#### **Consulting Arborists**

3109 Sacramento Street San Francisco, CA 94115

Member, American Society of Consulting Arborists Certified Arborists, Tree Risk Assessment Qualified

email Roy@treemanagementexperts.com

cell 415.606.3610

City of Pacifica Attn: Bryan Bautista 151 Milagra Dr. Pacifica, CA 94044

RE: Carmel-Paloma ADA sidewalk project Tree Protection and Preservation Plan

Date: 12/21/23

# **ARBORIST REPORT**

And Tree Protection and Preservation Plan

#### Assignment

- Review plans for demolition and new sidewalk and roadway construction.
- Provide a site visit to inspect Protected Trees on adjacent property or in the right-of-way.
- Evaluate tree structure and health.
- Determine construction impacts, tree removal needs, mitigation requirements and tree protection methods, as needed.
- Develop an Arborist Report, per City code requirements.

#### Background

The City of Pacifica intends to construct new ADA-accessible sidewalk and roadway features in a 6-block area between Beach and Francisco Boulevards, including both sides of Paloma, Carmel and Santa Maria Avenues. Impacts to trees will include the demolition and replacement of parts of the existing sidewalks, curbs, gutters, roadbed, and utility vaults.

#### **City Ordinance**

The current City ordinance regulating trees, *Chapter 12 – Tree Preservation*, was passed on October 12, 2022. Per Sec. 4-12.01 (b) *The provisions of this chapter apply to all areas within the jurisdiction of the City of Pacifica*. Some key definitions (per Sec. 4-12.02. - *Definitions.*) that are related to this report include:

(e) "Diameter" or "DBH" shall be the diameter of a tree measured at a standard height of 4.5 feet or 54 inches above grade.

(g) "Dripline" shall refer to an imaginary vertical line that extends downward from the outermost tips of the tree branches to the ground.

- (n) "Protected tree" shall mean and include:
  - (1) All trees on...private property...which have a trunk with a diameter of 12 inches or greater at DBH.



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(q) "Regulated work" shall mean...any act or actions that could cause irreparable damage, adversely impact health; including, but not limited to...trenching, excavating, altering the grade, or paving within the dripline of a tree...

(x) "Trenching" shall mean any excavation to provide irrigation, install foundations, utility lines, services, pipe, drainage or other improvements below grade.

(y) "Tree protection and preservation plan" shall mean the plan prepared by a qualified arborist...that details existing tree conditions and measures that will be used to protect trees during development, construction, and landscaping activities.

(z) "Trunk protection zone" or "TPZ" shall mean the area of ground extending out from the trunk of a tree in all directions where activity is prohibited to protect tree roots.

Some key prohibited activities (*Sec. 4-12-03. – Prohibited activities.*) that apply to this project include:

It is unlawful for [a] person not...designated by the City to do any of the following with protected trees...:

(b) Placing or maintain...pavement...so that it impedes access to water or air to the roots of any protected tree;

(d) Placing or storing construction equipment or construction material within the trunk protection zone of a protected tree.

#### **Tree Protection and Preservation Plan**

This Arborist Report fulfills the City ordinance requirement for a tree protection and preservation plan, and must be submitted in conjunction with the development proposal.

This plan has been prepared by Roy Leggitt, a Certified Arborist, a member of the American Society of Consulting Arborists, and a member of the International Society of Arboriculture. He has over 35 years of experience as an arborist professional, and has provided consulting services to the City of Pacifica since 1999.

The Certified Arborist, Roy Leggitt, hereby acknowledges the tree protection standards enacted by the City of Pacifica. This report is based on those standards.

#### Project Arborist

The Project Arborist is hereby specified as either of these Certified Arborists from Tree Management Experts:

Roy Leggittroy@treemanagementexperts.com415.606.3610Aaron Wangaaron@treemanagementexperts.com847.630.3599

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#### Tree Inventory

The tree inventory includes all trees that are 6 inches or greater and are within 50 feet of the project limits of disturbance, including trees on adjacent property and within the public right-of-way, for a total of 47 trees.

Tree #	Addr	Street	Botanic Name	Common Name	DBH	Health	Structure	High Risk Removal	In ROW	Protected/TPZ Overlap	10x TPZ Diameter (ft)	Sheet #
1	20	Carmel	Pinus thunbergii	Japanese black pine	7	Fair	Fair				11' 8"	C1
2	23	Carmel	Hesperocyparis macrocarpa Juniperus chinensis 'Torulosa'	Monterey cypress Hollywood	20	Fair	Fair			X	<u>33' 4"</u> 13' 4"	<u>C1</u>
4	87	Carmel	Myoporum laetum	ngaio	10	Good	Good			x	16' 8"	C2
5	1709	Palmetto	Hesperocyparis macrocarpa	Monterey cypress	41.3	Fair	Fair	x	x		N/A	C2
6	120	Carmel	Prunus cerasifera	purple-leaf plum	6	Fair	Fair				10' 0"	C3
7	133	Carmel	Hesperocyparis macrocarpa	Monterey cypress	43.4	Good	Fair		х	х	72' 4"	C3
8	165	Carmel	Hesperocyparis macrocarpa	Monterey cypress	17	Good	Good			х	28' 4"	C3
9	170	Carmel	Euonymous japonicus	Japanese spindle	8	Good	Fair				13' 4"	C3
10	185	Carmel	Metrosideros excelsa	New Zealand Christmas tree	10.4	Good	Good		х	х	17' 4"	C3
11	174	Carmel	Hesperocyparis macrocarpa	Monterey cypress	48.3	Good	Poor		х	х	80' 6"	C3
12	1710	Francisco	Hesperocyparis macrocarpa	Monterey cypress	42.2	Fair	Poor	х	х		N/A	C3
13	4	Paloma	Washingtonia robusta	Mexican fan palm	10	Good	Good			х	16' 8"	C4

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14	4	Paloma	Washingtonia robusta	Mexican fan palm	10	Fair	Good				16' 8"	C4
15	4	Paloma	Washingtonia robusta	Mexican fan palm	14	Good	Good				23' 4"	C4
16	77	Paloma	Metrosideros excelsa	New Zealand Christmas tree	14	Good	Fair			х	23' 4"	C5
17	77	Paloma	Metrosideros excelsa	New Zealand Christmas tree	10	Good	Fair			Х	16' 8"	C5
18	77	Paloma	Metrosideros excelsa	New Zealand Christmas tree	12	Good	Fair			Х	20' 0"	C5
19	77	Paloma	Metrosideros excelsa	New Zealand Christmas tree	11	Good	Fair			х	18' 4"	C5
20	77	Paloma	Pittosporum crassifolium	karo	11	Fair	Poor				18' 4"	C5
21	77	Paloma	Melaleuca quiquenervia	flax-leaved paperbark	6	Fair	Fair				10' 0"	C5
22	77	Paloma	Melaleuca quiquenervia	flax-leaved paperbark	7	Fair	Fair				11' 8"	C5
23	118	Paloma	Hesperocyparis macrocarpa	Monterey cypress	38.7	Good	Fair		Х	х	64' 6"	C6
24	120	Paloma	Hesperocyparis macrocarpa	Monterey cypress	32.9	Good	Fair		Х	х	54' 10"	C6
25	134	Paloma	Hesperocyparis macrocarpa	Monterey cypress	38.3	Good	Fair		х	х	63' 10"	C6
26	137	Paloma	Hesperocyparis macrocarpa	Monterey cypress	45.6	Fair	Poor	х	х		N/A	C6
27	165	Paloma	Washingtonia robusta	Mexican fan palm	16	Good	Good			х	26' 8"	C6
28	173	Paloma	Hesperocyparis macrocarpa	Monterey cypress	17	Fair	Fair			х	28' 4"	C6
29	173	Paloma	Hesperocyparis macrocarpa	Monterey cypress	17	Fair	Fair			Х	28' 4"	C6
30	173	Paloma	Hesperocyparis macrocarpa	Monterey cypress	17	Fair	Fair			х	28' 4"	C6
31	25	Santa Maria	Myoporum laetum	ngaio	26	Fair	Fair			х	43' 4"	C7

Contractor's License #885953

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32	40	Santa Maria	Myoporum laetum	ngaio	28	Very Poor	Poor			х	46' 8"	C7
33	47	Santa Maria	Pittosporum crassifolium	karo	12	Fair	Fair			х	20' 0"	C7
34	66	Santa Maria	Pinus radiata	Monterey pine	22	Good	Fair			x	36' 8"	C8
35	1726	Palmetto	Hesperocyparis macrocarpa	Monterey cypress	27.7	Fair	Fair			х	46' 2"	C8
36	104	Santa Maria	Metrosideros excelsa	New Zealand Christmas tree	15	Good	Good			х	25' 0"	C8
37	121	Santa Maria	Metrosideros excelsa	New Zealand Christmas tree	19.3	Good	Good		Х	х	32' 2"	C9
38	142	Santa Maria	Metrosideros excelsa	New Zealand Christmas tree	18.8	Good	Good		х	х	31' 4"	C9
39	145	Santa Maria	Unknown	Unknown	6.4	Very Poor	Very Poor		х	x	10' 8"	C9
40	142	Santa Maria	Trachycarpus fortunei	windmill palm	7	Good	Good				11' 8"	C9
41	142	Santa Maria	Trachycarpus fortunei	windmill palm	7	Good	Good				11' 8"	C9
42	142	Santa Maria	Cordyline australis	cabbage tree	40	Good	Good			х	66' 8"	C9
43	142	Santa Maria	Cordyline australis	cabbage tree	18	Fair	Poor			х	30' 0"	C9
44	142	Santa Maria	Washingtonia robusta	Mexican fan palm	16	Good	Good			х	26' 8"	C9
45	142	Santa Maria	Phoenix canariensis	Canary Island Date Palm	20	Good	Good			х	33' 4"	C9
46	170	Santa Maria	Metrosideros excelsa	New Zealand Christmas tree	16	Good	Good			x	26' 8"	C9
47	170	Santa Maria	Metrosideros	New Zealand	16	Good	Good			x	26' 8"	C9

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**Tree Removals** 

Trees 5. 12 and 26



These trees were considered for removal due to their large size, placement, and impacts due to sidewalk, curb, gutter, and road surfaces. An ADA accessibility improvement project will be placing or replacing sidewalks, curbs, gutters and road surfaces in this neighborhood, and the Engineering Division is therefore considering these trees based on project needs.

Engineering had intended to modify the street parking and sidewalk layout wherever necessary to accommodate these trees, as they are doing at other sites. This report is based solely on the condition of the trees as of the inspection date, and does not include any impacts to the root systems that would occur as a consequence of the project. These recommendations are solely based on the poor or very poor structure of these trees, the risk they pose to the surroundings, and the lack of mitigation options. The intended modifications to the streetscape would not reduce risk posed by the trees, and the risk levels are not acceptable.

