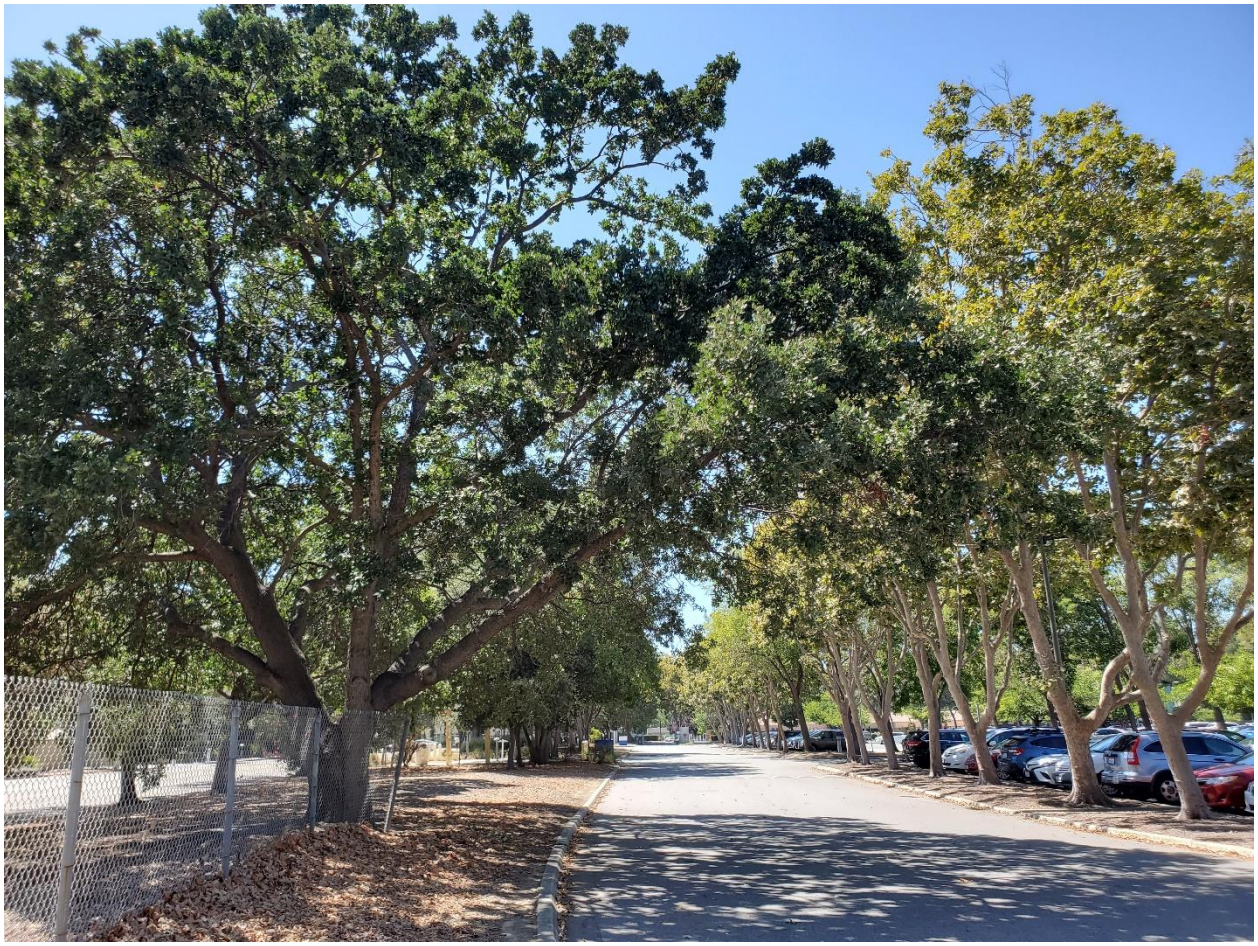
Appendix D
Updated Arborist Report

ARBORIST REPORT FOR SAN JOSE INDUSTRIAL PARK
2150, 2222, 2350 Qume Drive, San Jose



September 10, 2021 (updated 1/27/23)

Prepared for:
Jesse Markman
JETT Landscape Architecture + Design
2 Theatre Square Suite 218
Orinda, CA 94563

By: Jennifer Tso
Traverso Tree Service, Inc.
4080 Cabrilho Drive
Martinez, CA 94553
Board Certified Master Arborist #WE-10270B
Tree Risk Assessor Qualified

TABLE OF CONTENTS

SCOPE OF WORK

This arborist report addresses the proposed industrial park project, encompassing 2150, 2222 & 2350 Qume Drive. Per the City of San Jose's Tree Removal Ordinance Chapter 13.32, the scope of work includes:

- Tag, identify and measure all trees on or overhanging the project area that may be affected by proposed construction.
- Note any ordinance-sized or heritage trees, if present. Ordinance-sized trees are single-trunked trees with circumferences $\geq$ 38" (~12" diameter) at 4.5' above grade and multi-stemmed trees with a combined trunk circumference $\geq$ 38".
    - Heritage trees must be specially designated, and a list of such trees are available on the city website. **There are no Heritage trees on the site(s).**
- Assess proposed improvements for potential encroachment.
- Based on proposed encroachment, tree health, structure, and species susceptibility, make recommendations for preservation.
- Provide above information on a Tree Protection Plan, to include: tag #s, approximate dripline, whether a tree is removed or preserved, tree protection fencing locations, and tree protection recommendations.

ASSUMPTIONS & LIMITATIONS

This report is based on:

- Tree assessment site visits that occurred in August of 2021 and on 1/12/23
- On-site meeting with Russell Hansen (San Jose city arborist) and design team on 10/27/22
- Preliminary landscape plans by JETT Landscape Architecture + Design dated 11/28/22
- Survey by Kier + Wright dated April 2021 (updated 9/3/21 with trunk locations)

I assumed that the trees and proposed improvements were accurately surveyed. A small number of trees were not located during the survey, mainly off-site trees that could not be tagged – these were approximately located on my tree protection plan. I did not review any other plans, including drainage, utility, etc. The recommendations in this report thus may need to be revised once more detailed plans are available.

Tree preservation focuses on keeping healthy specimens that can thrive for decades after property improvements are completed. The priorities of the client, Bridge Industrial, differs on this particular project, with the main goal of preserving as many trees as possible regardless of existing condition. Thus, tree protection measures are also provided for trees that would ordinarily be removed. These protection measures are intended to reduce impact but do not guarantee that the trees will survive or thrive after construction is completed. Additionally, the ultimate decision as to whether 20 trees were retained or removed were made by the design team, independent of my review. These are individually noted in the attached tree inventory table. Additional trees may be removed or saved depending on design adjustments that will follow.

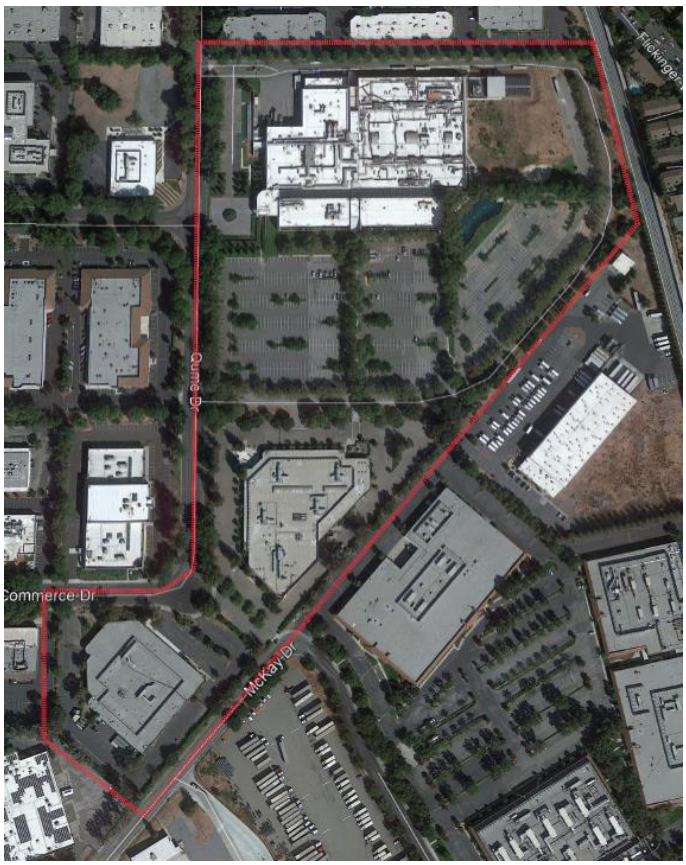


Figure 1. The subject property encompasses three parcels on Qume Drive, highlighted in red. Most landscaping & trees are limited to small planting areas.

The health and structure of the trees were assessed visually from ground level. No drilling, root excavation, or aerial inspections were performed. Internal or non-detectable defects may exist and could lead to part or whole tree failures. Due to the dynamic nature of trees and their environment, it is not possible for arborists to guarantee that trees will not fail in the future.

PROJECT SUMMARY

Site overview

The property consists of three parcels with addresses 2150, 2222 & 2350 Qume Drive (Figure 1, hereafter collectively referenced as "the property"). BART tracks run by the northeast end of the property, while the rest of the site is bordered by industrial and office parks. Presently, the property is developed with an office park complex that is home to a biotechnology company. An existing telecommunications area is found at the northeast corner of 2222 Qume Drive.

As is typical of office parks, the buildings & hardscape comprise the majority of the total surface area. Landscaping is restricted to small planters or narrow landscape strips, many of which are over-planted with trees. Undeveloped patches of landscape by the telecommunications area and along the northern half of the east property line have allowed volunteer trees to establish, in contrast to the deliberately planted trees throughout the rest of the property. Of the 702 trees I assessed, 349 trees meet the city's criteria for an Ordinance-sized tree. Since many off-site trees overhang the subject property, those trees were also assessed and included in my review. There are 26 species (not including cultivars), with only three species comprising 60% of the total. Recycled water is used for landscape irrigation throughout the property.

Proposed improvements

The proposed project will demolish nearly everything (buildings, hardscape, trees, utilities) on the property to construct a warehouse complex. Each parcel will have a large warehouse surrounded by loading areas, drive aisles, parking lots, and stormwater retention basins. New landscape areas and walkways will be distributed across the property in the remaining areas. The city is also requiring 10' wide sidewalks along Qume, Commerce & McKay Drive, part of which will extend into the existing road. Significant disturbance will be required throughout the entire site, resulting in high encroachment on the majority of the trees.

Based on the provided information, the tree encroachment may be as follows:

- *Removals:* I anticipate that 577 trees (263 Ordinance-sized trees) will need to be removed. This is a decrease of 43 trees, compared to the preliminary 2021 design.
    - Of the 577 trees, it should be noted that 29 trees (including 21 Ordinance-sized trees) are either dead or in very poor health - they should be removed regardless of construction.
- *Potential removal:* The design will be adjusted around five additional trees with the goal of saving them. If this is not possible, the trees will need to be removed.
- *Preservation:* 125 trees (87 Ordinance-sized trees) will be kept, and they will be subjected to varying degrees of encroachment.
    - Five of these 125 trees are in decline and will continue to decline regardless of construction, so the project impacts may accelerate their decline.

SITE DISCUSSION

Species diversity & discussion

Twenty-six species are found across the three parcels. The most common species include evergreen ash (*Fraxinus uhdei,* 27% of total), followed by London planetree (*Platanus* x *hispanica*, 22%) and mulberry (*Morus alba*, 12%). Native species consist of coast live oak (*Quercus agrifolia*), valley oak (*Quercus lobata*), and elderberry (*Sambucus* sp.), comprising only 4.4% of the total population. The table below lists all the species and their contribution to species diversity.

Table 1. Species diversity

Common name	Botanical name	# of trees	% of total
Evergreen ash	*Fraxinus uhdei*	188	26.78%
London planetree	*Platanus* x *hispanica*	156	22.22%
Mulberry	*Morus alba*	85	12.11%
Coast redwood	*Sequoia sempervirens*	46	6.55%
Holly oak	*Quercus ilex*	43	6.13%
European hornbeam	*Carpinus betulus*	31	4.42%
Evergreen pear	*Pyrus kawakamii*	29	4.13%
Water gum	*Tristaniopsis laurina*	29	4.13%
Coast live oak	*Quercus agrifolia*	17	2.42%
Valley oak	*Quercus lobata*	13	1.85%
Chinese elm	*Ulmus parvifolia*	9	1.28%
Ironbark eucalyptus	*Eucalyptus sideroxylon*	8	1.14%
Eastern redbud	*Cercis canadensis*	7	1.00%
Olive	*Olea europea*	6	0.85%
Red oak	*Quercus rubra*	6	0.85%
Ginkgo	*Ginkgo biloba*	6	0.85%
Deodar cedar	*Cedrus deodara*	5	0.71%
Peppermint eucalyptus	*Eucalyptus nicholii*	4	0.57%
Crape myrtle	*Lagerstroemia* CV	3	0.43%
White birch	*Betula pendula*	2	0.28%
Callery pear	*Pyrus calleryana*	2	0.28%
Mayten	*Maytenus boaria*	2	0.28%
Japanese maple	*Acer palmatum*	2	0.28%
Elderberry	*Sambucus* sp.	1	0.14%
Camphor	*Cinnamomum camphora*	1	0.14%
Himalayan birch	*Betula jacquemontii*	1	0.14%

Although the ashes & London planetrees collectively make up half of the total tree population, this is achieved via over-planting & crowding of small landscape strips. As the trees compete for space, they are more likely to encroach upon and cause damage to adjacent hardscape. As an example, a walkway on the north parcel runs in a north-to-south direction to connect the buildings on 2150 & 2222 Qume Drive. It winds around several landscape strips which are packed with trees - I counted 7 young-mature ash trees crammed into a single 15’ x 55’ landscape strip (Figure 2). Evergreen ashes have the potential to reach several feet in trunk diameter - a planting area of this size would support at most one full-sized specimen. Their roots have now grown under the concrete and asphalt, only to be damaged during repeated repair or replacement procedures. The competition for resources and light not only stunts the trees, but it also leads to poorly structured trees with asymmetrical canopies. Their structural issues are further exacerbated by poor pruning practices.

Existing conditions

The existing landscapes do not appear to be properly maintained as far as the trees are concerned. Pruning practices include lion's-tailing (removal of interior foliage), excessive removal of lower branches (canopy raising), and clearance pruning from buildings. Root damage from lawnmowers, string trimmers and hardscape repair are a common sight due to the co-existence of trees & lawn and/or hardscape. Insufficient irrigation is a problem for the trees in the smallest parking lot planters, especially the mulberries. This tree species is known for its dark green, vigorous & dense canopy; on this site, most of the mulberries are stunted, with branch dieback and sparse & yellowed foliage. Even so, they are causing significant damage to the parking lot, lifting curbs and parking spaces well above the surrounding grade.

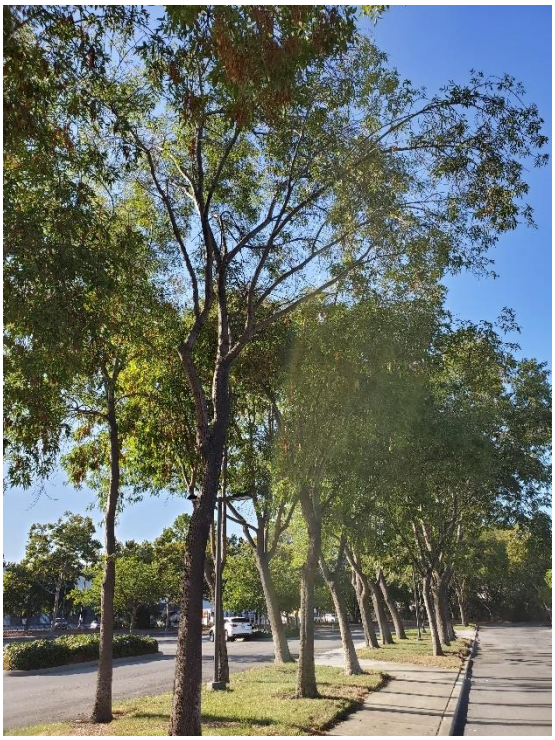


Figure 2. The ashes are packed together in landscape strips surrounded by hardscape (tree #142 in foreground). Repair of adjacent walkways has damaged the roots of many trees, resulting in sparse canopies and declining branches.

I also noticed purple pipes throughout the three parcels, indicating the use of recycled water for irrigation - an increasing occurrence in water conservation landscapes. Standard water treatment methods do not remove salt from recycled water, leading to elevated salinity. Different plant species have different tolerances to salinity, and the use of recycled irrigation water increases the salt content in the soil. If the salts are not flushed out by rainfall or irrigation with potable water, they can cause damage to plant roots. Damage may occur directly via toxic salt concentrations, or it may be indirect by making it harder for roots to pull in water from saline soils. Coast redwoods (*Sequoia sempervirens)* are known to be highly sensitive to salt – all the redwoods on 2222 Qume Drive are showing symptoms of severe salt damage (Figure 3). The rainfall from our recent storms may temporarily ease salt stress by "rinsing" or leaching the salt out of the soil, but the continued use of recycled water will simply increase soil salinity again.

The healthiest trees are found in the largest landscape areas where minimal disturbance has occurred. This includes the areas next to the BART tracks and the telecommunications area. The native oaks are doing particularly well, which is expected since they are accustomed to dry summers and typically do not require supplemental irrigation. Even non-native species in these areas have proliferated, with young specimens germinating into small trees. The largest & oldest tree (#542) is found in one of these landscape sections, next to the telecommunications area. Nicknamed "Mama Oak" by the design team, this valley oak measures 65" in diameter and is in good health. The neighbor has pruned back large limbs from the property line, resulting in major stubbed branches. Of more concern is that the grade was raised with fill soil around the tree – this occurred when the property was developed. Fill soil holds moisture against the trunk, creating a favorable environment for wood decay organisms. Wood decay organisms can affect the health of a tree, but may also be "invisible" while it degrades wood and reduces the strength of the trunk and branches. Even if the canopy seems healthy, decay may advance to a significant degree. Advanced investigation and mitigation work is highly advised for this oak given its maturity and high profile; this tree is discussed in detail later in the report.

CONSTRUCTION IMPACT DISCUSSION

Trees are not commonly thought of as infrastructure, but they provide a multitude of benefits to the immediate property and greater community. The benefits include but are not limited to such as stormwater mitigation, erosion control, and animal habitat. Property improvements must be balanced with tree preservation to maintain trees in good health so they can provide benefits for decades after construction has ended. Construction practices such as grading, excavation, and compaction can affect both the structural stability and health of trees growing near the project area, sometimes at distances much further from the trees than commonly expected. Preservation starts with selecting the right trees – specimens in good health with strong structure. Atypically, this project will retain some trees that are recommended for removal.

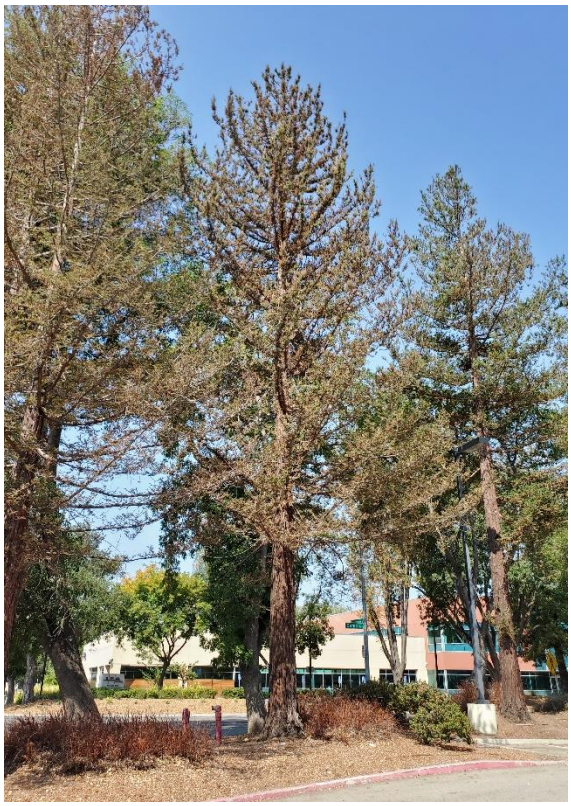


Figure 3. The redwoods (#648 at center) are highly sensitive to salinity and are suffering from recycled water damage. Unless there is a switch back to potable water, the trees would likely not recover.

Root encroachment

Structural stability may be compromised when grading or excavation occurs within a tree's structural root plate (SRP), or the area adjacent to the trunk where the majority of the tree's largest supportive roots are found. Excessive removal of roots within the SRP may increase the likelihood that the entire tree will fail. The approximate SRP is generally used as a baseline for reviewing encroachment. Additional factors such as tree condition, species tolerance, and proposed impact are further considered in determining which trees can tolerate the proposed construction and provide benefits for years to come.

