ARBORIST REPORT AND TREE INVENTORY SUMMARY

6416 Hazel Avenue Assessor's Parcel # 223-0012-053, 060,061 Orangevale, County of Sacramento, California

Prepared for:

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A. Tree Inventory Summary (sorted by tree number)

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QUALIFICATION STATEMENT

Acorn Arboricultural Services, Inc.is a fully insured, Roseville, California-based, professional arboricultural services company which was founded in 2010 following a parent corporation restructuring. The principals are Delinda and Jay Bate. Wayne McKee is an ISA Certified Arborist and is Tree Risk Assessment Qualified. He graduated from Humboldt State University with a B.S. in Forestry. Wayne has more than 38 years' experience in the horticulture, forestry, and arboricultural fields. He has a background working as a consulting arborist compiling tree value assessments, tree inventories, and tree risk assessments, as well as acting as a project arborist on many commercial and residential development projects.

<u>INTRODUCTION</u>

Acorn Arboricultural Services, Inc. is pleased to present this Arborist Report and Tree Inventory Summary for the trees located within and/or overhanging the property at 6416 Hazel Avenue Project Site, located in Orangevale, in the County of Sacramento, California. This Arborist Report and Tree Inventory Summary documents tree data obtained by Wayne McKee, ISA Certified Arborist WE-0959A, at the time of field reconnaissance and inventory efforts on January 17, 2022.

SCOPE OF INVENTORY EFFORT

The County of Sacramento Tree Preservation Ordinance (Sacramento County Code Title 19. Chapter 19.12) regulates both the removal of protected trees and the encroachment of construction activities within their driplines. The Ordinance defines a "tree" as "any living native oak tree having at least one trunk of six inches or more in diameter measured four and one-half feet above the ground, or a multi-trunked native oak tree having an aggregate diameter of ten inches or more, measured four and one-half feet above the ground." In addition, all native oak and specified non-oak native trees which measure four inches in diameter and larger (or 10-inch aggregate diameter for multi-trunk native oak and Northern California Black Walnut trees). Although not required for inclusion in the report all trees 4inch diameter are included so they can be mapped for the Tree Location Exhibit. These separate requirements are not based solely on the Sacramento County Tree Preservation Ordinance. Tree inventories and arborist reports submitted to the Sacramento County Office of Planning and Environmental Review (OPER) are used, among other things, to evaluate project impacts and create appropriate mitigation pursuant to the Sacramento County General Plan policies and CEQA. To that end, OPER developed a separate set of criteria to be utilized when preparing tree inventories and arborist reports for a proposed development site.

This Arborist Report and Tree Inventory Summary presents information concerning the species, size, and current condition of the trees within or overhanging the proposed project area, along with pre-development recommendations on a tree-by-tree basis which logically follow the characteristics noted within the trees at the time of field inventory efforts. Information concerning the nature and extent of root system and canopy impacts which will be sustained by the trees from proposed development activities, along with specific tree-by-tree mitigation recommendations for the trees which will sustain encroachment into their protected root zones can be provided in a Supplemental Arborist Report and Construction Impact Assessment once development plans have been refined and finalized for the proposed project area.

METHODOLOGY

During field reconnaissance and inventory efforts Wayne Mckee of Acorn Arboricultural Services conducted a visual review from ground level of the trees within and/or overhanging the proposed project area as depicted on the Tentative Parcel Map. The trees 4-inch DBH were identified in the field by affixing to the tree's trunk, or fence for some offsite trees, a round numbering tag with blue flagging for visibility. The tree numbers utilized in this report and accompanying Tree Inventory Summary correspond to the tree tag which is affixed to the tree in the field, and those tree numbers or grouping of numbers have been rough plotted on the Tentative Parcel Map provided. The precise vertical and horizontal location of the trees should be surveyed in the field by a licensed land surveyor and data for the trees (i.e., tree number, diameter, and dripline) may be properly depicted the development plans and Tree Location Exhibit as requested by OPER.

At the time of field identification and inventory efforts specific data was gathered for each tagged tree including the tree's species, DBH, and dripline radius (DLR). In addition, for the trees which met the criteria of the OPER Requirements and/or County of Sacramento Tree Preservation Ordinance an assessment was made of the tree's root crown/collar, trunk, limbs. and foliage. Utilizing this data, the trees' overall structural condition and vigor were assessed ranging from poor to good based upon the observed characteristics noted within the tree and the Arborist's best professional judgment. Ratings are subjective and are dependent upon both the structure and vigor of the tree. The vigor rating considers factors such as the size. color and density of the foliage; the amount of deadwood within the canopy; bud viability; evidence of wound closure; and the presence or evidence of stress, disease, nutrient deficiency and insect infestation. The structural rating reflects the root crown/collar, trunk and branch configurations; canopy balance; the presence of included bark, weak crotches and other structural defects and decay and the potential for structural failure. The numerical ratings are 0) dead, 1) severe decline, 2) declining, 3) fair, 4) good and 5) excellent. Protected county trees are highlighted in green. Finally, notable characteristics were documented and recommendations on a tree-by-tree basis were made which logically followed the observed characteristics noted within the trees at the time of the field inventory effort.