Trees can be considered as young, young-mature, mature, and over-mature age classes. These trees fall into the over-mature category based on the large size, loss of tops, loss of internal branch structure, many branch failures, root failures/partial uprooting, and the progression of decay. Various combinations of these factors apply to each of these trees.

Because of the large size and probable or imminent likelihood of failure, the surroundings are of critical concern. These locations include streets regularly occupied by parked cars and traffic, overhead utilities (high voltage) and service drops, and many houses and businesses in close proximity to the trees. Pedestrian traffic is particularly frequent in certain areas. There are significant or severe consequences from a large part of any one of these trees failing.

Canopies and root systems have become more and more confined. This is due to the trees becoming larger over time and out of proportion to the available space. As a consequence, some trees are now leaning due to root confinement and partial uprooting, particularly when coupled with decay in the lower trunk and root crown areas. The recent winter storms likely contributed to partial uprooting, and certainly caused major branch losses.

We have been monitoring these trees and making recommendations on behalf of the Department of Public Works for more than 20 years. These trees have been an ongoing concern and issue for more than 20 years due to large branch losses, including several that were 12 inches diameter, and many that were 6 inches or smaller in diameter. The City has been fortunate to have been able to retain these trees without an uprooting or scaffold branch failure during that intervening period. The trees have been partially maintained by PG&E, and partially maintained by the City, therefore reducing risk of branch failures during that timeframe, but still experiencing many larger branch failures and considerable property damage.

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Each of the trees has been evaluated using the ISA Basic Tree Risk Assessment Form, 2017. This is the industry-standard form used to document a tree risk assessment by a Tree Risk Assessment Qualified (TRAQ) individual. A set of photographs for each tree and surroundings follows each of the risk assessments. Photographs are framed to show the overall form of the tree, areas of specific defects, and surrounding infrastructure and targets. The risk assessments and photos are attached to and considered part of this Arborist Report.

Trees that pose high and extreme risk are not normally tolerated in urban areas unless the risk can be reduced and maintained at low or moderate levels. Pruning and supplemental support (ie: cabling) would not be effective at reducing risk levels in these trees.

Based on the high and extreme risk ratings, removal of trees 5, 12 and 26 is recommended.

#### Site Plan

All 47 trees are accurately shown on the attached marked set of site plans, as determined by City Engineering and by the Project Arborist in the field. The tree locations, tree protection zones, and 50-foot offsets for zones requiring Project Arborist supervision are shown on the 9 site plan markups, attached.

3 trees (trees 5, 12 and 26) in the ROW are planned for removal due to high risk, per the Arborist Report dated 7/8/23. The fourth tree addressed in this report (# 11) is at 174 Carmel, and it is intended to be preserved during this construction.

12 trees are in the right-of-way (ROW) and will be protected through mitigation measures outlined below.

17 private trees (trees 2, 4, 8, 13, 16, 27, 31, 32, 35, 36, 38, 42, 43, 44, 45, 46 and 47) have tree protection zones that overlap into the work zones and will be protected through mitigation measures outlined below.

18 private trees within 50 feet of the project limits have tree protection zones that are entirely outside the limits of construction, and as such are completely isolated from impacts. Aside from having the Project Arborist on site during work within 50 feet of the 12-inch diameter and larger trees, no further mitigation is required.

#### Watering During Construction

Supplemental water cannot be managed or controlled on private property. The 12 trees within the ROW can potentially be irrigated with supplemental water during construction. It is likely, however, that most water-absorbing roots are on private property, no beneath the roadbed. Supplemental water will therefore be limited to the parkstrip and other unpaved



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portions of the ROW. Supplemental watering during construction will be subject to as-found conditions by the Project Arborist during on site monitoring.

#### Tree Root Protection

The applicant is hereby provided with a tree protection and preservation plan that makes them responsible for his or her best efforts to preserve all trees which are to remain on the project site.

Per City ordinance (Sec. 4-12.11. (d) (3) ii) the TPZ is a radius of 2 times the trunk diameter

Per City ordinance (Sec. 4-12.11. (d) (3) iii) the TPZ radius shown in Table 1 is 50 feet

#### TPZ Activities Requiring Approval from the Director

Parking vehicles, building materials, refuse and excavated spoils.

Work will take place in the entire ROW and will be beneath the canopies of the trees specified above and as shown on the 9 page marked site plans. Because the roadway construction will be immediately adjacent to the 12 ROW trees, trunk protection must be provided by use of a trunk wrap (see below). Activity within the ROW will be continuous, and locations for building materials, refuse and excavated spoils will be managed by off-hauling daily.

Cutting of tree roots by utility trenching, foundation digging, placement of curbs and trenches and other miscellaneous excavation.

Work will take place in the entire ROW and will be beneath the canopies of the trees specified above and as shown on the 9 page marked site plans. Excavation will occur to various extents along the entire length of each blockside. The greatest impacts are likely around tree 11 where a new sidewalk will be installed, at various sites where driveway aprons will be installed, and at utility vaults that require replacement or resetting.

Soil disturbance or grade change.

Work will take place in the entire ROW and will be beneath the canopies of the trees specified above and as shown on the 9 page marked site plans. Most grade changes will be for purposes of installing ADA accessible sidewalks, repairing existing sidewalks, and installation or repair of driveway aprons. These activities must be done with oversight by the Project Arborist.

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#### Drainage changes.

Work will take place in the entire ROW and will be beneath the canopies of the trees specified above and as shown on the 9 page marked site plans. The site is relatively flat, and curb lines will be installed per the flowline profiles, shown on these plans. Grading to establish flowline profiles must be done with oversight by the Project Arborist.

#### Mitigation Subject to Approval from the Director

The following mitigation measures to address construction impacts are consistent with those identified in the City Ordinance and with ANSI A300 industry standards.

#### PROJECT ARBORIST ON SITE

The Project Arborist must be on site during excavation, grading, paving and any other activity within 50 feet of protected trees. 31 trees are 12-inches diameter or larger and 2 trees are less than 12 inches diameter but are in the ROW for a total of 33 trees that require the Project Arborist to be on site. See the data table (above) and the attached site plan markups for these zones, shown as blue circles.

#### **REPORT POSTING**

This Arborist Report and Tree Protection and Preservation Plan must be displayed in a conspicuous place or in proximity to the tree or trees on the construction site. It is the recommendation of the Project Arborist that the Arborist Report be posted on one side of each block, at 6 locations.

#### WARNING SIGNS

Warning signs stating "WARNING Trunk Protection Zone" must be placed on the fencing and cannot be removed.

#### PRE-CONSTRUCTION PRUNING

Pruning for clearances is likely to be required for 5 trees (tree 10, 31, 37, 46 and 47). All work must be completed according ANSI A300 Pruning Standards, and done under the direction of the Project Arborist.

#### ROOT BUFFERS

Existing asphalt and concrete surfaces will serve as temporary root buffers. Grading activity that is not on an existing asphalt or concrete surface may only be done with tracked equipment, and must be done under the direction of the Project Arborist. All graded areas that have been accessed with equipment in the absence of a root buffer will be subject to

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inspection by the Project Arborist to determine if there is soil compaction. Any compaction issues will require mitigation, per the Project Arborist.

#### TRUNK WRAP

Trees within the ROW will require a trunk wrap to protect the bark from impacts due to heavy equipment. A trunk wrap shall consist of:

- 3 layers of orange plastic snow fence to a height of at least 6 feet, secured with zip ties.
- 1 layer of 2" x 4" planking set flat against the trunk and secured with zip ties to the snow fence.
- 3 additional layers of orange plastic snow fence to a height of at least 6 feet, secured with zip ties.

#### TREE PROTECTIVE FENCING

Work carried out on parcels is typically isolated from trees by the installation of tree protective fencing that consists of 5- or 6-foot high chain link fencing mounted on 2-inch diameter galvanized iron posts, driven into the ground by 2 feet or more and at not more than a 10-foot spacing. This site is along a right-of-way rather than a discrete parcel, and construction will proceed within the length of the right-of-way for each segment or blockside. Fencing cannot be in place due to the nature of construction. City code therefore requires that the Project Arborist be on site when work occurs within 50 feet of protected trees. This requirement will apply to approximately half of the work.

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#### **Assumptions and Limiting Conditions**

- 1. Any legal description provided to the consultant is assumed to be correct. Title and ownership of all property considered are assumed to be good and marketable. No responsibility is assumed for matters legal in character. Any and all property is appraised or evaluated as though free and clear, under responsible ownership and competent management.
- 2. It is assumed that any property is not in violation of any applicable codes, ordinances, statutes or other governmental regulations.
- 3. Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible. The consultant can neither guarantee nor be responsible for the accuracy of information provided by others.
- 4. Various diagrams, sketches and photographs in this report are intended as visual aids and are not to scale, unless specifically stated as such on the drawing. These communication tools in no way substitute for nor should be construed as surveys, architectural or engineering drawings.
- 5. Loss or alteration of any part of this report invalidates the entire report.
- 6. Possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the person to whom it is addressed, without the prior written or verbal consent of the consultant.
- 7. This report is confidential and to be distributed only to the individual or entity to whom it is addressed. Any or all of the contents of this report may be conveyed to another party only with the express prior written or verbal consent of the consultant. Such limitations apply to the original report, a copy, facsimile, scanned image or digital version thereof.
- 8. This report represents the opinion of the consultant. In no way is the consultant's fee contingent upon a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.
- 9. The consultant shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule, an agreement or a contract.
- 10. Information contained in this report reflects observations made only to those items described and only reflects the condition of those items at the time of the site visit. Furthermore, the inspection is limited to visual examination of items and elements at the site, unless expressly stated otherwise. There is no expressed or implied warranty or guarantee that problems or deficiencies of the plants or property inspected may not arise in the future.

#### **Disclosure Statement**

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

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

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

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

#### **Certification of Performance**

I, Roy C. Leggitt, III, Certify:

- That we have inspected the trees and/or property evaluated in this report. We have stated findings accurately, insofar as the limitations of the Assignment and within the extent and context identified by this report;
- That we have no current or prospective interest in the vegetation or any real estate that is the subject of this report, and have no personal interest or bias with respect to the parties involved;
- That the analysis, opinions and conclusions stated herein are original and are based on current scientific procedures and facts and according to commonly accepted arboricultural practices;
- That no significant professional assistance was provided, except as indicated by the inclusion of another professional report within this report;
- That compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party.

I am a member in good standing of the American Society of Consulting Arborists and a member and Certified Arborist with the International Society of Arboriculture.

I have attained professional training in all areas of knowledge asserted through this report by completion of a Bachelor of Science degree in Plant Science, by routinely attending pertinent professional conferences and by reading current research from professional journals, books and other media.

I have rendered professional services in a full-time capacity in the field of horticulture and arboriculture for more than 35 years.

