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Assessment of 995 Trees at The Rise (Proposed Project) (Formerly known as Vallco Town Center Project) North Wolfe Road Cupertino, California

Site Visits:

Walter Levison, Consulting Arborist (WLCA)

(2015 to 2023)

Report:

(WLCA)

Original 10/5/2015 Revised 6/14/2019, 3/23/2022, 12/4/2023

Registered Member, American Society of Consulting Arborists and Life Member of the International Society of Arboriculture



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1.0 Summary

PROJECT SNAPSHOT:

A: SURVEY:

1,015 total trees or control points were included in the WLCA tree study. These trees are tagged #1 through #875 (875 trees), and #1,106 through #1,245 (140 trees). Some of these trees were considered "outside of project" area and were not within the planned development limit of work. These twenty (20) trees were noted in the attached Excel tree data table left hand column as "not in plan", reducing the total number of study trees within the project plan area to **995**.

Trees removed from the landscape as of the date of writing have been hatched out in the attached Excel tree database, and noted with approximate tree removal dates for reference. Two "control points" are within this tag number range. The updated Excel tree database now includes a column that references tree type (street tree / standard tree / development tree /transplant tree), and includes new tree condition data for Stevens Creek Blvd ash tree specimens #8 through #50. The current 12/4/2023 version of the tree database also contains black hatching through each tree that has been removed, along with notes on the approximate date of that tree's removal from the landscape, and includes new health, structure, and overall condition ratings for all Stevens Creek Blvd. and N. Wolfe Road ash specimens.

• B: REVISED DESIGN TREE DISPOSITION SHEET P0602B:

Total of 714 trees to be removed per the new 12/4/2023 plan.

- +/-461 "standard trees" to be removed, as defined by the project landscape architect.
- +/-90 "development area trees" to be removed, defined by the project landscape architect.
- +/-163 "street trees" to be removed, as defined by the project landscape architect.

Refer to the new 12/4/2023 tree disposition sheet attached to the end of this report (sheet P0602B) for a full resolution color-coded graphic representation of this plan.

LIST OF TREE TAG NUMBERS / TREES TO BE REMOVED (LIST SUBJECT TO REVISION):

STANDARD TREES (Groupings of tree tag numbers indicated in parentheses): (108-200), 203, (205-208), (210-218), (229-259), (264-269), 271, 272, (294-413), (417-426), (445-449), (476-519), 521, 522, 536, 542, 543, 545, 547, 549, 550, 553, (555-557), 559, 562, 564, (566-570), 597, 605, 612, 628, 629, (633-635), 669, 674, (678-703), 705, 711, (717-720), 723, 725, 726, 728, (731-739), (744-771), 804, 807, 808, 810, 814, 815, 821, 834, 836, 840, 843, 854, 855, 856, 871, (1215-1220), 1222, 1223, 1234, 1244.

DEVELOPMENT TREES (Groupings of tree tag numbers indicated in parentheses): (89-96), 100, 101, (1134-1214).

STREET TREES (Groupings of tree tag numbers indicated in parentheses): (1-50), (53-68), (71-88), (102-107), (219-228), 263, 270, (273-280), (285-292), (431-441), 450, (452-475), (1106-1113), (1127-1133), 1245.

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C: HIGHWAY RAMP PROJECT BY OTHERS:

Twenty-five (25) trees are expected to be removed by others during a highway ramp project, for which The Rise project is <u>not</u> responsible for mitigation. This will include twenty-five trees #281, 282, 283, 284, 414, 427, 428, 429, 430, 442, 443, 451, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125.

D: TRANSPLANTS:

Six (6) transplants were originally proposed by project team (trees #414, 415, 416, 260, 261, 262). These are large protected-size California sycamore trees located along North Wolfe Road. The City of Cupertino has allowed the project team to use their discretion in transplanting or removing these six (6) trees, and they are deemed "discretionary transplants" as of the date of writing. As of the date of writing, only California sycamores #260, 261, and #262 have been transplanted as a single rootball cluster at an above-ground temporary holding position at the southwest corner of The Rise site.

Tree #414 will be removed during highway ramp construction as noted above, which reduces the total discretionary transplant count to five (5) trees.

As of the date of writing, the City of Cupertino is requiring that the project transplant five (5) trees #67*, 70, 97, 98, and #99.

*Note that tree #67 is a street tree ash specimen, and that the actual tag number of the holly oak to be transplanted is "#69" (not "67" as stated in official City condition of approval documents).

Five (5) trees #69, 70, 97, 98, 99 are currently being held above-ground in wooden transplant boxes at the northeast corner of The Rise.

E: SUGGESTED ADDITIONAL REMOVALS / COAST REDWOODS:

At least 100+ additional tree removals have been suggested by WLCA in his Excel tree database column "author suggest removal", in addition to the 549 removals originally proposed by the team when this project was first proposed. This grouping of suggested removals originally included evergreen tree specimens (mainly coast redwoods) found to be in "very poor" overall condition (i.e. a tree with a rating of 6% to 20% overall condition rating points), or "dead" condition (0% to 5% overall condition rating), per follow-up assessments by WLCA in 2017, 2018, and 2019.

Many of the coast redwoods along the west side of West Perimeter Road are declining in overall condition, and exhibit symptoms of canopy twig and needle dieback due to the extended California drought period +/- 2011-2022, even after periodic heavy rainfall periods which allowed some specimens to initiate new twig and needle growth.

F: CALIFORNIA DROUGHT (+/-2011 THROUGH 2022) NEGATIVE EFFECTS ON STUDY TREES AS OF 2023:

Roughly 10% or more of the total coast redwood population at the project is now dead, up from 5% in 2015. Many of these trees were already in very poor overall condition when originally surveyed by WLCA in 2015.

At least sixty (60) evergreen tree specimens (again, mainly coast redwood specimens, but also including shamel ash tree specimens as well) have newly fallen into the "very poor" overall condition category since the original 2015 tree survey by WLCA. The prolonged California drought condition which persisted from roughly 2012 through 2018 was the main cause of this decline. Roughly 32% or more of the total coast redwood population at the project is now in the "very poor" category, up from 16% in 2015.





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The average loss of overall condition rating points by project tree specimens observed by WLCA between the original 2015 WLCA tree survey and this 2019 WLCA resurvey and report update was roughly minus 5 to minus 10 points per each evergreen tree, out of a total of 100 points possible in the tree condition rating system used by WLCA.

There were also a small number of coast redwood specimens which experienced an uptick in live twig density and live twig extension, resulting in increases in overall condition ratings for those trees. Some of the trees are experiencing new green shoot growth along their vertical mainstems and along their horizontal scaffold branches, as of spring, 2019.

(CALIFORNIA DROUGHT CONTINUED):

Important Note:

The coast redwood and shamel ash species are not appropriate species for use on a dry Santa Clara Valley site such as the proposed project area, and cannot be expected to thrive forever in an urban desert type situation. The additional greater than one-hundred (105+) total dead and very poor overall condition trees suggested by WLCA to be removed may thus not accurately reflect the true status of declining trees along east perimeter road and west perimeter road which were negatively affected by soil moisture deficit (aka "drought stress") for many years.

Even though the project has been temporarily irrigating existing mature trees on an almost year-round basis, using an extensive high flow rate over-grade irrigation piping system for the trees to be retained throughout the project site over the past few years, it may not mitigate the many years of droughty conditions that the trees have endured to date. It is not clear if the tree specimens in poor or very poor overall condition will be able to rebound with renewed vigorous shoot and foliar growth to fair or good overall condition rating, even with supplemental heavy irrigation water applications.

From an arborist perspective, it would be appropriate to remove relatively higher water-requiring tree species such as evergreen ash (*Fraxinus uhdei*) and coast redwood (*Sequoia sempervirens*), with more drought-tolerant climate-ready trees such as native and non-native oak species.

Attached to the end of this report document is a partial table of some of the new and unusual oak species on the Devil Mountain Nursery availability list, 'Clements' grow-site only (there are multiple Devil Mountain grow sites throughout California), as of Fall, 2023. Many of these oaks are available nowhere else, and many are considered "climate-ready" in terms of being able to withstand drought conditions after an initial 2-year establishment period of supplemental irrigation. Contact their senior horticulturalist Mr. Dave Teuschler for current availability of various oaks at 925-856-2697. Sales are wholesale to the trade, and contract grows of any of their tree species can be arranged.

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G: STEVENS CREEK BLVD AND N. WOLFE EVERGREEN ASH STREET TREE SPECIMENS:

Re-inspection Fall, 2023

WLCA re-inspected the entire Stevens Creek and N. Wolfe Road groves of shamel ash (evergreen ash) (*Fraxinus uhdei*) to update overall condition ratings of these trees in Fall, 2023. The Excel tree database version 12/4/2023 has been updated to reflect these new data.

Most of the shamel ash (*Fraxinus uhdei*) specimens along Stevens Creek Blvd exhibit visible symptoms of canopy decline in the terms of loss of live foliar density, loss of live twig density, and reduction in live twig extension lengths, likely all due to chronic drought conditions in California. However, it is not entirely clear how the chronic droughty weather condition is affecting the trees, since The Rise team has been applying heavy irrigation to the trees for years and years on almost a year-round basis, with 100's of gallons of water applied to each single tree per each single month, at great expense. This heavy irrigation should have maintained good live twig extension growth and live foliar density. But the reality is that the trees have ended up declining in terms of canopy vigor (health).

There is no emerald ash borer issue in California as of the date of writing, so this is not yet an issue for The Rise.

Climate

The author hypothesizes that this tree species may be accustomed to a higher atmospheric humidity level than is present in the south bay, and that this lack of high humidity (i.e. "dry air") and lack of summer rainfall in the Bay Area, with its unusual Mediterranean climate, has somehow caused the trees to go into a spiral of decline ranging in speed from slow to rapid over the past 10 to 12 years, during which time the California drought condition has persisted through most of the water years within that time period (not verified).

Historical Plantings of Shamel Ash

Note that shamel ash is a predominating street tree species and parking lot tree species throughout the City of Cupertino area due to mass plantings of this tree during the latter half of the 20th Century. Thousands of these Cupertino area ash trees at other sites (outside of The Rise property) may be in very poor or poor condition, due to the fact that any trees located far from irrigated turf lawn conditions may not be receiving nearly as much regular heavy supplemental irrigation water application as The Rise project is providing (not verified).

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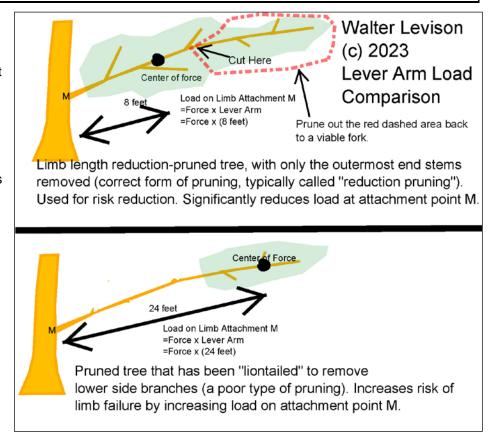
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Past Liontail Pruning

Most of the ash trees at The Rise exhibit structural issues related to past liontail pruning. The trees exhibit multiple codominant mainstems arising from forks with relatively narrow angles of attachment. The trees were severely limbed up to remove many lower elevation live stems, resulting in remaining canopies that are oddly lopsided, top-heavy. and exhibit a high elevation center of gravity/center of force (COF): a situation which puts high loading on the stem attachment points (see WLCA diagram above right on this page, illustrating how liontail pruning increases risk of stem failure by changing the center of force to a location higher and farther out on stems, resulting in higher load on limb attachment, while correct stem length reduction pruning brings the center of force closer to the ground, reducing risk of stem splitout by reducing load on limb attachment.



These ash trees likely never received young tree training pruning to remove competing mainstems developing from the lowest elevation fork, which means that the trees developed multiple codominant mainstems arising from a single elevation such as 12 feet, 18 feet, etc.

The presence of many codominant mainstems arising from narrow attachment forks in each tree means that the mainstems are relatively more likely to split out (fail) from those narrow angle forks than would a normal tree with a single central leader stem or two codominant mainstems with wide fork angle of attachment. This situation somewhat elevates the risk of mainstem failure and impact with targets such as pedestrians, cars, and drivers. (TRAQ risk rating determination is outside the scope of The Rise report preparation assignment).

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Street Tree Removal Scenarios

Hypothetically, if portions of the existing street tree rows, or single rows of ash specimens along Stevens Creek Blvd and N. Wolfe Road were to be removed instead of the current-proposed mass removal of all street trees along these locations, it is WLCA's professional opinion that this action would result in a significant increase in wind loading of the remaining partial grove tree specimens. Loss of "companion trees" means that remaining remnant trees in the landscape would be subject to increased wind load forces greater than which they are currently accustomed to. This could result in increased risk of stem failure of remaining remnant grove trees, especially those specimens located along the edges of the remaining remnant groves (i.e. the "edge effect"), whereby trees experience higher wind loading during storm events, due to loss of companion trees which previously shielded them from the full force of prevailing and/or counter-to-prevailing winds.

This is especially important at The Rise, given that any winds in a north to south direction would load up the already-lopsided tree canopies of ash trees lopsided southward over Stevens Creek Boulevard with bow-form stem lean and canopy asymmetry that have grown toward the south-canted sun track angle over time. The root systems are currently holding these trees upright using their holding strength (soil/root shear strength) to maintain normal positions against gravity and against normal winds. However, in the case that the northmost row of trees were to be removed along Stevens Creek Blvd, for instance, the remaining single row of trees (southmost row) would be subject to increased wind forces acting on those root systems, potentially causing whole tree failure and impact with motor vehicles, drivers, and pedestrians along Stevens Creek Blvd.

Construction of new buildings along the north side of that row of ash trees may or may not have positive or negative effects on risk, depending on resulting extent of root plate preserved in the landscape, and depending on wind-tunnel effects that could accelerate wind velocity in a north to south direction through or around new building massing.

Condition Ratings of Street Trees as of Fall, 2023

As noted above, the author reassessed almost every single street tree ash specimen along the north side of Stevens Creek Blvd, and along all sides of N. Wolfe Road (east side of street, west side of street, and in the median), to determine current health (vigor) rating, structural rating, and overall condition rating of approximately 135 total street tree shamel ash specimens in Fall, 2023. Findings include the following:

- Approximately 40% of fifty-three (53) Stevens Creek Blvd street tree shamel ash specimens are now in very poor (6% to 20%) overall condition or poor (21% to 40%) overall condition, due to chronic drought conditions, even with the property owner applying regular heavy irrigation to the trees.
- O Approximately 94% of +/- eight-two (82) N. Wolfe Road street tree shamel ash specimens are now in very poor or poor condition (i.e. 40% overall condition rating or less), due to chronic drought conditions, even with the property owner applying regular heavy irrigation to the trees. A few additional ash specimens along N. Wolfe Road were not reassessed, but are assumed to exhibit similar reductions in overall condition rating with generally noted significant loss of canopy vigor (health) that is expressed as live twig extension growth length and live foliar density.
- The above loss of vigor in terms of canopy twig extension growth length and canopy foliar density is directly due to soil moisture deficit over the long term, and as noted elsewhere in this report, is despite the fact that the property owner has been applying regular heavy irrigation to the trees for the last few years. Supplemental irrigation apparently did not allow the trees to recover from droughty weather conditions that plagued California almost every year since approximately 2011.

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Benefits of Removing Existing Ash Street Trees vs. Protection in Place

The following discussion is an exhibit that outlines the benefits of outright removal versus retention of existing street tree ash specimens along N. Wolfe Road and Stevens Creek Blvd.:

- a. Aesthetics: It is not ideal from an aesthetics standpoint to retain partial groves of large, mature, low-value ash trees on a site that is undergoing mass grading, because the remnant trees will not match new tree specimens installed in the landscape in terms of size, form, etc. It is typically better practice to remove all lower-value trees and begin new landscape tree installation from scratch, preserving only tree specimens that are long-lived species with good water-use characteristics (i.e. drought tolerance) and fair to good overall condition ratings, such as coast live oaks, valley oaks, etc.
- b. Water Use: Water use (conservation) is a major consideration, given that climate change will inevitably require that we choose landscape tree species based on drought-tolerance and lower overall water use requirements, as well as ability to tolerate recycled water ion content (e.g. "TDS" total dissolved solids). This typically rules out preservation of shamel ash* (and coast redwood) specimens in many Bay Area situations, which are considered higher water use tree species.
 - *Shamel ash tolerance of ionic content in recycled water has not been verified in any scientific studies, per the most current standard U.S. texts detailing landscape species tolerance to salt content in irrigation water.
- c. Windsail / Edge Effect / Loading: As noted above in this report section, retention of portions of tree groves creates a situation where edge trees along the perimeter of the remaining remnant grove will be subject to new wind load forces to which they were not previously accustomed to, which increases risk of tree failure for those trees that developed insufficient root plate development in directions that would have allowed for structural stability to hold their upright positions against storm wind loads.
- d. Rootable soil volume: Removal of existing trees allows for installation of new trees in planting areas that are developed with potentially better rootable soil volume (RSV) cubic footage to allow for better root extension and expansion over the long term, ideally avoiding planned new infrastructure development such as underground utility and drainage conduits and piping arrangements. Proposed new utilities, drainage, and various walkways, bus turnouts, bicycle lanes, curbs, etc. will require that significant portions of existing ash street tree root systems be damaged or destroyed, which will both reduce the trees' long term viability and condition ratings, and increase risk of whole tree failure.
- e. Locations: Removal of existing street tree ash specimens will allow for new trees to be optimally located in the landscape in groupings or single presentations that will enhance the overall master site plan, in terms of landscape configuration in relation to the proposed new building layout.
- f. Lopsidedness: Removal of existing street tree ash specimens will allow for removal of the southmost row of ash specimens along Stevens Creek Blvd. that are lopsided severely southward with "bow form" canopies that extend out over the roadway due to phototropism (tree growth toward the sun-track light source that is canted southward for a large portion of the year in the northern hemisphere).
- g. Optimal Grade: Existing soil surface grade of many of the street ash tree specimens along N. Wolfe Road and Stevens Creek Blvd. is non-optimal, given that the required site plan finish grade for much of the landscape, curbs, roadways, walkways, bicycle lanes, etc. will be different from existing elevations. This "grade differential" between existing and proposed elevations of site plan work means that existing tree root systems may be either buried under new fill soil during land contour grading, or need to be cut down in elevation to account for lower than existing grade elevation. Planned grading work will result in significant loss of tree root system function in terms of uptake of water and nutrients, as well as the loss of actual structural root plate within the distance (6 x diameter) offset radius from trunk edge. Trees with root plates located within planned work that is to occur

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within (6 x diameter) offset distance on 1 or more sides of the root system (i.e. within the "absolute minimum critical root zone" offset radius distance from trunk edge) are at risk of premature decline and/or death, as well as increased risk of whole tree failure and impact with ground targets. Actual optimal critical root zone for construction planned to occur on 1 side of a mature older tree specimen is more on the order of (8 x diameter) or (10 x diameter). However, this is very rarely achievable in real-world settings where construction may be required to occur up to (6 x diameter) distance from trunk edge, due to issues such as fire water valve construction, and City-mandated parking stall and sidewalk/bicycle path development.

Grade differential situations are easily resolved by the removal of existing trees, and replacement with new tree specimens in the landscape that are installed in new planting areas set at new finish grade elevations.

New finish grade elevation planters also allow for the project team to optimize the site for "positive drainage" such that storm water sheet flow along the surface of the landscape flows away from tree mainstems and into landscape open soil areas and/or toward drainage infrastructure, with less flooding or pooling.

h. Piped Irrigation: Removal of existing street tree ash specimens would allow for a complete rebuild of the older existing irrigation system without causing trenching-related root loss/damage to extensive root systems surrounding the (existing) trees.

Currently, the street trees are irrigated using a high flow flood bubbler system placed over-grade using temporary commercial grade Salco brand flexible PVC heavy gauge tubing and ½" diameter flood bubblers. Any trenching or grading occurring within 6 x diameter distance from the trees' mainstem edges to install permanent landscape irrigation piping would necessarily endanger the trees in terms of root plate damage, resulting in likely disruption of water and nutrient uptake, reduction of vigor (health), and increased risk of whole tree failure.

New landscape trees would <u>not</u> be subject to this type of root disruption, as the trees' root systems would be contained within new wood boxes, and the trees would be installed at a distance from new irrigation piping.

i. Emerald Ash Borer beetle (Agrilus planipennis):

Per the official USDA online informational source, Emerald Ash Borer (acronym "EAB") is a pest that has currently spread through 36 states and District of Columbia in the USA. EAB affects ash trees such as our *Fraxinus uhdei* (shamel ash) and many other species of ash in the United States, and is considered a very serious destructor of trees in the landscape, killing tens of millions of ash specimens in the eastern section of the United States to date.

Current focus by USDA is on biological control of the insect through release of parasitic wasps, as prior quarantines of wood movement and other methods utilized in an attempt to stop the spread of EAB through the landscape have apparently been ineffective.

It is not known when EAB will reach the California border, though we can hypothesize based on prior westward invasion from Eastern USA that EAB will eventually infect ash tree specimens in the Bay Area (not verified). If EAB does reach Bay Area landscapes, trees such as the street tree shamel ash specimens at The Rise will be a preferred host for the pest which could



potentially be destroyed by EAB infestation. The USDA-confirmed EAB infestation in closest proximity to California as of 2023 is an outbreak in **Oregon, USA** (see snippet at right, clipped from the official USDA emerald ash borer information page online. The red dot at northwest corner of Oregon is the confirmed EAB infestation).

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H: LIST OF TREE TAG NUMBERS TO REMAIN AND PROTECT-IN-PLACE (PIP):

Approximately 281 trees minus ten (10) transplants are to be retained and protected in place on site per the most current iteration of the tree disposition sheet P-0602B dated 12/4/2023, which is a subtotal of +/-271 trees to be retained and protected in place. Many individual specimens are dead, very poor, or poor overall condition, but are required to be retained as City-mandated sight-line screening, etc. per planning division conditions of project approval. Assumedly, some tree specimens within the PIP group with dead or very poor condition ratings will be removed and replaced in-situ over time.

STANDARD TREES PROTECT IN PLACE (PIP)

(Groupings of tree tag numbers indicated in parentheses):

#(524-535), (537-541), 544, 546, 552, 554, 558, 560, 561, (571-596), (598-604), (606-611), (613-627), (630-632), (636-668), (670-673), (675-677), 704, (706-708), 710, (712-716), (721-722), 724, 727, 729, 730, 740, (741-743), (772-803), 805, 806, 809, (811-813), (816-820), (822-833), 835, (837-839), 841, 842, (844-853), (857-870), (872-875), (1227-1233), (1235-1243).

DEVELOPMENT TREES PROTECT IN PLACE (PIP): None.

STREET TREES PROTECT IN PLACE (PIP): None.

DISCRETIONARY TRANSPLANTS:

- #414 expected to be removed for highway ramp construction.
- #415 and 416 are still in-ground and not transplanted as of the date of writing.

1.1 2019 Temporary Irrigation System Overview

(Excerpted and edited from the Walter Levison May, 2019 project site demolition phase 1a arborist inspection report)

An active, running, temporary over-grade irrigation system has now been built such that it extends all the way from a southwest entrance to the project site, all the way north to the northmost end of west perimeter road where it abuts up against the north end of the site. The system is set to run continuously throughout the year, multiple days per week, regardless of natural rainfall inch total accumulation into the open soil root zones of the trees. There are multiple valves with multiple timers present that are running on A/C current, in order to split the trees into groups fed by separate sections of pipe to minimize pressure loss along the pipe runs.

The activation of the systems requires no human effort, and they are set to operate throughout the year.

By using large diameter ½" high flow type (1GPM) flood bubblers, there is less likelihood of bubbler clogging as would otherwise occur if emitters or smaller diameter bubblers were built into the system.

Temporary Irrigation System components:

- Salco brand flexible PVC. UV and algae resistant. Salco model #PVC-AR-050IPS. "1/2 inch" diameter.
- White PVC ½ diameter" tubing couplings.
- "1 gallon per minute" flood bubblers.

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Irrigation System / Flow Volumes from Testing April, 2019 by WLCA:

| Irrigation System Volumetric Flow Test by WLCA (Spring, 2019) | PVC Irrigation Pipe Diameter | Output per Each 60 Seconds | System Timer Activation | Total Output Volume per Week per Tree | Output Volume per Month per Tree |
|---|---------------------------------|-------------------------------|---|---|--|
| 1 | 1.5" | 1/8 th gallon | 4x/week, 20 minutes activation time, 2 bubblers per each tree | 20 gallons | 80 gallons |
| 2 | 1.0" | 1/16 th gallon | (Same as above) | 10 gallons | 40 gallons |
| 3 | 1.5" | 1/8 th gallon | (Same as above) | 20 gallons | 80 gallons |

The total number of trees being irrigated along the west side of west perimeter road is approximately 275 trees.

The total monthly volume of irrigation output can be extrapolated as follows:

- a. 65% of trees fed using 1.0" diameter piping along west perimeter road = 0.65 X (275 X 40 gallons) = 7,150 gallons/month
- b. 35% of trees fed using 1.5" diameter piping along west perimeter road
 - = 0.35 X (275 X 80 gallons) = 7,700 gallons/month

TOTAL ESTIMATED VOLUME OF WATER USE PER MONTH ALONG WEST PERIMETER ROAD: +/- 15,000 GALLONS (VOLUME ADJUSTED PERIODICALLY, DEPENDING ON WEATHER CONDITIONS).

The irrigation system was expanded in 2019 using the same or equivalent components as described above, throughout the remaining areas of the project site (e.g. Stevens Creek Blvd. ash trees along the sidewalk, East Perimeter Road trees adjoining the Apple campus east of the roadway, N. Wolfe Road, etc.).

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Above: Image of the new 2019 temporary flood bubbler irrigation system set over-grade along the west side of west perimeter road, with flexible UV-resistant Salco brand tubing cold-welded to white PVC main lines. This type of high flow system was built up throughout most of the entire The Rise project site in 2019.

Note: The team has been directed to place the bubblers as far as possible offset from the trunks of the trees, with the understanding that roots extend as much as 50 feet or more from the trunks. However, bubblers on the west perimeter road temporary tree irrigation system were required to be placed near to the trunks in order to allow for golf carts and other vehicles to pass over the root zone during site inspections and site maintenance work.

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1.2 Summary Table

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The following matrix summarizes existing conditions at the site, and includes detailed information on tree disposition related to the current proposed development entitled The Rise project. The information was too complex to be presented in standard bulleted format:

| Line Number | Description | Details | Species | Condition Ratings | Municipal Protection Status? | Total Count |
|----------------|--|--|--|--|--|----------------|
| 1 | Total trees at site | Tree tag numbers ranging from #1 through #875, and from #1,106 through 1,245, with control points and trees already removed from the landscape since 2015 included as blank rows in the Excel tree database. | Various | Ranging from "dead" to "good". | None, except for six (6) trees to be transplant ed as noted below on line 2 of this table. | 995 |
| 2 | Protected trees on site (City of Cupertino tree ordinance) | #260, 261, 262, 414, 415, 416 | California sycamores | Fair to Good (see Excel tree data table for more details). | Yes ² | 6 |
| 3 | Transplants initially proposed by team (WLCA suggests considering removing the trees). | Six (6) protected trees in medians #260, 261, 262, 414, 415, 416. | California sycamore (protected specimens). Trees #260, 261, 262 have already been transplanted into a temporary aboveground holding location as of November, 2023. Trees #414, 415, and 416 are still in-ground in their original locations, as of November, 2023. | Fair to Good Condition (see Excel tree data table for more details). | Yes | 6 |

² These are discretionary transplants that can be removed by The Rise project if desired, despite their protected status. City of Cupertino project conditions of approval allow The Rise full discretion as to their final disposition.

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| Line Number | Description | Details | Species | Condition Ratings | Municipal Protection Status? | Total Count |
|----------------|--|--|---|-----------------------------------|------------------------------------|----------------|
| 4 | Transplants required by the City of Cupertino per SB 35 Planning Approval, 9/15/2018. | Five (5) trees in the Bay Club parking lot vicinity. | Trees #69, 70, 97, 98, 99. | Various | No | 5 |
| 5 | STANDARD TREE Removals proposed by team per sheet P-0602B revision date 12/4/2023. (Excluding highway ramp construction work by others). | Direct and indirect conflicts with proposed demolition and new construction. | (Tag Numbers) (108-200), 203, (205-208), (210-218), (229-259), (264-269), 271, 272, (294-413), (417-426), (445-449), (476-519), 521, 522, 536, 542, 543, 545, 547, 549, 550, 553, (555-557), 559, 562, 564, (566-570), 597, 605, 612, 628, 629, (633-635), 669, 674, (678-703), 705, 711, (717-720), 723, 725, 726, 728, (731-739), (744-771), 804, 807, 808, 810, 814, 815, 821, 834, 836, 840, 843, 854, 855, 856, 871, (1215-1220), 1222, 1223, 1234, 1244. | (Various condition ratings) | No | 461 |
| 6 | Removals proposed by team per sheet P-0602B revision date 12/4/2023. (Excluding highway ramp construction work by others). | Direct and indirect conflicts with proposed demolition and new construction. | (Tag Numbers) (1-50), (53-68), (71-88), (102-107), (219-228), 263, 270, (273-280), (285-292), (431-441), 450, (452-475), (1106-1113), (1127-1133), 1245. | (Various condition ratings) | Yes | 163 |



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| Line Number | Description | Details | Species | Condition Ratings | Municipal Protection Status? | Total Count |
|----------------|---|---|--|---|------------------------------------|----------------|
| 7 | DEVELOPMENT TREE Removals proposed by team per sheet P-0602B revision date 12/4/2023. | Direct and indirect conflicts with proposed demolition and new construction. | (Tag Numbers) (89-96), 100, 101, (1134-1214). | (Various condition ratings) | No | 90 |
| 8 | ADDITIONAL TREES Suggested to be removed by WLCA due to "dead" or "very poor" overall condition ratings. | Note: In this evergreen tree grouping, WLCA did not include deciduous trees along east perimeter road or west perimeter road. | (Tag Numbers) (Partial list from older survey data iteration circa 2019) #583, 592, 597, 598, (603-608), 610, (628-631), (633-637), 639, 646, 648, 653, 654, (659-661), (669-672), 675, 677, 683, (704-708), 711, 714, (716-719), 721, 722, (724-727), 735, 736, 758, 763, 764, 768, 777, 780, 786, 787, 794, 804, (807-817), 821, 825, 827, 834, 836, 840, 843, 846, 852, (853-856), 867, 873, plus additional tag numbers. This list would include additional coast redwood specimens if the trees along West Perimeter Road were to be totally re-assessed as of November, 2023, due to continued decline in live twig extension growth length and decline in live needle density over time, plus pruning damages caused by neighbor pruning of trees owned by The Rise along the west sides of the canopies of redwood specimens adjacent to the existing property boundary retaining wall. | Overall condition ratings between "dead" and "very poor". | No | +/- 100 |



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| Line Number | Description | Details | Species | Condition Ratings | Municipal Protection Status? | Total Count |
|----------------|--|---|---|----------------------|------------------------------------|----------------|
| 9 | RETENTION TREES Proposed by the project team to be retained on site, per sheet P-0602B revision date 12/4/2023. Note that all trees from matrix line 8 above "Suggested to be Removed by WLCA" are included in this count. | Will require temporary irrigation plus chain link root protection zone fencing and/or trunk buffer wraps during construction for the duration of the project. | (Tag Numbers of "Standard Trees" to be Removed, per City Tree Type Designation) #(524-535), (537-541), 544, 546, 552, 554, 558, 560, 561, (571-596), (598-604), (606-611), (613-627), (630-632), (636-668), (670-673), (675-677), 704, (706-708), 710, (712-716), (721-722), 724, 727, 729, 730, 740, (741-743), (772-803), 805, 806, 809, (811-813), (816-820), (822-833), 835, (837-839), 841, 842, (844-853), (857-870), (872-875), (1227-1233), (1235-1243). | (Various) | No | |
| 10 | West perimeter road trees in vicinity of trenching. Various tag numbers (#571 to #871, etc.) Tree disposition: Unknown until finalized building set of plans is overlaid onto tree plot sheet P-0602B to verify. | Proposed utility trenching per street plan sheet P-0406. Expect potential negative impacts to trees if utilities are not installed using pit to pit directional bore technology. | Coast redwoods, shamel ash, etc. | Various | No | 300+ |



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| Line Number | Description | Details | Species | Condition Ratings | Municipal Protection Status? | Total Count |
|----------------|---|--|---|---|------------------------------------|----------------|
| 11 | East side of east perimeter road. Various tag numbers (#518 to #570, etc.) Tree disposition: Unknown until building set of plans is available for review. | Proposed utility trenching per street plan sheet P-0406 Expect potential negative impacts to trees if utilities not installed using pit to pit directional bore technology. | Shamel ash, Chinese elm, etc. | Various | No | 50+ |
| 12 | Potential root loss to trees along east side of N. Wolfe Rd. Tree tag numbers (#430, 431, 432, 433, 434 435, 437, etc.) Note: these trees are now proposed for removal on sheet P0602B version 12/4/2023 by Olin Studio. | Proposed utility trenching per street plan sheet P-0406. Proposed communication line trench running northsouth between freeway 280 and Block 12 development (if the utility is not installed using pit to pit directional bore technology). | Giant sequoia, coast redwood, shamel ash (Note that author WLCA suggests considering some trees in this grouping for removal, such as #434 and #435 per line 5 of this matrix). | Ranges from 'very poor' to 'good'. | No | 9+ |
| 13 | Additional Information: Potential root loss along the north sides of root plates of street tree ash specimens ("southmost row") along Stevens Creek Blvd. | Proposed new building construction and related infrastructure and landscaping work encroachment into north sides of the trees' root systems (southmost row of ash trees). | Shamel ash "Street Tree" specimens newly proposed for removal, along the southmost row of trees facing Stevens Creek Blvd: #15, 17, 19, 21, 23, 29, 34, 42, 44, 46, 48, 50. These ash specimens within the southmost row were originally to be retained and protected in place per the original site plan design. Most of these are now in poor overall condition. | In order of ascending tag #: Fair, poor, poor, fair, poor, fair, poor, very poor, poor, poor, poor, poor, poor, poor, poor, poor, poor. | Yes | 12 |

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| Line Number | Description | Details | Species | Condition Ratings | Municipal Protection Status? | Total Count |
|----------------|---|--|--|----------------------|------------------------------------|----------------|
| 14 | Conceptual Landscape plan and Irrigation plan impacts to existing trees (as applicable) | Only limited impact assessment was performed by WLCA, due to the conceptual nature of the current designs shown on proposed plan sheet P-0603, etc. available as of the date of writing. | WLCA reviewed tree species proposed for use by the landscape architect Olin Studio, and offered alternatives to some species or cultivars deemed inappropriate. The planting palette is being adjusted over time. WLCA will continue to work with Olin to refine the tree species and cultivar list as applicable. WLCA also offered limited analysis of potential landscape and irrigation trenching impacts to existing trees. See section 5.0 of this report below. | | | |

2.0 Assignment & Background

Walter Levison, Consulting Arborist (WLCA) was initially retained in 2015 to tag and assess trees throughout the existing site that extends from perimeter road west to perimeter road east, and from freeway 280 to Stevens Creek Boulevard, Cupertino, California, including median trees along North Wolfe adjacent to the project site. The east boundary of the survey area was a property owned by Apple Inc. The west boundary of the survey area was a developed single family residential area. Tags in this area are tagged #1 through #875 (round-shaped tags), with median trees tagged as #1,106 through #1,125 (racetrack-shaped tags) along N. Wolfe Road. Additional trees #1,126 through #1,245 were later tagged and assessed by WLCA in 2018. The total number of site trees discussed in this tree study is **995 tree specimens within the planned project area**. Twenty (20) trees outside of the planned project area are noted in the Excel tree database left hand column as "not in plan".

A secondary tree study was also completed by WLCA, which involved tagging, assessing, and locating on a topo sheet all trees located north of the project site in a triangular lot known as 'Alternate Lot West', situated between the northwest corner of the project site and freeway 280. Trees in this area were tagged as trees #876 through #1,105, with round-shaped tags for trees #1 to #1,000, and racetrack-shaped tags for trees numbering greater than #1,000.

Twenty (20) additional North Wolfe Road median trees #1,106 through #1,125 were eventually added to the study, using racetrack-shaped tags.

Alternate Lot West trees #876 through #1,105 were removed from WLCA's tree study, as the lot on which those trees are located was purchased by a third party owner, and is no longer included in The Rise planned project area.

WLCA's initial work product consisted of an Excel tree data set in PDF format, along with digitally marked up tree location maps. The initial proposed development set of plans had not yet been developed at that time, and was not available for review.





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WLCA was retained in September 2015 to prepare a formal written arborist report that was to include the following items:

- a) Review the set of proposed plan sheets as available in September 2015. If possible, note conflicts where initial proposed utilities and construction may impact trees being retained, and discuss adjustments to the plans as applicable.
- b) Update the existing Excel tree data spreadsheet to note an "X" in removal column indicating tree to be removed.
- c) Discussion of trees to be retained and trees to be removed, including species overviews, condition ratings, etc.
- d) Note trees protected per Cupertino City Tree Ordinance being retained and removed.
- e) Note trees suggested by WLCA to be removed due to very poor condition.
- f) Note possible adjustments to the scope of construction to optimize tree survival and/or preserve important trees on the site as applicable (see also item 'a' above).
- g) Note irrigation and soil moisture deficit concerns and options.
- h) Note tree part failure risk concerns.
- Archive digital images of some important or otherwise noteworthy tree specimens and include those images in the report.
- j) Attach the updated Excel tree data charts and a master tree location basemap to the report.
- k) Prepare recommendations for transplanting on-site for significant sized trees that are expected to be removed as a result of site plan work, with new install locations to be noted by Consultant on the proposed site plan drawings. Specifications for holding trees in boxes, etc. (i.e. "box holding" recommendations for irrigation, maintenance, etc.).
- Recommendations for tree protection and maintenance based on arboriculture BMPs, with phased protection and maintenance conforming to the current proposed demolition and construction phases 1, 2, and 3.

All of the above items are included in this written report. Most of the information has been presented in matrix (table) form, for ease of reference. The WLCA tree data sheets (Excel format) are attached to this report.

2017-2023 Updates:

- WLCA reviewed the new tree disposition plan sheet P0602B, iteration date 9/15/2018, which shows trees to be retained, trees to be removed, and trees to be transplanted as small color-coded circles along with each tree's numeric tag number. This sheet is attached to this report for reference of existing tree locations.
- WLCA revisited the site on 12/8/2017 to assess all tree specimens along Stevens Creek Blvd and along North Wolfe Road to determine overall condition ratings. These ratings were added to the rightmost column of the tree data table. The data table with these updated ratings is attached to the end of this report. Due to time constraints, no trees in areas other than these two major street planting zones were reassessed.
 - One important note: Shamel ash (*Fraxinus uhdei*) undergoes an unusual Fall season leaf senescence (dieback) during which time each individual tree specimen loses a portion of its leaves. The actual loss of leaves falling to the ground may range from zero to 50% or more of an evergreen ash's tree's entire foliar canopy, and is considered a normal process as might occur on a deciduous tree species. The problem with this unique senescence in evergreen ash trees is that the variation in total loss of foliage in Fall makes it very difficult for an arborist to visually assess the tree's overall condition rating from the ground in an accurate manner. Therefore, the condition ratings determined by WLCA on 12/8/2017 for evergreen ash trees along Stevens Creek Blvd and along N. Wolfe Road are considered "approximate" due to this variability in leaf loss, since in many cases the loss of foliage on these trees appeared to be due both to normal Fall leaf senescence and to twig and branch dieback resulting from years of California drought conditions.
- WLCA revisited the site on 1/9/2018 to determine overall condition ratings for all of the evergreen tree specimens
 throughout the entire proposed project site (e.g. coast redwoods, southern magnolias, etc.). During this site visit,
 shamel ash, pears, Chinese elms, and other deciduous tree specimens were omitted from the study, given that by

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January, these trees had lost most or all of their foliage for the winter leaf senescence period. Determining accurate overall condition ratings for these deciduous trees was no longer possible by this date of survey.

- The report summary section has now been completely updated to show additional information as of June, 2019. In addition to the list of trees to be removed by the project, additional trees currently dead or in very poor overall condition are included in a separated updated list of WLCA-suggested trees to be removed. Various arborist report tables were updated or inserted into the document to account for the significant change in tree overall condition ratings observed in this most recent field assessment, and to account for electrical vault work along west perimeter road, etc.
- WLCA reviewed the 1/2/2018 iteration of conceptual utility plans, grading and drainage plans, landscape plans, etc., and commented on these throughout this report update where applicable.
- WLCA reviewed the 9/15/2018 and later November, 2018 iteration of the tree disposition sheet P-0602B prepared by Olin and Rafael Vinoly Architects. Trees #1,126 through #1,245 were tagged, assessed, and added to the Excel tree data spreadsheet, and tree removal status was updated in real time using color coding and shading of the database rows to account for removals occurring during demolition phase 1a which is on-going as of 6/14/2019. Various trees were added to the survey by WLCA at the request of Sandis Civil (project engineer). Sections of the arborist report were similarly revised, after assessment of tree disposition sheet P-0602B dated 9/15/2018. No other plan sheets were assessed during the 6/14/2019 arborist report revision.
- WLCA has been monitoring the west perimeter road temporary irrigation system setup and activation, tree fencing repairs, tree conditions (canopy twig decline, new shoot and foliar/needle growth, etc.), and underground electrical vault work along west perimeter road, in 2019, throughout "demolition period 1a".
- 3/23/2022 REPORT UPDATE: A revised tree disposition plan dated 3/23/2022 by Olin Studio was reviewed by WLCA, and attached to the end of this report. Twelve (12) additional street trees were added to the list of planned removals that will be removed due to project conflicts, which reduced the total number of trees being preserved and protected in place (PIP) by twelve (12) trees, due to building development conflicts.

| Line | Tree Tag |
|--------|----------|
| Number | Number |
| 1 | 63 |
| 2 | 65 |
| 3 | 66 |
| 4 | 67 |
| 5 | 277 |
| 6 | 284 |
| 7 | 440 |
| 8 | 441 |
| 9 | 442 |
| 10 | 466 |
| 11 | 467 |
| 12 | 1245 |

• 12/4/2023 REPORT UPDATE: A revised tree disposition plan sheet P0602B dated 12/4/2023 by Olin Studio was reviewed by WLCA, and attached to the end of this report, along with P0602A tree protection plan sheet. Olin Studio and WLCA collaborated on a revised Excel tree database that shows tree type (street tree, standard tree, development tree, transplant, and "not in plan"), plus updated 2023 tree condition ratings for all street ash trees #8 through #50 along Stevens Creek Blvd, and updated 2023 condition ratings for all street ash tree specimens within the numeric tag range #53 through #475, plus median trees #1114 through #1125. The entire report was revised as iteration 12/4/2023, and includes additional analysis of ash tree long term outlook from an arborist's perspective,



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given that the majority of street ash tree specimens along both Stevens Creek Blvd. and N. Wolfe Road were determined in Fall, 2023 to be in very poor or poor overall condition, as compared to mainly fair condition when first assessed in 2015. Tree tag numbers of trees being removed and retained (tree disposition) was completely updated, based on the Olin Studio 12/4/2023 tree disposition sheet which shows all City of Cupertino-owned street trees being removed. WLCA has been in communication with both Ms. Jennifer Chu of City of Cupertino Public Works Engineering, and Mr. Jonathan Ferrante of City of Cupertino Public Works operations, who are now the two (2) City Staff contact persons for street tree removal permitting, as of November, 2023.

3.0 Observations & Discussion

3.1 Predominant Tree Species at Property

| Tree Species | Number of individuals | Percent of total tree population of the original 895 individuals surveyed in Spring 2015 |
|--|-----------------------|--|
| Shamel ash (<i>Fraxinus uhdei</i>) | 399 | 45% |
| Coast redwood (Sequoia sempervirens) | 319 | 36% |
| Pine species (mainly <i>Pinus radiata</i> and <i>Pinus pinea</i>) | 65 (approx.) | 7% |

As seen above, the tree population percentages of coast redwood and shamel ash along the project property perimeter are far too high for a stable urban forest situation. In an ideal world, we would stratify the population out using a large number of tree genera and species to guard against pest and disease outbreaks (and abiotic issues such as drought conditions) that could potentially wipe out a large percentage of the tree population.

The existing minimal-diversity type planting was from an earlier era when the project site was originally built out and planted using mainly coast redwood and shamel ash. These trees are very heavy water users, and have been suffering for years during the continuing California drought conditions with subnormal rainfall. Supplemental very heavy irrigation on a regular basis throughout the year is crucial to keeping coast redwood and shamel ash alive and vigorous. However, the ash and redwood specimens at the site have not been receiving this level of irrigation, and are spiraling into decline and in many cases death.

At this time, the property owner is not proposing any significant alterations to the perimeter tree populations on the property, and the screening benefit of the perimeter trees will remain as long as individual trees are alive and thriving. Note also that many of these trees are not actually on the project property and are actually within a public utility right of way (personal communication, project property owner 10/23/2015).

WLCA Update 2019: +/-32% or more of the coast redwoods along West Perimeter Road and East Perimeter Road are now in "very poor" condition, and +/-10% of the coast redwoods are "dead". These trees are suggested by WLCA to be removed due to their limited usefulness in the landscape, and are noted by tree tag number in Summary Table in section 1 of this report.

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3.2 Tree Condition Studies (2019)

Overall Tree Condition Ratings for Two Main Species in Population as of June, 2019: (Not including alternative lot west)

| Tree Species | Number of individuals | Dead (as of 2019) | Very Poor (as of 2019) | Poor | Fair | Good | Excellent |
|--|-----------------------|---------------------------------------|-------------------------------------|------------|-------------|------------|-----------|
| Coast redwood | 319 | Est. 34 | Est. 102 | Est. 35 | Est. 105 | Est. 41 | 2 |
| Percent of redwood population | (100%) | Est. 10%, up from 5% in 2015 | Est. 32%, up from 16% in 2015 | Est. 11% | Est. 33% | Est. 13% | <1% |
| Shamel ash (Only the overall condition ratings of trees along Stevens Creek Blvd and along N. Wolfe Rd. updated 12/2017) | 399 | 2 | 76 | 185 | 126 | 10 | 0 |
| Percent of Shamel ash population | (100%) | <1% | 19% | 46% | 32% | 3% | 0% |

Interestingly, the above study originally showed somewhat of a bell curve form, where most of the tree individuals rated out with overall condition ratings in the middle portion of the rating range (range is from dead (0%) to excellent (90% to 100%). However, after WLCA's reassessment in 2018, the coast redwood bell curve became misshapen, with a disproportionate number of trees (roughly 63% of the total population) ending up in the "very poor" and "fair" categories. What basically occurred was that many of the trees in the "poor" category declined over the last few years of drought, and fell into the "very poor" category, thereby reducing trees remaining in the "poor" category.

If droughty conditions continue in California with subnormal natural winter period rainfall, many of these trees could continue spiraling into decline and end up with all ratings in the dead, very poor, and poor portion of the rating range, unless very heavy irrigation were to be commenced at this time and continued regularly through the entire winter.

(WLCA update 2019): In fact, we did experience continued droughty conditions through late 2018, which caused many coast redwood specimens to either newly fall into a state of "very poor" condition (i.e. drop below the threshold of 30% overall condition rating points) or newly die outright. Although a few coast redwood specimens did improve in terms of overall condition ratings, the above average rainfall that occurred in the 2016-17 water year did not seem to significantly improve the overall tree health or structural status at the project. The 2017-2018 water year was below average. Far above-average rains during the 2018-19 water year did not seem to "boost" tree vigor in more than just a handful of redwood specimens at the project.

(See section 3.3 below for WLCA update 3/23/2022 regarding drought effects vs. irrigation).



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Author's Side Note / Shamel Ash Re-assessments:

2017 Re-Assessment:

WLCA was requested to re-evaluate all shamel ash specimens proposed to be retained by the project team using tree disposition sheet P0602 iteration date 01/02/2018, along the North Wolfe Road and Stevens Creek Blvd. major view corridors. The result of this site visit was that a larger number of trees were found to exhibit overall condition ratings of between 0% and 29%. Trees with condition ratings within this numeric window are typically recommended to be removed from the landscape due to limited safe and useful life expectancy. As of 12/10/2017, WLCA added all shamel ash specimens in very poor condition (only specimens along the above-noted two street planting areas) into the "WLCA Recommends Removal" category, noted by tag number in the summary table above in this report.

