	0	5/10	15/10	15/10	10/10
166	15/10	25/20	20/20	20/20	20/20	15/15	17/10	15/10
167	15/20	10/20	10/20	10/20	3/8	10/10	10/10	10/10
168	20/15	15/10	0	0	0	0	0	20/10
169	35/25	20/10	37/25	30/10	27/15	33/3	25/20	38/25
170	10/20	20/15	5/10	5/10	5/10	5/10	20/20	5/10

COMPATIBLE
NATIVE PLANTS
w/in or AROUND
OAK TREE
DRIPLINES

[CNPS]

Native Plants Compatible w/in or around the Oak tree driplines

<u>Scientific Name</u>	<u>Type</u>	<u>Common Name</u>
<i>Abelia grandiflora</i>	s	Glossy Abelia
<i>Acanthus mollis</i>	ph	Bear's Breach
<i>Achillea millefolium</i>	p	Common Yarrow ***
<i>Adenostoma fasciculatum</i>	s	Chamise ***
<i>Aesculus californica</i>	s	California Buckeye ***
<i>Adiantum jordanii</i>	f	California Maidenhair Fern
<i>Agave deserti</i>	su	Desert Century Plant
<i>Agrostis diegoensis</i>	pg	San Diego Bent Grass
<i>Allium</i> spp.	b	Wild Onion ***
<i>Aloe</i> spp.	su	Aloe
<i>Alstroemeria ligtu</i> 'hybrids'	b	Peruvian Lily
<i>Amaryllis belladonna</i>	b	Naked Lady Lily
<i>Amelanchier pallida</i>	s	Serviceberry
<i>Amorpha californica</i>	s	False Indigo
<i>Anemone blanda</i>	b	Anemone
<i>Aquilegia</i> spp.	ph	Columine
<i>Arabis</i> spp.	ph	Rock Cress
<i>Arbutus unedo</i>	s	Dwarf Strawberry Tree
<i>Arctostaphylos densiflora</i>	s	Sonoma Manzanita ****
<i>Arctostaphylos hookeri</i>	s	Monterey Manzanita
<i>Arctostaphylos manzanita</i>	s	Manzanita ***
<i>Arctostaphylos pajaricensis</i>	s	Pajaro Manzanita *****
<i>Arctostaphylos rudis</i>	s	Shagbark Manzanita ****
<i>Aristolochia californica</i>	v	Dutchman's Pipe ****
<i>Artemisia californica</i>	s	California Sagebrush
<i>Artemisia tridentata</i>	s	Basin Sagebrush ***
<i>Arum italicum</i>	ph	Italian Arum
<i>Asarum caudatum</i>	ph	Wild Ginger
<i>Asclepias eriocarpa</i>	ph	Indian Milkweed
<i>Asclepias fascicularis</i>	ph	Narrow-Leaved Milkweed
<i>Asparagus officinalis</i>	ph	Asparagus
<i>Aspidistra elatior</i>	ph	Cast Iron Plant
<i>Athyrium filix-femina</i>	f	Western Lady Fern
<i>Babiana stricta</i>	ph	Baboon-Flower
<i>Baccharis pilularis</i> "Twin Peaks"	gc/s	Coyote Bush ***
<i>Baccharis salicifolia</i>	s	Summer Holly
<i>Berberis darwinii</i>	s	Darwin Barberry
<i>Bergenia crassifolia</i>	ph	Winter Blooming Bergenia
<i>Bloomeria crocea</i>	ph	Golden Stars
<i>Brodiaea</i> spp.	b	----- ***
<i>Bromus carinatus</i>	pg	California Brome
<i>Bromus pseudolaevipes</i>	pg	Woodland Brome
<i>Buddleia davidii</i>	s	Butterfly Bush
<i>Buxus microphylla japonica</i>	s	Japanese Boxwood
<i>Calandrina ciliata menziesii</i>	a	Red Maids
<i>Calochortus</i> spp.	b/ph	Mariposa Lily ***
<i>Calycanthus occidentalis</i>	s	Western Spicebush *
<i>Campanula</i> spp.	ph	Bellflower
<i>Carpenteria californica</i>	s	Bush Anemone ****

