

Amazon San Jose Arborist Report

September
2020

Prepared for:

David Babock & Associates
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Summary

Arborwell, Inc. has been contracted by Gerardo Fuentes with David Babcock & Associates to provide an arborist report for the Amazon San Jose Parking and Site Improvement Project located in San Jose, California. This report will address the current status of trees designated for preservation and the potential impacts of the site improvement project on said trees. Additionally, recommendations regarding preservation of trees during development will be addressed.

Project Assignment

This report was prepared to evaluate all trees on the property, located throughout the project site at 1605 S 7th Street, San Jose California. The surveyed area is based on documents provided by the aforementioned client, including the site development plans.

Data Analysis to include the following information:

1. An inventory of 36 trees composed of 10 species growing within the proposed development area.
2. An evaluation of all 36 trees growing within the proposed development area.

Appraisal Procedures

Site evaluation was conducted on September 9th and 11th, 2020.

1. Tree species identification
2. DBH measurement of the trunk diameter at breast height of 4.5 feet above the natural grade, as defined by the International Society of Arboriculture
3. Approximate Tree Height: Visual measurement of tree height, using standard tape measure and surrounding, solid landscape elements as reference.
4. Approximate tree spread using surrounding landscape elements and aerial GIS analytics.
5. Individual tree identification number assigned and correlated to GPS site map.

****See Attached: Tree Assessment Grid*

Diagnostic Procedures – Overall Health & Structure Determination

During the site visit, conducted on September 9th and 11th, 2020, a visual inspection of the roots, trunk, scaffold (large) branches, small branches & twigs as well as foliage & buds, presence of disease or decay and vigor were considered to assess the overall health of the trees. Additionally, a visual inspection was conducted to observe any structural defects including cavities in the trunk or major leaders, uneven canopy distribution, included bark and co-dominant stems. Lastly, the viability of preservation in relation to tree location & proposed development was considered.

Scoring System:

Critical to Poor (0% to 40%) - Extreme Problems: Tree is dead with no visible growth, in severe decline, or significantly diseased

Poor to Fair (41% to 60%)- Major Problems: Tree is in decline with decay and/or structural defects present, potential for future removal

Fair to Good (61% to 80%) - Minor Problems: Minor to significant problems present; some problems treatable and/or correctable

Good to Excellent (81% to 100%): No apparent problems, tree is in overall good health and vigor and is considered treatable to any observed health or pest problems

Description of Site - Tree Location Map

The site location is a large parking lot with multiple buildings on the lot. Almost all of the trees are along the perimeter of the property, with some in a grassy lunch area near one of the buildings and a few others in a gated off back area. The included tree location map was based upon a map provided our client.

****See Attached Exhibit – Tree Location Map**

Description of Trees

Each tree is identified by species and tree identification number, which corresponds with the inventory descriptions and assessments herein.

Of the 36 trees surveyed there are 11 redwood (*Sequoia sempervirens*), 6 patula pine (*Pyrus calleryana*), 6 coast live oak (*Quercus agrifolia*), 4 evergreen pear (*Pyrus kawakamii*), 3 European white birch (*Betula pendula*), 2 California black walnut (*Juglans californica*), 1 common hackberry (*Celtis occidentalis*), 1 purple leaf plum (*Prunus cerasifera*), 1 Monterrey pine (*Pinus radiata*), 1 Hollywood juniper (*Juniperus chinensis*)

*****See Attached Exhibit – Tree Assessment Grid**

Recommendations

In addition to the attached pictorial tree index which notes the current condition of each tree , the following should be considered:

Site Wide Recommendations

The trees to remain on the site, which will be in direct contact with the public, should be pruned and an integrated pest management and tree wellness plan should be put in place. All tree work performed should be done under the direct supervision of a certified arborist who can ensure that ANSI A300 Standards and Arboricultural Best Practices are followed.

Trees Preservation & Protection Throughout Development and Grading

Any trees which may be impacted by development of the site shall have protection measures in place to avoid potential damage to the root zone, trunk or canopy. This includes, but is not limited to the establishment of a Tree Protection Zone (TPZ). However, the typical recommendation is the installation of a chain link fence with a minimum height of 60" from grade. When installation of the chain link fence cannot enclose the tree, additional measures shall be taken to protect the trunk of the tree by wrapping it. It is recommended that 4"-6" of wood mulch be placed throughout the development zone and ¾" plywood be placed on the ground within the TPZ to minimize soil compaction and protect surface roots. Equipment, materials & vehicles shall not be stored or driven through TPZ.

Applicable activities within the TPZ include, but are not limited to excavation, grading, trenching, cuts, fills & general disturbance of roots or soil within the dripline of the trees. Should these activities be necessary within the TPZ, it is recommended that the contractor use hydro-excavation, pneumatic excavation or hand digging.

Throughout development it is recommended that work near preserved trees be done under the direct supervision of a certified arborist. If the above measures are taken the likelihood of reasonable preservation will be increased. Potential impacts include root loss, soil displacement, compacted root zones, scraped trunks and broken limbs.

Certification

I, Leonardo Tuchman CERTIFY to the best of my knowledge and belief:

1. That the statements of fact contained in this plant appraisal are true and correct.
2. That the appraisal analysis, opinions and conclusions are limited only by the reported assumptions and limiting conditions, and that they are my personal, unbiased professional analysis, opinions and conclusions.
3. That I have no present or prospective interest in the plants that are the subject of this appraisal and that I have no personal interest or bias with respect to the parties involved.
4. That my compensation is not contingent upon a predetermined value or direction in value that favors the cause of the client, the amount of the value estimate, the attainment of a stipulated result, or the occurrence of a subsequent event.
5. That my analysis, opinions, and conclusions were developed, and this appraisal has been prepared in conformity with the *Guide for Plant Appraisal* (9th Edition, 2000) authored by the Council of Tree & Landscape Appraisers.
6. That method(s) found in this appraisal are based on a request to determine the value of plant(s) considering reasonable factors of plant appraisal.
7. That my appraisal is based on the information known to me at this time. If more information is disclosed, I may have further opinions.