Construction occurring beyond the SRP will still impact smaller absorption roots. These roots tend to be concentrated in the upper 4"-6" of soil where oxygen and water is readily available. Excavation has a direct impact by detaching existing roots, while compaction has an indirect effect by increasing soil density and decreasing available soil space for air, water and root growth. Additionally, fill soil is added to change the final surface elevations. The soil is often compacted for stability, but even if it were loosely added, it increases the depth that air and water must travel before they reach the roots. Installation of utilities and building foundations typically require excavation or compaction through the entire depth (3') of a tree's root system. Hardscape may also have an unexpectedly high impact, especially in drive aisles where the soil must be compacted to a 90% density. Extensive construction disturbance essentially decreases a tree's ability to obtain enough water or air to survive.

Complications from existing development

If the site is already developed, existing features further complicate the process of determining the impact of the proposed improvements on existing trees. Roots are less likely to grow under unfavorable conditions created by hardscape or foundations. Over time, root encroachment increases as the man-made materials weather and allow water penetration. Underground utilities also alter root growth in ways that are not visible unless the roots are deliberately exposed for review. When trenches are dug to install or repair utilities, roots are cut in the

process. In general, it is not possible to know where roots are growing until excavation occurs. On smaller projects, accurate impacts may be determined before construction by digging a trench to locate tree roots. The design can then be adjusted to accommodate larger roots that cannot be cut without negatively impacting a tree. Unfortunately, preliminary work is not cost-effective on a project of this size – not only are there 700+ trees, most of their root systems are also masked by existing pavement.

Variation by tree condition, age & species
Trees vary in their resilience to construction impacts, based on their species and current condition. A younger healthier tree can tolerate more impacts like root loss and soil compaction, because they still possess the vigor to rapidly replace damaged roots. Conversely, a tree that is stressed is already growing at suboptimal levels, even in the absence of construction. Old trees are similar, they may only be growing foliage or roots at a maintenance rate, or even gradually losing them over time. Preserving older and/or declining trees requires a much larger undisturbed area than a young healthy tree. Otherwise, the pressure of construction activities may trigger permanent decline and death. Tree preservation on this project is challenging due to the sheer size of the buildings, parking areas, and stormwater treatment facilities. Even so, efforts have been made to expand future landscape areas where clusters of trees could be preserved.

Different species of trees also vary in their construction tolerance. Of the species found on the property, London planetrees, evergreen ash, and coast redwood are considered highly tolerant. Testaments to their durability can be seen across the site. Along Qume Drive and around landscape planters, the main roots of many evergreen ashes have been damaged right next to the trunk, yet they continue to be stable. I have witnessed similar treatment of London planetrees in urban areas, where their roots are regularly ground down for sidewalk repair.

Redwoods are also tolerant, but only when they are in good health. They are native to coastal areas where fog provides ample moisture, so they become drought-stressed when planted in hot inland areas like San Jose. The use of recycled water on this site further increases their stress, since redwoods are salt-intolerant. Because of their condition, the redwoods will be intolerant of additional construction stress.

Project redesign
There are non-changeable components of the project, including buildings, drive aisles, and parking areas. After reviewing the 2021 preliminary design, I provided recommendations on areas where the design may be more easily adjusted, mainly along the perimeter and in proposed landscape areas. The team was able to make fairly significant changes (given the site limitations) which resulted in preserving 43 additional trees.

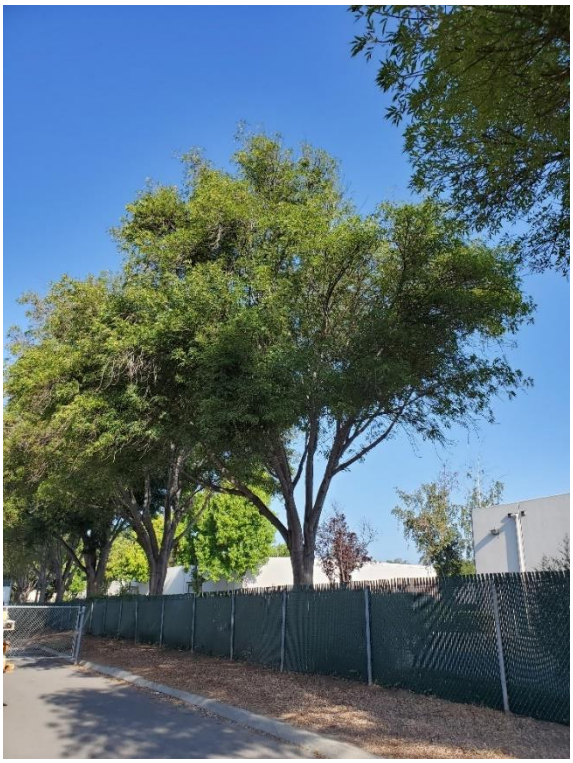


Figure 4. Proposed bio-retention basins were shifted further from the neighbor's trees (#12 above) along the north property line, and the new parking lot will be kept in a similar location to the existing lot.

An example of the changes includes the proposed parking lot and bio-retention basins along the north property line. Originally, the basins would encroach right up to the property line, which required the removal of the neighbor's trees (#1-30, Figure 4). The new design keeps the parking lot in a similar location to the existing parking lot. Instead of a continuous treatment basin along the entire property line, smaller separate basins alternate with the trees to reduce root encroachment. The contractors will still need to be cautious while excavating the basins, since they will likely run into large roots. I recommend having an arborist on site at the start of the excavation to discuss expectations and monitor a few basins. This is particularly crucial when working around trees that belong to other property owners.

Decomposed granite sidewalks

The City originally required 10' wide sidewalks along the southeast and west property lines. Large mature ashes and red oaks are located along Qume Drive, directly in the path of the proposed sidewalk (Figure 5). Because of their size and age, they require more space for preservation – simply narrowing the sidewalk width or shifting it further into the property would not be enough to save them. The City agreed to a compromise: 5' of the sidewalk could extend into Qume Drive, while the remaining 5' width would be constructed with decomposed granite. While decomposed granite can be installed around trees, its impact can be similar to that of other pavements. The installation process may damage roots to a similar extent, since a level surface is needed to place the granite. The fine texture of the material means that it can be heavily compacted; over time, the surface becomes resistant to air and water infiltration. Compared to the alternative of removing the trees, decomposed granite may be considered an improvement as long as some best-practices are followed. The degree of impact depends on whether there is flexibility in using these practices. Ideally, existing soil should be carefully removed with air or water excavation, not with tilling or grading equipment. Large roots ($\geq$ 2" diameter) growing throughout the sidewalk should be left intact, with the granite added and compacted around the roots.

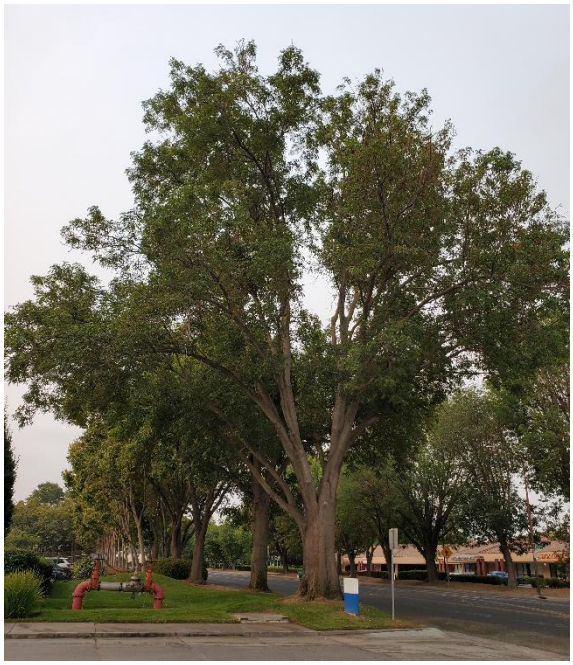


Figure 5. Several mature trees, including ash #440 above, were located in the proposed City-mandated sidewalk. The sidewalk is now moved halfway into the street, with the other half made of decomposed granite. Removal of the berm to the left of the trees will also impact their roots.

These Qume Drive street trees will also be subject to root damage on the opposite side (of the sidewalk). Existing berms run in a north-south direction between the trees and the future buildings. The berms will be graded down, requiring the removal of all the London planetrees growing on them. Additionally, the roots of the street trees have also grown throughout these berms and will be damaged during the grading process. Since these changes cannot be avoided, an arborist should monitor the grading and excavation processes around a few of these trees to verify that the contractor understands how to minimize root damage.

Two recently planted trees, #461 & 465, will be relocated on site. Once details on their location are provided, specific transplanting recommendations may be provided.

In total, the design changes have allowed for the retention of 43 trees throughout the site. Five of the 43 trees are not in an ideal condition for preservation - they already in decline and are likely to continue to decline after construction. Additional design changes are anticipated in later stages that may allow for the retention of five additional trees. Once the plans have been adjusted, additional tree protection recommendations may be provided.

Tree protection options
The key to maximizing a tree's tolerance of disturbance lies in maintaining good health leading up to, during, and after construction. The best option for preventing construction encroachment is to install temporary 5'-6' chain-link fencing along existing planters, to be extended to protect a greater area once the surrounding hardscape is demolished. Existing hardscape actually acts as a protective layer against the weight of construction equipment. Once the upper layers are removed, the newly exposed subgrade becomes more vulnerable to compaction and contamination. Additionally, signage with the client or arborist contact information should be secured to the fences, with a reminder to not move the fence without approval. (A sample sign is included as Appendix 1 at the end of this report.) Otherwise, the fences will be moved and the trees may be irreparably damaged.

I have noted ideal fencing locations on the tree protection plan that accompanies this report, purposely "in the way" of proposed changes. That way, the contractors are more likely to contact the client or arborist before adjusting the fencing.

In cases where root impact may be high, an arborist should be on-site to monitor work, at least in the beginning stages. Guidance can be provided to the contractors to ensure that they are able to carefully work around large tree roots. Thereafter, monitoring can be done on an as-needed basis, assuming that the same steps are followed (e.g. maintaining protection fencing, obtaining permission when fences must be moved, replacing fencing after work is completed).

VALLEY OAK #542 ("Mama Oak")
The existing telecommunications facility is located at the east side of the property between 2150 & 2222 Qume Dr. In addition to other native oaks, this space contains the largest tree on the entire property - a massive 65" diameter valley oak (tree #542, Figure 6). This oak is centuries old, existed way before the neighborhood was developed, and is doing well in spite of the structures and hardscape that have been built all around it.

The elevation of the parking lot appears to be higher than the original elevation of the tree. A tree growing in its natural environment has a pronounced flare at the base where the trunk transitions into the roots (i.e. "root crown"). If the trunk remains the same diameter as it enters the ground, soil was likely added around the tree when the property was developed. Trunk wood differs from root wood; it is not accustomed to being belowground. When trunks are buried in this manner, the added soil holds moisture against the trunk and creates a favorable environment for wood decay organisms. Over time, the trunk becomes decayed and loses strength, even if the overall tree still appears healthy. I recommend performing a root crown excavation on this oak to restore the original grade and to evaluate whether its trunk has been compromised by decay. The excavated area around the trunk should not be filled back in. Instead, the grade around the tree should be gently tapered up to the surrounding landscape area.

This oak is irreplaceable. Because of its veteran status, every effort must be made to respect its surroundings and reduce impact. Accidentally damaging a tree of this age can trigger a slow descent into death, since it may not be growing actively enough to repair damage or replace lost foliage. As a blanket recommendation, every detail and change shall be passed through a consulting arborist, and a consulting arborist must be on-site for any ground-disturbing activities that occur within 60' of its trunk. The design shows minor changes around the tree, except for the conversion of the parking lot to landscaping. Even demolition of the existing hardscape can be detrimental if roots have grown underneath the parking lot. Chain-link fencing shall be installed around the planter area at the limit of grading, and additional fencing should be left on-site to expand the protected area after demolition. Pruning of the tree should not be done unless absolutely necessary for hazard reduction.

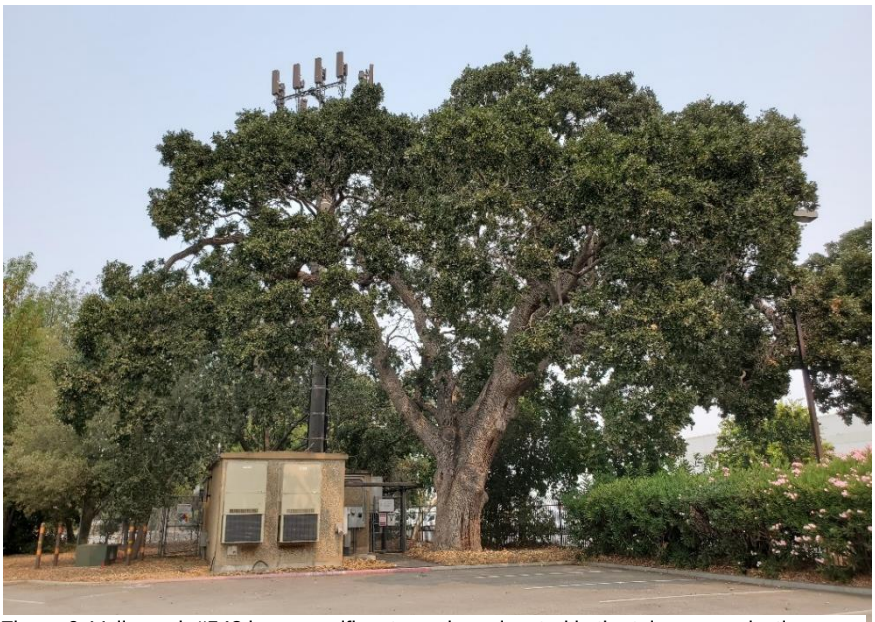


Figure 6. Valley oak #542 is a magnificent specimen located in the telecommunications area. Every effort shall be made to reduce encroachment on this tree, even when demolishing the existing parking lot. Changes must be reviewed by the project arborist, who will also monitor all construction activities around the tree.

The project will replace the parking lot with a much larger landscape area. In theory, this is excellent news for the oak. However, landscape construction can still cause root damage if done indiscriminately. Landscape specifications require that new landscape areas be tilled to loosen the upper 12" of soil, after which amendments are mixed in. Tilling damages all roots growing in the upper layers of the soil, especially when done with machinery. Trenching for irrigation lines and planting new trees similarly damage roots. Since the old oak has no tolerance for root loss, ground-disturbing work within 60' of the tree must be done with air- or water-assisted methods. Examples include air knifes (used by tree services) and hydrovac trucks (used for utility work). These options use compressed air or water to loosen soil around roots or pipes without causing damage. New pipes would then be threaded through large roots, and amended soil gently backfilled around roots. (Note: the root crown excavation can also be done at this time with the same tools.)

After the new landscapes are completed, a 4"-6" thick layer of coarse wood chips should be maintained throughout the landscape area around this oak. The tilled soil will be loose and airy, so the wood chips act as a buffer to prevent re-compaction of the soil. Wood chips also reduce water loss and gradually add nutrients to the soil.

TREE ENCROACHMENT SUMMARY

These numbers correspond to physical tags that were attached to tree trunks (except for off-site or inaccessible trees), for a total of 702 trees. A detailed tree inventory table with individual tree data is attached as an exhibit at the end of this report.

Trees to be removed (total: 577 trees): #1, 29, 31-51, 57-183, 195-197, 201-207, 213-221, 234, 236-432, 440, 442-444, 446-460, 462-464, 466-530, 549, 551, 554-572, 577, 578, 580-597, 603-636, 637-639, 642, 643, 645, 648-653, 655-666, 669-675, 681-683, 688-696, 698, 700-702

- Trees dead or in very poor health which should be removed regardless of construction (total 29 trees; 21 Ordinance-sized): #29, 60, 149, 171, 260, 369, 473, 481, 482, 569-571, 578, 585, 586, 606, 612, 629, 630, 643, 648-650, 659, 660, 669, 671, 682
    - The non-ordinance trees are: #29, 149, 171, 260, 606, 612, 659, 660
- Ordinance-sized trees proposed for removal (total: 263 trees): #1, 31-34, 42, 43, 46, 57-63, 66, 67, 69, 70, 74-77, 79-91, 95-101, 110-115, 117, 119-121, 131-136, 166-170, 172, 175, 176, 181, 182, 189-191, 195, 202, 205, 213, 215, 221, 234, 237-249, 251, 252, 262, 268, 282, 287, 289-304, 306-314, 317-320, 323-333, 335, 337-340, 344, 346, 347, 349, 350, 353-356, 359-361, 366, 369, 370, 375, 416, 420, 422, 423, 428, 440, 442-444, 454, 456-460, 463, 464, 466-468, 471-474, 477-482, 485, 486, 489, 495-497, 500-502, 504, 506, 509-514, 521-523, 529, 530, 551, 557, 559, 560, 569-572, 577, 578, 585, 586, 591, 593, 594, 616-620, 629-636, 637-639, 642, 643, 645, 648-652, 669, 671, 675, 681-683, 688, 689, 692, 693, 695, 698, 701, 702

Declining trees to be preserved (that will continue to decline; 5 trees): 28, 676-678, 684

Trees to be preserved (total 125 trees; 87 Ordinance-sized): 2-28, 30, 52-54, 56, 185-194, 198-200, 208-212, 222-233, 235, 433-439, 441, 445, 461, 465, 531-548, 550, 552, 553, 573-576, 579, 598-602, 640-642, 644, 646, 647, 654, 668, 676-680, 684-687

- Additional trees that may need to be removed if design is not adjusted: 55, 184, 667, 697, 699

This table summarizes the changes in tree preservation between the preliminary design in 2021 and the update in 2023.

	2021	**2023**	**Change**
Removals (ordinance-sized)	297	263	-34
Removals (non-ordinance sized)	323	314	-9
Total Removals	620	577	-43
Preserved trees	51-82 (includes 31 trees with undetermined fate)	125 (includes 5 trees that may need to be removed if design is not adjusted; 5 are likely to continue their decline)	-

TREE PROTECTION RECOMMENDATIONS

NOTE: tree protection recommendations shall be shown on site plans.

"Mama Oak" (tree #542)

Note: these recommendations are also found within the phases of construction, below, but are aggregated here due to the high-profile nature of this tree.

- The project arborist shall review all changes to plans and details around tree #542, throughout the design and construction process.
- The project arborist shall be on-site to monitor the demolition of the parking lot and any work occurring within 60' of tree #542.
- After demolition but prior to the start of ground-disturbing work by tree #542, the protection fencing shall be extended out to protect a larger area where the subgrade has been exposed.
- All ground-disturbing work (e.g. tilling, irrigation, planting) shall be done with air- or water-assisted methods in order to preserve roots of all sizes.
- Perform a root crown excavation to expose the original grade of the trunk and to evaluate the condition of the trunk. Do not backfill the excavated area. The grade shall be tapered to meet the surrounding landscape. (This can be done with the air/water-assisted methods during the landscaping phase.)
- Spread a 4"-6" thick layer of coarse wood chips throughout the landscape area once the new landscaping is completed.

Design Phase

- The project arborist shall review all changes to plans and details around tree #542, throughout the design and construction process.
- By tree #55, move drainage pipe to at least 6' from its trunk.
- By tree #184, expand the planter to provide 8' of undisturbed landscape area to the north and south.
- By trees #198 & 199, if feasible, shift proposed gate box to be equidistant from both trees and specify that the edges of the pad closest to the tree trunks must be dug by hand.
- By tree #667, relocate the pipe to at least 8' from its trunk.
- By tree #697, provide 6' clearance on one side of the tree and 10' on the other three sides.
- By tree #699: provide as much clearance from this tree as possible, then reevaluate. Due to the condition of the tree, it is likely to continue its decline regardless of the design changes.
- If feasible, specify the following for the decomposed granite sidewalk along Qume Drive:
    - Avoid damaging roots $\geq$ 2" diameter during excavation/grading. Air-assisted excavation may be needed to uncover roots before decomposed granite is installed.
    - Decomposed granite shall be installed and compacted around the large roots.
- If feasible, reduce landscape tilling depth (6" or less) to reduce root damage.
- Provide transplant locations for trees #461 & 465 so best practices can be provided.

Pre-Construction Phase

- A pre-construction meeting shall be scheduled with the project arborist and all relevant (sub)contractors to discuss tree protection recommendations and protocol.
- Remove the following trees: #1, 29, 31-51, 57-183, 195-197, 201-207, 213-221, 234, 236-432, 440, 442-444, 446-460, 462-464, 466-530, 549, 551, 554-572, 577, 578, 580-

597, 603-636, 637-639, 642, 643, 645, 648-653, 655-666, 669-675, 681-683, 688-696, 698, 700-702 (577 trees total, 263 of which are Ordinance-sized)
    - Trees #562, 563, 565 & 688 are off-site, their removal requires approval by the neighbor/tree owner.
- Prior to construction or grading, the contractor shall install 5'-6' chain-link fencing to construct a temporary Tree Protection Zone (TPZ) around each tree or grove of trees as indicated on the tree protection plan. Fencing shall be installed either as close to tree driplines as possible (i.e. at grading limit and far from trunks) or along the existing landscape planters.
- Place signage on the TPZ fencing with contact information for the project arborist and/or superintendent (sample sign attached as Appendix 1). The TPZ fencing is purposely located to be in conflict with proposed construction; the contractors shall contact the project arborist for permission to move the fencing before starting work.
- Many proposed TPZs will need to be expanded to protect a larger area after asphalt demolition is completed (refer to tree protection plan for specific areas). Additional fencing should be staged around these trees for post-demolition use; the expanded TPZ areas are shown on the Tree Protection Plan.