Native Plants Compatible w/in or around the Oak tree driplines

<u>Scientific Name</u>	<u>Type</u>	<u>Common Name</u>
<i>Ceanothus</i> spp.	gc/s	Ceanothus ***
<i>Centaurea cyranus</i>	a	Bachelor's Button
<i>Centranthus rubra</i>	ph	Red Valerian
<i>Ceratostigma plumbaginoides</i>	gc	Dwarf Plumbago
<i>Cercis occidentalis</i>	s	Western Redbud ****
<i>Cercis siliquastrum</i>	s	Judas Tree
<i>Cercocarpus betuloides</i>	s	Mountain Mahogany
<i>Chlorogalum pomeridianum</i>	b	Soap Plant ***
<i>Chrysanthemum balsamita</i>	s	Costmary
<i>Cissus antarctica</i>	v	Kangaroo Ivy
<i>Cistus</i> spp.	s	Rockrose
<i>Clarkia</i> spp.	a	Farewell to Spring ***
<i>Clematis ligusticifolia</i>	s	Virgin's Bower
<i>Colchicum</i> spp.	ph	Autumn Crocus
<i>Collinsia</i> spp.	a	Chinese Houses
<i>Collomia</i> spp.	a	Collomia
<i>Comarostaphylos diversifolia</i>	s	Summer Holly ****
<i>Comus</i> spp.	s	Dogwood
<i>Convolvulus mauritanicus</i>	ph	Ground Morning Glory
<i>Coprosma kirkii</i>	gc	Creeping Coprosma
<i>Cornus stolonifera</i> var. <i>californica</i>	s	Creek Dogwood
<i>Correa</i> spp.	s	Australian Fuchsia
<i>Cotoneaster</i> spp.	gc/s	Cotoneaster
<i>Crocsmia crocosmiiflora</i>	b	Montbretia
<i>Crytomium falcatum</i>	f	Holly Fern
<i>Cyclamen</i> spp.	ph	Cyclamen
<i>Cynoglossum grande</i>	p	Neapolitan Cyclamen
<i>Daphne odorata</i>	s	Fragrant Daphne
<i>Delphinium parryi</i>	ph	Hound's Tongue, Parry's Larkspur
<i>Dendromecon rigida</i>	s	Bush Poppy ***
<i>Deschampsia caespitosa</i>	gc	Tufted Hairgrass
<i>Diplacus hybrids</i>	s	Monkey Flower
<i>Diascia</i> spp.	ph	Twinspur
<i>Dicentra formosa</i>	ph	Western Bleeding Heart
<i>Dodecatheon clevelandtii</i>	ph	Shooting Star
<i>Dryopteris</i> spp.	f	Wood Fern
<i>Dudleya</i> spp.	ph	Live-Forever ***
<i>Elaeagnus pungens</i>	s	Elaeagnus
<i>Elymus condensatus</i> "Canyon Prince"	pg	Canyon Prince Wild Rye
<i>Elymus glaucus</i>	pg	Western Rye Grass
<i>Elymus triticoides</i>	pg	Creeping Wild Rye
<i>Encelia californica</i>	s	Encelia ***
<i>Endymion non-scriptus</i>	ph	Bluebell-of-Scotland
<i>Ephedra</i> sp.	s	Morman Tea ***
<i>Erigeron glaucus</i>	ph	Seaside Daisy
<i>Eriogonum</i> spp.	ph/s	Buckwheat ***
<i>Eriophyllum lanatum</i> var. <i>arachnoideum</i>	ph	Woody Sunflower
<i>Erysimum</i> spp.	ph	Wallflower
<i>Escallonia exoniensis</i> 'Frades'	s	Frades Escallonia