It was relatively very difficult to assess the ash specimens in December 2017, due to the fact that individual ash specimens tend to hold onto their leaves in Fall/Winter at varying rates that range from 100% retention to roughly 50% retention, even though the species *Fraxinus uhdei* is generally known to laypersons as "evergreen ash". This presents a problem with visual assessment, since many trees will lose a large percentage of their foliar canopy as part of normal leaf senescence that resembles the process for deciduous trees. The tree may be termed "partial deciduous" given its tendency to lose foliage.

The species also drops a profusion of winged keys or "samaras" (the fruits of the ash tree) which fall from short stems along extended branches that appear as fruit clusters in the tree. This causes the tree to appear further denuded in Fall, and to the casual eye may look as if the tree is "dying". In fact, all of the branches that hold samaras are living stems, and are in no way related to twig dieback or other decline of the tree's health or structure. The presence of the denuded fruit cluster branches does however further complicate the visual assessment of an evergreen ash tree's status in Fall and Winter, as it creates bare patches in the canopy that appear "dead" unless the arborist assessor can identify the presence of the tiny stems present along the cluster branches from which the samara fruits disengaged.

2023 Re-assessment:

As noted above in this arborist report iteration 12/4/2023, section 1.0(G), the author again reassessed almost every single street tree ash specimen in late 2023, along the north side of Stevens Creek Blvd, and along all sides of N. Wolfe Road (east side of street, west side of street, and in the median), to determine current health (vigor) rating, structural rating, and overall condition rating of approximately (+/-) 135 total street tree shamel ash specimens. Findings include the following:

- Approximately 40% of fifty-three (53) Stevens Creek Blvd street tree shamel ash specimens are now in very poor (6% to 20%) overall condition or poor (21% to 40%) overall condition, due to chronic drought conditions, even with the property owner applying regular heavy irrigation to the trees.
- Approximately 94% of +/- eight-two (82) N. Wolfe Road street tree shamel ash specimens are now in very poor or poor condition (i.e. 40% overall condition rating or less), due to chronic drought conditions, even with the property owner applying regular heavy irrigation to the trees.

A few additional ash specimens along N. Wolfe Road were not reassessed due to having been previously approved for removal by City of Cupertino under SB35, but are assumed to exhibit similar reductions in overall condition rating with general loss of canopy vigor (health) that is expressed as loss of live twig extension growth length and loss of live foliar density.

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3.3 Drought Effects on Project Site Trees

Given the low soil moisture conditions that have been present in San Francisco Bay Area landscapes for many years now, and continued subnormal natural rainfall conditions between approximately 2011 and 2022 (with some interspersed high rainfall events), moisture available to the coast redwood and shamel ash tree root zones at the project site is very minimal during summer and fall season periods. This has resulted in chronic loss of live twig density and live foliar density in the trees, which is expressed visually as desiccated, dead patches of canopy seen in the trees, especially in the outermost, uppermost sections of the tree canopies of individual specimens along the east and west sides of west perimeter road (see images below in this report).

It is not clear whether tree vigor (new live twig and foliar growth) will be or can be boosted through either very heavy, sustained supplemental irrigation of the trees' root zones, or through natural rainfall finally occurring after the (existing) prolonged period of subnormal soil moisture. Generally, trees that have declined to an overall condition rating of poor (i.e. less than 40% overall condition rating) will not increase in vigor until very heavy irrigation is applied over an extended period of 6, 12, or even 18 months³ to the trees' entire root zone areas. Even after this type of serious irrigation regime commences and is continued for the extended period, the trees may still not respond favorably, and will continue to decline. High quality irrigation water with low ionic content needs to be available for supplemental irrigation of coast redwoods. See section 3.4 and 3.5 below for more information.



(WLCA update 3/23/2022): We have now experienced drought years through most of the individual water years within the period 2011-2022, as reported by NOAA and other government agencies. Our heavy irrigation of trees being retained at the project, using above-grade high flow type ½" diameter flood bubblers timed to emit water at a relatively high frequency and duration have boosted soil moisture to 70-100% for most trees on the site for a number of years now. This has resulted in relatively large percentage of the project site coast redwoods either stabilizing in terms of their overall condition ratings, or improving live twig extension and live needle density slowly over time. However, a similarly large percentage of the redwood specimens appear to have declined in terms of TDE, even after having been heavily irrigated year-round for multiple years via this piped over-grade water delivery system. Given that the species can still decline or possibly even die prematurely during a drought period in the Bay Area while being heavily irrigated year-round, I see this as clear evidence supporting WLCA's initial prognosis from 2015 that the existing perimeter redwood specimens need to be removed and replaced with trees such as drought-tolerant non-native oak species more suitable for long-term use at the project, with its dry summer type climate.

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³ Levison, Walter. Professional consulting experience with irrigation of coast redwoods on construction sites on South Bay and Peninsula, Bay Area locations, between 1999 and 2015.

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3.4 Moisture Deficit / Moisture Requirements

Shamel Ash and Coast Redwood Moisture Requirements

In order to keep coast redwood and shamel ash specimens from declining in live twig density, live twig extension, and live foliar density over time, a very heavy irrigation regime will need to be set in place as an over-grade no-dig type system placed over the ground throughout the open soil root zones of individual trees and groupings of these trees being retained at the project site.

Although the actual volume of supplemental water to be applied per week per coast redwood specimen varies with soil conditions, weather, solar exposure, and other issues, the following is a set of rough guidelines for water application based on the author's experience. Note that use of a heavy mulch of coarse chipper truck type wood chips lain over the ground surface in a 4 to 6 inch thick layer can significantly reduce evaporation, and thereby help reduce supplemental irrigation needs:

| Supplemental Irrigation | Per Week | Per Month, Year-Round (See Tier 4 for Winter Rain Periods) | |
|--|--|---|---|
| Tier 1 "Optimal" for an individual coast redwood. | Suggest 1x/week irrigation event. | 20 gallons per each 1 inch of trunk diameter. | Based on a standard set forth by another consulting arborist |
| Tier 2 Moderate level (OK for trees with grafted root systems, etc.) | Suggest 1x/week irrigation event. | 10 gallons per each 1 inch of trunk diameter. | |
| Tier 3 During water use restriction periods. | Suggest 1x/week irrigation event. | 5 gallons per each 1 inch of trunk diameter. | |
| Tier 4 During Winter Storms (Regular heavy rain events) | | Temporary shutoff of irrigation system OK between December and March, depending on intensity of and frequency of rain events. | |

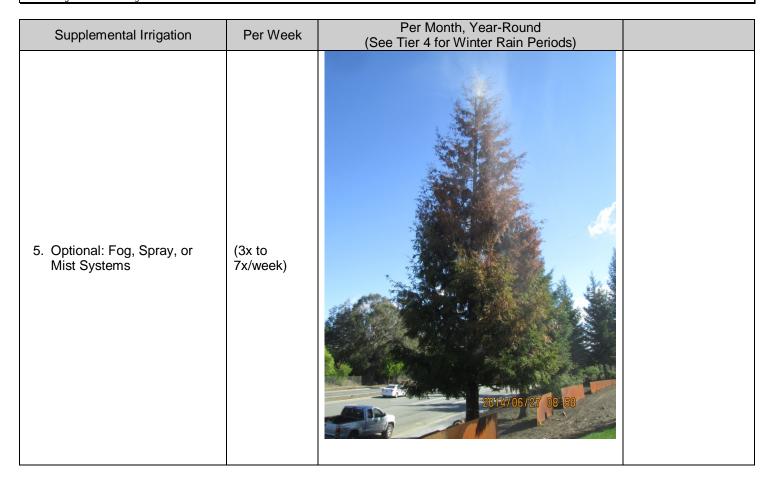


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WLCA generally recommends that irrigation events occur once weekly (1x/week) throughout the entire "open soil sections of the root zones" of the trees, which may be as large as 25 feet radius or more in some cases. The trees' root zone areas need to be allowed to "dry down" as water percolates through the uppermost few feet of the soil profile, and is then used by the trees (transpired through the tree's own structural piping system) or evaporates into the atmosphere (evaporation from open soil). As noted above in this section, use of mulch is beneficial if a layer 4 inches thick can be placed over the open soil root zone areas of the trees, between approximately 1 foot out and 25 feet out from the trunks of the trees.

Optionally, we could install some type of fogging system to augment moisture uptake by the trees by adding fog water to some lower canopy or mid canopy locations. Redwoods in their natural range along the Northern California coast and Oregon coast forests derive a significant percentage of their water moisture through direct acquisition of fog water through their needles⁴. Thus, use of a fogging system could potentially be of great benefit to the trees, if such as system could be affixed to locations near canopies at varying elevations above grade.

Above right is an image of an actual installed aerial misting system in use on local peninsula Bay Area project redwood specimen. These systems would require a substantial initial investment in piping, mist-heads, and labor to install, but have been beneficial in terms of increasing tree survival during hot or windy periods, according to other arborists and nurserymen I spoke with in 2015.

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⁴ Burgess SSO, Dawson TE (2004). The Contribution of Fog to the Water Relations of Sequoia sempervirens (D. Don): Foliar Uptake and Prevention of Dehydration. Plant Cell Environs. 27:1023-1034.

3.5 Ion Content in Recycled Water / Standards

Many municipalities such as San Jose and Palo Alto are using recycled water as a regular component of their City parks irrigation regime. However, this does come with known drawbacks. Coast redwoods are known to be sensitive to ion concentrations in soil water per the text referenced below⁵. The text notes that coast redwood has low tolerance of boron ion in recycled water. Ion sensitivity of coast redwood as related to other ions such as sodium, chloride, or ammonium was not specifically noted in the text. However, per the author's conversations with numerous city arborists and consulting arborists in the Bay Area, coast redwood appears to have low tolerance of specific ionic content in water in addition to boron ion.

The following table derived from information in the below-referenced text provides some guidelines for total ion content of various ions in recycled water at levels that could be deemed "safe" for trees with low tolerance (high ion sensitivity), although this is only a guideline, and was published more than 10 years ago:

| Irrigation Water Ion | Type of Measurement | Content Range Considered "Safe" for Landscape Irrigation | Unsafe for Tree Species with Low Tolerance to Stated Ions | |
|---------------------------------------|------------------------------|--|---|--|
| TDS Total Dissolved Solids | Mg/I | <450 | 450 to 2,000 | |
| Salinity | Mmhos/cm | Mmhos/cm <0.7 | | |
| Boron | Mg/I | <0.5 | 0.5 to 1.0 | |
| Chloride (surface bubbler irrigation) | [\(\lambda \) \(\lambda \) | | 140 to 300 | |
| Chloride (sprinkler irrigation) | [V/a/I | | >100 | |
| Sodium (surface bubbler irrigation) | VAD | | 3 to 9 | |
| Sodium (sprinkler irrigation) Mg/I | | <70 | >70 | |

Salinity tolerance of various tree species proposed in project tree palette by the landscape architect is noted in the reference shown in this report as citation #3. WLCA is in communication with the landscape architect staff to discuss salinity tolerance issues.

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⁵ Costello, Perry, Matheny, Henry, and Geisel (2003). *Abiotic Disorders of Landscape Plants: A Diagnostic Guide*. UC ANR Publication 3420. ANR Communications Services. Oakland, California.



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EXISTING REDWOODS

The new project does not propose to use recycled water for irrigation of the existing redwoods being retained as perimeter screening (personal communication 10/23/2015, property owner). Therefore, the ionic content of irrigation water appears (at the time of writing) to be an issue with new proposed tree plantings only.

USE OF RECYCLED WATER BLEND AND FLUSHING SEQUENCES

To reduce ion content in irrigation water to acceptable levels per the above matrix guidelines, recycled water with high ion content can be blended with standard municipal drinking water prior to running it through irrigation systems for surface application to trees. Per the property owner, this blending will be performed seasonally during non water-restriction periods in order to comply with local regulations regarding potable water use for landscapes during drought periods.

Another "trick" that can be performed to reduce ionic content remaining in the root zones of trees is to use recycled water for a number of irrigation cycles (e.g. 4 to 9 cycles), then "flush" the root zones by using a 5th or 10th irrigation cycle of 100% municipal drinking water (anecdotal reference). This would require that a very detailed record of irrigation be maintained by a groundsperson on site, to record exactly when recycled water and drinking water was applied to very specific landscape zones. Both recycled water and drinking water would need to be available side by side as irrigation system inputs with manual levers that would be operated by the groundsperson.

OAK TREES BEING INSTALLED

Per discussions with arborist Dave Muffly consulting arborist, an expert in oak tree selection and cultivation, oak species being installed at the project should be provided with municipal drinking water as the irrigation water source, without any blending with recycled water. This is recommended to avoid potential problems with ion sensitivity by the oaks. Mr. Muffly notes that an adjacent project across freeway 280 does <u>not</u> use recycled water for irrigation of the oaks (this project is also within the jurisdiction of City of Cupertino, and has recycled water piping that will be used for irrigation of non-oak landscape zones).

As regards the project roof planting area where many oak species were originally planned to be installed, we would need to develop a special dual piping system which will allow for recycled water and standard drinking water sources to be piped up separately. This would allow the two water sources to be applied in an alternating manner and/or blended in a tank prior to being applied to sensitive species such as the oaks and fruit bearing orchard trees, to reduce the overall ionic content being applied to the landscape over time.

RECYCLED WATER EFFECTS ON FRUIT-BEARING ORCHARD TREES

Per the text referenced in citation #3 in this report, fruit-bearing tree species originally proposed by the team for the rooftop orchard which were to be for human consumption are noted in the text as exhibiting "low" relative tolerance to ionic content in recycled water used for irrigation. Given that fruit bearing orchard trees generally require heavy irrigation, this is of concern if recycled water is going to be used on the project's greenroof where the orchard areas will be located. As noted above in this section of the report, blending recycled water with municipal drinking water can bring down ionic concentration to levels below the safe thresholds noted above in the matrix.

Flushing the tree root zones by use of 100% drinking water on a periodic basis may also be a viable method of reducing ionic concentration buildup in the root zones of the trees, such as the example WLCA noted of 4 to 9 irrigation cycles using recycled water, followed by a 5th or a 10th irrigation cycle using 100% municipal drinking water (anecdotal reference).

Per the author's recent conversation with a Northern California soil scientist who specializes in orchard soils, the inability for fruit trees such as cherry, apricot and apple to tolerate ion content in recycled water used for irrigation appears to be verified. Blending and/or other dilution is warranted.

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Again, use of a dual piping system to bring up both standard drinking water and recycled water sources to the greenroof may be able to solve the problem of ionic content in recycled water being applied to the orchard areas, as it will allow us to blend the two sources of water and/or apply them to the landscape in an alternating manner to flush salts through the soil.

WLCA suspects that over time, municipal recycled water may become of increasingly higher quality in terms of ionic content being reduced to below the low-tolerance sensitivity threshold of 0.7 Mmhos/cm salinity. Refer to the ionic content table 3.5 above for more information.

SPRING 2018 / NEW INFORMATION ON LOCAL SOURCE OF HIGH QUALITY RECYCLED WATER FOR LANDSCAPE PLANT USE

WLCA spoke with Mr. Lyle Frohman of San Jose Recycled Water Treatment Plant in December, 2017 regarding the newest and best recycled water "blend" now available as a retail product for sale to certain municipalities for use as surface landscape irrigation⁶. Mr. Frohman detailed the following information:

a. The Santa Clara Valley Water District's new facility came online in 2014, called the "Silicon Valley Advanced Water Purification Center" (SVAWPC). This 72 million dollar facility treats wastewater to the tertiary level, and is thus actually potable (theoretically drinkable), with extremely low levels of TDS (total dissolved solids).

South Bay recycled water from the new plant is then "blended" with City of San Jose Recycled Water Treatment Plant's recycled water of higher ionic content, thereby achieving an overall (average) total dissolved solids (TDS) of 490 parts per million⁷: below the treatment target threshold of 500 TDS for use as surface landscape irrigation water.

This recycled water "blend" is then sold wholesale to four customers:

- i. City of Milpitas.
- ii. City of Santa Clara.
- iii. City of San Jose.
- iv. San Jose Water Company.

SBWR City of San José Environmental Services Dept. Media contact: Jennie Loft (408) 535-8554

RECYCLED WATER RETAILERS City of Milpitas Water & Sewer

CONTACTS

Public Works Department
1265 North Milpitas Boulevard, Milpitas, CA 95035
Phone: (408) 586-2600 www.ci.milpitas.ca.gov

City of Santa Clara Water & Sewer Utility 1500 Warbutron Avenue, Santa Clara, CA 95050

Phone: (408) 615-2000 www.santaclaraca.gov

San Jose Municipal Water System - Recycled Water Engineering & Operations

3035 Tuers Rd., San José, CA 95121 Phone: (408) 535-3500 www.sanjoseca.gov

San Jose Water Company

110 W. Taylor St., San José, CA 95110 Phone: (408) 279-7900 www.sjwater.com

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These customers then sell the water blend as a retail product to commercial customers located within their jurisdictions. These four entities can be contacted to determine if the recycled water blend is available for purchase by the project for use as landscape irrigation water within City of Cupertino jurisdictional area (see contact details above right). It is assumed that commercial clients such as the project can now purchase high quality recycled water from the SVAWPC facility via this route as of 2023 (not verified).

⁶ It is not known whether this special recycled water "blend" is available to City of Cupertino area customers such as The Rise, as of 2023. This original arborist report iteration was prepared in 2015, at which time there was no foreseeable available high quality recycled water that could meet the above standard for total dissolved solids (TDS). This is a subject for further research by the team.

Average TDS per 2017 City of San Jose water recycled water quality report at: sanjose.gov/recycled water/retail customer information / water quality reports

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Use of the South Bay blended recycled water which tests at less than 500ppm total dissolved solids means that we would (theoretically) no longer have to worry about landscape tree or plant sensitivity to ionic content in the water, and <u>no</u> additional dilution/blending would be needed prior to our release of the water onto any greenroof and/or street level planting areas.

3.6 Effects of Proposed New Utility Plan on Woody Roots

The negative effect of proposed new utility trenching per project sheet P-0406 iteration January, 2018 on existing trees to be retained could be significant to severe, depending on the actual final alignments of these utility trenches. The current plan sheet shows utilities as conceptual routing only, and it is therefore difficult to determine actual impacts to specific trees. However, WLCA did note various groupings of trees and expected (potential) impacts to those trees from utility trenching, in the summary table 1.0, lines 9, 10, and 11, above in this report.

Typical woody lateral root growth extends from trees at least 3X to 5X the canopy dripline radius per previously published arboriculture science texts. This growth is generally present between grade elevation (i.e. soil surface) and down to approximately 24 inches below



grade in our western Bay Area urban clay-based soils, though in some cases, older redwoods and oaks can achieve large diameter woody root growth at depths as far as 50 to 60 inches below grade⁸

For tree stability maintenance, it is acceptable to sever roots at locations within 25 to 30 feet of large diameter coast redwoods and shamel ash. However, utility trenching within 25 feet of those trees may cause severe negative impacts to the trees' health and structural condition, resulting in premature decline and/or death. In those cases where utilities need to be routed within 25 feet of large trees being retained, WLCA suggests using pit to pit directional bore technology whereby conduit is pushed and pulled **below** the root systems of trees being retained, thereby allowing for almost complete root preservation when done correctly. See image of pit to pit directional bore in action below on one of my projects in the Bay Area. In this particular case, the bore started above ground, and ended at a pit. Typical method would be to start and end at a small dug pit.

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⁸ Levison, Walter. Professional experience on Bay Area construction sites from 1999 to 2023.

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4.0 Risk of Failure / Tree Risk Assessment Qualified (TRAQ)

Prior to the newer International Society of Arboriculture (ISA) TRAQ system (tree risk assessment qualified) coming into place as the new international standard for tree part and whole tree failure risk assessment, arborist consultants referred to an older numeric system of 12 points which consisted of:

(Outdated Rating System)

- Failure potential of identified part (1 to 4 points)
- Size of part (1 to 4 points)
- Target rating (1 to 4 points)

The final numeric "hazard rating" derived from this system ranged from 3 to 12 points⁹.

The newer system is based on alpha-type ratings, and requires the tree risk assessor to attend a rigorous training class sponsored by the ISA, after which the assessor takes a final exam. Assessors that pass the final exam are then given the title "tree risk assessment qualified", after which time they are allowed to use the published system and its components and prepare information on tree risk in written reports. Qualified tree risk assessors must retake the qualification course and exam every few years to renew status as tree risk assessment qualified.

The basic TRAQ process has been amalgamated into a matrix below (next page) for readers of this report.

Note that TRAQ risk ratings are derived after consideration of various different failure modes (e.g. branch, scaffold limb, mainstem, whole tree) and different targets such as vehicles, pedestrians, bicyclists, residential structures, commercial buildings, etc. Target frequency and duration at a specific target zone, such as cars and pedestrians stopped at a traffic light, are considered when determining target "occupancy", in order to determine risk of tree part failure and impact of that tree or tree part onto that specific target at that moment when the target is occupying the target zone radius.

^º Duster, Julian et. al. 2013. *Tree Risk Assessment Manual*. International Society of Arboriculture, Champaign, Illinois.

⁹ Matheny, Nelda and Clark, James. 1994. *Evaluation of Hazard Trees in Urban Areas. 2nd edition*. International Society of Arboriculture, Urbana, Illinois.



TRAQ Protocol Amalgamation

| Likelihood of Failure | Likelihood of Impacting Target | | | | |
|-----------------------|--------------------------------|--------------------|--------------------|--------------------|--|
| | Very Low | Low | Medium | High | |
| Imminent | Unlikely | Somewhat Likely | Likely | Very Likely | |
| Probable | Unlikely | Unlikely | Somewhat Likely | Likely | |
| Possible | Unlikely | Unlikely | Unlikely | Somewhat Likely | |
| Improbable | Unlikely | Unlikely | Unlikely | Unlikely | |

Improbable: The tree or tree part is not likely to fail during normal weather conditions, and may not fail in extreme weather conditions within the specified time frame.

Possible: Failure may be expected in extreme weather conditions, but it is unlikely during normal weather conditions within the specified time frame.

Probable: Failure may be expected under normal weather conditions within the specified time frame.

Imminent: Failure has started or is most likely to occur in the near future, even if there is no significant wind or increased load. This is an infrequent occurrence for a tree risk assessor to encounter, and may require immediate action to protect people from harm. The imminent category overrides the stated time frame.

Very Low: Remote chance that failure will impact target. Rarely used site fully exposed; occassionally used site partially protected. E.g. A rarely used trail or trailhead in a rural area, or an occassionally used area that has some protection due to other trees between the failure and the target.

Low: Not likely that failure will impact target (slight chance). Occassionally used area fully exposed; frequently used area partially exposed; constant target well protected. E.g. A little-used service road next to the tree, or a frequently used street with a street tree between the assessed tree and the street.

Medium: The failed tree or tree part could impact the target, but is not expected to do so. Frequently used area fully exposed on one side of tree; constantly occupied area partially protected. E.g. A suburban street next to street tree, or a house partially protected by an intermediate tree.

High: Likely that the failure will contact the target. A fixed target is fully exposed. E.g. Near a high-use road or walkway with an adjacent street tree.

| Likelihood of Failure | Consequences | | | | |
|-----------------------|--------------|----------|-------------|----------|--|
| and Impact | Negligible | Minor | Significant | Severe | |
| Very Likely | Low | Moderate | High | Extreme | |
| Likely | Low | Low | Moderate | High | |
| Somewhat Likely | Low | Low | Low | Moderate | |
| Unlikely | Low | Low | Low | Low | |

Negligible: low value damage or disruption, no personal injury.

Minor: low to moderate damage, small disruptions to traffic or communication lines, or very minor personal injury.

Significant: moderate to high value damage, considerable disruption, or personal injury.

Severe: high value damage, major disruption, severe personal injury or death.

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Approximately 714 trees at the project site are proposed to be removed from various sections of the existing property, and 100+ additional trees are suggested by WLCA to be removed due to very poor overall condition or structural and/or health issues that are unmitigable, for a total of approximately 800+ (potential) removals out of 995 trees.

The project team proposes to retain or transplant approximately +/-281 trees on site, assuming that most of the 100+ trees in very poor condition proposed to be removed by the author will simply remain in the landscape as-is. This tree grouping consists mainly of coast redwoods and shamel ash, along the perimeters of the site that are vulnerable to proposed construction damages in terms of both subgrade impacts to roots from utility conduit and pipe trenching, soil compaction, etc. and above-grade physical impacts to the trunk tissues and canopy live wood and foliage.

Use of WLCA and/or other arborists as construction period tree monitors will help minimize risk of tree damages that could increase risk of whole tree and tree part failure and impact to targets.

Designing around trees to avoid deep excavation, trenching, grading, construction, and other work within 20 horizontal feet of trunk edges can go a long way toward reducing impacts to the trees being retained, and reducing risk of tree failure and impact to targets.

Given the existing issue of soil moisture deficit (i.e. "drought stress") and lack of adequate irrigation to boost soil moisture within the root zones of trees being retained, WLCA expects that many of the trees to remain may actual become moderate risk or high risk specimens over time due to their premature decline in terms of loss of live twig density. As an example of our current risk exposure and future risk of tree failure and impact to targets as related to irrigation, WLCA offers the following sample risk assessment of a typical coast redwood along the west perimeter road:

SAMPLE RISK ASSESSMENT FOR A COAST REDWOOD TO REMAIN AT THE PROJECT

| Typical coast redwood specimen / Mode of Failure | Location | Condition (Average existing) | Likelihood of failure | Likelihood of impacting target pedestrians and cars | Likelihood of failure and impact | Consequences | Risk of Failure and Impact (Existing) |
|---|--|---|--|---|--|--------------|---|
| #772 to #871 Failure Mode: Branch | West side of west perimeter road | Fair | Possible | High | Somewhat Likely | Significant | Low |
| Typical coast redwood specimen / Mode of Failure | Location | Condition (Future estimated) | Likelihood of failure (Future est.) | Likelihood of impacting target pedestrians and cars | Likelihood of failure and impact | Consequences | Risk of Failure and Impact (Future est.) |
| #772 to #871 Failure Mode: Whole Tree | West side of west perimeter road | Very Poor (If trees not heavily irrigated year-round) | Probable | High | Likely | Severe | High |

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EXISTING "ELEVATED RISK" TYPE TREES

Although outside of the initial scope of WLCA's tree assessment assignment, it is noteworthy that some existing trees exhibiting significant lean off from vertical, girdling roots, and/or woody buttress roots severed on one or more side of the root plate during landscape irrigation pipe trenching and/or sidewalk replacement could be categorized as "elevated risk" type trees that currently rate out as moderate or high risk of failure and impact to target. These include trees proposed by the project team to be retained. The author has suggested that over 100 trees be removed due to very poor overall condition ratings, as noted in the summary table above in this report. Trees in very poor condition often exhibit risk factors that increase risk of stem failure and impact with ground targets, such as significant reduction in live current season twig extension, and reduction in live needle density and live twig density.

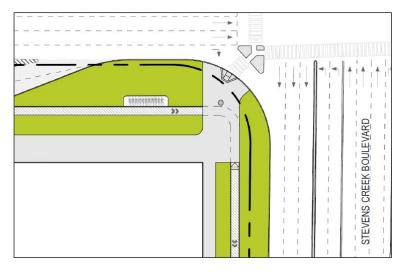
There may be many additional trees that become "elevated risk" specimens due to root loss, root damage, and continued soil moisture deficit, during the actual construction of phases 1, 2, and 3 at the project over time. Use of heavy irrigation at the site may be very beneficial in the long run in terms of reducing dieback and lengthening expected useful lifespan of the trees by providing good soil moisture to trees being retained. However, the project team has <u>not</u> seen a broad reaching increase in coast redwood vigor (health) indicators such as twig and needle density since heavy regular irrigation commenced along west perimeter road, for instance, circa 2018.

5.0 Landscape & Irrigation Pipe Installation Concerns

Demolition of Existing Planters / Concerns:

Demolition of existing curbs, planting areas, asphalt parking stall surface materials, etc. to make way for new landscaping may cause significant or severe damage to the below ground portions of trees being retained such as shamel ash at the southwest end of the site along the south boundary of the former Sears parking lot (see sample blowup at right, showing proposed planting plan, street level, sheet P-0605, January, 2018 iteration).

WLCA's main concern in areas such as this involves demolition crew activities during removal of surface hardscape and deep curbs, which may be comingled with existing woody tree root systems. When pulling out the curbs and hardscape piece by piece, these roots may become tangled with the machinery bucket teeth and be pulled, ripped, or otherwise destroyed or



damaged in the process. Therefore, an arborist monitor is suggested during demolition of any material within approximately 20 feet of a tree to be retained. As noted above in this report, we know that woody tree roots can extend laterally as far as 3x to 5x the canopy dripline distance from the trunk edge, which means that a 20 foot radius canopy tree may theoretically have roots extending as far as 60 to 100 feet radius out from trunk, even under asphalt, if there are no physical impediments to growth extension such as deep curbs or deep foundation footings.

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Irrigation Pipe Trenching / Concerns:

New irrigation pipe trenching will need to be performed in a manner that allows for maximum lateral woody root retention when within 20 horizontal feet of trees being retained. Toward this end, we will need to modify the standard (typ.) municipal code 18 inch depth of cover spec detail used in most jurisdictions for schedule 40 PVC piping, and instead use one of the following options:

a. Option 1: "No Dig".

This irrigation type uses flexible $\frac{1}{2}$ " diameter tubing that starts at a PVC riser at 20 feet or farther from a tree trunk of a tree being retained, and proceeds to snake over the ground to locations within 20 feet of a trunk of an existing tree where irrigation is needed. Bubblers are either affixed to the tubing itself, or to offshoot $\frac{1}{4}$ " diameter tubing with bubblers. There is also emitter line that is available in $\frac{1}{2}$ " diameter, with built in bubblers, though these tend to clog easily.

The no-dig option is optimal in terms of protecting lateral tree roots extending out from existing trees. However, vandalism is always a problem. The tubing can be buried slightly by covering it with a 4 inch

thick layer of wood chip mulch to avoid some vandalism, but further measures may need to be taken to keep the tubing flush with the soil surface, such as pinning down the tubing with professional grade steel landscape U-pins, etc. See image at right.



Use a modified specification such as a setup where a maximum of six (6) inches of soil cover is specified as the maximum allowable vertical space between top of newly installed PVC irrigation pipe and original soil grade elevations, within 20 feet of a tree trunk. Below is a sample specification side cut detail showing this "shallow cut" type setup that was used for a recent project where new landscaping was to be installed within 20 feet of valuable cedar specimens being retained in Palo Alto, California.

FINISH GRADE CURB OR PAVING EDGE CLEAN BACKFILL SOIL COMPACTED TO MATCH NATIVE SURROUNDING SOIL NON-PRESSURE LATERAL LINE 2*CLEAN SAND UNDER IRRIGATION

c. Option 3: UV-Resistant PVC Pipe:

Use a UV-resistant type flexible PVC pipe that can be laid directly over-grade in sunlight. This type of piping is typically the Salco brand or Jain brand flexible tubing "1/2 inch" diameter pipe that is already in use on the project site by the property owner for our innovative temporary irrigation system which supplies heavy water volume via high flow type ½" diameter flood bubblers on an AC timer operated system. A digital image of this system is included below for reference.

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Above: Salco brand heavy duty UV-resistant flexible PVC irrigation tubing (1/2" diameter), with $\frac{1}{2}$ " diameter flood bubblers providing heavy flood flow when activated. This system is currently in use along our west perimeter road trees as temporary over-grade irrigation. The nice thing about this system is that it can be used for temporary and for permanent irrigation systems laid directly over-grade, due to its heavy duty thick-walled construction, and UV resistance rating. Standard schedule 40 PVC components (i.e. the white components) can be solvent-welded (cold blue glued) to the flex pipe using standard PVC blue glue.



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6.0 Tree Transplant Options

Trees currently proposed by the project team for "discretionary transplant" include six (6) protected-size ¹¹ California sycamore specimens protected by City tree ordinance **#414**, **415**, **416**, **260**, **261**, **and #262**. These are larger trees, some of which exhibit defects such as mainstem lean off from vertical, and/or lopsided canopy form.

Tree #414 will be removed during highway ramp related work (per project team discussion).

The trees were originally in "fair" overall condition, except for tree #262 which was in "good" overall condition as of 2015 initial survey by WLCA. Typically, trees rated in "fair" condition are <u>not</u> good candidates for transplant.

Transplanting, depending on whether a tree is immediately moved and installed at another location, or is boxed up and held above ground with temporary irrigation for a number of months or years prior to permanent reinstallation at the transplant site, can cost on the order of \$5,000 to \$20,000 or more per tree for larger trees (e.g. a 15 inch diameter coast live oak). Thus, the costs of transplant are generally infeasible in terms of the cost of transplant versus appraised dollar values of the trees.

Typically, smaller diameter trees such as those 10 inches trunk diameter or less, in good overall condition (i.e. 70% overall condition rating or better), with upright, symmetrical branch and limb architecture are the best candidates for transplant.

Larger diameter trees, older trees, trees in poor or fair condition, and specimens with asymmetrical root systems, sloping root systems on a non-level slope, and those which exhibit asymmetrical above-ground branch architecture, are for the most part <u>not</u> good transplant candidates.

Given these conditions, the survivability rate of the proposed six (6) transplants noted above may be 25% to 45% at best.

As of 2023:

- The sycamore cluster of trees #260, 261, 262 was transplanted, and has been provided with heavy irrigation and wood chip mulch. The trees are performing poorly, with severe spring anthracose fungus infection of the foliage which knocks out the initial flush of spring growth. Once the trees finally respond again with a secondary flush of new foliar growth in early summer, the summer period powdery mildew fungus issue knocks out the second flush of new foliage growth, reducing the trees' overall vigor and ability to lay down new "shells" of yearly ring wood growth. It is not clear whether the trees will survive over the long term. Severe wind storms in early 2023 caused stem failures in the trees, further reducing their viability by removing precious wood from the limited canopy branch architecture.
- The Cupertino planning division requirement that trees #67 (i.e. tree tag #69), 70, 97, 98, and #99 be transplanted was taken into account by the project team. Environmental Design, the company which transplanted the sycamore cluster described above, also dug out these five (5) holly oaks and transplanted them into wooden boxes, which were then moved to the northeast corner of the site at a holding yard (older parking lot) where the team has been providing the trees with regular irrigation water.

WLCA provided the team with a transplant standards report that included best management practices (BMP) to guide the transplant effort.

WLCA has been monitoring the irrigation status of both the sycamore cluster and the boxed holly oaks, on a 1x/month basis. Soil moisture has been very good in all cases, though there has been significant live twig and foliar dieback throughout the uppermost canopy elevations of the two holly oaks being stored at the far north end

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¹¹ Per City of Cupertino tree ordinance.

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of the holding area. It is still not clear as to the cause of this dieback. It may be a combination of severe winter weather, severe loss of root mass during the initial transplant rootball dig-out process, excess water/slow drainage due to clay urban soil in the rootball, and/or other issues.

In November, 2023, WLCA installed multiple rootball moisture monitoring tubes using 3 inch diameter PVC pipes set vertically in the holly oak transplant boxes, so that a dry wooden stick or dowel can be inserted into the tubes during each monthly tree inspection event, to verify that there is no standing water or muddy mucky condition inside the tree rootballs. The rootballs should be allowed to periodically dry down, and then be saturated thoroughly using high-flow type flood bubbler or netafim emitter line irrigation water delivery. The root systems of the transplants inside the boxes need to be monitored to prevent underwatering and overwatering, as both can cause decline or death of the trees.

7.0 Assumptions and Limiting Conditions

Any legal description provided to the consultant/appraiser is assumed to be correct. Any titles and ownership to any property are assumed to be good and marketable. No responsibility is assumed for matters legal in character. Any and all property is appraised and evaluated as through free and clean, under responsible ownership and competent management.

It is assumed that any property is not in violation of any applicable codes, ordinance, statutes, or other government regulations.

Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however, the consultant/appraiser can neither guarantee nor be responsible for the accuracy of information provided by others.

The consultant/appraiser shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule and contract of engagement.

Unless required by law otherwise, the possession of this report or a copy thereof does not imply right of publication or use for any other purpose by any other than the person to whom it is addressed, without the prior expressed written or verbal consent of the consultant/appraiser.

Unless required by law otherwise, neither all nor any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through advertising, public relations, news, sales, or other media, without the prior expressed conclusions, identity of the consultant/appraiser, or any reference to any professional society or institute or to any initiated designation conferred upon the consultant/appraiser as stated in his gualifications.

This report and any values expressed herein represent the opinion of the consultant/appraiser, and the consultant's/appraiser's fee is in no way contingent upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.

Sketches, drawings, and photographs in this report, being intended for visual aids, are not necessarily to scale and should not be construed as engineering or architectural reports or surveys unless expressed otherwise. The reproduction of any information generated by engineers, architects, or other consultants on any sketches, drawings, or photographs is for the express purpose of coordination and ease of reference only. Inclusion of said information on any drawings or other documents does not constitute a representation by Walter Levison to the sufficiency or accuracy of said information.



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Unless expressed otherwise:

information contained in this report covers only those items that were examined and reflects the conditions of those items at the time of inspection; and the inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the plants or property in question may not arise in the future.

Loss or alteration of any part of this report invalidates the entire report.

Arborist Disclosure Statement.

Arborists are tree specialists who use their education, knowledge, training, and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Tree are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborist cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like any medicine, cannot be guaranteed.

Treatment, pruning, and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the arborist. An arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate the trees.

8.0 Certification

I hereby certify that all the statements of fact in this report are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Walter Levison, Consulting Arborist

DIGITAL BADGES (LIVE LINKS):

ISA CERTIFIED ARBORIST CREDENTIAL:

https://certificates.isa-arbor.com/f1918723-df46-48cc-ace2-c12625530fec?record_view=true

ISA TREE RISK ASSESSMENT QUALIFIED (TRAQ):

https://certificates.isa-arbor.com/d180515f-ab75-440b-9c66-106005e3cf10?record_view=true#gs.hpb30w

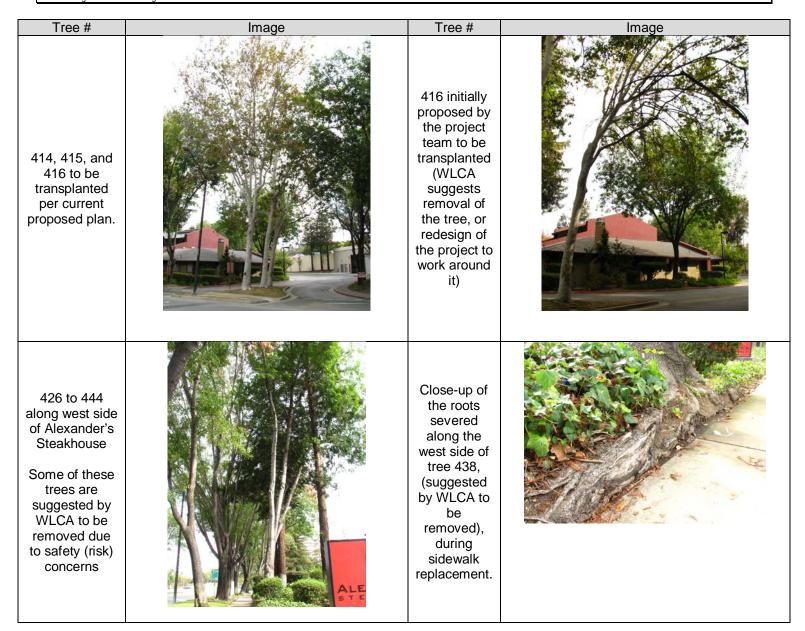


9.0 Digital Images Archived 2015 Onward (WLCA)

| Tree # | Image | Tree # | Image |
|--|-------|--|-------|
| 285 to 289 to be removed, looking northeast | | 277 to 284, looking north | |
| 261 and 262 to be transplanted, looking south | | Sycamore 260 initially proposed by team to be transplanted. WLCA suggests removal of tree, or redesign the plan to work around it. | |



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|--|-------------------------|---|----------------------------------|
| Tree # | Image | Tree # | Image |
| Sidewalk heave (vertical displacement) along the east side of tree 431 to be retained. Infrastructure such as this with roots likely travelling under the hardscape should be left in-situ instead of being removed (if possible), since severe root loss could occur if the walk were rebuilt. Use diamond grinding to level. | | Redwoods 423, 424, 425 to be removed at the steakhouse parking lot. | |
| Italian stone pines in JC Penny parking Iot, looking south. | | Example of redwoods and ash specimens 332, 333, and 335 in very poor condition due to soil moisture deficit, at the JC Penny parking lot. | |

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Tree # **Image** Tree # **Image** Looking southward along Perimeter Road East. Chinese elms and other Trees 338 to screening 358 to be trees 522 to removed along 541 are the east side of shown in this the JC Penny image, and parking lot. will be retained along the roadway. The property behind the trees is owned by Apple, Inc. In contrast to dead redwoods Redwoods 500, 501, 500, 501, and and 502 502 are dead shown in the in the image at left, southeast redwoods corner of the 505 and 510 JC Penny at right are parking lot in decent area. These condition trees are just 30 or 40 planned to be feet west. removed. The trees are to be removed.

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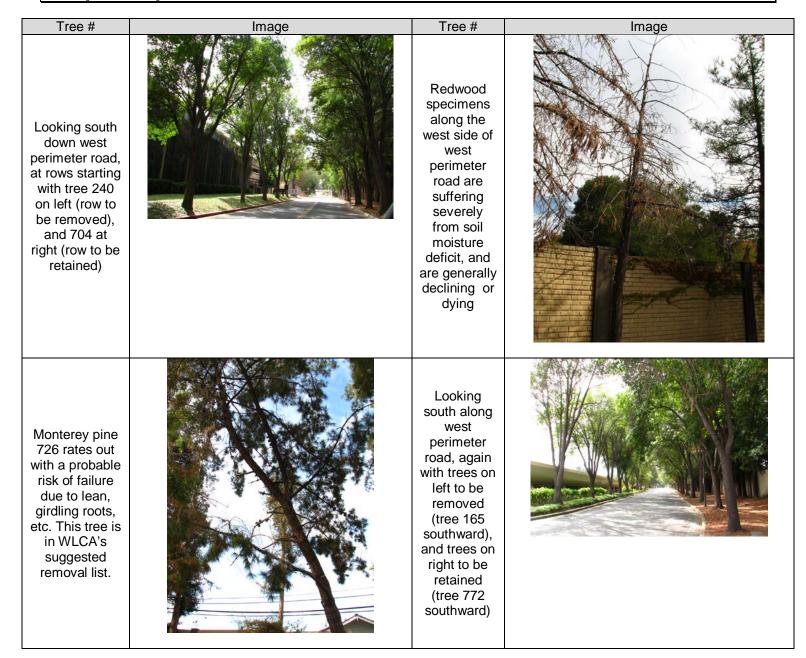
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| Tree # | Image | Tree # | Image |
|--|-------|--|-------|
| Shamel ash and redwoods 396 to 404 to be removed at the west side of JC Penny parking lot | | Shamel ash 452 to 457, most of which are to be removed from the east side of N. Wolfe Rd. | |
| Close-up of tree 267 to be removed, which exhibits a severe girdling root issue due to planting strip width which severely restricted normal lateral root extension from the trunk | | Grove of redwoods 204 to 218, most of which are to be removed just west of Dynasty Restaurant. | |

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| Tree # | Image | Tree # | Image |
|---|-------|--------|--|
| The dense screen along the west side of west perimeter road as shown here near tree 771 is in danger of dying due to soil moisture deficit. | | | |
| Replacement of these high | | | Looking south along west perimeter road. |
| water-use trees with drought tolerant evergreen species is a | | | The trees at right are trees 752 southward, and 852 southward, and are currently proposed to be retained. |
| viable option. | | | Trees along the left side (east side) of west perimeter road are to be removed. |
| Shamel ash trees 8 and 9 to be removed at the southwest corner of the project site. Note curb and asphalt displacement from root growth. When this hardscape | | | Looking east at shamel ash specimens 9 |
| is removed and replaced near a tree, severe root loss and root damage occurs, resulting in tree decline. | | | through 36, many of which are to be retained along this south border of the site. Again, removal of or alteration of existing curb and asphalt materials could cause severe root damage to these already drought-stressed specimens, resulting in further tree decline or death. |

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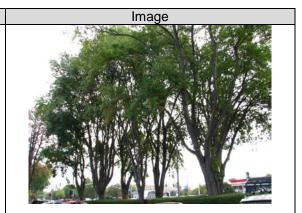
Looking southeast at shamel ash 23 through 35, many of which are proposed to be retained.

Tree #



R to L:
Looking
southeast at
shamel ash
42 through
50 to be
retained at
the
southeast
property
corner.

Tree #



Monterey pine
51 at the
southeast
corner of the
project site.
This tree was a
high risk of
failure and
impact to site
users, and was
removed from
the landscape
for safety
purposes.



Looking north at shamel ash 55, 57, 59, 61, 63, 65 to be retained along the west side of North Wolfe Road.



Southern magnolias 1106, 1107, 1108 proposed by the project team to be removed from the median on North Wolfe Road, are in decline due to severe soil moisture deficit.



Looking north at shamel ash 102, 103, 104, and 105 to be retained. Note canopy dieback in the form of live twig density decline.



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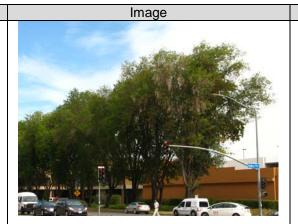


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Looking northeast at shamel ash 461 to 475, most of which are to be retained along the east side of North Wolfe Rd.

Tree #



Long-lived, droughttolerant, strongwooded oak species like these two existing holly oaks 97 and 98 to be removed at the project site are examples of trees appropriate for new landscaping.

Tree #



BELOW:

IMAGES FROM FOLLOW-UP SITE ASSESSMENT ON 12/8/2017

Looking north along N. Wolfe Rd. The shamel ashes, although they are referred to as "evergreen ash", actually go deciduous to some degree, with leaf drop ranging from zero to +/- 50% of the entire foliar canopy.



Fruits are borne as long clusters of "keys" or "samaras" on evergreen ash specimens, extending a great distance along a stem, making it relatively difficult to determine from the ground whether bare stems are dead or are simply going through normal leaf drop and fruit drop in Fall.



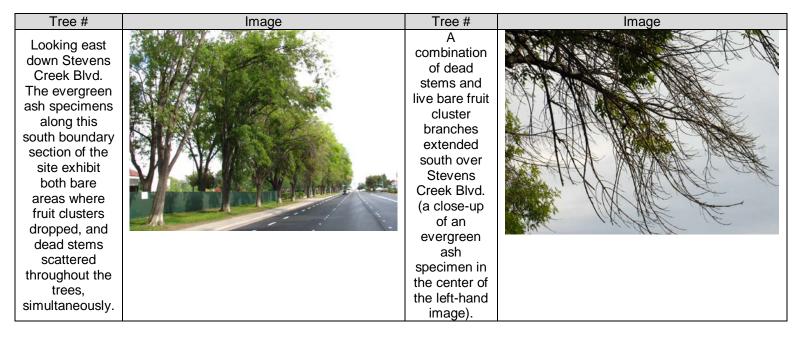
Note the short whispy stems that remain behind on the fruit branch clusters after the evergreen ash samaras drop to the ground. These are an indication that the woody stems in this image are alive and are actually associated with a recently-dropped fruit cluster, rather than representing a dead or dying tissue region of the canopy. In some cases, there are both dead stems and bare fruit branches mingled together throughout an evergreen ash, making determination of overall condition rating very difficult during the Fall/Winter period.





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10.0 Tree Maintenance Recommendations

The following matrix shows all tree maintenance recommendations by WLCA for those trees located south of the "alternate lot west" area.

Important Notes When Reviewing Table 10.0 Below:

- Trees being removed as shown on the proposed tree disposition plan sheet P-0602B version 11/17/2023 are shown in parentheses in the following table (i.e. the 714 trees noted by tag number in report summary table 1.2, rows 5, 6, and 7).
- Trees recommended to be removed by WLCA due to very poor condition, extreme lean, etc. are shown in parentheses in the following table (see the WLCA-recommended removals "partial list", noted by tag number, in report summary table 1.2, row 8).