SUMMARY OF INVENTORY EFFORT

Field reconnaissance and inventory efforts found 119 trees 4-inch DBH and larger within or overhanging the proposed project area. Composition of the 119 inventoried trees includes the following species and accompanying aggregate diameter inches:

SPECIES DIVERSIFIC	CATION		
Black Walnut	=	4 tree	(42 aggregate diameter inches)
Blue Oak	=	2 trees	(22 aggregate diameter inches)
Interior Live Oak	=	21 trees	(252 aggregate diameter inches)
Valley Oak	=	37 trees	(376 aggregate diameter inches)
Blue Gum	=	10 trees	(221 aggregate diameter inches)

TOTAL	=	119trees	(1616 aggregate diameter inches)
Tangerine	=	1 tree	(7 diameter inches)
Grapefruit	=	1 tree	(7 diameter inches)
Silver Maple	=	1 tree	(28 diameter inches)
Southern Magnolia	=	1 tree	(22 diameter inches)
Fremont Cottonwood	=	1 tree	(10 diameter inches)
Persimmon	=	1 tree	(20 aggregate diameter inches)
Silk Tree	=	1 tree	(20 aggregate diameter inches)
Chinese Pistache	=	1 tree	(24 aggregate diameter inches)
English Walnut		1 tree	(22 aggregate diameter inches)
Mulberry	=	2 trees	(17 aggregate diameter inches)
Incense cedar	===	2 trees	(51 aggregate diameter inches)
Olive	=	4 trees	(114 aggregate diameter inches)
Pecan	=	4 trees	(39 aggregate diameter inches)
Plum	=	7 trees	(94 aggregate diameter inches)
Privet	=	8 trees	(112 aggregate diameter inches)
Almond	_	9 trees	(111 aggregate diameter inches)

Recommended Removals

At this time, 5 trees have been recommended for removal from the proposed project area due to the nature and extent of defects, compromised health, and/or structural instability noted at the time of field inventory efforts. If these trees were retained within the proposed project area, it is our opinion that it may be hazardous depending upon their proximity to planned development activities. For reference, the trees which have been recommended for removal due to the severity of noted defects, compromised health, and/or structural instability are highlighted in yellow within the accompanying inventory summaries and are briefly summarized as follows:

TREE	SPECIES STEMS DB		MULTI-	TOTAL	DLR	CONDITIONAL ASSESSMENT			
#		DBH (inches)	(feet)	STRUCTURE	VIGOR				
5	Silver Maple	Acer saccharinum		28	16	Poor	Fair		
16	Plum	Prunus spp.		9	8	Poor	Poor		
102	Plum	Prunus spp.	7,8,9	24	20	Poor	Poor to fair		
111	Fig	Ficus carica	3,3,4	10	10	Poor	Poor		
119	Plum	Prunus		10	15	Poor	Poor to fair		

It should also be noted that some of the trees within the proposed project area are trees which may be undesirable on residential lots, or are trees which will require periodic/seasonal monitoring to assess the trees' ongoing structural integrity. At this early stage of the project Acorn Arboricultural Services, Inc. has not recommended the removal of these trees since development plans, including proposed home site and building footprint, have not yet been finalized and the precise location of these trees in proximity to planned improvement activities is not known. At this time it is recommended that these trees be monitored and thoroughly inspected by a qualified ISA Certified Arborist on at least an annual basis to keep abreast of the trees' changing condition(s) and to assess the trees' ongoing structural integrity and potential for hazard in a developed environment.

CONSTRUCTION IMPACT ASSESSMENT

This Arborist Report and Tree Inventory Summary is intended to provide to Larry Fritz, the County of Sacramento, and other members of the development team a detailed *predevelopment review* of the species, size, and current structure and vigor of the trees within 50 feet of the proposed construction. It is not an exhaustive review of the impacts which will be sustained from project implementation. At this early stage of the project specific root system and canopy impacts on a tree-by-tree basis cannot be definitively assessed until the site development, grading, and other improvement plans have been refined and finalized and data from the accompanying inventory summary (i.e., tree numbers and dripline radius) is properly depicted on the plans.

Since trees are living organisms whose condition may change at any time a complete assessment of construction impacts and specific recommendations to help mitigate for the adverse impacts which may be sustained by the trees from contemplated construction activities cannot be made until the development plans have been refined and finalized. Once final plans have been developed for the site a qualified ISA Certified Arborist with special expertise and demonstrated experience with construction projects in and among native and non-native trees should review those plans and provide a more detailed assessment of impacts, including identification of trees which may require removal to facilitate home construction and other contemplated site development activities. This review will be particularly important if structures and/or residential activities will fall within or near the fall zone of a tree which has been noted as exhibiting structural defects, questionable long-term longevity and/or a conditional rating which is less than "fair", and for trees which measure 16 inches and greater in diameter which will be retained within close proximity to development as trees of this size may pose a more significant hazard if a sudden limb shed and/or catastrophic failure should occur. In addition, the review should include an assessment of root system and canopy impacts which will be sustained by the trees which will be retained within the proposed development area, along with specific recommendations on a tree-by-tree basis to help reduce adverse impacts of construction on the retained trees. In the meantime, this report provides some pre-development recommendations which logically follow the observed characteristics noted in the trees at the time of the field inventory efforts.

as well as General Protection Measures which should be utilized as a guideline for the protection of trees which may be retained within the development area. These recommendations will require modification and/or augmentation as development plans are refined and finalized.