Native Plants Compatible w/in or around the Oak tree driplines

<u>Scientific Name</u>	<u>Type</u>	<u>Common Name</u>
<i>Eschscholzia</i> spp.	a	Poppy ***
<i>Fallugia paradoxa</i>	s	Apache Plume ***
<i>Feijoa sellowiana</i>	s	Pineapple Guava
<i>Festuca</i> spp.	pg	Fescue ****
<i>Forestiera neo-mexicana</i>	s	Desert Olive ***
<i>Forsythia x intermedia</i>	s	Forsythia
<i>Fragaria californica</i>	ph	California Strawberry
<i>Freesia</i> 'Tecolote' hybrids	b	Freesia
<i>Fremontodendron californicum mexicanum</i>	s	Flannel Bush ***
<i>Galvezia speciosa</i>	s	Island Snapdragon
<i>Garrya</i> spp.	s	Silktassel ****
<i>Gaultheria shallon</i>	s	Lemon Leaf
<i>Gaura lindheimeri</i>	ph	Gaura
<i>Gilia achilleaefolia</i> spp. <i>multicalulis</i>	a	California Gilia
<i>Gnaphalium californicum</i>	ph	California Everlasting
<i>Grevillea rosmarinifolia</i>	s	Rosemary Grevillea
<i>Grindelia robusta</i>	ph	Gum Plant
<i>Hardenbergia violacea</i>	v	Lilac Vine
<i>Helictotrichon sempervirens</i>	pg	Blue Oat Grass
<i>Helleborus foetidus</i>	s	Corsican Hellebore
<i>Hemerocallis</i> hybrids	ph	Day Lily
<i>Heteromeles arbutifolia</i>	s	Toyon, Christmas Berry ***
<i>Heuchera maxima</i>	ph	Island Alum-Root
<i>Holodiscus discolor</i>	s	Cream Bush
<i>Ilex cornuta rotunda</i>	s	Dwarf Chinese Holly
<i>Iris douglasiana</i>	ph	Douglas Iris
<i>Isomeris arborea</i>	s	Bladderpot ***
<i>Ixia</i> spp.	ph	Ixia
<i>Juglans californica</i>	t	Southern California Black Walnut
<i>Juniperus</i> spp.	gc/s	Juniper
<i>Keckeilla cordifolia</i>	s	Honeysuckle Penstemon
<i>Kniphofia uvaria</i>	ph	Red Hot Poker Plant
<i>Koeleria cristata</i>	g	Prairie Junegrass
<i>Lasthenia chrysostoma</i>	a	Gold Fields
<i>Lathyrus laetiflorus</i>	v	Wild Sweet Pea
<i>Layia platyglossa campenstris</i>	a	Tidy Tips
<i>Lepechinia</i> spp.	s	Pitcher Sage
<i>Lilium humboldtii</i>	ph	Humbolt Lily
<i>Limonium perezii</i>	ph	Sea Lavender
<i>Linanthus androsaceus</i>	a	Common Linanthus
<i>Liriope</i> spp. & <i>Ophiopogon</i> spp.	pg	Lily Turf
<i>Lobelia laxiflora</i>	ph	Mexican Lobelia
<i>Lonicera hispidula</i>	ph	California Honeysuckle
<i>Lupinus</i> spp.	ph/s	Lupine ***
<i>Lycoris radiata</i>	ph	Spider Lily
<i>Lyonothamnus floribundus</i>	s	Santa Cruz Island Ironwood
<i>Mahonia</i> spp.	s	Oregon Grape ***
<i>Malosma laurina</i>	s	Laurel Sumac
<i>Melica imperfecta</i>	pg	Coast Range Melic Grass