Demolition Phase

- The demolition contractor shall be cautious when removing asphalt that is lifted, e.g. by tree #679, whether it is obvious or not that the lift is caused by roots.
- For tree #542:
    - The project arborist shall be on-site to monitor the demolition of the parking lot within 60' of tree #542.
    - After demolition but prior to the start of ground-disturbing work by tree #542, the protection fencing shall be extended out to protect a larger area where the subgrade has been exposed.
- After demolition is completed, but before the next stage of construction, expand the Tree Protection Zone (TPZ) fencing as indicated on the Tree Protection Plan (refer to tree protection plan for specific areas).

Foundation, Grading, and Construction Phase

- The project arborist shall be on site to monitor all work occurring within 60' of tree #524.
- The project arborist shall be on site to monitor the start of the TCM/parking excavation around trees #2-27.
- The project arborist shall be on site to monitor the grading of the sidewalks and berms within 20' of the following street trees: #433-439, 441, 445, 640, 641, 644, 646, 647, 654.
    - Avoid damaging roots $\geq$ 2" diameter during excavation/grading. Air-assisted excavation may be needed to uncover roots before decomposed granite is installed.
    - Decomposed granite shall be installed and compacted around the large roots.
- If root pruning is appropriate, all roots $\geq$ 2" diameter shall be cleanly pruned with a handsaw or sawzall, immediately covered, and kept moist till backfilled.
- Pruning shall be performed by personnel certified by the International Society of Arboriculture (ISA). All pruning shall adhere to ISA and American National Standards Institute (ANSI) Standards and Best Management Practices.
- Should Tree Protection Zone (TPZ) encroachment be necessary, the contractor shall contact the project arborist for consultation and recommendations.
- The contractor shall keep TPZs free of all construction-related materials, debris, fill soil, equipment, etc. The only acceptable material is mulch spread out beneath the trees.

- Should any damage to the trees occur, the contractor shall promptly notify the project arborist to appropriately mitigate the damage.

Landscaping Phase

- The Tree Protection Zone (TPZ) fencing shall remain in place with the same restrictions until landscape contractor notifies and meets with the project arborist.
- For tree #542:
    - All ground-disturbing work (e.g. tilling, irrigation, planting) shall be done with air- or water-assisted methods in order to preserve all roots.
    - Perform a root crown excavation on tree #542 to expose the original grade of the trunk and to evaluate the condition of the trunk. Do not backfill the excavated area. The grade shall be tapered to meet the surrounding landscape. (This can be done with the air/water-assisted methods during the landscaping phase.)
    - Spread a 4”-6” thick layer of coarse wood chips throughout the landscape area around tree #542once the new landscaping is completed.
- By trees #652 & 653: the closer edge of the proposed walkway to these two trees should be excavated by hand so roots can be cleanly pruned with a sharp handsaw or Sawzall.
- Avoid all fill work, grade changes, and trenching within driplines unless it is performed by hand. Pipes shall be threaded under or through large roots without damaging them.
- All planting and irrigation shall be kept a minimum of 10’ away from native oaks. All irrigation within the driplines shall be targeted at specific plants, such as drip emitters or bubblers. No overhead irrigation shall occur within the driplines of native oaks.
- All planting within oak driplines shall be compatible with oaks, consisting of plant material that requires little to no water after two years’ establishment. A list of oak-compatible plants can be found in a publication from the California Oak Foundation, available at: http://californiaoaks.org/wp-content/uploads/2016/04/CompatiblePlantsUnderAroundOaks.pdf

Thank you for the opportunity to provide this report, and please do not hesitate to contact me if there are any questions or concerns.

Sincerely,

Jennifer Tso
Board Certified Master Arborist #WE-10270B
Tree Risk Assessor Qualified

Please see attached exhibits:

- *Sample signage for tree protection fencing*
- *Tree inventory & assessment table*
- *Tree removal & protection plans (2 sheets)*.

APPENDIX 1: SAMPLE SIGN FOR TREE PROTECTION FENCING

Signs must be secured to the Tree Protection Fencing to identify its purpose, otherwise contractors may move fencing and expose the trees to unnecessary impacts. The contact information of the project superintendent or arborist should be included so the contractor can obtain permission before adjusting any of the fencing.

TREE PROTECTION FENCING

BEFORE MOVING THIS FENCE PANEL, OBTAIN PERMISSION FROM THE PROJECT ARBORIST OR SUPERINTENDENT

CONTACT INFORMATION

ARBORIST:
TRAVERSO TREE SERVICE
925-930-7901

APPENDIX 2: TREE INVENTORY & ASSESSMENT TABLE FOR SAN JOSE INDUSTRIAL PARK

Tree Inventory & Assessment Table
#s: Each tree was given a square metal tag with numbers ranging from #1-702. Their locations are given in the tree protection plan. Some off-site trees were not tagged due to access; the tags are placed on the property line fence wherever accessible.

DBH: Trunk diameters in inches were measured at 2' above average grade with a diameter tape. Frequently, diameters were visually estimated due to low branching, poison oak, and inaccessibility. Height of measurement may deviate from the standard on atypical trunks; deviations are noted under the "Comments" section.

Ordinance-sized (Ord): X indicates that the tree is considered "heritage" per city ordinance, defined as non-eucalyptus trees with trunk circumference of 50" or greater (≥16" diameter) measured at 24" above grade.

Health & Structural Condition Rating
Dead: Dead or declining past chance of recovery.
Poor (P): Stunted or declining canopy, poor foliar color, possible disease or insect issues. Severe structural defects that may or may not be correctable. Usually not a reliable specimen for preservation.
Fair (F): Fair to moderate vigor. Minor structural defects that can be corrected. More susceptible to construction impacts than a tree in good condition.
Good (G): Good vigor and color, with no obvious problems or defects. Generally more resilient to impacts.
Very Good (VG): Exceptional specimen with excellent vigor and structure. Unusually nice.

Dripline: Canopy radius was visually estimated in each cardinal direction.

Age
Young (Y): Within the first 20% of expected life span. High resiliency to encroachment.
Mature (M): Between 20% - 80% of expected life span. Moderate resiliency to encroachment.
Overmature (OM): In >80% of expected life span. Low resiliency to encroachment.

DE: Dripline Encroachment (X indicates encroachment)
CI: Anticipated Construction Impact (L = Low, M = Moderate, H = High)

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
1	Evergreen ash (*Fraxinus uhdei*)	12.5	X	F-P	F	8	Y-M	X	H	Off-site tree. Moderate large dieback with 1/4 of tree dead. Codominant stems at 4.5'. W side of trunk damaged by vehicles. In proposed sidewalk.	Remove.
2	Evergreen ash	22	X	G-F	F-P	20	M	X	L-M	Off-site tree. Multiple crowded stems at 10', topped again at 15'. Canopy raised. Tip dieback of small branches. 10' from proposed TCM.	Install temporary fencing; arborist to monitor start of TCM excavation.
3	Evergreen ash	16	X	F	F-P	18	M	X	M	Off-site tree. Topped at 8'. Slightly sparse canopy, raised to upper 1/3. 8' from proposed TCM.	
4	Evergreen ash	15	X	F/F-P	F-P	15	M	X	M	Off-site tree. Moderate small dieback. Multiple stems at 8'. 8' from proposed TCM.	
5	Evergreen ash	18	X	F-P	F/F-P	25	M	X	M	Off-site tree, DBH estimated, no tag. Moderate dieback on W side of canopy. Large stem damaged from rubbing on light. 8' from proposed TCM.	

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
6	Evergreen ash	16	X	P	F-P	18	M	X	M	Off-site tree, DBH estimated, no tag. Significant dieback especially on N/W sides of tree. 9' from proposed TCM.	Install temporary fencing; arborist to monitor start of TCM excavation.
7	Evergreen ash	19	X	F-P	F-P	20	M	X	M	Off-site tree, DBH estimated, no tag. Overall sparse canopy. Dead branches on E side. 9' from proposed TCM.	
8	Evergreen ash	20	X	F-P	F-P	15	M	X	M	Off-site tree, DBH estimated, no tag. Sparse canopy, moderate tip and branch dieback. 9' from proposed TCM.	
9	Evergreen ash	22	X	F-P	P	15	M	X	M	Off-site tree, DBH estimated, no tag. Sparse canopy with moderate tip dieback. 7'-8' from proposed TCM.	
10	Evergreen ash	28	X	G	F-P	25	M	X	M	Off-site tree, DBH estimated, no tag. Vertical codominant stems. 8' from proposed TCM.	
11	Evergreen ash	22	X	F-P	F-P	25	M	X	M	Off-site tree, DBH estimated, no tag. Sparse canopy. Moderate tip dieback. 9' from proposed TCM.	
12	Evergreen ash	21	X	G-F	F	20	M	X	M	Off-site tree, DBH estimated, no tag. Slightly sparse canopy. Minor tip dieback. 1" lift of curb 18' from trunk. 9' from proposed TCM.	
13	Evergreen ash	18	X	G-F	P	20	M	X	M	Off-site tree, DBH estimated, no tag. 1" lift of curb to S with crack in asphalt in line with trunk (extends to 25'). 8' from proposed TCM.	
14	Evergreen ash	18	X	P	F-P	15	M	X	M	Off-site tree, DBH estimated, no tag. Moderate dieback. 0.5" lift of curb 10' to SW. 9' from proposed TCM.	
15	Evergreen ash	14	X	F-P	F	20	M	X	M	Off-site tree, DBH estimated, no tag. Sparse canopy. Moderate tip dieback. Curb lifted 1" to S. 9' from proposed TCM.	
16	Evergreen ash	14	X	G/G-F	F	15	M	X	M	Off-site tree, DBH estimated, no tag. 1" lift in concrete curb 15' to SW. 9' from proposed TCM.	
17	Evergreen ash	15	X	P	F-P	15	M	X	M	Off-site tree, DBH estimated, no tag. Very sparse canopy. Moderate tip dieback. 9' from proposed TCM.	
18	Evergreen ash	22	X	F/F-P	F/F-P	18	M	X	M	Off-site tree, DBH estimated, no tag. Barely noticeable lift in curb to S with additional cracks. 2 elongated scaffolds to E. Sparse upper canopy. 9' from proposed TCM.	
19	Evergreen ash	18	X	G-F	F/F-P	18	M	X	M	Off-site tree, DBH estimated, no tag. Curb lifted at least 2" with no clear root; curb chunk removed. Minor tip dieback. 8' from proposed TCM.	
20	Evergreen ash	16	X	P	F-P	12	M	X	M	Off-site tree, DBH estimated, no tag. Sparse canopy. Minor tip dieback and dead branches in W half of canopy. 9' from proposed TCM.	
21	Evergreen ash	23	X	F-P	F-P	18	M	X	M	Off-site tree, DBH estimated, no tag. Sparse canopy, especially upper with minor tip dieback. 0.5" lift in curb 12' to SW. 9' from proposed TCM.	
22	Evergreen ash	18	X	G-F	F	18	M	X	M	Off-site tree, DBH estimated, no tag. 9' from proposed TCM.	
23	Evergreen ash	17	X	F/F-P	F-P	15	M	X	M	Off-site tree, DBH estimated, no tag. Barely noticeable lift in curb. Slightly sparse canopy with minor tip dieback. 9' from proposed TCM.	
24	Evergreen ash	25	X	F	F-P	20	M	X	M	Off-site tree, DBH estimated, no tag. Elongated scaffold branch 25' to E. 0.5" lift of curb. 9' from proposed TCM.	