Appraiser's Credentials

Leoardo Tuchman: I.S.A Certified Arborist WE-12453A & QAL: 146294

References

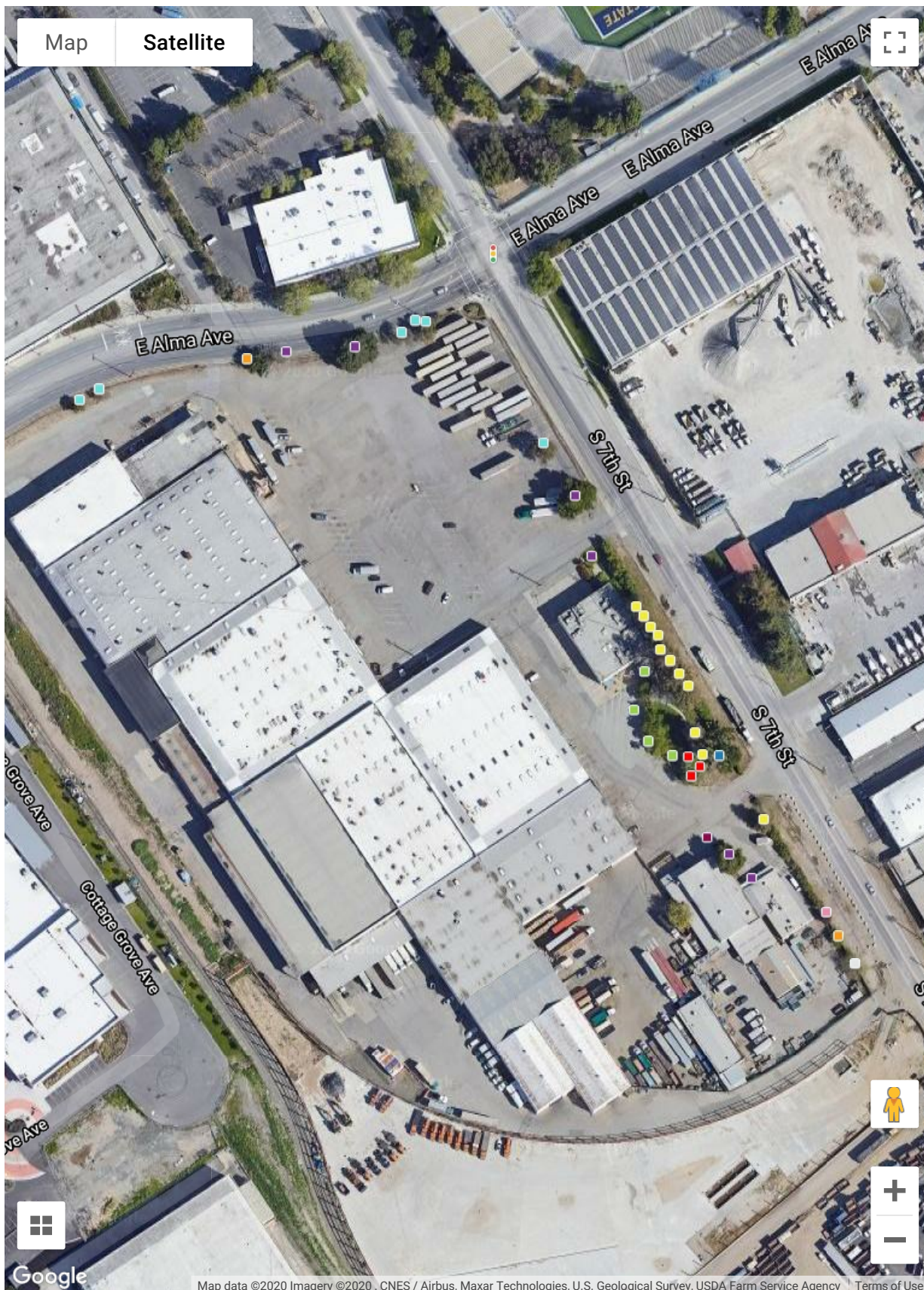
Guide for Plant Appraisal (9th Edition, 2000) authored by the Council of Tree & Landscape Appraisers

Species Classification and Group Assignment, (2004) an Official Publication of the Western Chapter of the International Society of Arboriculture.

