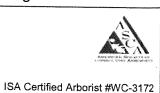


ASCA Registered Consulting Arborist #401



Assessment of and Recommendations for Fifty-Two (52) Trees at and adjacent to

> 675 Almanor Sunnyvale, CA

Prepared at the Request of: Chang Architecture

Site Visit:

Walter Levison, Consulting Arborist (WLCA)

8/28/2015

Report:

(WLCA)

10/5/2015 Revised 9/20/2016

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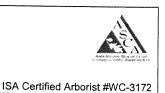
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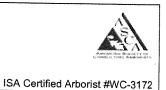
1 Summary 3 2 Assignment and Background 6 **3 Protected Trees** 6 4 Discussion – Construction Impacts 7 5 Appraisal Methodology 7 **6** Recommendations 8 7 Consultant's Qualifications 13 8 Assumptions and Limiting Conditions 14 9 Certification 14 10 Approved Vendors List 2015 15 11 Images 8/28/2015 (Note: Some trees not shown) 16 12 Tree Location Map Revised 9/20/2016 (WLCA) 21 13 Appraisal Worksheet (WLCA), Attached 22 14 Tree Data Charts Revised 9/20/2016 (WLCA), Attached 22

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1 Summary

A total of fifty-two (52) regulated size trees were assessed by Walter Levison, Consulting Arborist (WLCA) on an existing developed commercial property proposed to be redeveloped per the proposed site plan shown on the WLCA tree location map markup in section 12 of this report.

All trees in this initial study exhibit at least one (1) main stem measuring 3 inches diameter or more at 48 inches above mean grade elevation. Refer to the WLCA tree map, WLCA tree data charts, WLCA appraisal worksheet, and WLCA digital images of the trees or tree groupings below in this report for more information.

The following matrix shows trees expected to be removed, retained, impacted, etc. The matrix groups trees by protection status as "protected" and "non-protected" for ease of reference. Trees to remain are highlighted in yellow on page 4:

Tree Group Description	Tree Count	Tree Tag Numbers	Municipal Protection Status	Disposition	Maintenance & Protection Recommendations Summary
(Total tree study by WLCA)	(52)	#1 through #52	Protected & Non- protected		Note: Most important trees on site to retain and protect: #7, 11, 12, 13 (off-site), 14 (off-site), 49.
(Total trees with protected status in study by WLCA)	(34)	#7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 25, 26, 29, 32, 33, 34, 35, 36, 37, 38, 39, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52.	Protected		
Trees to be removed due to direct conflicts and very poor tree condition.	(22)	#8, 10, 15, 16, 17, 20, 25, 26, 32, 33, 34, 35, 36, 37, 44, 45, 47, 48, 49, 50, 51, 52	Protected	To be removed	
Trees to be removed due to direct conflicts and/or very poor tree condition.	(16)	#2, 3, 4, 5, 6, 9, 19, 21, 22, 23, 24, 27, 30, 31, 40, 41	Non- Protected	To be removed	
Trees recommended to be removed by WLCA due to structural and/or health issues	(2)	#15, 17 (already noted in the count above)	Protected	To be removed	

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Tree Group Description	Tree Count	Tree Tag Numbers	Municipal Protection Status	Disposition	Maintenance & Protection Recommendations Summary
Trees expected to be damaged by site plan work	(3)	#38, 39, 46	Protected	To remain	Other protected size trees may also experience significant negative impacts during site work, depending on use of protective fencing, buffers, and heavy temporary irrigation during the work.
Trees expected to be damaged by site plan work	Various	Various	Non- protected		
Trees to remain (require protection and maintenance)	(12)	#7, 11, 12, 13 (off- site), 14 (off-site), 18, 29, 38, 39, 42, 43, 46.	Protected	Retain	Temporary heavy irrigation min. 1x/week, plus trunk buffer wrapping and steel chain link fence panels.
Trees to remain (require protection and maintenance)	(2)	#1, 28	Non- protected	Retain	Temporary heavy irrigation min. 1x/week, plus trunk buffer wrapping and steel chain link fence panels.
Trees requiring special arborist maintenance measures if retained	(4)	#7, 10, 15, 43	Protected	#7, 43 to be retained. #10, 15 proposed to be removed.	 #7: Will require cabling or removal of one of two codominant mainstems at fork at 80 feet above grade. #10: Would require cabling and/or through-bolt bracing per ANSI A300 standards for tree support systems. (Tree is currently slated for removal per project team.) #15: Monitor tree for decline, and remove entire tree if tree declines to "poor" overall condition (i.e. below its current overall condition rating of 50% "fair", which is only 1 percent above the 49% threshold between "fair" and "poor"). #43: Will require cabling per ANSI A300 standards for tree support systems.

RECAP: 52 Total Trees Surveyed.

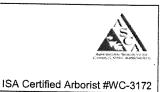
Removals: 22 protected size trees, and 16 non-protected size trees, for a total of 38 removals. Retain: 12 protected size trees, and 2 non-protected size trees, for a total of 14 trees being retained.

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Tree Condition (as of October 2015 survey date):

Site Issues

(1) Soil Moisture Deficit: Coast redwoods (*Sequoia sempervirens*), evergreen ash (*Fraxinus uhdei*), and European birch (*Betula pendula*) need <u>very heavy</u> periodic supplemental irrigation year round in the Bay Area to maintain good vigor, especially at South Bay locations such as this site where the ambient air is relatively dry, and summer rains are non-existent. This winter and spring we received well below the normal average for natural rainfall.

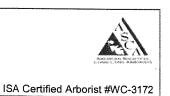
I would suggest not planting *Betula pendula* in the south bay due to its inappropriateness for this climate. Good birch alternatives exist in the wholesale nursery trade such as 'Dura Heat' birch and Heritage river birch (*Betula nigra* 'Heritage') which are much more drought resistant than European birch.

Alternatives for coast redwood include drought tolerant cedar species such as Atlas cedar (*Cedrus atlantica*) and deodar cedar (*Cedrus deodara*).

- (2) Insect Issues / Drought / Pitch Canker: Monterey pine (*Pinus radiata*) #15 could fall into a rapid spiral of decline initiated by bark beetles which are attracted to pines under stress from soil moisture deficit (drought stress). Beetle presence can cause tree decline very rapidly, and the beetles are also the vector for transmission of pine pitch canker fungus, which in itself can be fatal or cause rapid decline in Monterey pines. I suggest considering this tree for removal, or at the very least monitoring its condition, and slating it for removal if it declines to 49% overall condition (poor) which would be only a single digit drop from its current overall rating of 50% (fair).
- (3) Heavy Limb Endweight & Crowded Limbs: As is common with open-grown trees in commercial settings such as the 675 Almanor site, scaffold limbs and branches achieve extended form due to the lack of normal, crowded forest conditions in which the trees would normally be growing in their natural range. This results in trees that are over-extended and are prone to splitout from excessive load forces acting on the limb and branch attachments. Many of the trees at site could benefit from structural renovation pruning under the direct monitoring and guidance of an ISA Certified Arborist to remove crowded stems and reduce the endweights of heavy limb systems by selectively removing branch endweight per ANSI A300 pruning standards. This mainly involves removal of the outermost portions of limbs to reduce their lengths. This technique is far to infrequently performed in the Bay Area, but has been scientifically proven to reduce risk of limb and branch splitouts if performed correctly.
- (4) Codominant Mainstem Cabling or Bracing: Many of the coast redwoods at this site exhibit codominant mainstems with narrow forks that present a structural defect. Coast beefwood also exhibit this trait. Trees being retained such as #7 and 43 will require cabling and/or bracing with through-bolt cables if the trees are being retained. Alternatively, one of two codominant mainstems on certain trees such as #7 could be removed at the fork to avoid cabling or bracing (see the last row of information in the matrix above).



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2 Assignment and Background

The author Walter Levison, Consulting Arborist (WLCA) was retained by the Client to tag and assess all regulated trees on and adjacent to the subject property that appeared would be affected by proposed site plan work at 675 Almanor. WLCA was also requested to prepare a formal written arborist report per City of Sunnyvale standards.

This document contains tree data charts, appraisal (valuation) charts which determine the dollar value of each tree per the most current edition of the *Guide for Plant Appraisal* and the *Western Chapter ISA publication* known as "Species Classification and Group Assignment (2004 edition), digital images of each tree or tree groupings, a tree location map mark-up (using landscape sheets L1.0 and L1.1 by Reed Associates Landscape Architecture as a base sheet) showing all fifty-two tree trunk locations noted by numeric designation "1" through "52", discussion of existing site conditions and expected negative impacts related to current proposed construction work, and recommendations for protection and maintenance of trees that (preliminarily) appear to be retainable based on the current proposed scope of commercial site plan construction.

The WLCA tree data charts attached to this report include recommendations for tree maintenance and protection listed as codes. These are a quick reference for project team members working on the pre-construction, construction, and post-construction phases of the project.