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
25	Evergreen ash	18	X	F/F-P	F-P	15	M	X	M	Off-site tree, DBH estimated, no tag. Moderately sparse canopy. 2" lift of curb to SE with no obvious roots. 7' from proposed parking (similar location to existing).	Install temporary fencing; arborist to monitor start of excavation.
26	Evergreen ash	16	X	F	F-P	18	M	X	M	Off-site tree, DBH estimated, no tag. Sparse canopy. 7' from proposed parking (similar location to existing).	
27	Coast live oak (*Quercus agrifolia*)	4		G	F	12w	Y	X	L-M	Off-site tree, DBH estimated, no tag. Phototropic lean to W. 7' from proposed parking (similar location to existing).	
28	Coast redwood (*Sequoia sempervirens*)	12	X	F-P	F	12	M-OM	X	M	Off-site tree, DBH estimated, no tag. Sparse and stunted foliage. Multiple dead branches. Lopsided due to crowding. 8' from proposed parking (similar location to existing).	Install temporary fencing. Stressed tree, will continue decline.
29	Elderberry (*Sambucus* sp.)	9		Dead	VP	15SW	OM	X	-	Off-site tree, DBH estimated, no tag. Basically dead with a few leaves remaining on one stem. Other trunks 8", 8" & 5". 5' from proposed parking (similar location to existing).	Remove (dead tree).
30	Coast live oak	12, 12	X	G	G-F	15	M	X	L-M	Off-site tree, DBH estimated, no tag. Codominant trunks. 8' from proposed parking (similar location to existing).	Install temporary fencing.
31	Coast live oak	13	X	G	G-F	25W	M	X	H	Off-site tree, DBH estimated, no tag. Codominant stems at 8'. In proposed drive aisle.	Remove.
32	Olive (*Olea europea*)	4, 4, 4, 3	X	G	F	15	M	X	H	Off-site tree; tag on fence. Sparse upper canopy. In proposed drive aisle.	Remove.
33	Coast live oak	15	X	G	F	15	M	X	H	Off-site tree, DBH estimated, no tag. Previously topped at 3.5' above grade. In proposed drive aisle.	Remove.
34	London planetree (*Platanus* x *hispanica*)	13.5	X	F	G	18	M	X	H	Slightly sparse canopy. Overpruned, powdery mildew. In proposed building.	Remove.
35	London planetree	10		G-F	F	15	Y-M	X	H	Slightly sparse canopy. Overpruned, powdery mildew. In proposed building.	Remove.
36	London planetree	11		G-F	G-F	15	Y-M	X	H	Slightly sparse canopy. Overpruned, powdery mildew. In proposed building.	Remove.
37	London planetree	10		G-F	F/F-P	12	Y-M	X	H	Funky curves in branches. Slightly sparse canopy. Overpruned, powdery mildew. In proposed building.	Remove.
38	London planetree	11		F	G-F	15	Y-M	X	H	Slightly sparse canopy. Overpruned, powdery mildew. 1' from proposed building.	Remove.
39	London planetree	11		G-F	G-F	15	Y-M	X	H	Slightly sparse canopy. Overpruned, powdery mildew. 5' from proposed building, in proposed parking.	Remove.
40	London planetree	11		G-F	G-F	12	Y-M	X	H	Slightly sparse canopy. Overpruned, powdery mildew. In proposed drive aisle.	Remove.
41	London planetree	10.5		G-F	G-F	15	Y-M	X	H	Slightly sparse canopy. Overpruned, powdery mildew. In proposed drive aisle.	Remove.
42	London planetree	14	X	G-F	G-F	15	Y-M	X	H	Slightly sparse canopy. Overpruned, powdery mildew. In proposed drive aisle.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
43	London planetree	13	X	G-F	G-F	12	Y-M	X	H	Slightly sparse canopy. Overpruned, powdery mildew. In proposed drive aisle.	Remove.
44	London planetree	11.5		G-F	G-F	12	Y-M	X	H	Slightly sparse canopy. Overpruned, powdery mildew. In proposed drive aisle.	Remove.
45	London planetree	10.5		G-F	G-F	12	Y-M	X	H	Slightly sparse canopy. Overpruned, powdery mildew. In proposed drive aisle.	Remove.
46	London planetree	12	X	G-F	G	15	M	X	H	0.5" lift of concrete curb. In proposed drive aisle.	Remove.
47	London planetree	10		G-F	G-F	12	Y-M	X	H	In proposed parking.	Remove.
48	London planetree	11		F	G-F	15	Y-M	X	H	Slightly sparser canopy. In proposed parking.	Remove.
49	London planetree	10		G-F	G-F	12	Y-M	X	H	In proposed parking.	Remove.
50	London planetree	8.5		G-F	F	15SE	Y	X	H	Minor cracks in curb. In proposed parking.	Remove.
51	London planetree	11		G-F	G-F	15	Y-M	X	H	Curb pushed out to N about 0.5" and street corner is lifted. Hydrant 6' to E. In proposed parking.	Remove.
52	Coast live oak	19	X	G	G	15	M	X	L	Off-site tree, DBH estimated. Right next to fence, part of fence engulfed by trunk. 13' from proposed parking, within proposed landscaping area.	Install temporary fencing.
53	Coast live oak	8, 9	X	G	F	20S	Y-M	X	L	Off-site tree, DBH estimated. Codominant trunks. 18" from fence. 16' from proposed parking, next to proposed landscaping area.	Install temporary fencing.
54	Coast live oak	10, 8	X	G	F	18	Y-M	X	L	Off site tree, DBH estimated, tag on fence. Codominant stems at 2' with minor bark inclusion. Next to proposed landscaping area.	Install temporary fencing, expand after demolition.
55	Olive	6, 7	X	P	F	10	M-OM	X	H	Off-site tree, DBH estimated, trunk flush to fence. Sparse canopy with twig dieback. In proposed drainage pipe.	Move drainage pipe to 6' from trunk to save; otherwise remove tree.
56	Coast live oak	8		G	G	10SW	Y	X	L	Off-site tree, DBH estimated, 6" from fence. Next to proposed landscaping area.	Install temporary fencing, expand after demolition.
57	Evergreen ash	15	X	F/F-P	F-P	15E	M	X	H	In proposed parking.	Remove.
58	Evergreen ash	18	X	F-P	P	18	M	X	H	In proposed parking.	Remove.
59	Evergreen ash	24	X	F/F-P	F	18	M	X	H	Sparse canopy, largest tree in vicinity. 2" root parallel between planter and asphalt; other asphalt crack perpendicular to driveway. In proposed drive aisle.	Remove.
60	Evergreen ash	14	X	VP	P	8	OM	X	H	Very little canopy, only at very tips. LCR 12%. In proposed drive aisle.	Remove.
61	Evergreen ash	14	X	F-P	F-P	10	M	X	H	LCR 33%. Sparse canopy. In proposed drive aisle.	Remove.
62	Evergreen ash	12	X	P	P	12	M-OM	X	H	Sparse canopy with stunted, off-color and burnt leaves. Sidewalk recently replaced. In proposed building.	Remove.
63	Evergreen ash	14.5	X	F-P	P	12	M	X	H	LCR 20%. Sparse canopy. In proposed building.	Remove.
64	Evergreen ash	11.5		F	F-P	8	M	X	H	Narrow codominant stems at 8'. Sidewalk recently replaced. In proposed building.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
65	Camphor (*Cinnamomum camphora*)	11		F-P	P	18S	M	X	H	LCR 17%, almost no canopy. In proposed building.	Remove.
66	Evergreen ash	22	X	F	F	15	M	X	H	0.5" lift of sidewalk, curb recently replaced 6' to NE. In proposed building.	Remove.
67	Evergreen ash	14	X	F	F-P	20s	M	X	H	Barely corrected phototropic lean to S. Large surface roots to N damaged by mowers. In proposed building.	Remove.
68	Evergreen ash	11.5		F	F	10	M	X	H	Overpruned, resprouting. In proposed building.	Remove.
69	Evergreen ash	18.5	X	F-P	F-P	12	M	X	H	LCR 30%. In proposed building.	Remove.
70	Evergreen ash	16.5	X	F	F	20NE/N/E	M	X	H	Sparse canopy. In proposed building.	Remove.
71	Evergreen ash	11		F	F-P	18S half	M	X	H	Sidewalk recently replaced. Light post 2' to E. LCR 33%. Slightly sparse canopy. In proposed building.	Remove.
72	Evergreen ash	10.5		G-F	F	18 half	M	X	H	In proposed building.	Remove.
73	Evergreen ash	11		F	F-P	6	M	X	H	Essentially a stick with leaves. In proposed building.	Remove.
74	Evergreen ash	24	X	F-P	F-P	18	M	X	H	Sparse canopy. In proposed building.	Remove.
75	Evergreen ash	19.5	X	G	P	18s	M	X	H	Uncorrected phototropic lean to S with large gap from adjacent canopy (may be past failure or removal). Sidewalk replaced. In proposed building.	Remove.
76	Evergreen ash	15.5	X	F-P	P	15	M	X	H	Sparse canopy; LCR 33%. In proposed building.	Remove.
77	Evergreen ash	16	X	P	VP	8S	M-OM	X	H	LCR 10%. S side of trunk dead with beetles. In proposed building.	Remove.
78	Evergreen ash	11		F-P	F-P	12	M	X	H	Sparse canopy. In proposed building.	Remove.
79	Evergreen ash	22	X	G-F	F	18	M	X	H	Old large wound on S side of trunk where root was ground for ramp. In proposed building.	Remove.
80	Evergreen ash	12.5	X	F-P	F/F-P	12	M	X	H	Sparse canopy with tip dieback. In proposed building.	Remove.
81	Evergreen ash	16.5	X	F	F-P	20S	M	X	H	Tips of canopy sparse. Main root cut at SW side of trunk, visible root damage parallel to sidewalk from grinding. In proposed building.	Remove.
82	Evergreen ash	20	X	F-P	F-P	18	M	X	H	Sparse canopy. In proposed building.	Remove.
83	Evergreen ash	16	X	P	P	15	OM	X	H	Very sparse canopy, all concentrated at top. Roots damaged likely from DG installation. In proposed building.	Remove.
84	Evergreen ash	23.5	X	F	F-P	20	M	X	H	Vertical codominant stems at 8'; reduced by pruning. Several buttress roots ground for decomposed granite installation. In proposed building.	Remove.
85	Evergreen ash	27	X	G	F/F-P	20	M	X	H	Overpruned - sprouting back. Otherwise healthy canopy. In proposed building.	Remove.
86	Evergreen ash	22.5	X	G-F	F-P	20	M	X	H	LCR 33%. In proposed building.	Remove.
87	Evergreen ash	23	X	G-F	F-P	18	M	X	H	Slightly sparse canopy. Sidewalk cracked and lifted. Relatively new path between this tree and #88. In proposed building.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
88	Evergreen ash	12	X	F-P	P	20N	M	X	H	Foliage only at tips, trunk and branches with LCR 17%. In proposed building.	Remove.
89	Evergreen ash	24	X	P	F	20	M	X	H	Sparse canopy. Large drain at 1' from trunk, 2 sidewalks at 2'-3'. In proposed building.	Remove.
90	Evergreen ash	13	X	F	P	15N	M	X	H	LCR 12.5%. In proposed building.	Remove.
91	Evergreen ash	20	X	G	F	18	M	X	H	Surface roots along hardscape, minor cracking. In proposed building.	Remove.
92	White birch (*Betula pendula*)	5		F-P	G-F	8	Y-M	X	H	Sparse canopy with dieback and burnt leaves. In proposed drive aisle.	Remove.
93	London planetree	8		G	G	15	M	X	H	In decomposed granite with minor phototropic lean. In proposed drive aisle.	Remove.
94	White birch	5		P	G	8	Y	X	H	Very sparse canopy with burnt leaves. In proposed drive aisle.	Remove.
95	Evergreen ash	30.5	X	G	F	25	M	X	H	Large surface roots visible throughout landscape area and along hardscape (no damage). In proposed drive aisle.	Remove.
96	Evergreen ash	25	X	F/F-P	F	15	M	X	H	Concrete section replaced next to tree with roots ground out. Codominant stems at 20'. Sparse canopy. In proposed drive aisle.	Remove.
97	Evergreen ash	18	X	F	F	18	M	X	H	Slightly sparse canopy with codominant stems at 8', 15' & 21'. In proposed drive aisle.	Remove.
98	Evergreen ash	19.5	X	F-P	F	15W20E	M	X	H	Sparse canopy with dieback. Sidewalk section replaced. Canopy restricted by adjacent trees. In proposed drive aisle.	Remove.
99	Evergreen ash	25	X	G	F-P	20	M	X	H	LCR 12.5%. Sidewalk panel replaced. Slightly sparse canopy, branch over roof has healthiest foliage. In proposed drive aisle.	Remove.
100	Evergreen ash	33	X	F-P	P	25	M	X	H	Concrete replaced; roots cut. Trunk buttress overgrowing drain. Sparse canopy with moderate branch dieback. Multiple stems at 18' above grade. In proposed drive aisle.	Remove.
101	London planetree	12	X	G	G-F	10	Y-M	X	H	In proposed drive aisle.	Remove.
102	London planetree	7		G-F	F	10	Y	X	H	In proposed drive aisle.	Remove.
103	London planetree	7.5		F	F	10	Y-M	X	H	Slightly sparse canopy. In proposed drive aisle.	Remove.
104	London planetree	11		G	F	8	Y-M	X	H	In proposed drive aisle.	Remove.
105	London planetree	9		G	G	10S	Y	X	H	In proposed drive aisle.	Remove.
106	London planetree	5		G-F	G	10	Y	X	H	In proposed drive aisle.	Remove.
107	London planetree	6.5		G	G	10	Y	X	H	In proposed drive aisle.	Remove.
108	London planetree	8		G-F	F	12S	Y	X	H	In proposed drive aisle.	Remove.
109	London planetree	8		G-F	F	12S	Y	X	H	Dominated by ash. In proposed drive aisle.	Remove.
110	Chinese elm	12, 7.5, 5.5	X	F	F	20	M	X	H	Slightly sparse canopy. Fully surrounded by concrete with 8' radius planter. Elongated branch to E over pond. In proposed drive aisle.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
111	Evergreen ash	15	X	G	F	20	M	X	H	Elongated branches to NW due to crowding. Concrete ground down. In proposed drive aisle.	Remove.
112	Evergreen ash	22	X	G	G	25	M	X	H	Sidewalk replaced and roots ground out at 1' from trunk. Tip dieback towards top. In proposed drive aisle.	Remove.
113	Evergreen ash	24	X	G-F	F	18	M	X	H	Sidewalk cracked, nearby panels replaced or ground out. Surface roots visible throughout lawn area. In proposed drive aisle.	Remove.
114	Evergreen ash	13	X	F-P	F	15	M	X	H	Moderate twig dieback. Root mass above grade of sidewalk; sidewalk repaired by grinding. In proposed drive aisle.	Remove.
115	Evergreen ash	20	X	G	G-F	20	M	X	H	Sidewalk ground down at 12' to SE. Root mass above sidewalk grade. 30' dripline to SE over parking. In proposed drive aisle.	Remove.
116	Himalayan birch (*Betula jacquemontii*)	2, 1		P	F	6	Y	X	H	Drought stressed, roots exposed by sprinkler irrigation. In proposed drive aisle.	Remove.
117	Evergreen ash	13	X	F/F-P	F	20W	M	X	H	Interior branch dieback. In proposed drive aisle.	Remove.
118	Evergreen ash	10.5		G-F	F	12	Y-M	X	H	In proposed drive aisle.	Remove.
119	Evergreen ash	16.5	X	P	F	20W	M-OM	X	H	Very sparse canopy. In proposed drive aisle.	Remove.
120	Evergreen ash	13	X	G-F	F	18	M	X	H	5' from proposed building.	Remove.
121	Evergreen ash	21	X	F-P	F	25	M	X	H	Root mass almost 1' above sidewalk grade. Sidewalk recently replaced but roots appear intact with root-shaped crack in parking lot. Sparse canopy. In proposed building.	Remove.
122	Evergreen ash	9		F-P	P	15S	M	X	H	Sparse canopy, highly reduced to S due to competition from adjacent tree. Moderate dead branches. In proposed building.	Remove.
123	Evergreen ash	10		F	F-P	12	Y	X	H	Sparse canopy. In proposed building.	Remove.
124	Evergreen ash	11.5		P	F	12	Y-M	X	H	Very sparse canopy. Closest sprinkler appears broken. In proposed building.	Remove.
125	Evergreen ash	8.5		F-P	F	10	Y	X	H	Moderately sparse canopy. In proposed building.	Remove.
126	Evergreen ash	10.5		G-F	F	12	Y-M	X	H	Slightly sparse branch tips. In proposed building.	Remove.
127	Evergreen ash	9		G-F	P	10	Y-M	X	H	3 vertical stems between 7-9' above grade. Top slightly sparse. In proposed building.	Remove.
128	Evergreen ash	10.5		F	F	15	Y-M	X	H	Tip of branches dying back. Sidewalk ground down. In proposed building.	Remove.
129	Evergreen ash	15		P	F	20	M	X	H	Sidewalk replaced. 4" dead branch over asphalt. Branch tip dieback and sparse canopy, foliage wilted. In proposed building.	Remove.
130	Evergreen ash	9.5		P	F-P	8	Y-M	X	H	W stem half dead, sparse canopy. In proposed building.	Remove.
131	Evergreen ash	16	X	P	F	20	M	X	H	Sparse canopy especially at top with tip dieback on a few branches. Sidewalk replaced, roots ground. In proposed building.	Remove.
132	Evergreen ash	16	X	F	F	15	M	X	H	Upper canopy slightly sparse. Triple stems at 8'. In proposed building.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
133	Evergreen ash	17.5	X	P	F-P	12	M	X	H	Sparse canopy with top dieback. Sidewalk recently replaced with roots ground. Electric utility box within 18" of trunk. In proposed building.	Remove.
134	Evergreen ash	15.5	X	F-P	F/F-P	15	M	X	H	Top dieback; remaining canopy full. Large root shaped lift under asphalt at 10' to NW. In proposed building.	Remove.
135	Evergreen ash	16.5	X	P	F-P	15	M	X	H	Significant tip and top dieback. Sidewalk recently replaced; curving around 2 sides of tree at 1' from trunk. In proposed building.	Remove.
136	Evergreen ash	16.5	X	F/F-P	F-P	15	M	X	H	Sparse canopy with twig dieback. Sidewalk replaced at 18" to S. In proposed building.	Remove.
137	Mulberry	7		F-P	F	12	Y	X	H	Slightly sparse canopy with stunted growth. Multiple trunk cankers over 5' of trunk. In proposed building.	Remove.
138	Mulberry	9		G-F	F-P	15	Y	X	H	Low growing, slightly sparse canopy. Significant decay on trunk in 5' long canker. In proposed building.	Remove.
139	Mulberry	6.5		F/F-P	F	8	Y	X	H	Sparse canopy. 5' long sunburn canker on W side of trunk. In proposed building.	Remove.
140	Mulberry	5		F-P	F	10	Y	X	H	Curb lifted 3" at 3' E of trunk. In proposed building.	Remove.
141	Mulberry	9		F	F	12	Y	X	H	Sparse canopy. Multiple trunk cankers with largest on E side (4' long). In proposed parking.	Remove.
142	Mulberry	6		F-P	F	8	Y	X	H	Slightly sparse and chlorotic canopy. Curb lifted 1". Wound with decay at base. In proposed drive aisle.	Remove.
143	Mulberry	5.5		F-P	F	8	Y	X	H	Slightly sparse and chlorotic canopy. Sunburn trunk canker on entire W side of trunk. In proposed drive aisle.	Remove.
144	Mulberry	4		P	F	8	Y	X	H	Stunted growth, very reduced canopy. Canker on entire trunk to S. In proposed building.	Remove.
145	Mulberry	7		F	F	10	Y	X	H	Long trunk cankers to W and E. Slightly chlorotic and stunted foliage. In proposed building.	Remove.
146	Mulberry	7		F	F	15	Y	X	H	Curb lifted 1'. Slightly stunted and chlorotic foliage. Trunk cankers to W. In proposed building.	Remove.
147	Mulberry	7.5		F-P	F/F-P	18	Y	X	H	Moderately sparse canopy, branch dieback, stunted growth. 1" lift of curb. In proposed building.	Remove.
148	Mulberry	4		F	F	6	Y	X	H	Minor trunk cankers to W. In proposed building.	Remove.
149	Mulberry	3		VP	P	5	OM	X	H	Almost dead; bark mostly dead. In proposed building.	Remove.
150	Mulberry	7		P	F	6	OM	X	H	Curb lifted up to 2". Trunk cankers around entire circumference. In proposed building.	Remove.
151	Mulberry	6		F	F	10	Y	X	H	In proposed building.	Remove.
152	Mulberry	3.5		F-P	F-P	8SEW	Y	X	H	Trunk cankers on S/W. In proposed drive aisle.	Remove.
153	Mulberry	6		F-P	F	12	Y	X	H	Trunk cankers on entire circumference. In proposed drive aisle.	Remove.
154	Mulberry	6.5		P	F-P	12	Y	X	H	Curb lifted 2". Moderately sparse, stunted and chlorotic canopy with branch dieback. In proposed drive aisle.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
155	Mulberry	4.5		P	F	8	Y	X	H	Very sparse, chlorotic and stunted canopy with branch dieback. Trunk cankers on S side. In proposed drive aisle.	Remove.
156	Mulberry	14		P	F	15	M	X	H	Moderately sparse & chlorotic canopy with branch dieback. 6" curb lift with root under asphalt. In proposed drive aisle.	Remove.
157	Mulberry	4		F-P	F	6	Y	X	H	Slightly sparse & chlorotic canopy. Trunk canker to N. In proposed drive aisle.	Remove.
158	Mulberry	6		P	F-P	6	Y	X	H	Moderately sparse & chlorotic canopy with top dieback. 1.5" lift of curb. Trunk canker on entire height to S. In proposed parking.	Remove.
159	Mulberry	6		F-P	F	8	Y	X	H	Slightly sparse & chlorotic canopy. Trunk bleeding at base on W side. Curb cracked. In proposed parking.	Remove.
160	Mulberry	8.5		P	F/F-P	8	Y	X	H	Moderately sparse & chlorotic canopy with branch dieback. Curb lifted 2"-3". In proposed parking.	Remove.
161	Mulberry	9.5		F-P	F	8	Y	X	H	Moderately sparse & chlorotic with tip dieback. 3" lift of curb by trunk. In proposed parking.	Remove.
162	Mulberry	7.5		F-P	F	8	Y	X	H	Slightly sparse & chlorotic canopy. 2" lift of curb. S side of trunk cankered. In proposed drive aisle.	Remove.
163	Mulberry	11		P	F	12	M	X	H	Moderately sparse & chlorotic with branch dieback in upper canopy. 1" lift of curb. 3' from proposed drive aisle.	Remove.
164	Mulberry	10.5		F-P	F	8	M	X	H	S side of trunk fully cankered. 0.5" curb lift. In proposed drainage pipe.	Remove.
165	Mulberry	10		F-P	F	10	M	X	H	Slightly sparse & chlorotic canopy. Trunk cankers to N and W. Curb lifted 3". In proposed parking.	Remove.
166	Mulberry	13	X	P	F	10	M	X	H	Moderately sparse & chlorotic with top dieback. Curb lifted 3". In proposed parking.	Remove.
167	Mulberry	12.5	X	G-F	G	15	M	X	H	Dead branches in upper canopy. Curb lifted 3" and 6" from original grade, roots visible in asphalt outside curb. 1' from proposed parking.	Remove.
168	Evergreen ash	13	X	G-F	F	15	Y-M	X	H	Sidewalk replaced. Slightly sparse canopy. In proposed building.	Remove.
169	Evergreen ash	13	X	G-F	F-P	10	Y-M	X	H	Sidewalk replaced. A few dead branches. In proposed building.	Remove.
170	Evergreen ash	12	X	F-P	F	15	Y-M	X	H	Sparse canopy, especially at top with twig dieback. In proposed building.	Remove.
171	Evergreen ash	11		P/P-VP	P	8	OM	X	H	Upper canopy and west scaffold dying. In proposed building.	Remove.
172	Evergreen ash	16	X	F-P	F	15	M	X	H	Sparse canopy; sidewalk replaced around half of tree. In proposed building.	Remove.
173	Evergreen ash	10		G-F	F	20SW	Y-M	X	H	Phototropic lean to SW. Sidewalk recently replaced. In proposed building.	Remove.
174	Evergreen ash	8.5		F/F-P	F	8	Y	X	H	Slightly sparse canopy. Sidewalk recently replaced. In proposed building.	Remove.
175	Evergreen ash	13	X	F-P	F	18	M	X	H	Sparse canopy. Sidewalk recently replaced. Large root shaped protrusion under asphalt 20' to E. In proposed building.	Remove.
176	London planetree	12.5	X	G-F	F	15	Y-M	X	H	Sprouting from trunk. Canopy overraised (to 15'). In proposed building.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
177	London planetree	10		G-F	G-F	12	Y-M	X	H	Canopy overraised (to 15'). In proposed building.	Remove.
178	London planetree	9		G-F	F	10	Y-M	X	H	Canopy overraised (to 15'). In proposed building.	Remove.
179	London planetree	10		G-F	F	15	Y-M	X	H	Canopy overraised (to 15'). In proposed building.	Remove.
180	London planetree	10.5		G-F	F	12	Y	X	H	Canopy overraised (to 15'). Within 1' of the proposed building.	Remove.
181	London planetree	13	X	G-F	F	12	Y-M	X	L-M	Canopy overraised (to 15'). Landscape area will be expanded around this tree.	Remove (per team).
182	London planetree	12	X	G-F	F	15	Y-M	X	H	Canopy overraised (to 15'). In proposed drive aisle.	Remove.
183	London planetree	11		G-F	F	18	Y-M	X	H	Canopy overraised (to 15'). In proposed drive aisle.	Remove.
184	London planetree	13.5	X	G-F	G	18	Y-M	X	H	Canopy overraised (to 15'). In proposed landscape planter (2' on either side of trunk).	Expand planter to provide 8' to N/S, otherwise remove.
185	London planetree	14	X	G-F	G-F	18	Y-M	X	H	Canopy overraised (to 15'). 4' from proposed parking.	Remove.
186	London planetree	11.5		G-F	F	15	Y-M	X	L	Canopy overraised (to 15'). 14' from proposed TCM.	Install temporary fencing, expand after demolition.
187	London planetree	11		G-F	F	15	Y-M	X	L	Canopy overraised (to 15'). 9' from proposed TCM.	
188	London planetree	11		G-F	F	11	Y-M	X	L	Canopy overraised (to 15'). 9' from proposed TCM.	
189	London planetree	14	X	G-F	F	15	Y-M	X	L	Canopy overraised (to 15'). Curb 3" from trunk. 9' from proposed TCM.	
190	London planetree	13	X	G	F	18	Y-M	X	L	Canopy overraised (to 15'). 9' from proposed TCM.	
191	London planetree	20.5	X	G	G	20	M	X	L	Canopy overraised (to 15'). 9' from proposed TCM.	
192	London planetree	11		G-F	F	12	Y-M	X	L	Canopy overraised (to 15'). 9' from proposed TCM.	
193	London planetree	10		G-F	F	10	Y-M	X	L	Canopy overraised (to 15'). Lean in lower trunk, corrected at 8' above grade. 9' from proposed TCM.	
194	London planetree	13	X	G-F	F	15	Y-M	X	M	Canopy overraised (to 15'). Trunk lifting and cracking concrete planter (no clearance). 13' from proposed TCM, 8' from proposed drive aisle.	
195	London planetree	16	X	G	G-F	20	M	X	H	Canopy overraised (to 15'). In proposed drive aisle.	Remove.
196	London planetree	9		G-F	F	15	Y-M	X	H	Canopy overraised (to 15'). In proposed drive aisle.	Remove.
197	London planetree	10		G-F	F	15	Y-M	X	H	Canopy overraised (to 15'). In proposed parking.	Remove.
198	London planetree	10.5		G-F	F	12	Y-M	X	M	Canopy overraised (to 15'). Minor lean in lower trunk. 1' from proposed gate box; remaining area to be expanded into landscaping.	Install temporary fencing, expand after demolition. Shift gate box to be equidistant from #198 & 199, if feasible, and hand dig edge of pad next to trunk.
199	London planetree	12	X	G-F	F	15	Y-M	X	M	Canopy overraised (to 15'). Within 1' of light post. In proposed landscaping area.	Install temporary fencing, expand after demolition.
200	London planetree	10		G-F	F	18	Y-M	X	M	Canopy overraised (to 15'). In proposed landscaping area.	Install temporary fencing, expand after demolition.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
201	London planetree	11		G	G-F	18	Y-M	X	M	Canopy overraised (to 15'). Trunk within 1' of curb, curb lifted about 2". In proposed landscaping area (expanded); proposed drive aisle in existing asphalt.	Remove (per team).
202	London planetree	12.5	X	G-F	G-F	18	Y-M	X	H	Canopy overraised (to 15'). In proposed drive aisle.	Remove.
203	London planetree	7		F	F	12	Y	X	H	Canopy overraised (to 15'). In proposed drive aisle.	Remove.
204	London planetree	8		G-F	G	12	Y	X	H	Canopy overraised (to 15'). Within 1' of proposed drive aisle.	Remove.
205	London planetree	13	X	F	G	18	Y-M	X	H	Canopy overraised (to 15'). Slightly stunted growth with branch dieback. 2' from proposed drive aisle.	Remove.
206	London planetree	9		G-F	F	15NE/NW	Y-M	X	H	Canopy overraised (to 15'). Trunk 6" from light post. In proposed parking.	Remove.
207	London planetree	10		G-F	F	15	Y-M	X	H	Canopy overraised (to 15'). In proposed drive aisle.	Remove.
208	Evergreen ash	4, 3.5, 4		F-P	F-P	12	Y	X	L	Off-site tree; DBH estimated. Canopy overraised (to 15'). Codominant trunks. 6" from fence. 25' from proposed TCM; in proposed landscape area.	Install temporary fencing, expand after demolition.
209	Olive	6.5		F	G-F	10	Y	X	L	Off-site tree; DBH estimated. Within 2" of fence. Sparse canopy. 23' from proposed TCM; in proposed landscape area.	
210	Olive	6		F-P	F	10E	Y	X	L	Off-site tree; DBH estimated. Within 2" of fence. Sparse canopy, off color foliage. 23' from proposed TCM; in proposed landscape area.	
211	Coast live oak	12	X	G	G	15	Y-M	X	L	Off-site tree; DBH estimated. Tag on fence. 6' from E fence. Codominant stems at 6'. In proposed landscape area.	
212	Evergreen ash	11, 7	X	F-P	F	15	Y-M	X	L	Off-site tree; DBH estimated. 1' from fence. Sparse canopy. 12' from proposed drive aisle; in proposed landscape area.	
213	Evergreen ash	11, 4	X	F-P	F	18	Y	X	H	Off-site tree; DBH estimated. 2" from fence. Sparse canopy. 1' from proposed drive aisle.	Remove.
214	Evergreen ash	4, 7		F-P	F	15	Y-M	X	H	Off-site tree; DBH estimated. Tag on fence, 3" from fence. Sparse canopy. Within 1' of proposed drive aisle.	Remove.
215	Evergreen ash	9, 12	X	F/F-P	F	15	M	X	H	Off-site tree; DBH estimated. 3" from fence. (Actually 2 trees.) Within 1' of proposed drive aisle.	Remove.
216	Evergreen ash	3		F	F	20W	Y	X	H	Off-site tree; DBH estimated. 3" from fence. Within 1' of proposed drive aisle.	Remove.
217	Callery pear (*Pyrus calleryana*)	5		G	F	18	Y	X	H	Off-site tree; DBH estimated. 3" from fence. Within 1' of proposed drive aisle.	Remove.
218	Callery pear	4		G	F	8S	Y	X	H	Off-site tree; DBH estimated. 14" from fence. Crowded by other volunteers. 1' from proposed drive aisle.	Remove.
219	Olive	5		G	G	8	Y	X	H	Off-site tree; DBH estimated. Fence starting to get embedded in trunk. 1' from proposed drive aisle.	Remove.
220	Olive	3		P	P	6SW	Y	X	H	Off-site tree; DBH estimated. 6" from fence. Dominated by other trees, phototropic lean to S. 2' from proposed drive aisle.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
221	Evergreen ash	13	X	G	G	12	M	X	H	Off-site tree; DBH estimated. 3" from fence. 2' from proposed drive aisle.	Remove.
222	London planetree	13	X	G	F	12 NE	M	X	L-M	Off-site tree; DBH estimated; tag on fence; 3' from fence. Corrected lean to E. 12' from proposed drive aisle; proposed expansion of landscape area.	Install temporary fencing, expand after demolition.
223	Evergreen pear (*Pyrus kawakamii*)	13	X	G-F	F	15	M	X	L-M	Off-site tree; DBH estimated; tag on fence; 3' from fence. Fire blight. Proposed expansion of landscape area.	Install temporary fencing, expand after demolition.
224	Evergreen pear	9		G-F	F	8	M	X	L-M	Off-site tree; DBH estimated; tag on fence; 3' from fence. Fire blight. Proposed expansion of landscape area.	
225	Evergreen pear	11		G	G-F	12	M	X	L-M	Off-site tree; DBH estimated; tag on fence; 3' from fence. Minor fire blight. Proposed expansion of landscape area.	
226	Evergreen pear	13	X	G	F	15	M	X	L-M	Off-site tree; DBH estimated; tag on fence; 3' from fence. Minor fire blight. Proposed expansion of landscape area.	
227	London planetree	12	X	G	G-F	12	Y-M	X	L-M	Off-site tree; DBH estimated; tag on fence; 3' from fence. Proposed expansion of landscape area.	
228	Evergreen pear	12	X	G-F	F	15	M	X	L-M	Off-site tree; DBH estimated; tag on fence; 3' from fence. Fire blight. Proposed expansion of landscape area.	
229	Evergreen pear	12	X	G	F	10	M	X	L-M	Off-site tree; DBH estimated; tag on fence; 3' from fence. Minor fire blight. Proposed expansion of landscape area.	
230	Evergreen pear	11		G	F	18	M	X	L-M	Off-site tree; DBH estimated; tag on fence; 3' from fence. Minor fire blight. Proposed expansion of landscape area.	
231	Evergreen pear	14	X	G	F	18	M	X	L-M	Off-site tree; DBH estimated; tag on fence; 3' from fence. Minor fire blight. Proposed expansion of landscape area.	
232	London planetree	14	X	G	G-F	18	M	X	L	Off-site tree; DBH estimated; tag on fence; 3' from fence. Proposed expansion of landscape area.	
233	Evergreen pear	14	X	G	G-F	15	M	X	L-M	Off-site tree; DBH estimated; tag on fence; 3' from fence. 19' from proposed drive aisle; landscape area will be expanded around tree.	Install temporary fencing.
234	Valley oak (*Quercus lobata*)	15	X	G	G	18	Y-M	X	H	Off-site tree; DBH estimated; tag on fence. 8" from fence. 2' from proposed drive aisle.	Remove.
235	London planetree	15	X	G	G	20	M	X	M	Off-site tree; DBH estimated; tag on fence. 8' from fence. 7' from proposed drive aisle.	Install temporary fencing.
236	Evergreen ash	6.5		G	F	15SE	Y	X	H	Understory tree, 4" from #237 and 2" from fence. Phototropic lean to NE. In proposed drive aisle.	Remove.
237	Evergreen ash	20, 10, 14	X	F	F-P	20	M	X	H	Slightly sparse canopy, multiple stems at 3.5' and again at 8' above grade. In proposed drive aisle.	Remove.
238	Evergreen ash	12, 9, 12, 13, 11.5	X	F-P	F-P	20	M	X	H	Slightly sparse canopy (especially upper, with tip dieback). Multiple stems between 1'-2' above grade. In proposed drive aisle.	Remove.
239	Evergreen ash	16.5, 11, 10	X	F-P	F-P	20	M	X	H	Canopy sparse overall with droopy foliage. Multiple stems between 1'-3' above grade. Within 2" of fence. In proposed drive aisle.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
240	Evergreen ash	6, 4.5, 5, 6	X	P	F-P	10	Y-M	X	H	8" from fence tag on fence. Codominant trunks. Sparse canopy with moderate branch dieback. In proposed drive aisle.	Remove.
241	Evergreen ash	9.5, 8	X	G-F	F	18	M	X	H	Codominant trunks at 1' above grade with minor bark inclusion. In proposed drive aisle.	Remove.
242	Valley oak	32	X	VG	G	25	M	X	H	Elongated scaffold 30' to N. Trunk flare partially buried by fill. Wide codominant stems at 5' above grade. In proposed drive aisle.	Remove.
243	London planetree	14	X	G-F	G-F	12	M	X	H	In proposed building.	Remove.
244	London planetree	13	X	G-F	G-F	12	M	X	H	In proposed building.	Remove.
245	London planetree	13	X	G-F	G-F	15	M	X	H	In proposed drive aisle.	Remove.
246	London planetree	18	X	G-F	F	15	M	X	H	Trunk 4" from curb, no visible damage. In proposed drive aisle.	Remove.
247	London planetree	15	X	G-F	G-F	18	M	X	H	In proposed drive aisle.	Remove.
248	London planetree	13.5	X	G-F	F	15	M	X	H	In proposed drive aisle.	Remove.
249	London planetree	12	X	G-F	F	15	M	X	H	In proposed drive aisle.	Remove.
250	London planetree	10.5		G-F	F	15	M	X	H	In proposed drive aisle.	Remove.
251	London planetree	13.5	X	G-F	F/F-P	12	M	X	H	6 codominant stems at 8' above grade. In proposed drive aisle.	Remove.
252	Mulberry	14	X	G	F	15	M	X	H	Large root lifting asphalt parking to 10' from trunk. Sap bleeding from branches. Slightly chlorotic canopy. In proposed building.	Remove.
253	Mulberry	10		G-F	F	15	Y-M	X	H	Slightly chlorotic and sparse at top. Large root under asphalt at 7' to SW. In proposed building.	Remove.
254	Mulberry	11		F	F	15	M	X	H	Slightly sparse & chlorotic canopy (upper with branch twig dieback). In proposed building.	Remove.
255	Mulberry	7		G-F	G-F	8	Y	X	H	Curb lifted 4" to E, asphalt cracked to W. In proposed building.	Remove.
256	Mulberry	7		P	P	8	Y-M	X	H	Slightly sparse & chlorotic canopy with large dead branches and severe cankering on S side of trunk. In proposed building.	Remove.
257	Mulberry	9		F-P	F	8	Y-M	X	H	Slightly sparse & chlorotic canopy with small dead branches. Curb lifted 0.5" to S and 2" to NW. Trunk cankers over entire circumference. In proposed building.	Remove.
258	Mulberry	8		P	F	8	Y-M	X	H	Moderately sparse & chlorotic with branch dieback. Curb and asphalt cracked to NE. In proposed building.	Remove.
259	Mulberry	8		P	P	8	Y-M	X	H	Moderately sparse & chlorotic. Trunk cankers on E/S/W sides of trunk. In proposed building.	Remove.
260	Mulberry	10		VP	VP	6	OM	X	H	Nearly dead, minimal foliage remaining. In proposed building.	Remove.
261	Mulberry	11		P	F-P	10	M-OM	X	H	Sparse canopy with chlorotic foliage and deadwood. Root shaped lifting of asphalt to SW. In proposed building.	Remove.
262	Mulberry	12	X	F	F	15	M	X	H	Curb appears new. Asphalt lifted to NE and SW in shape of root. In proposed building.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
263	Mulberry	7		F	F	12	Y	X	H	Canopy slightly sparse. Canker along entire N side of trunk. In proposed building.	Remove.
264	Mulberry	10		P	F-P	15	M	X	H	Moderately sparse & chlorotic with large diameter dieback. Roots lifting asphalt to N and E. In proposed building.	Remove.
265	Mulberry	7.5		G-F	F	12	Y-M	X	H	Root under asphalt to SE. In proposed building.	Remove.
266	Mulberry	9.5		G-F	F	12	M	X	H	Upper canopy slightly sparse. In proposed building.	Remove.
267	Mulberry	10.5		G-F	F	15	M	X	H	Upper canopy slightly sparse. In proposed building.	Remove.
268	Mulberry	12	X	F	F	15	M	X	H	Upper canopy slightly sparse with minor branch dieback. In proposed building.	Remove.
269	Mulberry	7		G-F	F	15	Y-M	X	H	Upper canopy slightly sparse and chlorotic. In proposed building.	Remove.
270	Mulberry	10		F-P	F	10	Y-M	X	H	Sparse, stunted and chlorotic canopy. Dead bark on entire S side of trunk. In proposed building.	Remove.
271	Mulberry	6		F-P	F	6	Y	X	H	Moderately sparse, stunted & chlorotic canopy with top dieback. In proposed building.	Remove.
272	Mulberry	9		P	F	8	Y-M	X	H	Moderately sparse, stunted & chlorotic canopy. Asphalt parking space cracked to NW; 5" scaffold root to E along curb; curb cracked at 15' to S. In proposed building.	Remove.
273	Mulberry	6		F	F	8	Y-M	X	H	Slightly sparse and chlorotic canopy. In proposed drive aisle.	Remove.
274	Mulberry	6		F/F-P	G	12	Y-M	X	H	Sparse and chlorotic canopy with dead branches. Within 1' of proposed drive aisle.	Remove.
275	Mulberry	6		F-P	F	8	Y-M	X	H	Sparse, chlorotic and stunted growth. Curb lifted 0.5". Trunk canker on E and W sides. In proposed parking.	Remove.
276	Mulberry	9.5		F-P	F	10	M	X	H	Moderately sparse & chlorotic with small branch dieback in upper crown. Curb cracks with root shaped lift of asphalt. In proposed drive aisle.	Remove.
277	Mulberry	9		P	F	8	Y-M	X	H	Slightly sparse & chlorotic canopy with branch dieback. Curb cracked and lifted 0.5" with root shaped lift of asphalt. Entire trunk cankered on S and W sides. In proposed drive aisle.	Remove.
278	Mulberry	6		F/F-P	F	8 (15W)	Y-M	X	H	Curb cracked and lifted 0.5". Slightly sparse & chlorotic canopy. In proposed drive aisle.	Remove.
279	Mulberry	6		F/F-P	F	10	Y-M	X	H	Slightly sparse & chlorotic canopy. In proposed drive aisle.	Remove.
280	Mulberry	8		G-F	F	10	Y-M	X	H	0.5" lift of curb. Slightly chlorotic folaige. In proposed parking.	Remove.
281	London planetree	10		F	F	10	Y-M	X	H	Canopy imbalanced to S due to building and/or other trees. Minor deadwood in canopy. LCR 50%. In proposed drive aisle.	Remove.
282	London planetree	13	X	G	G	15	M	X	H	Canopy imbalanced to S due to building and/or other trees. Sidewalk cracked and lifted 0.5" at curb. In proposed drive aisle.	Remove.
283	London planetree	8		G-F	G-F	12W	Y-M	X	H	Canopy imbalanced to S due to building and/or other trees. Large surface roots within 3" of trunk, appears to be from tree that was removed. In proposed drive aisle.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
284	London planetree	8.5		G	G	15	Y-M	X	H	Canopy imbalanced to S due to building and/or other trees. In proposed drive aisle.	Remove.
285	London planetree	11		G	G-F	15	Y-M	X	H	Canopy imbalanced to S due to building and/or other trees. In proposed drive aisle.	Remove.
286	London planetree	8.5		G	G-F	12S	Y-M	X	H	Canopy imbalanced to S due to building and/or other trees. Sidewalk cracking along expansion joint. In proposed drive aisle.	Remove.
287	London planetree	12	X	G	G-F	18	M	X	H	Canopy imbalanced to S due to building and/or other trees. In proposed drive aisle.	Remove.
288	London planetree	9.5		G	G-F	20S	Y-M	X	H	Canopy imbalanced to S due to building and/or other trees. 4' long canker / dead bark on SW side of trunk. In proposed drive aisle.	Remove.
289	London planetree	14	X	G	G	18	M	X	H	Canopy imbalanced to S due to building and/or other trees. In proposed drive aisle.	Remove.
290	London planetree	13	X	G	G	20	M	X	H	Canopy imbalanced to S due to building and/or other trees. In proposed drive aisle.	Remove.
291	London planetree	13.5	X	G	G	18	M	X	H	Canopy imbalanced to S due to building and/or other trees. Sidewalk replaced 18" to S. In proposed drive aisle.	Remove.
292	London planetree	12	X	G	G	18	M	X	H	Canopy imbalanced to S due to building and/or other trees. Sidewalk replaced 2' to S. In proposed drive aisle.	Remove.
293	London planetree	12	X	G-F	G-F	18	M	X	H	Canopy imbalanced to S due to building and/or other trees. Sidewalk replaced 2' to S. Moderate small diameter deadwood. In proposed drive aisle.	Remove.
294	London planetree	16	X	G	G	20W/SW	M	X	H	Canopy imbalanced to S due to building and/or other trees. In proposed drive aisle.	Remove.
295	Chinese elm	22	X	F/F-P	F	20	M	X	H	Top sparse with dieback. Multiple stems between 6'-8'. Fully surrounded by hardscape (10' diameter planter) that has been previously ground down with visible root damage. In proposed parking.	Remove.
296	London planetree	16	X	G	G	20	M	X	H	Nice specimen in open lawn. In proposed parking.	Remove.
297	London planetree	17	X	VG	G	25	M	X	H	Nice specimen in open lawn. In proposed parking.	Remove.
298	London planetree	17.5	X	VG	G	20	M	X	H	Nice specimen in open lawn. Sidewalk repaired 20' to SW. In proposed parking.	Remove.
299	London planetree	17.5	X	VG	G	25	M	X	H	Excellent specimen. Within 1' of proposed parking, 4' from proposed TCM.	Remove.
300	Chinese elm	12, 12	X	G	F	25NW 30SW	M	X	H	Codominant stems at 2'. Crowded by ash trees resulting in asymmetrical canopy to W. Fully surrounded by hardscape (10' diameter planter), recently replaced. In proposed parking.	Remove.
301	Evergreen ash	13	X	F/F-P	F-P	18NE	M	X	H	Vertical scaffolds. Sparse canopy and dead branches in upper canopy. In proposed parking.	Remove.
302	Evergreen ash	19.5	X	G-F	P	15	M	X	H	Elongated scaffolds 20' to E, lions' tailed. In proposed parking.	Remove.
303	Evergreen ash	18	X	F-P	F	18E	M	X	H	Very sparse upper canopy with full lower canopy. In proposed parking.	Remove.
304	Evergreen ash	15	X	F	F	15	M	X	H	Slightly sparse canopy. Within 1' of proposed parking.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
305	Evergreen ash	9		P	F-P	15E	Y-M	X	H	Phototropic lean to E with sparse canopy and vigorous lower sprouts. Within 1' of proposed parking.	Remove.
306	Evergreen ash	20.5	X	F-P	F-P	20	M	X	H	Sparse canopy with branch dieback. Previously topped at 18' above grade resulting in vertical scaffolds. In proposed parking.	Remove.
307	Evergreen ash	12	X	P	F-P	15E	Y-M	X	H	Sparse canopy with with significant branch dieback. In proposed drive aisle.	Remove.
308	Evergreen ash	13	X	P	P	10E	Y-M	X	H	LCR 25%, highly reduced & sparse canopy with tip dieback. In proposed drive aisle.	Remove.
309	Evergreen ash	16	X	F-P	F	15	M	X	H	Sparse canopy. Within 1' of proposed parking; 4' from proposed building.	Remove.
310	Evergreen ash	14	X	F-P	F	15	M	X	H	Sparse canopy with tip dieback. In proposed building.	Remove.
311	Evergreen ash	19	X	F-P	F	18	M	X	H	Sparse canopy with tip dieback. In proposed building.	Remove.
312	Evergreen ash	15	X	F-P	F	18	M	X	H	Sparse canopy with dieback. In proposed building.	Remove.
313	Evergreen ash	14	X	F-P	F-P	15	M	X	H	Sparse canopy. In proposed building.	Remove.
314	Evergreen ash	15	X	F-P	P	12	M	X	H	Top dieback. In proposed building.	Remove.
315	Evergreen ash	8		F-P	F	8W	Y	X	H	Top dead. In proposed building.	Remove.
316	Evergreen ash	8.5		F-P	F/F-P	15	Y-M	X	H	Sparse canopy. In proposed building.	Remove.
317	Evergreen ash	16	X	F	F-P	18	M	X	H	Slightly sparse canopy. In proposed building.	Remove.
318	Evergreen ash	17	X	G-F	F	20NSW	M	X	H	Tip dieback, rest of canopy healthy. In proposed building.	Remove.
319	Evergreen ash	12.5	X	P	P	10	M	X	H	Sparse canopy. Top dying back, lower canopy consists of vigorous trunk shoots that will be poorly attached. In proposed building.	Remove.
320	Evergreen ash	16	X	G	G-F	15	M	X	H	In proposed building.	Remove.
321	Evergreen ash	10.5		F	F	12	Y	X	H	Sparse canopy. In proposed building.	Remove.
322	Evergreen ash	15	X	F	F	18	M	X	H	Sparse canopy. In proposed building.	Remove.
323	Evergreen ash	15	X	P	F	15	M	X	H	Sparse canopy (very sparse at top). Concrete lifted and ground down. In proposed building.	Remove.
324	Evergreen ash	12	X	F-P	F	15	Y-M	X	H	Sparse canopy. In proposed building.	Remove.
325	Evergreen ash	15	X	F/F-P	F	18	M	X	H	Sparse canopy with tip dieback. In proposed building.	Remove.
326	Evergreen ash	16	X	G-F	F	18W	M	X	H	In proposed building.	Remove.
327	Evergreen ash	13	X	P	F-P	12	M	X	H	Fairly sparse canopy with stunted growth and dieback. Epicormic shoots starting to replenish lower canopy. In proposed building.	Remove.
328	Evergreen ash	17.5	X	P	F-P	18	M	X	H	Significantly sparse canopy. In proposed building.	Remove.
329	Evergreen ash	12.5	X	F-P	F	25E	M	X	H	Sparse canopy. Phototropic lean to E. In proposed building.	Remove.
330	Evergreen ash	12.5	X	F-P	F	15	M	X	H	Moderately sparse upper canopy, vigorous lower epicormic shoots to replenish canopy. In proposed building.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
331	Evergreen ash	14	X	F-P	F	15E	M	X	H	Sparse canopy. In proposed building.	Remove.
332	Evergreen ash	16	X	G	F	18W	M	X	H	Phototropic lean to W. Root shaped lift of adjacent asphalt. In proposed building.	Remove.
333	Evergreen ash	12	X	F/F-P	F	15SE	Y-M	X	H	Slightly sparse canopy. In proposed building.	Remove.
334	Evergreen ash	9.5		F/F-P	F/F-P	20SW	Y-M	X	H	Phototropic lean to SE; slightly sparse at tips. In proposed building.	Remove.
335	Evergreen ash	14.5	X	G-F	G-F	15	M	X	H	Slightly sparse & chlorotic canopy. In proposed drive aisle.	Remove.
336	Evergreen ash	9		P	F-P	8	Y-M	X	H	Top dead, sparse canopy. In proposed drive aisle.	Remove.
337	Evergreen ash	12	X	G-F	F	15	Y-M	X	H	Slightly sparse at top. In proposed drive aisle.	Remove.
338	Evergreen ash	14	X	P	F-P	18	M	X	H	Moderately sparse canopy with small branch dieback. In proposed drive aisle.	Remove.
339	Evergreen ash	13	X	F-P	F	18E	M	X	H	Sparse canopy. Phototropic lean to SE. In proposed drive aisle.	Remove.
340	Evergreen ash	16	X	P	F-P	15	M	X	H	Moderately sparse canopy with branch dieback. In proposed drive aisle.	Remove.
341	London planetree	10		G-F	G-F	15	Y-M	X	H	Slightly sparse canopy. In proposed drive aisle.	Remove.
342	London planetree	9		G-F	F	12	Y-M	X	H	Slightly sparse canopy. In proposed drive aisle.	Remove.
343	London planetree	10.5		G-F	G-F	12	Y-M	X	H	Slightly sparse canopy. In proposed drive aisle.	Remove.
344	London planetree	12	X	G-F	G-F	15	Y-M	X	H	Slightly sparse canopy. In proposed drive aisle.	Remove.
345	London planetree	11.5		G-F	G-F	15	Y-M	X	H	Slightly sparse canopy. In proposed drive aisle.	Remove.
346	London planetree	12	X	G-F	G-F	15	Y-M	X	H	Slightly sparse canopy. In proposed drive aisle.	Remove.
347	London planetree	12	X	G-F	F	15	Y-M	X	H	Slightly sparse canopy. In proposed drive aisle.	Remove.
348	London planetree	11		G-F	F	15	Y-M	X	H	Slightly sparse canopy. In proposed drive aisle.	Remove.
349	London planetree	15	X	F	F	15	Y-M	X	H	Slightly sparse canopy. In proposed drive aisle.	Remove.
350	London planetree	13.5	X	G	F	15	Y-M	X	H	Slightly sparse canopy. In proposed building.	Remove.
351	London planetree	10		G-F	F	12	Y-M	X	H	Slightly sparse canopy. In proposed building.	Remove.
352	London planetree	10		G-F	F	12	Y-M	X	H	Slightly sparse canopy. In proposed building.	Remove.
353	London planetree	13.5	X	G-F	G-F	15	Y-M	X	H	Slightly sparse canopy. In proposed building.	Remove.
354	London planetree	12	X	G-F	F	12	Y-M	X	H	Slightly sparse canopy. In proposed building.	Remove.
355	London planetree	15.5	X	G	G-F	20	M	X	H	Crack in curb. In proposed building.	Remove.
356	London planetree	14.5	X	G	G-F	18	M	X	H	In proposed building.	Remove.
357	London planetree	11.5		G	F	18	Y-M	X	H	In proposed building.	Remove.
358	London planetree	11		G	G-F	18	Y-M	X	H	In proposed building.	Remove.
359	London planetree	14	X	G-F	G-F	15	Y-M	X	H	In proposed building.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
360	Mulberry	12.5	X	F	F	20	M	X	H	Slightly sparse & chlorotic canopy, dead branches in upper canopy. Crack in curb and significant lifting of asphalt to NE (large root to 20'). In proposed building.	Remove.
361	Mulberry	12.5	X	P	P	8	M-OM	X	H	Very sparse & chlorotic canopy with branch dieback. Minor asphalt cracking. Trunk cankers and sunburn on scaffold branches. In proposed building.	Remove.
362	Mulberry	10		F	F	12	M	X	H	Sparse & chlorotic canopy with dead scaffold to N. Curb lifted by 0.5" with roots damaging asphalt to N/E/S. In proposed building.	Remove.
363	Mulberry	11.5		F/F-P	F	15	M	X	H	2" curb lift. Dead leaders with sparse and chlorotic upper canopy. Trunk cankers to E and S. In proposed building.	Remove.
364	Mulberry	9.5		F/F-P	F	15	M	X	H	Dead leaders with sparse and chlorotic upper canopy. Trunk cankers to E and S. In proposed building.	Remove.
365	Mulberry	9.5		F	F	15	M	X	H	Slightly chlorotic foliage. Curb cracked. In proposed building.	Remove.
366	Mulberry	13.5	X	F-P	F	18	M	X	H	Minor curb lift. Top slightly sparse, stunted and chlorotic. In proposed building.	Remove.
367	Mulberry	10		G-F	F	15	M	X	H	Chlorotic foliage. Asphalt lifted and curb cracked. In proposed building.	Remove.
368	Mulberry	11		F-P	F	15	M	X	H	Top sparse and chlorotic with dieback. Trunk canker to S. Asphalt damaged to NE, N, S, W and curb shifted 2". In proposed building.	Remove.
369	Mulberry	13	X	P/P-VP	F-P	12	M	X	H	Moderately sparse, stunted and chlorotic with significant deadwood. Curb lifted, signficant asphalt damage to W. S side of trunk severely cankered. In proposed building.	Remove.
370	Mulberry	13	X	F-P	F/F-P	12	M	X	H	Moderately sparse & chlorotic with branch dieback. Curb lifted (previously replaced, roots damaged). In proposed building.	Remove.
371	Mulberry	10		P	P	10	M-OM	X	H	S side of trunk severely cankered. Very slightly sparse & chlorotic canopy. Root damage to asphalt to W. In proposed building.	Remove.
372	Mulberry	9.5		P	F-P	10	M	X	H	Very sparse & chlorotic canopy. Root damaging asphalt to SW. Entire trunk circumference of trunk cankered. In proposed building.	Remove.
373	Mulberry	11.5		F	F	18	M	X	H	Top slightly sparse and chlorotic. In proposed building.	Remove.
374	Mulberry	11.5		G-F	F	15	M	X	H	Top slightly sparse and chlorotic, elongated branch to SE. Curb lifted and cracked. In proposed building.	Remove.
375	Mulberry	15	X	F/F-P	F	15	M	X	H	Significant root damage of asphalt to N/NE. Chlorotic canopy with branch tip dieback. In proposed building.	Remove.
376	Mulberry	7		F/F-P	F	8	Y-M	X	H	Stunted and chlorotic canopy. In proposed building.	Remove.
377	Mulberry	10.5		P	F	10	M	X	H	Moderately sparse & chlorotic. N/E/S sides of trunk cankered with dead bark. In proposed building.	Remove.
378	Mulberry	9		F	F	12	Y-M	X	H	In proposed building.	Remove.
379	Mulberry	11.5		F	F	15	M	X	H	Chlorotic canopy with minor tip dieback. In proposed building.	Remove.
380	Mulberry	10		F	F	12	M	X	H	Curb replaced around tree, asphalt damaged to E and W. Chlorotic foliage, stunted at top. In proposed building.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
381	Mulberry	6		P	P	8	Y	X	H	Moderately sparse & chlorotic canopy with top dieback. In proposed building.	Remove.
382	Mulberry	4.5		P	F	8	Y	X	H	Moderately sparse & chlorotic canopy. 1" lift of curb, asphalt damage by roots, concrete debris in planter. In proposed building.	Remove.
383	Mulberry	7.5		F	F	12	Y-M	X	H	Chlorotic and sparse canopy at top. In proposed drive aisle.	Remove.
384	Mulberry	5.5		F-P	F	8	Y	X	H	Moderately sparse & chlorotic canopy, trunk cankered to NE. 1" lift of curb to S. In proposed drive aisle.	Remove.
385	Erect hornbeam (*Carpinus betulus* 'Fastigiata')	5.5		G	G	6	M	X	H	Trunk flare damaged by mower. In proposed TCM area.	Remove.
386	Erect hornbeam	5		G	G	6	M	X	H	Trunk flare damaged by mower. In proposed TCM area.	Remove.
387	Erect hornbeam	4		G	G	6	M	X	H	Trunk flare damaged by mower. In proposed TCM area.	Remove.
388	Erect hornbeam	6		G	G	6	M	X	H	Trunk flare damaged by mower. In proposed TCM area.	Remove.
389	Erect hornbeam	5		G	G	6	M	X	H	Trunk flare damaged by mower. In proposed TCM area.	Remove.
390	Erect hornbeam	4.5		F	G	5	M	X	H	Leaf margins burnt. 3' from proposed parking; 3' from proposed TCM.	Remove.
391	Erect hornbeam	5		G	G	6	M	X	H	3' from proposed parking; 3' from proposed TCM.	Remove.
392	Erect hornbeam	4		F-P	G	4	M	X	H	Tag on NE side of trunk due to branches. Leaves significantly burned. Root flare exposed by irrigation. 3' from proposed parking; 3' from proposed TCM.	Remove.
393	Erect hornbeam	4.5		G	G	5	M	X	H	In proposed TCM area.	Remove.
394	Erect hornbeam	6		G	G	6	M	X	H	In proposed TCM area.	Remove.
395	Erect hornbeam	3.5		G-F	G	4	M	X	H	Entire berm to be graded down.	Remove.
396	Erect hornbeam	5.5		G	G	5	M	X	H	In proposed building.	Remove.
397	Erect hornbeam	4		G-F	G	4	M	X	H	Slightly chlorotic canopy. Trunk flare exposed by irrigation or planted too high. In proposed building.	Remove.
398	Erect hornbeam	6.5		G	G	5	M	X	H	Entire berm to be graded down.	Remove.
399	Erect hornbeam	5		G	G	6	M	X	H	In proposed building.	Remove.
400	Erect hornbeam	5		G	G	6	M	X	H	In proposed building.	Remove.
401	Erect hornbeam	7		G	G	6	M	X	H	In proposed building.	Remove.
402	Erect hornbeam	5.5		G	G	8	M	X	H	In proposed building.	Remove.
403	Erect hornbeam	7		G	G	6	M	X	H	In proposed building.	Remove.
404	Erect hornbeam	5		F	G	5	M	X	H	Slightly sparse canopy. In proposed building.	Remove.
405	Erect hornbeam	7		G	G	6	M	X	H	In proposed building.	Remove.
406	Erect hornbeam	7		G	G	5	M	X	H	Bleeding from attachment of codominant stems. In proposed building.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
407	Erect hornbeam	5		G	G	5	M	X	H	In proposed building.	Remove.
408	Erect hornbeam	5		G	G	4	M	X	H	In proposed building.	Remove.
409	Erect hornbeam	3		F-P	G	3	M	X	H	Burnt foliage, stunted growth. In proposed building.	Remove.
410	European hornbeam (*Carpinus betulus*)	4, 2.5, 2.5, 2.5		G	G	7	M	X	H	Slightly chlorotic foliage. In proposed building.	Remove.
411	Erect hornbeam	2.5		P	G	2	M	X	H	Very stunted (especially if planted at same time as others). Sparse and chlorotic canopy. In proposed building.	Remove.
412	Erect hornbeam	3.5		G	G	6	M	X	H	In proposed building.	Remove.
413	Erect hornbeam	5.5		G	G	7	M	X	H	In proposed building.	Remove.
414	Erect hornbeam	5, 3		F	G	7	M	X	H	Burnt leaf margins. In proposed building.	Remove.
415	Erect hornbeam	5		F/F-P	G-F	6	M	X	H	Chlorotic and sparse with half of canopy missing. In proposed building.	Remove.
416	London planetree	15.5	X	G-F	G	15	M	X	H	Crowded from W by massive oaks. In proposed patio.	Remove.
417	London planetree	10.5		G-F	F	10E	Y-M	X	H	Crowded from W by massive oaks. Entire berm to be graded down.	Remove.
418	London planetree	9.5		G-F	F	12E	Y-M	X	H	Crowded from W by massive oaks. Entire berm to be graded down.	Remove.
419	London planetree	9.5		G-F	F	15E	Y-M	X	H	Crowded from W by massive oaks. Entire berm to be graded down.	Remove.
420	London planetree	12.5	X	G-F	F	15E	M	X	H	Crowded from W by massive oaks. Entire berm to be graded down.	Remove.
421	London planetree	9		G-F	F	12E	Y-M	X	H	Crowded from W by massive oaks. Entire berm to be graded down.	Remove.
422	London planetree	12	X	G-F	F	15E	M	X	H	Crowded from W by massive oaks. Entire berm to be graded down.	Remove.
423	London planetree	12.5	X	G-F	F/F-P	15S	M	X	H	Crowded from W by massive oaks. Phototropic lean to S. Entire berm to be graded down.	Remove.
424	London planetree	9.5		F	F	15E	Y-M	X	H	Crowded from W by massive oaks. Sparse canopy. Entire berm to be graded down.	Remove.
425	London planetree	6		G-F	F	10S	Y	X	H	Crowded from W by massive ashes. Entire berm to be graded down.	Remove.
426	London planetree	5		F	F-P	10E	Y	X	H	Crowded from W by massive ashes. Entire berm to be graded down.	Remove.
427	London planetree	9		F	F	15E	Y-M	X	H	Crowded from W by massive ashes. Entire berm to be graded down.	Remove.
428	London planetree	15.5	X	G-F	F	18E	M	X	H	Crowded from W by massive ashes. Entire berm to be graded down.	Remove.
429	London planetree	5.5		F	F-P	10SE	Y	X	H	Crowded from W by massive ashes. Phototropic lean to S with LCR 25%. Entire berm to be graded down.	Remove.
430	London planetree	8		F	F	15E	Y-M	X	H	Crowded from W by massive ashes. Entire berm to be graded down.	Remove.
431	London planetree	7		G-F	F	12E	Y	X	H	Crowded from W by massive ashes. Entire berm to be graded down.	Remove.
432	London planetree	11		G-F	F	18E	M	X	H	Crowded from W by massive ashes. Entire berm to be graded down.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
433	Red oak (*Quercus rubra*)	28	X	G-F	G-F	25	M	X	H	Outer canopy bushy and healthy due to branch reduction; inner canopy sparse with dieback. Moderate large deadwood in upper canopy. Pushing out curb by 0.25" and cracking street. Canopy more dominant over street due to previous pruning away from sycamores. New sidewalk in street, adjacent berm to be graded down and area around tree converted to decomposed granite; patio 20' to N.	Install temporary fencing, arborist on site during berm & sidewalk grading. Leave large roots intact; work decomposed granite around them.
434	Red oak	27	X	G-F	G-F	25ESW	M	X	H	No canopy to N. Fire hydrant at 3' to SW. Minor dead branches at tip; upper interior canopy sparse. New sidewalk in street, adjacent berm to be graded down and area around tree converted to decomposed granite.	
435	Red oak	28	X	G	G-F	25	M	X	H	Large 4" root parallel to curb, visible swerve where it has been pushed out. New sidewalk in street, adjacent berm to be graded down and area around tree converted to decomposed granite.	Install temporary fencing, arborist on site during berm & sidewalk grading. Leave large roots intact; work decomposed granite around them.
436	Evergreen ash	30.5	X	P	F	20	M-OM	X	H	Sparse canopy with stunted chlorotic growth; not many vigorous epicormic shoots. Large girdling root to N. Curb section lifted 4" above asphalt. High voltage box 10' to S. New sidewalk in street, adjacent berm to be graded down and area around tree converted to decomposed granite.	
437	Evergreen ash	27.5	X	P	F	18	M-OM	X	H	Sparse canopy with large deadwood. Large 6" root parallel to curb at about 4' to NW. High voltage box 10' to N. New sidewalk in street, adjacent berm to be graded down and area around tree converted to decomposed granite.	
438	Evergreen ash	40.5	X	F	F/F-P	20ESW	M	X	H	Slightly sparse canopy. No foliage to N. Multiple crowded stems between 7'-15' above grade. Large deadwood to W (bark falling off stem). Base of tree obscured by shrub. Curb cracked by trunk and another section lifted by 2" at asphalt. Utility box at 10' to S. Some failures in upper canopy. New sidewalk in street, adjacent berm to be graded down and area around tree converted to decomposed granite.	
439	Evergreen ash	30.5	X	G-F	F/F-P	20	M	X	H	Irrigation boxes 6' to N, unmarked utility box 3' to S. Curb pushed out 0.25". Multiple codominant stems at 8'. Twig dieback and small branch in upper canopy, otherwise canopy is full. New sidewalk in street, adjacent berm to be graded down and area around tree converted to decomposed granite.	
440	Evergreen ash	51.5	X	F/F-P	F/F-P	28	M	X	H	Massive tree. Slightly sparse canopy. Multiple stems at 10' with interior branches missing. Root mass 1' above curb, pushing out curb by 1". Engulfing fire sprinkler and lifting an irrigation control valve box and the high voltage box 2' to E (patched with concrete). In proposed driveway.	Remove.
441	Evergreen ash	29.5	X	G	F	25ESW	M	X	H	Surface roots at curb slightly pushing it out. Canopy imbalanced to S. Lion's tailed. New sidewalk in street, curving towards tree at ~6' to N (equidistant to #440), adjacent berm to be graded down and area around tree converted to decomposed granite.	Install temporary fencing, arborist on site during berm & sidewalk grading. Leave large roots intact; work decomposed granite around them.
442	Evergreen ash	32.5	X	F	G-F	25	M	X	H	Interior canopy slightly thin. Large surface roots. Curb cracked and lifted 1.5" above asphalt. Missing interior branches. Within 1' of proposed entryway.	Remove.
443	Evergreen ash	30	X	F	F	28	M	X	H	DBH estimated due to dense shrub, tag on SW side facing curb. Sparse canopy especially at top. In proposed entryway.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
444	Evergreen ash	24	X	P	F	20ESW	M-OM	X	H	DBH estimated due to dense shrub, tag on SW side facing curb. Upper canopy very sparse with tip dieback all over. Slightly fuller below from epicormic shoots. 5' from proposed sidewalk curve; 8' from proposed patio.	Remove.
445	Evergreen ash	34	X	G-F	F	20	M	X	H	Curb cracked. Large surface roots. Upper canopy slightly sparse with branch dieback to W over street. New sidewalk in street and curving into landscape at 25' to S, adjacent berm to be graded down and area around tree converted to decomposed granite;	Install temporary fencing, arborist on site during berm & sidewalk grading. Leave large roots intact; work decomposed granite around them.
446	London planetree	9.5		G-F	F	15E	Y	X	H	Crowded by ash. Entire berm to be graded down; 3' from proposed TCM.	Remove.
447	London planetree	8		F	F-P	12E	Y	X	H	Dominated by ash. 4' from proposed TCM, 3' from proposed entryway, berm to be graded down.	Remove.
448	London planetree	8		F	F	15E	Y	X	H	Dominated by ash, overpruned. In proposed entryway.	Remove.
449	London planetree	7.5		G-F	F	15E	Y	X	H	Crowded by ash. In proposed entryway.	Remove.
450	London planetree	7		F	F-P	8	Y	X	H	Crowded by ash. Odd structure, lions tailed and overpruned. In proposed patio.	Remove.
451	London planetree	7		G-F	F	12	Y	X	H	Crowded by ash. 4' from proposed patio; entire berm to be graded down.	Remove.
452	London planetree	5		G-F	F	10E	Y	X	H	Dominated by ash. Entire berm to be graded down.	Remove.
453	London planetree	7		G-F	F	12E	Y	X	H	Crowded by ash. LCR 33%. Entire berm to be graded down.	Remove.
454	London planetree	13.5	X	G	G	18	M	X	H	Entire berm to be graded down.	Remove.
455	London planetree	11.5		G	G	18	M	X	H	Entire berm to be graded down.	Remove.
456	London planetree	14	X	G	G	15	M	X	H	Entire berm to be graded down.	Remove.
457	London planetree	14	X	G	G	18	M	X	H	Entire berm to be graded down.	Remove.
458	London planetree	15	X	G	G	18	M	X	H	Entire berm to be graded down.	Remove.
459	London planetree	13.5	X	G	G	15	M	X	H	Entire berm to be graded down.	Remove.
460	London planetree	16.5	X	G	G	15	M	X	H	Entire berm to be graded down.	Remove.
461	Red oak	1		F-P	G	2	Y	X	H	Newly planted tree. Interveinal chlorosis. In proposed sidewalk.	To be relocated on site.
462	London planetree	11		G	G-F	15	M	X	H	Minor phototropic lean to E (due to tree that has been removed). Entire berm to be graded down.	Remove.
463	London planetree	12	X	G	F	15	M	X	H	Minor phototropic lean to E (due to tree that has been removed). Entire berm to be graded down.	Remove.
464	London planetree	13.5	X	G	G-F	18	M	X	H	Entire berm to be graded down.	Remove.
465	Red oak	1		G	G	2	Y	X	H	Newly planted tree. Leaf burn on lower 3' (maybe from sprinkler irrigation impact). In proposed sidewalk.	To be relocated on site.
466	London planetree	14	X	G	G	15	M	X	H	Entire berm to be graded down.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
467	London planetree	17.5	X	G	G	20	M	X	H	Entire berm to be graded down.	Remove.
468	London planetree	15	X	G-F	G	15	M	X	H	Slightly sparse canopy. Narrow tree planter. 2' from proposed building.	Remove.
469	London planetree	7		F	F	12SE	Y	X	H	Narrow tree planter. Phototropic lean to SE, crowded by adjacent trees. In proposed building.	Remove.
470	London planetree	11.5		G	G	15	M	X	H	Narrow tree planter. In proposed building.	Remove.
471	Evergreen ash	33	X	G-F	F	25S/W	M	X	H	Asymmetrical canopy to S and W. Nitrogen pipeline 5' to NE, utility box 2' to N. Trunk flare buried by fill. Slightly sparse canopy. In proposed drive entry.	Remove.
472	London planetree	13.5	X	G-F	G	15	M	X	H	Irrigation valve box 6" to N, curb lifted by 0.25". In proposed drive aisle.	Remove.
473	London planetree	13	X	P/P-VP	F-P	6	M-OM	X	H	Minimal foliage remaining, mostly deadwood or a few leaves on branches. May be due to crowded by ash. In proposed drive aisle.	Remove.
474	Evergreen ash	19.5, 13	X	F-P	F	25s	M	X	H	Phototropic lean to S. Large surface roots lifting curb 1" and circling tree #473. Sparse canopy. Large secondary branch at 3.5' above grade. In proposed drive aisle.	Remove.
475	Evergreen ash	9.5		F	F-P	15S	Y	X	H	Fully understory tree with kink in trunk from 8'-12'. In proposed drive aisle.	Remove.
476	Evergreen ash	6.5		F/F-P	F	10	Y	X	H	Understory tree, 15' elongated Codominant stem to S. In proposed drive aisle.	Remove.
477	London planetree	12.5	X	F	F	18	M	X	H	Sparse canopy. In proposed drive aisle.	Remove.
478	Evergreen ash	11.5, 17	X	F/F-P	F	20	M	X	H	Sparse upper canopy. Large secondary stem at 18" above grade. In proposed drive aisle.	Remove.
479	London planetree	12	X	F	F	15	M	X	H	Sparse canopy. In proposed drive aisle.	Remove.
480	London planetree	18	X	G	G	20	M	X	H	In proposed drive aisle.	Remove.
481	Coast redwood	16.5	X	P/P-VP	G	8	M	X	H	Very sparse and stunted - likely salt damage from recycled water. 4' from proposed TCM.	Remove.
482	Coast redwood	23.5	X	P/P-VP	G	10	M	X	H	Very sparse and stunted - likely salt damage from recycled water. 3' from proposed TCM.	Remove.
483	Holly oak (*Quercus ilex*)	9.5		G-F	G-F	20S	Y	X	H	Asymmetrical canopy due to crowding, top slightly sparse. Trunk damaged at 4.5' to S. In proposed drive aisle.	Remove.
484	Valley oak	8.5		G	G	8	Y	X	H	Roots washed out by sprinklers at base. In proposed drive aisle.	Remove.
485	Holly oak	15.5	X	G	G-F	18	M	X	H	Slightly sparse on N side. In proposed drive aisle.	Remove.
486	Holly oak	14.5	X	G	G-F	20	M	X	H	In proposed drive aisle.	Remove.
487	Valley oak	10		G	VG	15	Y	X	H	Spray head at base of trunk. In proposed drive aisle.	Remove.
488	Holly oak	10.5		G-F	G-F	18	M	X	H	Slightly wilted foliage. Minor lean to S. In proposed drive aisle.	Remove.
489	Holly oak	19	X	G	G-F	20	M	X	H	Slightly over raised. In proposed drive aisle.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
490	Water gum (*Tristaniopsis laurina*)	4		F-P	G	4	Y	X	H	Planted tree with sparse canopy, doesn't seem to be establishing. In proposed drive aisle.	Remove.
491	Water gum	3		F/F-P	F-P	3	Y	X	H	Sparse canopy. Large girdling roots surrounding over half of trunk. In proposed drive aisle.	Remove.
492	Water gum	3.5		P	F-P	3	Y	X	H	Underperforming planted tree. Very sparse canopy. In proposed drive aisle.	Remove.
493	Valley oak	4		F	G-F	8	Y	X	H	Young planted tree. Crowded by larger trees. In proposed drive aisle.	Remove.
494	Coast live oak	8.5		G	F-P	20S	Y	X	H	Understory tree with signficiant phototropic lean to S. Vigorous 5' long new growth. In proposed drive aisle.	Remove.
495	Evergreen ash	19	X	G-F	F	20S/W 15N	M	X	H	Asymmetrical canopy to NW due to crowding. No canopy to E. In proposed drive aisle.	Remove.
496	Evergreen ash	15.5	X	G-F	F/F-P	15S	M	X	H	LCR 33%. In proposed drive aisle.	Remove.
497	Evergreen ash	20	X	G	F-P	20	M	X	H	Multiple codominant vertical stems at 6' above grade. In proposed drive aisle.	Remove.
498	Forest Pansy redbud (*Cercis canadensis* 'Forest Pansy')	2		G-F	G	6	Y	X	H	Young planted tree. In proposed drive aisle.	Remove.
499	Forest Pansy redbud	1.5		F	G	6	Y	X	H	Young planted tree. In proposed drive aisle.	Remove.
500	Holly oak	15.5	X	G-F	G	15	M	X	H	Overpruned (lion's tailed) with epicormic re-growth. Multiple closed cankers around base. In proposed drive aisle.	Remove.
501	Evergreen ash	12.5, 10.5	X	F	F	20S/W	M	X	H	Moderately sparse canopy. Codominant stems at 1' above grade. In proposed drive aisle.	Remove.
502	Evergreen ash	13.5, 8	X	G-F	F	18	M	X	H	In proposed drive aisle.	Remove.
503	Evergreen ash	11		F/F-P	F	15	M	X	H	Sparse canopy. In proposed drive aisle.	Remove.
504	Evergreen ash	7, 9	X	F/F-P	F/F-P	18 E/SE	M	X	H	Sparse canopy imbalanced to E. Codominant stems at 3' with moderate bark inclusion. Large girdling root to E, engulfing drip hosing. In proposed drive aisle.	Remove.
505	Holly oak	10		G-F	F/F-P	15S	Y	X	H	Dominated by ash. In proposed drive aisle.	Remove.
506	Evergreen ash	14, 16	X	G-F	F	20ESW	M	X	H	Codominant stems at 3' above grade. Curb cracked. In proposed drive aisle.	Remove.
507	Ginkgo (*Ginkgo biloba*)	3		G	G-F	6E/S	Y	X	H	Young planted tree. Overraised. In proposed drive aisle.	Remove.
508	Ginkgo	2.5		F-P	F	6E/S	Y	X	H	Planted, overraised. Chlorotic foliage. In proposed drive aisle.	Remove.
509	Evergreen ash	9, 6	X	F	F	15	M	X	H	Large secondary stem at 18". Crowded from E. In proposed drive aisle.	Remove.
510	Evergreen ash	9, 9	X	G	F	18	M	X	H	Codominant stems at 3.5'. In proposed drive aisle.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
511	Evergreen ash	10.5, 9.5	X	F	F	18	M	X	H	Slightly sparse canopy. Codominant stems at 18". In proposed drive aisle.	Remove.
512	Evergreen ash	8, 10	X	G	F/F-P	20S	M	X	H	Codominant stems at 1'. N stem failed at 10' with new sprout assuming leader and S stem elongated over structure. In proposed drive aisle.	Remove.
513	Coast live oak	15	X	G	G-F	15N,12	Y-M	X	H	Codominant stems at 4.5'. In proposed drive aisle.	Remove.
514	Evergreen ash	7, 9	X	F-P	F/F-P	18N15ES	M	X	H	Codominant stems at 3' with bark inclusion. Large circling root growing to S. Sparse canopy. In proposed drive aisle.	Remove.
515	Holly oak	6		P	F-P	18S	Y	X	H	Sparse canopy with stunted growth and burnt leaf tips. In proposed drive aisle.	Remove.
516	Holly oak	6.5		G	G-F	10	Y	X	H	Crowded by adjacent trees. In proposed drive aisle.	Remove.
517	Holly oak	8		G	G	10	Y-M	X	H	In proposed drive aisle.	Remove.
518	Ginkgo	1		P	F	1	Y	X	H	Stunted, never properly established. Understory tree. In proposed drive aisle.	Remove.
519	Ginkgo	3.5		G-F	F-P	15S	Y	X	H	Young planted tree, still has stake. Chlorotic and slightly sparse canopy. In proposed drive aisle.	Remove.
520	Ginkgo	3.5		G-F	G	8	Y	X	H	Stunted and chlorotic foliage but otherwise healthy. In proposed drive aisle.	Remove.
521	Holly oak	16	X	P	F	20	M-OM	X	H	Fairly sparse canopy with tip dieback and stunted growth. In proposed drive aisle.	Remove.
522	Valley oak	16.5	X	G/G-F	G-F	20	M	X	H	Center of canopy slightly sparse. All stems arise at 8' above grade. In proposed drive aisle.	Remove.
523	Holly oak	12	X	F-P	F	18ESW	M	X	H	Sparse upper canopy. In proposed drive aisle.	Remove.
524	Holly oak	9		G-F	G-F	8	Y	X	H	Slightly sparse canopy. 6' long canker on SW side of trunk. In proposed drive aisle.	Remove.
525	Valley oak	7		G-F	F	15SW	Y	X	H	Trunk flush to adjacent tree. Gaps in canopy due to competition from #526. 3' from proposed parking space.	Remove.
526	Holly oak	5		F-P	F	15N/W	Y-M	X	M	Sparse canopy especially upper with stunting. Codominant stems at 1' above grade. 3' from proposed parking space.	Remove (per team).
527	Holly oak	3, 4		G	F	8	Y	X	H	Between #239 and 240 (missed first time around). In proposed drive aisle.	Remove.
528	Valley oak	3		G	G	6	Y	X	H	Not surveyed; understory tree, east of #239 (missed first time around). In proposed drive aisle.	Remove.
529	Valley oak	15, 23.5, 10	X	G-F	F	25	M	X	H	Slightly sparse canopy. Multiple stems between grade and 6' above grade. Approx. 8' from concrete pad. In proposed drive aisle.	Remove.
530	Valley oak	11, 13	X	F	F	15ESW	M	X	H	Codominant trunks, covered in ivy, spreading to E and W due to crowding. 2' from proposed drive aisle.	Remove.
531	Valley oak	12	X	F	P	8SW	M		L	DBH estimated due to ivy. Canopy consists of single dog-leg branch to SW. 14' from proposed drive aisle.	Install temporary fencing.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
532	Valley oak	16	X	G-F	F-P	20E	M	X	M-H	Phototropic lean to E. Ivy climbing trunk. 6' from proposed drive aisle.	
533	Evergreen pear	9		G-F	G	10	M	X	L	Off-site, DBH estimated, 2' from fence. Minor fire blight. 8' from proposed drive aisle (similar landscape area to existing).	
534	Evergreen pear	9		G-F	G	10	M	X	L	Off-site, DBH estimated, 2' from fence. Minor fire blight. 8' from proposed drive aisle (similar landscape area to existing).	
535	Evergreen pear	11		G	G	15	M	X	L-M	Off-site, DBH estimated, 2' from fence. Minor leaf spot. 7' from proposed drive aisle (similar landscape area to existing).	
536	London planetree	12	X	G	F		M	X	L	Off-site, DBH estimated, 2' from fence. 45° phototropic lean to S, starting to correct. 13' from proposed drive aisle.	
537	Evergreen pear	7		F	F	10	Y-M		L	Off-site, DBH estimated, 2' from fence. Slightly sparse canopy. Clear of construction.	
538	Evergreen pear	7		G-F	F	12S	Y-M		L	Off-site, DBH estimated, 2' from fence. Phototropic lean to S due to crowding. Behind #539. Clear of construction.	Install temporary fencing.
539	Coast live oak	6		G	G	8	Y		L	Clear of construction.	
540	Coast live oak	5		G-F	G	8	Y		L	Clear of construction.	
541	Evergreen pear	6		G	G-F	8	Y		L	Off-site, DBH estimated, 2' from fence. Clear of construction.	
542	Valley oak	65	X	G	F	35-40	M	X	L	Very old tree. Bleeding in a few spots; cause unknown, may be seasonal slime flux. Trunk buried, potentially significantly. Parking lot curb 10' to SW, asphalt walkway 2' to N, more hardscape starting at 3' to NE and impacting 1/4 of root system. Assumed leased transmission area with no encroachment permitted. No hardscape damage. Several closed cankers on trunk at about 1'-5' above grade. Old failure of scaffold tore out center. Large scaffolds headed back by neighbor for clearance. Existing parking under tree to be converted to landscape area. Updated parking 45' to W.	Install temporary fencing, expand after demolition. Arborist to review all designs and monitor demolition and all work occurring within 60' radius of trunk. Ground-disturbing work within proposed landscape area to be done with air or water assisted tools to preserve all roots. Perform root crown excavation & spread 4"-6" of coarse wood chips over surface.
543	Evergreen pear	10		G-F	G-F	10	M	X	L-M	Off-site, DBH estimated, 2.5' from fence. Minor fire blight. Landscape area will be expanded around this tree.	Install temporary fencing, expand after demolition.
544	Evergreen pear	6		F	F	10 (none W)	Y-M	X	L-M	Off-site, DBH estimated, 2.5' from fence. Moderate fire blight, crowded by oak. Landscape area will be expanded around this tree.	Install temporary fencing, expand after demolition.
545	Holly oak	14	X	F	F	12	M	X	L-M	Trunk crosses fence at 4.5', fence has been welded to create space around tree. Upper canopy sparse and stunted. Trunk canker on N side. Landscape area will be expanded around this tree.	Install temporary fencing, expand after demolition.
546	Holly oak	13	X	P	F	10	M	X	L-M	Sparse canopy, very stunted growth. Epicormic sprouting in lower canopy making it fuller. Landscape area will be expanded around this tree.	Install temporary fencing, expand after demolition.
547	Evergreen pear	9		P	F	15	M	X	L-M	Off-site, DBH estimated, 2.5' from fence. Very chlorotic, burnt, stunted and sparse. Minor tip dieback. Landscape area will be expanded around this tree.	Install temporary fencing, expand after demolition.
548	Evergreen pear	7		G-F	F	12	M	X	L-M	Off-site, DBH estimated, 2.5' from fence. Off color and burnt leaves. Minor tip dieback. Landscape area will be expanded around this tree.	Install temporary fencing, expand after demolition.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
549	Evergreen pear	6		F	F	10	M	X	L-M	Off-site, DBH estimated, 2.5' from fence. Bronzing and tip dieback. Landscape area will be expanded around this tree.	Remove (per team).
550	Evergreen pear	8		G-F	F	15	M	X	L-M	Off-site, DBH estimated, 2.5' from fence. Minor tip dieback, fire blight and bronzing. Landscape area will be expanded around this tree.	Install temporary fencing, expand after demolition.
551	Holly oak	18	X	F/F-P	F	15	M	X	M-H	Bump in asphalt next to tree in line with structural root. Sparse, stunted and chlorotic upper canopy. Landscape area will be expanded around this tree.	Remove (per team).
552	Evergreen pear	7		F	F-P	20S	M		L	Off-site, DBH estimated, 2.5' from fence. Phototropic lean to S. Moderate fire blight. Landscape area will be expanded around this tree.	Install temporary fencing, expand after demolition.
553	Evergreen pear	9		F	F	15S	M		L	Off-site, DBH estimated, 2.5' from fence. Minor fire blight. 6.5' from proposed drive aisle.	Install temporary fencing, expand after demolition.
554	Holly oak	7		G-F	G-F	10	Y	X	M	Upper canopy sparse and stunted. 3' from proposed drive aisle.	Remove (per team).
555	Evergreen pear	8		P	F	12	M	X	L	Off-site, DBH estimated, 2.5' from fence. Chlorotic burnt leaves with branch dieback. 6.5' from proposed drive aisle.	Remove (per team).
556	Evergreen pear	9		G-F	F	15	M	X	L	Off-site, DBH estimated, 2.5' from fence. Moderate fire blight. 6.5' from proposed drive aisle.	Remove (per team).
557	Ironbark eucalyptus (*Eucalyptus sideroxylon*)	28	X	F	F-P	20	M	X	M	Pushing out curb and raising part of asphalt. Evidence of past failures. Codominant stems at 8'. Sparse canopy. Within 1' of proposed drive aisle.	Remove.
558	Evergreen pear	6		G-F	G-F	8	M	X	L	Off-site, DBH estimated, 2.5' from fence. Minor fire blight. 6.5' from proposed drive aisle.	Remove (per team).
559	Ironbark eucalyptus	34.5	X	F-P	F	18NEW	M	X	M	Curb cracked and pushed out. Codominant wide stems at 7'. Sparse canopy. In proposed drive aisle.	Remove.
560	Ironbark eucalyptus	28	X	G	F	20	M	X	M	Curb cracked. Branches were either reduced or they failed; future sprouts will be structurally problematic. In proposed drive aisle.	Remove.
561	Water gum	2		F/F-P	G	2	Y	X	M	Trunk tied to fence; crowded by hedge. In proposed drive aisle.	Remove.
562	Evergreen pear	5		G-F	F	8	Y	X	H	Off-site, DBH estimated, 2.5' from fence. 4' from property line. 2.5' from proposed drive aisle.	Remove (requires owner approval).
563	Evergreen pear	9		G-F	F	15	M	X	H	Off-site, DBH estimated, 2.5' from fence. Elongated branches. 2.5' from proposed drive aisle.	
564	Water gum	2.5		F	G	3	Y	X	H	Sparse canopy. Crowded by hedge. In proposed drive aisle.	Remove.
565	Evergreen pear	11		G	G-F	15	M	X	H	Off-site, DBH estimated, 2' from fence. 2' from proposed drive aisle.	Remove (requires owner approval).
566	Water gum	2		G-F	G	3	Y	X	H	Crowded by hedge and pear. In proposed drive aisle.	Remove.
567	Water gum	2		G	G	3	Y	X	H	Top hedged with 8"-12" regrowth. In proposed drive aisle.	Remove.
568	Water gum	2		F-P	G	2	Y	X	H	Sparse canopy. In proposed gate.	Remove.
569	Coast redwood	18	X	Dead	Dead					Tagged on street side. DBH estimated due to ivy. In proposed walkway.	Remove (dead).