Attachments

1. Individual Tree Map
2. Tree Assessment Grid
3. Pictorial Tree Index

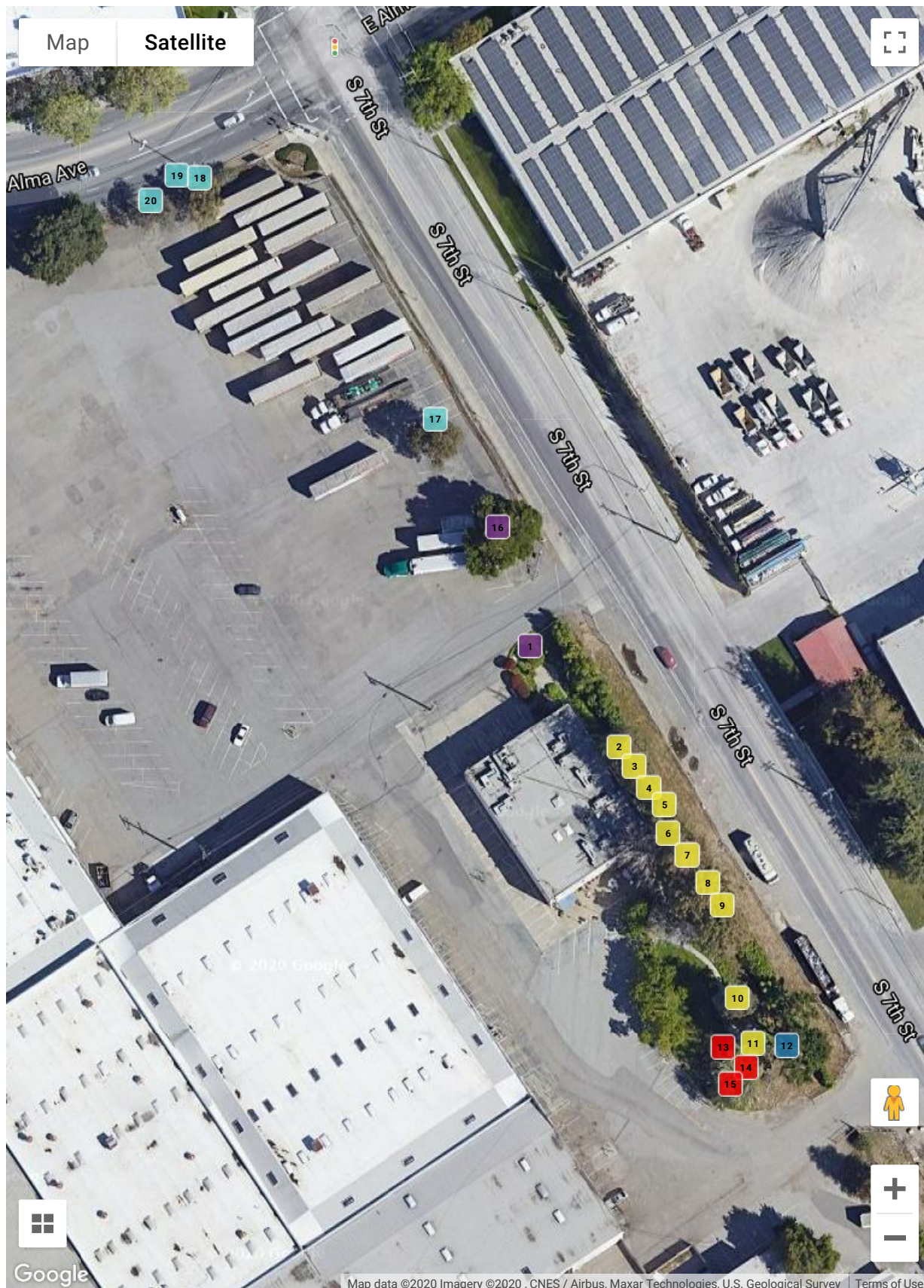
1605 S 7th Street



- Legend (36)**
- Redwood (11)
 - Pine, Patula (6)
 - Oak, Coast L... (6)
 - Pear, Evergr... (4)
 - Birch, Europ... (3)
 - Walnut, Cali... (2)
 - Plum, Purple... (1)
 - Pine, Monter... (1)
 - Juniper, Hol... (1)
 - Hackberry (1)