GENERAL COMMENTS AND ARBORISTS' DISCLAIMER

The County of Sacramento regulates both the removal of "protected trees" and the encroachment of construction activities within their driplines. Therefore, a tree permit and/or additional development authorization should be obtained from the County of Sacramento prior to the removal of any trees within the proposed project area. All terms and conditions of the tree permit and/or other Conditions of Approval are the sole and exclusive responsibility of the project applicant. It should be noted that prior to final inspection written verification from an ISA Certified Arborist may be required certifying the approved removal activities and/or implementation of other Conditions of Approval outlined for the retained trees on the site. Acorn Arboricultural Services, Inc. will not provide written Certification of Compliance unless we have been provided with a copy of the approved site development plans, applicable permits and/or Conditions of Approval, and are on site to monitor and observe regulated activities during the course of construction. Therefore, it will be necessary for the project applicant to notify Acorn Arboricultural Services, Inc. well in advance (at least 72 hours prior notice) of any regulated activities which are scheduled to occur on site so that those activities can be properly monitored and documented for compliance certification.

Please bear in mind that implementation of the recommendations provided within this report will help to reduce adverse impacts of construction on the retained trees; however, implementation of any recommendations should not be viewed as a guarantee or warranty against the trees' ultimate demise and/or failure in the future. Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of the trees and attempt to reduce the risk of living near trees. Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. There are some inherent risks with trees that cannot be predicted with any degree of certainty, even by a skilled and experienced arborist. Entities who choose to construct homes on wooded property are accepting a certain level of risk from unpredictable tree related hazards such as toppling in storms, limbs falling and fires that may damage property at some time in the future. Since trees are living organisms their structure and vigor constantly change over time, and they are not immune to changes in site conditions or seasonal variations in the weather. Further, conditions are often hidden within the tree and/or below ground. Arborists and other tree care professionals cannot guarantee that a tree will be healthy and/or safe under all circumstances or for a specific period of time. Likewise remedial treatments cannot be guaranteed. Trees can be managed but they cannot be controlled. To develop land and live near trees is to accept some degree of risk and the only way to eliminate all risk associated with trees would be to eliminate all of the trees. An entity who develops land and builds a home with a tree in the vicinity should be aware of and

inform their future residents of this Arborists' Disclaimer, and be further advised that the developer and the future residents assume the risk that a tree could at any time suffer a branch and/or limb failure, blow over in a storm and/or fail for no apparent reason which may cause bodily injury or property damage. Acorn Arboricultural Services, Inc. cannot predict acts of nature including, without limitation, storms of sufficient strength which can even take down a tree with a structurally sound and vigorous appearance.

Finally, the trees preserved within and/or overhanging the proposed project area will experience a physical environment different from the pre-development environment. As a result, tree health and structural stability should be regularly monitored. Occasional pruning, fertilization, mulch, pest management, replanting and/or irrigation may be required. In addition, provisions for monitoring both tree health and structural stability following construction must be made a priority. As trees age, the likelihood of failure of branches or entire trees increases. Therefore, the future management plan must include an annual inspection by a qualified ISA Certified Arborist to keep abreast of the trees' changing condition(s) and to assess the trees' ongoing structural integrity and potential for hazard in a developed environment.

Thank you for allowing Acorn Arboricultural Services, Inc. to assist you with this review. Please feel free to give me a call if you have any questions or require additional information and/or clarification.

Sincerely,

Wayne Mckee

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ISA Certified Arborist WE 0959A, 1992

ISA Tree Risk Assessment Qualified, 2017

B S Forestry, Humboldt State University

ASSUMPTIONS AND LIMITING CONDITIONS

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- 2. It is assumed that any property is not in violation of any applicable codes, ordinances, statutes, or other governmental regulations.
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- 11. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the plants or property in question may not arise in the future.
- 12. This report is based on the observations and opinions of Edwin E. Stirtz, and does not provide guarantees regarding the future performance, health, vigor, structural stability or safety of the plants described herein. Neither this author nor Acorn Arboricultural Services, Inc. has assumed any responsibility for liability associated with the trees on or adjacent to this project site, their future demise and/or any damage which may result therefrom.
- 13. The information contained within this report is true to the best of the author's knowledge and experience as of the date it was prepared; however, certain conditions may exist which only a comprehensive, scientific, investigation might reveal which should be performed by other consulting professionals.
- 14. The legal description, dimensions, and areas herein are assumed to be correct. No responsibility is assumed for matters that are legal in nature.
- 15. Any changes to an established tree's environment can cause its decline, death and/or structural failure.

DEFINITIONS

Tree Number: Corresponds to aluminum tag attached to the tree.

Species Identification: Scientific and common species name.

Diameter (DBH): This is the trunk diameter measured at breast height (industry

standard 4.5 feet above ground level).

Dripline radius (DLR): A radius equal to the horizontal distance from the trunk of the tree

to the end of the farthest most branch tip prior to any cutting.

Root Protection Zone: A circle equal to the largest radius of a protected tree's dripline.

Root Crown: Assessment of the root crown/collar area located at the base of the

trunk of the tree at soil level.

Trunk: Assessment of the tree's main trunk from ground level generally

to the point of the primary crotch structure.

Limbs: Assessment of both smaller and larger branching, generally from

primary crotch structure to branch tips.

Foliage: Tree's leaves.

Overall Condition: Describes overall condition of the tree in terms of structure and

vigor.

Recommendation: Pre-development recommendations based upon observed

characteristics noted at the time of the field inventory effort.

Obscured: Occasionally some portion of the tree may be obscured from

visual inspection due to the presence of dense vegetation which, during the course of inspection for the arborist report, prevented a complete evaluation of the tree. In these cases, if the tree is to be retained on site the vegetation should be removed to allow for a complete assessment of the tree prior to making final decisions

regarding the suitability for retention.