Appraisal data is contained in a separate worksheet with most or all data used in the calculations shown transparently. The worksheet also contains an extensive legend and notes section for reference.

The entire document, including the tree data charts and tree protection map, were revised on 9/20/2016 per direction by the project architect, in order to conform to the most recent set of submittal plans. The latest plan iteration removes all site trees within the Hetch Hetchy (SFPUC) water delivery system right-of-way which spans across the property in an east-west trajectory.

3 Protected Trees

The City of Sunnyvale, California protects private trees with a single main stem measuring at least 12.1 inches diameter at 48 inches above grade, and private multi-stem trees with stems totaling at least 36 inches diameter at 48 inches above grade.

Per this definition, there are 34 protected trees and 18 non-protected trees at the site. See the tree disposition matrix above in the summary section of this report for details.



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4 Discussion – Construction Impacts

WLCA reviewed only the proposed bird's-eye site plan document used to create the tree location map attached to the end of this report. Therefore, the following discussion is preliminary only:

- Smaller trees: Trees with minimal offsets from the existing office complex footprint appear to be retainable, such as trees #1, 21, 22, 23, 24. However, renovation of existing concrete walkway, patio, retaining wall, and other related landscape work in these areas may require that some of these smaller diameter, less valuable trees end up being removed, even though the team will make an effort to protect and retain these trees.
- 2. Important trees: Trees that need to be retained given their high value per my appraisal worksheet include coast redwoods and cedars such as trees #7, 11, 12, 13 (off-site), and 14 (off-site). Tree #49 was also a high value specimen, but is now to be removed due to its location on the SFPUC water delivery right-of-way.

Special construction specifications, methods, and materials should be used when renovating the planter areas, asphalt parking lot surfacing and baserock, in order to avoid causing damage to root systems of these trees that may be quite extensive. Some of these trees may have lateral roots that extend horizontally as far as 40 to 50 feet radius out from trunk through the parking lot baserock, just under the asphalt surfacing, which is actually quite common with larger mature trees such as these. Also helpful will be arborist monitoring of the work, which may or may not be required as a City condition of approval for this project. Nevertheless, arborist involvement before, during, and after construction can help avoid tree decline, tree death, etc. by limiting work in critical root zone areas, and by verifying with a soil moisture meter/probe that heavy irrigation is being applied to the trees' root zones during construction.

3. Increasing open soil areas around trees: Some large trees are experiencing problems due to curbs and other hardscape that is limiting their root extension laterally, and causing the trees to remain stressed, stunted, or otherwise in decline due to their inability to gain adequate soil moisture.

Trees such as redwoods being retained along the Almanor street frontage (e.g. trees #7, 11, and #12) could significantly benefit from enlargement of open soil areas by carefully shallow-peeling the existing curb and asphalt surfacing off from their root zones within zero to 25 feet of the trunks under direct arborist guidance on site during demolition. The project team did redesign the planter areas and sidewalks in these areas which will result in better preservation of the existing open soil root zones of the trees. Toward this end, the sidewalks will meander in half-moon shaped arcs toward the parking lot, which will require that an easement be granted to allow the City walk to encroach into the private land of this site.

5 Appraisal Methodology

All fifty-two (52) off-site and on-site trees were considered larger than replaceable size given that replacement trees in the nursery trade are 48" box size max. Therefore, the correct methodology for determination of tree value was use of the trunk formula method or TFM.

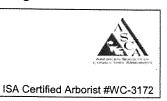
Trunk cross sectional area data from the *Guide for Plant Appraisal* and the WC-ISA pamphlet on species data and group assignment data were inserted into an Excel spreadsheet in a transparent manner.

Trees with multiple mainstems were treated by summing up the cross sectional areas of all main stems to determine basic value. These trees are noted in the appraisal worksheet with bold black to indicate that

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WLCA manually adjusted the TA using data from the *Guide*. Trunk cross sectional area data is also bolded black. WLCA rounded down when determining multi-stem cross sectional area totals, for reasonableness.

Per appraisal protocol, main stems measuring greater than 30 inches diameter were reduced by using the Guide's "adjusted trunk area" data which reduces the cross sectional area for larger trees, achieving more reasonable basic values for larger landscape trees. These trees are also noted in the appraisal worksheet with bold black to indicate that WLCA adjusted the trunk cross section data downward per the Guide, and the trunk area in square inches is also bolded black. Again, WLCA rounded all mainstem diameters down for reasonableness when calculating the individual cross sectional areas for single stem and multi-stem trees with stems larger than 30 inches diameter each.

For "location" data determination (site + contribution + placement / 3), WLCA used "0.85" for the "site" factor for all 52 trees. Contribution and placement were determined on a tree by tree basis.

Final dollar values are shown in the right hand column of the appraisal charts, with values rounded down to the nearest \$100 for trees valued over \$5,000 and rounded to the nearest \$10 for specimens valued less than \$5,000, per the Guide.

The total value of all 52 on-site and off-site trees in this initial study was determined to be **\$270,250**. Refer to the attached appraisal worksheet for more information. Note that the appraisal table was not revised during the 9/20/2016 update.

6 Recommendations

PRE-PROJECT ITEMS

1. Project Arborist:

Retain an official project arborist or "PA" to the project to perform initial signoff inspection to verify trunk buffer and chain link fencing installation prior to start of demolition, and (if required) perform periodic signoff inspections and written letter style reports to planning division, root zone soil moisture monitoring, demolition monitoring, etc. The PA should be an ASCA Registered Consulting Arborist with extensive experience in construction monitoring such as Walter Levison, Consulting Arborist, or another consultant with similar background and experience.

2. High Risk Trees:

Monterey pine #15 will be removed from the landscape as a low value, higher risk type tree.

3. Design / Trenching:

Align any and all proposed utility and landscape excavation trenches (e.g. landscape irrigation piping, TV, water, fire water, storm water, sanitary sewer, gas, low voltage electric, high voltage electric, etc.) such that there is a 15 to 25 foot minimum horizontal offset between trench edges and trunk edges of trees being retained.

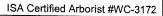
The PA should verify that all final building set plan sheets comply with the recommendations outlined in this arborist report.

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4. Design / Important Trees:

Design all new landscaping, hardscape, curbs, irrigation lines, utilities, lighting conduit, etc. to be at least 15 to 25 feet offset from important large high value trees being retained such as **trees #7**, **11**, **12**, **13**, **and 14**.

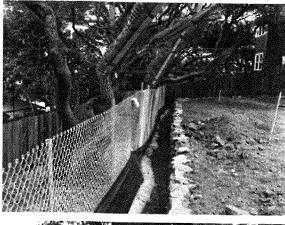
The PA should verify that all final building set plan sheets comply with the recommendations outlined in this arborist report.

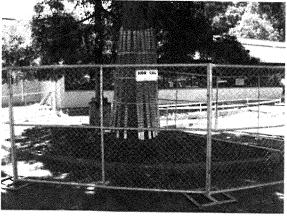
5. Root Protection Zone / Chain link:

Install chain link fence panels to be set in place with wires and rebar or other heavy duty pins around **all trees to be retained** (see images at right). This fencing shall be known as the root protection zone or "RPZ". WLCA will work with the project general contractor to determine the actual final routing for the chain link RPZs. Current minimum recommended distance from trunk edges to fence lines is 15 to 25 feet radius (i.e. the "canopy driplines" before any pruning has been performed).

Fencing material used for all protective fences must be steel chain-link panels.

Use straw erosion control wattles pinned down with a wooden dowel every two horizontal feet along the bottom edges of the panels to control liquid waste encroachment into the RPZs (see images above right).





The protective fencing must not be temporarily moved during construction. Materials, tools, excavated soil, liquids, substances, etc. shall not be placed or dumped, even temporarily, inside the RPZ. Storage, staging, work, or other activities shall not occur inside the RPZ without the expressed written (emailed) permission from the assigned project arborist.

6. Signage:

The TPZ fencing should have one sign affixed with UV-stabilized zip ties to the chain link at eye level for every 20-linear feet of fencing, minimum 8"X11" size each, plastic laminated or otherwise waterproofed, stating:

ISA Certified Arborist #WC-3172



ISA Qualified Tree Risk Assessor

ASCA Registered Consulting Arborist #401



-NO ENTRE SIN PERMISO. LLAME EL ARBOLISTA WALTER LEVISON-

DO NOT MOVE OR REMOVE WITHOUT AUTHORIZATION FROM WALTER LEVISON, PROJECT ARBORIST

CALL OR EMAIL 48-HRS ADVANCE FOR PERMISSION

TELEFONO CELL 415-203-0990 / EMAIL DRTREE@SBCGLOBAL.NET

7. Trunk Buffer:

Affix a trunk buffer around the trunks of all trees being retained prior to demolition commencement. See image below right for sample spec.