1605 S 7th Street

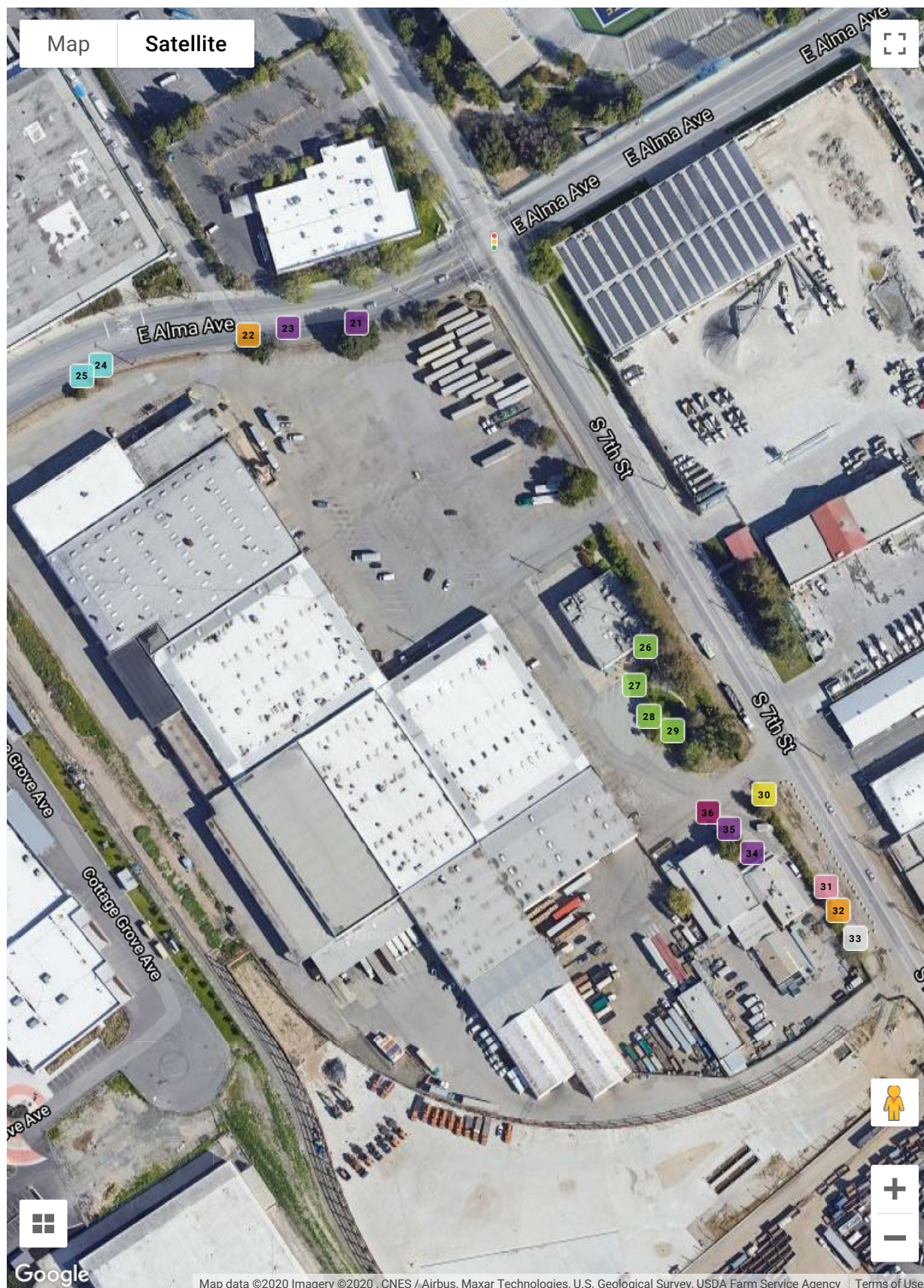


Legend (36)

- Redwood (10)
- Pine, Patula (4)
- Oak, Coast L... (2)
- Pear, Evergr... (0)
- Birch, Europ... (3)
- Walnut, Cali... (0)
- Plum, Purple... (0)
- Pine, Monter... (1)
- Juniper, Hol... (0)
- Hackberry (0)



1605 S 7th Street



Legend (36)

- Redwood (1)
- Pine, Patula (2)
- Oak, Coast L... (4)
- Pear, Evergr... (4)
- Birch, Europ... (0)
- Walnut, Cali... (2)
- Plum, Purple... (1)
- Pine, Monter... (0)
- Juniper, Hol... (1)
- Hackberry (1)



ID	Species	Botanical Name	Height (ft)	DBH (in)	Health	Canopy (ft)	Recommendation
1	Oak, Coast Live	Quercus agrifolia	1'-15'	8.5	90% - Very Good	10-15'	Construction Required Removal
2	Redwood	Sequoia sempervirens	46'-60'	38.5	80% - Good	20-25'	Construction Required Removal
3	Redwood	Sequoia sempervirens	46'-60'	24.5	60% - Fair	10-15'	Construction Required Removal
4	Redwood	Sequoia sempervirens	46'-60'	20.5	60% - Fair	10-15'	Construction Required Removal
5	Redwood	Sequoia sempervirens	46'-60'	24	60% - Fair	10-15'	Construction Required Removal
6	Redwood	Sequoia sempervirens	31'-45'	17	60% - Fair	5-10'	Construction Required Removal
7	Redwood	Sequoia sempervirens	46'-60'	41.5	80% - Good	20-25'	Construction Required Removal
8	Redwood	Sequoia sempervirens	46'-60'	31	80% - Good	15-20'	Construction Required Removal
9	Redwood	Sequoia sempervirens	46'-60'	30.5	80% - Good	15-20'	Construction Required Removal
10	Redwood	Sequoia sempervirens	46'-60'	32.5	80% - Good	15-20'	Construction Required Removal
11	Redwood	Sequoia sempervirens	31'-45'	18	80% - Good	10-15'	Construction Required Removal
12	Pine, Monterey	Pinus radiata	46'-60'	39	60% - Fair	25-30'	Construction Required Removal
13	Birch, European White	Betula pendula	16'-30'	14.5	60% - Fair	15-20'	Construction Required Removal
14	Birch, European White	Betula pendula	16'-30'	13.5	80% - Good	15-20'	Construction Required Removal
15	Birch, European White	Betula pendula	16'-30'	10.5	80% - Good	15-20'	Construction Required Removal
16	Oak, Coast Live	Quercus agrifolia	31'-45'	41	90% - Very Good	35-40'	Construction Required Removal
17	Pine, Patula	Pinus patula	31'-45'	22	60% - Fair	20-25'	Construction Required Removal
18	Pine, Patula	Pinus patula	16'-30'	17	40% - Poor	15-20'	Horticultural Based Removal
19	Pine, Patula	Pinus patula	16'-30'	9	80% - Good	5-10'	Horticultural Based Removal
20	Pine, Patula	Pinus patula	16'-30'	15.5	0% - Dead	10-15'	Horticultural Based Removal
21	Oak, Coast Live	Quercus agrifolia	31'-45'	35.5	90% - Very Good	35-40'	Preserve
22	Walnut, California Black	Juglans californica	16'-30'	7.5	40% - Poor	20-25'	Horticultural Based Removal
23	Oak, Coast Live	Quercus agrifolia	1'-15'	18.5	60% - Fair	15-20'	Preserve
24	Pine, Patula	Pinus patula	1'-15'	8.5	40% - Poor	5-10'	Horticultural Based Removal
25	Pine, Patula	Pinus patula	1'-15'	10.5	80% - Good	5-10'	Construction Required Removal
26	Pear, Evergreen	Pyrus kawakamii	16'-30'	13	80% - Good	20-25'	Construction Required Removal
27	Pear, Evergreen	Pyrus kawakamii	16'-30'	10	80% - Good	5- 10'	Construction Required Removal
28	Pear, Evergreen	Pyrus kawakamii	16'-30'	17	80% - Good	15-20'	Construction Required Removal
29	Pear, Evergreen	Pyrus kawakamii	16'-30'	13.5	80% - Good	15-20'	Construction Required Removal
30	Redwood	Sequoia sempervirens	31'-45'	20	80% - Good	10-15'	Construction Required Removal
31	Plum, Purple Leaf	Prunus cerasifera	16'-30'	8	40% - Poor	5-10'	Construction Required Removal
32	Walnut, California Black	Juglans californica	16'-30'	7.5	40% - Poor	5-10'	Construction Required Removal
33	Hackberry	Celtis occidentalis	16'-30'	24.5	40% - Poor	25-30'	Construction Required Removal
34	Oak, Coast Live	Quercus agrifolia	31'-45'	23	90% - Very Good	20-25'	Construction Required Removal
35	Oak, Coast Live	Quercus agrifolia	16'-30'	16	90% - Very Good	10-15'	Construction Required Removal
36	Juniper, Hollywood	Juniperus chinensis	16'-30'	16.5	80% - Good	10-15'	Construction Required Removal