TREE CONDITION RATING CRITERIA

RATING TERM	ROOT CROWN	TRUNK	LIMBS	FOLIAGE	STRUCTURE	VIGOR
Good	No apparent injuries, decay, cavities or evidence of hollowing; no anchoring roots exposed; no indications of infestation or disease	No apparent injuries, decay, cavities or evidence of hollowing; no codominant attachments or multiple trunk attachments are observed; no indications of infestation or disease	No apparent injuries, decay, cavities or evidence of hollowing; below average amount of dead limbs or twigs; no major limb failures or included bark; callus growth is vigorous	Leaf size, color and density are typical for the species; buds are normal in size, viable, abundant and uniform throughout the canopy; annual seasonal growth increments are average or above average; no insect or disease infestations/infections evident	No apparent structural defects; no weak crotches; no excessively weighted branches and no significant cavities or decay	Tree appears healthy and has little or no significant deadwood; foliage is normal and healthy
Fair	Small to moderate injuries, decay, cavities or hollowing may be evident but are not currently affecting the overall structure; some evidence of infestation or disease may be present but is not currently affecting the tree's structure	Small to moderate injuries, decay, cavities or hollowing may be evident; codominant branching or multiple trunk attachments or minor bark inclusion may be observed; some infestation or disease may be present but not currently affecting the tree's structure	Small to moderate injuries, decay or cavities may be present; average or above average dead limbs or twigs may be present; some limb failures or bark inclusion observed; callus growth is average	Leaf size, color and density are typical or slightly below typical for the species; buds are normal or slightly sparse with potentially varied viability, abundance and distribution throughout the canopy; annual seasonal growth increments are average or slightly below average; minor insect or disease infestation/infection may be present	Minor structural problems such as weak crotches, minor wounds and/or cavities or moderate amount of excessive weight; non-critical structural defects which can be mitigated through pruning, cabling or bracing	Tree appears stressed or partially damaged; minimal vegetative growth since previous season; moderate amount of deadwood, abnormal foliage and minor lesions or cambium dieback
Poor	Moderate to severe injuries, decay, cavities or hollowing may be evident and are affecting the overall structure; presence of infestation or disease may be significant and affecting the tree's structure	Moderate to severe injuries, decay, cavities or hollowing may be evident and are affecting the tree's structure; presence of infestation or disease may be significant and affecting the tree's structure	Severe injuries, decay or cavities may be present; major deadwood, twig dieback, limb failures or bark inclusion observed; callus growth is below average	Leaf size, color and density are obviously abnormal; buds are obviously abnormal or absent; annual seasonal growth is well below average for the species; insect or disease problems may be severe	Obvious major structural problems which cannot be corrected with mitigation; potential for major limb, trunk or root system failure is high; significant decay or dieback may be present	Tree health is declining; no new vegetative growth; large amounts of deadwood; foliage is severely abnormal

The ratings "Poor to fair" and "fair to good" are used to describe trees that fall between the described major categories and have elements of both

GENERAL PROTECTION GUIDELINES FOR TREES PLANNED FOR PRESERVATION

Great care must be exercised when work is conducted upon or around protected trees. The purpose of these General Protection Measures is to provide guidelines to protect the health of the affected protected trees. These guidelines apply to all encroachments into the protected zone of a protected tree, and may be incorporated into tree permits and/or other Conditions of Approval as deemed appropriate by the applicable governing body.

A circle with a radius measurement from the trunk of the tree to the tip of its longest limb, shall constitute the root protection zone area of each protected tree. Limbs must not be cut back in order to change the dripline. The area beneath the dripline is a critical portion of the root zone and defines the minimum protected area of each protected tree. Removing limbs that make up the dripline does not change the protected area.

Any protected trees on site which require pruning shall be pruned by an ISA Certified Arborist prior to the start of construction work. All pruning shall be in accordance with the American National Standards Institute (ANSI) A300 pruning standards, ANSI Standard 2133.1-2000 regarding safety practices, and the International Society of Arboriculture (ISA) "Tree Pruning Guidelines" and Best Management Practices.

Prior to initiating construction, temporary protective fencing shall be installed at least one foot outside the root protection zone of the protected trees in order to avoid damage to the tree canopies and root systems. Fencing shall be installed in accordance with the approved fencing plan prior to the commencement of any grading operations or such other time as determined by the review body. The developer shall contact the Project Arborist and the OPER for an inspection of the fencing prior to commencing construction activities on site.

Signs shall be installed on the protective fence in four (4) equidistant locations around each individual protected tree. The size of each sign must be a minimum of two (2) feet by two (2) feet and must contain the following language:

WARNING: THIS FENCE SHALL NOT BE REMOVED OR RELOCATED WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY OF SACRAMENTO

Once approval has been obtained by the County of Sacramento Municipal Services Agency protective fencing shall remain in place throughout the entire construction period and shall not be removed, relocated, taken down or otherwise modified in whole or in part without prior written authorization from the Agency, or as deemed necessary by the Project Arborist to facilitate approved activities within the root protection zone.

Any removal of paving or structures (i.e. demolition) that occurs within the dripline of a protected tree shall be done under the direct supervision of the Project Arborist. To the maximum extent feasible, demolition work within the dripline protection area of the protected tree shall be performed by hand. If the Project Arborist determines that it is not feasible to perform some portion(s) of this work by hand, then the smallest/lightest weight equipment that will adequately perform the demolition work shall be used.