Best Management Practice for tree protection of **all trees to remain on site** is to wrap an entire roll of orange fencing around the lower 8 feet of trunk of each tree, and affix 2X4 or 1X4 boards (or waste wood of similar dimensions) around the circumference of the trunk, and secure with duct tape on the outside (do not use wires). See specification image at right, which shows a tree wrapped with high grade stiff red plastic fencing material from White Cap rather than the more commonly available orange snow fencing from Home Depot which is more flexible and less protective.



DURING-PROJECT ITEMS

8. Demolition1 / Arborist Monitor:

Call the project arborist to monitor during special periods when heavy demolition, excavation, etc. are occurring in close proximity to trees, such as during demolition of existing walkways and foundation materials within 15 to 25 feet of large mature trees being retained.

9. Demolition2 / Leave It Alone:

Avoid removal of any concrete, asphalt, or metal materials that are currently located in the subgrade (root systems) within 10 horizontal feet of the trunk edge of any tree being retained, to avoid causing irreversible damage to fine roots, woody roots, and root crown areas of trees being retained. If necessary, saw cut the materials using a circular saw with a diamond or carbide demolition blade at 10 horizontal feet out from trunk edges of the trees, and leave the remaining materials as-is between zero and 10 feet out from the trunks to avoid damaging the root systems.

As noted above in this report, retain Walter Levison or another consulting arborist to monitor demolition, and verify that fencing protection is placed immediately after, and heavy irrigation applied immediately after, root zones of trees being retained are opened up during demolition. Tree root zones under old hardscape being

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ISA Qualified Tree Risk Assessor

removed are subject to desiccation and damage when the surfacing hardscape is removed, since that hardscape previously acted as an anti-desiccant and soil protection "buffer".

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10. Water Spray:

If standard pressure water is available on site, spray off foliage of all trees being retained on a 1x/month basis using a high power garden hose to wash both the upper and lower

surfaces of the foliage. This helps keep the gas portals (stomata) unclogged for better gas exchange which is crucial for normal tree function (see image above right).

11. Irrigation / Temporary:

Provide heavy periodic supplemental irrigation on a schedule to be determined by the PA (see sample images at right). The PA will probe the soil during site inspections to determine if irrigation is necessary, and if so, at what frequency, duration, and location(s). Typical irrigation for high water use type trees such as coast redwoods on construction sites is heavy 1x/week irrigation, approximating 50 to 100 gallons, per tree, 1x/week minimum, on a single day.

The most beneficial construction period irrigation locations are typically out at the RPZ fencelines where tree root systems will be damaged or destroyed by vehicle traffic, excavation, trenching, and other subgrade work.

Application method(s) can include, but are not limited to:

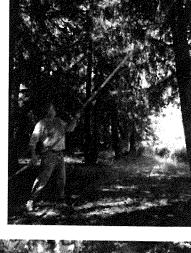
- Water tank/spray system.
- Domestic water supply with garden hose system and/or soaker hose and/or emitter lines snaked throughout the RPZ areas with extra hose sections laid along the actual **RPZ** fencelines themselves
- On-site tank with gravity feed hose.
- Over-grade PVC irrigation piping build over the soil surface and affixed with high volume adjustable type flood bubblers (see image at right).

A four-inch thick layer of chipper truck type wood chip mulch often allows for better downward movement of surface applied irrigation water down into the root zones of trees (see spec images above right).

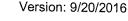
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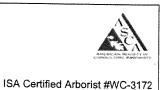
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12. Irrigation / Permanent:

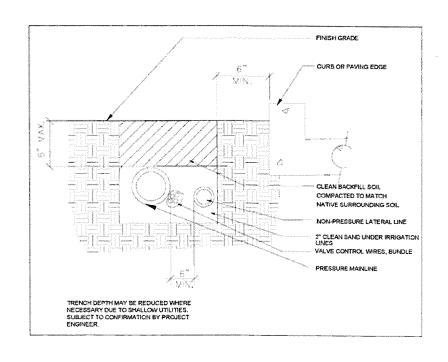
Type: It is suggested that all permanent irrigation for existing trees be built either over grade (e.g. poly tubing with adjustable flood bubblers, over-grade PVC "floating system" as shown in image on page 10 above) or in very shallow trenches with maximum 3 to 6 inches of cover over pipe top elevations (see image at right, copyright Sandis Civil 2015):

Horizontal Encroachment Limits:

Avoid all PVC irrigation pipe trench cuts within 15 to 25 horizontal feet of any tree being retained, if possible.

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Depth: Avoid all cuts below 6 inches depth of total cut below existing grade elevations.

Spray Limits: Avoid irrigation spray contact onto the trunk bark of any tree.

Redwood Irrigation: Provide coast redwood specimens with heavy periodic irrigation throughout the year in an attempt to boost the trees' vigor. Coast redwoods require year-round heavy supplemental irrigation on at least a once-weekly basis.

13. Pruning (may be performed prior to commencement of site work):

Retain a qualified ISA-Certified Arborist to perform or directly monitor and advise on site:

- Removal of selected crowded branches and limbs on trees being retained per ANSI-A300 pruning standards for thinning (section 5.6.2.1 "thinning should result in an even distribution of branches on individual limbs and throughout the crown" (i.e. it is NOT lion-tailing). Section 5.6.2.2 "not more than 25 percent of the crown should be removed within an annual growing season".
- Reduction of branch endweight as necessary on trees being retained, to reduce load forces on branch attachments, per ANSI A300 pruning standards.
- Trees #7 and #43 should have cables and/or through-bolt bracing installed between upright codominant mainstems and large diameter limbs, per ANSI A300 standards for tree support systems and the ISA companion publication "Best Management Practices Tree Support Systems: Cabling, Bracing, and Guying" (or 2nd alternative for redwood #7 is to remove one of the two codominant mainstems at the fork at 80 feet above grade which would avoid the need to install arbor cables).

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Do not perform topping, shearing, lion-tailing (removal of inner and lower wood), or thinning pruning which are contrary to the American National Standard Institute A-300 Standard for Tree Care / Tree Shrub and Other Woody Plant Maintenance / Pruning.

The tree care contractor retained for this work shall contact the project arborist via phone 48 hours minimum prior to pruning to allow the PA to monitor portions of this work. Refer to the approved vendor list in this report for local tree care contractors.

7 Consultant's Qualifications

- Contract Town Arborist, Town of Los Gatos, Planning Division. 11/15-present
- ISA Qualified Tree Risk Assessor
- □ ISA Qualified Tree Risk Assessor Course, Palo Alto, CA. 2013
- ISA Certified Tree Risk Assessor Course graduate, 2009 (TRAQ) Vancouver, B.C., Canada and Palo Alto, California.
- □ ASCA Registered Consulting Arborist (RCA) #401
- Millbrae Community Preservation Commission (Tree Board) 2001-2006
- □ ASCA Arboriculture Consulting Academy graduate, class of 2000
- □ ISA Certified Arborist (CA) #WC-3172
- B.A. Environmental Studies/Soil and Water Resources UC Santa Cruz, Santa Cruz, California 1990
- Peace Corps Soil and Water Conservation Extension Agent Chiangmai Province, Thailand 1991-1993
- Associate Consulting Arborist Barrie D. Coate and Associates 4/99-8/99
- Contract City Arborist to the City of Belmont Department of Planning and Community Development 5/99-present
- Continued education through attendance of arboriculture lectures and forums sponsored by The American Society of Consulting Arborists, The International Society of Arboriculture (Western Chapter), and various governmental and non-governmental entities.

(My full curriculum vitae is available upon request)



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8 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 qualifications.

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.

Unless expressed otherwise:

- a. 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
- b. 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.

9 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.

Signature of Consultant

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Version: 9/20/2016



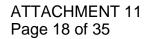
ASCA Registered Consulting Arborist #401

ISA Certified Arborist #WC-3172

10 Approved Vendors List

Service	Company	What they offer	Contact
Transplanting	Tree Movers Inc.	Large specimen trees, transplant services.	650-968-6117
n	Valley Crest Tree Co. tree moving division	Large specimen trees, transplant services.	818-223-8500
Pruning	Advanced Tree Care	Pruning, root crown excavation, fertilization, tree installation, support systems for high risk trees, SOD phosphate sprays.	650-839-9539
	Maguire Tree Care	Pruning performed directly by an ISA Certified Arborist	650-245-2620
	Trees 360	Pruning performed directly by an ISA Certified Arborist (upon request).	408-866-1010
Special Tree Sources	Specialty Oaks Lower Lake, CA	California native oak species	www.specialtyoaks.com
	Oracle Nursery	Various oaks and hybrid elms. Only local purveyor of hard to find Italian oak (Q. frainetto 'Forest Green')	www.oracleoaknursery.com
	Sweet Lane Wholesale Nursery Santa Rosa, CA	Can import rare oaks such as the fantastic Forest Green Hungarian oak, from Oregon growers. Also may be able to request the excellent Cathedral live oak (<i>Quercus virginiana</i> 'Cathedral')	www.sweetlanenursery.com
	L.E. Cooke Nursery Visalia, CA	Only source of <i>Platanus</i> 'Roberts' (Roberts sycamore) in California that I am aware of. An excellent tree for use in parking lots and other urban situations.	L.E. Cooke Co 26333 Road 140 Visalia, CA 93292 Phone: 559-732-9146 Toll Free: 800-845-5193 Fax: 559-732-3702