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
570	Coast redwood	18	X	Dead	Dead					Tagged on street side. DBH estimated due to ivy. In proposed walkway.	
571	Coast redwood	27	X	Dead	Dead					Tagged on street side. In proposed landscape area, 13' from proposed walkway.	
572	Holly oak	16.5	X	G-F	G-F	18	M	X	H	Tagged on street side. Very top of tree slightly stunted. In proposed drive entry.	Remove.
573	Holly oak	9		G	G	12	M	X	L-M	Tagged on street side. 5' from proposed sidewalk; parking lot to be replaced by landscape area.	Install temporary fencing, expand after demolition.
574	Holly oak	14	X	G-F	G-F	18	M	X	L-M	Tagged on street side. Top slightly sparse and stunted. 6' from proposed sidewalk; 8' from proposed parking (in existing lot).	
575	Holly oak	14	X	G-F	G-F	15	M	X	L-M	Tagged on street side. Top 1/4 of canopy fairly sparse and stunted. 6' from proposed sidewalk; 8' from proposed parking (in existing lot).	
576	Holly oak	12.5	X	G-F	G-F	15	M	X	L-M	Tagged on street side. Upper canopy stunted and slightly sparse. Utility box 3' from trunk. 6' from proposed sidewalk; landscape area to be enlarged around tree.	Install temporary fencing, expand after demolition.
577	Holly oak	18	X	F/F-P	F	12	M	X		Tagged on street side. Upper half of canopy very sparse. In proposed entryway.	Remove.
578	Holly oak	14	X	Dead	VP	10	OM	X	H	Tagged on street side. Basically dead; only a few leaves left. 1' from proposed sidewalk.	Remove (almost dead).
579	Chinese elm	8.5		G	G-F	16	Y-M	X	L-M	Existing parking to be converted to landscape area; proposed drainage 2' outside existing planter.	Install temporary fencing, expand after demolition.
580	Chinese elm	6		F	G	15	Y	X		Sparse chlorotic canopy. In proposed drive aisle.	Remove.
581	Chinese elm	8.5		G-F	G	15	Y-M	X	H	Sparse chlorotic canopy. In proposed drive aisle.	Remove.
582	Chinese elm	9		G	G	15	M	X	H	Slightly chlorotic. Within 1' of proposed drive aisle.	Remove.
583	Chinese elm	7		G	G	15	Y-M	X	H	In proposed drive aisle.	Remove.
584	Chinese elm	8		G	G-F	15	M	X	H	Elongated branch to E. In proposed drive aisle.	Remove.
585	Coast redwood	16	X	P/P-VP	F	10	Y-M	X	H	Significant recycled water damage. In proposed hardscape/structure.	Remove.
586	Coast redwood	20	X	P/P-VP	F	8	M	X	H	In proposed hardscape/structure.	Remove.
587	Water gum	11.5		G	G	12	M	X	H	Wide codominant stems at 6'. In proposed drive aisle.	Remove.
588	Forest Pansy redbud	1		G	G	6	Y	X	H	Recently planted. In proposed drive aisle.	Remove.
589	Forest Pansy redbud	1		G-F	G	3	Y	X	H	Recently planted. In proposed drive aisle.	Remove.
590	Forest Pansy redbud	1		G-F	G	2	Y	X	H	Recently planted. Root crown exposed above grade. In proposed drive aisle.	Remove.
591	Holly oak	19	X	G	G-F	20	M	X	H	Curb cracked to W and SE with root shape to SE. Appears pruned away from next tree. In proposed drive aisle.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
592	Forest Pansy redbud	1		G	G	4	Y	X	H	Newly planted tree. In proposed drive aisle.	Remove.
593	Water gum	6, 6, 6	X	G-F	G-F	8	M	X	H	Codominant trunks. Slightly sparse and chlorotic canopy. In proposed building.	Remove.
594	Water gum	5, 8	X	G-F	F		M	X	H	Chlorotic foliage. In proposed building.	Remove.
595	Holly oak	3		P	F	3	Y	X	H	Sparse canopy with stunted growth. In proposed drive aisle.	Remove.
596	Water gum	9		F	G	10	M	X	H	Sparse canopy. In proposed drive aisle.	Remove.
597	Water gum	6		G	G	8	Y	X	H	In proposed drive aisle.	Remove.
598	Holly oak	5.5		G-F	G	4	Y	X	H	Top has some dieback. 2' from proposed TCM.	Save (per team).
599	Coast redwood	20.5	X	F-P	G	12	M	X	L	Moderate recycled water damage. Landscape area to be expanded with TCM in existing parking.	Install temporary fencing, expand after demolition.
600	Coast redwood	19	X	F-P	G	10	M	X	L	Moderate recycled water damage. Landscape area to be expanded with TCM in existing parking.	Install temporary fencing, expand after demolition.
601	Coast redwood	21	X	F-P	G	12	M	X	L	Moderate recycled water damage. Landscape area to be expanded with TCM in existing parking.	
602	Coast redwood	17.5	X	F/F-P	G	12	M	X	L	Landscape area to be expanded with TCM in existing parking.	
603	Holly oak	6		G	G	6	Y	X	H	In proposed parking.	Remove.
604	Holly oak	6		G	G	6	Y	X	H	Within 1' of proposed parking.	Remove.
605	Ginkgo	5.5		G	G	8	Y	X	H	Female tree. In proposed parking.	Remove.
606	Eastern redbud	6		VP	F	5	M	X	H	Dying, cause unclear. In proposed parking.	Remove.
607	Water gum	9		F-P	G	7	M	X	H	Moderately sparse and stunted canopy especially at tips. In proposed parking.	Remove.
608	Water gum	4		P	G	5	Y	X	H	Very sparse and stunted canopy. In proposed parking.	Remove.
609	Water gum	10		F/F-P	G-F	10	M	X	H	Slightly sparse, stunted & chlorotic canopy. In proposed parking.	Remove.
610	Water gum	5		G-F	G	7	Y-M	X	H	Slightly different cultivar (wider leaves). In proposed parking.	Remove.
611	Water gum	5.5		G-F	G	7	Y-M	X	H	Slightly different cultivar (wider leaves). Slightly sparse at top. In proposed parking.	Remove.
612	Water gum	8.5		VP	P	8	M-OM	X	H	Almost dead. In proposed parking.	Remove.
613	Water gum	4		G-F	G	6	Y	X	H	Slightly droopy and stressed. In proposed parking.	Remove.
614	Water gum	2.5		F	G-F	4	Y	X	H	Relatively recently planted tree, still has stakes. Sparse canopy. In proposed parking.	Remove.
615	Water gum	5		G-F	G	7	Y-M	X	H	Slightly sparse canopy. 1' from proposed parking.	Remove.
616	Coast redwood	23	X	F-P	G	12	M	X	H	Moderate recycled water damage. In proposed TCM.	Remove.
617	Coast redwood	19.5	X	F-P	G	10	Y-M	X	H	Moderate recycled water damage. In proposed TCM.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
618	Coast redwood	24	X	F/F-P	G	12	M	X	H	Minor recycled water damage, much less than others. In proposed building.	Remove.
619	Coast redwood	14	X	F	G	8	Y-M	X	H	Crowded by larger trees. In proposed building.	Remove.
620	Coast redwood	27	X	F/F-P	G	15	M	X	H	Minor sidewalk lifting. Minor recycled water damage. In proposed building.	Remove.
621	Water gum	4.5		G	G	6	Y-M	X	H	In proposed building.	Remove.
622	Water gum	5		G	G	8	Y-M	X	H	In proposed building.	Remove.
623	Water gum	8		G	G	8	M	X	H	In proposed building.	Remove.
624	Water gum	5		G	G	6	Y-M	X	H	In proposed building.	Remove.
625	Water gum	6		G	G	7	Y-M	X	H	In proposed building.	Remove.
626	Water gum	3		G	G-F	6	Y	X	H	Canopy more squat than others. In proposed building.	Remove.
627	Water gum	5		G	G	8	Y-M	X	H	In proposed building.	Remove.
628	Crape myrtle (*Lagerstroemia* CV)	6		G-F	G	10	M	X	H	In proposed building.	Remove.
629	Coast redwood	26.5	X	P/P-VP	G	15	M-OM	X	H	Very sparse canopy, significant recycled water damage. In proposed building.	Remove.
630	Coast redwood	24	X	P/P-VP	G	15	M-OM	X	H	Significant recycled water damage. Large utility box 4' to NE. In proposed building.	Remove.
631	Coast redwood	24	X	P	G	15	M	X	H	Moderate-significant recycled water damage. In proposed TCM.	Remove.
632	Coast redwood	22.5	X	P	G	10	M	X	H	Moderate-significant recycled water damage. 2' from proposed drive aisle.	Remove.
633	Coast redwood	24.5	X	F-P	G	12	M	X	H	Moderate-significant recycled water damage. In proposed driveway.	Remove.
634	Coast redwood	28.5	X	F-P	G	15	M	X	H	Moderate-significant recycled water damage. In proposed driveway.	Remove.
635	Coast redwood	29.5	X	P	G	15	M	X	H	Moderate recycled water damage. In proposed concrete patio.	Remove.
636	Red oak	12	X	G	F	20SW	Y-M	X	H	Crowded by redwoods. In proposed driveway.	Remove.
637	Coast redwood	30.5	X	P	G	18	M	X	H	Significant recycled water damage. 11' from proposed building; 11' from proposed decomposed granite.	Install temporary fencing. Note: Declining tree, likely to continue decline after construction.
638	Coast redwood	22	X	P	G	15	M	X	H	Moderate-significant recycled water damage; some new growth. In proposed building.	Remove.
639	Coast redwood	24.5	X	P	G	15	M	X	H	Moderate-significant recycled water damage. Bird's nest in canopy. Within 1' of proposed building.	Remove.
640	Evergreen ash	33	X	G	F	25	M	X	H	Multiple codominant stems between 6'-8' above grade. Curb lifted 2" at 10' to NW with clear root under asphalt where asphalt has eroded away. Proposed walkways 20' & 16' to N & S; in proposed decomposed granite.	Install temporary fencing, arborist on site during berm & sidewalk grading. Leave large roots intact;