C. Ler, Signed. Certified Arborist WE-0564A

Date: 12/21/23

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#### Certification of Performance

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## I, Aaron Wang, Certify:

- That we have inspected the trees and/or property evaluated in this report. We have stated findings accurately, insofar as the limitations of the Assignment and within the extent and context identified by this report;
- That we have no current or prospective interest in the vegetation or any real estate that is the subject of this report, and have no personal interest or bias with respect to the parties involved;
- That the analysis, opinions and conclusions stated herein are original and are based on current scientific procedures and facts and according to commonly accepted arboricultural practices;
- That no significant professional assistance was provided, except as indicated by the inclusion of another professional report within this report;
- That compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party.

I am a member and Certified Arborist with the International Society of Arboriculture.

I have attained professional training in all areas of knowledge asserted through this report by completion of a Bachelor of Science degree in Forestry and Natural Resources, by routinely attending pertinent professional conferences and by reading current research from professional journals, books and other media.

I have rendered professional services in a full-time capacity in the field of horticulture and arboriculture for more than 11 years.

Signed:

Certified Arborist MW-5597A

Date: 12/21/23

aaron@treemanagementexperts.com Cell (847) 630-3599





Tree 02.jpg

Tree 04



































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CONSTRUCTION NOTES:

- 1. REMOVE ALL EXISTING TRAFFIC STRIPING, PAVEMENT MARKINGS, AND MARKERS PRIOR TO PLACEMENT OF SURFACE SEAL. CARE SHALL BE EXERCISED BY CONTRACTOR SO PAVEMENT IS NOT DAMAGED BY STRIPING REMOVAL.
- 2. MARKERS AND THERMOPLASTIC STRIPING AND MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST CALTRANS STANDARD SPECIFICATIONS AND CALIFORNIA MUTCD.
- 3. CONTRACTOR SHALL INVENTORY/FIELD LOCATE THE PAVEMENT STRIPING, MARKINGS, AND MARKERS SO THAT THE NEW PAVEMENT STRIPING AND MARKINGS CAN BE PLACED IN THEIR ORIGINAL LOCATION, EXCEPT AS DIRECTED BY THE ENGINEER, AFTER THE SURFACE SEAL WORK. SEE TECHNICAL SPECIFICATIONS FOR DETAILS.
- 4. DO NOT APPLY SURFACE SEAL TREATMENT OVER UTILITY COVERS, MONUMENT COVERS, OR GUTTERS. EDGE OF SURFACE SEAL SHALL BE NEAT AND STRAIGHT IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.
- 5. PROTECT CONCRETE VALLEY GUTTERS DURING CONSTRUCTION.
- 6. FINAL LOCATIONS AND SIZES OF BASE/SPOT REPAIRS WILL BE MARKED AND RECORDED FOR PAYMENT BY THE ENGINEER, CONTRACTOR, AND CITY REPRESENTATIVE DURING A FIELD VISIT PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL.
- 7. ALL BASE REPAIRS, SPOT REPAIRS, AND CRACK SEALING WORK SHALL BE COMPLETED PRIOR TO SURFACE SEAL WORK.
- 8. ALL C&G IS TYPE "A" UNLESS OTHERWISE NOTED. SEE DETAIL 2/D1.

STRIPING KEYNOTES:

- 1 INSTALL CALTRANS PAVEMENT MARKING "STOP"; SEE DETAIL 2/D3.
- 2 INSTALL PAVEMENT MARKING BIKE BLVD; SEE DETAIL 1/D3.
- 3 INSTALL CALTRANS TYPE D TWO-WAY BLUE MARKER; SEE DETAIL 3/D3.

SPOT REPAIRS								
TREET NAME	SPOT REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)			
RMEL AVENUE	1	WB	5	11	55			
ACH BLVD TO	2	EB	10	28	280			
ALMETTO AVE)	3	WB	26	5	130			
		CARMEL AV	ENUE, STREET TO	OTAL AREA (SF)	465			

Tree Protection Legend	CHECKED BY DATE: This drawing is and patentable its use is conc reproduce the described there purpose other
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O       50 Foot Offset Requiring Project Arborist Supervision         Tree Management Experts Consulting Arborists       Image: Consulting Arborists         Certified Arborists, Certified Tree Risk Assessors Contractor's License No. 885953, D-49 Tree Service (415) 606-3610 Roy@treemanagementexperts.com       Image: Consulting Arborists	CAR 10+
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STREET NAME CARMEL AVENUE (PALMETTO AVENUE TO FRANCISCO



CONSTRUCTION NOTES:

- 1. REMOVE ALL EXISTING TRAFFIC STRIPING, PAVEMENT MARKINGS, AND MARKERS PRIOR TO PLACEMENT OF SURFACE SEAL. CARE SHALL BE EXERCISED BY CONTRACTOR SO PAVEMENT IS NOT DAMAGED BY STRIPING REMOVAL.
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- 5. PROTECT CONCRETE VALLEY GUTTERS DURING CONSTRUCTION.
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1003 West Cutting Boulevard, Suite 110

(510) 215-3620 \* Fax (510) 215-2898

Pt. Richmond, CA 94804



Tree Protection Legend X High Risk Removal 10x Tree Protection Zone 50 Foot Offset Requiring Project Arborist Supervision	
I ree Management Experts Consulting Arborists Certified Arborists, Certified Tree Risk Assessors Contractor's License No. 885953, D-49 Tree Service (415) 606-3610 Roy@treemanagementexperts.com	
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CONSTRUCTION NOTES:

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BASE REPAIRS (3–INCH DEPTH) $(5)$									
BASE REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)					
B1	EB	11	4	44					
B2	EB	5	6	30					
B4	EB	136	10	1,360					
B6	WB	43	6	258					
B7	EB	57	7	399					
	CAF	RMEL AVENUE, STREE	T TOTAL AREA (SF)	2,091					

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Tree Protection Legend

::;) 10x Tree Protection Zone

50 Foot Offset Requiring Project Arborist Supervision

X High Risk Removal

Tree Management Experts

**Certified Arborists, Certified Tree Risk Assessors** Contractor's License No. 885953, D-49 Tree Service (415) 606-3610 Roy@treemanagementexperts.com

Consulting Arborists

65% SUBNITTAL

65% SUBILITY PRELIMINARY FOR REVIEW FOR CONSTRUCTION NOT FOR CONSTRUCTION DATE: 08/31/2023







STREET NAME
PALOMA AVENUE (PALMETTO AVENUE TO BEACH BOULEVARD)



SPOT REPAIRS									
STREET NAME	SPOT REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)				
PALOMA AVENUE	1	WB	333	13	4,329				
(PALMETTO AVE	1A	WB	9	29	261				
TO BEACH BLVD)	2A	WB	47 30		1,410				
	PALOMA AVENUE, STREET TOTAL AREA (SF) 6,000								

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- (3) INSTALL CALTRANS TYPE D TWO-WAY BLUE MARKER; SEE DETAIL 3/D3.

	BASE R	REPAIRS 5 D1		
BASE REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)
B1	WB	14	7	98
	PAL	OMA AVENUE, STREE	T TOTAL AREA (SF)	98

Tree Protection Legend  K High Risk Removal  10x Tree Protection Zone  50 Foot Offset Requiring Project Arborist Supervision
Tree Management Experts         Consulting Arborists         Certified Arborists, Certified Tree Risk Assessors         Contractor's License No. 885953, D-49 Tree Service         (415) 606-3610         Roy@treemanagementexperts.com
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STREET NAME
PALOMA AVENUE (PALMETTO AVE TO BEACH BLVD)

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- (3) INSTALL CALTRANS TYPE D TWO-WAY BLUE MARKER; SEE DETAIL 3/D3.

	BASE F	REPAIRS	5 D1	
BASE REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)
B1	WB	23	8	184
	PAL	OMA AVENUE, STREE	T TOTAL AREA (SF)	184

SPOT REPAIRS						
SPOT REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)		
2	WB	149	12	1,788		
3	WB	62	14	868		
	PAL	OMA AVENUE, STREE	T TOTAL AREA (SF)	2,656		

Tree Protection Legend X High Risk Removal 10x Tree Protection Zone 50 Foot Offset Requiring Project Arborist Supervisio Tree Management Experts Consulting Arborists Certified Arborists, Certified Tree Risk Assessors Contractor's License No. 885953, D-49 Tree Service	Tree Protection Legend         X       High Risk Removal         Image: Display the system       10x Tree Protection Zone         Image: Display the system       50 Foot Offset Requiring Project Arborist Supervisio         Tree Management Experts       Display the system         Consulting Arborists       Certified Tree Risk Assessors         Consulting Consulting Arborists       Display the service         (115) 606-3610       Roy@treemanagementexperts.com	Tree Protection Legend         X       High Risk Removal         Image: Distribution of the protection Zone         Image: Distribution of the protection of the protection Zone         Image: Distribution of the protection of the protec	Tree Protection LegendXHigh Risk RemovalImage: Distribution of the protection distribution distributicom distributicom distributicom distributicom distributicom di	Tree Protection Le	
X       High Risk Removal         10x Tree Protection Zone         50 Foot Offset Requiring         Project Arborist Supervisio         Tree Management Experts         Consulting Arborists         Certified Arborists, Certified Tree Risk Assessors         Consulting Arborists         Dertified Arborists, Certified Tree Risk Assessors         Consulting Notes	X High Risk Removal 10x Tree Protection Zone 50 Foot Offset Requiring Project Arborist Supervisio Tree Management Experts Consulting Arborists Certified Arborists, Certified Tree Risk Assessors Contractor's License No. 885953, D-49 Tree Service (415) 606-3610 Roy@treemanagementexperts.com	X High Risk Removal 10x Tree Protection Zone 50 Foot Offset Requiring Project Arborist Supervision Tree Management Experts Consulting Arborists Certified Arborists, Certified Tree Risk Assessors Contractor's License No. 885953, D-49 Tree Service (415) 606-3610 Roy@treemanagementexperts.com	X High Risk Removal 10x Tree Protection Zone 50 Foot Offset Requiring Project Arborist Supervision Tree Management Experts Consulting Arborists Certified Arborists, Certified Tree Risk Assessors Contractor's License No. 885953, D-49 Tree Service (415) 606-3610 Roy@treemanagementexperts.com	V	gend
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	REG 157 EA	PROFESS PHU 4 NO. C 87 EXP. 09/3 CIVIL VIE OF CAL	7635 0/23	)		
S	SHARP PARK PDA PEDESTRIAN IMPROVEMENT PROJECT					
OWNER		of F	RA E	0RIVE 04044		
NO.	DATE		DESCR	IPTION		
NO. PROJECT DESIGNED	DATE NO: BY:		DESCR	IPTION 1004.19.55		
NO. PROJECT DESIGNED DRAWN B	DATE NO: BY: Y:		DESCR	IPTION 1004.19.55 VL JL		
NO. PROJECT DESIGNED DRAWN B <sup>1</sup> CHECKED DATE:	DATE NO: BY: Y: BY:	FH	DESCR	IPTION 1004.19.55 VL JL 08/04/2023 08/31/2023		
NO. PROJECT DESIGNED DRAWN B <sup>1</sup> CHECKED DATE: This drawing and patenta its use is c reproduce th described th purpose oth	DATE NO: BY: Y: BY: BY: ble feature onditioned re drawing hereon, noi er than sp	FH roperty of es, and/or upon the , in whole the use pecifically	DESCR DATE DATE NCE, inclu confident user's ag or part, of the dra permitted	IPTION 1004.19.55 VL JL 08/04/2023 08/31/2023 08/31/2023 uding all patented ial information and reement not to nor the material awing for any in writing by NCE.		
NO. PROJECT DESIGNED DRAWN B CHECKED DATE: This drawing and patenta its use is c reproduce th described th purpose oth SHEET T PAA 13	DATE NO: BY: Y: BY: BY: Date By: BY: Date Pression By: Date By: Content Conten	FH roperty of es, and/or upon the r, in whole r the use becifically TO'	DESCR DATE DATE NCE, inclu confident user's ag or part, of the dro permitted	IPTION 1004.19.55 VL JL 08/04/2023 08/31/2023 08/31/2023 uding all patented ial information and reement not to nor the material awing for any in writing by NCE. JE "P" 7+50		