Native Plants Compatible w/in or around the Oak tree driplines

<u>Scientific Name</u>	<u>Type</u>	<u>Common Name</u>
<i>Mimulus</i> spp.	s	Monkeyflower **
<i>Monardella villosa</i>	ph	Lavender Coyote Mint *****
<i>Montia perfoliata</i>	a	Miners Lettuce
<i>Muhlenbergia rigens</i>	g	Deergrass ****
<i>Muscari</i> spp.	b	Grape Hyacinth
<i>Myosotis sylvantica</i>	ph	Forget-Me-Not
<i>Myrica californica</i>	s	Pacific Wax Myrtle
<i>Myrsine africanum</i>	s	African Box
<i>Myrtus communis</i>	s	Myrtle
<i>Nandina domestica</i>	s	Heavenly Bamboo
<i>Narcissus</i> spp.	b	Daffodil
<i>Nemophila maculata</i>	a	Five-Spot ***
<i>Nemophila menziesii</i>	a	Baby-Blue-Eyes
<i>Nepeta faassenii</i>	ph	Catmint
<i>Nephrolepis cordifolia</i>	f	Southern Sword Fern
<i>Nerine</i> spp.	ph	Nerine
<i>Nerium oleander</i> 'Petite'	s	Petite Oleander
<i>Nigella damascena</i>	a	Love-in-a-Mist
<i>Nolina</i> spp.	gc	Nolina
<i>Ochna serrulata</i>	s	Mickey Mouse Plant
<i>Oenothera</i> spp.	a	Evening Primrose
<i>Orignum dictamnus</i>	ph	Dittany of Crete
<i>Ornithogalum</i> spp.	ph	Ornithogalum
<i>Orthocarpus densiflorus</i>	a	Owl's Clover
<i>Osmoronia cerasiformis</i>	s	Oso Berry
<i>Oxalis oregana</i>	ph	Redwood Sorrel
<i>Oxalis purpurea</i>	b	Pink Bulb Oxalis
<i>Pellaea mucronata</i>	f	Bird's Foot Fern
<i>Pennisetum alopecuroides</i>	g	Fountain Grass
<i>Penstemon</i> spp.	s	Penstemon **
<i>Phacelia parryi</i>	a	Phacelia
<i>Pholistoma racemosa</i>	a	Fiesta Flower
<i>Physocarpus capitatus</i>	s	Nine-Bark
<i>Pickeringia montana</i>	s	Chaparral Pea ***
<i>Pinus mugo</i>	s	Mugho Pine
<i>Pityrogramma triangularis</i>	f	California Goldback Fern
<i>Platystemon californicum</i>	a	Cream Cups
<i>Plumbago auriculata</i>	s	Cape Plumbago
<i>Polygonum capitatum</i>	gc	Pink Knotwood
<i>Polypodium</i> spp.	f	Leather Fern
<i>Polypody californicum</i>	f	California Polypody
<i>Polystichum munitum</i>	f	Western Sword Fern
<i>Potentilla glandulosa</i>	ph	Sticky Cinquefoil
<i>Prunus ilicifolia</i>	s	Hollyleaf Cherry ****
<i>Prunus lyonii</i>	s	Santa Catalina Cherry ***
<i>Punica granatum</i> 'Nana'	s	Dwarf Pomegranate
<i>Quercus agrifolia</i>	t	Coast Live Oak
<i>Quercus dumosa</i>	s	Scrub Oak
<i>Quercus durata</i>	s	Leather Oak