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
641	Evergreen ash	47.5	X	F-P	P	25	M-OM	X	H	9 codominant stems at 8'-10' above grade with additional heading cuts above. Lions' tailed vertical growth with dog-leg branches. Moderate-significant branch dieback both interior and at top. Sparse canopy. Massive root flare lifting up curb by 4" with damage extending 30' from trunk. Telephone concrete box at 2' to N lifted 4" above soil. Additional utility box 5' to S and 6' to SE. In proposed decomposed granite; proposed walkway 11' to N.	work decomposed granite around them.
642	Coast redwood	21	X	F-P	G	12	M	X	H	Moderate-significant recycled water damage. 15' from proposed building; 8' from proposed decomposed granite area.	Remove (per team).
643	Coast redwood	27	X	P/P-VP	G	15	M-OM	X	H	Significant recycled water damage. 2' from proposed walkway; 6' from proposed decomposed granite area; 16' from proposed building.	Remove.
644	Evergreen ash	23.5	X	F	F/F-P	20	M	X	H	Lower trunk leans to S, corrected at 4.5' above grade. Large trunk buttress visible above curb. Large scaffold removed to S. Slightly sparse canopy. 13' from proposed walkway, decomposed granite to be placed all around tree.	Install temporary fencing, arborist on site during berm & sidewalk grading. Leave large roots intact; work decomposed granite around them.
645	Coast redwood	23	X	P/P-VP	F	12	M-OM	X	H	Significant recycled water damage. 12' from proposed building.	Remove (per team).
646	Evergreen ash	27	X	F-P	F/F-P	15S-18W	M	X	H	Sparse upper canopy, lower canopy fuller due to sprouting. Large deadwood in canopy especially two 3"+ branches over street. Decomposed granite to be placed all around tree.	Install temporary fencing, arborist on site during berm & sidewalk grading. Leave large roots intact; work decomposed granite around them.
647	Evergreen ash	31	X	F	F	18S-W	M	X	H	Utility box 6' to E. 0.5" lift of curb. Trunk has phototropic lean to S with minor correction. Stunted growth of upper canopy with tip dieback, canopy replenished by sprouts at base. 17' from proposed retaining wall; decomposed granite to be placed all around tree.	
648	Coast redwood	26	X	VP	G	10	OM	X	H	Significant recycled water damage. 3' from proposed retaining wall.	Remove.
649	Coast redwood	19	X	VP	G	12	OM	X	H	Significant recycled water damage. 3' from proposed TCM; 1' from proposed retaining wall.	Remove.
650	Coast redwood	21.5	X	VP	G	12	OM	X	H	Significant recycled water damage. 6' from proposed retaining wall.	Remove.
651	Coast redwood	15.5	X	P	G	15	M	X	H	Moderate-significant recycled water damage. In proposed walkway.	Remove.
652	Coast redwood	17	X	F-P	G	10	M	X	H	Moderate-significant recycled water damage. 5' from proposed walkway.	Remove (per team).
653	Coast redwood	6		P	G	5	Y	X	M-H	Significant recycled water damage. 7' from proposed walkway; 3' from proposed decomposed granite area.	Remove (per team).
654	Evergreen ash	35	X	F	F	25	M	X	H	Moderate branch dieback, sparse canopy. 1" curb lift with visible root shaped lift in street. Proposed walkway 16' to N/NE; driveway to SW in similar location to existing; decomposed granite will be placed around tree.	Install temporary fencing, arborist on site during berm & sidewalk grading. Leave large roots intact; work decomposed granite around them.
655	Holly oak	6.5		F/F-P	G	8	Y-M	X	H	Sparse canopy. In proposed walkway.	Remove.
656	Holly oak	4		F-P	G	4	Y	X	H	Sparse and stunted canopy. In proposed walkway.	Remove.
657	Holly oak	7		F/F-P	G	6	Y	X	H	Sparse and stunted canopy. In proposed walkway.	Remove.
658	Holly oak	6.5		G-F	G	8	Y	X	H	Slightly sparse and stunted canopy. 2' from proposed walkway.	Remove.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
659	Coast redwood	16		P/P-VP	G	10	Y-M	X	H	Significant recycled water damage. In proposed drive aisle.	Remove.
660	Coast redwood	6		P/P-VP	G	5	Y	X	H	Significant recycled water damage. In proposed drive aisle.	Remove.
661	Holly oak	8		F/F-P	F	8	Y-M	X	H	Multiple stems at 8'; large branch tear out to S. Minor hardscape damage. Canopy slightly stunted and sparse. In proposed drive aisle.	Remove.
662	Holly oak	8.5		G	G-F	10	Y-M	X	H	In proposed drive aisle.	Remove.
663	Holly oak	10.5		G-F	F	12	M	X	H	Slightly stunted and sparse upper canopy. Significant lift of SE corner of planter. 2' from proposed drive aisle; 6' from proposed building.	Remove.
664	Deodar cedar (*Cedrus deodara*)	2.5		G	G	6	Y	X	H	2' from proposed drive aisle & TCM.	Remove.
665	Deodar cedar	1		F	G	6	Y	X	H	Chlorotic needles & sparse foliage. In proposed pipe.	Remove.
666	Deodar cedar	2.5		G	G	6	Y	X	H	In proposed walkway.	Remove.
667	Coast redwood	6.5		F/F-P	G	8	Y	X	H	Top half very sparse, likely due to recycled water effects. 2' from proposed storm pipe.	Relocate pipe to 8' from trunk, otherwise remove.
668	Coast redwood	9		F/F-P	G	8	Y	X	M	Top half very sparse, likely due to recycled water effects. Proposed DG sidewalk 8' radius around tree; proposed TCM 10' from trunk.	Install temporary fencing.
669	Peppermint eucalyptus (*Eucalyptus nicholii*)	41.5	X	P/P-VP	P	18	OM	X	H	Multiple codominant stems between 7'-12' above grade. Sparse canopy reduced in past. Tip dieback of several branches and all of canopy bronzed. Sidewalk around tree replaced, may because of decline, already cracked and lifted. In proposed building.	Remove.
670	Crape myrtle	5		G	G	4	M	X	H	In proposed building.	Remove.
671	Coast redwood	12.5	X	VP	G	8	OM	X	H	Significant recycled water damage. In proposed drive aisle.	Remove.
672	Mayten (*Maytenus boaria*)	7		F	F	6	M	X	H	1' from proposed parking, 3' from proposed building.	Remove.
673	Mayten	10		G	F	5	M	X	H	In proposed building.	Remove.
674	Crape myrtle	7.5		G-F	G-F	5	M	X	H	In proposed building.	Remove.
675	Peppermint eucalyptus	37	X	F/F-P	F	20	M	X	H	Sparse and chlorotic canopy. Codominant stems at 12' above grade. Significant lift of curb all around tree. In proposed drive aisle/parking.	Remove.
676	Coast redwood	18	X	VP	P	18	OM	X	H	Very sparse/stunted canopy. 11' from proposed sidewalk, landscape area to be enlarged around tree; tree is in poor shape and will continue to die.	Install temporary fencing. Note: tree is dying, will continue to decline.
677	Coast redwood	18	X	VP	P	10	OM	X	H	DBH estimated due to fence. Very sparse/stunted canopy. 5' from proposed sidewalk, landscape area to be enlarged around tree; tree is in poor shape and will continue to die.	
678	Coast redwood	22	X	VP	P	10	OM	X	H	DBH estimated due to fence. Very sparse/stunted canopy. 3' from proposed sidewalk, landscape area to be enlarged around tree,	
679	Ironbark eucalyptus	34	X	G	F-P	15	M	X	M	Off-site tree; DBH estimated, tag on fence. Has been reduced in past. Vertical codominant stems at 9' with additional vertical stems above. Minor asphalt lift. Landscape area will be expanded around this tree.	Install temporary fencing, expand after demolition. Demo contractor to be cautious due to existing hardscape damage by roots.