- 1. REMOVE ALL EXISTING TRAFFIC STRIPING, PAVEMENT MARKINGS, AND MARKERS PRIOR TO PLACEMENT OF SURFACE SEAL. CARE SHALL BE EXERCISED BY CONTRACTOR SO PAVEMENT IS NOT DAMAGED BY STRIPING REMOVAL.
- 2. MARKERS AND THERMOPLASTIC STRIPING AND MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST CALTRANS STANDARD SPECIFICATIONS AND CALIFORNIA MUTCD.
- CONTRACTOR SHALL INVENTORY/FIELD LOCATE THE PAVEMENT STRIPING. MARKINGS, AND MARKERS SO THAT THE NEW PAVEMENT STRIPING AND MARKINGS CAN BE PLACED IN THEIR ORIGINAL LOCATION, EXCEPT AS DIRECTED BY THE ENGINEER, AFTER THE SURFACE SEAL WORK. SEE TECHNICAL SPECIFICATIONS FOR DETAILS.
- 4. DO NOT APPLY SURFACE SEAL TREATMENT OVER UTILITY COVERS, MONUMENT COVERS, OR GUTTERS. EDGE OF SURFACE SEAL SHALL BE NEAT AND STRAIGHT IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.
- 5. PROTECT CONCRETE VALLEY GUTTERS DURING CONSTRUCTION
- 6. FINAL LOCATIONS AND SIZES OF BASE/SPOT REPAIRS WILL BE MARKED AND RECORDED FOR PAYMENT BY THE ENGINEER, CONTRACTOR, AND CITY REPRESENTATIVE DURING A FIELD VISIT PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL.
- 7. ALL BASE REPAIRS, SPOT REPAIRS, AND CRACK SEALING WORK SHALL BE COMPLETED PRIOR TO SURFACE SEAL WORK.
- 8. ALL C&G IS TYPE "A" UNLESS OTHERWISE NOTED. SEE DETAIL 2/D1.

# STRIPING KEYNOTES:

- (1) INSTALL CALTRANS PAVEMENT MARKING "STOP"; SEE DETAIL 2/D3.
- (2) INSTALL PAVEMENT MARKING BIKE BLVD; SEE DETAIL 1/D3.
- (3) INSTALL CALTRANS TYPE D TWO-WAY BLUE MARKER; SEE DETAIL 3/D3.

BASE REPAIRS (5) D1					
BASE REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)	
B2	EB	13	4	52	
B3	EB	38	8	304	
B4	WB	7	11	77	
B5	WB	5	12	60	
B6	WB	27	15	405	
	PAL	OMA AVENUE, STREE	T TOTAL AREA (SF)	898	

	SPOT F	REPAIRS 6 D1		
SPOT REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)
4	EB	17	4	68
5	EB	6	5	30
6	WB	26	5	130
7	WB	22	6	132
8	EB	38	6	228

PALOMA AVENUE, STREET TOTAL AREA (SF) 588

![](_page_30_Picture_17.jpeg)

Know what's **below. Call** before you dig.

![](_page_30_Picture_19.jpeg)

![](_page_31_Figure_0.jpeg)

SANTA MARIA AVENUE (PALMETTO AVENUE TO BEACH BOULEVARD)

CONSTRUCTION NOTES:

- 1. REMOVE ALL EXISTING TRAFFIC STRIPING, PAVEMENT MARKINGS, AND MARKERS PRIOR TO PLACEMENT OF SURFACE SEAL. CARE SHALL BE EXERCISED BY CONTRACTOR SO PAVEMENT IS NOT DAMAGED BY STRIPING REMOVAL.
- 2. MARKERS AND THERMOPLASTIC STRIPING AND MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST CALTRANS STANDARD SPECIFICATIONS AND CALIFORNIA MUTCD.
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- 4. DO NOT APPLY SURFACE SEAL TREATMENT OVER UTILITY COVERS, MONUMENT COVERS, OR GUTTERS. EDGE OF SURFACE SEAL SHALL BE NEAT AND STRAIGHT IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.
- 5. PROTECT CONCRETE VALLEY GUTTERS DURING CONSTRUCTION.
- 6. FINAL LOCATIONS AND SIZES OF BASE/SPOT REPAIRS WILL BE MARKED AND RECORDED FOR PAYMENT BY THE ENGINEER, CONTRACTOR, AND CITY REPRESENTATIVE DURING A FIELD VISIT PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL.
- 7. ALL BASE REPAIRS, SPOT REPAIRS, AND CRACK SEALING WORK SHALL BE COMPLETED PRIOR TO SURFACE SEAL WORK.
- 8. ALL C&G IS TYPE "A" UNLESS OTHERWISE NOTED. SEE DETAIL 2/D1.

### STRIPING KEYNOTES:

- 1 INSTALL CALTRANS PAVEMENT MARKING "STOP"; SEE DETAIL 2/D3.
- 2 INSTALL PAVEMENT MARKING BIKE BLVD; SEE DETAIL 1/D3.
- (3) INSTALL CALTRANS TYPE D TWO-WAY BLUE MARKER; SEE DETAIL 3/D3.

SPOT REPAIRS					
SPOT REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)	
1	WB	80	26	2,080	
	SANTA M	IARIA AVENUE, STREE	T TOTAL AREA (SF)	2,080	

65% SUBMITTAL

65% SUBINITY AND 65% SU

	NO.	DATE	DESCRIPTION
	PROJECT	NO:	1004.19.55
	DESIGNED	) BY:	VL
	DRAWN B	Y:	JL
	CHECKED	BY: FH	DATE 08/04/2023
	DATE:		08/31/2023
Tree Protection Legend	This drawing and patento its use is of reproduce to described the purpose other	g is the property able features, and/ conditioned upon the hereon, nor the us hereon, nor the us	of NCE, including all patented 'or confidential information and he user's agreement not to ble or part, nor the material se of the drawing for any y permitted in writing by NCE.
	SHEET	TITLE	
50 Foot Offset Requiring Project Arborist Supervision			
Tree Management Experts Consulting Arborists Certified Arborists, Certified Tree Risk Assessors	SAN		
Contractor's License No. 885953, D-49 Tree Service (415) 606-3610 Roy@treemanagementexperts.com		10+00 1	0 3 13+50
SUBMITTAL			
LIMINARY OR REVIEW OR REVIEW	DRAWIN	C	7
<b>OR CUNJ</b> 1/2023 ATE: 08/31/2023 <b>Call before you dig.</b>	SHEET	9	OF <b>16</b>

1003 West Cutting Boulevard, Suite 110

(510) 215-3620 \* Fax (510) 215-2898

NO. C 87635

SHARP PARK PDA

PEDESTRIAN

**IMPROVEMENT** 

PROJECT

151 MILAGRA DRIVE

PACIFICA, CA 94044

OWNER

<del>09/30/</del>2

Pt. Richmond, CA 94804

![](_page_32_Figure_0.jpeg)

![](_page_32_Picture_5.jpeg)

		SPOT RE	PAIRS 6 D1	)	
STREET NAME	SPOT REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)
SANTA MARIA AVENUE (PALMETTO AVENUE TO FRANCISCO BOULEVARD)	5	EB	50	4	200
		SANTA M	IARIA AVENUE, STREE	ET TOTAL AREA (SF)	200

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- 8. ALL C&G IS TYPE "A" UNLESS OTHERWISE NOTED. SEE DETAIL 2/D1.

![](_page_32_Picture_16.jpeg)

#### BASE REPAIRS (3–INCH DEPTH) $\begin{pmatrix} 5 \\ D1 \end{pmatrix}$

BASE REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)
B2	WB	80	13	1,040
	SANTA M	IARIA AVENUE, STREE	T TOTAL AREA (SF)	1,040

![](_page_32_Picture_19.jpeg)

![](_page_32_Picture_20.jpeg)

![](_page_32_Picture_21.jpeg)

10

SHEET

16

OF

**Call** before you dig.

![](_page_33_Figure_0.jpeg)

- 1. REMOVE ALL EXISTING TRAFFIC STRIPING, PAVEMENT MARKINGS, AND MARKERS PRIOR TO PLACEMENT OF SURFACE SEAL. CARE SHALL BE EXERCISED BY CONTRACTOR SO PAVEMENT IS NOT DAMAGED BY STRIP REMOVAL.
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- 2 INSTALL PAVEMENT MARKING BIKE BLVD; SEE DETAIL 1/D3.
- (3) INSTALL CALTRANS TYPE D TWO-WAY BLUE MARKER; SEE DETAIL 3/D3

BAS	E REPAIRS (3	-INCH DEPTH	) <u>5</u> D1	
BASE REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)
B1*	WB	128	13	1,664
	SANTA M	IARIA AVENUE, STREE	T TOTAL AREA (SF)	1,664

	SPOT RE		$\overline{)}$	
SPOT REPAIR ID	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)
1	EB	10	12	120
2	EB	27	11	297
3	EB	93	16	1,488
4*	WB	99	13	1,287
	SANTA M	IARIA AVENUE, STREE	T TOTAL AREA (SF)	3,192

Tree Protection Legend

::::) 10x Tree Protection Zone

50 Foot Offset Requiring Project Arborist Supervision

X High Risk Removal

Tree Management Experts

**Certified Arborists, Certified Tree Risk Assessors** Contractor's License No. 885953, D-49 Tree Service (415) 606-3610 Roy@treemanagementexperts.com