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TABLE 10.0

| | | Tree Tag Number | |
|----------------|---|---|-------------|
| Line Number | Maintenance Action Suggested | (WLCA-recommended removals noted in parentheses) | Other Notes |
| 1 | Branch endweight reduction pruning on lengthy sections of canopy | (#8, 9) (if not removed during street tree removal).(#104) (if not removed during street tree removal).#414 (transplant specimen, if not removed during highway ramp related construction) | |
| 2 | Arborist cable and/or bracing installation per ANSI A300 support system standards | (#443) (to be removed per site plan and per highway ramp project). | |
| 3 | If no leaf-out occurs, then remove tree as "dead" | #(518) (removal per plan), 554. | |
| 4 | Some of these specimens likely exhibit elevated TRAQ risk ratings due to root cuts or root damage that occurred during various underground utility upgrades between 2015 and 2023. Suggest consider tree removal for safety purposes. Arborist should monitor trees for stability and for symptoms of decline in vigor, such as reduction in live twig extension lengths and density, as well as reduction in needle and foliar density. | (#225, 226, 228), (282-283 to be removed for highway ramp project), (285), (454), (459), (460, 463, 465, 468, 469, 473, 475), 645, 646, 647, 648, 649, 650, 651, 673, (695), 706, 707, 708, 710, 712, 713, 714, 716, 721, 722, 724, 727, 729, (734, 735, 736, 737, 738, 739), (744), 865, (1115), (1123, 1124, 1125). | 2x/year. |
| 5 | Remove one of two existing codominant mainstems at the fork, by an ISA Certified Arborist, per ANSI A300 pruning standards. | (#246). | |

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| Line Number | Maintenance Action Suggested | Tree Tag Number (WLCA-recommended removals noted in parentheses) | Other Notes |
|----------------|--|--|--|
| 6 | Commence heavy weekly irrigation over root zone, and continue through winter. Rate of approx. 25 to 100 gallons or more, per tree, per week, year-round. Consider optional use of aerial-based sprinkler systems and/or aerial- based misting systems to be installed in redwood specimens. | (All trees to remain) | Irrigation has been continuing at The Rise on almost a year-round basis, using various frequency and duration regimes that are adjusted depending on ambient daytime air temperatures and sun track angle, since circa 2019. On-going as of the date of writing. Aerial misting/Aerial sprinklers: not yet installed or trialed at The Rise as of the date of writing. |
| 7 | Add 4-inch thick layer of chipper truck type wood chips over soil to reduce irrigation water evaporation. Pull mulch out at least 6-inches to 12-inches away from trunk edges to avoid moisture retention at root crown. | (All trees to remain) | Done by SHPCO, as of circa 2020. |

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11.0 Tree Protection Requirements & Recommendations

1. City of Cupertino SB 35 Planning Approval 9/15/2019 Condition of Approval Item #32:

32. TREE PROTECTION

As part of the demolition or building permit drawings, a tree protection plan shall be prepared by a certified arborist for the trees to be retained. This tree protection plan shall adhere to the recommendations of the City's consulting arborist. In addition, the following measures shall be added to the protection plan:

- a. For trees on private property to be retained, chain link fencing and other root protection shall be installed around the dripline of the tree prior to any project site work.
- b. No parking or vehicle traffic shall be allowed under root zones, unless using buffers approved by the Project Arborist.
- c. No trenching within the critical root zone area is allowed. If trenching is needed in the vicinity of trees to be retained, the City's consulting arborist shall be consulted before any trenching or root cutting beneath the dripline of the tree.
- d. Wood chip mulch shall be evenly spread inside the tree protection fence to a four-inch depth.
- e. Tree protection conditions shall be posted on the tree protection barriers.
- f. Retained trees shall be watered to maintain them in good health.
- g. A covenant on the property shall be recorded that identifies all the protected trees, prior to final occupancy.

The tree protection measures shall be inspected and approved by the certified arborist prior to issuance of building permits. The City's consulting arborist shall inspect the trees to be retained and/or transplanted and shall provide reviews prior to issuance of demolition, grading or building permits. A report ascertaining the good health of the trees mentioned above shall be provided prior to issuance of final occupancy.

For trees within the public right-of-way which are subject to removal or new trees proposed for planting, the applicant shall secure an encroachment permit from the City.

2. City of Cupertino Standard Project Requirement Item 5.1 / FENCING AND ROOT PROTECTION:

Chain link fencing shall be erected using the materials specified below in recommendation table line #1.

Fencing shall be laterally offset from tree trunk edges, with fence runs along the curb edges and planter area edges, where possible, per Michael Bench, Contract City Arborist letter dated 6/7/2019.

Trunk wrap protection shall be per the below recommendation table line #2.

3. City of Cupertino Standard Project Requirement Item 5.6 / IRRIGATION:

"Retained trees shall be watered to maintain them in good health".

Toward this end, the project arborist will advise the project team on setting up timer-operated high-flow type temporary irrigation system(s) laid over-grade, using Salco UV-resistant flexible PVC tubing and/or equivalent materials to supplement soil moisture year-round. Bubblers shall be ½ inch diameter high-flow type flood bubblers, with "1GPM" (1 gallon per minute), or "2GPM" (2 gallons per minute) output each.

Volume of water to be applied: to be determined.

Frequency and duration of irrigation events: to be determined.

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Locations of bubblers: to be determined.

WLCA Recommendations Matrix:

| Line Number | Tree Protection Action |
|----------------|--|
| | ROOT PROTECTION ZONE FENCE |
| | 5-foot high chain link, hung on 7-foot long 2-inch diameter iron tube posts driven 24-inches into the ground, at max. 6-foot spacing oncenter. |
| | Alternative fencing: Chain link fence panels set on moveable concrete footings. |
| 1 | |





Tree Tag Numbers

The first grouping below is the initial list of all +/- 271 trees to be retained per tree disposition sheet P-0602B revision date 11/17/2023, including the +/- 100 trees proposed by the author to be removed due to very poor condition ratings and/or elevated risk of failure and impact that will assumedly remain in the landscape for the time being.

The **second grouping** below is a separate list of only those +/- 100 trees suggested to be removed by WLCA that are either dead or in very poor overall condition (which may end up being retained and protected in-place, at least temporarily, in order to maintain screening benefits during project construction, until final phase landscape renovation work commences).

#(524-535), (537-541), 544, 546, 552, 554, 558, 560, 561, (571-596), (598-604), (606-611), (613-627), (630-632), (636-668), (670-673), (675-677), 704, (706-708), 710, (712-716), (721-722), 724, 727, 729, 730, 740, (741-743), (772-803), 805, 806, 809, (811-813), (816-820), (822-833), 835, (837-839), 841, 842, (844-853), (857-870), (872-875), (1227-1233), (1235-1243).

#583, 592, 597, 598, (603-608), 610, (628-631), (633-637), 639, 646, 648, 653, 654, (659-661), (669-672), 675, 677, 683, (704-708), 711, 714, (716-719), 721, 722, (724-727), 735, 736, 758, 763, 764, 768, 777, 780, 786, 787, 794, 804, (807-817), 821, 825, 827, 834, 836, 840, 843, 846, 852, (853-856), 867, 873.

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| Line Number | Tree Protection Action | Sample Image | Tree Tag Numbers |
|----------------|---|--------------|--|
| 2 | TRUNK BUFFER WRAPS 20 wraps of orange plastic with wood boards overlaid and duct taped in place around the wood. Use an entire roll of orange plastic snow fencing wrap for each single tree being retained. Do not use wires against the trunk. Duct tape is the Best Management Practice for affixing wood boards. | | Wrap all trees being retained that are directly adjacent to construction work (construction crew can exclude any trees being retained that are located behind "companion trees", where the companion trees act as de-facto barriers to block construction work contact with the mainstem (trunk)). |
| 3 | WOOD CHIP MULCH 4 inch thick layer of chipper truck type wood chips (not bark chips). Place over entire open soil root zone areas, and pull 6 to 12 inches away from tree trunk edges. | | Apply wood chips where possible around all open soil root systems of trees to remain. |

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Sample Image

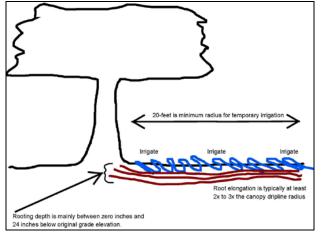


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Line Tree Protection Number Action IRRIGATION **TEMPORARY** Heavy 2x/week (+/-20 to 100 gallons per tree, per week, minimum, year-round (volume depends on tree species, age, diameter, tree spacing, root grafting, evaporation loss, etc.) Use over-grade systems only, such as PVC piping or flexible Salco or equivalent UVresistant flexible PVC set over the 4 around (image above right), or hand-watering via tow-behind tank and spray apparatus with fire hose (image below right). Place bubblers as far as possible offset from the tree trunks to irrigate lateral roots that may be extended as far as 50 horizontal feet or more from the trunk of each tree. For bubbler systems, use only 1 gallon per minute or 2 gallon per minute high-flow type flood bubblers.







Where possible, over all open soil root zones of all trees to remain. Note that roots grow laterally outward from the trunk of a tree to far beyond the canopy dripline, at sites where there is soil root zone available for the roots to do so. Therefore, irrigation is often very beneficial when performed over open soil areas that are far from the trunk edges of trees.

Tree Tag Numbers

NOTE: The irrigation regime indicated at left is not appropriate for native, dry-summer climate type tree species such as coast live oaks.

The regime at left is intended to be utilized only for tree species whose vigor is directly dependent on yearround supplemental irrigation water application, such as project site coast redwood specimens and evergreen ash specimens.

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| Line Number | Tree Protection Action | Sample Image | Tree Tag Numbers |
|----------------|---|--|--|
| 5 | ROOT PRUNING Back-dig around exposed roots, and prune at right angle to root growth direction, removing all broken, shattered, or otherwise damaged sections of roots. Use only blades with large teeth that are specifically labelled as "pruning" blades or "green wood" blades (see image at right). | Semans Plades Hater Representation of the second se | Where applicable during excavation, trenching, grading, etc. |

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| HARDSCAPE Option 1: Allow existing hardscape areas to remain where possible, to avoid root loss and root damage (see image at right). Grind down areas where slab displacement has occurred, using a diamond saw. Option 2: Replace using screed and rubber sidewalk components where possible, to allow for future upward displacement "bend" of the material (see image at right of Stanford University rubber installed by McGuire & Hester). Option 3: Pin down a triaxial geogrid such as Tensar TriAx TX160 geogrid, laid directly over the soil and roots, and build up the baserock and walkway over that geogrid (see image at right from Serra Mall project, Stanford University). "Arborist monitoring required | | Tree Protection | Sample Image | Tree Tag Numbers |
|---|---|--|--------------|------------------------------|
| Option 1: Allow existing hardscape areas to remain where possible, to avoid root loss and root damage (see image at right). Grind down areas where slab displacement has occurred, using a diamond saw. Option 2: Replace using screed and rubber sidewalk components where possible, to allow for future upward displacement "bend" of the material (see image at right of Stanford University rubber sidewalk project installed by McGuire & Hester). Option 3: Pin down a triaxial geogrid such as Tensar TrAx TX160 geogrid, laid directly over the soil and roots, and build up the baserock and walkway over that geogrid (see image at right from Serra Mall project, Stanford University). "Arborist monitoring required | | | Sample Image | Tree rag Numbers |
| within 20 feet of | 6 | HARDSCAPE Option 1: Allow existing hardscape areas to remain where possible, to avoid root loss and root damage (see image at right). Grind down areas where slab displacement has occurred, using a diamond saw. Option 2: Replace using screed and rubber sidewalk components where possible, to allow for future upward displacement "bend" of the material (see image at right of Stanford University rubber sidewalk project installed by McGuire & Hester). Option 3: Pin down a triaxial geogrid such as Tensar TriAx TX160 geogrid, laid directly over the soil and roots, and build up the baserock and walkway over that geogrid (see image at right from Serra Mall project, Stanford University). **Arborist monitoring required during demolition | | (Various, to be determined). |
| within 20 feet of | | during demolition within 20 feet of | | |

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| Line Number | Tree Protection Action | Sample Image | Tree Tag Numbers |
|----------------|---|--|--|
| | TRENCHLESS SOLUTIONS FOR UTILITY UPGRADES For all trenching, including utilities, drain pipes, downspout drain lines, etc., for all items to be installed within 20 | | (Various, to be determined). For areas where these items are to be aligned at distances greater than 20 linear feet offset (radius) from trunk edges of trees being retained, standard trenching methods and materials can be used (e.g. bucket excavator, Ditch Witch trenching machines, etc.). Trenchless solution equipment is |
| | feet of trunks of trees being retained, the following are viable | Above: Directional bore near tree being retained, Hetch Hetchy system water delivery pipe (image copyright | available locally in the San Francisco Bay Area from: |
| | methods used in the industry to go "trenchless" without | WLCA 2017). | Ditch Witch Bay Area Office 8240 Enterprise Drive Newark, CA Phone: (510) 657-5722 |
| 7 | having to cut through lateral woody tree root systems (see images at right). Solutions include: | HOME NEWS PRODUCTS PRECINATIONS PRECINATION SISTE DISISTED Hydrollural Historia | |
| | A: Directional bore (see image at right). | PREFAMENCE PREFAMENCE PROTOCULING LINING SYSTEMS ROOK HAMMERS STEALS & DEALS PARTS & SERVICES STATIC BURSTING Underground contractors and municipalities around the world are using Hammer-lead® static pipe bursting equipment as an effective method to replace existing water, gas and severe lines. Pipe bursting lookes the part of the outsign plating static state, and elementing up to 5 percent of excatant news compared to open-cut methods. Harmer-Head leads the industry with proven technology and features designed to increase productivity. | |
| | B: Static pipe bursting, which allows for pipe diameter increases (see image at right). C: Pull-through pipe burst ("lateral bursting") using a pull-through "pig" (see image at right, courtesy of HTEC). | Above: Static bursting for pipe diameter upgrade. Photo courtesy of Hammerhead Trenchless Equipment Co. (HTEC). TRENCHLESS SOLUTIONS LATERAL BURSTING | |

59 of 61

AMERICAN SOCIETY OF CONSULTING ARRORISTS

ASCA Registered Consulting Arborist #401

ISA Qualified Tree Risk Assessor

ISA Certified Arborist #WE-3172A

Tree Protection Line Sample Image Tree Tag Numbers Number Action IRRIGATION **PERMANENT** Use no-dig overgrade tubing, or max. of "6 inches of cover within 20 feet of trees" as a callout specification on all plans. There are two methods that can be utilized for these types of situations: 0-2 GPM Flood Bubbler with Adjustable, Full Circle a: Standard flex tubing laid over grade, with either built-in emitters, or with a minimum of two (2) high-flow type 1/2" diameter adjustable flood (Various, to be determined). bubblers that emit up to 2 gallons per For areas where irrigation pipes are 8 to be aligned at distances greater minute flow rate. than 20 linear feet offset (radius) set around each single newly from trunk edges of trees being installed tree retained, standard solid PVC irrigation pipe trenching can be (see images at specified (e.g. 18 inches min. cover right). depth, etc.) b: UV-resistant "UVR" flexible PVC For new tree installations, two (2) piping. An example high-flow type bubblers are set directly over the root ball as in the of this is Salco model #PVC-ARimage above. 050IPS. "1/2 inch" diameter. This material can be laid directly over-grade in full sun, and the thick walls of the material allow it to be much more vandal-resistant than standard thinwalled flexible irrigation tubing. See photo at right.



ISA Qualified Tree Risk Assessor

- ISA Certified Arborist #WE-3172A
- 12.0 Attached, Tree Data Table, Updated 12/4/2023 (WLCA)
- 13.0 Attached, Olin Studio Tree Sheets P0602A and P0602B Updated 12/4/2023
- 14.0 Attached, Tree Fact Sheet (Coast Redwood)
- 15.0 Attached, Devil Mountain Nursery Oak Availability List (Partial), Sept, 2023

This last attached sheet is a partial listing of new or unusual oak species on the September, 2023 availability list for only one single grow site owned or operated by Devil Mountain Nursery (Clements grow site only, California). Contact Mr. David Teuschler, lead horticulturalist, Devil Mountain Nursery for tree purchase or contract grows.

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Heaith & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2817 ONWARD. Condition Ratings for All Ash Specimens Along Steven Creek Bilvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|---|
| 1 | Standard | x | | | 13.0 | | | | | | 13.0 | | Shamel ash | Fraxinus uhdei | 30/18 | 20/30 | 25% very poor | poor | | | 6 | | | | 11 | x | | | Removed as of Jan, 2020. |
| 2 | Standard | х | | | 10.9 | | | | | | 10.9 | | Shamel ash | Fraxinus uhdei | 25/20 | 50/35 | 40% poor | moderate | | | 7 | | | | | | | | Removed as of Jan, 2020. |
| 3 | Standard | x | | | 13.9 | | | | | | 13.9 | | Shamel ash | Fraxinus uhdei | 30/25 | 60/45 | 50% fair | moderate | | | | | | | | | | | Removed as of Jan, 2020. |
| 4 | Standard | x | | | 16.6 | | | | | | 16.6 | | Shamel ash | Fraxinus uhdei | 35/30 | 55/60 | 57% fair | moderate | | | | | | | | | | | Removed as of Jan, 2020. |
| 5 | Standard | x | | | 22.0 | | | | | | 22.0 | | Shamel ash | Fraxinus uhdei | 45/45 | 75/60 | 66% fair | good | | | 12 | | | | | | | | Removed as of Jan, 2020. |
| 6 | Standard | x | | | 13.3 | | | | | | 13.3 | | Shamel ash | Fraxinus uhdei | 35/15 | 50/35 | 43% poor | moderate | | | | | | | | | | | Removed as of Jan, 2020. |
| 7 | Standard | х | | | 27.6 | | | | | | 27.6 | | Monterey pine | Pinus radiata | 55/30 | 65/65 | 65% fair | moderate | | | | | | | | | | | Removed as of Jan, 2020. |
| 8 | Street | x | | | 19.9 | | | | | | 19.9 | | Shamel ash | Fraxinus uhdei | 55/30 | 60/50 | 55% fair | moderate | w | | | | | | | | | Needs endweight reduction pruning | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor". |
| 9 | Street | x | | | 26.2 | | | | | | 26.2 | | Shamel ash | Fraxinus uhdei | 55/40 | 20/40 | 30% poor | poor to mod | | | | | GR | | | | | Needs endweight reduction pruning | |
| 10 | Street | x | | | 27.0 | | | | | | 27.0 | | Shamel ash | Fraxinus uhdei | 55/30 | 40/50 | 45% fair | poor to mod | N | | | | | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor". |
| 11 | Street | x | | | 28.8 | | | | | | 28.8 | | Shamel ash | Fraxinus uhdei | 55/30 | 40/50 | 45% fair | moderate | s | | | | GR | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 37% or "poor". |
| 12 | Street | x | | | 20.2 | | | | | | 20.2 | | Shamel ash | Fraxinus uhdei | 55/25 | 30/30 | 30% poor | poor to mod | E | | | | | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 25% or "very poor". Trees in very poor condition are generally recommended to be removed. |
| 13 | Street | x | | | 22.2 | | | | | | 22.2 | | Shamel ash | Fraxinus uhdei | 55/25 | 50/50 | 50% fair | poor to mod | s | | | | | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 37% or "poor". |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan | Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | 'Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blwd and N. Wolfe Rd Were Updated in Pall, 2922. |
|------------|-----------|--|-------------------------------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 14 | Street | x | | | | 24.7 | | | | | | 24.7 | | Shamel ash | Fraxinus uhdei | 60/28 | 40/50 | 45% fair | moderate | N | | | | | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor". |
| 15 | Street | x | | | | 24.6 | | | | | | 24.6 | | Shamel ash | Fraxinus uhdei | 60/30 | 40/50 | 45% fair | moderate | N | | | | | | | | | | |
| 16 | Street | x | | | | 20.6 | | | | | | 20.6 | | Shamel ash | Fraxinus uhdei | 55/30 | 50/50 | 50% fair | moderate | N | | | | | | | | | | Tree appears to be decilining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 42% or "poor". |
| 17 | Street | х | | | | 17.7 | | | | | | 17.7 | | Shamel ash | Fraxinus uhdei | 45/25 | 30/30 | 30% poor | | s | | | | | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor". |
| 18 | Street | x | | | | 31.6 | | | | | | 31.6 | | Shamel ash | Fraxinus uhdei | 60/30 | 50/40 | 45% fair | moderate | N | | | | GR | | 10 to 12 | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 48% or "poor". |
| 19 | Street | x | | | | 18.2 | | | | | | 18.2 | | Shamel ash | Fraxinus uhdei | 45/25 | 35/35 | 35% poor | moderate | s | | | | | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor". |
| 20 | Street | x | | | | 21.5 | | | | | | 21.5 | | Shamel ash | Fraxinus uhdei | 50/35 | 25/30 | 27% Poor | poor to mod | | | | | | | | | | | |
| 21 | Street | x | | | | 17.0 | | | | | | 17.0 | | Shamel ash | Fraxinus uhdei | 35/20 | 50/40 | 42% fair | moderate | s | | | | GR | | | | | | |
| 22 | Street | x | | | | 32.3 | | | | | | 32.3 | | Shamel ash | Fraxinus uhdei | 55/50 | 40/45 | 43% fair | good | NE | | | | | | | | | | |
| 23 | Street | x | | | | 24.5 | | | | | | 24.5 | | Shamel ash | Fraxinus uhdei | 55/30 | 40/40 | 40% poor | moderate | s | | 30 | | GR | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 45% or "poor". |
| 24 | Street | x | | | | 29.7 | | | | | | 29.7 | | Shamel ash | Fraxinus uhdei | 55/40 | 50/50 | 50% fair | moderate | N | | | | GR | | | | | | |
| 25 | Street | x | | | | 20.7 | | | | | | 20.7 | | Shamel ash | Fraxinus uhdei | 50/30 | 45/35 | 40% poor | moderate | SE | | 30 | | serious GR | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition "s approximately 50% or "fair". |
| 26 | Street | x | | | | 20.2 | | | | | | 20.2 | | Shamel ash | Fraxinus uhdei | 35/35 | 35/40 | 37% poor | moderate | N | | | | GR | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 45% or "poor". |

| Tree Tag # | | To be Removed Per Current Site Plan | Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | 'Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) Codominant Mainsterns with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD, Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|--------|--|-------------------------------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---|--------------------------------------|--|--|---|---|--|--|
| 27 | Street | x | | | | 25.8 | | | | | | 25.8 | | Shamel ash | Frāzinus uhdei | 55/35 | 50/45 | 47% fair | moderate | s | | | | | | | | Tree was significantly damaged by a City-hired contractor performing directional box and onder electrical utility related work along Stevens Creek Bivd in June and July, 2015 Stevens Creek Bivd in June and July, 2015 Impa |
| 28 | Street | х | | | | 36.9 | | | | | | 36.9 | | Shamel ash | Fraxinus uhdei | 60/40 | 45/45 | 45% fair | good | N | | | GR | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 45% or "poor". |
| 29 | Street | x | | | | 32.3 | | | | | | 32.3 | | Shamel ash | Fraxinus uhdei | 60/35 | 50/45 | 48% fair | good | s | | | GR | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 50% or "fair". |
| 30 | Street | x | | | | 29.5 | | | | | | 29.5 | | Shamel ash | Fraxinus uhdei | 50/40 | 50/40 | 43% Fair | good | NE | | | | | | | | |
| 31 | Street | x | | | | 6.3 | | | | | | 6.3 | | Shamel ash | Fraxinus uhdei | 18/10 | 20/20 | 20% very poor | moderate | s | | | BRC | | | | Stunted | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 25% or "very poor". Trees in very poor overall condition are generally condididates for removal from the landscape, since their ability to recover to their previous level of vigor is limited. |
| 32 | Street | x | | | | 17.9 | | | | | | 17.9 | | Shamel ash | Fraxinus uhdei | 55/35 | 50/45 | 47% fair | moderate | N | | | | | | | | |
| 33 | Street | х | | | | 26.0 | | | | | | 26.0 | | Shamel ash | Fraxinus uhdei | 55/35 | 40/40 | 40% poor | moderate | | | | GR | | | | Diameter estimated. | Tree appears to be decilining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor". |
| 34 | Street | x | | | | 24.0 | | | | | | 24.0 | | Shamel ash | Fraxinus uhdei | 50/25 | 40/30 | 35% poor | ? | s | | | | 9 | | | Tree out of leaf. Condition estimated. | Tree appears to be decilining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor". |
| 35 | Street | x | | | | 23.3 | | | | | | 23.3 | | Shamel ash | Fraxinus uhdei | 55/25 | 40/40 | 40% poor | moderate | N | | | | | | | | |
| 36 | Street | x | | | | 26.6 | | | | | | 26.6 | | Shamel ash | Fraxinus uhdei | 55/45 | 40/50 | 45% fair | moderate | | | | | | | | | |
| 37 | Street | x | | | | 32.9 | | | | | | 32.9 | | Shamel ash | Fraxinus uhdei | 60/35 | 50/40 | 45% fair | good | N | | | | | | | | |
| 38 | Street | x | | | | 18.2 | | | | | | 18.2 | | Shamel ash | Fraxinus uhdei | 50/25 | 20/30 | 25% poor | moderate | s | | | | | | | | |

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|-----------|-------------|--|-------------------------------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 39 | Street | x | | | | 23.0 | | | | | | 23.0 | | Shamel ash | Fraxinus uhdei | 55/40 | 30/40 | 35% poor | good | N | | | | | | GR | | | Diameter estimated. | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 45% or "poor". |
| 40 | Street | х | | | | 28.2 | | | | | | 28.2 | | Shamel ash | Fraxinus uhdei | 55/45 | 35/40 | 37% poor | moderate | s | | 25 | | GR | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor". |
| 41 | Street | x | | | | 18.3 | | | | | | 18.3 | | Shamel ash | Fraxinus uhdei | 50/20 | 25/25 | 25% poor | moderate | NE | | | | | | | | | | |
| 42 | Street | x | | | | 6.5 | | | | | | 6.5 | | Shamel ash | Fraxinus uhdei | 20/8 | 20/10 | 15% very poor | poor | s | s | | | | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor". |
| 43 | Street | x | | | | 24.0 | | | | | | 24.0 | | Shamel ash | Fraxinus uhdei | 55/30 | 40/45 | 43% fair | good | N | | | | GR | | | | | Diameter estimated. | |
| 44 | Street | x | | | | 30.7 | | | | | | 30.7 | | Shamel ash | Fraxinus uhdei | 50/35 | 35/35 | 35% poor | good | s | | | | GR | | | | | | |
| 45 | Street | x | | | | 18.0 | | | | | | 18.0 | | Shamel ash | Fraxinus uhdei | 50/20 | 35/25 | 30% poor | poor to mod | N | | | | | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor". |
| 46 | Street | х | | | | 30.5 | | | | | | 30.5 | | Shamel ash | Fraxinus uhdei | 55/35 | 40/40 | 40% poor | good | s | | | | GR | | 7 to 9 | | | | |
| 47 | Street | x | | | | 26.0 | | | | | | 26.0 | | Shamel ash | Fraxinus uhdei | 55/30 | 45/35 | 40% poor | good | N | | | | | | | | | Diameter estimated. | |
| 48 | Street | x | | | | 31.6 | | | | | | 31.6 | | Shamel ash | Fraxinus uhdei | 55/30 | 40/35 | 37% poor | mod to good | s | | | | GR | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor". |
| 49 | Street | x | | | | 24.5 | | | | | | 24.5 | | Shamel ash | Fraxinus uhdei | 55/25 | 25/30 | 27% poor | moderate | N | | | | | | | | | | |
| 50 | Street | x | | | | 39.5 | | | | | | 39.5 | | Shamel ash | Fraxinus uhdei | 55/40 | 30/35 | 33% poor | moderate | E | | | | serious GR | | | | | | Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor". |
| 51 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED. |
| 52 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED. |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan | Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Cree Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|-----------|--|-------------------------------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|---|
| 53 | Street | x | | | 1 | 16.9 | | | | | | 16.9 | | Shamel ash | Fraxinus uhdei | 45/25 | 50/30 | 37% poor | Mod | E | E | | | | | | | | | 60% Fair. Same condition as previously noted in past years. |
| 54 | Street | x | | | 3 | 31.6 | | | | | | 31.6 | | Shamel ash | Fraxinus uhdei | 55/40 | 40/25 | 30% Poor | poor | w | | | | GR | | | | | | Tree appears to be declining from prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor". |
| 55 | Street | x | | | 2 | 21.8 | | | | | | 21.8 | | Shamel ash | Fraxinus uhdei | 50/25 | 50/30 | 38% Poor | moderate | | | | | | | | | | | |
| 56 | Street | x | | | 1 | 18.3 | | | | | | 18.3 | | Shamel ash | Fraxinus uhdei | 50/20 | 35/20 | 27% Poor | poor | w | | | | | | | | | | |
| 57 | Street | x | | | 1 | 19.5 | | | | | | 19.5 | | Shamel ash | Fraxinus uhdei | 55/30 | 30/27 | 29% Poor | poor | E | | | | | | | | | | Gravel in this area from PG&E gas pipe line replacement in December, 2020 indicates that root loss to some degree occurred during piperelated excavation. |
| 58 | Street | x | | | 2 | 26.4 | | | | | | 26.4 | | Shamel ash | Fraxinus uhdei | 55/30 | 40/28 | 32% poor | poor | w | | | | | | | | | | Gravel in this area from PG&E gas pipe line replacement in December, 2020 indicates that root loss to some degree occurred during piperelated excavation. |
| 59 | Stre et | x | | | 3 | 33.8 | | | | | | 33.8 | | Shamel ash | Fraxinus uhdei | 55/30 | 40/30 | 35% poor | poor | E | | | | | | 11 | | | | Gravel in this area from PG&E gas pipe line replacement in December, 2020 indicates that root loss to some degree occurred during piperelated excavation. |
| 60 | Street | x | | | 2 | 24.9 | | | | | | 24.9 | | Shamel ash | Fraxinus uhdei | 45/35 | 40/30 | 35% Poor | poor | w | | | | | | | | | | |
| 61 | Street | x | | | 2 | 24.4 | | | | | | 24.4 | | Shamel ash | Fraxinus uhdei | 55/35 | 40/30 | 32% poor | poor | E | | | | | | | | | | |
| 62 | Street | x | | | 2 | 27.9 | | | | | | 27.9 | | Shamel ash | Fraxinus uhdei | 55/25 | 50/30 | 37% Poor | mod | w | | | | | | | | | | |
| 63 | Street | x | | | 3 | 31.5 | | | | | | 31.5 | | Shamel ash | Fraxinus uhdei | 55/40 | 60/50 | 54% Fair | mod | | | | | | | | | | | |
| 64 | Stre et | x | | | 2 | 20.8 | | | | | | 20.8 | | Shamel ash | Fraxinus uhdei | 40/25 | 40/25 | 29% Poor | poor | w | | | | | | | | | | |
| 65 | Street | x | | | 2 | 20.7 | | | | | | 20.7 | | Shamel ash | Fraxinus uhdei | 50/25 | 55/35 | 43% Fair | good | E | | | | GR | | | | | | |
| 66 | Street | x | | | 3 | 37.8 | | | | | | 37.8 | | Shamel ash | Fraxinus uhdei | 60/25 | 50/40 | 45% Fair | moderate | w | | | | | | | | | | |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Spiltout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2917 OWWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|--------------------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 67 | Street | x | | | | 18.3 | | | | | | 18.3 | | Shamel ash | Fraxinus uhdei | 55/25 | 40/27 | 31% Poor | moderate | w | | | | | | | | | | |
| 68 | Street | x | | | | 41.0 | | | | | | 41.0 | | Shamel ash | Fraxinus uhdei | 55/50 | 50/30 | 37% Poor | moderate | NW | | | | | pi | ossible bark inclusion issues | | | | |
| 69 | Transp | | t | o transplant | | 19.4 | | | | | | 19.4 | | holly oak | Quercus ilex | 45/20 | 60/60 | 60% fair | moderate | w | | | | | | | | | | 70% overall condition "good". |
| 70 | Trans plant-Street | | t | o transplant | | 13.2 | | | | | | 13.2 | | holly oak | Quercus ilex | 25/20 | 60/60 | 60% fair | moderate | w | | | | | | | | | | 65% overall condition "fair". |
| | Street | x | | | | 40.8 | | | | | | 40.8 | | Shamel ash | Fraxinus uhdei | 60/45 | 65/55 | 60% fair | good | | | | | | | 10 | | | | |
| 72 | Street | x | | | : | 24.3 | | | | | | 24.3 | | Shamel ash | Fraxinus uhdei | 55/25 | 40/30 | 33% Poor | poor | E | | | | serious GR | | | | | | |
| 73 | Street | x | | | : | 26.2 | | | | | | 26.2 | | Shamel ash | Fraxinus uhdei | 55/35 | 40/25 | 30% Poor | poor | w | | | | | | 16 | | | | |
| 74 | Street | x | | | : | 28.0 | | | | | | 28.0 | | Shamel ash | Fraxinus uhdei | 55/30 | 50/45 | 47% Fair | moderate | E | | | | | | | | | | |
| 75 | Street | x | | | : | 21.4 | | | | | | 21.4 | | Shamel ash | Fraxinus uhdei | 40/25 | 30/30 | 30% Poor | poor | w | | | | | | | | | | |
| 76 | Street | x | | | : | 20.2 | | | | | | 20.2 | | Shamel ash | Fraxinus uhdei | 50/18 | 30/30 | 30% Poor | poor | E | | | | | | | | | | |
| 77 | Street | x | | | | 15.8 | | | | | | 15.8 | | Shamel ash | Fraxinus uhdei | 45/15 | 25/15 | 20% Very Poor | very poor | w | | | | | | | | | | |
| 78 | Street | x | | | | 17.0 | | | | | | 17.0 | | Shamel ash | Fraxinus uhdei | 55/35 | 30/30 | 30% Poor | poor | | | | | serious GR | | | | | | |
| 79 | Street | x | | | : | 21.2 | | | | | | 21.2 | | Shamel ash | Fraxinus uhdei | 55/25 | 40/30 | 34% poor | poor to mod | w | | | | GR | | | | | | |
| 80 | Street | x | | | : | 28.2 | | | | | | 28.2 | | Shamel ash | Fraxinus uhdei | 55/35 | 50/40 | 44% Fair | moderate | E | | | | | | | | | | |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinaco (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 OWARD. Condition Ratings for All Ash Specimens Along Stevens Creek BM and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|-------------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|------------------------------|---|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|---|
| 81 | Street | x | | | 24.7 | | | | | | 24.7 | | Shamel ash | Fraxinus uhdei | 55/35 | 40/30 | 32% Poor | moderate | w | | | | | | | | | | |
| 82 | Street | x | | | 19.0 | | | | | | 19.0 | | Shamel ash | Fraxinus uhdei | 55/20 | 20/20 | 20% Very Poor | very poor | E | | | | | | | | | | |
| 83 | Street | x | | | 17.8 | | | | | | 17.8 | | Shamel ash | Fraxinus uhdei | 55/30 | 40/30 | 31% Poor | moderate | w | | | | | | | | | | |
| 84 | Street | x | | | 21.2 | | | | | | 21.2 | | Shamel ash | Fraxinus uhdei | 35/30 | 45/30 | 37% Poor | moderate | E | | | | | | | | | | |
| 85 | Street | x | | | 20.3 | | | | | | 20.3 | | Shamel ash | Fraxinus uhdei | 55/30 | 45/35 | 38% Poor | moderate | w | | | | | | | | | | |
| 86 | Street | x | | | 23.2 | | | | | | 23.2 | | Shamel ash | Fraxinus uhdei | 55/35 | 50/35 | 40% Poor | moderate | | | | | GR | | | | | | |
| 87 | Street | x | | | 22.8 | | | | | | 22.8 | | Shamel ash | Fraxinus uhdei | 55/35 | 50/35 | 39% Poor | moderate | NW | | | | | | | | | | |
| 88 | Street | x | | | 5.9 | 5.0 | 4.9 | | | | 15.8 | | Monterey pine | Pinus radiata | 9/11 | 65/65 | 65% fair | moderate | | | | | | | | | | ID of species not verified | Removed as of 2023. |
| 89 | Development | x | | | 23.5 | | | | | | 23.5 | | Canary Island pine | Pinus canariensis | 45/18 | 80/75 | 78% good | good | | | | | | 0 to 4 | | | | | Removed as of Jan, 2020. |
| 90 | Development | x | x | | 16.0 | | | | | | 16.0 | | Monterey pine | Pinus radiata | 18/25 | 30/30 | 30% poor | moderate | | | | | GR | | | | | ID of species not verified. Tree appears to be infected by pine pitch canker fungus. | Removed as of Jan, 2020. |
| 91 | Development | x | x | | 20.4 | | | | | | 20.4 | | Monterey pine | Pinus radiata | 25/25 | 40/40 | 40% poor | poor to mod | | w | | | | | | | | Tree has bark beetle issues and/or pine pitch canker infection. | Removed as of Jan, 2020. |
| 92 | Development | x | x | | 15.5 | | | | | | 15.5 | | carrotwood, or carob tree | Cupaniopsis anacardioides, or Ceratonia siliqua | 20/15 | 25/10 | 15% very poor | poor to mod | w | | | | | 0 to 8 | | | | | Removed as of Jan, 2020. |
| 93 | Development | x | | | 11.6 | | | | | | 11.6 | | carrotwood, or carob tree | Cupaniopsis anacardioides, or Ceratonia siliqua | 20/15 | 50/30 | 45% poor | moderate | | | | | | 4 to 7 | | | | | Removed as of Jan, 2020. |
| 94 | Development | x | | | 13.0 | | | | | | 13.0 | | carrotwood, or carob tree | Cupaniopsis anacardioides, or Ceratonia siliqua | 20/20 | 45/35 | 40% poor | poor to mod | | | | | | 6 to 12 | | | | | Removed as of Jan, 2020. |

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|-----------|-------------------------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|---------------------------|---|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|---|
| 95 | Development | х | | х | | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | | 35.0 | | carrotwood, or carob tree | Cupaniopsis anacardioides, or Ceratonia siliqua | 20/20 | 65/10 | 30% poor | good | | | | | | | 1 | | | Active crack is opened. Tree considered "extreme risk" of failure. Remove ASAP. | Removed as of Jan, 2020. |
| 96 | Development | х | | | | 34.0 | | | | | | 34.0 | | Shamel ash | Fraxinus uhdei | 40/25 | 65/55 | 57% fair | good | | | | | | | | x | | | Removed as of Jan, 2020. |
| 97 | Transplant- Standard | | , | to transplant | х | 15.3 | | | | | | 15.3 | | holly oak | Quercus ilex | 20/25 | 75/75 | 75% good | good | | | | | | | | | | | 80% overall condition "good" |
| 98 | Transplant- Standard | | , | to transplant | x | 14.0 | | | | | | 14.0 | | holly oak | Quercus ilex | 25/25 | 75/75 | 75% good | good | | | | | | | | | | | 70% overall condition "good" |
| 99 | Transplant- Standard | | , | to transplant | х | 11.6 | | | | | | 11.6 | | holly oak | Quercus ilex | 22/20 | 70/70 | 70% good | moderate | | | | | | | | | | | 78% overall condition "good" |
| 100 | Development | x | | х | | 12.3 | | | | | | 12.3 | | Monterey pine | Pinus radiata | 18/15 | 50/50 | 50% fair | moderate | | SE | 13 | | | | | | | ID of species not verified. | Removed as of Jan, 2020. |
| 101 | Standard | x | | | | 16.0 | | | | | | 16.0 | | Monterey pine | Pinus radiata | 28/20 | 50/50 | 50% fair | moderate | | | | | | | | | | | Removed as of Jan, 2020. |
| 102 | Street | x | | | | 25.9 | | | | | | 25.9 | | Shamel ash | Fraxinus uhdei | 50/35 | 45/25 | 31% Poor | moderate | | | | x | | | 12 | | | | |
| 103 | Street | x | | x | | 24.7 | | | | | | 24.7 | | Shamel ash | Fraxinus uhdel | 55/35 | 50/40 | 45% poor | moderate | | E | | x | | | 9 | | | | Estimated overall condition of 20% very poor as of 776875200 due to extensive decay on tension side (north side) of root crown, with possible increasing lean to the southeast over N Wolfe field. WLCA installed two rails and started monitoring lean angle degrees of 15 degrees of 19 verically. W.CA suggested removal of tree. Lean was significantly increasing in angle off vertical as of October, 2027. The removed in Nevember, 2022 by SHPCO for safety purposes. |
| 104 | Street | x | | | | 16.5 | | | | | | 16.5 | | Shamel ash | Fraxinus uhdei | 55/30 | 50/25 | 30% Poor | moderate | E | E | | x | | | | | | Needs endweight reduction pruning | |
| 105 | Street | x | | | | 16.0 | | | | | | 16.0 | | Shamel ash | Fraxinus uhdei | 45/25 | 30/20 | 25% Poor | poor | E | | | x | | 4 | | | | | |
| 106 | Street | x | | | | 21.7 | | | | | | 21.7 | | Shamel ash | Fraxinus uhdei | 50/35 | 40/20 | 23% Poor | moderate | | | | x | | | | x | | | |

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| 107 | Street | x | | | 19.4 | | | | | | 19.4 | | Shamel ash | Fraxinus uhdei | 50/25 | 50/30 | 40% Poor | moderate | s | | | x | | | | | | | |
| 108 | Standard | х | | | 15.9 | | | | | | 15.9 | | Shamel ash | Fraxinus uhdei | 35/30 | 55/55 | 55% fair | poor to mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 109 | Standard | x | | | 14.4 | | | | | | 14.4 | | Shamel ash | Fraxinus uhdei | 35/25 | 40/40 | 40% poor | poor to mod | N | | | | | | | | | | Removed as of Jan, 2020. |
| 110 | Standard | x | | | 18.9 | | | | | | 18.9 | | Shamel ash | Fraxinus uhdei | 45/30 | 40/30 | 35% poor | poor | | | | | | | 11 | | | | Removed as of Jan, 2020. |
| 111 | Standard | х | x | | 29.7 | | | | | | 29.7 | | Monterey pine | Pinus radiata | 45/35 | 60/55 | 57% fair | moderate | | | | | | | | | | Measured at 2 feet. | Removed as of Jan, 2020. |
| 112 | Standard | х | x | | 19.1 | | | | | | 19.1 | | Monterey pine | Pinus radiata | 25/18 | 0/0 | 0% Dead | | | | | | | | | | | | Removed as of Jan, 2020. |
| 113 | Standard | х | x | | 28.0 | 15.0 | | | | | 43.0 | | Monterey pine | Pinus radiata | 30/20 | 25/25 | 25% very poor | poor | w | | | | | | | | | Bark beetle issues and/or pine pitch canker fungus. | Removed as of Jan, 2020. |
| 114 | Standard | х | х | | 41.0 | | | | | | 41.0 | | Monterey pine | Pinus radiata | 35/35 | 55/45 | 50% fair | moderate | s | | | | | | | | | Measured at 2 feet. | Removed as of Jan, 2020. |
| 115 | Standard | x | | | 19.8 | | | | | | 19.8 | | Shamel ash | Fraxinus uhdei | 50/30 | 50/40 | 43% poor | poor to mod | E | | | | | | | x | | | Removed as of Jan, 2020. |
| 116 | Standard | х | | | 12.7 | | | | | | 12.7 | | Shamel ash | Fraxinus uhdei | 35/25 | 45/50 | 47% poor | poor to mod | | | | | | | | x | | | Removed as of Jan, 2020. |
| 117 | Standard | x | | | 14.4 | | | | | | 14.4 | | Shamel ash | Fraxinus uhdei | 35/25 | 40/45 | 45% poor | poor to mod | | | | | | | | x | | | removed as of October/Nov 2018 per plan. |
| 118 | Standard | х | | | 7.9 | | | | | | 7.9 | | Shamel ash | Fraxinus uhdei | 25/15 | 30/30 | 30% poor | poor | | | | | | | | x | | | removed as of October/Nov 2018 per plan. |
| 119 | Standard | х | | | 10.3 | | | | | | 10.3 | | Shamel ash | Fraxinus uhdei | 25/20 | 45/50 | 48% poor | poor to mod | E | | | | | | | x | | | removed as of October/Nov 2018 per plan. |
| 120 | Standard | x | | | 11.4 | | | | | | 11.4 | | Shamel ash | Fraxinus uhdei | 25/20 | 40/30 | 37% poor | poor to mod | E | | | | | | | x | | | removed as of October/Nov 2018 per plan. |

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| 121 | Standard | x | | | | 10.9 | | | | | | 10.9 | | Shamel ash | Fraxinus uhdei | 30/20 | 60/50 | 57% fair | mod to good | E | | | | | | | x | | | removed as of October/Nov 2018 per plan. |
| 122 | Standard | x | | | | 8.3 | | | | | | 8.3 | | Shamel ash | Fraxinus uhdei | 25/15 | 40/30 | 30% poor | poor | | E | | | GR | | | | | | removed as of October/Nov 2018 per plan. |
| 123 | Standard | x | | x | | 30.1 | | | | | | 30.1 | | coast redwood | Sequoia sempervirens | 60/25 | 30/30 | 30% poor | poor | | | | | | | | x | x | | Removed as of Jan, 2020. |
| 124 | Standard | x | | | | 22.9 | | | | | | 22.9 | | Shamel ash | Fraxinus uhdei | 55/40 | 60/50 | 55% fair (? Tree is leafless). | | | | | | GR | | | | | Tree condition needs to be verified after spring leafout. | Removed as of Jan, 2020. |
| 125 | Standard | x | | | | 24.9 | | | | | | 24.9 | | Shamel ash | Fraxinus uhdei | 60/30 | 40/40 | 40% poor | poor | | | | | GR | | | x | | | Removed as of Jan, 2020. |
| 126 | Standard | x | | | | 12.0 | | | | | | 12.0 | | Shamel ash | Fraxinus uhdei | 50/20 | 30/30 | 30% poor | poor | E | | | | | | | х | | | Removed as of Jan, 2020. |
| 127 | Standard | x | | | | 25.1 | | | | | | 25.1 | | Shamel ash | Fraxinus uhdei | 55/35 | 45/55 | 50% fair | moderate | E | E | | | GR | | | x | | | Removed as of Jan, 2020. |
| 128 | Standard | x | | | | 19.4 | | | | | | 19.4 | | Shamel ash | Fraxinus uhdei | 50/35 | 40/50 | 42% poor | poor | E | | | | | | | x | | | Removed as of Jan, 2020. |
| 129 | Standard | x | | | | 4.0 | | | | | | 4.0 | | fern pine | Podocarpus gracilior | 15/3 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 130 | Standard | x | | | | 4.0 | | | | | | 4.0 | | fern pine | Podocarpus gracilior | 15/3 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 131 | Standard | x | | | | 4.2 | | | | | | 4.2 | | fern pine | Podocarpus gracilior | 15/3 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 132 | Standard | x | | | | 4.4 | | | | | | 4.4 | | fern pine | Podocarpus gracilior | 15/3 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 133 | Standard | x | | | | 4.3 | | | | | | 4.3 | | fern pine | Podocarpus gracilior | 15/3 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 134 | Standard | x | | | | 4.0 | | | | | | 4.0 | | fern pine | Podocarpus gracilior | 15/3 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |