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
680	Ironbark eucalyptus	17	X	F	P	10	M	X	M	Off-site tree; DBH estimated, tag on fence. 1' behind curb. Tip dieback. 12' from proposed TCM area & drainage; landscape area to be expanded around tree.	Install temporary fencing, expand after demolition.
681	Ironbark eucalyptus	24	X	G-F	F	15E/S	M	X	M	Off-site tree; DBH estimated, tag on fence. 4' behind curb. 6' from proposed parking; landscape area to be expanded to E.	Remove (per team).
682	Ironbark eucalyptus	24	X	P/P-VP	P	8	OM	X	H	Off-site tree; DBH estimated, tag on fence. 1' behind curb; hardscape damage. Very sparse and stunted canopy with sprouts dying in upper canopy. Within 1' of proposed parking (root impact likely due to existing hardscape damage).	Remove.
683	Ironbark eucalyptus	30	X	G-F	F/F-P	18	M	X	H	Off-site tree; DBH estimated, tag on fence. 4' behind curb. Large epicormic sprouts at 7' (scaffold branch removal). 4' from proposed parking (same as existing).	Remove (per team).
684	Coast redwood	14.5	X	F-P	F	10	M-OM	X	M	Stunted & sparse canopy. Existing landscape area to be slightly updated, but similar to existing.	Install temporary fencing. Note: tree is in decline and will likely continue to decline.
685	Holly oak	13	X	G-F	F	18	M	X	L-M	Off-site tree; DBH estimated, tag on fence; 1' from fence. 5' from proposed parking (increased landscape space).	Install temporary fencing, expand after demolition.
686	Holly oak	16	X	F	G-F	18	M	X	L-M	Off-site tree; DBH estimated, tag on fence; 1' from fence. Sparse upper canopy. Large scaffold and secondaries removed for clearance. 6' from proposed parking (increased landscape space).	
687	Holly oak	11		G/G-F	G	10	Y-M	X	L-M	Off-site tree; DBH estimated; 18" from fence. Ivy climbing trunk. Slightly stunted growth. 6' from proposed parking (increased landscape space).	
688	Evergreen ash	16	X	F	F	18	M	X	H	Off-site tree; DBH estimated, tag on fence; 6' from fence. Codominant stems at 18' above grade. Sparse canopy with minor asymmetry to E over parking. 2' from proposed parking; landscape area to be expanded to SE.	Remove.
689	Peppermint eucalyptus	31	X	F-P	F-P	20	M-OM	X	H	Lifting up asphalt. Chlorotic foliage with top dieback. Codominant stems at 6', splits again at 9'. In proposed building.	Remove.
690	Deodar cedar	2.5		G	G	6	Y	X	H	In proposed building.	Remove.
691	Deodar cedar	2.5		G	G	6	Y	X	H	In proposed building.	Remove.
692	Coast redwood	22.5	X	F/F-P	G	15	M	X	H	Minor-moderate recycled water damage. Large trunk buttress. In proposed building.	Remove.
693	Holly oak	18	X	F/F-P	F	18	M	X	M	Off-site tree; DBH estimated, tag on fence; 1' from fence. W half of tree declining from top, very sparse and stunted. 14' from proposed TCM area; landscape area to be expanded around tree.	Remove (per team).
694	Holly oak	8		F	F	12	Y	X	M	Off-site tree; DBH estimated, tag on fence; 2' from fence. Slightly sparse & stunted canopy. 12' from proposed TCM area; landscape area to be expanded around tree.	Remove (per team).
695	Evergreen ash	30	X	F/F-P	F	20	M	X	M	Sparse canopy especially at top (growth stunted). Lifting parking 15' to S and signficant 3" curb and street lift to NE. Proposed driveway in similar footprint to existing; landscape area to be expanded around tree with bio-retention/drain at 23' to S.	Remove (per team).