**Consulting Arborists** 

65% SUBMITTAL

**BALLININARY PRELIMINARY FOR REVIEW FOR CONSTRUCTION DATE:** 08/31/2023

IENT MAR SEAL. CAR NOT DAMA	KINGS, AND RE SHALL BE GED BY STRIPING		100 Pt. (51	03 West Cutt Richmond, ( 0) 215-3620	ting Boulev CA 94804 ) * Fax (510	/ard, Suite 110 0) 215-2898
IARKINGS ALTRANS	SHALL BE STANDARD					
THE PAVE AVEMENT LOCATION ACE SEAL	MENT STRIPING, STRIPING AND , EXCEPT AS WORK. SEE					
r utility Irface s Inical si Construc Epairs w Er, conti To start	COVERS, EAL SHALL BE PECIFICATIONS. CTION. ILL BE MARKED RACTOR, AND CITY OF CONSTRUCTION.			HERE CON	FESS/014 HU/ FR 87635 599/30/23 CIVIL CALIFORNIA	
( SEALING	WORK SHALL BE					
ed. see ; see de detail 1, arker; si	DETAIL 2/D1. TAIL 2/D3. /D3. EE DETAIL 3/D3.		S	HARP I PEDE IMPRO PRC	PARK STRIA VEME DJECT	PDA AN NT
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			PA	CIFICA	A, CA 9	94044
(FT)	120					
	1,488					
EA (SF)	1,287 3,192					
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			ESIGNED	BY:		1004.19.55
			RAWN B`	ſ:		JL
		C	CHECKED	BY: FH	DATE	08/04/2023
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			RAWING	;	C9	
Know v Cá	vhat's <b>DEIOW.</b> All before you d	ig.	SHEET	11	OF	16
			1			