No signs, ropes, cables (except those which may be installed by an ISA Certified Arborist to provide limb support) or any other items shall be attached to the protected trees. Small metallic numbering tags for the purpose of identification in preparing tree reports and inventories shall be allowed.

No vehicles, construction equipment, mobile homes/office, supplies, materials or facilities shall be driven, parked, stockpiled or located within the driplines of protected trees.

Drainage patterns on the site shall not be modified so that water collects, stands or is diverted across the dripline of any protected tree.

No trenching shall be allowed within the driplines of protected trees, except as specifically approved by the OPER as set forth in the project's Conditions of Approval and/or approved tree permit. If it is absolutely necessary to install underground utilities within the dripline of a protected tree the utility line within the protected zone shall be "bored and jacked" or performed utilizing hand tools to avoid root injury under the direct supervision of the Project Arborist.

Grading within the protected zone of a protected tree shall be minimized. Cuts within the protected zone shall be maintained at less than 20% of the root protection zone area. Grade cuts shall be monitored by the Project Arborist. Any damaged roots encountered shall be root pruned and properly treated as deemed necessary by the Project Arborist.

Minor roots less than one (1) inch in diameter encountered during approved excavation and/or grading activities may be cut, but damaged roots shall be traced back and cleanly cut behind any split, cracked or damaged area as deemed necessary by the Project Arborist.

Major roots greater than one (1) inch in diameter encountered during approved excavation and/or grading activities may not be cut without approval of the Project Arborist. Depending upon the type of improvement being proposed, bridging techniques or a new site design may need to be employed to protect the roots and the tree.

Cut faces, which will be exposed for more than 2-3 days, shall be covered with dense burlap fabric and watered to maintain soil moisture at least on a daily basis (or possibly more frequently during summer months). If any native ground surface fabric within the protected zone must be removed for any reason, it shall be replaced within forty-eight (48) hours.

If fills exceed 1 foot in depth up to 20% of the critical root zone area, aeration systems may serve to mitigate the presence of the fill materials as determined by the Project Arborist.

When fill materials are deemed necessary on two or three sides of a tree it is critical to provide for drainage away from the critical root zone area of the tree (particularly when considering heavy winter rainfalls). Overland releases and subterranean drains dug outside the root protection zone area and tied directly to the main storm drain system are two options.

In cases where a permit has been approved for construction of a retaining wall(s) within the protected zone of a protected tree the applicant will be required to provide for immediate protection of exposed roots from moisture loss during the time prior to completion of the wall. The retaining wall within the root protected zone of the protected tree shall be constructed within seventy-two (72) hours after completion of grading within the root protection zone.

The construction of impervious surfaces within the root protection zone of a protected tree shall be minimized. When necessary, a piped aeration system shall be installed under the direct supervision of the Project Arborist.

Preservation devices such as aeration systems, tree wells, drains, special paving and cabling systems must be installed in conformance with approved plans and certified by the Project Arborist.

No sprinkler or irrigation system shall be installed in such a manner that sprays water or requires trenching within the root protection zone of a protected tree. An above ground drip irrigation system is recommended. An independent low-flow drip irrigation system may be used for establishing drought-tolerant plants within the root protection zone of a protected tree. Irrigation shall be gradually reduced and discontinued after a two (2) year period.

All portions of permanent fencing that will encroach into the root protection zone of a protected tree shall be constructed using posts set no closer than ten (10) feet on center. Posts shall be spaced in such a manner as to maximize the separation between the tree trunks and the posts in order to reduce impacts to the tree(s).

6416 Hazel Avenue Project Site

Orangevale, County of Sacramento, California

TREE			MULTI-	TOTAL	DLR	CONDI		Rating	Protected	Dripline	NOTABLE CHARACTERISTICS - MAINTENANCE
#	COMMON NAME	SPECIES	STEMS (inches)	DBH (inches)	(feet)	STRUCTURE	VIGOR	(0-5)	County	Enviro.	RECOMMENDATIONS
1	Interior live oak	Quercus wislizenii		11	19	Fair	Fair	3	yes	grasses	Trunk leans east, callusing trunk wound south side 1 ' above grade None at this time
2	Plum	Prunus spp.	2,3,4	9	5	Poor to fair	Fair	3	no	grasses	Weak attachments, above average amount of deadwood None at this time.
3	Silk tree	Albizia julibrissin	9,11	20	23	Poor to fair	Fair	3	no	grasses / roadway	Callusing trunk wounds west side None at this time.
4	Persimmon	Diospyros spp.	9,11	20	8	Poor to fair	Fair	3	no	grasses	Old heading cuts and resulting sprout growth None at this time
5	Silver maple	Acer saccharinum		28	16	Poor	Fair	I	no	grasses	Old heading cuts and resulting sprout growth at 15' above grade, fungal fruiting bodies from grade to 15' with suspected significan interior decay Remove
6	Southern magnolia	Magnolia grandifloria		22	17	Fair	Fair	3	no	grasses	None at this time.
7	Blue oak	Quercus douglasii		17	16	Poor to fair	Fair	3	yes	gravel driveway	Pruned for utility line clearance, old heading cuts and resulting sprout growth None at this time. Offsite 2 feet north of property fence alignment.
8	Fremont cottonwood	Populus fremontii		10	12	Fair	Fair	3	no	grasses	None at this time. Offsite 2 feet north of property fence.
9	California black walnut	Juglans hindsii	9,10	19	14	Fair	Fair	3	yes	grasses	None at this time. Offsite 3 feet north of property fence, tag on fence.
10	Almond	Prunus dulcis		10	15	Poor to fair	Poor to fair	3	no	grasses	Crown 1-sided east suppressed, above average amount of deadwood None at this time. Offsite 1 foot north of property fence.
11	English walnut	Juglans regia	4,5,6,7	22	19	Poor to fair	Fair	3	no	grasses	Stems are stump sprouts None at this time.
12	Valley oak	Quercus lobata		10	16	Fair	Fair	3	yes	grasses /shed	None at this time. Offsite just north of the property fence.
13	Valley oak	Quercus lobata		9	19	Poor to fair	Fair	3	yes	grasses / shed	Embedded wire lower trunk, crown 1-sided south None at this time
14	Interior live oak	Quercus wislizenii	9,10	19	22	Fair	Fair	3	yes	grasses / shed	None at this time. Offsite 3 feet north of property fence, tag on fence.
15	Interior live oak	Quercus wislizenii		14	23	Poor to fair	Fair	3	yes	grasses	Trunk leans south then bends upright None at this time.
16	Plum	Prunus spp.		9	8	Poor	Poor	1	no	dirt	Callusing trunk wounds various locations with fungal fruiting bodies. Remove
17	Privet	Ligustrum lucidum		8	10	Poor to fair	Fair	3	no	dirt	Callusing trunk wounds south side None at this time