Native Plants Compatible w/in or around the Oak tree driplines

<u>Scientific Name</u>	<u>Type</u>	<u>Common Name</u>
<i>Quercus lobata</i>	t	Valley Oak
<i>Quercus parvula</i>	s	Santa Cruz Island Oak
<i>Quercus wislizenii</i>	t	Interior Live Oak
<i>Ranunculus californicus</i>	ph	California Buttercup
<i>Rhamnus</i> spp.	s	Coffeeberry ****
<i>Rhododendron</i> spp.	s	Azalea
<i>Rhus</i> spp.	s	Sugar Bush ***
<i>Ribes</i> spp.	gc/s	Current, Gooseberry ****
<i>Romneya coulteri</i>	ph/s	Matilija Poppy ***
<i>Rosa californica</i>	s	California Wild Rose ****
<i>Rosemarinus officianalis</i>	gc/s	Rosemary
<i>Rubus ursinus</i>	ph	Blackberry
<i>Rumohra adiantiformis/Aspidium capensis</i>	f	Leather-Leaf Fern
<i>Ruscus aculeatus</i>	s	Butcher's Broom
<i>Salvia</i> spp.	ph/s	Salvia ***
<i>Sambucus mexicana</i>	s/t	Mexican Elderberry
<i>Santolina chamaecyparissus</i>	ph	Gray Lavender Cotton
<i>Saponaria officinalis</i>	s	Bouncing-Bet
<i>Sarcococca ruscifolia</i>	s	Fragrant Sarcococca
<i>Satureja douglasii</i>	ph	Yerba Buena
<i>Scabiosa atropurpurea</i>	a	Pincushion Flower
<i>Scaevola 'Mauve Clusters'</i>	gc	Fan Flower
<i>Scilla peruviana</i>	b	Peruvian Scilla
<i>Scophularia californica</i>	ph	California Figwort
<i>Scutellaria tuberosa</i>	ph	Skull Cap
<i>Sedum acre</i>	ph	Golden Moss Sedum
<i>Sidalcea candida</i>	ph	Dwarf Hollyhock
<i>Simmondsia chinensis</i>	s	Joboba ***
<i>Sisyrinchium bellum</i>	ph	Blue-Eyed Grass *****
<i>Sitanion</i> spp.	pg	Squirreltail
<i>Solanum xanthii</i>	ph	Purple Nightshade
<i>Sollya heterophylla</i>	s	Australian Bluebell Creeper
<i>Sparaxis</i> spp.	ph	Sparaxis
<i>Stachys bullata</i>	ph	Wood Mint
<i>Sternbergia lutea</i>	b	Fall Yellow Crocus
<i>Stipa cernua</i>	pg	Spear Grass ***
<i>Stipa lepida</i>	pg	Needlegrass ***
<i>Stipa pulchra</i>	pg	Needle Grass ***
<i>Symphoricarpos</i> spp.	s	Snowberry ****
<i>Syringia vulgaris</i>	s	Lilac
<i>Tellima grandiflora</i>	ph	Fringe Cups
<i>Teucrium fruticans</i>	s	Bush Germander
<i>Thalictrum polycarpum</i>	ph	Meadow Rue
<i>Thymus praecox arcticus</i>	ph	Mother-of-Thyme
<i>Tiarella unifoliata</i>	ph	Sugar Scoop
<i>Tolmeia menziesii</i>	ph	Piggy-Back Plant
<i>Trichostema lanatum</i>	s	Woody Blue Curls
<i>Trillium chloropetalum</i>	b	Common Trillium
<i>Tropaeolum majus</i>	a	Garden Nasturtium

Native Plants Compatible w/in or around the Oak tree driplines

<u>Scientific Name</u>	<u>Type</u>	<u>Common Name</u>
<i>Tulbaghia violacea</i>	ph	Society Garlic
<i>Umbellularia californica</i>	s	California Bay Laurel ****
<i>Vaccinium ovatum</i>	s	California Huckleberry
<i>Vancouveria planipetala</i>	ph	Inside-Out Flower
<i>Viburnum suspensum</i>	s	Sandankwa Viburnum
<i>Viguiera deltoidea</i> var. <i>parishii</i>	ph	Desert Sunflower ***
<i>Viola pedunculata</i>	a	Yellow Pansy
<i>Vitus</i> spp.	v	Wild Grape ****
<i>Whipplea modesta</i>	ph	Yerba de Selva ****
<i>Woodwardia fimbriata</i>	f	Giant Chain Fern
<i>Xylosma congestum</i>	s	Xylosma
<i>Yucca whipplei</i>	su	Yucca ***
<i>Zauschneria</i> spp.	a/s	California Fuchsia ***
<i>Zigadenus fremontii</i>	b	Star Lily

Notes:

- * Water monthly when young.
- ** Needs no summer watering, unless otherwise indicated.
- *** Full Sun (tolerates west and south exposures).
- **** Protect from afternoon Sun (partial Shade).
- ***** Full Shade or Morning Sun.

- a Annual
- f Fern
- pg Perennial Grass
- s Shrub
- v Vine

- b Bulb
- gc Groundcover
- ph Perennial Herb
- su Succulent
- t Tree

None of the above noted species should be planted within five (5) feet of the tree trunk.
 The above noted plants will do best if given a thorough deep watering 2 to 3 times during the growing season.