Address/Tree location 1709 Palmetto (Carmel frontage)	Tree	no.	n/a		Sheet '	1 of	1
ree species Hesperocyparis macrocarpa dbh	42.2" Height 50	- CO.	Crov	vn spr	ead dia.	30'	
ssessor(s) Roy Leggitt Tools	used d-tape, visual			Time	e frame 1	year	
Target As	sessment						
		Та	rget zo	ne			1
Target description	Target protection	Target within drip line	Target within 1 x Ht.	Target within 1.5 x Ht.	Occupancy rate 1-rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction
1 Cars / street	None	X	1-1-1		4	No	N
2 High voltage	None	X			4	No	N
3 Building	None	X	1.2		4	No	N
4		1				110	-
Site Fa	actors	1	-	-			-
Tree Health and gor Low 🖄 Normal 🗆 High 🗆 Foliage None (seasonal) 🗆 N ests/Biotic	d Species Profile Ione (dead)□ Normal <u>70</u> Abiotic	% C	hlorot	ic	_% Neo	crotic	30
paries failure profile Branches M Trunk M Desert M Describe branch	failures very common t	runk	and r	oot f	ailures co	mmo	n
load	Factors	- car in c		001 1			
And exposure Protected Partial Full Wind funneling	Relativ			4.5		-	2.17
The experter instructed in think in the internet in the intern		/e crow	In 517P	Sma	III Mediu	mIII	arge
rown density Sparse X Normal Dense Interior branches Few X	Normal Dense Vines/	/e crow	n size	Sma	3 large sh	nrubs	in I
rown density Sparse⊠ Normal□ Dense□ Interior branches Few⊠ acent or expected change in load factors NO	Normal Dense Vines/1	ve crow Vistleto	n size pe/Mo	sma ss 🛛	B large sh 10 feet o	nubs f trun	arge in I k
rown density Sparse II Normal Dense IInterior branches Few II ecent or expected change in load factors <u>NO</u> Tree Defects and Conditions Af	Normal Dense Vines/1	ve crow Vistleto	n size pe/Mo	Sma ss 🛛	IL Mediu 3 large sh 10 feet o	nrubs f trun	arge in I k
rown density Sparse I Normal Dense I Interior branches Few ecent or expected change in load factors <u>No</u> Tree Defects and Conditions Af	Normal Dense Vines/f	ve crow Vistleto ure	n size be/Mo	Sma	IL Mediu 3 large sh 10 feet o	nrubs f trun	in l
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rown density Sparse I Normal □ Dense □ Interior branches Few I         ecent or expected change in load factors No         Tree Defects and Conditions Af         Crown and         Unbalanced crown I         LCR 50 %         Dead twigs/branches □	Normal Dense Vines/f	ve crow Mistleto ure	n size	Sma	Lightning of	damage	arge in l k
wown density Sparse I Normal □ Dense □ Interior branches Few I         ecent or expected change in load factors No         Tree Defects and Conditions Af         Crown and         Unbalanced crown I         LCR 50 %         Dead twigs/branches □       % overall         Broken/Hangers       Number	Normal Dense Vines/f fecting the Likelihood of Fall Branches — Cracks D Codominant M Weak attachments M	ve crow Vlistleto	n size	Sma ss 🛛	Lightning o	m Li Li nrubs f trun damage led bark	in l k
rown density Sparse IX       Normal □ Dense □ Interior branches Few IX         secent or expected change in load factors NO       NO         Tree Defects and Conditions Af         Optimized crown IX         Unbalanced crown IX       LCR 50 %         Dead twigs/branches □       % overall         Broken/Hangers       Number         Over-extended branches IX	Normal Dense Vines/I fecting the Likelihood of Fall Branches — Cracks D Codominant M Weak attachments M Previous branch failures M	ve crow Mistleto ure 12 <sup>4</sup> ,	oe/Mo	Sma ss 🛛	Lightning of Includ	m Li Li nrubs f trun damage led bark % ( present	in link
rown density Sparse IX       Normal □       Dense □       Interior branches       Few IX         ecent or expected change in load factors       No         Tree Defects and Conditions Af         Crown and         Unbalanced crown IX       LCR 50 %         Dead twigs/branches □       % overall       Max. dia.         Broken/Hangers       Number       Max. dia.         Over-extended branches       IX         Pruning history       No	Normal Dense Vines/I fecting the Likelihood of Fall Branches — Cracks  Codominant  Weak attachments  Previous branch failures  Dead/Missing bark  Canke	Ve crow Mistleto ure 12 <sup>4</sup> , rs/Galls,	6 <sup>n</sup> Burls [	Sma ss [23] _ Cavi _ Sim _ Sap	Lightning of Lightning of Includ ity/Nest hole ilar branches	damage	arge in l k
rown density Sparse IX       Normal □       Dense □       Interior branches Few IX         ecent or expected change in load factors       No         Tree Defects and Conditions Af         Crown and         Unbalanced crown IX       LCR 50 %         Dead twigs/branches □       % overall       Max. dia.         Broken/Hangers       Number       Max. dia.         Over-extended branches IX       Pruning history         Crown cleaned IX       Thinned IX       Raised IX	Normal Dense Vines/I fecting the Likelihood of Fall Branches — Cracks  Codominant  Weak attachments  Previous branch failures  Dead/Missing bark  Canke Conks  Hea	Vistleto Vistleto ure 12 <sup>4</sup> , rs/Galls, rtwood	6 <sup>st</sup> decay	Sma ss 🛛 : _ Cavi _ Sim _ Sap 🖾 _ L	Lightning of Lightning of Includ ity/Nest hole ilar branches wood damag Likely	damage damage led bark % o present ge/deca	arge in l k
rown density Sparse IX       Normal □       Dense □       Interior branches       Few IX         ecent or expected change in load factors       No         Tree Defects and Conditions Af         — Crown and         Unbalanced crown IX       LCR_50 %         Dead twigs/branches □       % overall       Max. dia.         Broken/Hangers       Number       Max. dia.         Over-extended branches IX       Pruning history         Crown cleaned IX       Thinned IX       Raised IX         Reduced       IX       Topped IX       Lion-tailed IX	Normal Dense Vines/I fecting the Likelihood of Fall Branches — Cracks  Codominant  Weak attachments  Previous branch failures  Dead/Missing bark  Conks  Hea Response growth Poor	Ve crow Mistleto ure 12 <sup>4</sup> , rs/Galls, rtwood	6 <sup>n</sup> /Burls [ decay	Sma pss IX	Lightning of Lightning of Includ ity/Nest hole ilar branches wood damag	damage damage led bark % c present ge/deca	in I k
rown density Sparse IX Normal □ Dense □ Interior branches Few IX         cent or expected change in load factors NO         Tree Defects and Conditions Af         Crown and         Unbalanced crown IX       LCR 50 %         Dead twigs/branches □       % overall         Broken/Hangers       Number         Over-extended branches IX       Max. dia.         Pruning history       Crown cleaned IX         Crown cleaned IX       Thinned IX       Raised IX         Flush cuts       IX       Other	Normal Dense Vines/f fecting the Likelihood of Fall fecting th	lure 12 <sup>μ</sup> , rs/Galls,	6 <sup>31</sup> /Burls [ decay	Sma ss IX	Lightning of Lightning of Includ ity/Nest hole ilar branches wood damag ikely	m L L nrubs f trun f trun damage led bark % o present ge/deca	in I k
rown density Sparse ⊠ Normal □ Dense □ Interior branches Few ⊠ ecent or expected change in load factors No Tree Defects and Conditions Af — Crown and Unbalanced crown ⊠ LCR 50 % Dead twigs/branches □% overall Max. dia Broken/Hangers Number Max. dia Over-extended branches ⊠ Pruning history Crown cleaned ⊠ Thinned ⊠ Raised ⊠ Reduced ⊠ Topped ⊠ Lion-tailed ⊠ Flush cuts ⊠ Other End-heavy branches Condition (s	Normal Dense Vines/f fecting the Likelihood of Fall fecting th	Ile crow Mistlete ure 12 <sup>4</sup> , rs/Galls, rtwood	6 <sup>3</sup> /Burls I decay	Sma pss IX	Lightning of Includ	m L L nrubs f trun f trun damage led bark % ( present ge/deca	in I k
rown density Sparse IX       Normal □       Dense □       Interior branches Few IX         ecent or expected change in load factors       No         Tree Defects and Conditions Af         — Crown and         Unbalanced crown IX       LCR 50 %         Dead twigs/branches □       % overall       Max. dia.         Broken/Hangers       Number       Max. dia.         Over-extended branches IX       Pruning history         Crown cleaned IX       Thinned IX       Raised IX         Reduced       IX       Topped IX       Lion-tailed IX         Flush cuts       IX       Other	Normal Dense Vines/f fecting the Likelihood of Fall fecting th	Ile crow Mistlete ure 12 <sup>4</sup> , rs/Galls, rtwood	6 <sup>31</sup> /Burls [ decay	Sma ss IX	Lightning of Includ	m Li Li nrubs f trun damage led bark % c present ge/deca	Arge in I k
rown density Sparse ⊠ Normal □ Dense □ Interior branches Few ⊠         ecent or expected change in load factors No         Tree Defects and Conditions Af         — Crown and         Unbalanced crown ⊠       LCR 50 %         Dead twigs/branches □       % overall         Max. dia.	Normal □ Dense □       Vines/f         fecting the Likelihood of Fall         I Branches —         Cracks □         Codominant ⊠         Weak attachments ⊠         Previous branch failures ⊠         Dead/Missing bark ⊠         Conks □       Heal         Response growth       Poor         i) of concern	ve crow Mistleta ure 12 <sup>±</sup> , rs/Galls, rtwood	6 <sup>31</sup> /Burls [ decay Minor Possible	Sma sss IX	Lightning of Light	m L L nrubs f trun f trun damage led bark % ( present ge/decar ignifican mminen	
rown density Sparse ⊠ Normal □ Dense □ Interior branches Few ⊠         recent or expected change in load factors No         Tree Defects and Conditions Af         Crown and         Unbalanced crown ⊠       LCR 50 %         Dead twigs/branches □       % overall         Broken/Hangers       Number         Over-extended branches ⊠         Pruning history         Crown cleaned ⊠       Thinned ⊠         Reduced       ⊠         Topped ⊠       Lion-tailed ⊠         Flush cuts       ⊠         Other	Normal Dense Vines/f fecting the Likelihood of Fall fecting th	ve crow Mistleta ure 12 <sup>±</sup> , rs/Galls, rtwood	6 <sup>31</sup> /Burls I decay Minor Possible	Sma ss IX : Cavi Sim Sap Sap Fall Dir Pr	Lightning of Includ Lightning of Includ ity/Nest hole ilar branches wood damag ikely stance loderate S obable Ir	m L L nrubs f trun f trun damage led bark % o present ge/deca	in l k
rown density Sparse ⊠ Normal □ Dense □ Interior branches Few ⊠         recent or expected change in load factors No         Tree Defects and Conditions Af         Orevenue         Unbalanced crown ⊠       LCR 50 %         Dead twigs/branches □       % overall         Broken/Hangers       Number       Max. dia.         Over-extended branches ⊠       Pruning history         Crown cleaned ⊠       Thinned ⊠       Raised ⊠         Flush cuts       ⊠       Other         End-heavy branches       Condition (state)         Part Size       6"       Fall Distance       45'         Load on defect       N/A □       Minor □       Moderate □       Significant ⊠         Likelihood of failure       Improbable □       Probable □       Imminent ⊠	Normal Dense Vines/f fecting the Likelihood of Fall fecting the Likelihood of failure fec	Alistleta ure 12 <sup>μ</sup> , rs/Galls, rtwood able □ and	6 <sup>a</sup> /Burls I decay Minor Possible	Sma sss IX : Cavi Sim Sap IX Fall Di M = Pr : Coll	Lightning of Light	m L L nrubs f trun f trun damage led bark % ( present ge/deca	
rown density Sparse IX Normal Dense Interior branches Few IX   becent or expected change in load factors No   Tree Defects and Conditions Af   — Crown and   Unbalanced crown IX   LCR 50 %   Dead twigs/branches A   Broken/Hangers   Number   Max. dia.   Over-extended branches IX   Pruning history   Crown cleaned IX   Thinned IX   Reduced   IX   Topped IX   Lion-tailed IX   Flush cuts   IX   Other   End-heavy branches   Condition (state   Part Size   6"   Fall Distance   45'   Load on defect   N/A I   Minor I   Moderate I   Significant IX   Likelihood of failure   Improbable I   Probable I   Imminent IX	Normal Dense Vines/f fecting the Likelihood of Fall Fecting th	Alistleta	6 <sup>34</sup> /Burls I decay Minor Possible Root	Sma sss IX : _ Cavi _ Cavi _ Sim _ Sap IX _ L Fall Dir E M E Pr : Coll 12" (e	Lightning of Lightning of Includ ity/Nest hole ilar branches wood damag ikely stance oderate S obable Ir lar est) Stem	m L L nrubs f trun f trun damage led bark % ( present ge/decar ignifican mminen	in l k
rown density Sparse X Normal Dense Interior branches Few X   cent or expected change in load factors No   Tree Defects and Conditions Af — Crown and Unbalanced crown X LCR 50 % Dead twigs/branches A Max. dia. — Crown and Unbalanced crown X LCR 50 % Dead twigs/branches A Max. dia. — Over-extended branches X Pruning history Crown cleaned X Thinned X Raised X Reduced X Topped X Lion-tailed X Flush cuts X Other — End-heavy branches Condition (see 10.0000) Part Size 6" Fall Distance 45' Load on defect N/A Minor Moderate Significant X Likelihood of failure Improbable Possible Probable Imminent X Dead/Missing bark X Abnormal bark texture/color X Codominant stems Included bark C Cracks X	Normal Dense Vines/f fecting the Likelihood of Fail Branches — Cracks  Codominant  Weak attachments  Weak attachments  Previous branch failures  Previous branch failures  Dead/Missing bark  Conks  Hea Response growth Poor For for concern Part Size Load on defect N/A  Likelihood of failure Improba Collar buried/Not visible  Dead	All crow Alistleta ure 12 <sup>4</sup> , rs/Galls, rtwood able and De cay X	6 <sup>31</sup> /Burls I decay Minor Possible <b>Root</b>	Sma sss [X] : _ Cavi _ Sim ] Sap [X] _ L [X] _ L Fall Di [X] _ L [X] _ L [	Lightning of Lightning of Includ ity/Nest hole ilar branches wood damag ikely stance oderate stance stance coderate stance stance coderate stance coderate stance coderate stance conks/Mus	m L L nrubs f trun f trun damage led bark % o present ge/deca ignifican mminen girdling hrooms	
wwn density Sparse ⊠ Normal □ Dense □ Interior branches Few ⊠         Image: Sparse ⊠ Normal □ Dense □ Interior branches Few ⊠         Image: Sparse ⊠ Normal □ Dense □ No         Image: Sparse ⊠ Normal □ Dense □ No         Image: Sparse ⊡ Normal □ Dense □ Sparse □ No         Image: Sparse ⊡ No	Normal Dense Vines/f fecting the Likelihood of Fall Godominant  Weak attachments  Weak attachments  Previous branch failures  Previous branch failure  Previous branch	All crow Mistleta ure 12 <sup>4</sup> , rs/Galls, rtwood able	Minor Possible Root Likely	Sma ss IX 	Lightning of Lightning of Lightning of Includ ity/Nest hole ilar branches wood damag ikely stance oderate stance oderate stance conks/Mus Cavity 🖾	m L L nrubs f trun f trun damage led bark % o present gresent gresent gredling hrooms 15_% o	arge in in k C Scirc.
own density Sparse X Normal Dense Interior branches Few X   accent or expected change in load factors NO   Tree Defects and Conditions Af — Crown and Unbalanced crown X LCR 50 % Dead twigs/branches M Max. dia. — Crown and Unbalanced crown X LCR 50 % Dead twigs/branches M Max. dia. — Orown and Over-extended branches X Pruning history Crown cleaned X Thinned X Raised X Pruning history Crown cleaned X Thinned X Raised X Pruning history Crown cleaned X Thinned X Raised X Pruning history Crown cleaned X Thinned X Raised X Pruning history Crown cleaned X Thinned X Raised X Pruning history Crown cleaned X Thinned X Raised X Pruning history Crown cleaned X Thinned X Raised X Pruning history Crown cleaned X Thinned X Raised X Pruning history Crown cleaned X Thinned X Raised X Reduced X Topped X Lion-tailed X Lion-tailed X Fall Distance 45' Load on defect N/A I Minor I Moderate Significant X Likelihood of failure Improbable Possible Probable Imminent X — Trunk — Dead/Missing bark X Abnormal bark texture/color X Codominant stems I Included bark C Cracks X Sapwood damage/decay X Cankers/Galls/Burls Sap ooze I Lightning damage Heartwood decay X Conks/Mushrooms I	Normal Dense Vines/f fecting the Likelihood of Fall Codominant  Weak attachments  Weak attachments  Previous branch failures  Previou	Alistleta	6 <sup>34</sup> /Burls I decay Minor Possible Root 	Sma sss IX : _ Cavi _ Cavi _ Sim ] Sap IX _ L Fall Dir E Coll 12" (e /	Lightning of Lightning of Lightning of Includ ity/Nest hole ilar branches wood damag ikely stance stance oderate S obable Ir lar est) Stem Conks/Mus Cavity & re from trun	m L L nrubs f trun f trun f trun girdling hrooms 15_% c k_0	arge in in k and in the second
wown density Sparse X Normal Dense Interior branches Few X   accent or expected change in load factors NO   Tree Defects and Conditions Af — Crown and Unbalanced crown X LCR 50 % Dead twigs/branches M Max. dia Broken/Hangers Number Max. dia Over-extended branches X Pruning history Crown cleaned X Thinned X Raised X Reduced X Topped X Lion-tailed X Flush cuts X Other Condition (s Part Size 6" Fall Distance 45' Load on defect N/A Minor Moderate Significant X Likelihood of failure Improbable Possible Probable Imminent X Dead/Missing bark X Abnormal bark texture/color X Codominant stems Included bark Cracks X Sapwood damage/decay X Cankers/Galls/Burls Sap ooze I Lightning damage Heartwood decay X Cavity/Nest hole % circ. Depth Poor taper X	Normal Dense Vines/f fecting the Likelihood of Fail Branches — Cracks □ Codominant ☑ Weak attachments ☑ Previous branch failures ☑ Dead/Missing bark ☑ Canke Conks □ Part Size Load on defect N/A □ Likelihood of failure Improba Collar buried/Not visible ☑ Dead	Alistleta	Minor Possible Possible	Sma sss [X] : _ Cavi _ Sim ] Sap [X] Fall Di [ M 2 Pr : Coll 12" (e / Distance	Lightning of Lightning of Includ ity/Nest hole ilar branches wood damag ilkely stance loderate stance stance coderate stance for the stance conks/Mus Cavity [2] te from trun Soil we	damage f trun f trun damage led bark % o present ge/deca ignifican mminen girdling hrooms 15_% o k0 eakness	arge ink
rown density Sparse IX Normal Dense Interior branches Few IX   becent or expected change in load factors NO   Tree Defects and Conditions Af   — Crown and   Unbalanced crown IX   LCR 50 %   Dead twigs/branches I   Broken/Hangers   Number   Max. dia.   Broken/Hangers   Number   Max. dia.   Over-extended branches IX   Pruning history   Crown cleaned IX   Thinned IX   Reduced   IX   Topped IX   Lion-tailed IX   Flush cuts   IX   Other   End-heavy branches   Condition (state   Part Size   O''   Fall Distance   45'   Load on defect   N/A   Minor   Moderate   Significant IX   Likelihood of failure   Improbable   Possible   Probable   Included bark   Cracks IX   Sapwood damage/decay IX   Cankers/Galls/Burls   Sapwood damage/decay IX   Cankers/Galls/Burls   Sapwood damage   Heartwood decay IX   Conks/Mushrooms   Cavity/Nest hole   % circ.   Depth   Poor taper IX	Normal Dense Vines/f fecting the Likelihood of Fall Gracks Codominant V Dead/Missing bark C Conks C Dead/Missing bark C Conks C Hea Response growth Poor for oncern Part Size Load on defect N/A Likelihood of failure Improba Collar buried/Not visible V Dead C Dead C Dead C Dead C Cracks C Cut/Damaged Root plate lifting Prob Response growth Very	Alle and De cay [X].	Minor Possible Possible All C	Sma sss [X] : 	Lightning of Lightning of Lightning of Includ ity/Nest hole ilar branches wood damag ilkely stance oderate S obable In lar — est) Stem Conks/Mus Cavity Ø te from trun Soil we	m L L nrubs f trun f trun f trun girdling hrooms 15_% c k_0 cakness	arge ink Diric. X X I I I I I I I I I I I I I I I I I
rown density Sparse IX Normal Dense Interior branches Few IX   Tree Defects and Conditions Af   — Crown and   Unbalanced crown IX   LCR 50 %   Dead twigs/branches I   Broken/Hangers Number   Max. dia	Normal □ Dense □       Vines/f         fecting the Likelihood of Fall <b>Branches</b> —         Cracks □         Codominant ⊠         Weak attachments ⊠         Previous branch failures ⊠         Dead/Missing bark ⊠         Conks □         Hea         Response growth         Poor         c) of concern         Part Size         Load on defect       N/A □         Likelihood of failure         Dead       Dead         Collar buried/Not visible ⊠         Dead       Dead         Coze □       Cracks ⊠         Cracks ⊠       Cut/Damaged         Root plate lifting ⊠       Prob         Response growth       Very         Condition (s) of concern       □	able and poor Jproce	Minor Possible Root Likely	Sma ass IX : _ Caving _ Caving _ Sim ] Sap IX _ L Fall Dif [ M - Pr : Coll 12" (e / Distance	Lightning of Lightning of Includ ity/Nest hole ity/Nest hole ity/Nest hole itar branches wood damag ikely stance	m L L nrubs f trun f trun f trun girdling hrooms 15_% c k_0 eakness	arge I in k Q Scirc. X X I I I I I I I I I I I I I I I I I
rown density Sparse ⊠ Normal □ Dense □ Interior branches Few ⊠         Tree Defects and Conditions Af         — Crown and         Unbalanced crown ⊠       LCR 50 %         Dead twigs/branches □       % overall         Max. dia.	Normal □ Dense □       Vines/f         fecting the Likelihood of Fall         fecting the Likelihood of Fall         Branches —         Cracks □         Codominant ⊠         Weak attachments ⊠         Previous branch failures ⊠         Dead/Missing bark ⊠ Canke         Conks □       Hea         Response growth       Poor         of concern	able roots B ably poor	Minor Possible Root Likely	Sma sss IX : 	Lightning of Lightning of Lightning of Includ ity/Nest hole ilar branches wood damag ikely stance stance obable In lar — est) Stem Conks/Mus Cavity I te from trun Soil we	m L L nrubs f trun f trun damage led bark % o present ge/decar ignifican mminen girdling hrooms 15_% o k0 cakness 50'	
rown density Sparse ⊠ Normal Dense ☐ Interior branches Few ⊠         Tree Defects and Conditions Af         — Crown and         Unbalanced crown ⊠       LCR 50 %         Dead twigs/branches □       % overall         Max. dia.	Normal □ Dense □       Vines/f         fecting the Likelihood of Fall <b>Branches</b> —         Cracks □	Alistleta	Minor Possible Root Likely	Sma ass IX : Cavi Sim Sim Sim Sap I Sap I Sap I Coll 12" (e / Distance II Distance II Distance	Lightning of Lightning of Includ ity/Nest hole ilar branches wood damag ikely stance stance oderate S obable Ir lar est) Stem Conks/Mus Cavity Ø soil we ance	m L L nrubs f trun f trun damage led bark % ( present ge/decar ignifican mminen girdling hrooms 15_% ( k0 eakness 50'	