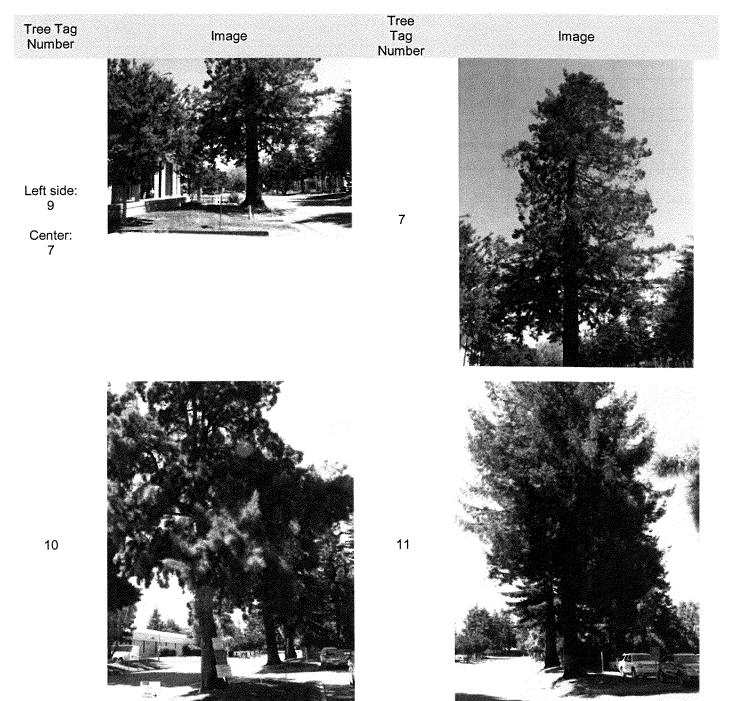
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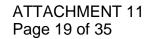
11 Images 8/28/2015 (Note: Some trees not shown)

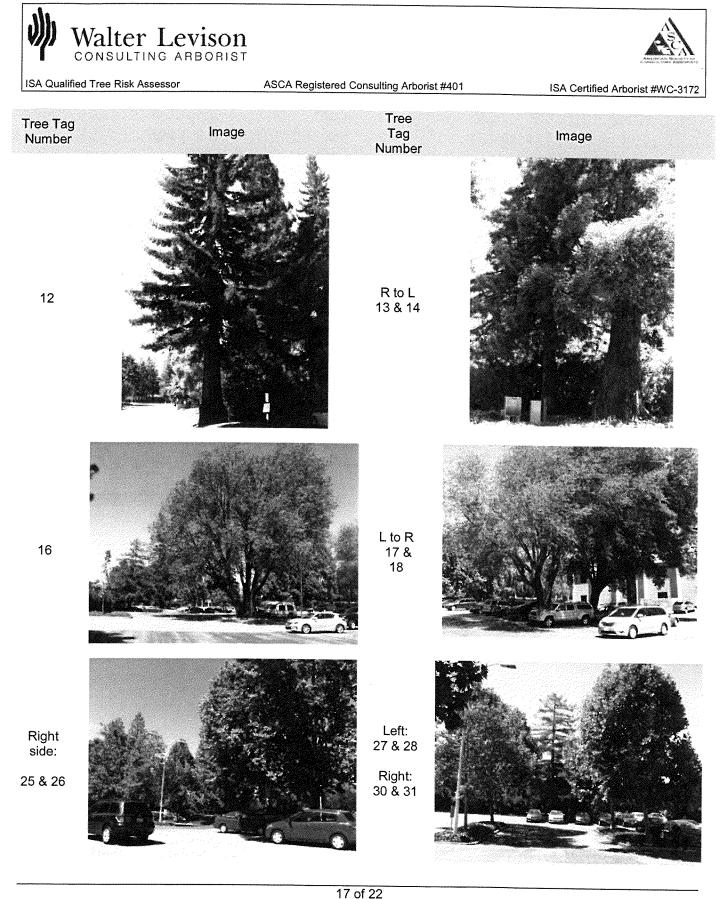


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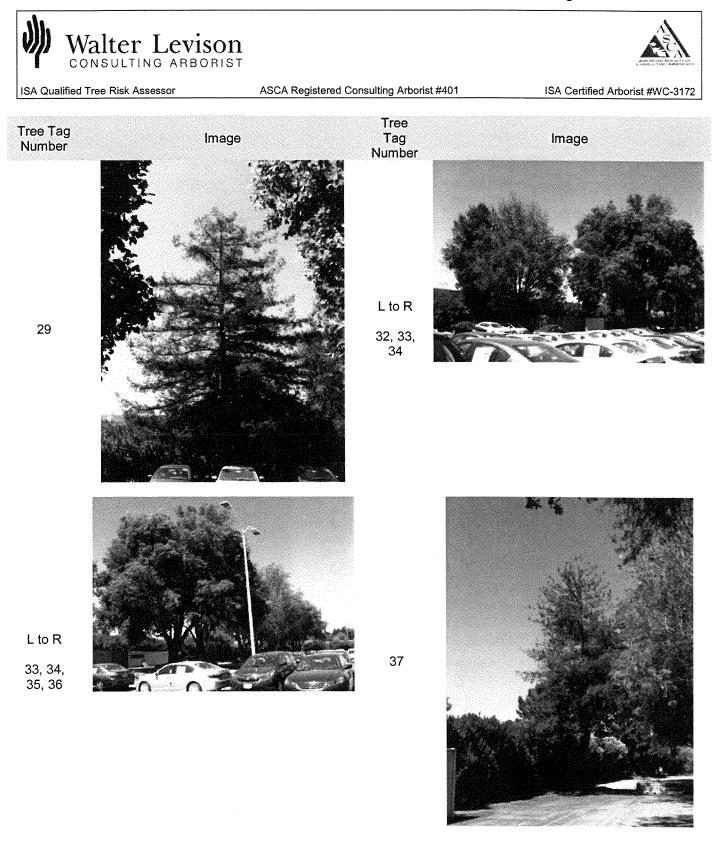




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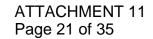
Version: 9/20/2016