1605 S 7th Street



September 9, 2020

Oak, Coast Live ID# 1
Oak, Coast Live
Height: 1'-15' DBH: 8.5
Health: 90% - Very Good

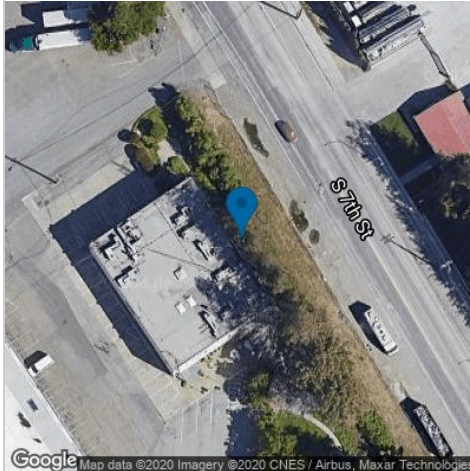


Canopy 10-15'
Crown is spindly and dense



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Redwood ID# 2
Redwood
Height: 46'-60' DBH: 38.5
Health: 80% - Good

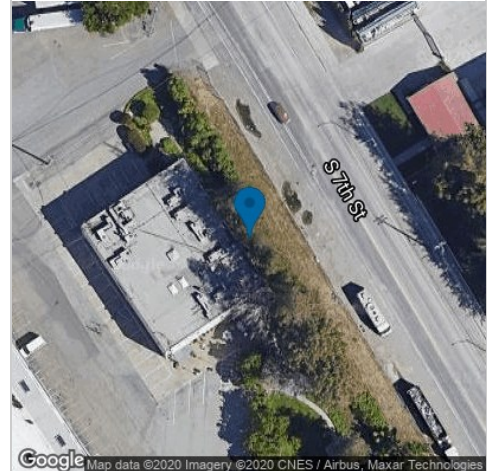


Canopy 20-25'
Canopy is touching building



September 9, 2020

Redwood ID# 3
Redwood
Height: 46'-60' DBH: 24.5
Health: 60% - Fair



Canopy 10-15'
Canopy is close to building and has lots of deadwood

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September 9, 2020

Redwood ID# 4
Redwood
Height: 46'-60' DBH: 20.5
Health: 60% - Fair



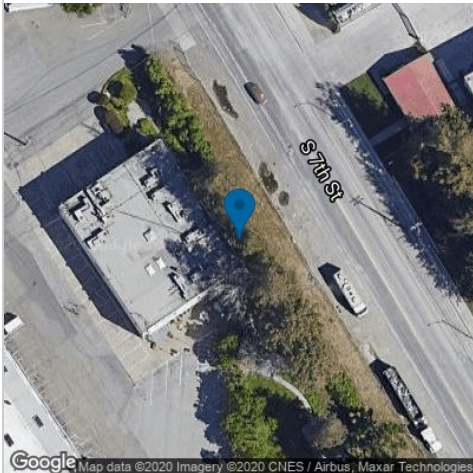
September 9, 2020

Redwood ID# 5
Redwood
Height: 46'-60' DBH: 24
Health: 60% - Fair



September 9, 2020

Redwood ID# 6
Redwood
Height: 31'-45' DBH: 17
Health: 60% - Fair



Canopy 10-15'
Canopy has lots of deadwood and is touching building



Canopy 10-15'
Canopy has a lot of deadwood



Canopy 5-10'
Canopy has lots of deadwood present

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September 9, 2020

Redwood ID# 7
Redwood
Height: 46'-60' DBH: 41.5
Health: 80% - Good

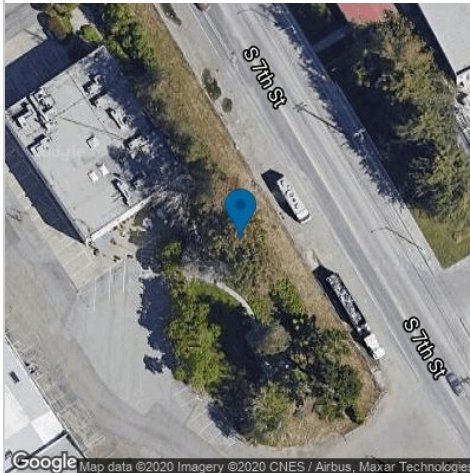


Canopy 20-25'
Deadwood and heavy limbs present



September 9, 2020

Redwood ID# 8
Redwood
Height: 46'-60' DBH: 31
Health: 80% - Good



Canopy 15-20'
Deadwood present



September 9, 2020

Redwood ID# 9
Redwood
Height: 46'-60' DBH: 30.5
Health: 80% - Good



Canopy 15-20'
Codominant leaders present

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September 9, 2020

Redwood ID# 10
Redwood
Height: 46'-60' DBH: 32.5
Health: 80% - Good

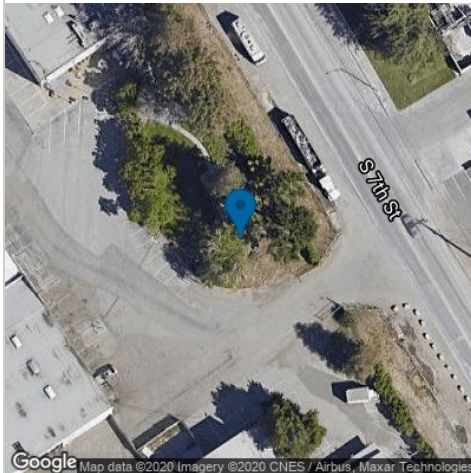