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| 135 | Standard | x | | | 4.8 | | | | | | 4.8 | | fern pine | Podocarpus gracilior | 15/3 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 136 | Standard | x | | | 4.7 | | | | | | 4.7 | | fern pine | Podocarpus gracilior | 15/3 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 137 | Standard | x | | | 4.6 | | | | | | 4.6 | | fern pine | Podocarpus gracilior | 15/3 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 138 | Standard | x | | | 7.8 | 4.9 | | | | | 12.7 | | Ficus species | Ficus sp. | 20/12 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 139 | Standard | x | | | 6.8 | 4.1 | | | | | 10.9 | | Ficus species | Ficus sp. | 20/12 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 140 | Standard | x | | | 6.8 | | | | | | 6.8 | | Ficus species | Ficus sp. | 20/12 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 141 | Standard | x | | | 5.9 | 3.7 | | | | | 9.6 | | Ficus species | Ficus sp. | 20/12 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 142 | Standard | x | | | 5.0 | 4.3 | | | | | 9.3 | | Ficus species | Ficus sp. | 20/12 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 143 | Standard | x | | | 5.0 | 4.1 | | | | | 9.1 | | Ficus species | Ficus sp. | 20/12 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 144 | Standard | x | | | 5.0 | 4.6 | 4.4 | | | | 14.0 | | Ficus species | Ficus sp. | 20/12 | 70/50 | 55% fair | moderate | | | | x | | | | | | Located at P1 parking level. | removed as of Oct/Nov 2018 per plan. |
| 145 | Standard | x | x | | 24.7 | | | | | | 24.7 | | Monterey pine | Pinus radiata | 35/25 | 60/60 | 60% fair | moderate | | | | | | | | | | | Removed as of Jan, 2020. |
| 146 | Standard | х | | | 8.1 | | | | | | 8.1 | | evergreen pear | Pyrus kawakamii | 20/15 | 60/50 | 57% fair | moderate | | | | | | | | | | | Removed as of Jan, 2020. |
| 147 | Standard | x | | | 7.2 | | | | | | 7.2 | | evergreen pear | Pyrus kawakamii | 15/12 | 40/40 | 40% poor | poor | w | | | | | | | | | | Removed as of Jan, 2020. |
| 148 | Standard | x | | | 42.2 | | | | | | 42.2 | | coast redwood | Sequola sempervirens | 60/25 | 80/80 | 80% good | good | | | | | | | | | x | | Removed as of Jan, 2020. |

| Tree Tag # | Tree Type To be Removed Per | Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | 'Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Greek Bild and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------------------------|--|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|------------------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|--|
| 149 | Standard | • | | | 28.0 | | | | | | 28.0 | | coast redwood | Sequoia sempervirens | 55/15 | 35/45 | 40% poor | poor | | | | | | | | x | x | | Removed as of Jan, 2020. |
| 150 | Standard | (| | | 4.0 | 3.1 | | | | | 7.1 | | flowering cherry cultivar | Prunus serrulata Cult. | 12/8 | 30/30 | 30% poor | ? Out of leaf | | | | | BRC | | | | | Needs root crown excavation. Condition not verified (tree out of leaf during survey). | Removed as of Jan, 2020. |
| 151 | Standard | (| | | 27.7 | | | | | | 27.7 | | coast redwood | Sequoia sempervirens | 60/20 | 80/60 | 66% fair | good | | | | | | 0 to 3 | | х | x | | Removed as of Jan, 2020. |
| 152 | Standard | (| | | 31.2 | | | | | | 31.2 | | coast redwood | Sequoia sempervirens | 55/15 | 60/60 | 60% fair | moderate | | | | | | | | | x | | Removed as of Jan, 2020. |
| 153 | Standard | • | | | 29.5 | | | | | | 29.5 | | coast redwood | Sequoia sempervirens | 55/15 | 60/60 | 60% fair | moderate | | | | | | | | | x | | Removed as of Jan, 2020. |
| 154 | Standard | • | | | 18.0 | | | | | | 18.0 | | coast redwood | Sequoia sempervirens | 50/15 | 70/70 | 70% good | moderate | | | | | | | | | x | | 75% overall condition "good". Removed as of January 2020. |
| 155 | Standard | • | | | 20.0 | | | | | | 20.0 | | coast redwood | Sequola sempervirens | 50/15 | 70/70 | 70% good | moderate | | | | | | | | | x | | 75% overall condition "good". Removed as of January 2020. |
| 156 | Standard | • | | | 27.4 | | | | | | 27.4 | | coast redwood | Sequola sempervirens | 60/18 | 75/75 | 75% good | good | | | | | | | | | x | | 65% overall condition "fair". Removed 1/2020. |
| 157 | Standard | C | | | 29.0 | | | | | | 29.0 | | coast redwood | Sequola sempervirens | 60/18 | 70/70 | 70% good | moderate | | | | | | | | | x | | 65% overall condition "fair". Removed as of Jan, 2020. |
| 158 | Standard | C | | | 27.2 | | | | | | 27.2 | | coast redwood | Sequola sempervirens | 60/15 | 50/40 | 40% poor | poor | | | | | | | | | x | Root system severed during ADA ramp installation. | 55% overall condition "fair" removed as of Jan, 2020. |
| 159 | Standard | C | | | 34.9 | | | | | | 34.9 | | coast redwood | Sequola sempervirens | 70/25 | 60/40 | 48% poor | poor to mod | | | | | | | | | x | Root system severed during ADA ramp installation. | 35% overall condition "poor". Removed as of Jan, 2020. |
| 160 | Standard | (| | | 16.2 | | | | | | 16.2 | | fern pine | Podocarpus gracilior | 55/12 | 70/20 | 35% poor | moderate | | | | x | | | 3 | | | | 50% overall condition "fair". Removed as of Jan, 2020. |
| 161 | Standard | (| | | 14.6 | | | | | | 14.6 | | fern pine | Podocarpus gracilior | 50/6 | 40/20 | 27% very poor | poor | | | | x | | | 17 | | | | 45% overall condition "poor". Removed as of Jan, 2020. |
| 162 | Standard | < | | | 11.1 | | | | | | 11.1 | | tree species out of leaf | Genus species | 45/16 | 50/25 | 32% poor | poor | s | S | | | | | At various elevations | | | | Removed as of Jan, 2020. |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Heaith & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from pring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Worle Rd Were Updated in Fall, 2023. |
|-----------|-----------|--|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--------------------------------------|--|
| 163 | Standard | x | | | 21.5 | | | | | | 21.5 | | Shamel ash | Fraxinus uhdei | 45/30 | 30/30 | 30% poor | poor | E | | | | | | 9 | x | | | Removed as of Jan, 2020. |
| 164 | Standard | x | | | 18.8 | | | | | | 18.8 | | Shamel ash | Fraxinus uhdei | 50/30 | 35/35 | 35% poor | poor | | | | | | | | x | | | Removed as of Jan, 2020. |
| 165 | Standard | x | | | 21.4 | | | | | | 21.4 | | Shamel ash | Fraxinus uhdei | 50/30 | 30/30 | 30% poor | poor | | | | | | | 6 | x | | | Removed as of Jan, 2020. |
| 166 | Standard | x | х | | 16.9 | | | | | | 16.9 | | Shamel ash | Fraxinus uhdei | 35/25 | 25/25 | 25% very poor | | | | | | | | | x | | | removed as of January 2020 |
| 167 | Standard | x | | | 21.6 | | | | | | 21.6 | | Shamel ash | Fraxinus uhdei | 40/25 | 30/30 | 30% poor | poor | | | | | GR | | | x | | | removed as of January 2020 |
| 168 | Standard | x | | | 12.1 | | | | | | 12.1 | | Shamel ash | Fraxinus uhdei | 35/20 | 50/40 | 45% poor | poor to mod | | | | | GR | | | x | | | removed as of January 2020 |
| 169 | Standard | x | х | | 20.1 | | | | | | 20.1 | | Shamel ash | Fraxinus uhdei | 40/25 | 25/25 | 25% very poor | very poor | | | | | | | | x | | | removed as of January 2020 |
| 170 | Standard | x | | | 25.9 | | | | | | 25.9 | | Shamel ash | Fraxinus uhdei | 55/30 | 55/40 | 45% poor | poor | | | | | severe GR | | | x | | | removed as of January 2020 |
| 171 | Standard | x | | | 40.2 | | | | | | 40.2 | | coast redwood | Sequola sempervirens | 60/25 | 80/80 | 80% good | moderate | | | | | | | | x | x | | 1/9/18 75% overall condition. Reoved as of 1/2020. |
| 172 | Standard | x | | | 21.2 | | | | | | 21.2 | | Shamel ash | Fraxinus uhdei | 45/30 | 55/45 | 49% poor | poor | | | | | | | 8 | | | | removed as of January 2020 |
| 173 | Standard | x | х | | 27.2 | | | | | | 27.2 | | coast redwood | Sequoia sempervirens | 65/18 | 45/45 | 45% poor | poor | | | | | | | | | x | | removed as of January 2020 |
| 174 | Standard | х | | | 29.5 | | | | | | 29.5 | | Shamel ash | Fraxinus uhdei | 55/40 | 30/30 | 30% poor | poor | | | | | | 0 to 7 | | | x | | removed as of January 2020 |
| 175 | Standard | х | | | 26.5 | | | | | | 26.5 | | Shamel ash | Fraxinus uhdei | 55/40 | 50/60 | 55% fair | moderate | | | | | | | | | x | | removed as of January 2020 |
| 176 | Standard | х | x | | 22.5 | | | | | | 22.5 | | Shamel ash | Fraxinus uhdei | 55/40 | 25/30 | 27% very poor | very poor | | | | | | | | | х | | removed as of January 2020 |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinano Ordinano (100" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2817 CNWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Worle Rd Were Updated in Fall, 2023. |
|------------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|------------------------|--|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|---|
| 177 | Standard | x | x | | 37.5 | | | | | | 37.5 | | coast redwood | Sequoia sempervirens | 65/25 | 55/60 | 58% fair | poor to mod | | | | | | | | x | x | | removed as of January 2020 |
| 178 | Standard | х | | | 5.7 | 3.8 | | | | | 9.5 | | strawberry tree | Arbutus unedo | 15/15 | 70/50 | 60% fair | moderate | w | w | | x | | | | | | | removed as of January 2020 |
| 179 | Standard | х | | | 8.1 | | | | | | 8.1 | | strawberry tree | Arbutus unedo | 20/12 | 80/60 | 70% good | good | w | w | | | | | | | | | removed as of January 2020 |
| 180 | Standard | х | x | | 21.2 | | | | | | 21.2 | | Shamel ash | Fraxinus uhdei | 55/25 | 15/15 | 15% very poor | very poor | | | | | | | 11 | x | | | removed as of January 2020 |
| 181 | Standard | х | x | | 11.6 | | | | | | 11.6 | | coast redwood | Sequoia sempervirens | 55/6 | 10/10 | 10% very poor | very poor | | | | | | | | x | х | | removed as of January 2020 |
| 182 | Standard | x | x | | 21.2 | | | | | | 21.2 | | coast redwood | Sequola sempervirens | 65/12 | 5/5 | 5% very poor | very poor | | | | | | | | | x | | removed as of January 2020 |
| 183 | Standard | х | x | | 13.8 | | | | | | 13.8 | | Shamel ash | Fraxinus uhdei | 45/16 | 20/20 | 20% very poor | very poor | | | | | GR | | | | x | | removed as of January 2020 |
| 184 | Standard | х | x | | 11.9 | | | | | | 11.9 | | Shamel ash | Fraxinus uhdei | 45/12 | 5/5 | 5% very poor | very poor | | | | | | | | | x | | removed as of January 2020 |
| 185 | Standard | х | x | | 13.3 | | | | | | 13.3 | | Shamel ash | Fraxinus uhdei | 50/18 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | removed as of January 2020 |
| 186 | Standard | х | x | | 9.7 | | | | | | 9.7 | | Shamel ash | Fraxinus uhdei | 30/12 | 8/8 | 8% very poor | very poor | | | | | | | | | x | | removed as of January 2020 |
| 187 | Standard | х | | | 34.7 | | | | | | 34.7 | | coast redwood | Sequoia sempervirens | 55/25 | 60/60 | 60% fair | moderate | | | | | | | | | x | | removed as of January 2020 |
| 188 | Standard | х | x | | 12.2 | | | | | | 12.2 | | dollar gum seedling | Eucalyptus polyanthemos (seedling) | 50/20 | 20/20 | 20% very poor | very poor | N | N | | | | | | | x | | removed as of January 2020 |
| 189 | Standard | х | x | | 18.1 | | | | | | 18.1 | | coast redwood | Sequoia sempervirens | 60/20 | 40/40 | 40% poor | poor | | | | | | | | | x | | removed as of January 2020 |
| 190 | Standard | х | x | | 26.9 | | | | | | 26.9 | | coast redwood | Sequoia sempervirens | 70/25 | 40/40 | 40% poor | poor | | | | | | | | | x | | removed as of January 2020 |

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| 191 | Standard | х | | | | 17.5 | | | | | | 17.5 | | dollar gum seedling | Eucalyptus polyanthemos (seedling) | 60/35 | 60/50 | 58% fair | moderate | | s | | | | | | | | | removed as of January 2020 |
| 192 | Standard | х | | х | | 22.3 | | | | | | 22.3 | | coast redwood | Sequoia sempervirens | 70/12 | 10/10 | 10% very poor | very poor | | | | | | | | | | | removed as of January 2020 |
| 193 | Standard | x | | | | 21.0 | | | | | | 21.0 | | coast redwood | Sequola sempervirens | 70/16 | 50/50 | 50% fair | moderate | | | | | | | | | | | removed as of January 2020 |
| 194 | Standard | x | | | | 20.4 | | | | | | 20.4 | | dollar gum seedling | Eucalyptus polyanthemos (seedling) | 60/20 | 40/40 | 40% poor | poor | | | | | | | | х | x | | removed as of January 2020 |
| 195 | Standard | х | | х | | 27.6 | | | | | | 27.6 | | coast redwood | Sequola sempervirens | 70/20 | 30/30 | 30% poor | poor | | | | | | | | х | x | | removed as of January 2020 |
| 196 | Standard | x | | | | 19.5 | | | | | | 19.5 | | coast redwood | Sequola sempervirens | 55/20 | 55/55 | 55% fair | moderate | | | | | | | | х | x | | removed as of January 2020 |
| 197 | Standard | х | | | | 30.1 | | | | | | 30.1 | | coast redwood | Sequola sempervirens | 75/25 | 70/70 | 70% good | moderate | | | | | | | | х | x | | removed as of January 2020 |
| 198 | Standard | х | | | | 5.0 | | | | | | 5.0 | | evergreen pear | Pyrus kawakamii | 15/12 | 40/40 | 40% poor | poor | | | | | | | | | | Stunted. | removed as of January 2020 |
| 199 | Standard | х | | | | 6.0 | | | | | | 6.0 | | evergreen pear | Pyrus kawakamii | 20/13 | 40/40 | 40% poor | poor | | | | | GR | | | х | | Infected with bacterial fireblight. | removed as of January 2020 |
| 200 | Standard | x | | x | | 10.1 | | | | | | 10.1 | | evergreen pear | Pyrus kawakamli | 22/20 | 30/20 | 25% very poor | moderate | | | | | GR | | | х | | Infected with bacterial fireblight. | removed as of January 2020 |
| 201 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE |
| 202 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE |
| 203 | Standard | x | | x | | 18.6 | | | | | | 18.6 | | tulip tree (ID not verified - tree out of leaf during survey) | Liriodendron tulipifera | 60/20 | 0/0 | 0% dead | | | | | | GR | | | | | High risk of failure. Dead tree. | Removed as of January 2020 |
| 204 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE |

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| 205 | Standard | x | | | 36.0 | | | | | | 36.0 | | coast redwood | Sequoia sempervirens | 80/30 | 75/75 | 75% good | good | | | | | | | | | | Possible steep hillslope stability issues. | Removed as of January 2020 |
| 206 | Standard | x | | | 24.1 | | | | | | 24.1 | | coast redwood | Sequoia sempervirens | 75/20 | 75/65 | 70% good | good | | | | | | | | | | Possible steep hillslope stability issues. | Removed as of January 2020 |
| 207 | Standard | x | | | 29.9 | | | | | | 29.9 | | coast redwood | Sequola sempervirens | 80/25 | 75/40 | 50% fair | good | | | | | | | 25 | | | Possible steep hillslope stability issues. Needs arborist cabling between mainstems, or remove one of two mainstems, if retain tree. | Removed as of January 2020 |
| 208 | Standard | x | | | 32.2 | | | | | | 32.2 | | coast redwood | Sequoia sempervirens | 80/25 | 75/40 | 50% fair | good | | | | | | | 30 | | | Possible steep hillslope stability issues. Needs arborist cabling between mainstems, or remove one of two mainstems, if retain tree. | Removed as of January 2020 |
| 209 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE |
| 210 | Standard | х | | | 49.0 | | | | | | 49.0 | | coast redwood | Sequoia sempervirens | 85/25 | 75/60 | 65% fair | moderate | | | | | | | 65 | | | Possible stability issue on the hill. Roots may have been severed. | Removed as of January 2020 |
| 211 | Standard | x | | | 14.9 | | | | | | 14.9 | | coast redwood | Sequoia sempervirens | 50/15 | 65/65 | 65% fair | moderate | | | | | | | | x | x | | Removed as of January 2020 |
| 212 | Standard | x | | | 22.0 | | | | | | 22.0 | | coast redwood | Sequoia sempervirens | 65/15 | 75/75 | 75% good | moderate | | | | | | | | x | x | | Removed as of January 2020 |
| 213 | Standard | х | х | | 16.0 | | | | | | 16.0 | | tulip tree (ID not verified - tree out of leaf during survey) | Liriodendron tulipifera | 35/30 | 0/0 | 0% dead (Confirm in spring) | | w | | | | | | | | | Tree appears dead, but may simply be above ground dormant until spring leafout. | Removed as of January 2020 |
| 214 | Standard | x | x | | 31.3 | | | | | | 31.3 | | coast redwood | Sequola sempervirens | 75/25 | 75/65 | 70% good | moderate | | | | | | | | x | | | Removed as of January 2020 |
| 215 | Standard | х | | | 20.3 | | | | | | 20.3 | | fern pine | Podocarpus gracilior | 50/20 | 80/60 | 70% good | good | w | | | | | | | | | | Removed as of January 2020 |
| 216 | Standard | x | | | 15.4 | | | | | | 15.4 | | fern pine | Podocarpus gracilior | 50/20 | 75/65 | 70% good | good | w | | | | | | | | | | Removed as of January 2020 |
| 217 | Standard | x | | | 13.6 | | | | | | 13.6 | | fern pine | Podocarpus gracilior | 50/20 | 75/65 | 70% good | good | w | | | | | | | | | | Removed as of January 2020 |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinano Ordinano (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Worle Rd Were Updated in Fall, 2023. |
|-----------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|--|-------------------------------------|-----------------------------------|---|--|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|--|
| 218 | Standard | x | × | | 17.4 | | | | | | 17.4 | | tulip tree (ID not verified - tree out of leaf during survey) | Liriodendron tulipifera | 55/20 | 0/0 | 0% dead? (Verify once tree has leafed out in spring) | | w | | | | | | | | | Verify condition once tree has leafed out (or not) in spring. | Removed as of January 2020 |
| 219 | Street | x | | | 20.8 | | | | | | 20.8 | | Shamel ash | Fraxinus uhdei | 50/25 | 40/50 | 43% poor | poor to mod | w | | | | | | | x | | | Tree is in decline with an apparent overall condition of roughly 30% (Poor), REMOVED WITH PERMIT PER PLAN, DEVCON. JULY 2021. |
| 220 | Street | x | | | 26.8 | | | | | | 26.8 | | Shamel ash | Fraxinus uhdei | 55/35 | 25/25 | 25% Poor | poor | | | | | | | | | | | |
| 221 | Street | x | | | 19.3 | | | | | | 19.3 | | Shamel ash | Fraxinus uhdei | 50/25 | 25/25 | 25% Poor | poor | | | | | | | | | | | |
| 222 | Street | x | | | 19.5 | | | | | | 19.5 | | Shamel ash | Fraxinus uhdei | 55/35 | 40/25 | 30% poor | poor | | E | | | | | | | | | |
| 223 | Street | х | | | 30.4 | | | | | | 30.4 | | Shamel ash | Fraxinus uhdei | 55/40 | 50/35 | 40% poor | moderate | E | E | | | GR | | 12 | x | | | |
| 224 | Street | x | | | 18.4 | | | | | | 18.4 | | Shamel ash | Fraxinus uhdei | 50/15 | 40/50 | 40% poor | poor to mod | w | | | | | | | | | | Removed per plan on 10/22/2019 by clint magili, DEVCON. |
| 225 | Street | x | | | 25.4 | | | | | | 25.4 | | Shamel ash | Fraxinus uhdei | 55/35 | 25/30 | 28% Poor | poor | E | | | | | | | | | Roots severed on west side. | |
| 226 | Street | x | | | 15.5 | | | | | | 15.5 | | Shamel ash | Fraxinus uhdei | 45/25 | 20/20 | 20% Very Poor | very poor | E | E | | | | 0 to 1 | | | | Roots severed on west side. | |
| 227 | Street | x | x | | 18.5 | | | | | | 18.5 | | Shamel ash | Fraxinus uhdei | 45/25 | 30/20 | 25% very poor | poor | E | | | | | 0 to 5 | 14 | | | Roots severed on west side. | |
| 228 | Street | х | | | 11.5 | | | | | | 11.5 | | Shamel ash | Fraxinus uhdei | 30/25 | 40/30 | 35% poor | moderate | E | | | | | | | | | Roots severed on west side. | |
| 229 | Standard | x | | | 9.6 | | | | | | 9.6 | | coast redwood | Sequoia sempervirens | 25/12 | 90/90 | 90% excellent | good | | | | | | | | | | | Removed as of Jan, 2020. |
| 230 | Standard | x | | | 8.9 | | | | | | 8.9 | | coast redwood | Sequoia sempervirens | 30/14 | 90/90 | 90% excellent | good | | | | | | | | | | | Removed as of Jan, 2020. |
| 231 | Standard | x | | | 14.4 | | | | | | 14.4 | | Shamel ash | Fraxinus uhdei | 45/20 | 35/45 | 39% poor | poor | | | | | | | | | | | Removed as of Jan, 2020. |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2817 ONNASD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|-----------|--|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|---------------------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 232 | Standard | x | | | 19.3 | | | | | | 19.3 | | Shamel ash | Fraxinus uhdei | 55/30 | 40/45 | 42% poor | poor to mod | E | | | | | | | | | | Removed as of Jan, 2020. |
| 233 | Standard | x | | | 19.6 | | | | | | 19.6 | | Shamel ash | Fraxinus uhdei | 55/30 | 50/40 | 47% poor | moderate | E | | | | | 0 to 1 | | | | | Removed as of Jan, 2020. |
| 234 | Standard | x | | | 15.1 | | | | | | 15.1 | | Shamel ash | Fraxinus uhdei | 50/25 | 35/35 | 35% poor | poor | E | | | | | | | | | | Removed as of Jan, 2020. |
| 235 | Standard | x | | | 17.8 | | | | | | 17.8 | | Shamel ash | Fraxinus uhdei | 55/25 | 55/40 | 50% fair | moderate | | | | | | | | | | | Removed as of Jan, 2020. |
| 236 | Standard | x | | | 17.4 | | | | | | 17.4 | | Shamel ash | Fraxinus uhdei | 55/25 | 55/55 | 55% fair | moderate | | | | | | | | | | | Removed as of Jan, 2020. |
| 237 | Standard | x | | | 6.5 | | | | | | 6.5 | | Shamel ash | Fraxinus uhdei | 30/15 | 75/65 | 70% good | mod to good | | | | | | | | | | | Removed as of Jan, 2020. |
| 238 | Standard | x | | | 9.2 | | | | | | 9.2 | | Shamel ash | Fraxinus uhdei | 35/18 | 75/60 | 72% good | mod to good | | | | | | | | | | | Removed as of Jan, 2020. |
| 239 | Standard | x | | | 6.8 | | | | | | 6.8 | | Shamel ash | Fraxinus uhdei | 30/18 | 70/45 | 54% fair | mod to good | | | | | serious GR | | | | | | Removed as of Jan, 2020. |
| 240 | Standard | x | | | 8.1 | | | | | | 8.1 | | Shamel ash | Fraxinus uhdei | 30/18 | 70/60 | 70% good | mod to good | | | | | | | | | | | Removed as of Jan, 2020. |
| 241 | Standard | x | | | 6.4 | | | | | | 6.4 | | coast redwood | Sequola sempervirens | 30/10 | 85/85 | 85% good | good | | | | | | | | | | | Removed as of Jan, 2020. |
| 242 | Standard | x | | | 5.4 | | | | | | 5.4 | | coast redwood | Sequoia sempervirens | 30/10 | 85/85 | 85% good | good | | | | | | | | | | | Removed as of Jan, 2020. |
| 243 | Standard | х | | | 5.7 | | | | | | 5.7 | | coast redwood | Sequoia sempervirens | 30/10 | 85/85 | 85% good | good | | | | | | | | | | | Removed as of Jan, 2020. |
| 244 | Standard | х | | | 4.6 | | | | | | 4.6 | | coast redwood | Sequola sempervirens | 25/10 | 75/75 | 75% good | good | | | | | | | | | | | Removed as of Jan, 2020. |
| 245 | Standard | x | | | 6.7 | | | | | | 6.7 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 30/14 | 85/65 | 75% good | good | N | | | | | | | | | | Removed as of Jan, 2020. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10,0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Greek Blvd and N. Worle Rd Were Updated in Fall, 2023. |
|------------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|---------------------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|--|
| 246 | P. | x | | | 5.8 | | | | | | 5.8 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 25/13 | 85/60 | 68% fair | good | | | | | | | see notes | | | Two codominant mainstems. Remove one of two. | Removed as of Jan, 2020. |
| 247 | Standard | x | | | 4.9 | | | | | | 4.9 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 24/10 | 85/50 | 55% fair | moderate | N | | | | | | | | | Root crown anomaly. | Removed as of Jan, 2020. |
| 248 | Standard | x | | | 7.8 | | | | | | 7.8 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 30/18 | 85/55 | 62% fair | good | N | | | | | | Various elevations | | | | Removed as of Jan, 2020. |
| 249 | Standard | x | | | 6.5 | | | | | | 6.5 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 30/12 | 85/65 | 75% good | good | N | | | | | | | | | | Removed as of Jan, 2020. |
| 250 | Standard | x | | | 6.3 | | | | | | 6.3 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 30/12 | 85/55 | 60% fair | good | N | | | | | | 12 | | | | Removed as of Jan, 2020. |
| 251 | Standard | x | | | 6.1 | | | | | | 6.1 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 20/10 | 85/60 | 68% fair | good | | | | | | | | | | | Removed as of Jan, 2020. |
| 252 | Standard | x | | | 3.6 | | | | | | 3.6 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 18/8 | 85/75 | 80% good | good | | | | | | | | | | | Removed as of Jan, 2020. |
| 253 | Standard | x | | | 7.3 | | | | | | 7.3 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 30/15 | 85/65 | 73% good | good | | | | | | | | | | | Removed as of Jan, 2020. |
| 254 | Standard | x | | | 7.5 | | | | | | 7.5 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 30/18 | 85/55 | 63% fair | good | | | | | | | 7 | | | | Removed as of Jan, 2020. |
| 255 | Standard | x | | | 9.0 | | | | | | 9.0 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 30/20 | 85/45 | 55% fair | good | | | | x | | | 7 | | | | Removed as of Jan, 2020. |
| 256 | Standard | х | | | 7.5 | | | | | | 7.5 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 30/15 | 85/50 | 58% fair | good | | | | x | | | 7 | | | | Removed as of Jan, 2020. |
| 257 | Standard | x | | | 7.4 | | | | | | 7.4 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 30/15 | 85/55 | 65% fair | good | | | | x | | | 10 | | | | Removed as of Jan, 2020. |
| 258 | Standard | x | | | 6.7 | | | | | | 6.7 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 30/15 | 85/60 | 67% fair | good | | | х | x | | | | | | | Removed as of Jan, 2020. |
| 259 | Standard | x | | | 4.9 | | | | | | 4.9 | | flowering pear (out of leaf) | Pyrus calleryana Cult. | 25/12 | 85/65 | 69% fair | good | | | х | | | | | | | | Removed as of Jan, 2020. |

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|------------|-------------------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|------------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|--|
| 260 | Transplant-Street | | | discretionary transplant | x | 35.9 | | | | | | 35.9 | x | California sycamore | Platanus racemosa | 65/45 | 65/50 | 60% fair | moderate | w | w | | | | | | | | | TREE BEING MOVED DURING THE WEEK OF JULY 12, 2021 |
| 261 | Transplant-Street | | d | discretionary transplant | x | 22.8 | 21.9 | | | | | 44.7 | x | California sycamore | Platanus racemosa | 65/45 | 75/45 | 57% fair | moderate | | N&S | | | GR | See notes at right | At zero ft. | | | Bark sloughing at root crown, possibly due to irrigation water spray. | TREE BEING MOVED DURING THE WEEK OF JULY 12, 2021 |
| 262 | Transplant-Street | | d | discretionary transplant | x | 15.4 | | | | | | 15.4 | x | California sycamore | Platanus racemosa | 45/30 | 70/70 | 70% good | moderate | NE | NE | | | | 1 ft. | | | | | TREE BEING MOVED DURING THE WEEK OF JULY 12, 2021 |
| 263 | Street | x | | | | 13.5 | | | | | | 13.5 | | Shamel ash | Fraxinus uhdei | 35/15 | 50/45 | 47% poor | moderate | s | s | | | GR | | | | | | Tree condition is roughly the same as previously noted in past years. |
| 264 | Standard | x | | | | 14.9 | | | | | | 14.9 | | Shamel ash | Fraxinus uhdei | 55/20 | 55/55 | 55% fair | poor to mod | s | s | | | | | | | | | Removed as of Jan, 2020. |
| 265 | Standard | x | | | | 19.0 | | | | | | 19.0 | | Shamel ash | Fraxinus uhdei | 50/20 | 55/40 | 45% poor | moderate | | | | | GR | | 25 | | | | Removed as of Jan, 2020. |
| 266 | Standard | x | | | | 20.8 | | | | | | 20.8 | | Shamel ash | Fraxinus uhdei | 55/30 | 50/30 | 35% poor | poor to mod | | | | x | | | | | | Roots have been severed. | Removed as of Jan, 2020. |
| 267 | Standard | x | | | | 23.7 | | | | | | 23.7 | | Shamel ash | Fraxinus uhdei | 50/35 | 65/30 | 30% poor | good | sw | sw | | | GR | | | | | Roots have been severed. | Removed as of Jan, 2020. |
| 268 | Standard | x | | | | 26.5 | | | | | | 26.5 | | Shamel ash | Fraxinus uhdei | 55/25 | 75/55 | 65% fair | good | s | | | | | | | x | | | Removed as of Jan, 2020. |
| 269 | Standard | x | | | | 27.1 | | | | | | 27.1 | | Shamel ash | Fraxinus uhdei | 55/25 | 75/45 | 55% fair | good | | | | | serious GR | | 25 | x | | | Removed as of Jan, 2020. |
| 270 | Street | x | | | | 28.7 | | | | | | 28.7 | | Shamel ash | Fraxinus uhdei | 60/35 | 75/55 | 63% fair | good | | | | | | | 10 | | | Root system asymmetrical | Tree condition appears to be declining. Current condition rating is roughly 48% (Poor). |
| 271 | Standard | x | | | | 35.2 | | | | | | 35.2 | | coast redwood | Sequoia sempervirens | 60/20 | 70/70 | 70% good | moderate | | | | | | | | | x | | |
| 272 | Standard | x | | | | 19.3 | | | | | | 19.3 | | coast redwood | Sequoia sempervirens | 70/12 | 68/70 | 69% fair | moderate | | | | | | | | | x | | |
| 273 | Street | x | | | | 23.3 | | | | | | 23.3 | | coast redwood | Sequoia sempervirens | 60/12 | 70/70 | 70% good | moderate | | | | | | | | | x | | |

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| 274 | Street | x | | | 23.9 | | | | | | 23.9 | | coast redwood | Sequoia sempervirens | 60/12 | 70/70 | 70% good | moderate | | | | | | | | | x | | |
| 275 | Street | x | | | 17.0 | | | | | | 17.0 | | Shamel ash | Fraxinus uhdei | 55/16 | 65/65 | 65% fair | moderate | | | | | | | | | x | | |
| 276 | Street | x | | | 15.4 | | | | | | 15.4 | | Shamel ash | Fraxinus uhdei | 50/12 | 15/15 | 15% Very Poor | very poor | E | | | | | | at root crown | x | | | |
| 277 | Street | x | | | 19.3 | | | | | | 19.3 | | Shamel ash | Fraxinus uhdei | 50/25 | 30/25 | 27% Poor | poor | E | E | | | serious GR | | | x | | | |
| 278 | Street | x | | | 21.0 | | | | | | 21.0 | | Shamel ash | Fraxinus uhdei | 60/25 | 50/40 | 48% Poor | moderate | w | w | | | GR | | | | | | |
| 279 | Street | x | | | 26.7 | | | | | | 26.7 | | coast redwood | Sequoia sempervirens | 50/20 | 80/80 | 80% good | good | | | | | | | | | | | Tree condition appears to be declining, Current condition is roughly 70% (i.e. the low end of "Good" condition rating range). |
| 280 | Street | x | | | 16.4 | | | | | | 16.4 | | Shamel ash | Fraxinus uhdei | 40/20 | 30/30 | 30% Poor | poor | | | | | serious GR | | | x | | | |
| 281 | Street | X R | x | | 21.2 | | | | | | 21.2 | | Shamel ash | Fraxinus uhdei | 50/35 | 15/15 | 15% Very Poor | very poor | | | 6 | | | | | x | | Roots severed. | |
| 282 | Street | X R | | | 15.0 | | | | | | 15.0 | | Shamel ash | Fraxinus uhdei | 35/18 | 25/25 | 25% Poor | poor | ш | | | | GR | | | x | | Roots severed. | |
| 283 | Street | X R | x | | 18.1 | | | | | | 18.1 | | Shamel ash | Fraxinus uhdei | 50/20 | 35/35 | 35% poor | poor to mod | | E | | | GR | | | x | | Roots severed. | |
| 284 | Street | X R | | | 14.4 | | | | | | 14.4 | | Shamel ash | Fraxinus uhdei | 40/25 | 25/20 | 23% Poor | poor | | | | | GR | | | x | | | |
| 285 | Street | x | | | 18.4 | | | | | | 18.4 | | Shamel ash | Fraxinus uhdei | 50/25 | 40/30 | 35% Poor | poor to mod | E | E | | | GR | | | x | | Roots severed. | |
| 286 | Street | x | | | 17.0 | | | | | | 17.0 | | Shamel ash | Fraxinus uhdei | 40/45 | 60/60 | 60% fair | moderate | N | | | | | | | | | | DEVCON REMOVED TREE WITH PERMIT, PER PLAN, JULY, 2021. |
| 287 | Street | x | | | 24.3 | | | | | | 24.3 | | coast redwood | Sequoia sempervirens | 60/15 | 70/70 | 70% good | moderate | | | | | | | | | x | | DEVCON REMOVED TREE WITH PERMIT, PER PLAN, JULY, 2021. |