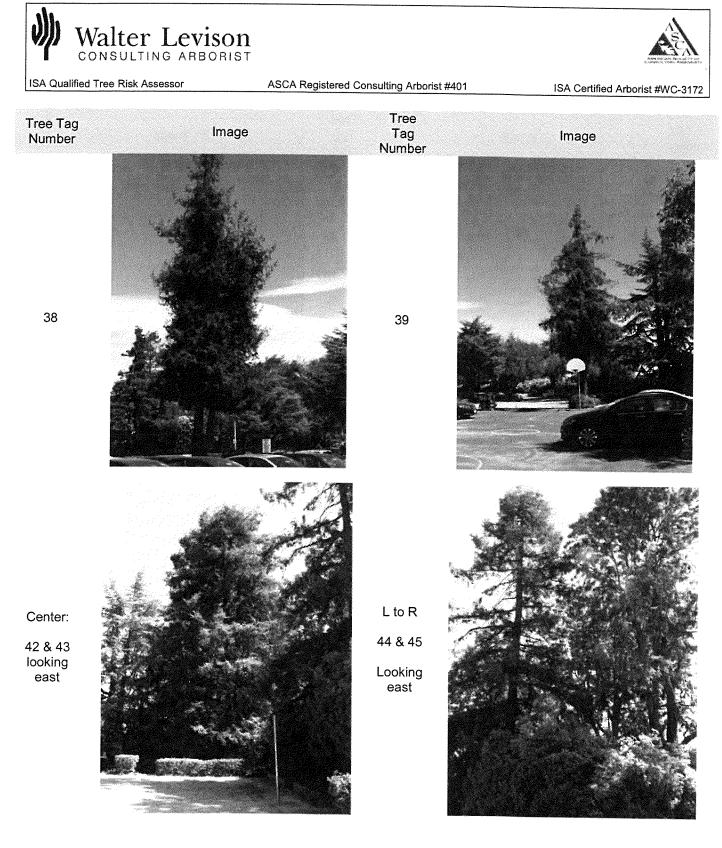
ATTACHMENT 11 Page 20 of 35



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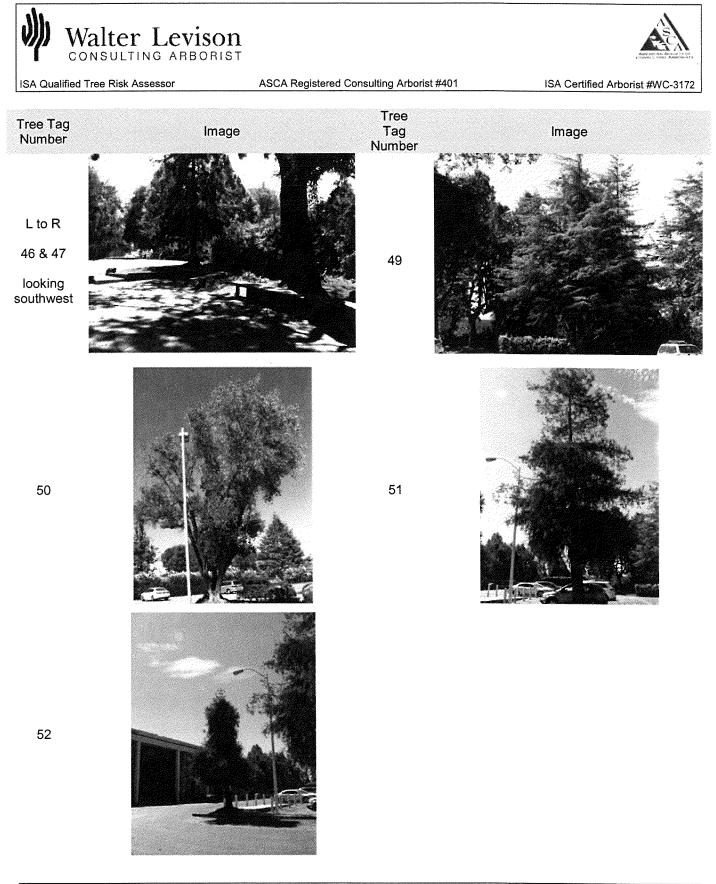
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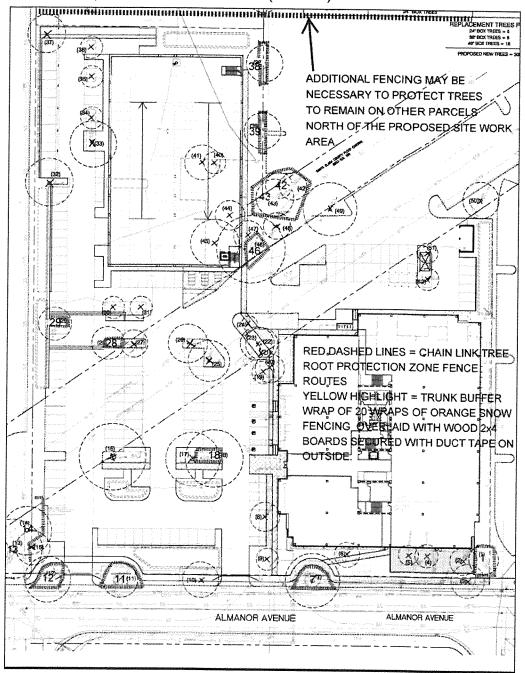


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12 Tree Location Map Revised 9/20/2016 (WLCA)



Trees to be retained are shown in large type, with red dashing indicating WLCA's suggested minimum chain link root protection zone routing, and yellow highlight indicating trunk buffer wrap around each tree trunk as redundant protection for the above-ground trunk tissues. Recent 2016 decisions dictated that all trees located on the Hetch Hetchy water delivery system (SFPUC) right-of-way be indicated as to be removed.

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13 Appraisal Worksheet (WLCA), Attached

14 Tree Data Charts Revised 9/20/2016 (WLCA), Attached

		卿			r Li												*****			*****		
		1		1				A	ppr	aisal	Wor	ksheet,	675 Al	manor,	Sunn	yvale, (Califorr	nia 10)/5/201	5	1	[
	Ln 1		Ln 2	Ln 3	Ln 4		Locati	on		Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11	Ln 11.1	Ln 11.2	Line 12	Line 13	Line 14	Line 15
Tree #	Name (Initials)	"Green Book" Page	Condition	Diameter	Location %	Site	Contribution	Placement	"Grn Bk" Group	"Grn Bk" Species	"Grn Bk" TA _r	"Green Book" Replacement Cost	"Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	>30" ATAa	Ta _{incr}	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
1	Lh	19	78%	7	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	38.47	38.47		36.375	\$ 3,358.04	\$ 1,453.69	\$1,450
2	Lh	19	79%	7.6	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	45,34	45.34		43.2516	\$ 3,927.56	\$ 1,722.04	\$1,720
3	Qr	31	85%	6.3	63%	85%	20%	85%	2	70%	2.24	\$172.73	\$172.73	\$345.46	\$77.04	94.NG	31.16		28.9167	\$ 2,573.20	\$ 969.67	\$970
4	Lh	19	70%	multi stem	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	94.00	94.00		91.91	\$ 7,957.45	\$ 3,091.47	\$3,090
5	Lh	19	66%	multi stem	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	35.00	35.00		32.91	\$ 3,071.07	\$ 1,124.93	\$1,120
6	Lh	19	70%	multi stem	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	69.00	59.00		56.91	\$ 5,058.75	\$ 1,965.32	\$1,970
7	Ss	34	75%	61.1	83%	85%	80%	85%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1884.00		1894	1889.25	\$ 69,038.59	\$ 30,204.38	\$30,200
8	Вр	6	35%	16.8	63%	85%	25%	80%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	201.06	221.56		217.758	\$ 10,244.76	\$ 681.28	\$680
9	Lh	19	25%	7.9	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	相思	48.99		46.9019	\$ 4,229.87	\$ 586.89	\$590
10	Cs	8	50%	24.6	72%	85%	45%	85%	3	50%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	475.(15	475.05		471.251	\$ 21,768.51	\$ 3,900.19	\$3,900
11	Ss	34	75%	41.8	82%	85%	80%	80%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1191,00		1191	1186.25	\$ 43,477.51	\$ 18,640.98	\$18,600
12	Ss	34	79%	61.8	78%	85%	80%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1711.00		see note #4	1706.25	\$ 62,384.71	\$ 27,024.02	\$27,000
13	Ss	34	80%	75.7		85%	30%	80%		70%	4.75	\$172.73	\$172.73		\$36.36	2226.00		2226	2221.25	\$ 81,110.11	\$ 29,524.08	\$29,500
14	Ss	34	75%	36.5	68%	85%	40%	80%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	974.00	T	974	969.25	\$ 35,587.39	\$ 12,766.98	\$12,800

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	Ln 1		Ln 2	Ln 3	Ln 4		Locati	on		Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11	Ln 11.1	Ln 11.2	Line 12	Line 13	Line 14	Line 15
# eeı1	Name (Initials)	"Green Book" Page	Condition	Diameter	Location %	Site	Contribution	Placement	"Grn Bk" Group	"Grn Bk" Species	"Grn Bk" TA _r	"Green Book" Replacement Cost	"Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	>30" ATAa	Ta _{incr}	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
15	Pr	25	50%	24	60%	85%	15%	80%	4	10%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	452.16	452.16		447.41	\$ 16,613.29	\$ 498.40	\$500
16	Fu	16	53%	73	68%	85%	50%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	2187.00		2187	2182.25	\$ 79,692.07	\$ 8,658.54	\$8,700
17	Fu	16	35%	43.1	68%	85%	50%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1273.00		1273	1268.25	\$ 46,459.03	\$ 3,333.44	\$3,300
18	Fu	16	55%	43.3	68%	85%	50%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1627/3.00		1273	1268.25	\$ 46,459.03	\$ 5,238.26	\$5,200
19	Вр	6	70%	multi stem	63%	85%	15%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	60.00	60.00		56.2	\$ 2,900.31	\$ 385.74	\$390
20	Вр	6	53%	12.7	<u> </u>	85%	15%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	126.61	126.61	ļ	122.813	\$ 5,928.52	\$ 597.00	\$600
21	Вр	6	50%	multi stem	63%	85%	15%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	125.00	125.00		121.2	\$ 5,855.21	\$ 556.25	\$560
22	Вр	6	57%	7.5	63%	85%	15%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	dai 16	44.16		40.3563	\$ 2,180.06	\$ 236.10	\$240
23	Вр	6	50%	multi stem	67%	85%	25%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	174.00	174.00		170.2	\$ 8,082.75	\$ 808.28	\$810
24	Вр	6	65%	7	67%	85%	25%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	38.47	38.47		34.665	\$ 1,921.33	\$ 249.77	\$250
25	Pa	26	78%	18	73%	85%	55%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	254.34	254.34		250.54	\$ 11,735.01	\$ 5,369.94	\$5,400
26	Ра	26	75%	14.7	70%	85%	45%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	169.63	169.63		165.831	\$ 7,884.12	\$ 3,311.33	\$3,300
27	Ра	26	67%	7.4	63%	85%	25%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	42.99	42.99		39.1866	\$ 2,126.88	\$ 722.01	\$720
28	Ра	26	80%	11	68%	85%	40%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	94.99	94.99		91.185	\$ 4,490.73	\$ 1,963.95	\$1,960
29	Ss	34	40%	30.4	63%	85%	35%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	707.00		707	702.25	\$ 25,879.27	\$ 4,589.26	\$4,590
30	Ра	26	75%	10.8	70%	85%	45%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	91.56	91.56		87.7624	\$ 4,335.14	\$ 1,820.76	\$1,820