Canopy 15-20'
Canopy is low



September 9, 2020

Redwood ID# 11
Redwood
Height: 31'-45' DBH: 18
Health: 80% - Good



Canopy 10-15'
Canopy is low



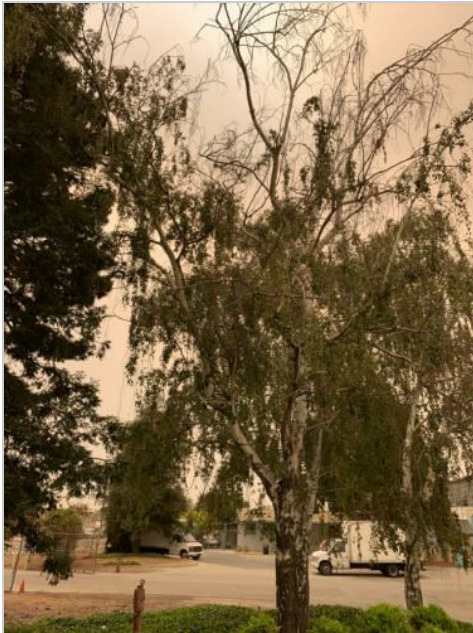
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Pine, Monterey ID# 12
Pine, Monterey
Height: 46'-60' DBH: 39
Health: 60% - Fair



Canopy 25-30'
Rad limb present and canopy is off balance with heavy limbs

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Birch, European White ID# 13
Birch, European White
 Height: 16'-30' DBH: 14.5
 Health: 60% - Fair



September 9, 2020

Birch, European White ID# 14
Birch, European White
 Height: 16'-30' DBH: 13.5
 Health: 80% - Good

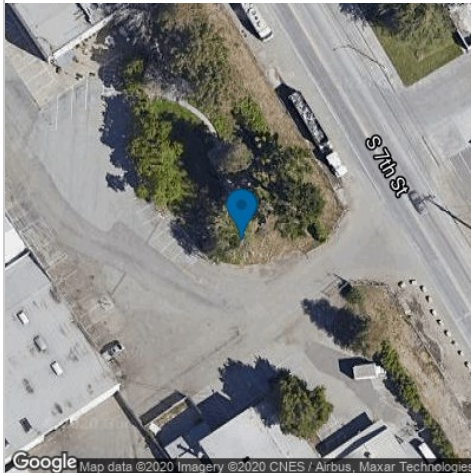


September 9, 2020

Birch, European White ID# 15
Birch, European White
 Height: 16'-30' DBH: 10.5
 Health: 80% - Good



Canopy 15-20'
 Deadwood at top of canopy present



Canopy 15-20'
 Canopy is low



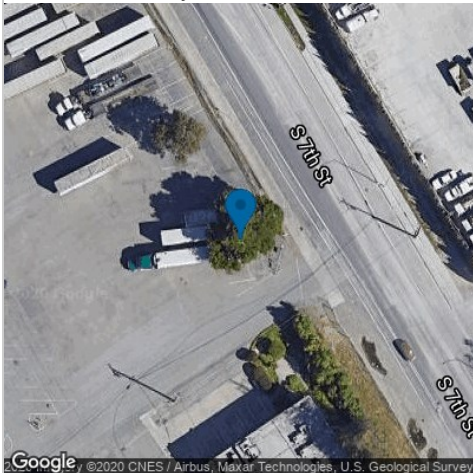
Canopy 15-20'
 Canopy is low

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September 11, 2020

Oak, Coast Live ID# 16
Oak, Coast Live
Height: 31'-45' DBH: 41
Health: 90% - Very Good

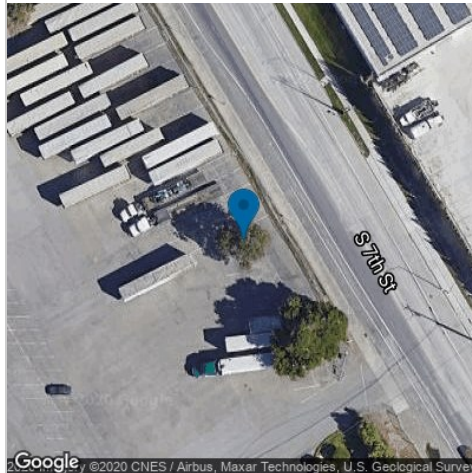


Google
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Canopy 35-40'
Heavy dense crown, overall healthy



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Pine, Patula ID# 17
Pine, Patula
Height: 31'-45' DBH: 22
Health: 60% - Fair



Google
©2020 CNES / Airbus, Maxar Technologies, U.S. Geological Survey
Canopy 20-25'
Sparse canopy with a lot of dead needles



September 11, 2020

Pine, Patula ID# 18
Pine, Patula
Height: 16'-30' DBH: 17
Health: 40% - Poor



Google
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Canopy 15-20
Canopy sparse with lots of dead wood