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| 288 | Street | x | | | 15.7 | | | | | | 15.7 | | coast redwood | Sequoia sempervirens | 60/15 | 70/70 | 70% good | moderate | | | | | | | | | x | | DEVCON REMOVED TREE WITH PERMIT, PER PLAN, JULY, 2021. |
| 289 | Street | х | х | | 26.9 | | | | | | 26.9 | | coast redwood | Sequoia sempervirens | 60/15 | 50/65 | 63% fair | moderate | | | | | | | | | х | Apical meristem showing physical symptoms of soil moisture deficit. | DEVCON REMOVED TREE WITH PERMIT, PER PLAN, JULY, 2021. |
| 290 | Street | х | | | 14.8 | | | | | | 14.8 | | Shamel ash | Fraxinus uhdei | 40/20 | 45/35 | 40% poor | poor to mod | w | | | | serious GR | | | x | | | DEVCON REMOVED TREE WITH PERMIT, PER PLAN, JULY, 2021. |
| 291 | Street | x | | | 24.2 | | | | | | 24.2 | | Shamel ash | Fraxinus uhdei | 50/40 | 55/45 | 48% poor | moderate | w | | | | serious GR | | 6 | | | | Tree in decline. Current condition is 36% (Poor). |
| 292 | Street | x | | | 16.3 | | | | | | 16.3 | | coast redwood | Sequoia sempervirens | 35/10 | 70/70 | 70% good | moderate | | | | | | | | | | | Tree is in decline due to chronic droughty conditions. Current condition rating is 60% (Fair). |
| 293 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE. |
| 294 | Standard | x | | | 18.7 | | | | | | 18.7 | | fern pine | Podocarpus gracilior | 30/18 | 50/40 | 45% poor | moderate | w | | | | | | 5 | x | | | Removed as of Jan, 2020 |
| 295 | Standard | х | | | 8.6 | | | | | | 8.6 | | southern magnolia | Magnolia grandiflora | 18/15 | 25/25 | 25% very poor | very poor | w | | 9 | | | | | x | х | | Removed as of Jan, 2020 |
| 296 | Standard | x | | | 17.3 | | | | | | 17.3 | | Shamel ash | Fraxinus uhdei | 30/15 | 35/35 | 35% poor | poor | w | w | | | | | | | | | Removed as of Jan, 2020 |
| 297 | Standard | x | x | | 12.1 | | | | | | 12.1 | | Shamel ash | Fraxinus uhdei | 25/15 | 35/20 | 20% very poor | poor | | | | | | 6 | | | | | Removed as of Jan, 2020 |
| 298 | Standard | х | х | | 18.8 | | | | | | 18.8 | | coast redwood | Sequoia sempervirens | 60/12 | 15/15 | 15% very poor | very poor | | | | | | | | | x | | Removed as of Jan, 2020 |
| 299 | Standard | x | | | 16.0 | | | | | | 16.0 | | Shamel ash | Fraxinus uhdei | 45/15 | 30/45 | 40% poor | poor | | E | | | | | | | | | Removed as of Jan, 2020 |
| 300 | Standard | x | х | | 23.3 | | | | | | 23.3 | | coast redwood | Sequola sempervirens | 60/15 | 20/20 | 20% very poor | very poor | | | | | | | | | х | | Removed as of Jan, 2020 |
| 301 | Standard | x | x | | 15.2 | | | | | | 15.2 | | Shamel ash | Fraxinus uhdei | 25/18 | 20/15 | 19% very poor | very poor | | | | | | | | | x | | Removed as of Jan, 2020 |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan | Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjus ted Trunk Diameter inches @54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Heath & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2817 DNNWARD. Condition Ratings for All Ash Specimers Acting Stevens Creek et viol and N. Wolfe Rd Were Updated in Fail, 2023. |
|------------|-----------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|--|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--|---|---|---|---------------------------------------|---|
| 302 | Standard | x | | | | 26.9 | 15.0 | | | | | 41.9 | | coast redwood | Sequoia sempervirens | 70/25 | 60/60 | 60% fair | moderate | | | | | | | | | x | | Removed as of Jan, 2020 |
| 303 | Standard | x | | | | 17.2 | | | | | | 17.2 | | Shamel ash | Fraxinus uhdei | 35/25 | 55/60 | 55% fair | moderate | NW | | | | | | | | | | Removed as of Jan, 2020 |
| 304 | Standard | x | | x | | 19.0 | | | | | | 19.0 | | coast redwood | Sequoia sempervirens | 45/10 | 5/5 | 5% very poor | very poor | | | | | | | | | x | | Removed as of Jan, 2020 |
| 305 | Standard | x | | x | | 20.1 | | | | | | 20.1 | | Shamel ash | Fraxinus uhdei | 20/15 | 10/10 | 10% very poor | | | | | x | | | 6 | | | | Removed as of Jan, 2020 |
| 306 | Standard | x | | | | 17.5 | | | | | | 17.5 | | Shamel ash | Fraxinus uhdei | 45/25 | 50/40 | 40% poor | poor to mod | w | | | | | | 8 | | | | Removed as of Jan, 2020 |
| 307 | Standard | x | | x | | 17.7 | | | | | | 17.7 | | Shamel ash | Fraxinus uhdei | 40/20 | 30/25 | 29% very poor | poor | | | | x | | 0 to 6 | | | | | Removed as of Jan, 2020 |
| 308 | Standard | x | | | | 21.1 | | | | | | 21.1 | | coast redwood | Sequoia sempervirens | 50/15 | 75/75 | 75% good | good | | | | | | | | | | | Removed as of Jan, 2020 |
| 309 | Standard | x | | | | 16.2 | | | | | | 16.2 | | coast redwood | Sequoia sempervirens | 50/15 | 75/70 | 73% good | good | | | | | | | | | | | Removed as of Jan, 2020 |
| 310 | Standard | x | | | | 20.6 | | | | | | 20.6 | | Shamel ash | Fraxinus uhdei | 50/35 | 50/50 | 50% fair | moderate | w | | | | | | | | | | Removed as of Jan, 2020 |
| 311 | Standard | x | | | | 27.0 | | | | | | 27.0 | | Shamel ash | Fraxinus uhdei | 55/45 | 65/55 | 60% fair | good | w | | | | | | 8 | | | | Removed as of Jan, 2020 |
| 312 | Standard | x | | | | 16.1 | | | | | | 16.1 | | Shamel ash | Fraxinus uhdei | 35/20 | 50/25 | 32% poor | moderate | w | | | | GR | at root crown due to sprinkler irrigation most likely | | | | | Removed as of Jan, 2020 |
| 313 | Standard | x | | | | 20.9 | | | | | | 20.9 | | Shamel ash | Fraxinus uhdei | 45/35 | 50/35 | 45% poor | poor | w | | | | GR | | | х | | | Removed as of Jan, 2020 |
| 314 | Standard | x | | | | 30.6 | | | | | | 30.6 | | Shamel ash | Fraxinus uhdei | 55/45 | 70/40 | 50% fair | Good | | | | x | | | 6 | | | Root system on steep slope | |
| 315 | Standard | x | | | | 21.8 | | | | | | 21.8 | | coast redwood | Sequoia sempervirens | 60/12 | 55/60 | 57% fair | moderate | E | | | | | | | | x | | 25% overall condition "very poor". |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan | Removed by highway Project Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) Trunk 2 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) Adjus ted Trunk Diame ter Inches @ 54" A.G. (142+3+44+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Sievens Creek Blvd and N. Wolle Rd Were Updated in Fall, 2022. |
|-----------|-------------|--|---|---|---------------|---------------|--|--|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 316 | Standard | x | | 18.5 | | | 18.5 | | Shamel ash | Fraxinus uhdei | 55/20 | 50/45 | 48% poor | moderate | N | | | | | | | | | Root system on steep slope | |
| 317 | Standard | x | | 10.2 | | | 10.2 | | Shamel ash | Fraxinus uhdei | 45/12 | 40/40 | 40% poor | poor | | | | | | | | | | | 35% overall condition "poor". |
| 318 | Standard | x | | 9.9 | | | 9.9 | | Shamel ash | Fraxinus uhdei | 50/12 | 45/45 | 45% poor | poor | | | | | | | | | | | |
| 319 | Standard | x | | 18.6 | | | 18.6 | | Shamel ash | Fraxinus uhdei | 50/30 | 50/50 | 50% fair | moderate | N | | | | | | | | | | |
| 320 | Standard | x | | 13.3 | | | 13.3 | | Shamel ash | Fraxinus uhdei | 35/12 | 50/40 | 45% poor | moderate | | | | | | | 7 | | | | |
| 321 | Standard | x | | 16.2 | | | 16.2 | | Shamel ash | Fraxinus uhdei | 50/20 | 55/60 | 56% fair | mod to good | | | | | | | | | x | | |
| 322 | Standard | x | | 11.9 | | | 11.9 | | Shamel ash | Fraxinus uhdei | 45/15 | 40/40 | 40% poor | poor | | | | | | | | | x | | |
| 323 | Standard | x | | 9.4 | | | 9.4 | | Shamel ash | Fraxinus uhdei | 45/12 | 30/30 | 30% poor | poor | | | | | | | | | x | | |
| 324 | Standard | x | | 12.8 | | | 12.8 | | Shamel ash | Fraxinus uhdei | 40/12 | 30/40 | 35% poor | poor | | | | | | | | | x | | |
| 325 | Standard | x | x | 7.4 | | | 7.4 | | Shamel ash | Fraxinus uhdei | 28/12 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | |
| 326 | Standard | х | | 13.0 | | | 13.0 | | Shamel ash | Fraxinus uhdei | 45/20 | 45/55 | 48% poor | poor | | | | | | | | | x | | |
| 327 | Standard | x | | 11.9 | | | 11.9 | | Shamel ash | Fraxinus uhdei | 45/12 | 30/30 | 30% poor | poor | | E | | | GR | | | | x | | |
| 328 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | TREE HAS BEEN REMOVED FROM LANDSCAPE. |
| 329 | Standard | x | | 14.2 | | | 14.2 | | Shamel ash | Fraxinus uhdei | 45/20 | 35/40 | 38% poor | poor | | s | | | | | | | x | | |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project Author Recommends | Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) Codominant Mainstems with Severe | (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2817 OWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|--|------------------------------|---|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|---|---------------|---|---|---|---|
| 330 | Standard | x | | | | 15.7 | | | | | | 15.7 | | Shamel ash | Fraxinus uhdei | 40/20 | 30/40 | 35% poor | poor | | s | | | | | | | x | | |
| 331 | Standard | x | | | | 10.1 | | | | | | 10.1 | | Shamel ash | Fraxinus uhdei | 30/20 | 40/35 | 37% poor | poor | s | ø | | | | | | | x | | |
| 332 | Standard | x | | x | | 18.9 | | | | | | 18.9 | | coast redwood | Sequoia sempervirens | 55/12 | 5/5 | 5% very poor | very poor | | | | | | | | | x | | 0% (Dead). |
| 333 | Standard | x | | x | | 18.4 | | | | | | 18.4 | | coast redwood | Sequoia sempervirens | 55/8 | 5/5 | 5% very poor | very poor | | | | | | | | | x | | 0% (Dead). |
| 334 | Standard | x | | | | 18.5 | | | | | | 18.5 | | Shamel ash | Fraxinus uhdei | 45/25 | 45/55 | 50% fair | moderate | | | | | | | | | x | | |
| 335 | Standard | x | | x | | 16.0 | | | | | | 16.0 | | coast redwood | Sequoia sempervirens | 50/12 | 5/5 | 5% very poor | very poor | | | | | | | | | x | | 0% (Dead). |
| 336 | Standard | x | | x | | 9.6 | | | | | | 9.6 | | Shamel ash | Fraxinus uhdei | 25/10 | 10/10 | 10% very poor | moderate | | | | | | mainstem | | | x | | |
| 337 | Standard | x | | x | | 8.8 | | | | | | 8.8 | | Shamel ash | Fraxinus uhdei | 25/7 | 5/5 | 5% very poor | very poor | | | | | | mainstem | | | x | | |
| 338 | Standard | x | | | | 8.7 | | | | | | 8.7 | | Shamel ash | Fraxinus uhdei | 30/8 | 30/10 | 15% very poor | poor | | | | | | mainstem | | | x | | |
| 339 | Standard | x | | | | 12.8 | | | | | | 12.8 | | Shamel ash | Fraxinus uhdei | 40/20 | 40/40 | 40% poor | poor | w | | | | | | | | x | | |
| 340 | Standard | x | | | | 14.3 | | | | | | 14.3 | | Shamel ash | Fraxinus uhdei | 50/20 | 35/40 | 38% poor | poor | | | | | | | | | x | | |
| 341 | Standard | x | | x | | 10.9 | | | | | | 10.9 | | Shamel ash | Fraxinus uhdei | 35/8 | 10/10 | 10% very poor | very poor | | | | | | mainstem | | | x | | |
| 342 | Standard | x | | x | | 12.0 | | | | | | 12.0 | | Shamel ash | Fraxinus uhdei | 45/18 | 10/10 | 10% very poor | very poor | | | | | | mainstem | | | x | | |
| 343 | Standard | х | | | | 13.7 | | | | | | 13.7 | | Shamel ash | Fraxinus uhdei | 45/18 | 35/35 | 35% poor | poor | | | | | | | | | x | Verify condition once tree leafs out in spring. | |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (142+3+4+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" mult, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & MOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 344 | Standard | x | x | | 7.3 | | | | | | 7.3 | | Shamel ash | Fraxinus uhdei | 20/12 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | |
| 345 | Standard | x | | | 14.4 | | | | | | 14.4 | | Shamel ash | Fraxinus uhdei | 50/20 | 40/30 | 35% poor | poor | | | | | | | 8 | | x | | |
| 346 | Standard | x | x | | 10.7 | | | | | | 10.7 | | Shamel ash | Fraxinus uhdei | 25/12 | 10/10 | 10% very poor | very poor | E | | | | | | | | x | | |
| 347 | Standard | x | x | | 11.3 | | | | | | 11.3 | | Shamel ash | Fraxinus uhdei | 25/12 | 25/10 | 17% very poor | poor | | | | | | | | | x | | |
| 348 | Standard | x | x | | 12.9 | | | | | | 12.9 | | Shamel ash | Fraxinus uhdei | 45/18 | 25/20 | 20% very poor | very poor | | | | | | | | | x | | |
| 349 | Standard | x | x | | 12.2 | | | | | | 12.2 | | Shamel ash | Fraxinus uhdei | 30/20 | 25/25 | 25% very poor | very poor | | | | | | | | | x | | |
| 350 | Standard | x | x | | 14.2 | | | | | | 14.2 | | Shamel ash | Fraxinus uhdei | 50/15 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | |
| 351 | Standard | x | | | 14.6 | | | | | | 14.6 | | Shamel ash | Fraxinus uhdei | 30/20 | 40/25 | 28% very poor | poor to mod | | | | | | | 6 | | x | | |
| 352 | Standard | x | | | 11.7 | | | | | | 11.7 | | Shamel ash | Fraxinus uhdei | 25/20 | 10/10 | 10% very poor | very poor | w | w | | | | | | | x | | |
| 353 | Standard | x | | | 17.7 | | | | | | 17.7 | | Shamel ash | Fraxinus uhdei | 40/25 | 35/35 | 35% poor | poor | E | | | | | | | | x | | |
| 354 | Standard | x | | | 13.4 | | | | | | 13.4 | | Shamel ash | Fraxinus uhdei | 35/20 | 45/35 | 40% poor | poor | | | | | | | | | x | | |
| 355 | Standard | x | | | 12.5 | | | | | | 12.5 | | Shamel ash | Fraxinus uhdei | 35/15 | 20/15 | 18% very poor | very poor | | | | | | | | | x | | |
| 35€ | Standard | х | | | 18.0 | | | | | | 18.0 | | Shamel ash | Fraxinus uhdei | 45/30 | 20/10 | 15% very poor | very poor | w | s | | | | | | | x | | Removed with permit per plan, in July, 2021 by Sand Hill Property Co. |
| 357 | Standard | x | | | 20.8 | | | | | | 20.8 | | Shamel ash | Fraxinus uhdei | 45/45 | 40/50 | 46% poor | М | | | | | | | | | x | | Removed with permit per plan, in July, 2021 by Sand Hill Property Co. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project | Author Recommends Removal Due to Very Poor Condition or Elev ated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | 'Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" muti, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Spiltout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|--|---------|---|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|-----------------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|--|
| 358 | Standard | x | | | | 10.9 | | | | | | 10.9 | | Shamel ash | Fraxinus uhdei | 35/15 | 0/0 | 0% dead | E | E | | | | | | | | x | | Removed with permit per plan, in July, 2021 by Sand Hill Property Co. |
| 359 | Standard | x | | | | 18.3 | | | | | | 18.3 | | Pine species (not verified) | Pinus sp. | 30/20 | 80/55 | 65% fair | good | N | | | | | 0 to 1 foot | | x | | | Removed with permit per plan, in July, 2021 by Sand Hill Property Co. |
| 360 | Standard | x | | | | 24.4 | | | | | | 24.4 | | Italian stone pine | Pinus pinea | 30/35 | 90/60 | 77% good | excellent | | | | | | | | | | | Removed with permit per plan, in July, 2021 by Sand Hill Property Co. |
| 361 | Standard | x | | | | 26.6 | | | | | | 26.6 | | Italian stone pine | Pinus pinea | 30/30 | 60/60 | 60% fair | moderate | | | | | | | | x | x | Measured at 2 feet. | 65% overall condition "fair". |
| 362 | Standard | x | | | | 28.6 | | | | | | 28.6 | | Italian stone pine | Pinus pinea | 25/35 | 70/70 | 70% good | good | | | | | | | | x | | Measured at 2 feet. | 50% overall condition "fair". |
| 363 | Standard | x | | x | | 7.2 | | | | | | 7.2 | | red oak | Quercus rubra (not verified) | 20/15 | 80/50 | 60% fair | good | | | | | | | | | | Tree out of leaf. Needs training pruning. | 10% overall condition "very poor". |
| 364 | Standard | x | | x | | 5.5 | | | | | | 5.5 | | oak species | Quercus sp. | 12/8 | 60/40 | 40% poor | moderate | | | | x | | | 5 | | | Tree out of leaf. Needs training pruning. | 5% overall condition "very poor". |
| 365 | Standard | x | | x | | 7.3 | | | | | | 7.3 | | southern magnolia | Magnolia grandiflora | 18/13 | 40/40 | 40% poor | poor to mod | | | | | | | | | x | | 10% overall condition "very poor". |
| 366 | Standard | x | | | | 17.0 | | | | | | 17.0 | | Italian stone pine | Pinus pinea | 18/25 | 80/50 | 60% fair | good | N | | | | | | | x | | Measured at 3.5 feet | 50% overall condition "fair". |
| 367 | Standard | x | | x | | 24.3 | | | | | | 24.3 | | Italian stone pine | Pinus pinea | 25/30 | 80/35 | 45% poor | good | N | | | | | | 5 | x | | | 20% overall condition "very poor". |
| 368 | Standard | x | | | | 20.2 | | | | | | 20.2 | | Italian stone pine | Pinus pinea | 25/30 | 80/35 | 45% poor | good | N | | | | GR | | 7 | x | | Measured at 3.5 feet. | 30% overall condition "poor". |
| 369 | Standard | x | | | | 23.8 | | | | | | 23.8 | | Italian stone pine | Pinus pinea | 25/30 | 50/50 | 50% fair | poor to mod | | | 10 | | | | | | | Measured at 2.0 feet. | 38% overall condition "poor". |
| 370 | Standard | x | | | | 5.7 | | | | | | 5.7 | | tree species out of leaf | (Genus, species) | 25/15 | 75/55 | 65% fair | moderate | | | | | | | | | | Verify species in spring after full leafout. | |
| 371 | Standard | x | | | | 26.3 | | | | | | 26.3 | | Aleppo pine | Pinus halepensis | 30/35 | 80/60 | 70% good | good | | | | | | | | x | | Codominant mainstems at 5 feet. | 50% overall condition "fair". |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan | Removed by highway Project Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimes Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|--|---|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|----------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|---|
| 372 | Standard | x | | | 21.6 | 18.7 | | | | | 40.3 | | Italian stone pine | Pinus pinea | 30/35 | 80/70 | 75% good | good | N | | | | | | | x | | | 65% overall condition "fair". |
| 373 | Standard | x | x | | 7.4 | | | | | | 7.4 | | southern magnolia | Magnolia grandiflora | 20/15 | 25/25 | 25% very poor | very poor | | | | | | | | | x | | 20% overall condition "very poor". |
| 374 | Standard | x | x | | 7.2 | | | | | | 7.2 | | tulip tree | Liriodendron tulipifera | 12/8 | 20/10 | 15% very poor | very poor | N | | | x | | | | x | x | | In parking lot of Benihana near Hyatt construction project. Sandia #1225. |
| 375 | Standard | x | x | | 5.6 | | | | | | 5.6 | | tulip tree | Liriodendron tulipifera | 12/8 | 20/10 | 15% very poor | very poor | | | | x | | | | x | x | | In parking lot of Benihana near Hyatt construction project. Sandis #1224. |
| 376 | Standard | x | x | | 5.6 | | | | | | 5.6 | | southern magnolia | Magnolia grandiflora | 13/10 | 25/25 | 25% very poor | very poor | | | | | | | | | x | | 10% overall condition "very poor". |
| 377 | Standard | x | x | | 7.6 | | | | | | 7.6 | | southern magnolia | Magnolia grandiflora | 19/12 | 35/35 | 35% poor | poor | | | | | | | | | x | | 20% overall condition "very poor". |
| 378 | Standard | x | x | | 7.0 | | | | | | 7.0 | | southern magnolia | Magnolia grandiflora | 20/14 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | 20% overall condition "very poor". FAILED 3/14/2023. REMOVED FROM SITE BY SHPCO. |
| 379 | Standard | x | x | | 6.5 | | | | | | 6.5 | | southern magnolia | Magnolia grandiflora | 14/12 | 25/25 | 25% very poor | very poor | | | | | | | | | x | | 20% overall condition "very poor". |
| 380 | Standard | x | x | | 7.4 | | | | | | 7.4 | | southern magnolia | Magnolia grandiflora | 20/10 | 20/20 | 20% very poor | very poor | w | | | | | | | | x | | 20% overall condition "very poor". |
| 381 | Standard | x | | | 23.0 | 14.7 | | | | | 37.7 | | Italian stone pine | Pinus pinea | 25/30 | 75/55 | 64% fair | moderate | | | | | | | 5 | x | | | 43% overall condition "poor". |
| 382 | Standard | x | | | 20.8 | | | | | | 20.8 | | Italian stone pine | Pinus pinea | 25/25 | 70/60 | 65% fair | moderate | | | | | GR | | | x | | | 53% overall condition "fair". |
| 383 | Standard | x | | | 19.5 | | | | | | 19.5 | | Italian stone pine | Pinus pinea | 25/30 | 80/65 | 74% good | good | | E | | | GR | | | x | | | 44% overall condition "poor". |
| 384 | Standard | x | | | 22.0 | | | | | | 22.0 | | Italian stone pine | Pinus pinea | 25/30 | 70/60 | 65% fair | moderate | s | s | | | | | | x | | Measured at 2.0 feet. | 50% overall condition "fair". |
| 385 | Standard | x | | | 33.2 | | | | | | 33.2 | | Italian stone pine | Pinus pinea | 25/35 | 60/30 | 38% poor | moderate | s | | | | | | 3 | x | | | 42% overall condition "poor". |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) | | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2917 OWARD, Condition Ratings for All Ash Specimens Along Stevens Cree Bled and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|--|--|--|-------|---------------|---------------|---------------|---------------|---------------|---|---|-----------------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 386 | Standard | x | x | 4. | .5 | | | | | | 4.5 | | southern magnolia | Magnolia grandiflora | 13/8 | 15/15 | 15% very poor | very poor | | | | | | | 1 | x | x | | 10% overall condition "very poor". |
| 387 | Standard | x | x | 7. | 8 | | | | | | 7.8 | | southern magnolia | Magnolia grandiflora | 18/18 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | 30% overall condition "poor". |
| 388 | Standard | x | x | 7. | .5 | | | | | | 7.5 | | southern magnolia | Magnolia grandiflora | 18/15 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | 15% overall condition "very poor". |
| 389 | Standard | x | | 31 | .9 2 | 22.3 | | | | | 54.2 | | Italian stone pine | Pinus pinea | 30/45 | 50/40 | 47% poor | moderate | | | | | | | 2 | x | | | 44% overall condition "poor". |
| 390 | Standard | x | | 13 | i.2 1 | 13.0 | | | | | 26.2 | | Italian stone pine | Pinus pinea | 25/15 | 80/30 | 45% poor | good | N | N | | | | | 3 | x | | | 35% overall condition "poor". |
| 391 | Standard | x | | 12 | L4 1 | 12.0 | | | | | 24.4 | | Italian stone pine | Pinus pinea | 25/30 | 80/60 | 67% fair | good | E | E | | | | | 3 | x | | | 45% overall condition "poor". |
| 392 | Standard | x | | 14 | i.6 | | | | | | 14.6 | | Italian stone pine | Pinus pinea | 25/18 | 80/65 | 69% fair | good | E | | | | | | | x | | | 40% overall condition "poor". |
| 393 | Standard | x | | 14 | 1.3 | | | | | | 14.3 | | Italian stone pine | Pinus pinea | 20/20 | 70/70 | 70% good | good | | E | | | | | | x | | | 55% overall condition "fair". |
| 394 | Standard | x | | 10 | 1.3 | | | | | | 10.3 | | tree species out of leaf | (Genus, species) | 35/20 | 80/65 | 75% good | good | | | | | | | | | | | |
| 395 | Standard | x | | 9. | .8 | | | | | | 9.8 | | tree species out of leaf | (Genus, species) | 35/20 | 80/65 | 75% good | good | w | | | | | | | | | | |
| 396 | Standard | x | x | 18 | и | | | | | | 18.1 | | coast redwood | Sequoia sempervirens | 65/12 | 70/70 | 70% good | moderate | | | | | | | | | | Steep slope | 15% overall condition "very poor". |
| 397 | Standard | х | x | 20 | 1.5 | | | | | | 20.5 | | coast redwood | Sequoia sempervirens | 65/12 | 75/75 | 75% good | moderate | | | | | | | | | | Steep slope | 25% overall condition "very poor". |
| 398 | Standard | х | | 13 | 1.4 | | | | | | 13.4 | | Shamel ash | Fraxinus uhdei | 40/25 | 80/70 | 74% good | good | | | | | | | | | | Steep slope | |
| 399 | Standard | x | | 11 | .3 | | | | | | 11.3 | | Shamel ash | Fraxinus uhdei | 35/15 | 30/30 | 30% poor | poor | | | | | | | | | | Steep slope | |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project Author Recommends | Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" states stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2022. |
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| 400 | Standard | x | | | | 21.3 | | | | | | 21.3 | | Shamel ash | Fraxinus uhdei | 40/25 | 60/50 | 55% fair | moderate | | | | | | | 6 | | | Steep slope | |
| 401 | Standard | x | | | | 20.2 | | | | | | 20.2 | | Shamel ash | Fraxinus uhdei | 45/20 | 50/35 | 40% poor | moderate | w | | | | | 8 | 10 | | | On steep slope. | |
| 402 | Standard | x | | | | 18.4 | | | | | | 18.4 | | Shamel ash | Fraxinus uhdei | 45/25 | 60/45 | 55% fair | good | | | | | | | 6 | | | On steep slope. | |
| 403 | Standard | x | | | | 15.0 | | | | | | 15.0 | | Shamel ash | Fraxinus uhdei | 40/18 | 40/40 | 40% poor | poor | w | | | | | 6 | 8 | | | On steep slope. | |
| 404 | Standard | x | | | | 25.7 | | | | | | 25.7 | | Shamel ash | Fraxinus uhdei | 55/35 | 40/40 | 40% poor | poor | sw | | | | | | various elevations | | | On steep slope. | |
| 405 | Standard | x | | | | 29.5 | | | | | | 29.5 | | Shamel ash | Fraxinus uhdei | 65/35 | 40/35 | 40% poor | poor | s | s | | | | | 7 | | | On steep slope. | |
| 406 | Standard | x | | x | | 17.4 | | | | | | 17.4 | | coast redwood | Sequoia sempervirens | 50/8 | 70/70 | 70% good | moderate | | | | | | | | | | On steep slope. | 25% overall condition "very poor". |
| 407 | Standard | x | | x | | 4.1 | | | | | | 4.1 | | southern magnolia | Magnolia grandiflora | 15/1 | 5/5 | 5% very poor | very poor | | | | | | | 0 to 10 | | | | 0% (Dead) |
| 408 | Standard | x | | x | | 5.9 | 3.8 | | | | | 9.7 | | southern magnolia | Magnolia grandiflora | 18/6 | 10/10 | 10% very poor | very poor | | | | | | | various elevations | | | | 10% overall condition "very poor". |
| 409 | Standard | x | | | | 18.3 | | | | | | 18.3 | | coast redwood | Sequoia sempervirens | 55/15 | 65/65 | 65% fair | moderate | | | | | | | | х | | | 50% overall condition "fair". |
| 410 | Standard | x | | | | 20.7 | | | | | | 20.7 | | coast redwood | Sequoia sempervirens | 55/13 | 65/65 | 65% fair | moderate | | | | | | | | х | | | 50% overall condition "fair". |
| 411 | Standard | x | | | | 22.4 | | | | | | 22.4 | | coast redwood | Sequoia sempervirens | 55/13 | 60/60 | 60% fair | poor to mod | | | | | | | | х | | | 40% overall condition "poor". |
| 412 | Standard | x | | | | 32.4 | | | | | | 32.4 | | Shamel ash | Fraxinus uhdei | 65/35 | 65/55 | 65% fair | good | s | | | | | | | | | | Removed Aug, 2019. |
| 413 | Standard | x | | | | 15.6 | | | | | | 15.6 | | Shamel ash | Fraxinus uhdei | 60/18 | 50/40 | 45% poor | poor to mod | N | | | | | | | | | | Removed Aug, 2019. |

| Tree Tag # | | To be Removed Per Current Site Plan | Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (142+3+4+5) | Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Spiltout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Pall, 2023. |
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| 414 | Transpl | | R | discretionary transplant | x | 22.5 | | | | | | 22.5 | x | California sycamore | Platanus racemosa | 55/30 | 50/45 | 50% fair | moderate | w | w | | | GR | | | | | Will need endweight reduction pruning at west side of canopy. | Team proposes to transplant tree. Current condition roughly the same as previously noted in past years. |
| 415 | Transp | | | discretionary transplant | x | 18.3 | | | | | | 18.3 | x | California sycamore | Platanus racemosa | 60/30 | 50/50 | 50% fair | moderate | N | | | | GR | | | | | | Team proposes to transplant tree. Current condition roughly the same as previously noted in past years. |
| 416 | Transplant-Street | | | discretionary transplant | х | 17.8 | | | | | | 17.8 | x | California sycamore | Platanus racemosa | 50/20 | 50/50 | 50% fair | moderate | E | | | | GR | | | | | | Team proposes to transplant tree. Current condition roughly the same as previously noted in past years. |
| 417 | Standard | x | | | | 19.2 | | | | | | 19.2 | | Shamel ash | Fraxinus uhdei | 30/25 | 75/55 | 70% good | good | | | | | | | | | | | Removed per plan August 2019. |
| 418 | Standard | x | | | | 11.5 | | | | | | 11.5 | | Shamel ash | Fraxinus uhdei | 30/15 | 45/40 | 40% poor | moderate | | | | | GR | | | | | | Removed per plan August 2019. |
| 419 | Standard | x | | | | 17.3 | | | | | | 17.3 | | Shamel ash | Fraxinus uhdei | 35/40 | 60/50 | 55% fair | moderate | w | | | | GR | | | | | | Removed per plan August 2019. |
| 420 | Standard | х | | | | 11.1 | | | | | | 11.1 | | Shamel ash | Fraxinus uhdei | 35/25 | 75/70 | 70% good | good | w | | | | | | | | | | Removed per plan August 2019. |
| 421 | Standard | х | | | | 13.7 | | | | | | 13.7 | | Shamel ash | Fraxinus uhdei | 35/25 | 50/50 | 50% fair | poor to mod | | | | | | | | | | | Removed per plan August 2019. |
| 422 | Standard | x | | | | 14.3 | | | | | | 14.3 | | Shamel ash | Fraxinus uhdei | 30/30 | 75/45 | 60% fair | good | | | | | | | 9 | | | | Removed per plan August 2019. |
| 423 | Standard | x | | | | 29.1 | | | | | | 29.1 | | coast redwood | Sequoia sempervirens | 70/20 | 70/70 | 70% good | moderate | | | | | | | | | | | Removed per plan August 2019. |
| 424 | Standard | x | | | | 33.6 | | | | | | 33.6 | | coast redwood | Sequoia sempervirens | 70/18 | 60/60 | 60% fair | moderate | | | | | | | | | | | Removed per plan August 2019. |
| 425 | Standard | x | | | | 24.9 | | | | | | 24.9 | | coast redwood | Sequoia sempervirens | 65/15 | 70/70 | 70% good | moderate | | | | | | | | | | | Removed per plan August 2019. |
| 426 | Standard | x | | | | 27.8 | | | | | | 27.8 | | coast redwood | Sequoia sempervirens | 55/20 | 75/68 | 70% good | moderate | | | | | | | | | | | Removed per plan August 2019. |
| 427 | Standard | x | R | | | 17.3 | | | | | | 17.3 | | Shamel ash | Fraxinus uhdei | 60/20 | 40/40 | 40% poor | poor | E | | | | | | | x | | | Removed per plan August 2019. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan | Removed by highway Project Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires Trunk 1 (in.) Trunk 2 (in.) Trunk 3 (in.) | Trunk 4 (in.) Trunk 5 (in.) | Trunk 6 (in.) Adjus ted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | Protected Tree" per City of Cupertino Ordinance Ordinance Ordinance Multi various appecified native and non-native species) | ommon Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | maniscens with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2917 OWWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|--|---|--|--------------------------------|--|---|--------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|--|
| 428 | Street | x | R | 29.0 | | 29.0 | S | Shamel ash | Fraxinus uhdei | 60/35 | 25/25 | 25% Poor | poor | w | | | | | | | | | | Tree is declining. Appears to be in 40% overall condition (Poor), with normal leaf senescence plus twig and branch dieback from drought-induced decline. TREE STILL DECUNING IN 2022 DUE TO DROUGHT. |
| 429 | Street | x | R | 22.0 | | 22.0 | S | Shamel ash | Fraxinus uhdei | 55/35 | 70/55 | 65% fair | good | | | | | | | | | | Codominant mainstems fork at 13 feet. | Tree is declining. Appears to be in 45% overall condition (Poor). Tree is to be removed and posted as such as of May, 2020 (approved by City of Cuperino City Staff) in order to accommodate uniforseen utility installation(s). |
| 430 | Street | x | R X | 27.4 | | 27.4 | gia | iant sequoia | Metasequoia glyptostroboides | 75/15 | 65/45 | 55% fair | poor to mod | | | | | | | | | | Tree was limbed up. | TREE IS DEAD. TREE REQUIRES REMOVAL FROM THE LANDSCAPE. Approved in Jan 2022 for removal by Mick Bench. Removed by shpco in Sept 2022. |
| 431 | Street | x | | 27.9 | | 27.9 | S | Shamel ash | Fraxinus uhdei | 65/45 | 25/25 | 25% Poor | poor | w | E | | | | | 9 | | | | Tree in decline, with a current overall condition of 34% or "Poor". |
| 432 | Street | x | | 24.0 | | 24.0 | Si | Shamel ash | Fraxinus uhdei | 55/35 | 25/25 | 25% Poor | poor | w | | | | | | | | | | Tree in decline, with a current overall condition of 44% or "Poor". |
| 433 | Street | x | | 16.9 | | 16.9 | Si | Shamel ash | Fraxinus uhdei | 60/25 | 55/40 | 48% Fair | moderate | E | E | | | | | | | | | Tree in decline, with a current overall condition of 50% or "Fair". ("Fair" ranges from 50% to 69%). |
| 434 | Street | x | x | 29.3 | | 29.3 | gia | iant sequoia | Metasequoia glyptostroboides | 75/12 | 35/20 | 25% very poor | poor | E | | | x | | | | | | Roots were severed during installation of ADA walkway. | TREE IS DEAD. TREE REQUIRES REMOVAL FROM THE LANDSCAPE. Approved in Jan 2022 for removal by Mick Bench. Removed by shpco in Sept 2022. |
| 435 | Street | x | х | 31.1 | | 31.1 | Si | Shamel ash | Fraxinus uhdei | 65/45 | 30/25 | 28% Poor | poor | w | | | | GR | | | | | Roots severed during sidewalk replacement | Same condition as previous. |
| 436 | Street | x | | 23.0 12.0 | | 35.0 | COE | past redwood | Sequoia sempervirens | 65/18 | 75/60 | 65% fair | good | | | | | | | 3 | | | Diameters estimated. | |
| 437 | Street | x | | 27.7 | | 27.7 | Si | Shamel ash | Fraxinus uhdei | 60/30 | 25/20 | 23% Poor | poor | w | | | | | | 9 | | | | Tree currently in the same condition as previously noted. |
| 438 | Street | x | R X | 23.5 | | 23.5 | S | Shamel ash | Fraxinus uhdei | 65/18 | 60/30 | 37% poor | moderate | E | | | | | | | | | Roots severed during sidewalk replacement | |
| 439 | Street | x | | 27.0 | | 27.0 | COS | past redwood | Sequoia sempervirens | 75/16 | 70/70 | 70% good | good | | | | x | | | | | | Crown raising pruning was performed to limb up this tree. | 45% overall condition "poor". |
| 440 | Street | x | x | 18.7 | | 18.7 | S | Shamel ash | Fraxinus uhdei | 60/30 | 20/20 | 20% Very Poor | very poor | w | w | | | | | 1 | | | Condition estimated prior to spring leafout. | Tree currently in 28% overall condition (Very Poor). Tree suggested by WLCA to be removed. |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan | Removed by highway Project Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) Trunk 2 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specifier native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blwd and N. Wolfe Rd Were Updated in Pall, 2923. |
|-----------|-----------|--|---|---|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|--|
| 441 | Street | x | x | 21.2 | | | 21.2 | | Shamel ash | Fraxinus uhdei | 60/45 | 15/20 | 17% Very Poor | very poor | | | | | | | 1 | | | Roots severed during sidewalk replacement | Tree currently in 28% overall condition (Very Poor). Tree suggested by WLCA to be removed. |
| 442 | Street | x | R | 31.2 | | | 31.2 | | Shamel ash | Fraxinus uhdei | 60/45 | 40/35 | 38% poor | moderate | w | s | | | | | | | | Roots severed during sidewalk replacement . Will need endweight reduction pruning. | Tree appears to be in decline. Current overall condition is 45% (Poor). |
| 443 | Street | x | R | 41.0 | | | 41.0 | | coast redwood | Sequoia sempervirens | 70/20 | 75/60 | 68% fair | good | | | | | | | 5 | | | Cable installation recommended. | 45% overall condition "poor". |
| 444 | Street | x | | 21.5 | | | 21.5 | | Shamel ash | Fraxinus uhdei | 55/30 | 40/30 | 35% Poor | moderate | w | | | | | | | | | | |
| 445 | Standard | x | | 15.4 | | | 15.4 | | Shamel ash | Fraxinus uhdei | 60/18 | 50/50 | 50% fair | moderate | N | | | x | | | | | | | Removed as of August 2019. |
| 446 | Standard | x | | 21.1 | | | 21.1 | | coast redwood | Sequoia sempervirens | 70/15 | 75/75 | 75% good | good | | | | | | | | | | | Removed as of August 2019. |
| 447 | Standard | x | | 17.5 | | | 17.5 | | Shamel ash | Fraxinus uhdei | 60/20 | 55/50 | 52% fair | poor to mod | z | | | | | | | | | | Removed as of August 2019. |
| 448 | Standard | x | | 15.7 | | | 15.7 | | coast redwood | Sequoia sempervirens | 70/10 | 60/60 | 60% fair | moderate | E | | | | | | | | | Tree was limbed up. | Removed as of August 2019. |
| 449 | Standard | x | | 16.5 | | | 16.5 | | coast redwood | Sequoia sempervirens | 70/10 | 60/60 | 60% fair | moderate | E | | | | | | | | | Tree was limbed up. | Removed as of August 2019. |
| 450 | Street | x | | 15.5 | | | 15.5 | | coast redwood | Sequola sempervirens | 70/10 | 60/50 | 55% fair | moderate | E | | | | | | | | | Tree was limbed up. | 50% overall condition "fair". |
| 451 | Street | x | R | 19.6 | | | 19.6 | | Shamel ash | Fraxinus uhdei | 50/25 | 50/55 | 52% fair | moderate | w | | | | | | | | | | |
| 452 | Street | x | | 21.5 | | | 21.5 | | Shamel ash | Fraxinus uhdei | 55/30 | 50/35 | 40% poor | poor to mod | w | | | | | | 0 to 2 | | | | Current condition rating is roughly the same as noted in previous years. |
| 453 | Street | x | x | 15.0 | | | 15.0 | | Shamel ash | Fraxinus uhdei | 50/10 | 10/10 | 10% very poor | very poor | | | | | | | | | | | |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinano Ordinano (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Dens ity (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Spiltout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Cree Blod and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|---|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|---|
| 45 | Street | x | | | 29.4 | | | | | | 29.4 | | Shamel ash | Fraxinus uhdei | 65/35 | 50/40 | 47% poor | poor to mod | | | | | | | 12 | | | Roots damaged. | Current condition rating is roughly the same as previously noted in past years. |
| 45 | Street | x | | | 17.7 | | | | | | 17.7 | | Shamel ash | Fraxinus uhdei | 45/18 | 30/35 | 33% poor | poor | E | | | | | | | | | Roots damaged. | |
| 45 | Street | x | | | 22.3 | | | | | | 22.3 | | Shamel ash | Fraxinus uhdei | 60/20 | 40/35 | 37% poor | poor | w | w | | | | | 15 | | | | Same condition rating as noted in prior years. |
| 45 | Street | x | | | 28.5 | | | | | | 28.5 | | Shamel ash | Fraxinus uhdei | 65/35 | 50/60 | 55% fair | moderate | w | | | | | | | | | | May be declining in condition. Current condition is roughly 45% (Poor). |
| 45 | Street | x | | | 25.1 | | | | | | 25.1 | | Shamel ash | Fraxinus uhdei | 60/35 | 30/40 | 35% poor | poor to mod | | | | | | | various elevations | | | Bark sluffing off. Phloem/bark disorder. | Same condition rating as noted in prior years. |
| 459 | Street | x | | | 31.9 | | | | | | 31.9 | | Shamel ash | Fraxinus uhdei | 75/45 | 60/60 | 60% fair | moderate | | | | | | | | | | Roots damaged. | |
| 46 | Street | x | | | 31.8 | | | | | | 31.8 | | Shamel ash | Fraxinus uhdei | 65/45 | 25/25 | 25% Poor | poor | | | | | | | | | | Roots damaged. | |
| 46 | Street | x | | | 25.5 | | | | | | 25.5 | | Shamel ash | Fraxinus uhdei | 55/40 | 25/25 | 25% Poor | poor to mod | | | | | | | 15 | | | | Tree declining. Current overall condition is roughly 35% (Poor). Extensive twig dieback apparent. |
| 463 | Street | x | x | | 15.3 | | | | | | 15.3 | | Shamel ash | Fraxinus uhdei | 40/15 | 40/40 | 40% poor | moderate | | | | | | | 8 | | | | Tree declining. Current overall condition is roughly 28% (Very Poor). Tissue necrosis and bark inclusion at fork noted. Trees in very poor condition are typically suggested to be removed. |
| 46 | Street | x | | | 21.0 | | | | | | 21.0 | | Shamel ash | Fraxinus uhdei | 55/45 | 40/30 | 35% Poor | good | w | | | | | | | | | Roots damaged. | Tree appears to be in decline due to chronic drought conditions. Current overall condition roughly 55% (Fair). |
| 464 | Street | x | | | 34.1 | | | | | | 34.1 | | Shamel ash | Fraxinus uhdei | 55/30 | 65/45 | 48% poor | moderate | E | | | | | 0 to 5 | | | | | Tree appears to be in decline due to chronic drought conditions. Current overall condition roughly 40% (Poor). |
| 46 | Street | x | | | 22.8 | | | | | | 22.8 | | Shamel ash | Fraxinus uhdei | 60/30 | 35/25 | 30% Poor | poor | w | | | | | | 16 | | | Roots damaged. | Tree is currently in same condition as noted in previous years. |
| 460 | Street | x | | | 29.3 | | | | | | 29.3 | | Shamel ash | Fraxinus uhdei | 65/30 | 45/45 | 45% fair | mod to good | E | | | | | | 9 | | | | Tree appears to be in decline due to chronic drought conditions. Current overall condition roughly 40% (Poor). |

| Tree Tag# | | To be Removed Per Current Site Plan Removed by highway | Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinane (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|----------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 467 | Street | x | | x | | 25.6 | | | | | | 25.6 | | Shamel ash | Fraxinus uhdei | 65/45 | 50/30 | 37% poor | moderate | | | | | GR | 3 to 10 | | | | | Tree declining. Current overall condition is roughly 28% (Very Poor). Tissue necrosis and bark inclusion at fork noted. Trees in very poor condition are typically suggested to be removed. |
| 468 | Street | x | | x | | 24.6 | | | | | | 24.6 | | Shamel ash | Fraxinus uhdel | 55/30 | 40/40 | 40% poor | poor | | | | | | | | | | Roots damaged. | True doclining with apparent extensive twip dehack. Current overall condition is mughly 20% (Nery Poor). Tissue necrosis and bark inclusion at fork noted. Trees in very poor condition are typically suggested to be removed. |
| 469 | Street | x | | | | 25.2 | | | | | | 25.2 | | Shamel ash | Fraxinus uhdei | 50/30 | 40/30 | 35% poor | poor | w | s | | | GR | | 12 | | | Roots damaged. | Tree is currently in same condition as noted in previous years. |
| 470 | Street | x | | | | 27.7 | | | | | | 27.7 | | Shamel ash | Fraxinus uhdei | 60/35 | 35/25 | 30% Poor | poor | | | | | | | | | | | Appears to be experiencing normal Fall leaf senescence (leaf drop). |
| 471 | Street | x | | | | 14.9 | | | | | | 14.9 | | Shamel ash | Fraxinus uhdei | 40/15 | 20/15 | 17% Very Poor | very poor | w | w | | | | | | | | | Appears to be experiencing normal Fall leaf senescence (leaf drop). |
| 472 | Street | x | | | | 16.4 | | | | | | 16.4 | | Shamel ash | Fraxinus uhdei | 50/20 | 25/20 | 23% Poor | poor | E | | | | | | | | | | Appears to be experiencing normal Fall leaf senescence (leaf drop). |
| 473 | Street | x | | | | 31.5 | | | | | | 31.5 | | Shamel ash | Fraxinus uhdei | 60/45 | 30/30 | 30% Poor | poor | | | | | | , | 9 and 10 (not verified) | | | Roots damaged | Tree appears to be somewhat declining. Current overall condition is roughly 57% (Fair). |
| 474 | Street | x | | | | 25.3 | | | | | | 25.3 | | Shamel ash | Fraxinus uhdei | 60/30 | 40/30 | 33% Poor | moderate | E | | | | GR | | | | | | Tree appears to be somewhat declining. Current overall condition is roughly 59% (Fair). |
| 475 | Street | x | | | | 28.7 | | | | | | 28.7 | | Shamel ash | Fraxinus uhdei | 60/45 | 30/30 | 30% Poor | poor | | | | | | | | | | Roots damaged. | Tree is declining, with an estimated 43% overall condition rating (Poor). Leaf fall appears to be a combo of normal leaf fall plus twig and branch dieback. |
| 476 | Standard | x | | | | 15.2 | | | | | | 15.2 | | Shamel ash | Fraxinus uhdei | 30/25 | 35/40 | 38% poor | poor to mod | E | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC. |
| 477 | Standard | x | | x | | 13.9 | | | | | | 13.9 | | Shamel ash | Fraxinus uhdei | 35/20 | 20/20 | 20% very poor | very poor | | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |

| Tree Tag # | Тгее Туре | To be Removed Per Current Site Plan Removed by highway | Author Recommends Removal Due to Vory Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupentino Ordinano Ordinano (10,0" single stem, 20" multi, various specified native sne cinon-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Spiltout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|--|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 478 | Standard | x | х | | 16.9 | | | | | | 16.9 | | coast redwood | Sequoia sempervirens | 40/15 | 50/50 | 50% fair | poor | | | | | | | | | | | 0%. Dead as noted 1/31/2021. High risk of failure and impact with ground targets within 1 year. Remove tree ASAP. This tree may have already been partially removed due to failure, as of April, 2021. REMOVED WITH PERMIT J |
| 479 | Standard | x | x | | 22.1 | | | | | | 22.1 | | coast redwood | Sequola sempervirens | 50/20 | 0/0 | 0% dead | | | | | | | | | | | | 0% Dead as noted 1/31/2021, High risk of failure and impact with ground targets within 1 year. Remove tree ASAP. This tree may have already been partially removed due to failure, as of April, 2021. REMOVED WITH PERMIT JULY 2021. |
| 480 | Standard | х | | | 13.1 | | | | | | 13.1 | | Shamel ash | Fraxinus uhdei | 30/18 | 45/45 | 45% poor | poor | SE | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 481 | Standard | х | | | 20.0 | | | | | | 20.0 | | Shamel ash | Fraxinus uhdei | 35/25 | 45/45 | 45% poor | poor | w | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 482 | Standard | х | | | 9.8 | | | | | | 9.8 | | Shamel ash | Fraxinus uhdei | 30/10 | 30/20 | 25% very poor | poor | w | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 483 | Standard | х | | | 12.7 | | | | | | 12.7 | | Shamel ash | Fraxinus uhdei | 30/16 | 50/40 | 50% fair | moderate | N | | | | GR | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 484 | Standard | x | | | 15.9 | | | | | | 15.9 | | Shamel ash | Fraxinus uhdei | 30/18 | 60/50 | 55% fair | moderate | | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 485 | Standard | х | | | 13.7 | | | | | | 13.7 | | Shamel ash | Fraxinus uhdei | 30/20 | 55/55 | 55% fair | moderate | E | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 486 | Standard | х | | | 22.3 | | | | | | 22.3 | | coast redwood | Sequola sempervirens | 50/18 | 70/70 | 70% good | moderate | | | | | | | | | | | 0% Dead as noted 1/31/2021. High risk of failure and impact in 2021. Remove tree ASAP. This tree may have already been removed or partially removed due to failure, as of April, 2021, REMOVED JULY 2021 WITH PERMIT. |
| 487 | Standard | x | | | 21.9 | | | | | | 21.9 | | coast redwood | Sequola sempervirens | 50/18 | 70/70 | 70% good | moderate | | | | | | | | | | | 0% Dead as noted 1/31/2021. High risk of failure and impact in 2021. Remove tree ASAP. This tree may have already been removed or partially removed due to failure, as of April, 2021. REMOVED WITH PERMIT, JULY 2021. |
| 488 | Standard | x | | | 12.4 | | | | | | 12.4 | | Shamel ash | Fraxinus uhdei | 30/16 | 50/35 | 40% poor | moderate | N | | | | | 0 to 3 | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 489 | Standard | х | | | 8.9 | | | | | | 8.9 | | Shamel ash | Fraxinus uhdei | 30/20 | 55/35 | 45% poor | moderate | | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens along Sheens Greek Burk and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|-----------|--|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|----------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 490 | Standard | x | | | 14.3 | | | | | | 14.3 | | Shamel ash | Fraxinus uhdei | 35/35 | 55/45 | 47% poor | poor to mod | w | w | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 491 | Standard | x | x | | 9.3 | | | | | | 9.3 | | Shamel ash | Fraxinus uhdei | 20/12 | 40/20 | 27% very poor | poor | w | w | | | | | 8 | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 492 | Standard | x | | | 9.1 | | | | | | 9.1 | | Shamel ash | Fraxinus uhdei | 25/18 | 50/35 | 40% poor | poor to mod | E | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 493 | Standard | x | | | 12.4 | | | | | | 12.4 | | Shamel ash | Fraxinus uhdei | 30/18 | 45/30 | 35% poor | poor to mod | w | w | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 494 | Standard | x | | | 13.8 | | | | | | 13.8 | | Shamel ash | Fraxinus uhdei | 30/30 | 40/40 | 40% poor | poor | | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 495 | Standard | × | x | | 13.0 | | | | | | 13.0 | | Shamel ash | Fraxinus uhdei | 30/16 | 26/20 | 22% very poor | poor | w | w | | | | 0 to 8 | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 496 | Standard | x | x | | 7.9 | | | | | | 7.9 | | Shamel ash | Fraxinus uhdei | 25/12 | 30/20 | 25% very poor | poor | E | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 497 | Standard | x | x | | 10.2 | | | | | | 10.2 | | Shamel ash | Fraxinus uhdei | 30/20 | 25/30 | 29% very poor | poor | w | w | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 498 | Standard | x | | | 11.8 | | | | | | 11.8 | | evergreen pear | Pyrus kawakamii | 20/20 | 50/40 | 44% poor | poor | N | | 5 | | | | | | | Fireblight infection. | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 499 | Standard | x | х | | 4.0 | | | | | | 4.0 | | evergreen pear | Pyrus kawakamii | 9/6 | 0/0 | 0% dead | | | | | | | | | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 500 | Standard | x | x | | 21.4 | | | | | | 21.4 | | coast redwood | Sequola sempervirens | 55/15 | 0/0 | 0% dead | | | | | | | | | | | | 0% Dead. High or extreme risk of failure and impact with ground targets within 1 year of 2020. Remove ASP. This tree may have already been removed or partially removed due to failure, as of April, 2021. ReMOVED WITH PERMIT JULY 2021. |
| 501 | Standard | x | x | | 19.0 | | | | | | 19.0 | | coast redwood | Sequola sempervirens | 55/15 | 15/15 | 15% very poor | very poor | | | | | | | | | x | Steep slope. | 0% Dead. High or extreme risk of failure and impact with ground targets within 1 year of 2020. Remove ASP4. This tree may have already been removed or partially removed due to failure, as of Agril, 2021. REMOVED WITH PERMIT JULY 2021. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per Gity of Cupertino Ordinaco Ordinaco (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Heath & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soll Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creet Brod and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|----------------------|-------------------------------------|-----------------------------------|--|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|--|
| 502 | Standard | x | | x | | 24.4 | | | | | | 24.4 | | coast redwood | Sequola sempervirens | 55/12 | 0/0 | 0% dead | | | | | | | | | | x | | 0% Dead. High or extreme risk of failure and impact with ground targets within 1 year of 2020. Remove ASAP. This tree may have already been removed due to failure, as of April, 2021. REMOVED WITH PERMIT JULY, 2021. |
| 503 | Standard | x | | | | 6.7 | | | | | | 6.7 | | evergreen pear | Pyrus kawakamii | 13/14 | 40/40 | 40% poor | poor | s | | | | | | 5 | | | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 504 | Standard | x | | | | 9.9 | 9.0 | | | | | 18.9 | | oak species | Quercus sp. | 35/30 | 80/50 | 60% fair | good | s | | | | GR | | | | | Steep slope | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 505 | Standard | x | | | | 32.3 | | | | | | 32.3 | | coast redwood | Sequoia sempervirens | 50/35 | 70/70 | 70% good | moderate | | | | | | | | | x | Steep slope | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 506 | Standard | x | | | | 10.0 | | | | | | 10.0 | | evergreen pear | Pyrus kawakamii | 25/15 | 40/40 | 40% poor | poor | E | E | | x | | | | | | Fireblight infection. | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 507 | Standard | x | | x | | 7.6 | | | | | | 7.6 | | evergreen pear | Pyrus kawakamii | 18/15 | 20/20 | 20% very poor | very poor | N | N | | x | | | | | | Fireblight infection. | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 508 | Standard | x | | | | 10.9 | | | | | | 10.9 | | evergreen pear | Pyrus kawakamii | 25/25 | 40/30 | 35% poor | poor | N | N | | х | | | | | | Fireblight infection. | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 509 | Standard | x | | x | | 7.2 | 6.9 | 5.5 | | | | 19.6 | | southern magnolia | Magnolia grandiflora | 25/15 | 15/15 | 15% very poor | very poor | N | | | | | | | | x | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 510 | Standard | x | | | | 28.0 | | | | | | 28.0 | | coast redwood | Sequoia sempervirens | 60/25 | 80/80 | 80% good | good | | | | | | | | | x | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 511 | Standard | x | | | | 14.4 | | | | | | 14.4 | | evergreen pear | Pyrus kawakamii | 20/25 | 40/50 | 44% poor | poor | | | | х | | | | | | Roots damaged on grade. Fireblight infection. | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 512 | Standard | x | | | | 6.0 | | | | | | 6.0 | | southern magnolia | Magnolia grandiflora | 15/8 | 50/30 | 37% poor | moderate | | | | х | | | | | x | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 513 | Standard | x | | | | 5.6 | | | | | | 5.6 | | southern magnolia | Magnolia grandiflora | 18/10 | 40/40 | 40% poor | poor | E | | | | | | | | x | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 514 | Standard | x | | | | 4.4 | | | | | | 4.4 | | southern magnolia | Magnolia grandiflora | 18/6 | 40/40 | 40% poor | poor | E | | | | | | | | x | | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | Protected Tree" per City of Cuperino Ordinance (16.0" single stem, 20" muti, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Heaith & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & MOTES 2017 OWWARD. Condition Ratings for All Ash Specimens Aung Stewes Greek Bried and N. Wolle Rd Were Updated in Fall, 2022. |
|-----------|-------------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|----------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|--|
| 515 | Standard | х | | x | | 10.5 | | | | | | 10.5 | | evergreen pear | Pyrus kawakamii | 25/20 | 30/30 | 30% poor | poor | E | E | | x | | | | | | Fireblight infection. | Removed in July, 2021, with permit, per plan, by Valico Property Owner LLC. |
| 516 | Standard | х | | x | | 10.6 | | | | | | 10.6 | | evergreen pear | Pyrus kawakamii | 25/20 | 30/40 | 35% poor | poor | E | E | | x | | | | | | Fireblight infection. | 20% overall condition "very poor". REMOVED WITH PERMIT JULY, 2021. |
| 517 | Standard | х | | x | | 6.5 | | | | | | 6.5 | | southern magnolia | Pyrus kawakamii | 13/7 | 40/30 | 30% poor | poor to mod | E | | | | | 4 to 7 | | | | | 15% overall condition "very poor". REMOVED WITH PERMIT JULY, 2021. |
| 518 | Standard | х | | | | 23.2 | | | | | | 23.2 | | Shamel ash | Fraxinus uhdei | 50/30 | 55/60 | 58% fair | poor to mod | w | w | | | | | | | | Out of leaf. Overall condition verify in spring after leafout. | |
| 519 | Standard | х | | x | | 7.6 | | | | | | 7.6 | | coast redwood | Sequoia sempervirens | 40/10 | 0/0 | 0% DEAD | n/a | | | | | | | | | | | |
| 520 | Not In Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE |
| 521 | Standard | х | | x | | 20.2 | | | | | | 20.2 | | Shamel ash | Fraxinus uhdei | 55/18 | 30/25 | 28% very poor | poor | w | | | | | | | | | | |
| 522 | Standard | х | | x | | 14.3 | | | | | | 14.3 | | Shamel ash | Fraxinus uhdei | 35/18 | 10/10 | 10% Very Poor | very poor | w | | | | | | 5 | | | | |
| 523 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE. |
| 524 | Standard | | | | | 10.6 | | | | | | 10.6 | | Chinese elm | Ulmus parvifolia | 40/30 | 75/75 | 75% good | good | E | | | x | | | | | | | |
| 525 | Standard | | | | | 17.6 | | | | | | 17.6 | | Shamel ash | Fraxinus uhdei | 40/25 | 35/35 | 35% poor | poor | w | w | | | | | | | | | |
| 526 | Standard | | | | | 6.7 | | | | | | 6.7 | | Chinese elm | Ulmus parvifolia | 18/12 | 65/50 | 55% fair | moderate | E | | | x | | | | | | | |
| 527 | Standard | | | | | 8.2 | | | | | | 8.2 | | Shamel ash | Fraxinus uhdei | 20/15 | 70/40 | 55% fair | good | s | s | | | | | | | | | |
| 528 | Standard | | | | | 11.1 | | | | | | 11.1 | | Chinese elm | Ulmus parvifolia | 25/35 | 70/60 | 66% fair | moderate | | | | x | | | | | | | |