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	Ln 1		Ln 2	Ln 3	Ln 4		Locati	ion		Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11	Ln 11.1	Ln 11.2	Line 12	Line 13	Line 14	Line 15
Tree #	Name (Initials)	"Green Book" Page	Condition	Diameter	Location %	Site	Contribution	Placement	'Gm Bk'' Groun	"Gm Bk" Species	"Gm Bk" TA,	"Green Book" Replacement Cost	"Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	>30" ATAa	Ta _{lucr}	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
31	Ра	26	78%	9.7	70%	85%	45%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	rg gie	73.86		70.0607	\$ 3,530.42	\$ 1,542.09	\$1,540
32	Fu	16	45%	multi stem	70%	85%	55%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	874.00		871	866.25	\$ 31,842.31	\$ 3,009.10	\$3,010
33	Fu	16	64%	43.1	70%	85%	45%	80%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1275,00		1273	1268.25	\$ 46,459.03	\$ 6,244.09	\$6,200
34	Fu	16	55%	38.8	68%	85%	50%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1069,00		1063	1058.25	\$ 38,823.43	\$ 4,377.34	\$4,380
35	Fu	16	20%	33.7	58%	85%	20%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	835-00		835	830.25	\$ 30,533.35	\$ 1,068.67	\$1,070
36	Fu	16	45%	39.2	63%	85%	35%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1108.00		1106	1101.25	\$ 40,386.91	\$ 3,453.08	\$3,450
37	Ss	34	70%	26.3	63%	85%	35%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	542,98	542.98		538.227	\$ 19,915.38	\$ 6,180.41	\$6,200
38	Ss	34	75%	28.2	63%	85%	35%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	624.26	624.26		619.513	\$ 22,870.97	\$ 7,604.60	\$7,600
39	Ss	34	35%	multi stem	58%	85%	20%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	340.00	340.00		335.25	\$ 12,535.15	\$ 1,791.48	\$1,790
40	Fu	16	78%	6.8	58%	85%	10%	80%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	36,30	36.30		31.5484	\$ 1,492.56	\$ 203.73	\$200
41	Fu	16	75%	8.4	58%	85%	10%	80%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	55.89	55.39		50.6396	\$ 2,186.72	\$ 287.01	\$290
42	Ss	34	55%	15.7	72%	85%	40%	90%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	198.48	193.49		188.745	\$ 7,208.22	\$ 1,988.87	\$1,990
43	Ss	34	70%	multi stem	75%	85%	50%	90%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1087.00	1087.00		1082.25	\$ 39,696.07	\$ 14,588.31	\$14,600
44	Ss	34	68%	26.4	72%	85%	40%	90%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	547.11	547.11		542.364	\$ 20,065.80	\$ 6,845.11	\$6,800

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	Ln 1		Ln 2	Ln 3	Ln 4		Locati			Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11			Line 12	Line 13	Line 14	Line 15
Tree #	Name (Initials)	"Green Book" Page	Condition	Diameter	Location %	Site	Contribution	Placement	"Grn Bk" Group	"Grn Bk" Species	"Grn Bk" TA _r	"Green Book" Replacement Cost	"Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	>30" ATAa	Ta _{lucr}	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
45	Gr	17	35%	34.1	67%	85%	35%	80%	2	30%	2.24	\$172.73	\$172.73	\$345.46	\$77.04	882.00		882	879.76	\$ 68,122.17	\$ 4,768.55	\$4,770
46	Ss	34	40%	15.8	73%	85%	45%	90%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1915.97	195.97		191.217	\$ 7,298.12	\$ 1,498.55	\$1,500
47	Gr	17	44%	31.8	70%	85%	45%	80%	2	30%	2.24	\$172.73	\$172.73	\$345.46	\$77.04	739.00		739	736.76	\$ 57,105.45	\$ 5,276.54	\$5,300
48	Gr	17	25%	20.8	58%	85%	10%	80%	2	30%	2.24	\$172.73	\$172.73	\$345.46	\$77.04	339.62	339.62		337.382	\$ 26,337.40	\$ 1,152.26	\$1,150
49	Са	8	84%	29.3	78%	85%	60%	90%	3	90%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	873.F	673.91		670.115	\$ 30,808.87	\$ 18,245.01	\$18,200
50	Oe	22	37%	multi stem	1 /11%	85%	35%	90%	3	90%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	396.00	396.00		392.2	\$ 18,174.87	\$ 4,236.56	\$4,240
51	Ss	34	35%	25.6	60%	85%	25%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	514.46	514.46		509.708	\$ 18,878.43	\$ 2,775.13	\$2,780
52	Ss	34	60%	12.8	62%	85%	10%	90%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	128181	128.61		123.864	\$ 4,849.17	\$ 1,255.93	\$1,260
																					Total value of all 52 trees in this study	\$270,250

	V	聊	Wa	lte	r L	evis	on BIST															
								Α	ppr	aisal	Wor	ksheet,	675 Alr	nanor,	Sunny	vale, (Californ	ia 10)/5/2015	5		
	Ln 1		Ln 2	Ln 3	Ln 4		Locati	on		Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11	Ln 11.1	Ln 11.2	Line 12	Line 13	Line 14	Line 15
free #	Vame (Initials)	"Green Book" Page	Condition	Diameter	-ocation %	Site	Contribution	Placement	"Grn BK" Group	"Grn Bk" Species	'Gm Bk" TA _r	"Green Book" Replacement Cost	"Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	>30" ATAa	Ta _{incr}	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
App		100000			nd																	ogening generation (* 1997 – 1997 – 1997 – 1997 – 1997 – 1997 – 1997 – 1997 – 1997 – 1997 – 1997 – 1997 – 1997
Note: th Note: IS	Coun e CT SA is I	cil of LA ca he pu	Tree a Ils for t Iblishe	nd Lar the dev r of the	ndscape velopm e GPA,	e Appra ent of lo and loc	nisers (ocally r cal ISA	a conce relevant chapte	ensus spec	group cies and	of seve I nurse	ry data by a	a Regional	Plant App	raisal Cor	nmittee.			, and ASLA (see "Gree	.). n Book" below)).	
Ln # = Li Tree # = "Green F Conditio Diamete	per 1 Book on = fi	ree C " = co rom T	hart & Iloquia ree Ch	Tree I al name hart in 1	Map in e for the this rep	this rep e Speci ort.	oort.		on &	Group	Assign	ment (used	to have a	green cov	er); refers	to standa	rd publicat	ion req	uired for loo	cal reference, p	bublished by WC-	ISA.
Location Green B Green B	n = gu k Gro k Spi	uided oup = ecies	by the Group = Spe	Guide assig cies cli	, derive ned by assifica	d by av the cor ition as	nmittee signed	e/autho by the	rs of comr	"Green nittee/a	Book". uthors	of "Green I										
Green B	ook I	Repla	cemer	nt Cos	t = Cos	t to acc	quire la	rgest "o	comn	nonly av	ailable	" (48"-box)	mittee/auth at local nui port from nu	rsery, ave	raged out	by "Greer			e. verhead, pr	ofit, etc		
Installed Unit Tree (A)TAa =	e Cos	st = C	alculat	ed for	each "(Group"	by "Gr	een Bo	ok" c	ommitte	e.	tional area	s of all trun	ks that co	htribute to	the canor	by in equal	percer	ntages.			
													nce trunk fo					1	-			
																				eing less than	its rate of increas	e in TA".
													aised tree a ize), then n						·	t a smaller spe	cimen from a nur	sery.
Basic Tr	ee Co	ost = :	Sum o	f the In	nstalled	Tree C	Cost plu	is the q	uotie	nt deriv	ed fron	n multiplyin	g the Unit T	ree Cost	times the	Trunk Are	a Increase	(Ln 12	X Ln 10 +	Ln 9).		

		Ŵ	Wa	alte	r L	evis Arbo	SON		.ppr	aisal	Wor	ksheet,	675 Alr	manor,	Sunny	vale, (Californ	iia 10)/5/2015	5		
	Ln 1		Ln 2	Ln 3	Ln 4		Locati	ion		Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11	Ln 11.1	Ln 11.2	Line 12	Line 13	Line 14	Line 15
Tree #	Name (Initials)	"Green Book" Page	Condition	Diameter	Location %	Site	Contribution	Placement	"Grn BK" Group	"Grn Bk" Species	'Gm Bk" TA,	"Green Book" Replacement Cost	'Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	>30" ATAa	La _{iner}	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
										-			, and Locati 000. Else ro		•				ın \$5000.			
ote =	for ex	isting	rees w	hich a	re still :	smaller	than t	he typic	cal nu	rsery's	24-inch	1-box speci	men, the sr	naller nurs	sery speci	men's cos	t has been	substi	tuted into th	e "Basic Tree	Cost" cell.	