#### **Risk Categorization**

							likel	ihod	d				- 1	1.00			4.1	
	in her it.		Failu	ure			Imp	act		Fail	ure &	& Im Aatrix	pact 1)	Cor	nseq	luen	ces	11.1
Tree part	of concern	Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant	Severe	Risk rating (from Motrix 2)
					Х				Х				Х		T	Х		High
Branch	End-heavy	1			Х	Х			1-0	Х	11						Х	Low
	branches				Х	Х				Х						Х		Low
1.000		1.1	4.4	Х					Х			Х		1		Х		High
Trunk /	Stem Failure			х					Х			X	. 1			jr.	X	High
Stem				Х					Х			Х					Х	High
and the second		1		X			E		Х	1		X		41		ii.	Х	High
Whole	Uprooting	111		X		111		14	х		11	Х		1.1			Х	High
Tee		-		Х				X			Х						Х	Mod
		-																
	Tree part Branch Trunk / Stem Whole Tree	Tree partCondition(s) of concernBranchEnd-heavy branchesTrunk / StemStem FailureWhole TreeUprooting	Tree part     Condition(s) of concern     and and and and and branches       Branch     End-heavy branches       Trunk / Stem     Stem Failure       Whole Tree     Uprooting	Tree part       Condition(s) of concern       Failure         Branch       End-heavy branches       Image: search searc	Tree part     Condition(s) of concern     Failure       and and an another and another and another and another anothe	Tree part       Condition(s) of concern       Failure         and and an another and a strength of concern       and another anoth	Tree part     Condition(s) of concern     Failure       aig of out units     aig of out units     aig of out units       Branch     End-heavy branches     aig of out xis       Branch     End-heavy branches     aig xis       Trunk / Stem     Stem Failure     aig xis       Whole     Uprooting     xis       Whole     uprooting     xis	$\frac{1}{1}$ Tree part $\frac{1}{1}$ $\frac{1}$	LikelihoodTree partCondition(s) of concernFailureImpact $\frac{19}{19}$ of $\frac{19}{19}$ of $\frac{19}{19}$ $\frac{19}{19}$ of $\frac{19}{19}$ $\frac{19}{19}$ of $\frac{19}{19}$ $\frac{19}{19}$ of $\frac{19}{19}$ $\frac{19}{19}$ of $\frac{19}{19}$ BranchEnd-heavy branches $1$ $X$ $X$ $1$ Trunk / StemStem Failure $X$ $X$ $1$ Trunk / StemStem Failure $X$ $1$ $1$ Whole TreeUprooting $X$ $1$ $1$ Whole Tree $1$ $X$ $1$ $1$ $X$	$\frac{1}{1} \frac{1}{1} \frac{1}$	$\frac{1}{1} \frac{1}{1} \frac{1}$	$\frac{1}{1} \frac{1}{1} \frac{1}$	$\frac{1}{1} \frac{1}{1} \frac{1}$	$\frac{1}{10000000000000000000000000000000000$	$\frac{1}{1000} = \frac{1}{1000} = 1$	$\frac{1}{1} \frac{1}{1} \frac{1}$	Tree part         Condition(s) of concern         Failure         Impact         Failure & Impact (from Matrix 1)         Consequence           and of concern         and of concern </td <td>Tree part         Condition(s) of concern         Failure         Impact         Failure &amp; Impact (from Matrix 1)         Consequences           af ge of sige of unit         af ge of unit         a</td>	Tree part         Condition(s) of concern         Failure         Impact         Failure & Impact (from Matrix 1)         Consequences           af ge of sige of unit         af ge of unit         a

Likelihood		Likelih	ood of Impact	
of Failure	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

#### Matrix 2. Risk rating matrix.

Likelihood of		Consequer	nces of Failure	
Failure & Impact	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low

#### Notes, explanations, descriptions

![](_page_35_Figure_6.jpeg)

![](_page_35_Picture_7.jpeg)

Mitigation options 1. Remove tree.							Residual risk	None
2							Residual risk	
3		_					Residual risk	· · · · · ·
4							Residual risk	_
Overall tree risk rating		Low 🗆	Moderate 🗆	High 🛛	Extreme 🗖			
Overall residual risk N	Ione 🖾	Low 🗖	Moderate 🗆	High 🛛	Extreme 🗖	Recommended inspection interv	al N/A	

all residual risk	None 🖾	Low	Moderate L	High 🛛	Extreme 🗀	Recommended inspection interval	IN/A
		1001-001		10.506.0			

Data 🛛 Final 🗆 Preliminary Advanced assessment needed 🖾 No 🗆 Yes-Type/Reason

None relevant to determination Inspection limitations INone IVisibility IAccess IVines IRoot collar buried Describe

# 137 Paloma

![](_page_37_Picture_0.jpeg)

![](_page_38_Picture_0.jpeg)

![](_page_39_Picture_0.jpeg)

![](_page_40_Picture_0.jpeg)

![](_page_41_Picture_0.jpeg)

197 Delama		Date73/2	3	nin	10	ne <u>IP</u>	VI 1	4
especies Hesperocyparis macrocarba	dbh 49.1"	Height 45	,no	Troi	Nn ch	_ Sneet	50'	-1
essor(s) Roy Leggitt	Tools used d-ta	ape, visual		_ CIU	Tim	e frame 1	vear	1
cash(a)	Target Assessment					e manie	1001	
1	larget Assessment		T	raot zo		1	1	1
Target description		Target protection	Target within drip line	Target within 1 tht.	Target within 1.5 x Ht.	Occupancy rate 1-rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction
Cars / street		None	X	1		4	No	No
High voltage		None	X	1.11		4	No	No
House		None	X	2.7	1. 1.	4	No	N
			1					1
	Site Factors							
Tre Or Low D Normal X High D Foliage None (sease	e Health and Species	Profile	% C	hloro	tic	% Net	crotic _	5
ts/Biotic	Abiotic		in the second	-		-11		
cies failure profile Branches 🖾 Trunk 🖾 Roots 🖾 Descr	ibe branch landes	very common,		anui	0011	anuies co	mino	<u>ur</u>
iree Delects and C	onditions Affecting th	e Likelihood of Fal	lure					
- C	onditions Affecting th Crown and Branch	e Likelihood of Fal nes —	lure					-
Unbalanced crown 🖾 LCR 50 % Dead twigs/branches 🗆% overall Max. dia. Broken/Hangers Number Max. dia. Over-extended branches 🖾 Pruning history Crown cleaned 🖾 Thinned 🖾 Raise Reduced 🖾 Topped 🖾 Lion- Flush cuts 🖾 Other End-beauxy branches	Cracks Cracks Codon Cracks Codon Cod	e Likelihood of Fal	6" 6" rs/Galls, rtwood	/Burls l decay	_ Cav _ Sim □ Sap	Lightning Incluc ity/Nest hole ilar branches wood damag _ikely	damage led bark % o present ge/deca	
Unbalanced crown 🛛 LCR 50 % Dead twigs/branches 🗆% overall Max. dia. Broken/Hangers Number Max. dia. Over-extended branches 🖾 Pruning history Crown cleaned 🖾 Thinned 🖾 Raise Reduced 🖾 Topped 🖾 Lion- Flush cuts 🖾 Other End-heavy branches	Crown and Branch Cracks Codon Weak a Previor Cod I Dead/I tailed I Conks Respor Condition (s) of concer	e Likelihood of Fal	6 <sup>33</sup> rs/Galls, rtwood	/Burts l decay	_ Cav _ Sim □ Sap	Lightning Incluc ity/Nest hole ilar branches wood damag <b>_ikely</b>	damage led bark % ( present ge/deca	e 🛛 circ. t 🛛 y 🖾
	conditions Affecting th         Crown and Branch         Cracks         Codon         Weak a         Previor         ed       Dead/l         tailed       Conks         Respor         Condition (s) of concer         5'       Part Si         ignificant IX       Likelih	e Likelihood of Fai	6" rs/Galls, rtwood	/Burls l decay Minor Possible	_ Cav _ Sim D Sap M _ L Fall Di e N e P	Lightning ( Incluc ity/Nest hole ilar branches wood damag <b>ikely</b> stance foderateS robable	damage led bark % ( present ge/deca ignifican mminen	
	conditions Affecting th         Crown and Branch         Cracks         Codon         Weak a         Previou         Dead/l         tailed         Condition (s) of concert         5'         Part Si         ignificant IX         Load on         Winnent IX	e Likelihood of Fal	6" rs/Galls, rtwood	/Burls l decay Minor Possible	Cav Sim Sap   Fall Di N e P	Lightning ( Incluc ity/Nest hole ilar branches owood damag _ikely stance	damage led bark % ( present ge/deca ignifican mminen	