| Tree Tag # | To be Removed Per Current Site Plan Removed by Highway | Author Recommends Removal Due to Very Proor Condition or | Failure Project Team Desires | to Transplant Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|--------------|--|--|---------------------------------|--------------------------------|---------------|---------------|---------------|---------------|---------------|---|---|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| Standard | | | | 12.7 | | | | | | 12.7 | | Shamel ash | Fraxinus uhdei | 30/20 | 45/45 | 45% poor | poor to mod | w | w | | | | | | | | | |
| Standard | | | | 10.4 | | | | | | 10.4 | | Chinese elm | Ulmus parvifolia | 30/30 | 75/65 | 73% good | moderate | s | | | x | | | | | | | |
| Standard | | | | 9.2 | | | | | | 9.2 | | Shamel ash | Fraxinus uhdei | 30/18 | 50/40 | 45% poor | w | s | | | | | | | | | | |
| Standard | | | | 12.3 | | | | | | 12.3 | | Chinese elm | Ulmus parvifolia | 50/40 | 65/70 | 70% good | moderate | SE | | | x | | | | | | | |
| Standard | | | | 13.2 | | | | | | 13.2 | | Shamel ash | Fraxinus uhdei | 30/30 | 60/60 | 60% fair | moderate | | | | | | | | | | | |
| 534 Standard | | | | 10.2 | | | | | | 10.2 | | Chinese elm | Ulmus parvifolia | 40/20 | 70/60 | 70% good | good | E | | | x | | | | | | | |
| Standard | | | | 20.6 | | | | | | 20.6 | | Shamel ash | Fraxinus uhdei | 35/35 | 60/50 | 55% fair | good | | | | | | | | | | | |
| Standard | x | x | | 12.1 | | | | | | 12.1 | | Shamel ash | Fraxinus uhdei | 30/20 | 20/20 | 20% very poor | very poor | | | | | | | | | | | |
| 537 Standard | | | | 13.1 | | | | | | 13.1 | | Chinese elm | Ulmus parvifolia | 35/35 | 60/55 | 60% fair | moderate | E | | | x | | | | | | | |
| Standard | | | | 19.9 | | | | | | 19.9 | | Shamel ash | Fraxinus uhdei | 35/35 | 50/45 | 50% fair | poor to mod | | | | | | | | | | | |
| Standard | | | | 12.7 | | | | | | 12.7 | | Chinese elm | Ulmus parvifolia | 25/30 | 75/65 | 70% good | good | E | E | | x | | | | | | | |
| Standard | | | | 21.9 | | | | | | 21.9 | | Shamel ash | Fraxinus uhdei | 45/45 | 65/55 | 60% fair | moderate | | | | | GR | | | | | | |
| Standard | | | | 12.5 | | | | | | 12.5 | | Chinese elm | Ulmus parvifolia | 30/30 | 60/50 | 55% fair | moderate | | | | x | | | | | | | |
| Standard | x | | | 13.7 | | | | | | 13.7 | | Shamel ash | Fraxinus uhdei | 35/25 | 50/50 | 50% fair | moderate | w | w | | | | | | | | | |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Dens ity (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Note d) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 OWNARD. Condition Ratings for Ail Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-------------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|---|--------------------------------------|----------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|--|
| 543 | Standard | x | | | 15.2 | | | | | | 15.2 | | Shamel ash | Fraxinus uhdei | 40/25 | 55/30 | 34% poor | moderate | s | | | | GR | | 5 | | | | |
| 544 | Standard | | | | 14.1 | | | | | | 14.1 | | Chinese elm | Ulmus parvifolia | 40/35 | 70/60 | 67% fair | moderate | E | E | | x | | | | | | | |
| 545 | Standard | х | | | 17.4 | | | | | | 17.4 | | Shamel ash | Fraxinus uhdei | 40/30 | 75/55 | 64% fair | good | w | | | | | | | | | Tight forks at 8 feet. | |
| 546 | Standard | | | | 11.2 | | | | | | 11.2 | | Chinese elm | Ulmus parvifolia | 30/35 | 70/60 | 66% fair | moderate | E | E | | x | | | | | | | |
| 547 | Standard | х | x | | 12.5 | | | | | | 12.5 | | Shamel ash | Fraxinus uhdei | 40/20 | 25/25 | 25% very poor | very poor | w | w | | | GR | | | | | | |
| 548 | Not In Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE. |
| 549 | Standard | x | | | 16.3 | | | | | | 16.3 | | Shamel ash | Fraxinus uhdei | 45/30 | 65/55 | 61% fair | moderate | w | | | | | | | | | | |
| 550 | Standard | x | | | 17.5 | | | | | | 17.5 | | Shamel ash | Fraxinus uhdei | 50/30 | 75/65 | 70% good | good | w | | | | | | | | | | |
| 551 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE. |
| 552 | Standard | | | | 11.2 | | | | | | 11.2 | | Chinese elm | Ulmus parvifolia | 25/25 | 60/60 | 60% fair | moderate | N | N | | x | | | | | | | |
| 553 | Standard | х | | | 14.2 | | | | | | 14.2 | | Shamel ash | Fraxinus uhdei | 30/20 | 75/65 | 70% good | good | w | w | | | | | | | | | |
| 554 | Standard | | | | 4.0 | | | | | | 4.0 | | elm species | Ulmus sp. | 20/10 | 75/75 | 75% good | good | | | | | | | | | | Tree out of leaf. ID not verified at time of writing. | |
| 555 | Standard | x | x | | 9.8 | | | | | | 9.8 | | Shamel ash | Fraxinus uhdei | 20/15 | 10/10 | 10% very poor | very poor | | | | | | 0 to 10 | | | | | Overall condition rating 8% (almost dead) as of 8/31/2022. Severe tissue decay throughout. Approved for removal by Mick Bench Jan 2022. Removed by SHPCO in Sept 2022. |

| Tree Tag # | To be Demound Der | Current Site Plan Removed by highway | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Credit Blwd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-------------------|--------------------------------------|--|--|---------------|---------------|---------------|---------------|---------------|---|--|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|---|
| 556 | Standard | x | | 16.8 | | | | | | 16.8 | | Shamel ash | Fraxinus uhdei | 30/30 | 55/60 | 59% fair | moderate | | | | | | 0 to 1 | | | | Vehicle impact scar. | |
| 557 | Standard | x | | 12.9 | | | | | | 12.9 | | Shamel ash | Fraxinus uhdei | 50/25 | 35/35 | 35% poor | poor | w | w | | | | | | | | | |
| 558 | Standard | | | 13.8 | | | | | | 13.8 | | Chinese elm | Ulmus parvifolia | 35/35 | 75/70 | 73% good | good | N | N | | x | | | | | | | |
| 559 | Standard | x | | 15.9 | | | | | | 15.9 | | Shamel ash | Fraxinus uhdei | 50/25 | 55/50 | 54% fair | poor to mod | w | | | | | | | | | | |
| 560 | Standard | | | 11.5 | | | | | | 11.5 | | Chinese elm | Ulmus parvifolia | 30/30 | 65/70 | 68% fair | moderate | E | | | x | | | | | | | |
| 561 | Standard | | | 13.7 | | | | | | 13.7 | | Chinese elm | Ulmus parvifolia | 30/30 | 70/50 | 60% fair | good | N | | | x | | | | | | | |
| 562 | Standard | x | | 13.8 | | | | | | 13.8 | | Shamel ash | Fraxinus uhdei | 30/30 | 40/35 | 38% poor | poor | N | | | | | | | x | | | |
| 563 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE. |
| 564 | Standard | x | x | 14.8 | | | | | | 14.8 | | Shamel ash | Fraxinus uhdei | 35/25 | 25/20 | 23% very poor | very poor | w | w | | | | | | | | | |
| 565 | Not In Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE. |
| 566 | Standard | x | | 17.5 | | | | | | 17.5 | | Shamel ash | Fraxinus uhdei | 45/35 | 40/40 | 40% poor | moderate | w | w | | | | | | | | | |
| 567 | Standard | x | x | 16.2 | | | | | | 16.2 | | Shamel ash | Fraxinus uhdei | 30/15 | 25/25 | 25% very poor | very poor | | | | | | | | | | | |
| 568 | Standard | x | | 18.0 | | | | | | 18.0 | | Shamel ash | Fraxinus uhdei | 45/35 | 75/65 | 70% good | good | w | | | | | | | | | | |
| 569 | Standard | x | | 13.5 | | | | | | 13.5 | | Shamel ash | Fraxinus uhdei | 30/25 | 70/65 | 68% fair | good | w | | | | | | | | | | |

| Tree Tag# | To be Removed Per Current Site Plan Removed by highway | Project Author Recommends | Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" states stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Spiltout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 OWARD, Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|--|------------------------------|---|---------------------------------------|-----|---------------|---------------|---------------|---------------|---------------|---|--|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|---|
| Standard | x | | | 12 | 1.7 | | | | | | 12.7 | | Shamel ash | Fraxinus uhdei | 18/10 | 50/30 | 40% poor | moderate | w | w | | x | | | | | | | |
| Standard | | | | 22 | 1.7 | | | | | | 22.7 | | coast redwood | Sequoia sempervirens | 55/20 | 60/60 | 60% fair | moderate | | | | | | | | | x | | 50% overall condition "fair". |
| Standard | | | | 31 | .6 | | | | | | 31.6 | | coast redwood | Sequoia sempervirens | 55/20 | 60/45 | 55% fair | moderate | | | | | | | 25 | | x | | 60% overall condition "fair". |
| Standard | | | | 16 | i.5 | | | | | | 16.5 | | coast redwood | Sequoia sempervirens | 50/15 | 60/50 | 53% fair | moderate | | | | | | | | | x | | 37% overall condition "poor". |
| Standard | | | | 25 | i.6 | | | | | | 25.6 | | coast redwood | Sequoia sempervirens | 55/15 | 60/60 | 60% fair | moderate | | | | | | | | | x | | 48% overall condition "poor". |
| Standard | | | | 12 | 2.0 | | | | | | 12.0 | | coast redwood | Sequoia sempervirens | 35/10 | 60/40 | 47% poor | moderate | | | | | | | | | x | | 35% overall condition "poor". |
| Standard | | | | 32 | 1.1 | 13.4 | 12.2 | | | | 57.7 | | coast redwood | Sequoia sempervirens | 55/25 | 70/70 | 70% good | poor | | | | | | | | | x | | 55% overall condition "fair". |
| Standard | | | | 27 | '.6 | | | | | | 27.6 | | coast redwood | Sequoia sempervirens | 50/15 | 40/30 | 35% poor | poor | | | | | | various elevations | | | x | | 45% overall condition "poor". |
| Standard | | | | 17 | M | | | | | | 17.1 | | coast redwood | Sequoia sempervirens | 50/12 | 60/60 | 60% fair | moderate | | | | | | | | | x | | 50% overall condition "fair". |
| Standard | | | | 17 | .7 | | | | | | 17.7 | | coast redwood | Sequoia sempervirens | 50/12 | 65/65 | 65% fair | moderate | | | | | | | | | x | | 40% overall condition "poor". |
| Standard | | | | 31 | .5 | 9.0 | | | | | 40.5 | | coast redwood | Sequoia sempervirens | 60/20 | 75/75 | 75% good | moderate | | | | | | | | | x | | 55% overall condition "fair". |
| Standard | | | | 21 | .5 | 10.5 | | | | | 32.0 | | coast redwood | Sequoia sempervirens | 60/15 | 60/60 | 60% fair | moderate | | | | | | | | | x | | 45% overall condition "poor". |
| Standard | | | | 31 | 1.7 | | | | | | 31.7 | | coast redwood | Sequoia sempervirens | 70/25 | 80/80 | 80% good | good | | | | | | | | | x | | 60% overall condition "fair". |
| Standard | | | x | 8. | .3 | | | | | | 8.3 | | coast redwood | Sequoia sempervirens | 35/6 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | 20% overall condition "very poor". |

| Tree Tag # Tree Type | Current Site Plan Removed by highway | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) Historical Stem Splitout Endence | Topped or Severely | Pruned in Past Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) Codominant | Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|--|--------------------------------------|--|--|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|--|--------------------|---|--|---|---|---|---------------------------------------|--|
| 584 card | | | 26.9 | | | | | | 26.9 | | coast redwood | Sequoia sempervirens | 70/20 | 65/65 | 65% fair | moderate | | | | | | | | x | | 60% overall condition "fair". |
| Standard | | | 15.9 | 7.3 | | | | | 23.2 | | coast redwood | Sequoia sempervirens | 50/15 | 65/65 | 65% fair | moderate | | | | | | | | x | | 50% overall condition "fair". |
| Standard 885 | | | 25.3 | | | | | | 25.3 | | coast redwood | Sequoia sempervirens | 50/13 | 65/65 | 65% fair | moderate | | | | | | | | x | | 45% overall condition "poor". |
| 587 Eguate | | | 19.9 | | | | | | 19.9 | | coast redwood | Sequoia sempervirens | 50/14 | 65/65 | 65% fair | moderate | | | | | | | | x | | 52% overall condition "fair". |
| Standard Standard | | | 21.0 | | | | | | 21.0 | | coast redwood | Sequoia sempervirens | 50/12 | 60/60 | 60% fair | moderate | | | | | | | | x | | 47% overall condition "poor". |
| Standard | | | 23.3 | | | | | | 23.3 | | coast redwood | Sequoia sempervirens | 60/12 | 65/65 | 65% fair | moderate | | | | | | | | х | | 62% overall condition "fair". |
| Standard | | | 25.5 | 5.0 | | | | | 30.5 | | coast redwood | Sequoia sempervirens | 60/10 | 30/40 | 35% poor | poor | | | | | | | | x | | 35% overall condition "poor". |
| Standard | | | 21.2 | | | | | | 21.2 | | coast redwood | Sequoia sempervirens | 55/10 | 50/40 | 45% poor | poor | | | | | | | | х | | 50% overall condition "fair". |
| 592 pup graph state of the stat | | x | 25.0 | | | | | | 25.0 | | coast redwood | Sequoia sempervirens | 60/8 | 25/35 | 28% very poor | very poor | | | | | | | | x | | 50% fair as of 7/28/2020. |
| Standard | | | 14.4 | | | | | | 14.4 | | coast redwood | Sequoia sempervirens | 40/10 | 30/30 | 30% poor | poor to mod | | s | | | 0 to 5 | | | x | | 40% poor as of 7/28/2020. |
| 594 Standard | | | 18.1 | | | | | | 18.1 | | coast redwood | Sequoia sempervirens | 50/13 | 65/55 | 50% fair | moderate | | | | | | | | x | | 50% fair as of 7/28/2020. |
| Standard Standard | | | 19.2 | | | | | | 19.2 | | coast redwood | Sequoia sempervirens | 25/15 | 40/25 | 30% poor | moderate | | 25 (apic merister | al n) | | | | | x | | 50% fair as of 7/28/2020. |
| Standard | | | 12.8 | | | | | | 12.8 | | coast redwood | Sequoia sempervirens | 55/8 | 50/40 | 45% poor | poor to mod | | s | | | | | | x | | 20% very poor as of 7/28/2020. |
| Standard | x | х | 12.7 | 8.3 | | | | | 21.0 | | coast redwood | Sequoia sempervirens | 35/10 | 0/0 | 0% dead | dead | | | | | | 1 | | x | | Dead as of 7/28/2020. Removed at request of neighbor, in January, 2021. City took 6 months to issue removal permit. |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Spiltout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Greek Blyk and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|--|
| 59 | Standard | | x | | 19.5 | | | | | | 19.5 | | coast redwood | Sequoia sempervirens | 50/6 | 30/10 | 20% very poor | very poor | | | | | | | | | x | Shear crack through the mainstem longitudinally. | May be as high as 40% poor as of 7/28/2020. But shear crack downgrades condition rating. |
| 59 | Standard | | | | 27.0 | | | | | | 27.0 | | coast redwood | Sequoia sempervirens | 75/25 | 65/65 | 65% fair | moderate | | | | | | | | | x | | 50% fair as of 7/28/2020. |
| 60 | Standard | | | | 18.8 | | | | | | 18.8 | | coast redwood | Sequoia sempervirens | 65/8 | 50/40 | 45% poor | poor | w | | | | | | | | x | Canker developing on trunk at 5 feet elevation. | 30% poor as of 7/28/2020. |
| 60 | Standard | | | | 25.5 | | | | | | 25.5 | | coast redwood | Sequoia sempervirens | 70/14 | 40/40 | 40% poor | poor | | | | | | | | | x | | 30% poor as of 7/28/2020. |
| 60 | Standard | | | | 13.7 | 7.7 | | | | | 21.4 | | coast redwood | Sequola sempervirens | 40/9 | 40/30 | 35% poor | | | | | | BRC | | | | x | | 30% overall condition "poor". |
| 60 | Standard | | x | | 17.3 | | | | | | 17.3 | | coast redwood | Sequoia sempervirens | 50/15 | 25/25 | 25% very poor | very poor | | | | | | | | | x | | 25% overall condition "very poor". |
| 60 | Standard | | x | | 16.7 | | | | | | 16.7 | | coast redwood | Sequoia sempervirens | 50/12 | 25/25 | 25% very poor | very poor | | w | | | | | | | x | | 25% overall condition "very poor". |
| 60 | Standard | x | x | | 6.6 | | | | | | 6.6 | | coast redwood | Sequola sempervirens | 35/7 | 25/25 | 25% very poor | very poor | | | | | | | | | x | | 0% (Dead) in 2018. 0% (Dead) as of 8/31/2022 and still standing. Removed by SHPCO in Sept 2022. |
| 60 | Standard | | x | | 26.4 | | | | | | 26.4 | | coast redwood | Sequoia sempervirens | 60/18 | 20/30 | 25% very poor | poor | | | | | | | | | x | Codominant mainstem fork at 20 feet. | 25% overall condition "very poor". |
| 60 | Standard | | x | | 15.4 | | | | | | 15.4 | | coast redwood | Sequoia sempervirens | 55/10 | 15/20 | 17% very poor | very poor | | | | | | | | | x | | 15% overall condition "very poor". |
| 60 | Standard | | x | | 22.4 | | | | | | 22.4 | | coast redwood | Sequola sempervirens | 60/14 | 30/30 | 30% poor | poor | w | | | | | | | | x | | 27% overall condition "very poor". |
| 60 | Standard | | | | 27.1 | | | | | | 27.1 | | coast redwood | Sequoia sempervirens | 70/18 | 35/35 | 35% poor | poor | | | | | | | | | x | | 30% overall condition "poor". |
| 61 | Standard | | x | | 13.0 | | | | | | 13.0 | | coast redwood | Sequoia sempervirens | 30/8 | 40/20 | 28% very poor | poor to mod | | | | | | | | | x | | 25% overall condition "very poor". |

| Tree Tag # | | To be Removed Per Current Site Plan Removed by highway | Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | Protected Tree" per City of Cupertino Ordinance (1.0." single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2923. |
|------------|----------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|---|
| 611 | Standard | | | | | 39.4 | | | | | | 39.4 | | coast redwood | Sequola sempervirens | 75/15 | 70/70 | 70% good | good | | | | | | | | | x | Cankers on trunk at 6 feet. | 75% overal condition "good". Tree was severely pruned by properly owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition rating noted above. |
| 612 | Standard | x | | х | | 8.0 | | | | | | 8.0 | | coast redwood | Sequola sempervirens | 25/4 | 0/0 | 0% dead | dead | | | | | | | | | х | | 0% (Dad) The was severely pruned by properly owner to the west, which removed all of the westward facing scaffold limbs. REMOVED AS OF OCTOBER 2018. |
| 613 | Standard | | | | | 26.5 | | | | | | 26.5 | | coast redwood | Sequoia sempervirens | 75/18 | 75/75 | 75% good | good | | | | | | | | | x | | 65% overall condition "fair". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition rating noted above. |
| 614 | Standard | | | | | 32.3 | | | | | | 32.3 | | coast redwood | Sequoia sempervirens | 65/15 | 70/70 | 70% good | mod to good | | | | | | | | | x | | 60% overall condition "fair". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition rating noted above. |
| 615 | Standard | | | | | 15.4 | | | | | | 15.4 | | coast redwood | Sequoia sempervirens | 50/10 | 50/50 | 50% fair | poor | | | | | | | | | x | | 40% overall condition "poor". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition rating noted above. |
| 616 | Standard | | | | | 24.4 | | | | | | 24.4 | | coast redwood | Sequoia sempervirens | 65/11 | 55/50 | 53% fair | mod | | | | | | | | | x | | 47% overall condition "poor". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition rating noted above. |
| 617 | Standard | | | | | 10.1 | | | | | | 10.1 | | coast redwood | Sequoia sempervirens | 25/9 | 65/45 | 55% fair | mod | | | | | | | | | x | | 40% overall condition "poor". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition rating noted above. |
| 618 | Standard | | | | | 26.7 | | | | | | 26.7 | | coast redwood | Sequoia sempervirens | 70/18 | 55/60 | 58% fair | poor to mod | | | | | | | | | x | | 55% overall condition "fair". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition rating noted above. |
| 619 | Standard | | | | | 12.5 | | | | | | 12.5 | | coast redwood | Sequoia sempervirens | 45/10 | 50/40 | 50% fair | moderate | | | | | | | | | x | | 40% overall condition "poor". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition rating noted above. |
| 620 | Standard | | | | | 15.3 | | | | | | 15.3 | | coast redwood | Sequoia sempervirens | 35/10 | 50/40 | 50% fair | moderate | | | | | | | | | x | | 49% overall condition "poor". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition rating noted above. |
| 621 | Standard | | | | | 12.6 | | | | | | 12.6 | | coast redwood | Sequoia sempervirens | 45/11 | 60/50 | 55% fair | moderate | | | | | | | | | x | | 55% overall condition "fair". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition rating noted above. |
| 622 | Standard | | | | | 23.4 | | | | | | 23.4 | | coast redwood | Sequoia sempervirens | 75/15 | 50/50 | 50% fair | poor | | | | | | | | | x | | 55% overall condition "fair". |
| 623 | Standard | | | | | 25.1 | | | | | | 25.1 | | coast redwood | Sequoia sempervirens | 75/15 | 50/50 | 50% fair | poor | | | | | | | | | x | | 57% overall condition "fair". |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project Author Recommends Removal Due to Very Poor Condition or Eley ated Risk of | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | 'Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES. 2817 OWNARD. Condition Ratings for All Ash Specimens Along Stevens (Creek Beld and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|--|---|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 624 | Standard | | | | 15.9 | | | | | | 15.9 | | coast redwood | Sequoia sempervirens | 70/12 | 50/40 | 49% poor | poor | | | | | | | | | x | | 50% overall condition "fair". |
| 625 | Standard | | | | 19.7 | 6.4 | | | | | 26.1 | | coast redwood | Sequoia sempervirens | 65/10 | 50/50 | 50% fair | poor | | | | | | | | | x | | 50% overall condition "fair". |
| 626 | Standard | | | | 19.6 | | | | | | 19.6 | | coast redwood | Sequoia sempervirens | 60/10 | 60/50 | 55% fair | poor to mod | | | | | | | | | x | | 50% overall condition "fair". |
| 627 | Standard | | | | 22.9 | | | | | | 22.9 | | coast redwood | Sequoia sempervirens | 75/12 | 60/50 | 53% fair | poor | | | | | | | | | x | | 60% overall condition "fair". |
| 628 | Standard | x | x | | 14.1 | | | | | | 14.1 | | coast redwood | Sequoia sempervirens | 45/8 | 20/30 | 25% very poor | very poor | | | | | | | | | x | | I recommend tree be removed at this time. October 2018 (WLCA), SHPCO will remove. Tree is 0% condition (dead) as of 381/4022 and still standing. Removed by SHPCO in Sept 2022. |
| 629 | Standard | x | х | | 11.9 | | | | | | 11.9 | | coast redwood | Sequola sempervirens | 45/7 | 10/10 | 10% very poor | very poor | | | | | | | | | x | | 0% (Dead). TREE REMOVED AS OF OCTOBER 2018. |
| 630 | Standard | | x | | 12.0 | | | | | | 12.0 | | coast redwood | Sequoia sempervirens | 35/10 | 35/35 | 35% poor | poor | | | | | | | | | x | | 25% overall condition "very poor". |
| 631 | Standard | | x | | 16.2 | | | | | | 16.2 | | coast redwood | Sequoia sempervirens | 45/15 | 20/20 | 20% very poor | very poor | | | | | | | 25 | | x | | 20% overall condition "very poor". |
| 632 | Standard | | | | 15.5 | | | | | | 15.5 | | coast redwood | Sequoia sempervirens | 50/18 | 40/30 | 35% poor | poor to mod | | | | | | | 30 | | x | | 30% overall condition "poor". |
| 633 | Standard | x | х | | 9.3 | | | | | | 9.3 | | coast redwood | Sequoia sempervirens | 40/10 | 35/35 | 35% poor | poor | | | | | | | | | x | | 20% overall condition "very poor". TREE REMOVED AS OF OCTOBER 2018. |
| 634 | Standard | x | x | ı | 11.5 | | | | | | 11.5 | | coast redwood | Sequola sempervirens | 50/12 | 20/20 | 20% very poor | very poor | | | | | | | | | х | | 19% overall condition "very poor". 20% overall condition as of 8/31/2022. Regrowth occurring only at lower elevations. Top remains dead. Removal approved per planning dept letter dated 10/18/2022. |
| 635 | Standard | x | x | | 18.4 | | | | | | 18.4 | | coast redwood | Sequola sempervirens | 50/12 | 10/10 | 10% very poor | very poor | | | | | | | | | х | | 20% overall condition as of 831/2022. Regrowth occurring only at lower elevations. Top remains dead. Removal approved per planning dept letter dated 1018/2022 |
| 636 | Standard | | x | | 20.9 | | | | | | 20.9 | | coast redwood | Sequoia sempervirens | 70/18 | 25/25 | 25% very poor | very poor | | | | | | | | | x | | 18% overall condition (very poor). |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinanco (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|---|--|--|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|--|
| 637 | Standard | | x | 13.8 | | | | | | 13.8 | | coast redwood | Sequoia sempervirens | 50/15 | 25/25 | 25% very poor | very poor | | | | | | | | | x | One of two mainstems was removed at grade. | 5% overall condition (very poor). |
| 638 | Standard | | | 27.9 | | | | | | 27.9 | | coast redwood | Sequoia sempervirens | 80/25 | 75/75 | 75% good | mod to good | | | | | | | | | x | | 68% overall condition (fair). |
| 639 | Standard | | x | 10.8 | | | | | | 10.8 | | coast redwood | Sequoia sempervirens | 35/8 | 25/25 | 25% very poor | very poor | | | | | | | | | x | Difficult to assess visually. | 18% overall condition "very poor". |
| 640 | Standard | | | 21.1 | | | | | | 21.1 | | coast redwood | Sequoia sempervirens | 70/12 | 40/40 | 40% poor | poor | w | | | | | | | | x | | 30% overall condition "poor". |
| 641 | Standard | | | 19.6 | | | | | | 19.6 | | coast redwood | Sequoia sempervirens | 60/12 | 65/55 | 60% fair | moderate | | N | | | | | | | x | | 45% overall condition "poor". |
| 642 | Standard | | | 30.3 | | | | | | 30.3 | | coast redwood | Sequoia sempervirens | 75/20 | 50/50 | 50% fair | moderate | | | | | | | | | x | | 42% overall condition "poor". |
| 643 | Standard | | | 24.3 | | | | | | 24.3 | | coast redwood | Sequoia sempervirens | 70/18 | 60/55 | 56% fair | moderate | | | | | | | | | x | | 50% overall condition "fair". |
| 644 | Standard | | | 11.1 | | | | | | 11.1 | | coast redwood | Sequoia sempervirens | 55/12 | 50/50 | 50% fair | poor | | | | | | | | | x | | 40% overall condition "poor". |
| 645 | Standard | | | 22.8 | | | | | | 22.8 | | coast redwood | Sequoia sempervirens | 70/12 | 40/35 | 39% poor | poor | | | | | | | | | x | | 25% overall condition "very poor". Tree requuires a Root Crown Excavation (RCX). |
| 646 | Standard | | x | 14.8 | 7.5 | | | | | 22.3 | | coast redwood | Sequoia sempervirens | 50/10 | 45/20 | 27% very poor | poor | w | | | | | | | | x | S-trunk form at certain heights. | 24% overall condition "very poor". |
| 647 | Standard | | | 31.5 | | | | | | 31.5 | | coast redwood | Sequoia sempervirens | 75/25 | 80/80 | 80% good | good | | | | | | | | | x | | 70% overall condition "good". |
| 648 | Standard | | x | 4.9 | | | | | | 4.9 | | coast redwood | Sequoia sempervirens | 25/5 | 30/30 | 30% poor | poor | | s | | | | | | | x | | 17% overall condition "very poor". |
| 649 | Standard | | | 25.7 | | | | | | 25.7 | | coast redwood | Sequoia sempervirens | 65/12 | 50/50 | 50% fair | moderate | | | | | | | | | x | | 50% overall condition "fair". |
| 650 | Standard | | | 22.4 | | | | | | 22.4 | | coast redwood | Sequoia sempervirens | 65/16 | 50/50 | 50% fair | moderate | | | | | | | | | x | | 50% overall condition "fair". |

| Tree Tag # | Tree Type To be Removed Per | Current Site Plan Removed by highway | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONIVARD. Condition Ratings for All Ash Specimens Along Stevens Greek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------------------------|--------------------------------------|--|--|---------------|---------------|---------------|---------------|---------------|---|--|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|---|
| 651 | Standard | | | 29.6 | | | | | | 29.6 | | coast redwood | Sequoia sempervirens | 70/20 | 60/40 | 55% fair | moderate | | | | | | | | | x | | 25% overall condition 8/31/2022. |
| 652 | Standard | | | 15.9 | | | | | | 15.9 | | coast redwood | Sequoia sempervirens | 65/16 | 40/40 | 40% poor | poor | | | | | | | | | x | | 45% overall condition "poor". |
| 653 | Standard | | x | 16.0 | | | | | | 16.0 | | coast redwood | Sequoia sempervirens | 60/10 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | 0% (Dead) |
| 654 | Standard | | x | 20.5 | | | | | | 20.5 | | coast redwood | Sequola sempervirens | 55/6 | 30/15 | 20% very poor | very poor | | | | | | | | | x | | 16% overall condition "very poor". |
| 655 | Standard | | | 25.0 | 10.0 | | | | | 35.0 | | coast redwood | Sequoia sempervirens | 70/15 | 50/50 | 50% fair | poor to mod | | | | | | | 3 | | x | | 50% overall condition "fair". |
| 656 | Standard | | | 27.3 | | | | | | 27.3 | | coast redwood | Sequoia sempervirens | 75/15 | 60/40 | 50% fair | poor to mod | | | | | | | 6 | | x | | 56% overall condition "fair". |
| 657 | Standard | | | 19.8 | | | | | | 19.8 | | coast redwood | Sequoia sempervirens | 70/15 | 45/45 | 45% poor | poor | w | | | | | | | | x | | 48% overall condition "poor". |
| 658 | Standard | | | 30.8 | | | | | | 30.8 | | coast redwood | Sequoia sempervirens | 70/18 | 30/35 | 30% poor | poor | | | | | | | 4 to 8 | | x | | 45% overall condition "poor". |
| 659 | Standard | | x | 10.0 | | | | | | 10.0 | | coast redwood | Sequoia sempervirens | 35/4 | 0/0 | 0% dead | dead | | | | | | | | | x | | 0% (Dead) |
| 660 | Standard | | x | 23.0 | | | | | | 23.0 | | coast redwood | Sequoia sempervirens | 70/15 | 30/20 | 25% very poor | very poor | | | | | | | | | x | S-trunk form between 60 and 65 feet elevation. | 30% overall condition "poor". |
| 661 | Standard | | x | 12.4 | | | | | | 12.4 | | coast redwood | Sequoia sempervirens | 30/8 | 50/30 | 35% poor | moderate | | | | | | | 20 | | x | | 28% overall condition "very poor". |
| 662 | Standard | | | 17.7 | | | | | | 17.7 | | coast redwood | Sequoia sempervirens | 50/15 | 60/45 | 50% fair | moderate | | | | | | | | | x | | 50% overall condition "fair". |
| 663 | Standard | | | 11.2 | | | | | | 11.2 | | coast redwood | Sequoia sempervirens | 50/10 | 55/50 | 50% fair | poor to mod | | | | | | | | | x | | 40% overall condition "poor". |
| 664 | Standard | | | 11.0 | | | | | | 11.0 | | coast redwood | Sequoia sempervirens | 50/10 | 50/50 | 50% fair | poor | | | | | | | | | x | | 40% overall condition "poor". |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinano (100" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|---|
| 66 | Standard | | | | 20.4 | | | | | | 20.4 | | coast redwood | Sequoia sempervirens | 65/18 | 60/55 | 58% fair | moderate | | | | | | | | | x | | 59% overall condition "fair". |
| 66 | Standard | | | | 20.9 | | | | | | 20.9 | | coast redwood | Sequoia sempervirens | 70/25 | 40/50 | 45% poor | poor | | | | | | | | | x | | 45% overall condition "poor". |
| 66 | Standard | | | | 16.7 | | | | | | 16.7 | | coast redwood | Sequoia sempervirens | 65/18 | 40/50 | 45% poor | poor | | | | | | | | | x | | 40% overall condition "poor". |
| 66 | Standard | | | | 9.1 | | | | | | 9.1 | | coast redwood | Sequoia sempervirens | 40/7 | 30/35 | 35% poor | poor | | | | | | | | | x | | 30% overall condition "poor". |
| 66 | Standard | х | x | | 9.9 | | | | | | 9.9 | | coast redwood | Sequola sempervirens | 40/7 | 30/30 | 30% poor | poor | | | | | | | | | x | This tree has a PG&E guy strap around its trunk which may eventually girdle the stem, possibly causing loss of stability within the stem cross section. | 10% overall condition "very poor". Tree still in 10 to 15% overall condition as of 831/2022. Removal approved per planning dept letter dated 10/18/2022. |
| 67 | Standard | | x | | 10.7 | | | | | | 10.7 | | coast redwood | Sequoia sempervirens | 40/6 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | 15% overall condition "very poor" in 2018.40% overall condition as of 8/31/2022, but top 7 feet of mainstem is dead. |
| 67 | Standard | | x | | 7.1 | | | | | | 7.1 | | coast redwood | Sequoia sempervirens | 30/6 | 25/25 | 25% very poor | very poor | | | | | | | | | x | | 15% overall condition "very poor". |
| 67. | Standard | | x | | 14.9 | | | | | | 14.9 | | coast redwood | Sequoia sempervirens | 50/12 | 40/40 | 40% poor | poor | | | | | | | | | x | | 25% overall condition "very poor". |
| 67 | Standard | | | | 22.2 | | | | | | 22.2 | | Shamel ash | Fraxinus uhdei | 50/25 | 30/35 | 33% poor | poor | | | | | | | | | x | | WLCA suggests monitoring for continued decline in vigor. 2020. |
| 67 | Standard | х | | | 24.2 | | | | | | 24.2 | | Shamel ash | Fraxinus uhdei | 55/25 | 35/40 | 36% poor | poor | | | | | | | | | x | | WLCA suggsts that we remove this tree for safety purposes. 2020. Only 1 root radius root plate remaining on west side due to PGE vault installation work. Removed by SHPCO Sept 2022. |
| 67 | Standard | | x | | 15.0 | | | | | | 15.0 | | Shamel ash | Fraxinus uhdei | 50/15 | 20/30 | 25% very poor | very poor | | | | | | At all elevations | | | x | | |
| 67 | Standard | | | | 16.6 | | | | | | 16.6 | | Shamel ash | Fraxinus uhdei | 65/18 | 30/30 | 30% poor | very poor | | | | | | | Various elevations | | x | | |
| 67 | Standard | | х | | 17.6 | | | | | | 17.6 | | Shamel ash | Fraxinus uhdei | 65/18 | 10/10 | 10% very poor | very poor | | | | | | At all elevations | | | x | | |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (In.) | Trunk 2 (In.) | Trunk 3 (In.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (In.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupentino Ordinario (10,0" single stem, 20" mult, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ORWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|-----------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|--|
| 67 | Standard | x | | | | 13.4 | | | | | | 13.4 | | Shamel ash | Fraxinus uhdei | 60/18 | 45/45 | 45% poor | poor to mod | E | | | | | | | | x | | WLCA suggests considering removal of tree in 2020. Only 1 root radius root plate remaining on west side due to PGE vault installation work. Tree removed by SHPCO in Sept 2022. |
| 67 | Standard | x | | | | 12.7 | | | | | | 12.7 | | Shamel ash | Fraxinus uhdei | 50/14 | 40/30 | 35% poor | poor | E | | | | | 6 | | | x | | Removed in January 2019 due to requirement to move PGE high voltage underground vault and associated conduit toward this tree. |
| 68 | Standard | х | | | | 15.6 | | | | | | 15.6 | | Shamel ash | Fraxinus uhdei | 60/25 | 50/35 | 40% poor | poor to mod | E | | | | | | | | x | | WLCA suggests considering removal of tree in 2020. 20% overall condition rating as of 8/31/2022. Tree removed by SHPCO in Sept 2022. |
| 68 | Standard | x | | | | 17.3 | | | | | | 17.3 | | Shamel ash | Fraxinus uhdei | 65/25 | 45/45 | 45% poor | moderate | E | | | | | | | | x | | |
| 68 | Standard | x | | | | 14.2 | | | | | | 14.2 | | Shamel ash | Fraxinus uhdei | 50/25 | 45/30 | 35% poor | poor to mod | E | | | | | | 9 | | x | | |
| 68 | Standard | x | | х | | 18.7 | | | | | | 18.7 | | Shamel ash | Fraxinus uhdei | 65/30 | 25/10 | 15% very poor | very poor | E | E | | | | 5 to 6 | | | x | Possible destabilized root plate. High risk tree. Remove. | FAILED DURING WINDSTORM 3/14/2023 60-MPH WINDS. REMOVED FROM SITE BY SHPCO. |
| 68 | Standard | x | | x | | 12.2 | | | | | | 12.2 | | Shamel ash | Fraxinus uhdei | 50/20 | 15/15 | 15% very poor | very poor | | | | | | | | | x | | Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-acuth orientation, thereby avoiding severe root loss to the remaining redwoods at property line. |
| 68 | Standard | х | | x | | 10.5 | | | | | | 10.5 | | Shamel ash | Fraxinus uhdei | 45/20 | 15/15 | 15% very poor | very poor | E | E | | | | | | | х | | Removed and stumps ground down, as of January, 2021, per permit to allow for new and control of the control of the control of the control of cut bin an onth-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line. |
| 68 | Standard | х | | | | 4.0 | | | | | | 4.0 | | coast redwood | Sequola sempervirens | 15/6 | 50/50 | 50% fair | moderate | | | | | | | | | х | | Removed and sturps ground down, as of January, 2021, per permit to allow for new willing trace, the permit to allow for new willing trace, and the permit the road orb in a morth-south cinetation, thereby avoiding se |
| 68 | Standard | х | | | | 11.4 | | | | | | 11.4 | | Shamel ash | Fraxinus uhdei | 45/25 | 40/35 | 37% poor | poor to mod | E | E | | | | | | | х | | Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line. |
| 68 | Standard | x | | | | 4.5 | | | | | | 4.5 | | coast redwood | Sequola sempervirens | 20/8 | 70/70 | 70% good | moderate | | | | | | | | | x | | Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tightined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elev ated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinano Ordinano (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Spiltout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & MOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
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| 689 | Standard | х | x | | 15.9 | | | | | | 15.9 | | Shamel ash | Fraxinus uhdei | 65/20 | 10/10 | 10% very poor | very poor | E | E | | | | | | | x | | Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-osub neientain, thereby avoiding severe root loss to the remaining redwoods at property line. |
| 691 | Standard | x | | | 4.9 | | | | | | 4.9 | | coast redwood | Sequola sempervirens | 18/6 | 70/70 | 70% good | moderate | | | | | | | | | x | | Removed and stumps ground down, as of January, 2021 per permit to allow for new utility trenching to be tightined against the road curb in a north-outh orientation, thereby avoiding severe root loss to the remaining redwoods at property line. |
| 69 | Standard | x | x | | 10.8 | | | | | | 10.8 | | Shamel ash | Fraxinus uhdei | 35/25 | 15/15 | 15% very poor | very poor | E | | | x | | | | | x | | Removed and stumps ground down, as of January, 2021, per permit, to allow for new tultility trenching to be signified against the road avoiding severe root loss to the remaining redwoods at property line. |
| 69: | Standard | x | | | 22.5 | | | | | | 22.5 | | Shamel ash | Fraxinus uhdei | 75/35 | 65/50 | 58% fair | mod to good | E | E | | | | | | | х | | Removed and stumps ground down, as of January, 2021, per permit, to allow for new tullity trenching to be tightined against the road avoiding severe root loss to the remaining redwoods at property line. |
| 69: | Standard | x | | | 28.0 | | | | | | 28.0 | | Shamel ash | Fraxinus uhdei | 70/40 | 65/50 | 57% fair | mod to good | E | E | | | | | 9 | | x | | Removed and stumps ground down, as of January, 2021, per permit, to allow for new set when the second control of the control of the corb in a north-eouth orientation, thereby avoiding severe root loss to the remaining redwoods at property line. |
| 694 | Standard | x | | | 21.3 | | | | | | 21.3 | | Shamel ash | Fraxinus uhdei | 70/35 | 40/40 | 40% poor | poor | | | | | | | 18 | | x | | Removed and stumps ground down, as of January, 2021 per permit to allow for new utility trenching to be tightined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line. |
| 69: | Standard | x | | | 28.3 | | | | | | 28.3 | | Shamel ash | Fraxinus uhdei | 70/35 | 60/50 | 55% fair | moderate | E | E | | | | | | | x | Roots severed with decay, on west side of root system. | Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tightined against the road curb in a north-aouth orientation, thereby avoiding severe root loss to the remaining redwoods at property line. |
| 691 | Standard | x | | | 23.9 | | | | | | 23.9 | | Shamel ash | Fraxinus uhdei | 75/30 | 50/50 | 50% fair | poor to mod | E | | | | | | | | х | | Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tightlined against the road curb in a north-aouth orientation, thereby avoiding severe root loss to the remaining redwoods at property line. |
| 691 | Standard | х | | | 25.3 | | | | | | 25.3 | | Shamel ash | Fraxinus uhdei | 75/30 | 45/35 | 43% poor | poor to mod | E | | | | GR | | 11 | | x | | Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-acuth orientation, thereby avoiding severe root loss to the remaining redwoods at property line. |

| Tree Tag# | | To be Removed Per Current Site Plan | Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | 'Protected Tree" per City of Cupertino Ordinance (16.0" single stem, 20" muti, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Heath & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|-------------|--|-------------------------------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|--|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 698 | Standard | х | | x | | 8.2 | | | | | | 8.2 | | coast redwood | Sequola sempervirens | 28/10 | 55/60 | 55% fair | poor to mod | | | | | | | | | x | | Removed and stumps ground down, as of January, 2021, per permit, to allow for new under the state of the stat |
| 699 | Standard | x | | x | | 8.4 | | | | | | 8.4 | | coast redwood | Sequoia sempervirens | 28/10 | 0/0 | 0% dead | dead | | | | | | | | | x | | 0% (Dead). REMOVED AS OF OCTOBER., 2018. |
| 700 | Standard | x | | x | | 7.5 | | | | | | 7.5 | | coast redwood | Sequoia sempervirens | 28/10 | 0/0 | 0% dead | dead | | | | | | | | | x | | 0% (Dead). REMOVED AS OF OCTOBER., 2018. |
| 701 | Standard | x | | x | | 8.2 | | | | | | 8.2 | | coast redwood | Sequoia sempervirens | 25/7 | 40/40 | 40% poor | poor | | | | | | | | | x | | 0% (Dead). REMOVED AS OF OCTOBER., 2018. |
| 702 | Standard | х | | х | | 8.1 | | | | | | 8.1 | | coast redwood | Sequoia sempervirens | 25/7 | 10/10 | 10% very poor | very poor | | | | | | | | | x | | 0% (Dead). REMOVED AS OF OCTOBER., 2018. |
| 703 | Standard | x | | | | 20.3 | | | | | | 20.3 | | coast redwood | Sequoia sempervirens | 40/20 | 40/40 | 40% poor | poor to mod | | | | | | | | | x | | 50% overall condition "fair". |
| 704 | Standard | | | x | | 11.3 | | | | | | 11.3 | | coast redwood | Sequoia sempervirens | 30/8 | 0/0 | 0% dead | dead | | | | | | | | | x | | 0% (Dead). |
| 705 | Standard | x | | x | | 10.3 | | | | | | 10.3 | | coast redwood | Sequoia sempervirens | 30/4 | 5/5 | 5% very poor | very poor | | | | | | | | | x | | 4% overall condition "very poor". REMOVED AS OF OCTOBER, 2018. |
| 706 | Standard | | | x | | 11.0 | | | | | | 11.0 | | coast redwood | Sequoia sempervirens | 30/8 | 10/10 | 10% very poor | very poor | | | | | | 1 | | | x | | 13% overall condition "very poor". WLCA suggests removal in 2020. |
| 707 | Standard | | | x | | 5.8 | | | | | | 5.8 | | coast redwood | Sequoia sempervirens | 25/6 | 10/10 | 10% very poor | very poor | | | | | | | | | x | | 7% overall condition "very poor". WLCA suggests removal in 2020. |
| 708 | Standard | | | x | | 11.5 | | | | | | 11.5 | | coast redwood | Sequoia sempervirens | 30/8 | 40/40 | 40% poor | poor | | | | | | | | | x | | 15% overall condition "very poor". WLCA suggests removal in 2020. |
| 709 | Not In Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE. |
| 710 | Standard | | | | | 12.3 | | | | | | 12.3 | | coast redwood | Sequoia sempervirens | 35/8 | 40/40 | 40% poor | | | | | | | | | | x | | 35% overall condition "poor". |