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Tree Tag # To be Removed Per	Current Site Plan Author Recommands Ramoval Due to Very Poor	Condition or Elevated Risk of Failure	trank i (in.)	Trunk 2 (in.)	Trunk S (In.)	Trunk 4 (In.)	Trunk 6 (In.)	Trunk 6 (in.)	Adjusted Trunk Olameter Inches © 34" A.G. (1+2-3+4+3)	"Protected Trea" per City of Stomyrate Cidinance (12,1* singla, cr 36" mutheten, gt 46" sbore grade)	Common Name	Scientific Nama (Genus, species)	Height and Canopy Spread (II.)	Health & Structural Rations (9-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lapaided Canopy (Direction Noted)	Trunk Lean (Diraction Koled)	Historicai Stem Spillout Evidence (Kate Elevation)	Topped or Severely Pruned in Past	Burlad Root Crown (BRC) or Girdiing Roots (GR)	31em Decay (Hole Elevetion)	Codominant Mainstems with Severe Burk Inclusion(s) (Note Height)	Root Extension Restricted In Planter	Roots Damaged on Grade from Mowing	Soil Maleture Oeffett ("Drought Stress")	Noize	R commendations
1			7.0						7.9	no	srepe myrtle hybrid	Lagerstroomia (Cuit)	20/13	88/79	78% good	good						2 foet			X		Rook damaged on girda.	W, TB, RPZ
2 X			7.8						7.8	no	crspe myrtle hybrid	Lagarstroem/a (Cull)	20/15	80/75	79% good	good									x		Racht damaged en grade.	
3 X			6.3						6.3	no	oak species (probsbly Quercus rubra which is red oak)	Quercus ap. (likely Q. subra)	1R/16	30/77	85% good	good											Needs structural training provideg if tree is relations.	
4 x			5.0	5.0	4.0	3.0	3.9	3.0	23.0	on	crepe mytle hybild	Legerstroomis (Cull)	20/13	80/50	78% good	good							st 5 inches elevation					
8 x			3.0	3.0	3.0	3.0	3.0		15.0	90	crepe myrtle hybrid	Lageratroemia (Cull)	18/10	80/55	86%, fair	good							al 6 inches elevation					
6 X			4.0	4.0	4,0	4.0	3.0		19.0	no	urepe myttle bybrid	Legeratroemia (Cult)	23/11	Galag	78% good	good							at 8 inches elevation					
7			B1.1						\$1.1	yes	coast redwood	Sequola sempervirens	115/45	75/75	75% good	moderate to good								x	x	x	Wide codominant mainstems fork at 80 feet. Suggest install cable or remore one of the two mainstems at the fork Increase infiguilion. Note roots damaged on grada.	Cable, or remove one of two main stems at 89 feet W, TB, RPZ
8 X			18.8						18.9	yes	European birch	Betuls penduls	30/25	35/35	35% poor	peor		SE	92 U							x	Located to indystal furt.	
• x	×	x	7,9						7.9	no	crepe myrtle hybrid	Lagerstrosmia (Cult)	24/20	80/20	25% very poor	moderate	w						al 8 fest				Nigh risk of codominant mainstem spillout, Recommend remove tree,	
10 X			24.8						74,5	Yes	coast beetwood	Cozuzrina stricta	65/35	80/40	50% fair	good							at 30 feet		x	x	Tree in inigated tort, Roote damaged on grade. Use cabling and/or though-both bracing if tree is relationd.	
11			41.3						41.8	yes	cossi radivood	Seguale sempervirens	85/35	80/70	75% good	moderate Io good	5								×	x	Trev in krigstird burf. Roots dameged on grade.	W. TB, RPZ
12			61,8						51,8	yes (note this tree measured at bulgs which increased the apparent trunk diameter at 4.0 fest elevation)	coasi (edwood	Seguola sempervirens	105/35	80/75	79% good	moderate boog ol									x	x	Tree in krigeted turf, Roots damaged on grude,	W, TB, RPZ
13		7	75.7						75.7	yws	coasi redwood	Sequois sempervirens	125/30	65/80	89% gaod	good	٣	SE								x	Located in inighted by groundcaver even (Metch Hitchy System Essement)	Maintain existing tence protection and stigation, May need to sugment fencing with additional chain link panels,

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Tree Tog # To by Removed Per	Current She Plan Author Recommends	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Trunk 1 (in.)	Trunk 2 (In.)	Trunk 3 (in.)	Trunk 4 (In.)	Trunk S (In.)	Trunk 6 (in.)	Adjuated Trunk Dlameter Brens @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Sumryade Ordinance (13.1" emingle, or 38" multiseren grade)	Common Name	Scientific Name (Genus, species)	Height and Canopy Spread (K.)	Health A Structural Ratings (0-130% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lapsided Canopy (Direction Noted) Trunk Lean	(Direction Noted) Historical Stam Splitout Evidance	(Note Elevation) Topped or Severely Prumed in Past	Butted Roat Crawn (BRC) or Girdling Roots (GR)	Stern Decey (Note Elevetion)	Codominani Mainafema Wilh Savera Bark Inteusion(e) (Note Height)	Root Extension Restricted In Planter	Roots Damaged on Grade from Moving	Soil Moleture Deficit ("Drought Stress")	Notes	Recommendations
14			36,5						38,5	y+=	cass sedwood	Sequola sempervirens	116/30	75/75	75% good	moderate lo good									x	Localed in inighted by graphdoover area (Helch Helchy System Banntent)	Ministan existing Innce protection and Irrigation. May need to sugment lencing with additional chain link punels.
15	x (enDD	gest removalj	əst. 24						est. 24	¥ts	Montorey plas	Pinus radiata	45/30	\$6/50	50% fair	poor to moderate		6							x	Recommend removal of two If condition declines below current 36%, overall condition rating.	
18	ĸ		35.0	38.0	30.0				102.0	yee	shamel ash	Fraxinus uhdel	45/55	85/50	53%, fair	poor to moderate						3 (201			x		-
17	•	x	43.1						43.1	yes	shamel ash	Fraziaus undel	45/45	30/40	35% poor	poor				GR					x		-
18			43,3						43.3	yes	shamel ash	Fraxinus uhdel	45/35	50/50	55% fair	moderate	E	E							x	Crowded codominant mainsiems fort al 8 feet.	W, TB, RPZ
19)	,		8.3	6.5					12.3	σa	European birch	Betule pendula	35/10	70/70	70% good	moderata							x		x	Tree is inigated. Roots damaged on greds.	-
20)			12.7						12,7	ysə	European birch	Betuia pendula	45/17	\$5/45	53% fair	moderate						at 11 Jesi	x		x		
21 2			9,8	8.1					17.9	по	European birch	Beivia pendula	35/20	80/43	50% fair	moderate	S 5					st grade elevation	x		x		_
22 X			7,5						7,5	no	European birch	Bstvia pendula	38/12	60/55	57% tair	moderate	E f						x		x		
23 X			11,8	10,7					22.3	ħø	European birch	Betula pendula	46/20	85/35	50% fair	moderate	w					at 12 Inches elevation	x		x		-
24 X			7.0						7.0	80	European birch	Belvia pendula	30/13	65/65	SB% fair	moderate							x		×		_
25 X			18.5						18.0	yes	London plane cultivar	Platanus x ecerifoiia(Cuit.)	35/35	80/75	78% good	moderate										Summer powdery mbdew fungus is occurring on this tree, indicating that this cutifier of plane tree is susceptible to This disease.	-
25 X			14,7						14,7	yes	London plane cultivar	Platanus x acerifolia(Cult.)	30/30	75/75	75% good	moderale							×			Summer powdery mildew lungue (» occurring on this tree, indicating that this cultiver of plane tree is susceptible to this divese.	-
27 X			7.4						7.4	no	London plane cultivar	Platanus x aceritolia (Cuit.)	25/20	60/70	57%, tair	роют										Bummer powdery mildew fungue is occurring on this tree, indicating that this colliver of plana tree is susceptible to this disease.	-