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Orangevale, County of Sacramento, California

TREE INVENTORY SUMMARY

TREE			MULTI-	TOTAL	DLR	CONDI		Rating	Protected	Dripline	NOTABLE CHARACTERISTICS - MAINTENANCE
#	COMMON NAME	SPECIES	STEMS (inches)	DBH (inches)	(feet)	STRUCTURE	VIGOR	(0-5)	County	Enviro.	RECOMMENDATIONS
18	Privet	Ligustrum lucidum	6,7	13	14	Poor to fair	Fair	3	no	dirt	Callusing trunk wounds south side with minor decay None at this time
19	Tangerine	Citrus reticulata		7	16	Fair	Fair	3	no	dirt	Crown 1-sided north None at this time.
20	Grapefruit	Citrus x paradisi		7	13	Fair	Fair	3	no	dirt / shed	None at this time.
21	Incense cedar	Calocedrus decurrens		31	14	Fair	Fair	3	no	dirt	None at this time
22	Incense cedar	Calocedrus decurrens		20	18	Poor to fair	Fair	3	no	dirt	Trunk leans south None at this time.
23	Pecan	Carya illinoinensis		10	15	Fair	Fair	3	no	grasses / shed	None at this time.
24	Almond	Prunis dulcis	6,7	13	12	Poor to fair	Fair	3	no	grasses	Callusing trunk wounds east side 2 to 4' above grade None at this time.
25	Valley oak	Quercus lobata		10	16	Fair	Fair	3	yes	grasses	None at this time.
26	Valley oak	Quercus lobata	4,5	9	8	Fair	Fair	3	no	grasses	None at this time.
27	Valley oak	Quercus lobata		4	4	Fair	Fair	3	no	grasses	None at this time.
28	Valley oak	Quercus lobata		7	11	Fair	Fair	3	yes	grasses	None at this time.
29	Valley oak	Quercus lobata		13	15	Fair	Fair	3	yes	grasses	Callusing basal wound west side None at this time.
30	Valley oak	Quercus lobata		14	17	Fair	Fair	3	yes	grasses	None at this time.
31	Privet	Ligustrum lucidum	7,8	15	13	Poor to fair	Fair	3	no	grasses	Weak attachments None at this time.
32	Privet	Ligustrum lucidum	6,7,7	20	14	Poor to fair	Fair	3	no	grasses	Weak attachments None at this time.
33	Privet	Ligustrum lucidum		7	10	Poor to fair	Fair	3	no	grasses	Callusing trunk wounds various locations, branch failures. None at this time.
34	Privet	Ligustrum lucidum	7,9	16	13	Poor to fair	Fair	3	no	grasses	Callusing trunk wounds various locations, branch failures. None at this time.
35	Privet	Ligustrum lucidum	5,6,6	17	15	Poor to Fair	Fair	3	no	grasses	Weak attachments. None at this time.
36	Privet	Ligustrum lucidum	3,4,7	14	12	Poor to fair	Fair	3	no	grasses	Callusing trunks wounds various locations None at this time

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Orangevale, County of Sacramento, California