| Tree Tag # | To be Removed Per Current Site Plan Removed by highway | Project Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Irunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Heaith & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONYARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bive and N. Wolfe Rd Were Updated in Fall, 2023. |
|-------------------|--|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| Standard | x | x | 1 | 1.3 | | | | | | 11.3 | | coast redwood | Sequoia sempervirens | 40/4 | 10/10 | 10% very poor | very poor | | | | | | | | | x | | 0% (Dead). WLCA suggests removal 2020. Tree still standing dead 0% condition 8/31/2022. Tree removed by SHPCO in Sept 2022. |
| Standard | | | 8 | .4 | | | | | | 8.4 | | coast redwood | Sequoia sempervirens | 30/8 | 30/30 | 30% poor | poor | | | | | | | | | x | | 30% overall condition "poor". |
| Mandard 212 | | | 1 | 1.4 | | | | | | 11.4 | | coast redwood | Sequoia sempervirens | 35/6 | 40/40 | 40% poor | poor | | | | | | | | | x | | 40% overall condition "poor". |
| 714 Standard | | x | 7 | .3 | | | | | | 7.3 | | coast redwood | Sequoia sempervirens | 30/6 | 15/15 | 15% very poor | very poor | | | | | | | | | x | | POTENTIAL REMOVAL PER WLCA. |
| Standard Standard | | | 11 | 9.5 | | | | | | 19.5 | | coast redwood | Sequoia sempervirens | 50/15 | 45/45 | 45% poor | poor | | | | | | | | | x | | 35% overall condition "poor". |
| Standard Standard | | x | 4 | .3 | | | | | | 4.3 | | coast redwood | Sequoia sempervirens | 17/5 | 0/0 | 0% dead | dead | | | | | | | | | x | | POTENTIAL REMOVAL PER WLCA. |
| Standard | x | x | 11 | 0.1 | | | | | | 10.1 | | coast redwood | Sequoia sempervirens | 30/7 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | removed by SHPCO in 2017, DEAD. |
| Standard | x | x | 7 | .0 | | | | | | 7.0 | | coast redwood | Sequoia sempervirens | 20/4 | 0/0 | 0% dead | dead | | | | | | | | | x | | removed by SHPCO in 2017, DEAD. |
| Standard | x | x | 1 | 1.4 | | | | | | 11.4 | | coast redwood | Sequoia sempervirens | 40/15 | 0/0 | 0% dead | dead | | | | | | | | | x | | removed by SHPCO in 2017, DEAD. |
| Standard Standard | x | x | 9 | ut | | | | | | 9.1 | | coast redwood | Sequola sempervirens | 50/7 | 0/0 | 0% dead | dead | | | | | | | | | x | | removed by shpco 2019 due to death of tree. |
| Standard Standard | | x | 1: | 5.3 | | | | | | 15.3 | | coast redwood | Sequoia sempervirens | 50/12 | 10/10 | 10% very poor | very poor | | | | | | | | | x | | POTENTIAL REMOVAL PER WLCA. |
| Standard | | x | 1 | 1.5 | | | | | | 11.5 | | coast redwood | Sequoia sempervirens | 50/10 | 20/20 | 20% very poor | very poor | | | | | | | | | x | | POTENTIAL REMOVAL PER WLCA. |
| 723 Standard | x | | 2 | 1.0 | | | | | | 21.0 | | Monterey pine | Pinus radiata | 55/20 | 50/40 | 48% poor | moderate | E | E | | | | | | | x | | 40% overall condition "poor". Being removed December 2018 for trenching PG&E electrical. |
| 724 Paragard | | х | 1: | 3.9 | | | | | | 13.9 | | coast redwood | Sequoia sempervirens | 50/9 | 15/15 | 15% very poor | very poor | | | | | | | | | x | | POTENTIAL REMOVAL PER WLCA. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan | Removed by nighway Project Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) Adjus ted Trunk Diameter inches @ 54" A.G. (142-344-6) | "Protected Tree" per City of Cuperino Ordinance (10,0," single et em, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONYARD, Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|--|---|--|---------------|---------------|---------------|---------------|--|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|--|
| 725 | Standard | x | x | 22. | 0 | | | | 22.0 | | Monterey pine | Pinus radiata | 55/25 | 35/40 | 38% poor | poor | | | | | | | | | x | | Tree removed as of 2014 by SHPCO due to property owner to west request in order to stop leaf litter from dropping into his swimming pool. |
| 726 | Standard | x | х | 20. | .9 | | | | 20.9 | | Monterey pine | Pinus radiata | 50/25 | 30/25 | 28% very poor | very poor | SE | SE | | | | | | | x | | Tree removed as of 2014 by SHPCO due to property owner to west request in order to stop leaf litter from dropping into his swimming pool. |
| 727 | Standard | | х | 13. | 5 | | | | 13.5 | | coast redwood | Sequoia sempervirens | 50/12 | 40/25 | 30% poor | poor | | | | | | | | | x | | 15% overall condition "very poor". |
| 728 | Standard | x | x | 12. | 8 | | | | 12.8 | | coast redwood | Sequoia sempervirens | 45/10 | 10/15 | 13% very poor | very poor | E | | | | | | | | x | | removed by SHPCO in 2017, DEAD. |
| 729 | Standard | | | 9.6 | . | | | | 9.0 | | coast redwood | Sequola sempervirens | 40/5 | 60/30 | 45% poor | moderate | | | | | | | | | x | | 35% overall condition "poor". |
| 730 | Standard | | | 14. | 0 | | | | 14.0 | | coast redwood | Sequoia sempervirens | 50/9 | 50/50 | 50% fair | moderate | | | | | | | | | x | Difficult to assess visually. | 40% overall condition "poor". |
| 731 | Standard | x | х | 14. | 7 | | | | 14.7 | | Shamel ash | Fraxinus uhdei | 55/25 | 25/25 | 25% very poor | very poor | E | E | | | | | | | x | | |
| 732 | Standard | х | x | 24. | 3 | | | | 24.3 | | Shamel ash | Fraxinus uhdei | 55/25 | 25/25 | 25% very poor | very poor | E | | | | GR | | 7 | | x | | Removed by SHPCO between 2014 and 2017 either due to tree death or due to properly owner to west requesting removal to stop leaf litter falling into swimming pool. |
| 733 | Standard | x | | 19. | 2 | | | | 19.2 | | Shamel ash | Fraxinus uhdei | 55/30 | 40/35 | 38% poor | poor | E | | | | | 1 foot (car impact) | | | x | | Removed by SHPCO between 2014 and 2017 either due to tree death or due to properly owner to west requesting removal to stop leaf litter falling into swimming pool. |
| 734 | Standard | x | | 17. | 1 | | | | 17.1 | | Shamel ash | Fraxinus uhdei | 45/30 | 35/35 | 35% poor | poor | | | | | | | | | x | Circling roots. Roots damaged on grade. | WLCA suggests monitoring for decline and/or instability. 2020. |
| 735 | Standard | x | x | 17. | 5 | | | | 17.5 | | Shamel ash | Fraxinus uhdei | 55/25 | 20/20 | 20% very poor | very poor | E | | | | | 1 foot (car impact) | | | x | | WLCA suggests monitoring for decline and/or instability. 2020. |
| 736 | Standard | x | х | 19. | 1 | | | | 19.1 | | Shamel ash | Fraxinus uhdei | 45/35 | 25/25 | 25% very poor | very poor | | | | | | Various elevations | | | х | | WLCa suggests monitoring for decline. Potential removal tree. |
| 737 | Standard | x | | 20. | 7 | | | | 20.7 | | Shamel ash | Fraxinus uhdei | 55/30 | 30/40 | 35% poor | poor | E | | | | | | 20 | | х | Roots severed and damaged on grade. | WLCa suggests monitoring for decline. Potential removal tree. |
| 738 | Standard | x | | 21. | 7 | | | | 21.7 | | Shamel ash | Fraxinus uhdei | 50/30 | 40/40 | 40% poor | poor | s | | | | GR | | | | x | | WLCa suggests monitoring for decline. Potential removal tree. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan | Removed by highway Project Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) Trunk 2 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) Adjus ted Trunk Diame ter inches @ 54" A.G. (142+3+4+5) | 'Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" muti, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) Codominant | Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONIVARD. Condition Ratings for All Ach Specimens Along Stevens Creek Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|--|---|---|---------------|---------------|---|--|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--|---|---|---|---------------------------------------|---|
| 739 | Standard | x | | 23.7 | | | 23.7 | | Shamel ash | Fraxinus uhdei | 65/30 | 25/25 | 25% very poor | very poor | E | | | | | | | | x | | WLCa suggests monitoring for decline or instability. Potential removal tree. |
| 740 | Standard | | | 26.0 | | | 26.0 | | Shamel ash | Fraxinus uhdei | 45/35 | 65/50 | 56% fair | good | | | | x | GR | | | x | x | | |
| 741 | Standard | | | 24.5 | | | 24.5 | | Shamel ash | Fraxinus uhdei | 50/30 | 40/40 | 40% poor | poor | | | | x | | | | x | x | | |
| 742 | Standard | | | 27.2 | | | 27.2 | | Shamel ash | Fraxinus uhdei | 50/30 | 50/40 | 48% poor | moderate | | | | | | V ele | arious vations | x | x | | |
| 743 | Standard | | | 30.1 | | | 30.1 | | Shamel ash | Fraxinus uhdei | 50/40 | 60/45 | 50% fair | moderate | | | | | | | | x | x | | |
| 744 | Standard | x | | 25.2 | | | 25.2 | | Shamel ash | Fraxinus uhdei | 55/30 | 50/40 | 45% poor | moderate | | | | x | | | | x | x | Roots pruned near mainstem. | |
| 745 | Standard | x | | 14.2 | | | 14.2 | | Shamel ash | Fraxinus uhdei | 30/20 | 35/30 | 35% poor | poor | | | | x | | 9 | | x | x | | |
| 746 | Standard | x | | 24.1 | | | 24.1 | | Shamel ash | Fraxinus uhdei | 50/25 | 60/50 | 55% fair | moderate | E | | | x | | | | | x | | |
| 747 | Standard | x | | 18.6 | | | 18.6 | | Shamel ash | Fraxinus uhdei | 60/25 | 60/30 | 38% poor | moderate | E | | | | GR | vi ele | arious vations | | x | | |
| 748 | Standard | x | | 21.7 | | | 21.7 | | Shamel ash | Fraxinus uhdei | 55/30 | 50/45 | 49% poor | moderate | E | | | | GR serious condition. | | | | x | | |
| 749 | Standard | x | | 16.0 | | | 16.0 | | Shamel ash | Fraxinus uhdei | 50/20 | 30/30 | 30% poor | poor | E | | | x | | | | | x | | |
| 750 | Standard | x | | 17.3 | | | 17.3 | | Shamel ash | Fraxinus uhdei | 50/25 | 40/40 | 40% poor | poor | E | | | | | | | | x | | |
| 751 | Standard | x | | 15.8 | | | 15.8 | | Shamel ash | Fraxinus uhdei | 55/25 | 25/25 | 25% very poor | poor | E | E | | | | | | | x | Circling roots. | |
| 752 | Standard | x | | 18.5 | | | 18.5 | | Shamel ash | Fraxinus uhdei | 55/30 | 55/45 | 50% fair | moderate | E | E | | | | 8 | | | x | | |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project Author Recommends | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|-----------|--|------------------------------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 753 | Standard | x | | | | 19.8 | | | | | | 19.8 | | Shamel ash | Fraxinus uhdei | 50/30 | 50/45 | 49% poor | poor | E | E | | | | | | | x | | |
| 754 | Standard | x | | | | 21.8 | | | | | | 21.8 | | Shamel ash | Fraxinus uhdei | 65/25 | 55/40 | 45% poor | moderate | E | E | | x | GR | | | | x | | |
| 755 | Standard | x | | | | 20.1 | | | | | | 20.1 | | Shamel ash | Fraxinus uhdei | 55/25 | 60/50 | 55% fair | moderate | E | | | | | | | | x | | |
| 756 | Standard | x | | | | 18.1 | | | | | | 18.1 | | Shamel ash | Fraxinus uhdei | 60/30 | 50/45 | 49% poor | poor to mod | E | E | | | GR | 6 | | | x | | |
| 757 | Standard | x | | | | 16.8 | | | | | | 16.8 | | Shamel ash | Fraxinus uhdei | 60/25 | 40/40 | 40% poor | poor | | | | | | | 8 | | x | | |
| 758 | Standard | x | | x | | 19.3 | | | | | | 19.3 | | Shamel ash | Fraxinus uhdei | 55/30 | 25/25 | 25% very poor | very poor | E | E | | | | | | | x | | |
| 759 | Standard | x | | | | 18.2 | | | | | | 18.2 | | Shamel ash | Fraxinus uhdei | 60/30 | 35/35 | 35% poor | poor | E | E | | | | | | | x | | |
| 760 | Standard | x | | | | 20.8 | | | | | | 20.8 | | Shamel ash | Fraxinus uhdei | 60/35 | 40/30 | 35% poor | poor | E | E | | | | | | | x | | |
| 761 | Standard | x | | | | 15.4 | | | | | | 15.4 | | Shamel ash | Fraxinus uhdei | 50/30 | 60/35 | 40% poor | moderate | E | E | | | | | 8 | | x | | |
| 762 | Standard | x | | | | 17.1 | | | | | | 17.1 | | Shamel ash | Fraxinus uhdei | 50/35 | 35/35 | 35% poor | | | | | | GR | | | | x | | |
| 763 | Standard | x | | x | | 23.5 | | | | | | 23.5 | | Shamel ash | Fraxinus uhdei | 65/35 | 15/15 | 15% very poor | very poor | E | | | | | | 9 | | x | | |
| 764 | Standard | x | | x | | 13.6 | | | | | | 13.6 | | Shamel ash | Fraxinus uhdei | 50/20 | 10/10 | 10% very poor | very poor | E | | | | | | | | x | | |
| 765 | Standard | x | | | | 16.0 | | | | | | 16.0 | | Shamel ash | Fraxinus uhdei | 50/25 | 30/30 | 30% poor | poor | E | E | | | | | | | x | | |
| 766 | Standard | x | | | | 18.5 | | | | | | 18.5 | | Shamel ash | Fraxinus uhdei | 50/30 | 40/40 | 40% poor | poor | E | E | | | GR | | | | x | | |

| Tree Tag # | To be Removed Per Current Site Plan | Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) | Terrole 2 (In.) | HUIR Z (III.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinanco (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Heath & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2817 OWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
|-------------------|--|-------------------------------|--|--|-----------------|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|--|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|---|
| Standard | x | | | 18. | 8 | | | | | | 18.8 | | Shamel ash | Fraxinus uhdei | 60/30 | 35/45 | 40% poor | poor | E | E | | | | | | | x | | |
| Standard 89. | x | | x | 14. | 5 | | | | | | 14.5 | | Shamel ash | Fraxinus uhdei | 55/30 | 20/20 | 20% very poor | very poor | E | E | | | | | | | x | Roots damaged on grade. | |
| 769 Standard | x | | | 23. | 8 | | | | | | 23.8 | | Shamel ash | Fraxinus uhdei | 65/35 | 55/35 | 40% poor | moderate | E | E | | | serious girdling root | | 15 | | x | | |
| Standard | x | | | 16. | 3 | | | | | | 16.3 | | Shamel ash | Fraxinus uhdei | 55/25 | 30/30 | 30% poor | poor | E | | | | | | 10 | | x | | |
| Standard | x | | | 16. | 1 | | | | | | 16.1 | | Shamel ash | Fraxinus uhdei | 55/30 | 60/45 | 55% fair | moderate | E | | | | | | | | x | | |
| 772 Standard | | | | 33. | 6 | | | | | | 33.6 | | coast redwood | Sequoia sempervirens | 75/20 | 70/70 | 70% good | moderate | | | | | | | | | x | | 75% overall condition "good". |
| 773 Standard | | | | 16. | 4 | | | | | | 16.4 | | coast redwood | Sequola sempervirens | 60/13 | 60/60 | 60% fair | moderate | | | | | | | | | x | | 50% overall condition "fair" |
| 774 gandard | | | | 18. | 5 | | | | | | 18.5 | | coast redwood | Sequoia sempervirens | 60/15 | 75/60 | 67% fair | moderate | | | | | | | | | x | | 60% overall condition "fair" |
| 775 Standard | | | | 10. | 7 | | | | | | 10.7 | | coast redwood | Sequoia sempervirens | 30/6 | 60/50 | 55% fair | moderate | | | | | | | | | x | | 40% overall condition "poor" |
| Standard Standard | | | | 34. | 2 | | | | | | 34.2 | | coast redwood | Sequoia sempervirens | 75/25 | 70/70 | 70% good | moderate | | | | | | | | | x | | 75% overall condition "good". |
| Standard Standard | | | х | 7.8 | 3 | | | | | | 7.8 | | coast redwood | Sequoia sempervirens | 25/6 | 55/35 | 40% poor | moderate | w | w | | | | | | | x | | 20% overall condition "very poor" |
| 778 Standard | | | | 28. | 8 | | | | | | 28.8 | | coast redwood | Sequoia sempervirens | 75/25 | 70/70 | 70% good | moderate | | | | | | | | | x | | 75% overall condition "good". |
| Standard 622 | | | | 16. | 8 | | | | | | 16.8 | | coast redwood | Sequoia sempervirens | 50/13 | 65/55 | 60% fair | moderate | | | | | | | | | x | | 75% overall condition "good". |
| Standard | | | x | 7.0 |) | | | | | | 7.0 | | coast redwood | Sequoia sempervirens | 35/6 | 55/35 | 45% poor | moderate | | | | | | | | | x | | 28% overall condition "very poor" |

| Tree Type To be Removed Per Current Ske Plan | Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (142+3+4+5) | Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" muti, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Worle Rd Were Updated in Fall, 2022. |
|--|-------------------------------|--|--|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| Standard Standard | | | 21.6 | | | | | | 21.6 | | coast redwood | Sequoia sempervirens | 65/15 | 60/40 | 47% poor | moderate | | | | | | | 15 | | x | | 30% overall condition "poor". |
| 782 Standard | | | 32.1 | | | | | | 32.1 | | coast redwood | Sequoia sempervirens | 35/20 | 70/70 | 70% good | moderate | | | | | | | | | x | | 75% overall condition "good". |
| 783 Standard | | | 26.0 | | | | | | 26.0 | | coast redwood | Sequoia sempervirens | 85/20 | 70/70 | 70% good | moderate | | | | | | | | | x | | 70% overall condition "good. |
| Standard Standard | | | 16.1 | | | | | | 16.1 | | coast redwood | Sequoia sempervirens | 75/15 | 70/65 | 70% good | moderate | | | | | | | | | x | | 50% overall condition "fair" |
| Standard | | | 21.9 | | | | | | 21.9 | | coast redwood | Sequoia sempervirens | 75/15 | 70/70 | 70% good | moderate | | | | | | | | | x | | 60% overall condition "fair" |
| Standard | | x | 13.0 | | | | | | 13.0 | | coast redwood | Sequoia sempervirens | 50/8 | 50/35 | 40% poor | poor | w | | | | | | | | x | | 25% overall condition "very poor". |
| Standard | | x | 17.8 | | | | | | 17.8 | | coast redwood | Sequoia sempervirens | 65/10 | 60/35 | 40% poor | poor | w | | | | | | | | x | | 25% overall condition "very poor". |
| Standard 88. | | | 20.1 | | | | | | 20.1 | | coast redwood | Sequoia sempervirens | 90/15 | 60/60 | 60% fair | poor to mod | | | | | | | | | x | | 50% overall condition "fair" |
| 789 Standard | | | 23.4 | | | | | | 23.4 | | coast redwood | Sequoia sempervirens | 80/15 | 75/70 | 73% good | moderate | | E | | | | | | | x | | 70% overall condition "good. |
| Standard Standard | | | 19.5 | | | | | | 19.5 | | coast redwood | Sequoia sempervirens | 80/18 | 75/75 | 75% good | moderate | | | | | | | | | x | | 60% overall condition "fair" |
| Standard Standard | | | 17.1 | 15.1 | | | | | 32.2 | | coast redwood | Sequoia sempervirens | 70/20 | 70/60 | 65% fair | | | | | | | | 2 | | x | | 65% overall condition "fair". |
| 792 Standard | | | 28.2 | | | | | | 28.2 | | coast redwood | Sequoia sempervirens | 90/20 | 70/70 | 70% good | moderate | | | | | | | | | x | | 70% overall condition "good. |
| 793 Standard | | | 21.9 | | | | | | 21.9 | | coast redwood | Sequoia sempervirens | 70/15 | 65/60 | 62% fair | moderate | | | | | | | | | x | | 59% overall condition "fair". |
| 794 Standard | | x | 22.0 | | | | | | 22.0 | | coast redwood | Sequoia sempervirens | 50/15 | 60/40 | 47% poor | moderate | | | | | | 0 to 2 | | | x | Apical stem splitout | 27% overall condition "very poor". |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinano Ordinano (10,0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Note d) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|----------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|---|
| 795 | Standard | | | | 24.0 | | | | | | 24.0 | | coast redwood | Sequoia sempervirens | 85/20 | 70/70 | 70% good | moderate | | | | | | | | | x | | 70% overall condition "good. |
| 796 | Standard | | | | 45.5 | | | | | | 45.5 | | coast redwood | Sequoia sempervirens | 90/30 | 75/75 | 75% good | good | | | | | | | | | x | | 78% overall condition "good". |
| 797 | Standard | | | | 14.8 | | | | | | 14.8 | | coast redwood | Sequoia sempervirens | 50/8 | 50/40 | 47% poor | moderate | | | | | | | | | x | Supressed in shade | 35% overall condition "poor". |
| 798 | Standard | | | | 12.6 | | | | | | 12.6 | | coast redwood | Sequola sempervirens | 60/12 | 60/40 | 48% poor | poor | | E | | | | | 20 | | x | | 25% overall condition "very poor". |
| 799 | Standard | | | | 22.6 | | | | | | 22.6 | | coast redwood | Sequola sempervirens | 80/13 | 70/70 | 70% good | moderate | | | | | | | | | x | | 65% overall condition "fair". |
| 800 | Standard | | | | 21.8 | | | | | | 21.8 | | coast redwood | Sequoia sempervirens | 65/13 | 65/65 | 65% fair | moderate | | | | | | | | | x | | 65% overall condition "fair". |
| 801 | Standard | | | | 17.3 | | | | | | 17.3 | | coast redwood | Sequoia sempervirens | 55/9 | 50/50 | 50% fair | poor | w | w | | | | | | | x | | 30% overall condition "poor". |
| 802 | Standard | | | | 32.5 | | | | | | 32.5 | | coast redwood | Sequola sempervirens | 90/25 | 50/50 | 50% fair | poor | | | | | | | | | x | Difficult to assess visually. | 50% overall condition "fair" |
| 803 | Standard | | | | 15.0 | | | | | | 15.0 | | coast redwood | Sequola sempervirens | 60/9 | 30/30 | 30% poor | poor | | | | | | | | | x | | 30% overall condition "poor". |
| 804 | Standard | x | x | | 32.4 | | | | | | 32.4 | | coast redwood | Sequola sempervirens | 90/18 | 60/60 | 60% fair | poor to mod | | | | | | | | | x | Removal approved per planning dept letter dated 10/18/2022 | 20% overall condition "very poor". This tree was illegally pruned in April 2020 or May 2020 by neighbor to west of West Perimeter Road, who apparently cut out a large number of dead limbs extending into their property airspace (see photos in May 15, 2020 inspection report). 226621 that this tree is in 10% overall condition, and is now "bushing out" with new twig growth from the mainstem. 8/31/2022 same 10% overall condition rating. |
| 805 | Standard | | | | 13.0 | | | | | | 13.0 | | coast redwood | Sequoia sempervirens | 50/5 | 40/40 | 40% poor | poor | | | | | | | | | x | S-trunk form | 30% overall condition "poor". |
| 806 | Standard | | | | 16.8 | | | | | | 16.8 | | coast redwood | Sequoia sempervirens | 50/10 | 60/55 | 58% fair | moderate | | | | | | | | | x | | 40% overall condition "poor" |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project | Author Recommends Removal Due to Very Boor Condition or Elevated Risk of Fallure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | Protected Tree" per City of Cuperino Ordinance (16.0" single stem, 20" muti, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Pall, 2023. |
|-----------|-----------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 807 | Standard | x | | x | | 12.1 | | | | | | 12.1 | | coast redwood | Sequoia sempervirens | 60/12 | 50/55 | 53% fair | poor to mod | | | | | | | | | x | | Tree removed. October 2018. |
| 808 | Standard | x | | x | | 24.5 | | | | | | 24.5 | | coast redwood | Sequoia sempervirens | 90/20 | 40/30 | 33% poor | poor | | | | | | | 55 | | x | | Tree removed. October 2018. |
| 809 | Standard | | | x | | 11.0 | | | | | | 11.0 | | coast redwood | Sequoia sempervirens | 55/15 | 60/50 | 55% fair | poor to mod | | | | | | | | | x | | 37% overall condition (poor) |
| 810 | Standard | х | | x | | 15.0 | | | | | | 15.0 | | coast redwood | Sequola sempervirens | 75/8 | 10/10 | 10% very poor | very poor | | | | | | | | | x | | Tree removed in May/June 2021 by Valico team due to dead condition. |
| 811 | Standard | | | x | | 5.6 | | | | | | 5.6 | | coast redwood | Sequola sempervirens | 30/6 | 40/30 | 35% poor | poor | | | | | | | | | x | | 25% overall condition "very poor". |
| 812 | Standard | | | x | | 23.2 | | | | | | 23.2 | | coast redwood | Sequoia sempervirens | 80/20 | 0/0 | 0% dead | dead | | | | | | | | | x | S - trunk form. | 0% (Dead) |
| 813 | Standard | | | x | | 13.3 | | | | | | 13.3 | | coast redwood | Sequola sempervirens | 70/16 | 10/10 | 10% very poor | very poor | | | | | | | | | x | | 7% overall condition (very poor) |
| 814 | Standard | x | | x | | 24.4 | | | | | | 24.4 | | coast redwood | Sequoia sempervirens | 85/20 | 0/0 | 0% dead | dead | | | | | | | | | x | | Tree removed. October 2018. |
| 815 | Standard | x | | x | | 9.0 | | | | | | 9.0 | | coast redwood | Sequoia sempervirens | 40/5 | 0/0 | 0% dead | dead | | | | | | | | | x | | Tree removed. October 2018. |
| 816 | Standard | | | x | | 16.5 | | | | | | 16.5 | | coast redwood | Sequoia sempervirens | 80/12 | 50/50 | 50% fair | poor | | | | | | | | | x | | 20% overall condition "very poor". |
| 817 | Standard | | | x | | 11.9 | | | | | | 11.9 | | coast redwood | Sequoia sempervirens | 35/6 | 50/40 | 43% poor | poor | | | | | | | | | x | | 15% overall condition "very poor". |
| 818 | Standard | | | | | 25.4 | | | | | | 25.4 | | coast redwood | Sequola sempervirens | 80/18 | 60/60 | 60% fair | moderate | | | | | | | | | x | | 60% overall condition "fair" |
| 819 | Standard | | | | | 12.4 | | | | | | 12.4 | | coast redwood | Sequola sempervirens | 55/13 | 50/40 | 45% poor | poor | | | | | | | | | x | | 30% overall condition "poor". |
| 820 | Standard | | | | | 26.3 | | | | | | 26.3 | | coast redwood | Sequoia sempervirens | 90/25 | 55/60 | 58% fair | poor to mod | | | | | | | | | x | | 70% overall condition "good. |

| Tree Tag # | To be Removed Per Current Site Plan Removed by highway | Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter inches @ 54" A.G. (1+2+3+4+5) | 'Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Heaith & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2923. |
|-----------------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| Standard | x | | x | | 4.6 | | | | | | 4.6 | | coast redwood | Sequoia sempervirens | 30/3 | 0/0 | 0% dead | dead | | | | | | | | | x | | 12% overall condition "very poor". TREE REMOVED AS OF OCTOBER 2018. |
| Standard | | | | | 23.4 | | | | | | 23.4 | | coast redwood | Sequoia sempervirens | 90/20 | 50/50 | 50% fair | poor | | | | | | | 18 | | x | | 55% overall condition "fair" |
| Standard | | | | | 17.9 | | | | | | 17.9 | | coast redwood | Sequoia sempervirens | 100/15 | 50/35 | 40% poor | poor | | | | | | | 70 | | x | | 40% overall condition "poor" |
| 824 p.epuepuepu | | | | | 29.3 | | | | | | 29.3 | | coast redwood | Sequoia sempervirens | 100/20 | 40/40 | 40% poor | poor to mod | | | | | | | 25 | | x | | 75% overall condition "good". |
| 825 Standard | | | x | | 7.8 | | | | | | 7.8 | | coast redwood | Sequoia sempervirens | 30/8 | 40/20 | 29% very poor | poor | | | | | | | | | x | | 18% overall condition "very poor" |
| 826 Standard | | | | | 11.1 | | | | | | 11.1 | | coast redwood | Sequoia sempervirens | 35/12 | 60/50 | 50% fair | poor to mod | E | | | | | | | | x | Bow form trunk. | 40% overall condition "poor" |
| 827 paguaga | | | х | | 10.7 | | | | | | 10.7 | | coast redwood | Sequoia sempervirens | 35/10 | 0/0 | 0% dead | dead | | | | | | | | | x | Bow form trunk. | 0% (Dead) |
| 828 Standard | | | | | 11.7 | | | | | | 11.7 | | coast redwood | Sequoia sempervirens | 50/8 | 30/30 | 30% poor | poor | | | | | | | 20 | | x | | 30% overall condition "poor". |
| 829 gray | | | | | 27.2 | | | | | | 27.2 | | coast redwood | Sequoia sempervirens | 95/25 | 70/70 | 70% good | moderate | | | | | | | | | x | | 70% overall condition "good. |
| Standard 058 | | | | | 15.2 | | | | | | 15.2 | | coast redwood | Sequoia sempervirens | 40/16 | 45/30 | 37% poor | poor to mod | | | | | | | 20 | | x | | 35% overall condition "poor". |
| 831 Standard | | | | | 11.0 | | | | | | 11.0 | | coast redwood | Sequoia sempervirens | 40/8 | 30/40 | 37% poor | poor | | sw | | | | | | | x | | 38% overall condition "poor". |
| 832 paguaga | | | | | 13.0 | | | | | | 13.0 | | coast redwood | Sequoia sempervirens | 45/11 | 60/55 | 59% fair | moderate | | | | | | | | | x | | 30% overall condition "poor". |
| Standard | | | | | 26.6 | | | | | | 26.6 | | coast redwood | Sequoia sempervirens | 70/30 | 70/65 | 69% fair | moderate | | | | | | | 30 | | x | | 78% overall condition "good" . |
| 834 puets | x | | х | | 5.8 | | | | | | 5.8 | | coast redwood | Sequola sempervirens | 30/5 | 20/20 | 20% very poor | very poor | | SE | | | | | | | x | | 5% overall condition "very poor" in 2018, 15% overall condition as of 8/31/2022. Removal approved per planning dept letter dated 10/18/2022 |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinaco (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Brd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|---------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|---|
| 835 | Standard | | | | 15.8 | 11.0 | | | | | 26.8 | | coast redwood | Sequoia sempervirens | 85/18 | 60/50 | 55% fair | poor to mod | | | | | | | 2 | | x | | 45% overall condition "poor". |
| 836 | Standard | x | x | | 9.8 | | | | | | 9.8 | | coast redwood | Sequoia sempervirens | 30/12 | 25/25 | 25% very poor | very poor | | s | | | | | | | x | | Tree removed. October 2018. |
| 837 | Standard | | | | 15.2 | | | | | | 15.2 | | coast redwood | Sequoia sempervirens | 45/10 | 50/40 | 45% poor | poor to mod | w | NW | | | | | | | x | | 30% overall condition "poor". |
| 838 | Standard | | | | 23.9 | | | | | | 23.9 | | coast redwood | Sequoia sempervirens | 85/20 | 45/45 | 45% poor | poor | | | | | | | | | х | | 60% overall condition "fair" |
| 839 | Standard | | | | 26.1 | | | | | | 26.1 | | coast redwood | Sequoia sempervirens | 90/25 | 60/60 | 60% fair | moderate | | | | | | | | | x | | 70% overall condition "good. |
| 840 | Standard | x | x | | 10.8 | 9.0 | | | | | 19.8 | | coast redwood | Sequoia sempervirens | 60/8 | 35/35 | 35% poor | poor | | | | | | | 20 | | x | | 20% overall condition "very poor", 15% overall condition as of 8/31/2022. Removal approved per planning dept letter dated 10/18/2022 |
| 841 | Standard | | | | 21.2 | | | | | | 21.2 | | coast redwood | Sequoia sempervirens | 80/13 | 60/50 | 53% fair | poor to mod | | | | | | | | | x | Sweep form trunk. Apical meristem appears gone. | 35% overall condition "poor". |
| 842 | Standard | | | | 27.2 | 8.5 | | | | | 35.7 | | coast redwood | Sequoia sempervirens | 90/15 | 70/70 | 70% good | moderate | | | | | | | | | x | | 75% overall condition "good". |
| 843 | Standard | x | x | | 10.8 | | | | | | 10.8 | | coast redwood | Sequoia sempervirens | 55/4 | 10/10 | 10% very poor | very poor | | | | | | | 15 | | x | | Tree has been removed. October 2018. |
| 844 | Standard | | | | 16.4 | | | | | | 16.4 | | coast redwood | Sequoia sempervirens | 80/20 | 60/40 | 50% fair | poor to mod | | | | | | | | | x | | 75% overall condition "good". |
| 845 | Standard | | | | 28.2 | | | | | | 28.2 | | coast redwood | Sequola sempervirens | 90/25 | 70/70 | 70% good | moderate | | | | | | | | | х | | 30% overall condition "poor". |
| 846 | Standard | | x | | 14.7 | | | | | | 14.7 | | coast redwood | Sequola sempervirens | 45/6 | 50/45 | 48% poor | poor to mod | | | | | | | | | х | | Neighbors sheared tree in October, 2020. Expect tree to deciline over time. |
| 847 | Standard | | | | 11.5 | 9.5 | | | | | 21.0 | | coast redwood | Sequoia sempervirens | 45/10 | 50/50 | 50% fair | poor to mod | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjus ted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinane (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--|---|---------------|-------------------------------------|-----------------------------------|---|---|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|---|
| 84 | Standard | | | | 23.9 | | | | | | 23.9 | | coast redwood | Sequoia sempervirens | 90/20 | 50/50 | 50% fair | poor to mod | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 84 | Standard | | | | 20.5 | | | | | | 20.5 | | coast redwood | Sequoia sempervirens | 80/18 | 60/50 | 55% fair | poor to mod | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 85 | Standard | | | | 18.3 | | | | | | 18.3 | | coast redwood | Sequoia sempervirens | 80/15 | 55/50 | 54% fair | poor to mod | | E | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 85 | Standard | | | | 24.5 | | | | | | 24.5 | | coast redwood | Sequoia sempervirens | 95/25 | 65/50 | 60% fair | moderate | | | | | | | | | x | Sweep form trunk. | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 85 | Standard | | x | | 12.5 | 6.9 | | | | | 19.4 | | coast redwood | Sequoia sempervirens | 55/18 | 60/50 | 20% Very Poor as of 2/26/21 due to 2020 illegal pruning. | poor to mod | | | | | | | 1 | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020, EXPECT TIRE DECLINE OVER TIME. TREE IS SIGNIFICATITY DECLINIOS IN THE OCTOBER, 2020 NEIGHBOR PRUNING. |
| 85 | Standard | | x | | 11.8 | 7.8 | | | | | 19.6 | | coast redwood | Sequoia sempervirens | 35/18 | 15/15 | 10% Very Poor as of 2/26/2021 dut to illegal pruning in 2020. | very poor | | | | | | | 2 | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TIREE DECLINE OVER TIME. TREE IS SOMEWHEATH TO BECLINE ON OVERALL CONDITIONS OF 2 2021 DUE TO THE OCTOBER, 2020 NEIGHBOR PRUNING. |
| 85 | Standard | x | x | | 18.5 | | | | | | 18.5 | | coast redwood | Sequala sempervirens | 70/18 | 40/35 | 5% (basically dead) as of 2/26/21 due to 2020 illegal pruning. | poor | | | | | | | 30 | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. TREE IS SIGNIFICANTLY DECLINING IN OVERALL CONDITION AS OF 22021 DUE TO THE OCTOBER, 2020 NEIGHBOR PRUNING. 83/1/2022 tree is in 10% overall condition. Removal approved per planning dept letter dated 10/18/2022 |
| 85 | Standard | x | x | | 15.1 | | | | | | 15.1 | | coast redwood | Sequola sempervirens | 70/18 | 55/50 | 20% Very Poor, as of 2/26/21, due to illegal pruning. | poor to mod | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT THEE DECLINE OVER OVER LOCK ONLY THEE DECLINE OF THE OCTOBER, 2020 NEIGHBOR PRUNING. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinario Ordinario III of Cuperino II | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and M. Wolfe Rd Were Updated in Fail, 2023. |
|------------|-----------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|---------------|-------------------------------------|-----------------------------------|---|---|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---|--|
| 856 | Standard | х | х | | 10.1 | | | | | | 10.1 | | coast redwood | Sequoia sempervirens | 45/9 | 40/35 | Dead (0% rating) as of 2/26/21, due to illegal pruning. | poor | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020, EXPECT TREE DECLINE OVER TIME. TREE IS SIGNIFICANTLY DECLINION IN OVERALL CONDITION AS 09 27021 DUE TO THE OCTOBER, 2020 NEIGHBOR PRUNING. Tree is 05 (ficially as of 851/2022. Tree removed by SHPCO in Sept 2022. |
| 857 | Standard | | | | 21.1 | | | | | | 21.1 | | coast redwood | Sequola sempervirens | 85/25 | 55/50 | 50% fair | poor to mod | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 858 | Standard | | | | 19.5 | | | | | | 19.5 | | coast redwood | Sequola sempervirens | 85/20 | 60/50 | 55% fair | moderate | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 859 | Standard | | | | 9.8 | | | | | | 9.8 | | coast redwood | Sequola sempervirens | 50/10 | 40/35 | 38% poor | poor | | | | | | | | | x | Supressed in shade | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 860 | Standard | | | | 22.2 | | | | | | 22.2 | | coast redwood | Sequola sempervirens | 85/20 | 60/60 | 60% fair | moderate | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 861 | Standard | | | | 25.0 | | | | | | 25.0 | | coast redwood | Sequoia sempervirens | 90/30 | 60/60 | 60% fair | moderate | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 862 | Standard | | | | 20.6 | | | | | | 20.6 | | coast redwood | Sequoia sempervirens | 80/25 | 60/60 | 60% fair | moderate | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 863 | Standard | | | | 31.5 | | | | | | 31.5 | | coast redwood | Sequoia sempervirens | 90/20 | 75/75 | 75% good | good | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 864 | Standard | | | | 23.8 | | | | | | 23.8 | | coast redwood | Sequoia sempervirens | 95/15 | 70/65 | 68% fair | moderate | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 865 | Standard | | | | 24.0 | | | | | | 24.0 | | coast redwood | Sequoia sempervirens | 90/15 | 60/40 | 47% poor | moderate | w | | | | | | | | x | S-trunk form. Abnormal trunk cross section that is cankered. | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 866 | Standard | | | | 31.0 | 13.3 | | | | | 44.3 | | coast redwood | Sequoia sempervirens | 95/28 | 60/50 | 55% fair | moderate | w | | | | | | 3 | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 867 | Standard | | x | | 6.5 | | | | | | 6.5 | | coast redwood | Sequoia sempervirens | 30/6 | 65/45 | 55% fair | moderate | | | | | | | | | x | Supressed in shade | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 868 | Standard | | | | 16.3 | | | | | | 16.3 | | coast redwood | Sequoia sempervirens | 50/18 | 70/70 | 70% good | moderate | | | | | | | | | х | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |

| Tree Tag # | Tree Type To be Removed Per | Current Site Plan Removed by highway | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|-----------------------------|--------------------------------------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|----------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|--|
| 869 | Standard | | | | 16.0 | | | | | | 16.0 | | coast redwood | Sequoia sempervirens | 75/15 | 70/60 | 68% fair | moderate | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 870 | Standard | | | | 27.6 | | | | | | 27.6 | | coast redwood | Sequoia sempervirens | 85/20 | 75/75 | 75% good | good | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 871 | Standard | x | | | 25.8 | | | | | | 25.8 | | coast redwood | Sequoia sempervirens | 95/25 | 75/75 | 75% good | good | | | | | | | | | x | | NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. |
| 872 | Standard | | | | 23.7 | 15.6 | | | | | 39.3 | | coast redwood | Sequoia sempervirens | 50/20 | 65/55 | 60% fair | moderate | E | | | | | | 2 | | | | |
| 873 | Standard | | x | | 13.9 | | | | | | 13.9 | | coast redwood | Sequoia sempervirens | 65/12 | 25/25 | 25% very poor | poor | | | | | | | | | | | |
| 874 | Standard | | | | 10.5 | | | | | | 10.5 | | coast redwood | Sequoia sempervirens | 30/9 | 35/30 | 30% poor | poor | | | | | | | | | | | |
| 875 | Standard | | | | 14.1 | | | | | | 14.1 | | coast redwood | Sequoia sempervirens | 45/10 | 40/40 | 40% poor | poor | | | | | | | | | | | |
| 1106 | 10045 | x | | | 8.0 | | | | | | 8.0 | | southern magnolia | Magnolia grandiflora | 20/16 | 50/50 | 50% fair | poor to mod | | | | | | | | | x | Roots damaged on grade from mowing activities. | Removed as of 9/2023. The City of Cupertino removed these trees for unknown reason(s) unrelated to The Rise site work. |
| 1107 | Street | x | | | 6.8 | | | | | | 6.8 | | southern magnolia | Magnolia grandiflora | 20/16 | 50/50 | 50% fair | poor to mod | | | | | | | | | x | Roots damaged on grade from mowing activities. | Removed as of 9/2023. The City of Cupertino removed these trees for unknown reason(s) unrelated to The Rise site work. |
| 1108 | Street | x | | | 9.0 | | | | | | 9.0 | | southern magnolia | Magnolia grandiflora | 23/20 | 55/55 | 55% fair | poor to mod | | | | | | | | | x | Roots damaged on grade from mowing activities. | Removed as of 9/2023. The City of Cupertino removed these trees for unknown reason(s) unrelated to The Rise site work. |
| 1109 | Street | x | | | 41.8 | | | | | | 41.8 | | Shamel ash | Fraxinus uhdei | 65/60 | 80/60 | 73% good | good | | E | | | | | | | x | Roots damaged from recent curb replacement activities. | |
| 1110 | Street | x | | | 10.5 | | | | | | 10.5 | | Shamel ash | Fraxinus uhdei | 35/20 | 30/30 | 30% poor | poor | w | | | x | gr | | 6 | | x | Roots damaged from recent curb replacement activities. | |
| 1111 | Street | x | | | 14.7 | | | | | | 14.7 | | Shamel ash | Fraxinus uhdei | 40/20 | 30/30 | 30% poor | poor | E | | | x | gr | | 10 | | x | Roots damaged from recent curb replacement activities. | |
| 1112 | Street | x | | | 26.6 | | | | | | 26.6 | | Shamel ash | Fraxinus uhdei | 65/35 | 60/60 | 60% fair | moderate | sw | | | | gr | | | | x | Roots damaged from recent curb replacement activities. | |
| 1113 | Street | x | | | 33.5 | | | | | | 33.5 | | Shamel ash | Fraxinus uhdei | 70/70 | 65/55 | 60% fair | moderate | | | 35 | | gr | | | | x | High risk situation: Split "hanger" limb noted at 35 feet elevation on north side of canopy needs to be | |
| 1114 | Street | X R | | | 19.2 | | | | | | 19.2 | | Shamel ash | Fraxinus uhdei | 35/35 | 30/30 | 30% Poor | poor | s | s | | x | | | | | x | | |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project Author Recommends Removal Due to Verv | Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Worle Rd Were Updated in Fall, 2023. |
|-----------|-------------|--|---|-----------------------------------|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|-------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|--|---|
| 1115 | Street | X R | aird | nitor the ling root uation) | | 22.9 | | | | | | 22.9 | | Shamel ash | Fraxinus uhdei | 35/35 | 35/35 | 35% Poor | poor | E | E | | | serious girdling root | | | | х | Roots damaged on grade. Note severe girdling root situation. | |
| 1116 | Street | X R | 1 | | | 24.2 | | | | | | 24.2 | | Shamel ash | Fraxinus uhdei | 40/40 | 25/35 | 28% Poor | poor | | | | x | gr | | | | x | Roots damaged on grade from mowing activities. | |
| 1117 | Street | X R | t | | | 24.7 | | | | | | 24.7 | | Shamel ash | Fraxinus uhdei | 45/40 | 15/15 | 15% Very Poor | very poor | | E | | | | throughou t canopy | | | x | Roots damaged on grade from mowing activities. | |
| 1118 | Street | X R | 1 | | | 23.0 | | | | | | 23.0 | | Shamel ash | Fraxinus uhdei | 55/40 | 25/30 | 28% Poor | poor | w | w | | x | | | | | x | Roots damaged on grade from mowing activities. | |
| 1119 | Street | X R | t | x | | 18.6 | | | | | | 18.6 | | Shamel ash | Fraxinus uhdei | 45/20 | 10/6 | 7% Very Poor (almost dead) | very poor | | | | х | gr | | | | | grade from mowing activities. Recommend remove tree due to very poor overall | |
| 1120 | Street | X R | t | | | 26.7 | | | | | | 26.7 | | Shamel ash | Fraxinus uhdei | 50/40 | 40/35 | 37% Poor | poor | N | E | | x | | | | | x | Roots damaged on grade from mowing activities. | |
| 1121 | Street | X R | 1 | | | 19.7 | | | | | | 19.7 | | Shamel ash | Fraxinus uhdei | 50/35 | 30/20 | 25% Poor | poor | w | w | | x | | | | | x | Roots damaged on grade from mowing activities. | |
| 1122 | Street | X R | t | | | 21.4 | | | | | | 21.4 | | Shamel ash | Fraxinus uhdei | 60/35 | 40/40 | 40% poor | poor | w | | | x | | 0 to 2 | | | x | Roots damaged on grade from mowing activities. Vehicle collision caused damage to trunk between zero and 2 feet elevation. | Extensive decay noted throughout the north side of root crown and lower trunk. Large % of canopy bare as of 2021. Overall condition roughly 20% as of 53/12022. Approved for removal by Mick Bench Jan 2022. Tree removed by SHPCO in Sept 2022. |
| 1123 | Street | X R | t . | | | 18.5 | | | | | | 18.5 | | Shamel ash | Fraxinus uhdei | 55/30 | 20/20 | 20% Very Poor | very poor | w | | | x | gr | | | | x | Roots damaged on grade from mowing activities. Root plate upper surfaces are exposed. | |
| 1124 | Street | X R | t | | | 15.5 | | | | | | 15.5 | | Shamel ash | Fraxinus uhdei | 30/18 | 20/10 | 15% Very Poor | very poor | w | | | х | gr | | | | x | Roots damaged on grade from mowing activities. Root plate upper surfaces are exposed. | |
| 1125 | Street | X R | t | | | 13.8 | | | | | | 13.8 | | Shamel ash | Fraxinus uhdei | 40/20 | 10/10 | 10% Very Poor | very poor | w | s | | x | serious girdling root | | | | х | Roots damaged on grade from mowing. Note severe girdling root situation. | |
| 1126 | Not In Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM LANDSCAPE. |
| 1127 | Street | х | | | | 2.7 | | | | | | 2.7 | | red maple | Acer rubrum | 16/9 | 80/85 | 80% Good | Good | | | | | | | | | | | Chlorotic foliage. Soil moisture deficit. |
| 1128 | Street | х | | | | 1.9 | | | | | | 1.9 | | red maple | Acer rubrum | 13/6 | 60/60 | 60% Fair | Mod | | | | | | | | | | | Chlorotic foliage. Soil moisture deficit. |
| 1129 | Street | x | | | | 2.0 | | | | | | 2.0 | | red maple | Acer rubrum | 13/6 | 55/55 | 55% Fair | Mod | | | | | | | | | | | Chlorotic foliage. Soil moisture deficit. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinano (10,0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & MOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|--------------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|---|-----------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 1136 | Street | x | | | 1.8 | | | | | | 1.8 | | red maple | Acer rubrum | 10/5 | 35/35 | 35% Poor | Poor | | | | | | | | | | | Chlorotic foliage. Soil moisture deficit. |
| 1131 | Street | x | | | 1.9 | | | | | | 1.9 | | red maple | Acer rubrum | 11/5 | 35/35 | 35% Poor | Poor | | | | | | | | | | | Chlorotic foliage. Soil moisture deficit. |
| 1132 | Street | x | | | 1.4 | | | | | | 1.4 | | red maple | Acer rubrum | 9/5 | 35/35 | 35% Poor | Poor | | | | | | | | | | | Chlorotic foliage. Soil moisture deficit. |
| 1133 | Street | x | | | 1.9 | | | | | | 1.9 | | red maple | Acer rubrum | 13/6 | 37/45 | 39% Poor | Poor | | | | | | | | | | | Chlorotic follage. Soil moisture deficit. |
| 1134 | Development | х | | | 4.2 | | | | | | 4.2 | | Purple Robe locust | Robinia 'Purple Robe' | 20/12 | 85/65 | 70% Good | North | | | | | | 9 feet. | | | | | Removed as of Jan, 2020. |
| 1138 | Development | х | | | 4.5 | | | | | | 4.5 | | Purple Robe locust | Robinia 'Purple Robe' | 20/12 | 85/65 | 70% Good | North | | | | | | 0 to 2 feet. | | | | | Removed as of Jan, 2020. |
| 1136 | Development | х | | | 3.2 | | | | | | 3.2 | | Purple Robe locust | Robinia 'Purple Robe' | 25/12 | 70/70 | 70% Good | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 1137 | Development | х | | | 4.7 | | | | | | 4.7 | | Purple Robe locust | Robinia 'Purple Robe' | 20/13 | 70/50 | 60% Fair | Mod | | | | | | 1 to 4 feet. | | | | | Removed as of Jan, 2020. |
| 1138 | Develop ment | х | | | 3.6 | | | | | | 3.6 | | Purple Robe locust | Robinia 'Purple Robe' | 20/12 | 70/70 | 70% Good | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 1139 | Development | х | | | 3.7 | | | | | | 3.7 | | Purple Robe locust | Robinia 'Purple Robe' | 20/13 | 70/70 | 70% Good | Mod | West | | | | | | | | | | Removed as of Jan, 2020. |
| 1140 | Development | х | | | 4.3 | | | | | | 4.3 | | flowering pear | Pyrus calleryana | 15/10 | 40/60 | 45% Poor | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 1141 | Development | х | | | 4.4 | | | | | | 4.4 | | Purple Robe locust | Robinia 'Purple Robe' | 20/15 | 55/55 | 55% Fair | Poor to Mod | | North | | | | 0 to 5 feet. | | | | | Removed as of Jan, 2020. |
| 1142 | Development | x | | | 3.7 | | | | | | 3.7 | | Purple Robe locust | Robinia 'Purple Robe' | 24/14 | 85/70 | 78% Good | Mod | | | | | | | | | | | Removed as of Jan, 2020. |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2917 ONWARD. Condition Ratings for All Ash Specimers Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|--------------|--|---------|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|-----------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 114 | Development | x | | | | 5.4 | | | | | | 5.4 | | Purple Robe locust | Robinia 'Purple Robe' | 28/18 | 85/55 | 65% Fair | Mod to Good | | | | | | 0 to 6 feet | | | | | Removed as of Jan, 2020. |
| 114 | Development | x | | | | 3.8 | | | | | | 3.8 | | Purple Robe locust | Robinia 'Purple Robe' | 20/12 | 70/60 | 68% Fair | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 114 | Development | x | | | | 3.4 | | | | | | 3.4 | | Purple Robe locust | Robinia 'Purple Robe' | 20/12 | 70/55 | 61% Fair | Mod | | | | | | 0 to 8 feet | | | | | Removed as of Jan, 2020. |
| 114 | D evelopment | x | | | | 3.4 | | | | | | 3.4 | | Purple Robe locust | Robinia 'Purple Robe' | 18/13 | 78/57 | 64% Fair | Mod | | | | | | 0 to 5 feet | | | | | Removed as of Jan, 2020. |
| 114 | Development | x | | | | 4.1 | | | | | | 4.1 | | Purple Robe locust | Robinia 'Purple Robe' | 25/14 | 85/75 | 80% Good | Mod to Good | | | | | | | | | | | Removed as of Jan, 2020. |
| 114 | Development | x | | | | 4.2 | | | | | | 4.2 | | Purple Robe locust | Robinia 'Purple Robe' | 24/14 | 65/40 | 46% Poor | Mod | | | | | | 0 to 10 feet | | | | | Removed as of Jan, 2020. |
| 114 | Development | x | | | | 4.7 | | | | | | 4.7 | | Purple Robe locust | Robinia 'Purple Robe' | 24/13 | 70/57 | 63% Fair | Mod | | | | | | 0 to 6 feet | | | | | Removed as of Jan, 2020. |
| 115 | Development | x | | | | 5.6 | | | | | | 5.6 | | Purple Robe locust | Robinia 'Purple Robe' | 29/18 | 70/59 | 66% Fair | Good | | | | | | 0 to 7 feet | | | | | Removed as of Jan, 2020. |
| 115 | D evelopment | x | | | | 5.0 | | | | | | 5.0 | | Purple Robe locust | Robinia 'Purple Robe' | 27/18 | 85/60 | 72% Good | Mod to Good | | | | | | | | | | | Removed as of Jan, 2020. |
| 115: | Development | x | | | | 3.6 | | | | | | 3.6 | | Purple Robe locust | Robinia 'Purple Robe' | 22/10 | 55/45 | 48% Poor | Poor to Mod | West | West | | | | 0 to 4 feet | | | | | Removed as of Jan, 2020. |
| 115 | Development | x | | | | 3.8 | | | | | | 3.8 | | Purple Robe locust | Robinia 'Purple Robe' | 20/11 | 60/35 | 48% Poor | Poor to Mod | West | West | | | | 0 to 3 feet | At 11 feet. | | | | Removed as of Jan, 2020. |
| 115 | Development | x | | | | 2.7 | | | | | | 2.7 | | flowering pear | Pyrus calleryana | 12/7 | 50/50 | 50% Fair | Mod | | West | | | | | | | | | Removed as of Jan, 2020. |
| 115 | Development | x | | | | 3.0 | | | | | | 3.0 | | flowering pear | Pyrus calleryana | 10/7 | 50/50 | 50% Fair | Mod | West | | | | | | | | | | Removed as of Jan, 2020. |
| 1150 | Development | x | | | | 3.6 | | | | | | 3.6 | | Purple Robe locust | Robinia 'Purple Robe' | 19/10 | 65/55 | 59% Fair | Poor to Mod | | | | | | Various elev. areas. | | | | | Removed as of Jan, 2020. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Spiltout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
|------------|---------------|--|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|-----------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 115 | Development | x | | | 2.9 | | | | | | 2.9 | | Purple Robe locust | Robinia 'Purple Robe' | 15/10 | 75/60 | 66% Fair | Mod | | West | | | | | | | | | Removed as of Jan, 2020. |
| 115 | Development | x | | | 4.1 | | | | | | 4.1 | | Purple Robe locust | Robinia 'Purple Robe' | 18/12 | 80/60 | 68% Fair | | | | At six feet and ten feet. | | | | | | | | Removed as of Jan, 2020. |
| 115 | Development | x | | | 5.1 | | | | | | 5.1 | | Purple Robe locust | Robinia 'Purple Robe' | 20/18 | 85/70 | 80% Good | Good | | | | | | | | | | | Removed as of Jan, 2020. |
| 116 | D evelopment | x | | | 3.6 | | | | | | 3.6 | | flowering pear | Pyrus calleryana | 14/8 | 25/25 | 25% Very Poor | | | | | | | | | | | | Removed as of Jan, 2020. |
| 116 | Development | x | | | 4.1 | | | | | | 4.1 | | flowering pear | Pyrus calleryana | 12/9 | 50/50 | 50% Fair | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 116 | Development | x | | | 4.1 | | | | | | 4.1 | | flowering pear | Pyrus calleryana | 13/9 | 40/40 | 40% Poor | Poor | | | | | | | | | | | Removed as of Jan, 2020. |
| 116 | Development | x | | | 3.8 | | | | | | 3.8 | | flowering pear | Pyrus calleryana | 13/8 | 80/80 | 80% Good | Good | | | | | | | | | | | Removed as of Jan, 2020. |
| 116- | Development | х | | | 5.1 | | | | | | 5.1 | | Purple robe locust | Robinia 'Purple Robe' | 30/22 | 75/55 | 63% Fair | Mod | | | | | | 0 to 6 feet. | | | | | Removed as of Jan, 2020. |
| 116 | Development | x | | | 5.4 | | | | | | 5.4 | | Purple robe locust | Robinia 'Purple Robe' | 30/20 | 80/68 | 75% Good | Good | | | | | | 1 to 5 feet. | | | | | Removed as of Jan, 2020. |
| 116 | Development | x | | | 5.3 | | | | | | 5.3 | | Purple robe locust | Robinia 'Purple Robe' | 30/20 | 80/60 | 64% Fair | Good | | | | | | 0 to 7 feet. | | | | | Removed as of Jan, 2020. |
| 116 | Development . | х | | | 2.8 | | | | | | 2.8 | | flowering pear | Pyrus calleryana | 9/6 | 40/40 | 40% Poor | Poor | | | | | | | | | | | Removed as of Jan, 2020. |
| 116 | Development | x | | | 5.1 | | | | | | 5.1 | | flowering pear | Pyrus calleryana | 15/12 | 60/60 | 60% Fair | Good | | | | | | | | | | | Removed as of Jan, 2020. |
| 116 | Development | x | | | 4.7 | | | | | | 4.7 | | Purple robe locust | Robinia 'Purple Robe' | 25/18 | 85/65 | 74% Good | Good | | | | | | | | | | | Removed as of Jan, 2020. |
| 1170 | Development | x | | | 4.7 | | | | | | 4.7 | | Purple robe locust | Robinia 'Purple Robe' | 23/15 | 80/65 | 70% Good | Mod | | | | | | | | | | | Removed as of Jan, 2020. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway | Project Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Burled Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
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| 117 | Development | x | | | 5.2 | | | | | | 5.2 | | Purple robe locust | Robinia 'Purple Robe' | 27/16 | 85/60 | 70% Good | Good | | | | | | | At 15 feet. | | | | Removed as of Jan, 2020. |
| 117 | Development | x | | | 5.0 | | | | | | 5.0 | | Purple robe locust | Robinia 'Purple Robe' | 22/16 | 75/60 | 69% Fair | Good | North west | North west | | | | 5 to 6 feet. | | | | | Removed as of Jan, 2020. |
| 117 | Development | x | | | 3.2 | | | | | | 3.2 | | flowering pear | Pyrus calleryana | 9/6 | 60/60 | 60% Fair | Good | | | | | | | | | | | Removed as of Jan, 2020. |
| 117 | Development | x | | | 2.6 | | | | | | 2.6 | | flowering pear | Pyrus calleryana | 9/5 | 30/30 | 30% Poor | Poor | | | | | | | | | | | Removed as of Jan, 2020. |
| 117 | Development | x | | | 6.3 | | | | | | 6.3 | | flowering pear | Pyrus calleryana | 23/18 | 80/75 | 75% Good | Good | | | | | | | | | | | Removed as of Jan, 2020. |
| 117 | Development | х | | | 4.3 | | | | | | 4.3 | | flowering pear | Pyrus calleryana | 17/12 | 65/65 | 65% Fair | Good | | | | | | | | | | | Removed as of Jan, 2020. |
| 117 | Development | х | | | 6.3 | | | | | | 6.3 | | Purple Robe locust | Robinia 'Purple Robe' | 35/23 | 50/30 | 30% Poor | Good | | | | | | 0 to 15 feet | | | | | Removed as of Jan, 2020. |
| 117 | Development | х | | | 5.1 | | | | | | 5.1 | | Purple Robe locust | Robinia 'Purple Robe' | 33/23 | 50/30 | 30% Poor | Mod | | | | | | 0 to 8 feet | | | | | Removed as of Jan, 2020. |
| 117 | D evelopment | х | | | 3.0 | | | | | | 3.0 | | flowering pear | Pyrus calleryana | 12/7 | 40/40 | 40% Poor | Poor to Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 118 | Development | х | | | 4.7 | | | | | | 4.7 | | Purple Robe locust | Robinia 'Purple Robe' | 24/15 | 80/60 | 70% Good | Mod | North west | | | | | | | | | | Removed as of Jan, 2020. |
| 118 | Development | x | | | 4.0 | | | | | | 4.0 | | Purple Robe locust | Robinia 'Purple Robe' | 20/14 | 70/70 | 70% Good | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 118 | Development | х | | | 5.1 | | | | | | 5.1 | | Purple Robe locust | Robinia 'Purple Robe' | 23/16 | 85/60 | 70% Good | Good | | | | | | | At 5 feet. | | | | Removed as of Jan, 2020. |
| 118 | Development | х | | | 4.8 | | | | | | 4.8 | | Purple Robe locust | Robinia 'Purple Robe' | 22/13 | 80/60 | 67% Fair | Good | | | | | | 3 to 5 feet | | | | | Removed as of Jan, 2020. |
| 118 | Development | x | | | 3.8 | | | | | | 3.8 | | flowering pear | Pyrus calleryana | 14/9 | 50/50 | 50% Fair | Mod | | | | | | | | | | | Removed as of Jan, 2020. |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Fallure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjus ted Trunk Dlameter Inches @54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Spiltout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|-------------------------|--|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|-----------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 118 | Development Development | х | | | 2.3 | | | | | | 2.3 | | flowering pear | Pyrus calleryana | 9/6 | 55/55 | 55% Fair | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 118 | Development | x | | | 2.7 | | | | | | 2.7 | | flowering pear | Pyrus calleryana | 9/7 | 55/55 | 55% Fair | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 118 | Development | x | | | 3.3 | | | | | | 3.3 | | flowering pear | Pyrus calleryana | 9/8 | 35/35 | 35% Poor | Mod | | | | | | 0 to 4 feet | | | | | Removed as of Jan, 2020. |
| 1186 | Development | x | | | 5.5 | | | | | | 5.5 | | Purple Robe locust | Robinia 'Purple Robe' | 28/18 | 75/30 | 35% Poor | Good | | | | | | 0 to 5 feet | | | | | Removed as of Jan, 2020. |
| 1189 | Development | x | | | 5.8 | | | | | | 5.8 | | Purple Robe locust | Robinia 'Purple Robe' | 35/22 | 65/25 | 30% Poor | Good | | | | | | 0 to 8 feet | | | | | Removed as of Jan, 2020. |
| 1190 | Development | x | | | 4.4 | | | | | | 4.4 | | Purple Robe locust | Robinia 'Purple Robe' | 30/18 | 50/30 | 37% Poor | Mod to Good | | | | | | At various elev. | | | | | Removed as of Jan, 2020. |
| 119 | Development | x | | | 6.8 | | | | | | 6.8 | | Purple Robe locust | Robinia 'Purple Robe' | 35/23 | 65/20 | 25% Very Poor | Good | | | | | | 0 to 10 feet | | | | | Removed as of Jan, 2020. |
| 119. | Development | x | | | 3.3 | | | | | | 3.3 | | flowering pear | Pyrus calleryana | 11/8 | 30/30 | 30% Poor | Poor | | | | | | | | | | | Removed as of Jan, 2020. |
| 119 | D evelopment | x | | | 2.4 | | | | | | 2.4 | | flowering pear | Pyrus calleryana | 10/7 | 55/55 | 55% Fair | Poor to Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 119 | Development | x | | | 5.3 | | | | | | 5.3 | | Purple Robe locust | Robinia 'Purple Robe' | 30/48 | 50/40 | 45% Poor | Poor to Mod | | | | | | 0 to 9 feet. | | | | | Removed as of Jan, 2020. |
| 119 | Development | x | | | 4.5 | | | | | | 4.5 | | Purple Robe locust | Robinia 'Purple Robe' | 25/15 | 60/50 | 50% Fair | Mod | | | | | | 3 to 4 feet. | | | | | Removed as of Jan, 2020. |
| 1190 | Development | x | | | 5.3 | | | | | | 5.3 | | Purple Robe locust | Robinia 'Purple Robe' | 25/18 | 60/35 | 40% Poor | Mod | | | | | | 0 to 10 feet. | | | | | Removed as of Jan, 2020. |
| 119 | Development | x | | | 5.0 | | | | | | 5.0 | | Purple Robe locust | Robinia 'Purple Robe' | 23/18 | 55/30 | 37% Poor | Mod | | | | | | 0 to 6 feet. | | | | | Removed as of Jan, 2020. |
| 119 | D evelopment | x | | | 4.9 | | | | | | 4.9 | | Purple Robe locust | Robinia 'Purple Robe' | 22/18 | 60/35 | 45% Poor | Mod | | | | | | 0 to 5 feet. | | | | | Removed as of Jan, 2020. |