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Pine, Patula ID# 19
Pine, Patula
Height: 16'-30' DBH: 9
Health: 80% - Good

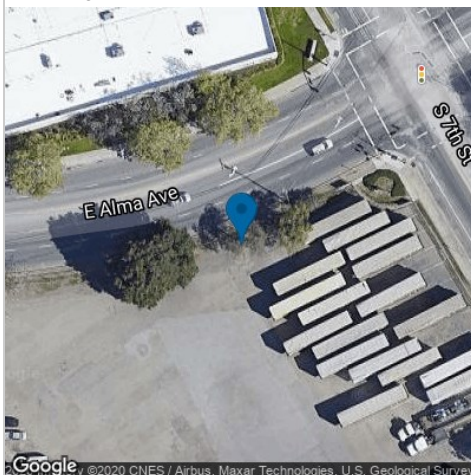


Canopy 5-10'
Volunteer tree growing very close to fence



September 11, 2020

Pine, Patula ID# 20
Pine, Patula
Height: 16'-30' DBH: 15.5
Health: 0% - Dead

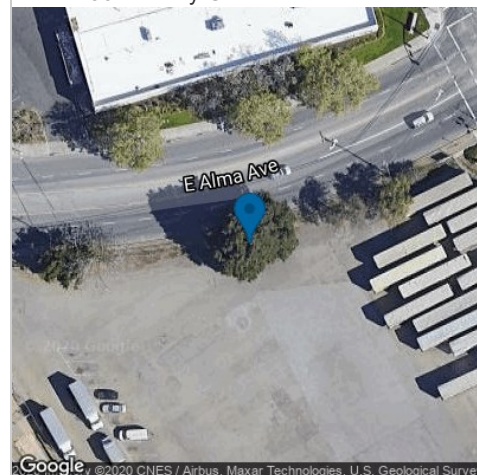


Canopy 10-15'
Tree is dead



September 11, 2020

Oak, Coast Live ID# 21
Oak, Coast Live
Height: 31'-45' DBH: 35.5
Health: 90% - Very Good



Canopy 35-40'
Canopy is dense, heavy, and low to the ground

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September 11, 2020

Walnut, California Black ID# 22
Walnut, California Black
Height: 16'-30' DBH: 7.5
Health: 40% - Poor



Canopy 20-25'
Bark is peeling and deadwood throughout canopy. Tree is in decline



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Oak, Coast Live ID# 23
Oak, Coast Live
Height: 1'-15' DBH: 18.5
Health: 60% - Fair

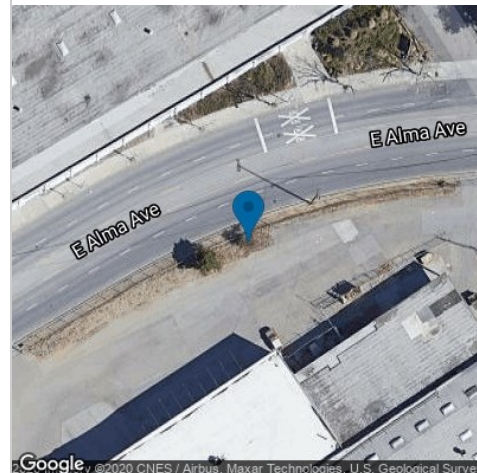


Canopy 15-20'
Canopy was topped due to line clearance, structure is poor



September 11, 2020

Pine, Patula ID# 24
Pine, Patula
Height: 1'-15'
Health: 40% - Poor



Canopy 5-10'
Top of canopy is dead

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September 11, 2020

Pine, Patula ID# 25
Pine, Patula
Height: 1'-15' DBH: 10.5
Health: 80% - Good



September 11, 2020

Pear, Evergreen ID# 26
Pear, Evergreen
Height: 16'-30' DBH: 13
Health: 80% - Good

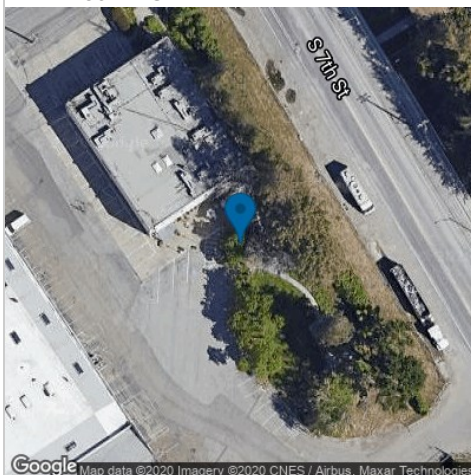


September 11, 2020

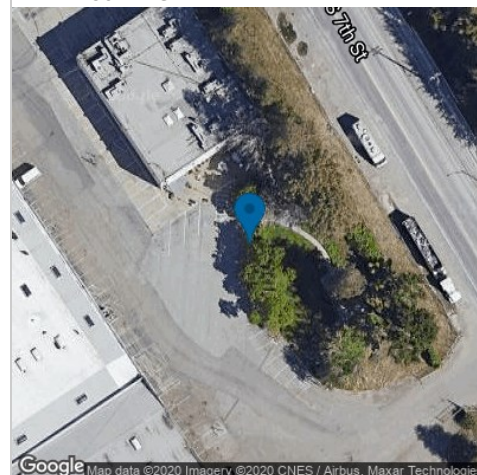
Pear, Evergreen ID# 27
Pear, Evergreen
Height: 16'-30' DBH: 10
Health: 80% - Good