TREE		MULTI- TOTAL DLR CONDITION Rating Protected D			DLR	CONDI	TION	Rating		Dripline	NOTABLE CHARACTERISTICS - MAINTENANCE
#	COMMON NAME	SPECIES	STEMS (inches)	DBH (inches)	(feet)	STRUCTURE	VIGOR	(0-5)	County	Enviro.	RECOMMENDATIONS
55	Blue gum	Eucalyptus globulus		22	20	Poor to fair	Fair	3	no	grasses	Past large limb failures None at this time. Offsite 4 north of property fence, tag on fence.
56	Blue gum	Eucalyptus globulus		18	22	Fair	Fair	3	no	grasses	None at this time. Offsite 5 feet north of property fence, tag on fence.
57	Blue gum	Eucalyptus globulus		7	20	Poor to fair	Fair	3	no	grasses	Trunk leans significantly to the south None at this time. Offiste 4 feet north of property fence.
58	Blue gum	Eucalyptus globulus	6,7,8,8, 10	39	18	Poor to fair	Fair	3	no	grasses	Trunks grow in a convoluted fashion None at this time. Offsite 5 feet north of property fence.
59	Blue gum	Eucalyptus globulus		5	15	Poor	Fair	2	no	grasses	Trunk grows parallel to grade then leans south None at this time. Offsite 4 feet north of property fence.
60	Blue oak	Quercus douglasii	2,3	5	4	Fair	Fair	3	no	grassees	None at this time.
61	Valley oak	Quercus lobata		8	6	Fair	Fair	3	yes	grasses	None at this time.
62	Valley oak	Quercus lobata		4	5	Fair	Fair	3	no	grasses	None at this time.
63	Plum	Prunus spp.	4,6	10	7	Poor to fair	Fair	3	no	grasses	Callusing trunk wounds various locations None at this time.
64	Interior live oak	Quercus wislizenii	2,2,5	9	12	Fair	Fair	3	no	grasses	None at this time.
65	Valley oak	Quercus lobata		9	12	Poor to fair	Fair	3	yes	grasses	Callusing trunk wounds various locations, extensive sapsucker damage None at this time.
66	Valley oak	Quercus lobata		4	4	Fair	Fair	3	no	grasses	None at this time.
67	Interior live oak	Quercus wislizenii	3,3	6	7	Fair	Fair	3	no	grasses	None at this time.
68	Interior live oak	Quercus wislizenii	2,4	6	10	Poor to fair	Fair	3	no	grasses	Trunk leans significantly to the southNone at this time.
69	Almond	Prunus dulcis	5,6	11	15	Fair	Fair	3	no	grasses	Crown 1-sided north None at this time.
70	Almond	Prunus dulcis	3,3	6	10	Fair	Fair	3	no	grasses	None at this time.
71	Almond	Prunus dulcis		8	15	Fair	Fair	3	no	grasses	None at this time.
72	Almond	Prunus dulcis	3,4,6	13	15	Fair	Fair	3	no	grasses	None at this time.
73	Valley oak	Quercus lobata		12	17	Fair	Fair	3	yes	grasses / shed	None at this time

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Orangevale, County of Sacramento, California

TREE			MULTI-	TOTAL	DLR	CONDI		Rating	Protected	Dripline	NOTABLE CHARACTERISTICS - MAINTENANCE
#	COMMON NAME	SPECIES	STEMS (inches)	DBH (inches)	(feet)	STRUCTURE	VIGOR	(0-5)	County Tree	Enviro.	RECOMMENDATIONS
74	Valley oak	Quercus lobata		4	7	Poor to fair	Fair	3	no	grasses	Trunk leans east suppressed None at this time.
75	Interior live oak	Quercus wislizenii	5,5,6	16	14	Fair	Fair	3	yes	grasses	None at this time.
76	Almond	Prunus dulcis		4	6	Fair	Fair	3	no	grasses	None at this time.
77	Interior live oak	Quercus wislizenii	3,4	7	8	Fair	Fair	3	no	grasses	None at this time.
78	Valley oak	Quercus lobata	3,4	7	5	Fair	Fair	3	no	grasses	None at this time.
79	Valley oak	Quercus lobata	6,6	12	7	Fair	Fair	3	yes	grasses	None at this time.
80	Almond	Prunus dulcis	6,6,8,9	29	15	Fair	Fair	3	no	grasses	None at this time.
81	Valley oak	Quercus lobata		7	8	Fair	Fair	3	yes	grasses	None at this time.
82	Valley oak	Quercus lobata	2,6	8	6	Fair	Fair	3	no	grasses	None at this time.
83	Valley oak	Quercus lobata		7	8	Fair	Fair	3	yes	grasses	None at this time.
84	Valley oak	Quercus lobata		5	4	Fair	Fair	3	no	grasses	None at this time.
85	Chinese pistache	Pistacia chinensis	7,8,9	24	14	Poor to fair	Fair	2	no	grasses / car port	Measured at 3' above grade, cut at 4' above grade with resulting significant sprout growth None at this time.
86	Interior live oak	Quercus wislizenii	3,3,3	9	12	Fair	Fair	3	no	grasses / shed	None at this time.
87	Interior live oak	Quercus wislizenii		4	7	Fair	Fair	3	no	grasses	None at this time.
88	Interior live oak	Quercus wislizenii	4,7,8	19	15	Fair	Fair	3	yes	grasses	None at this time.
89	Valley oak	Quercus lobata	4,5,6	14	14	Poor to fair	Fair	3	yes	grasses	Forks at 1 and 3' above grade with bark inclusions None at this time.
90	Interior live oak	Quercus wislizenii	2,5	7	11	Fair	Fair	3	no	grasses	None at this time.
91	Valley oak	Quercus lobata		25	30	Fair	Fair	3	yes	grasses	None at this time.
92	Interior live oak	Quercus wislizenii		15	20	Fair	Fair	3	yes	grasses	None at this time.