#	Species	DBH	Ord	Health	Structure	Dripline	Age	DE	CI	Comments	Recommendations
696	Coast live oak	9.5		F/F-P	F	10	Y-M	X	H	Significant sycamore borer frass & damage on N/E sides of trunk. Sparse canopy with stunted growth. In proposed building.	Remove.
697	Coast live oak	12	X	G-F	G	10	Y-M	X	H	Unknown bleeding from trunk (sour smell). Newest growth is slightly chlorotic. Canker with bleeding on S side of tree, major canker on E side about half of circumference and 1' tall. 4' from proposed TCM.	Provide 6' clearance on one side and 10' on other 3 sides to save; otherwise tree has to be removed.
698	Coast live oak	15	X	G	G	15	Y-M	X	H	Multiple vertical stems at 12' above grade. Within 1' of proposed building.	Remove.
699	Peppermint eucalyptus	39.5	X	P	F	20	M-OM	X	H	Fairly sparse canopy with branch dieback & larger stubs over street. Large vertical shoots in center of canopy. Large secondary scaffold at 6' above grade. Path of walkway replaced at 8' to SE. 4' from proposed sidewalk; 5' from proposed TCM (in current sidewalk), 2' from proposed pipe.	Provide as much clearance as possible; tree still likely to decline and need to be removed. Note: declining tree, likely to continue decline after construction.
700	Japanese maple (*Acer palmatum*)	11		G-F	G	15	M	X	H	Diameter measured at 6" due to multiple stems above. Leaves slightly burnt. Within 1' of proposed building.	Remove.
701	Japanese maple	12	X	F/F-P	F	20N-15EW	M	X	H	Diameter measured at 6" due to multiple stems above. Tag # written in sharpie; may wear off. Burnt foliage where full sun. Several large dead branches. In proposed walkway, 5' from proposed building.	Remove.
702	Coast live oak	13.5	X	G	G	15	Y-M	X	H	Tag # written in sharpie; may wear off. Minor lift of walkway. In proposed walkway, 3' from proposed building.	Remove.