Canopy 5-10'
Canopy is dense and was topped for line clearance



Canopy 20-25'
Canopy has wide spread and low stature



Canopy 5- 10'
Tree is healthy and has good structure

1605 S 7th Street



September 11, 2020

Pear, Evergreen ID# 28
Pear, Evergreen
Height: 16'-30' DBH: 17
Health: 80% - Good



September 11, 2020

Pear, Evergreen ID# 29
Pear, Evergreen
Height: 16'-30' DBH: 13.5
Health: 80% - Good



September 11, 2020

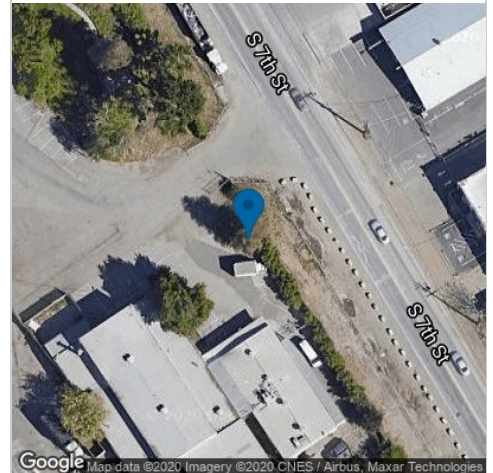
Redwood ID# 30
Redwood
Height: 31'-45' DBH: 20
Health: 80% - Good



Canopy 15-20'
Canopy has some deadwood but is overall healthy



Canopy 15-20'
Heavy limbs present



Canopy 10-15'
Canopy is low but overall healthy

1605 S 7th Street



September 11, 2020

Plum, Purple Leaf ID# 31
Plum, Purple Leaf
Height: 16'-30' DBH: 8
Health: 40% - Poor



September 11, 2020

Walnut, California Black ID# 32
Walnut, California Black
Height: 16'-30' DBH: 7.5
Health: 40% - Poor

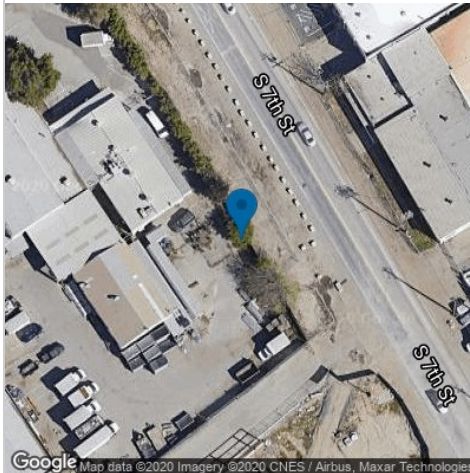


September 11, 2020

Hackberry ID# 33
Hackberry



Canopy 5-10'
Tree is growing in shrubbery



Canopy 5-10'
Canopy is healthy and has good structure



Canopy 25-30'
Canopy is extremely overgrown

1605 S 7th Street



September 11, 2020

Oak, Coast Live ID# 34
Oak, Coast Live
Height: 31'-45' DBH: 23
Health: 90% - Very Good



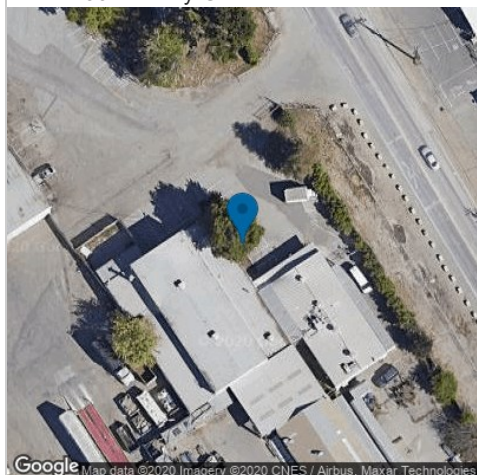
September 11, 2020

Oak, Coast Live ID# 35
Oak, Coast Live
Height: 16'-30' DBH: 16
Health: 90% - Very Good

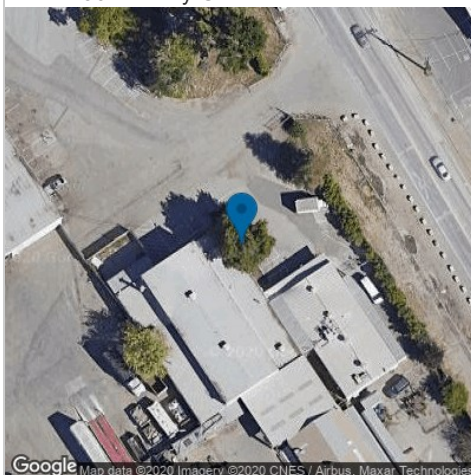


September 11, 2020

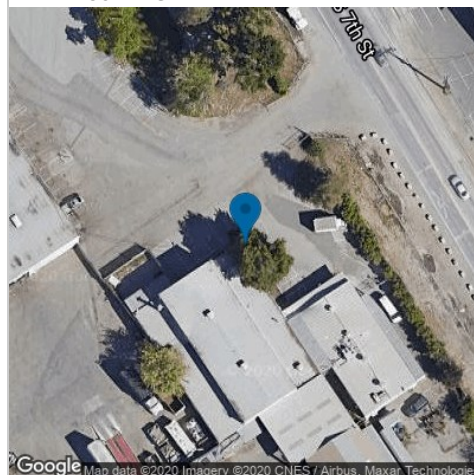
Juniper, Hollywood ID# 36
Juniper, Hollywood
Height: 16'-30' DBH: 16.5
Health: 80% - Good



Canopy 20-25'
Tree is healthy and has good structure but is very close to building



Canopy 10-15'
Canopy is off balance and very close to building



Canopy 10-15'
Canopy is healthy and growing very close to building