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Orangevale, County of Sacramento, California

		STATE OF BUILDING	lane or	TOTAL		CONDI			Protected		
TREE #	COMMON NAME	SPECIES	MULTI- STEMS (inches)	TOTAL DBH (inches)	DLR (feet)	STRUCTURE	VIGOR	Rating (0-5)	County Tree	Dripline Enviro.	NOTABLE CHARACTERISTICS - MAINTENANCE RECOMMENDATIONS
93	Valley oak	Quercus lobata		4	10	Fair	Fair	3	no	grasses	Crown 1-sided west None at this time.
94	Valley oak	Quercus lobata		5	10	Fair	Fair	3	no	grasses	Crown 1-sided north None at this time.
95	Plum	Prunus spp.	10 x 2	20	15	Poor to fair	Fair	2	no	grasses / drainage	Weak attachments, erosion exposing supporting roots None at this time.
96	Pecan	Carya illinoinensis	3,3,3,4	13	12	Poor to fair	Fair	3	no	grasses	Embedded chain link in lower trunk None at this time.
97	Pecan	Carya illinoinensis	4,5	9	16	Poor to fair	Fair	3	no	grasses	Trunks lean north, weak attachment None at this time.
98	Valley oak	Quercus lobata		11	14	Fair	Fair	3	yes	grasses	None at this time.
99	Interior live oak	Quercus wislizenii	6,9	15	16	Fair	Fair	3	yes	grasses	Forks at 1 and 5' above grade None at this time.
100	Interior live oak	Quercus wislizenii	7,8	15	15	Fair	Fair	3	yes	grasses	None at this time.
101	Valley oak	Quercus lobata		8	14	Fair	Fair	3	yes	berry bushes	None at this time.
102	Plum	Prunus spp.	7,8,9	24	20	Poor	Poor to fair	1	no	grasses	9" stem failed lying prone on grade exposing decay in the root crown of the remaining stems, above average amount of deadwood Remove
103	Interior live oak	Quercus wislizenii		26	36	Poor to fair	Poor to fair	2	yes	grasses	Embedded wire girdling the lower trunk, above aberage amount od deadwood Inspect annually.
104	Interior live oak	Quercus wislizenii	4,4	8	15	Poor to fair	Poor to fair	2	no	grasses	Callusing trunk wounds various locations with minor to moderate decay, crown 1-sided north None at this time.
105	Almond	Prunus dulcis	8,9	17	15	Fair	Poor to fair	3	no	grasses	Above average amount of deadwood None at this time. Offsite 2 feet south of property fence.
106	Valley oak	Quercus lobata		10	16	Fair	Fair	3	yes	grasses	None at this time. Offsite 3 feet south of property fence, tag on fence.
107	Valley oak	Quercus lobata		14	21	Fair	Fair	3	yes	grasses	None at this time. Offsite 2 feet south of property fence, tag on fence.
108	California black walnut	Junglans hindsii		4	11	Poor to fair	Fair	3	no	grasses	Callusing trunk wounds various locations, leans east None at this time.
109	Valley oak	Quercus lobata	3,7	10	13	Fair	Fair	3	yes	grasses	None at this time.
110	Plum	Prunus spp.	2,2,2,3,3	12	12	Poor to fair	Fair	2	no	grasses	Callusing trunk wounds all sides 1 to 4' above grade None at this time
111	Fig	Ficus carica	3,3,4	10	10	Poor	Poor	1	no	grasses	Several stems have died Remove

6416 Hazel Avenue Project Site

Orangevale, County of Sacramento, California

TREE INVENTORY SUMMARY

TREE	OFF		MULTI-	TOTAL	DLR	CONDI	TION	Rating	Protected	Dripline	NOTABLE CHARACTERISTICS - MAINTENANCE
#	COMMON NAME	SPECIES	STEMS (inches)	DBH (inches)	(feet)	STRUCTURE	VIGOR	(0-5)	County Tree	Enviro.	RECOMMENDATIONS
112	Interior live oak	Quercus wislizenii	3,3,4,5	15	14	Fair	Fair	3	yes	grasses	None at this time.
113	Mulberry	Morus alba		8	20	Poor to fair	Fair	3	no	grasses	Past limb failures None at this time.
114	Valley oak	Quercus lobata		17	27	Fair	Fair	3.	yes	grasses	Embedded wire lower trunk, crown 1-sided north None at this time.
115	Pecan	Carya illinoinensis		7	20	Fair	Fair	3	no	grasses	Crown 1-sided north, - None at this time.
116	Almond	Prunus dulcis	6,8,10	14	14	Poor to fair	Poor to fair	2	no	grasses	Past partial root system failure, trunk leans significantly to the north, above average amount of deadwood None at this time
117	California black walnut	Juglans hindsii		19	30	Poor to fair	Poor to fair	2	yes	grasses	Trunk leans significantly to the north, callusing basal lower trunk wound south side minor to moderate decay, embedded wire lower trunk Inspect annually
118	Interior live oak	Quercus wislizenii		5	10	Poor to fair	Fair	3	no	grasses	Trunk leans and bends north, - None at this time.
119	Plum	Prunus spp.		10	15	Poor	Poor to fair	1	no	grasses	Trunk failed and is parallel to grade with significant interior decay Remove

TOTAL INVENTORIED TREES = 119trees (1616 aggregate diameter inches)

TOTAL RECOMMENDED REMOVALS = 5 trees (81 aggregate diameter inches)

Rating (0-5, where 0 is dead) 1=5 trees; 2=9 trees; 3=105 trees; 4=0 trees; 5=0 trees; 6=0 trees

County Protected Trees = 41 trees (561 aggregate diameter inches)

All Other Inventoried Trees = 78 Trees (1055 aggregate diameter inches)