#### **Risk Categorization**

				Likelihood										11	A				
Target		a la la		Failure Impact			Failure & Impact (from Matrix 1)				Consequences								
(Target number or description)	Tree part	of concern	Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant	Severe	Risk rating (from Motrix 2)
Cars						X				Х				Х		T	Х		High
High voltage	Branch	End-heavy	1			X	Х				Х							Х	Low
Building	1	branches				Х			X				X				X		Mod
Cars	C al contra i		1.1	4	X		1		1	X			Х		-		Х		High
High voltage	Trunk /	Stem Failure			Х		i, i			X			X				je j	X	High
Building	Stem				X					X			Х					Х	High
Cars	The second		1		X					X			X	-	1		ΪĮ	Х	High
High voltage	Whole	Uprooting	11		X			12		X		14	х		1.1			X	High
Building	1166				Х					X			Х					Х	High
Cars	0			6.1	X					X			X		1			Х	High
High voltage	Branch	End-heavy	1		X		Х			2	Х	-1-1			Ē	1	11	Х	Low
Building	Diarion	branch			Х		4			X			X					Х	High

#### Matrix I. Likelihood matrix.

Likelihood of Failure	Likelihood of Impact									
	Very low	Low	Medium	High						
Imminent	Unlikely	Somewhat likely	Likely	Very likely						
Probable	Unlikely	Unlikely	Somewhat likely	Likely						
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely						
Improbable	Unlikely	Unlikely	Unlikely	Unlikely						

#### Matrix 2. Risk rating matrix.

Likelihood of	Consequences of Failure									
Failure & Impact	Negligible	Minor	Significant	Severe						
Very likely	Low	Moderate	High	Extreme						
Likely	Low	Moderate	High	High						
Somewhat likely	Low	Low	Moderate	Moderate						
Unlikely	Low	Low	Low	Low						

#### Notes, explanations, descriptions

Mitigation options 1. Remove tree.

2.\_\_\_\_\_ 3.\_\_\_\_

![](_page_43_Figure_7.jpeg)

![](_page_43_Figure_8.jpeg)

Residual risk None
Residual risk
Residual risk
 Residual risk

Sector and the sector of the				
Overall tree risk rating	Low 🛛	Moderate 🗆	High 🖾	Extreme 🛛

Data 🛛 Final 🗆 Preliminary Advanced assessment needed 🖾 No 🗆 Yes-Type/Reason \_\_\_\_

Inspection limitations None Dvisibility DAccess Dvines Root collar buried Describe None relevant to determination

![](_page_44_Picture_0.jpeg)

![](_page_45_Picture_0.jpeg)

![](_page_46_Picture_0.jpeg)

# 1709 Palmetto

![](_page_48_Picture_0.jpeg)

![](_page_49_Picture_0.jpeg)

![](_page_50_Picture_0.jpeg)

![](_page_51_Picture_0.jpeg)

Address/Tree location 1/ TU Francisco (Garmel frontade)	Date	3	-1-	Tin	ne_ <u>1PN</u>	Λ	4
reaction Hesperocyparis macrocarpa dbb	42 0" Height 45	, no	n/a Crow		_Sheet	O	1
Assessor(s) Roy Leggitt Tools us	ed d-tape, visual		CION	Time	frame 1	vear	
	cu u upo, nouu		-	_ 110.00	- manne	Jour	
larget Asse	ssment	1 .		. 1	-		-
Target description	Target protection	Target within drip line	Target within 1 1 x Ht.	Target within a	Occupancy rate 1-rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction practical?
1 Cars / street	None	X			4	No	No
2 High voltage	None	X			4	No	No
3 Buildings	None	X	1.2		4	No	No
4 Pedestrians	None	X			3	No	No
Site Fact	ors	1.12	-	-			
pecies failure profile Branches ⊠ Trunk ⊠ Roots ⊠ Describe branch fa Load Fac Vind exposure Protected □ Partial □ Full ⊠ Wind funneling □ crown density Sparse □ Normal ⊠ Dense □ Interior branches Few ⊠ N	ailures very common, t ctors Relativ Iormal Dense <b>Vines/I</b>	runk a ve crow Vlistleto	and ro n size pe/Mos	Smal	ailures co	mmo m 🗆 L	n arge D
Recent or expected change in load factors <u>NO</u> Tree Defects and Conditions Affe	cting the Likelihood of Fai	ure					
/	free and a second						
- Crown and E	Branches —						7
	Cracks □ Cracks □ Codominant ⊠ Weak attachments ⊠ Previous branch failures ⊠ Dead/Missing bark ⊠ Canke Conks □ Response growth Poor of concern End-heavy	6" rs/Galls/ rtwood y bran	/Burls [] decay   nches	Cavi Simi Sap Z	Lightning o Includ ty/Nest hole ilar branches wood damag ikely	damage ed bark % c present e/decay	
	Branches —         Cracks □         Codominant ⊠         Weak attachments ⊠         Previous branch failures ⊠         Dead/Missing bark ⊠         Conks □       Hea         Response growth       Poor         of concern       End-heavy         Part Size       6"         Load on defect       N/A □         Likelihood of failure       Improblements	6" rs/Galls/ rtwood y bran	/Burls D decay I nches F Minor Possible	Cavi Simi Sap R	Lightning of Includ ty/Nest hole ilar branches wood damag ikely stance oderate Si obable	damage ed bark % c present e/decay 45' gnifican nminent	
	Cracks □ Codominant ⊠ Codominant ⊠ Weak attachments ⊠ Previous branch failures ⊠ Dead/Missing bark ⊠ Canke Conks □ Response growth Poor of concern End-heavy Part Size 6" Load on defect N/A □ Likelihood of failure Improba	6" rs/Galls/ rtwood y bran	/Burls D decay I nches F Minor Possible <b>Root</b>	Cavi Simi Sap Sap Fall Dis Fall Dis Coll	Lightning of Includ ty/Nest hole ilar branches wood damag ikely stance oderate Si obabler	damage ed bark % c present e/decay 45' gnifican nminent	

#### **Risk Categorization**

			Likelihood										-	1.00						
Target		and the second se	Failure Impact					Failure & Impact (from Matrix 1)				Consequences								
(Target number or description)	Tree part	of concern	Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant	Severe	Risk rating (from Motrix 2)	
Cars/Street/Peds						X				Х				Х			T	Х	Extrem	
High voltage	Branch	End-heavy	1.			X	Х				Х							X	Low	
Buildings		branches				X			Х				X				Х		High	
Cars/Street/Peds	-0.2	1 (2 (A) 1 (A)			Х			E	1	Х			Х					X	High	
High voltage	Branch	End-heavy	End-heavy scaffold		11.11	x		Х				Х		11.1					X	Low
Buildings		scanoid			X					X			Х					X	High	
Cars/Street/Peds	Truck /	0.000	1		X					х	11		Х				Ĩ	X	High	
High voltage	Stem	Stem Failure	111		X		11			Х		11.	Х					Х	High	
Buildings					Х				X		-	Х						X	Mod	
Cars/Street/Peds	Mbala					X	0			х	11.1	11		X				X	Extrem	
High voltage	Tree	Uprooting				X		E		Х	1.3			Х	110		11	X	Extrem	
Buildings						X			X				X					X	High	

#### Matrix I. Likelihood matrix.

Likelihood	Likelihood of Impact									
of Failure	Very low	Low	Medium	High						
Imminent	Unlikely	Somewhat likely	Likely	Very likely						
Probable	Unlikely	Unlikely	Somewhat likely	Likely						
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely						
Improbable	Unlikely	Unlikely	Unlikely	Unlikely						

#### Matrix 2. Risk rating matrix.

Likelihood of	Consequences of Failure									
Failure & Impact	Negligible	Minor	Significant	Severe						
Very likely	Low	Moderate	High	Extreme						
Likely	Low	Moderate	High	High						
Somewhat likely	Low	Low	Moderate	Moderate						
Unlikely	Low	Low	Low	Low						

#### Notes, explanations, descriptions

Mitigation options

North

1. Remove tree							Residual risk None
2						1	Residual risk
3							Residual risk
4							Residual risk
Overall tree risk rating		Low 🗖	Moderate 🗆	High 🗆	Extreme 🖾		
Overall residual risk	None 🖾	Low 🗖	Moderate 🗆	High 🗖	Extreme 🗖	Recommended inspection interv	al N/A
A REAL PROPERTY AND A REAL PROPERTY AND A				1.00	A THE STREET		

Data 🛛 Final 🖾 Preliminary Advanced assessment needed 🖾 No 🗆 Yes-Type/Reason \_\_\_\_

Inspection limitations Mone Dvisibility DAccess Dvines Root collar buried Describe None relevant to determination

![](_page_54_Picture_0.jpeg)

![](_page_55_Picture_0.jpeg)

![](_page_56_Picture_0.jpeg)

![](_page_57_Picture_0.jpeg)

![](_page_58_Picture_0.jpeg)

![](_page_59_Picture_0.jpeg)

![](_page_60_Picture_0.jpeg)

![](_page_61_Picture_0.jpeg)