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Trea Tag d To be Removed Pat Current Site Plan	Adhor Recommends Remoral Due to Very Poor Condition or Elevated Risk of Pailure	Trunk 1 (In.)	Trunk 2 (In.)	Trunk à (in.)	Frunk 4 (in.)	Trunk 6 (IA.)	rruns a (n.) Adjusted Trunk Dismeter	(1+2+3+4+0)	-Protected Trans. per City of Sumpyrate Ordinanca (12.1* elogy, or 3 mutiterian, at 4* above grade)	Common Name	Scientific Name {Genus, species)	Height and Canopy Spreed (11)	Health & Structural Relings (0-100%, esch)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopelded Canopy [Direction Noted]	Trunk Lean Direstion Noted)	Historical Stem Splitour Evidence (Note Elevation)	Topped or Savaraly Pruned in Part	Burled Roat Crown (BRC) or Girdling Roats (GR)	atem Decay (Note Elevation)	Codominant Mainateme with Severe Bark Inclueion(e) (Nore Height)	Root Extension Restricted in Planter	Route Demiged un Grede from Mowing	Soși Molenure Dellch ("Grought Stress")	Notas	Recommendations
28		11,0					,		ne	London plane cultivar	Platanus x acerifoila(Cuit.)	28/25	80/50	80% good	moderate to good												W, TB, RPZ
29		30,4					3		yes	coasi redwood	Sequola sompervirens	35/30	40/40	40% poor	polor								×		×	Ectrame soil mobilizer deficit, Free could improve II break out the pavement and curb meterials, provide the tree with larger open soil root zone area, and heavily inframe the nost zone from now enserd.	W, TB. RPZ
30 X		10.8					1		no	London piene cultiver	Platanus x acertiolia (Cult.)	30/23	75/75	75% good	moderate	E										Summer powdery mildew lungus is accurring on this tree, instituting that this cultiver of plans tree is euscryftible to This disease.	-
зя х		9,7						л	no	London psine cultivar	Platanue x aceritolia(Cult.)	30/25	80/75	78% good	moderate	E										Summer powdery millew kongun is accurring an this tree, indicating that this cultiver of plane tree is essentiable to this disease.	-
32 X		26.9	22.4				4	3	yes	shamel ash	Frexinus uhdel	40/40	43/45	45% poor	povor							at 2 feet and other elevations above grade.			×	Tree could improve if break out the pavement and curb materials, provide the tree with larger open soil root cone area, and heavily inrigate the root zone from now conward.	-
33 X		43.1					4	L1	y#3	əhamei aəh	Frazinus uhdei	45/35	\$5/60	84% Fali	moderate to good	5						various sisvations			×		_
34 х		38.8					3	e	yes	shamei ash	Fraxinus ohdei	45/55	89/39	55% fair	poor to moderate										x		-
35 X	x	33.7					3:	.7	y = 3	shamei ash	Fraxinox uhdel	45345	20/20	20% чегу рост	very poor						throughout Tree				x	Author recommands removal due to very poor overall condition rating. Tree to be removed per alls obse.	-
36 X		33,2					31	.2	yes	shamelach	Frexinus undel	50/55	45/45	45% paor	poor						Ihroughout tree				x		-
37 X		28,3					21	.з	yez	coast redwood	Sequola sempervirans	49/25	75/85	70% good	moderate		5								x		
38		28.2					21	.2	yzs	coast rethrood	Sequoix scopervirons	45/20	75/75	75% good	moderate										x	New esterior foolprint will be approx. 19 to 12 feet from frunk edge, which may result in severe impacts to Hois tree to forms of above and below ground free demages. May need to remove free,	W, 78, RPZ
38		17,2	12.8				30	•	yes	coast redwood	Seguola sempervirana	40/18	35/35	35% poor	9007						throughout tree	zero lo 3 feet elevation above grade			x	New exterior footprint will be approx. 19 to 12 feel from from kedge, which may result in severe impacts to this tras in terms of above and below ground free damages. May need to remove lice.	W, TB, RPZ
40 X		6.8					s.		no	shemel ash	Fraxinus uhdei	23/9	85/75	78% good	good												
41 X		8.4							no	nfantari ush	Frazinus uhdel	23/9	85/73	78% good	good												

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tea Tag #	wed Per • Plan	ommende Je to Very Poor r Elevated Risk	_						nk Diameter ' A.G.	"Protected Trad" per City of Sumyvels Ordinance (T2.1" elingle, of 30" multisers	Common Name	Scientific Name	napy Spread	-	9 .2	ath or, Mod,	à î	Ē	s Splitouri 13	î	own (BRC) Ms (GR)	-	dinatem e Tk	Restricted	on Grade	ŧ.		F
Ę	To be Removed Per Current Ske Flan	Author Recommends Removal Due to Very P Condition or Elevated F of Fallure	Trank t (In.)	Teunk 2 (In.)	Trunk 3 (In.)	Trunk 4 (In.)	Trunk 6 (In.)	Teunk 6 (In.)	Adjusted Trunk Diams mahes @ 84" A.G. [1+2+3+4+9]	"Protected T of Suppress [12.1" single multisem, an grade)		(Genus, species)	Height and Cr (RL)	Heelth & Struc Retiage (0-100% eech)	Overalt Condition Rating (6-100%)	Live Twig Density (Very Poor, Poor, Good, Exc.)	Lapelded Canopy (Direction Noted)	Trunk Lean (Direction Note	Historical Stem 8p Evidence (Note Elevation)	Topped or Severely Pruned in Past	Burisd Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Rote Elevation)	Codominant Main With Severe Back Inclueion(e) (Note Height)	Root Extension In Planter	Roots Damaged from Mowing	Soll Moleture Deficit ("Orought Strees")	Kotse	Recommendation
42			15.7						15.7	y to	coast redwood	Sequela semparvirens	55/18	55/55	53%, fair	poor to moderate		N							4	×		W, TB, RPZ
43			•s1, 30	est. 22			 		es1. 52	yes	coast redwood	Seguola sempervirenz	55722	75/80	70% good	moderate to good							zero to 5 feet elevation above grade				,	W, TB, RPZ, Cable Installation by Rn ISA Cetified Arborist
4	×		26.4						28.4	yes	coast redwood	Sequoix sempervirens	50/18	79/65	683: tair	poor to moderate								7		×	Brreigs southeast (avera p Luni, form).	
45	x	×	34.1						34.1	yes	silk oak	Grevilies robuste	\$5/35	\$5/30	35% poor	poor to moderate	sw		x	x				x			Poor specimen that about doe removed from alle, even if the project is not built.	
45			18.8						15.0	yes	coast redwood	Sequala sempervirena	35/18	40/40	40% poor	poar										x	Tree appears to be univigated. To be removed per plan.	W, T8, RPZ
47	x		31.8						31,8	y#9	siik oak	Grevilles robusta	50/20	40/50	44% poor	poor to moderate			×	x						x	Poor spectmen that should be removed from oils, even if the project is not built.	
48	x	x	20.8						20.8	yes	sijk oak	Grevilles robusts	\$0/25	30/28	25% very poor	poor			×	x	GR					x	Very poor spectmen that should be removed from alls, even if the project is not built.	
49	x		29,3						29.3	yzə Isagured al 2 feet efsiyation)	atlaş cedar	Cedrus atlantics	<u>60/35</u>	83/90	84% good	good						1						
50	x		11,9	10,0	10.0	10.0	.0		59,0	yes	European olive	Olea surapaea	39/25	40/35	37% poor	poor to moderate	5			x	1	hroughout tree				x	Tree experimency terms allowed; assumably experiment with back of proper infusion, and extended drought exections. With the sector of the water of the sector of the baland for construction period monitoring. WILA will be testing soil modeline and making specific recommodation excerdingly.	
51	x		25.6						25.6	yes	coast redwood	Sequoia sempervirens	45/25	38/35	35% poor	poor								x		x	Tree could improve if break out the payment) and curb materials, provide the tree with lenger open soil coul zone area, and beavily ingrise the root zone from now correct.	
52 Notes:			12,8						12.8	yes	coast radwood	Sequois sempervirens	20/10	75/55	80% fair	moderate								x		x	Tre could improve II break out the persmant and carb materials, provide the tree with larger open soil root zone arma, and heavily irrigate the root zone from now onward.	

WLCA surveyed only these tree specimens within the bounded area denoted by a heavy black line on the tree map markup attached to the arborist report.

. Diameters were measured at 4,0 feet above grade using a forestry D-lape that converts circamference to an average diameter. Math-stem specimens such as the crepe myrtles were estimated visually.

. Heights is the taller specimens were measured using a Nikon 550 Forestry Pro digital hypsometer.

. Appraisal valuation was performed using trank formula method and western chapter International Society of Arboriculture texts for species classification data and group assignment data, etc. See attached appraisal worksheet for transparent calculation data,

rotection and Maintenance Specification Codes (If Applicable):

Projections and Fauntistances Spectrements and construction. Projections and Fauntistances Spectrements (Spectrements): PP2: Rest protocolism non faces, Able link, why Fauncis (Spectrements, Paunets): PP3: Rest protocolism non faces, Able link, why Faunets (Spectrements, Paunets): PP3: Rest protocolism non faces, Able link, why Faunets (Spectrements, Paunets): PP3: Rest protocolism non faces, Able link, why Faunets (Spectrements, Paunets): PP3: Rest protocolism non faces, Able link, why Faunets (Spectrements, Paunets): PP3: Rest protocolism non faces, Able link, why Faunets, Bale Link, Bale Link, Spectrements, Paunets, Able Link, Ward Paunets, Paunets, Able Link, Ward Paunets, Paunets, Able Link, Ward Paunets, Paunets, Bale Link, Spectrements, Paunets, Paunets