| Tree Tag# | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10,0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstens with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Greek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
|-----------|--------------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|-----------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 119 | Development | x | | | 3.6 | | | | | | 3.6 | | Purple Robe locust | Robinia 'Purple Robe' | 20/16 | 60/60 | | Poor to Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 120 | Development | x | | | 4.3 | | | | | | 4.3 | | Purple Robe locust | Robinia 'Purple Robe' | 27/18 | 60/35 | 40% Poor | Mod | | | | | | 0 to 6 feet. | | | | | Removed as of Jan, 2020. |
| 120 | Development | х | | | 3.8 | | | | | | 3.8 | | Purple Robe locust | Robinia 'Purple Robe' | 22/18 | 60/60 | 60% Fair | Poor to Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 120 | D evelopment | х | | | 4.3 | | | | | | 4.3 | | Purple Robe locust | Robinia 'Purple Robe' | 25/18 | 70/60 | 66% Fair | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 120 | Development | х | | | 5.0 | | | | | | 5.0 | | Purple Robe locust | Robinia 'Purple Robe' | 26/22 | 75/35 | 45% Poor | Good | | | | | | 0 to 5 feet. | | | | | Removed as of Jan, 2020. |
| 120 | Development | x | | | 4.6 | | | | | | 4.6 | | Purple Robe locust | Robinia 'Purple Robe' | 22/16 | 55/40 | 40% Poor | Poor to Mod | | | | | | 0 to 5 feet. | | | | | Removed as of Jan, 2020. |
| 120 | Development | x | | | 4.0 | | | | | | 4.0 | | Purple Robe locust | Robinia 'Purple Robe' | 24/20 | 55/30 | 36% Poor | Poor | | | | | | 0 to 5 feet. | | | | | Removed as of Jan, 2020. |
| 120 | Development | x | | | 5.2 | | | | | | 5.2 | | Purple Robe locust | Robinia 'Purple Robe' | 33/23 | 85/60 | 68% Fair | Good | | | | | | 0 to 9 feet. | | | | | Removed as of Jan, 2020. |
| 120 | Development | x | | | 4.3 | | | | | | 4.3 | | Purple Robe locust | Robinia 'Purple Robe' | 25/20 | 85/68 | 75% Good | Good | | | | | | | | | | | Removed as of Jan, 2020. |
| 120 | Development | х | | | 3.5 | | | | | | 3.5 | | Purple Robe locust | Robinia 'Purple Robe' | 25/16 | 85/70 | 77% Good | Good | | | | | | | | | | | Removed as of Jan, 2020. |
| 120 | Development | х | | | 4.5 | | | | | | 4.5 | | flowering pear | Pyrus calleryana | 15/10 | 45/45 | 45% Poor | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 121 | Development | x | | | 3.0 | | | | | | 3.0 | | flowering pear | Pyrus calleryana | 10/6 | 35/35 | 35% Poor | Poor | | | | | | | | | | | Removed as of Jan, 2020. |
| 121 | Development | х | | | 2.9 | | | | | | 2.9 | | flowering pear | Pyrus calleryana | 12/8 | 40/40 | 40% Poor | Poor | | | | | | | | | | | Removed as of Jan, 2020. |
| 121: | D evelopment | x | | | 4.2 | | | | | | 4.2 | | Purple Robe locust | Robinia 'Purple Robe' | 20/13 | 65/45 | 49% Poor | Mod to Good | | | | | | 0 to 3 feet. | | | | | Removed as of Jan, 2020. |

| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinatos (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Heath & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONNARD. Condition Ratings for All Ash Specimens Along Stevens Creek Bird and N. Worle Rd Were Updated in Fall, 2023. |
|------------|-------------|---|--|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|-----------------------|-------------------------------------|-----------------------------------|--|--------------------------------------|--|--------------------------------------|---------------------------------|--|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 1213 | Development | х | | | 4.2 | | | | | | 4.2 | | Purple Robe locust | Robinia 'Purple Robe' | 20/15 | 50/30 | 37% Poor | Mod | | | | | | 0 to 4 feet. | | | | | Removed as of Jan, 2020. |
| 1214 | Development | х | | | 4.2 | | | | | | 4.2 | | Purple Robe locust | Robinia 'Purple Robe' | 20/17 | 70/50 | 64% Fair | Mod to Good | | | | | | 3 to 4 feet. | | | | | Removed as of Jan, 2020. |
| 1218 | Standard | х | | | 4.3 | | | | | | 4.3 | | flowering pear | Pyrus calleryana | 20/12 | 30/30 | 30% Poor | Poor | | | | | | | | | | | Removed as of Jan, 2020. |
| 1216 | Standard | х | | | 3.2 | | | | | | 3.2 | | flowering pear | Pyrus calleryana | 15/7 | 70/65 | 68% Fair | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 1217 | Standard | х | | | 3.2 | | | | | | 3.2 | | flowering pear | Pyrus calleryana | 17/7 | 60/55 | 56% Fair | Poor to Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 1218 | Standard | х | | | 2.9 | | | | | | 2.9 | | flowering pear | Pyrus calleryana | 17/7 | 70/65 | 68% Fair | Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 1219 | Standard | x | | | 3.1 | | | | | | 3.1 | | flowering pear | Pyrus calleryana | 16/8 | 50/50 | 50% Fair | Poor to Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 1220 | Standard | x | | | 3.0 | | | | | | 3.0 | | flowering pear | Pyrus calleryana | 17/8 | 50/50 | 50% Fair | Poor to Mod | | | | | | | | | | | Removed as of Jan, 2020. |
| 1221 | Not in Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | (This plot point is a shoot arising from the subgrade lignotuber of tree tag #590, and is not an actual "tree") |
| 1222 | Standard | x | | | 2.9 | | | | | | 2.9 | | flowering pear | Pyrus calleryana | 21/8 | 30/30 | 30% Poor | Poor | | | | | | | | | | | Fireblight infection. |
| 1223 | Standard | x | | | 7.0 | | | | | | 7.0 | | southern magnolia | Magnolia grandiflora | 16/16 | 40/30 | 35% Poor | Poor | | | | | | | | | x | | At parking lot near Hyalt construction project. Tree tagged by WLCA with racetrack shaped tag "1223". |
| 1224 | Not In Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM FIELD. |
| 1228 | Not In Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | TREE REMOVED FROM FIELD. |
| 1226 | Not In Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | (Tree already in this database as double-stem tree tag #504.). |

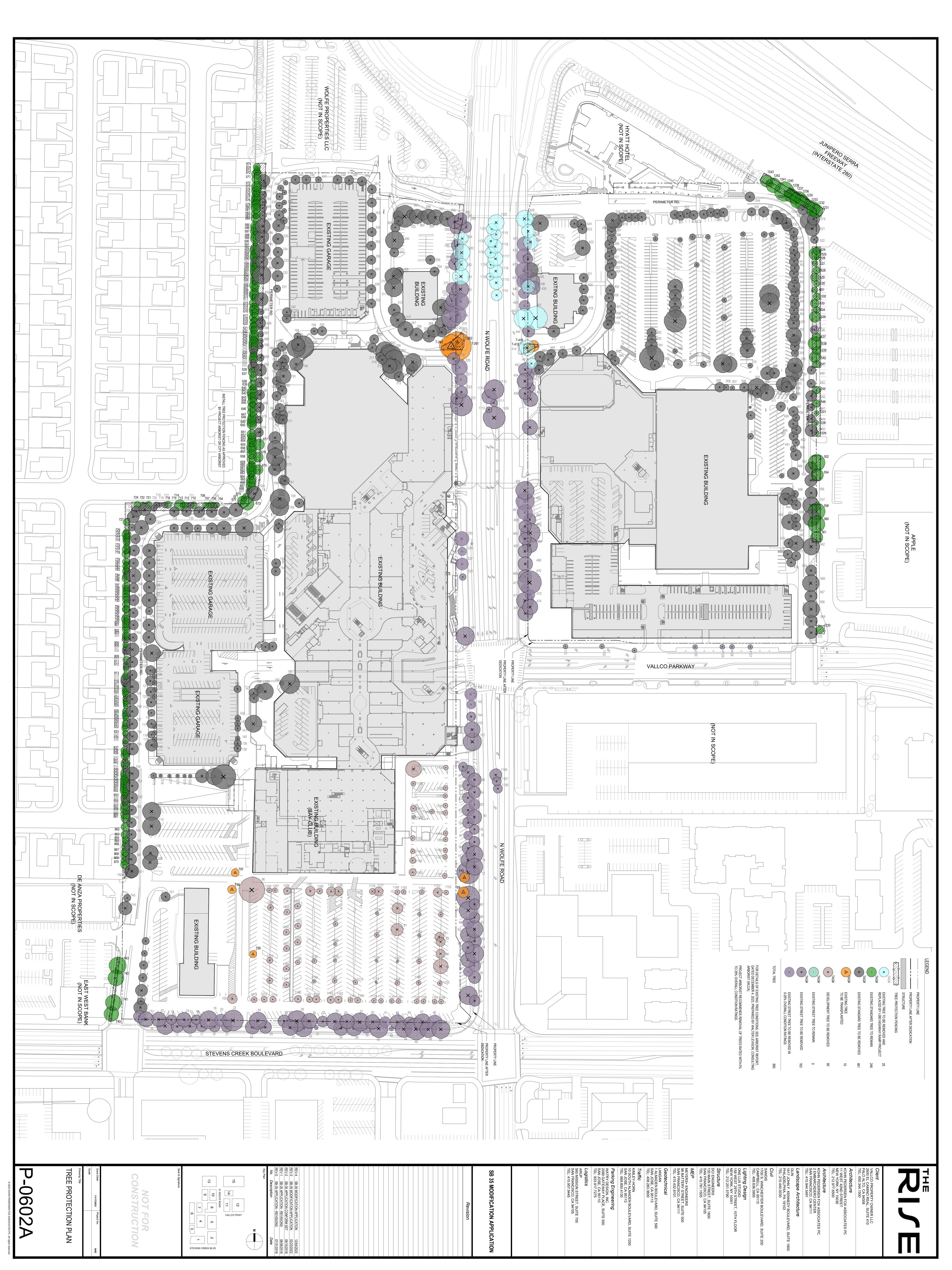
| Tree Tag # Tree Type To be Removed Per Current Site Plan | Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5) | 'Protected Tree" per City of Cuperino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Note d) Historical Stem | Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Crown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2917 ONWARD. Condition Ratings for All Ash Specimens Along Stevens Creet Bird and N. Wolfe Rd Were Updated in Fall, 2023. |
|--|-------------------------------|--|--|---------------|---------------|---------------|---------------|---------------|---|---|-------------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|--|--------------------------------------|---|---------------------------------------|--------------------------------------|--|--------------------------------|---|---|---|---------------------------------------|--|
| 1227 Standard | | | 1.7 | | | | | | 1.7 | | Chinese elm cultivar | Ulmus parvifolia Cult. | 14/8 | 90/80 | 85% Good | Good | | | | | | | | | | | |
| 1228 Standard | | | 1.7 | | | | | | 1.7 | | Chinese elm cultivar | Ulmus parvifolia Cult. | 15/8 | 90/80 | 85% Good | Good | | | | | | | | | | | |
| 1229 Standard | | | 1.8 | | | | | | 1.8 | | Chinese elm cultivar | Ulmus parvifolia Cult. | 15/8 | 90/80 | 85% Good | Good | | | | | | | | | | | |
| 1230 pepus | | | 4.4 | | | | | | 4.4 | | Chinese elm cultivar | Ulmus parvifolia Cult. | 18/18 | 90/80 | 84% Good | Good | | | | | | | | | | | |
| 1231 pap us 55 | | | Est. 22 | | | | | | 22.0 | | coast redwood | Sequoia sempervirens | 85/18 | 50/50 | 50% Fair | Poor to Mod | | | | | | | | | | | |
| 1232 page 200 | | | Est. 24 | | | | | | 24.0 | | coast redwood | Sequoia sempervirens | 50/40 | 35/35 | 35% Poor | Poor | | | | | | | | | | | |
| 1233 grandard | | | Est. 19 | | | | | | 19.0 | | coast redwood | Sequoia sempervirens | 75/15 | 40/40 | 40% Poor | Poor | | | | | | | | | | | |
| 1234 Epu x | | | Est. 15 | | | | | | 15.0 | | coast redwood | Sequola sempervirens | 45/13 | 65/65 | 65% Fair | Mod | | | | | | | | | | | No access to trunk base. Tree was not tagged by WLCA. This tree was "rough plotted" by WLCA, and added to the Sandis tree map sheets. |
| 1235 page 1235 | | | Est. 22 | | | | | | 22.0 | | coast redwood | Sequola sempervirens | 75/13 | 55/55 | 55% Fair | Poor to Mod | | | | | | | | | | | Dense growth around base. |
| 1236 page 1236 | | | Est. 26 | | | | | | 26.0 | | coast redwood | Sequoia sempervirens | 60/16 | 50/45 | 48% Poor | Poor to Mod | | | | | | | | | | | Two wide-forked codominant mainstems arise at 16 feet above grade. Dense growth around base. |
| 1237 Standard | | | Est. 20 | | | | | | 20.0 | | coast redwood | Sequoia sempervirens | 65/16 | 40/40 | 40% Poor | Poor | | | | | | | | | | | Dense growth around base. |
| Standard Standard | | | Est. 22 | | | | | | 22.0 | | coast redwood | Sequoia sempervirens | 68/16 | 50/50 | 50% Fair | Poor to Mod | | | | | | | | | | | Dense growth around base. |
| 1239 Stan dard | | | Est. 15 | | | | | | 15.0 | | coast redwood | Sequoia sempervirens | 55/10 | 50/37 | 44% Poor | Poor | | East | | | | | | | | | Dense growth around base. |
| 1240 purguest | | | Est. 32 | | | | | | 32.0 | | coast redwood | Sequoia sempervirens | 70/25 | 60/60 | 60% Fair | Poor to Mod | | | | | | | | | | | Dense growth around base. |

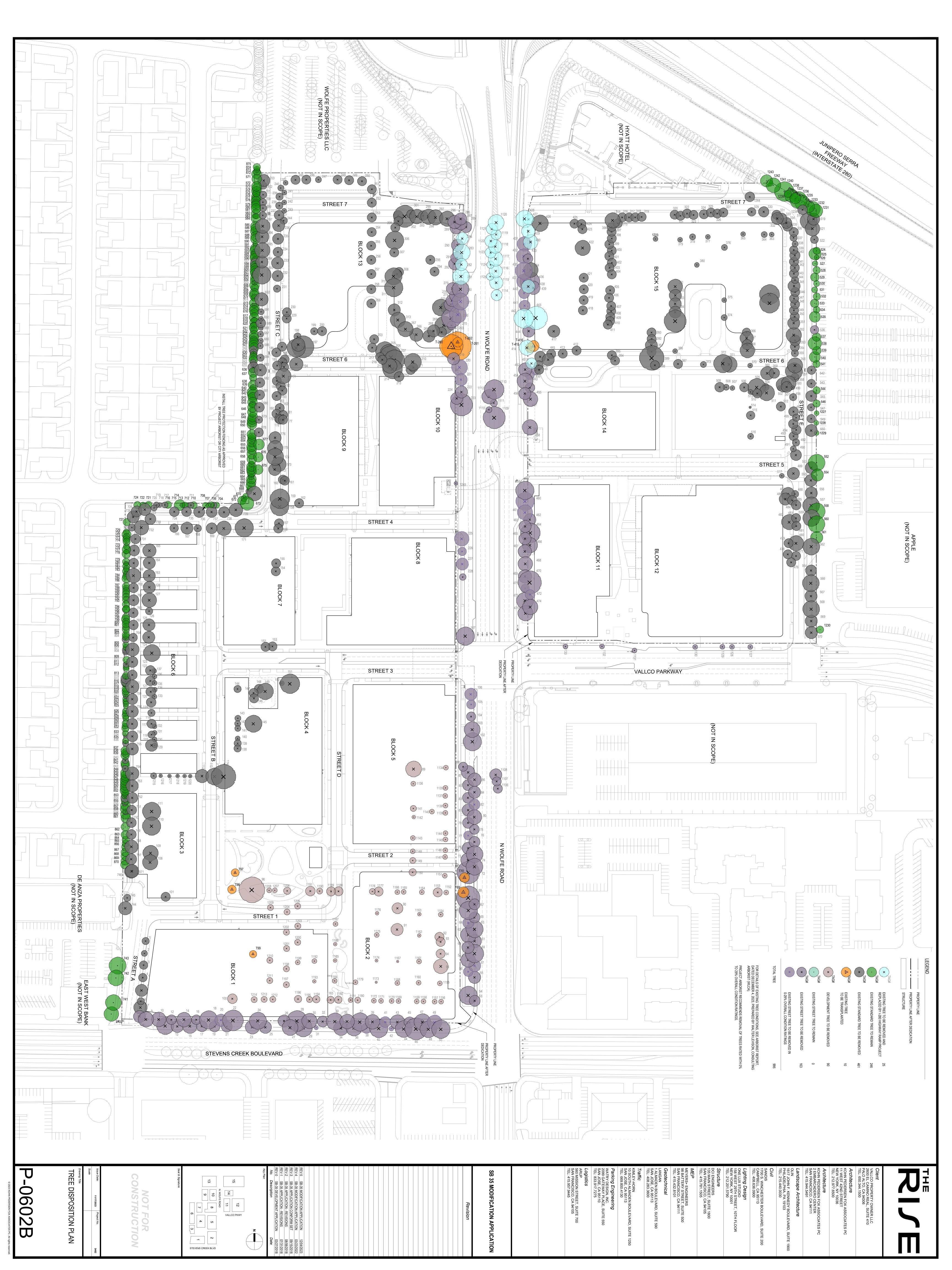
| Tree Tag # | Tree Type | To be Removed Per Current Site Plan Removed by highway Project | Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure | Project Team Desires to Transplant | Trunk 1 (in.) | Trunk 2 (in.) | Trunk 3 (in.) | Trunk 4 (in.) | Trunk 5 (in.) | Trunk 6 (in.) | Adjusted Trunk Dlameter Inches @ 54" A.G. (1+2+3+4+5) | "Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species) | Common Name | Scientific Name (Genus, species) | Height and Canopy Spread (ft.) | Health & Structural Ratings (0-100% each) | Overall Condition Rating (0-100%) | Live Twig Density (Very Poor, Poor, Mod, Good, Exc.) | Lopsided Canopy (Direction Noted) | Trunk Lean (Direction Noted) | Historical Stem Splitout Evidence (Note Elevation) | Topped or Severely Pruned in Past | Buried Root Grown (BRC) or Girdling Roots (GR) | Stem Decay (Note Elevation) | Codominant Mainstems with Severe Bark Inclusion(s) (Note Height) | Root Extension Restricted in Planter | Soil Moisture Deficit ("Drought Stress") | WLCA Notes from Spring 2015 Survey | Updated Overall Condition Ratings & NOTES 2017 ONWARD, Condition Ratings for All Ash Specimens Along Stevens Creek Blvd and N. Wolfe Rd Were Updated in Fall, 2023. |
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| 124 | Standard | | | | Est. 22 | | | | | | 22.0 | | coast redwood | Sequoia sempervirens | 50/15 | 45/45 | 45% Poor | Poor | | | | | | | | | | | Dense growth around base. |
| 124 | Standard | | | | Est. 12 | | | | | | 12.0 | | coast redwood | Sequoia sempervirens | 50/12 | 60/50 | 55% Fair | Poor to Mod | | | | | | | | | | | Dense growth around base. |
| 124 | Standard | | | | Est. 24 | | | | | | 24.0 | | coast redwood | Sequoia sempervirens | 60/15 | 40/40 | 40% Poor | Poor | | | | | | | | | | | Dense growth around base. |
| 124 | 4 Pandard | x | | | 15.5 | | | | | | 15.5 | | coast redwood | Sequoia sempervirens | 35/12 | 0/0 | 0% DEAD | n/a | | | | | | | | | | | |
| 124 | Street | х | | | 6.0 | | | | | | 6.0 | | Yew pine | Podocarpus macrophylla | 10/6 | 40/40 | 40% Poor | Poor to Mod | | | | | | | | | | | Tree removed at the flyway bridge southwest corner on 1/24/2020. |

L Holgsto were determined using a Nikon Forsety Pro 550 hyposometr. Disneturs were determined using a floresty D-lag feet which coverts, actual circumference to averaged disneter in inches and tenths of Inches.

2. In the original 2015 assignments, Whitel Levidon tagged and surveyed not hyper 4.0 inches disneter and greater (at 14.2 the control of the standard of the second of

OLIN: Alt. Lot "West" rows are removed from this sheet









Sequoia sempervirens Coast Redwood¹

Edward F. Gilman and Dennis G. Watson²

INTRODUCTION

Sequoia sempervirens, the Coast Redwoods of California, are the tallest trees in the world (Fig. 1). They can vary greatly when grown from seed, but varieties are available now which have been vegetatively propagated and they retain true characteristics. Redwoods grow three to five feet per year and are remarkably pest-free. They live to be many hundreds of years old; some live to several thousand years. Bark is particularly beautiful, turning a bright orange on older trees. It may grow poorly in zones 9 and 10 in Florida.

GENERAL INFORMATION

Scientific name: Sequoia sempervirens

Pronunciation: see-KWOY-uh sem-per-VYE-renz

Common name(s): Coast Redwood

Family: *Taxodiaceae*

USDA hardiness zones: 7 through 10A (Fig. 2)

Origin: native to North America

Uses: screen; specimen; no proven urban tolerance **Availability:** grown in small quantities by a small

number of nurseries

DESCRIPTION

Height: 60 to 120 feet **Spread:** 25 to 35 feet

Crown uniformity: symmetrical canopy with a regular (or smooth) outline, and individuals have more

or less identical crown forms Crown shape: pyramidal Crown density: moderate

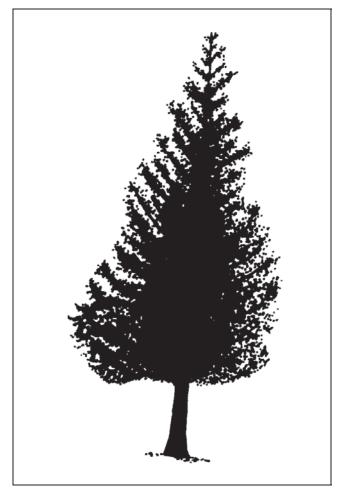


Figure 1. Mature Coast Redwood.

Growth rate: medium

Texture: fine

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Figure 2. Shaded area represents potential planting range.

Foliage

Leaf arrangement: alternate; spiral

Leaf type: simple Leaf margin: entire

Leaf shape: needle-like (filiform)

Leaf venation: none, or difficult to see; parallel **Leaf type and persistence:** evergreen; needle leaf

evergreen

Leaf blade length: less than 2 inches

Leaf color: green

Fall color: no fall color change **Fall characteristic:** not showy

Flower

Flower characteristics: inconspicuous and not

showy

Fruit

Fruit shape: oval; round Fruit length: .5 to 1 inch Fruit covering: dry or hard

Fruit color: brown

Fruit characteristics: does not attract wildlife; inconspicuous and not showy; no significant litter problem

Trunk and Branches

Trunk/bark/branches: droop as the tree grows, and will require pruning for vehicular or pedestrian clearance beneath the canopy; should be grown with a

single leader; very showy trunk; no thorns

Pruning requirement: needs little pruning to develop

a strong structure **Breakage:** resistant

Current year twig color: brown; green Current year twig thickness: medium; thin

Wood specific gravity: 0.35

Culture

Light requirement: tree grows in part shade/part sun;

tree grows in full sun

Soil tolerances: clay; loam; sand; slightly alkaline;

acidic; occasionally wet; well-drained **Drought tolerance:** moderate

Other

Roots: surface roots are usually not a problem **Winter interest:** tree has winter interest due to unusual form, nice persistent fruits, showy winter

trunk, or winter flowers

Outstanding tree: not particularly outstanding Invasive potential: little, if any, potential at this time

Ozone sensitivity: tolerant

Verticillium wilt susceptibility: not known to be

susceptible

Pest resistance: long-term health usually not

affected by pests

USE AND MANAGEMENT

Redwood maintains a pyramidal form and dark green foliage throughout the year. Planted in a row 15 to 20 feet apart they make a nice screen. In areas outside California and the Northwest, it is probably best used occasionally as a novelty specimen.

Redwood is tolerant of flooding, making best growth along stream banks and flood plains. Irrigation helps maintain a vigorous tree in other sites. Allow plenty of soil space for proper development.

Propagation is possible from seed and through vegetative propagation.

Pests

Few insects were noted for Sequoia species.

Diseases

No diseases are of major concern.

Sequoia sempervirens is resistant to oak root fungus.

| Quercus boissieri 15 gal | 4.0 | |
|-----------------------------------|-----|----|
| Quereus boissieri 15 gui | 10 | 10 |
| Quercus boissieri 15 gal | 40 | 40 |
| Quercus boissieri Prod PP-5 gal | 99 | 99 |
| Quercus brayi 15 gal | 21 | 21 |
| Quercus brayi 24" box | 17 | 17 |
| Quercus brayi Prod PP-5 gal | 22 | 22 |
| Quercus buckleyi 15 gal | 4 | 4 |
| Quercus calliprinos 36" box | 4 | 4 |
| Quercus calliprinos 36" box | 7 | 7 |
| Quercus calliprinos Prod PP-5 gal | 42 | 42 |
| Quercus canbyi Natural 15 gal | 27 | 27 |
| Quercus canbyi Natural 15 gal | 50 | 50 |
| Quercus canbyi Natural 15 gal | 5 | 5 |
| Quercus canbyi Natural 24" box | 2 | 2 |
| Quercus canbyi Natural 36" box | 4 | 4 |
| Quercus canbyi Natural 48" box | 1 | 1 |
| Quercus canbyi Natural 48" box | 4 | 4 |
| Quercus castaneifolia 15 gal | 37 | 37 |
| Quercus castaneifolia 24" box | 20 | 20 |
| Quercus castaneifolia 24" box | 21 | 21 |
| Quercus cerris Natural 36" box | 2 | 2 |
| Quercus congesta Prod 15 gal | 8 | 8 |
| Quercus crassipes 24" box | 5 | 5 |

| Quercus crassipes 24" box | 12 | 12 |
|--|-----|-----|
| Quercus crassipes 24" box | 62 | 62 |
| Quercus crassipes 36" box | 1 | 1 |
| Quercus dentata 36" box | 4 | 4 |
| Quercus durata Prod PP-5 gal | 102 | 102 |
| Quercus engelmannii 24" box | 268 | 268 |
| Quercus engelmannii 36" box | 4 | 4 |
| Quercus engelmannii 36" box | 8 | 8 |
| Quercus engelmannii Prod PP-5 gal | 280 | 280 |
| Quercus engelmannii Standard 15 gal | 13 | 13 |
| Quercus engelmannii Standard 24" box | 7 | 7 |
| Quercus engelmannii Standard 24" box | 4 | 4 |
| Quercus engelmannii Standard 36" box | 2 | 2 |
| Quercus engelmannii Standard 36" box | 1 | 1 |
| Quercus engelmannii Standard 48" box | 10 | 10 |
| Quercus engelmannii Standard 48" box | 1 | 1 |
| Quercus faginea 36" box | 2 | 2 |
| Quercus faginea 48" box | 1 | 1 |
| Quercus frainetto 15 gal | 45 | 45 |
| Quercus frainetto 36" box | 1 | 1 |
| Quercus frainetto Forest Green 15 gal | 100 | 100 |
| Quercus frainetto Forest Green 36" box | 5 | 5 |
| Quercus frainetto Forest Green 48" box | 9 | 9 |

| Quercus frainetto Forest Green 48" box | 21 | 21 |
|--|-----|-----|
| Quercus fusiformis 'Joan Lionetti' 36" box | 10 | 10 |
| Quercus fusiformis Natural 15 gal | 9 | 9 |
| Quercus fusiformis Natural 15 gal | 5 | 5 |
| Quercus fusiformis Natural 24" box | 20 | 20 |
| Quercus fusiformis Natural 36" box | 2 | 2 |
| Quercus fusiformis Prod PP-5 gal | 223 | 223 |
| Quercus gambelii 15 gal | 20 | 20 |
| Quercus gambelii 15 gal | 33 | 33 |
| Quercus gambelii 15 gal | 20 | 20 |
| Quercus gambelii 24" box | 25 | 25 |
| Quercus gambelii 24" box | 28 | 28 |
| Quercus gambelii 36" box | 3 | 3 |
| Quercus gambelii 36" box | 21 | 21 |
| Quercus gambelii Prod PP-5 gal | 216 | 216 |
| Quercus garryana 24" box | 28 | 1 |
| Quercus garryana 24" box | 8 | 8 |
| Quercus garryana 24" box | 11 | 11 |
| Quercus garryana Natural 36" box | 9 | 9 |
| Quercus garryana Natural 36" box | 12 | 12 |
| Quercus gravesii Natural 15 gal | 1 | 1 |
| Quercus gravesii Natural 15 gal | 1 | 1 |
| Quercus gravesii Natural 24" box | 1 | 1 |

| Quercus gravesii Natural 36" box | 7 | 7 |
|-------------------------------------|-----|-----|
| Quercus hypoleucoides 15 gal | 4 | 4 |
| Quercus hypoleucoides 24" box | 20 | 20 |
| Quercus hypoleucoides 24" box | 17 | 17 |
| Quercus hypoleucoides 24" box | 217 | 217 |
| Quercus hypoleucoides 36" box | 5 | 5 |
| Quercus hypoleucoides 36" box | 32 | 20 |
| Quercus hypoleucoides 36" box | 9 | 5 |
| Quercus hypoleucoides 36" box | 19 | 19 |
| Quercus hypoleucoides 36" box | 4 | 4 |
| Quercus hypoleucoides 36" box | 4 | 4 |
| Quercus hypoleucoides 48" box | 3 | 3 |
| Quercus hypoleucoides Prod PP-5 gal | 533 | 533 |
| Quercus laceyi Natural 15 gal | 7 | 7 |
| Quercus laceyi Natural 15 gal | 1 | 1 |
| Quercus laceyi Natural 15 gal | 13 | 13 |
| Quercus laceyi Natural 24" box | 14 | 14 |
| Quercus laceyi Natural 24" box | 9 | 9 |
| Quercus laceyi Natural 36" box | 10 | 10 |
| Quercus laceyi Natural 36" box | 18 | 18 |
| Quercus lobata 5 gal | 1 | 1 |
| Quercus lobata Natural 15 gal | 66 | 66 |
| Quercus lobata Natural 15 gal | 120 | 120 |

| Quercus lobata Natural 24" box | 92 | 92 |
|--------------------------------------|-----|-----|
| Quercus lobata Natural 24" box | 61 | 61 |
| Quercus lobata Prod PP-5 gal | 126 | 126 |
| Quercus lobata Standard 15 gal | 107 | 107 |
| Quercus lobata Standard 15 gal | 8 | 8 |
| Quercus lobata Standard 24" box | 50 | 50 |
| Quercus lobata Standard 24" box | 113 | 113 |
| Quercus lobata Standard 36" box | 9 | 9 |
| Quercus lobata Standard 36" box | 8 | 8 |
| Quercus lobata x mac Prod PP-32 ct | 55 | 55 |
| Quercus mac 'Urban Pinnacle' 24" box | 44 | 12 |
| Quercus mac 'Urban Pinnacle' 24" box | 26 | 26 |
| Quercus mac 'Urban Pinnacle' 45 gal | 2 | 2 |
| Quercus macranthera Prod 15 gal | 8 | 8 |
| Quercus macrocarpa 24" box | 2 | 2 |
| Quercus mexicana 48" box | 2 | 2 |
| Quercus muehlenbergii 15 gal | 49 | 49 |
| Quercus muehlenbergii 15 gal | 7 | 7 |
| Quercus muehlenbergii 24" box | 10 | 10 |
| Quercus muehlenbergii 36" box | 8 | 8 |
| Quercus oblongifolia 15 gal | 37 | 37 |
| Quercus oblongifolia 24" box | 15 | 15 |
| Quercus oblongifolia 24" box | 29 | 29 |

| Quercus oblongifolia 24" box | 70 | 70 |
|---|-----|-----|
| Quercus oblongifolia 36" box | 15 | 15 |
| Quercus oblongifolia Prod PP-5 gal | 369 | 369 |
| Quercus parvula 24" box | 7 | 7 |
| Quercus parvula 24" box | 6 | 6 |
| Quercus parvula 48" box | 1 | 1 |
| Quercus petraea ssp. austrotyrrhenica Prod 15 gal | 6 | 6 |
| Quercus phellos 24" box | 15 | 15 |
| Quercus phellos 36" box | 17 | 17 |
| Quercus polymorpha 24" box | 6 | 6 |
| Quercus polymorpha 36" box | 2 | 2 |
| Quercus pubescens Prod 15 gal | 8 | 8 |
| Quercus reticulata 24" box | 13 | 13 |
| Quercus reticulata 24" box | 11 | 11 |
| Quercus reticulata 24" box | 23 | 23 |
| Quercus robur Natural 48" box | 1 | 1 |
| Quercus robur fastigiata 'Skyrocket' 15 gal | 38 | 38 |
| Quercus robur fastigiata 'Skyrocket' 60" box | 4 | 4 |
| Quercus rotundifolia 24" box | 24 | 24 |
| Quercus rotundifolia 24" box | 8 | 8 |
| Quercus rotundifolia 24" box | 7 | 7 |
| Quercus rugosa 48" box | 26 | 26 |
| Quercus rugosa 48" box | 5 | 5 |

| Quercus rugosa Prod PP-5 gal | 772 | 772 |
|--|-----|-----|
| Quercus rugosa Standard 15 gal | 59 | 59 |
| Quercus rugosa Standard 24" box | 14 | 14 |
| Quercus rugosa Standard 24" box | 10 | 0 |
| Quercus rugosa Standard 24" box | 5 | 5 |
| Quercus rugosa Standard 36" box | 9 | 9 |
| Quercus rugosa Standard 48" box | 4 | 4 |
| Quercus sartorii Prod PP-32 ct | 64 | 64 |
| Quercus tomentella Natural 24" box | 121 | 121 |
| Quercus tomentella Natural 24" box | 64 | 64 |
| Quercus tomentella Natural 48" box | 15 | 15 |
| Quercus tomentella Natural 48" box | 5 | 5 |
| Quercus tomentella Natural Prod PP-5 gal | 448 | 448 |
| Quercus tomentella Standard 15 gal | 2 | 2 |
| Quercus tomentella Standard 24" box | 10 | 10 |
| Quercus tomentella Standard 36" box | 3 | 3 |
| Quercus tomentella Standard 48" box | 12 | 12 |
| Quercus trojana 48" box | 2 | 2 |
| Quercus trojana Natural 24" box | 5 | 5 |
| Quercus trojana Natural 24" box | 7 | 7 |
| Quercus trojana Natural 36" box | 14 | 14 |
| Quercus trojana Natural 36" box | 2 | 2 |
| Quercus virginiana 'Sky Climber' Standard 15 gal | 2 | 2 |

| Quercus virginiana Cathedral Standard 36" box | 14 | 14 |
|---|-----|-----|
| Quercus virginiana Cathedral Standard 48" box | 6 | 6 |
| Quercus x 'San Lorenzo' 24" box | 8 | 8 |
| Quercus x comptoniae 15 gal | 46 | 46 |
| Quercus x comptoniae 15 gal | 6 | 6 |
| Quercus x comptoniae 24" box | 4 | 4 |
| Quercus x comptoniae 24" box | 8 | 8 |
| Quercus x comptoniae 24" box | 40 | 40 |
| Quercus x comptoniae 24" box | 20 | 20 |
| Quercus x comptoniae Prod PP-5 gal | 340 | 340 |
| Quercus x mac 'Heritage' 24" box | 26 | 26 |
| Quercus x rugosa hybrid 24" box | 27 | 27 |