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AUG 12 2011



Ed Gurka, Consulting Arborist
Member, American Society of Consulting Arborists

CITY OF SAUSALITO

Member, International Society of Arboriculture
Certified Arborist, Western Chapter, # 0418

August 1, 2011

ASSIGNMENT:

A request to provide an Arborist Report for Stefan Hastrup, Turnbull Griffen & Haeslopp and Daphane Edwards, MLA, for the Collier Reynolds Residence located at 2-2 $\frac{1}{2}$ Bulkley Avenue construction project. Plants scheduled for removal, and replacement are located on public right of way and private property locations. The proposed removals will include replacement of landscape plants with plants suitable to the designated location. This report will provide information on trees within the front yard area and make recommendations for future construction plans.

OBSERVATIONS and DISCUSSIONS:

On July 7, 2011, I met with Mr. Stephan Hastrup at 2 Bulkley Avenue property. The residence is in the process of renovation construction. The access to the courtyard is through an entrance gate that opens to a stairway that serves as a passage from Bulkley Avenue to the front courtyard and entrance to the residence. A retaining wall supports Bulkley Avenue from the courtyard approximately 12-15 feet below. To soften the effect of the retaining wall, two narrow planter beds on either side of the stairway and just above the courtyard are where four trees grow. Numbered tree inventory tags were placed on each tree and are referenced to this report. They are described as follows:

Four trees are located in the public right of way. This is based on the site plan presumed to be accurate. These trees are completely out of public view and provide the main benefit to the property due to their location below the street level.

To either side of the stairway landing there are two Arborvitae Evergreen trees of the Cupressaceae family. The trees frame the stairway from the courtyard to Bulkley Avenue.

- #1, *Chamaecyparis*, False Cypress, Arborvitae. CBH (Circumference at Breast Height) 5.7 inches, located 57 inches from retaining wall in raised planter bed between the courtyard and retaining wall. Photograph page 3.
- #2 *Chamaecyparis*, False Cypress, Arborvitae. CBH 2.3 inches, located opposite tree #1 in raised planter bed between the courtyard and retaining wall. Photograph page 3.
- #3 *Magnolia, soulangiana*, CBH 2.4, 1.2, 1.3 feet and 8.2 inches. The tree's height is 18 feet. The tree consists of four stems originating at the base of the tree. The tree placement is directly against the retaining wall and 43 inches from the outer edge. Upper canopy branches are defoliated on alternate branch tips. The bare branch tips indicate a root problem from the restricted space location. Photograph page 4.
- #4 *Acer palmatum*, Japanese Maple, CBH 4.5, 4, 1.5, and 7 inches. This is a young multi-stem Maple tree with three upright stems originating at the base of the tree. It has a height of 18 feet. Photograph page 5.

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Prepared by Ed Gurka, Independent Services, San Rafael, California

Trees that are located on private property subject to review are two trees located in the courtyard area between the retaining wall and front wall of the residence. They are identified as follows;

- **#5 *Betula pendula*, European White Birch.** The tree consists of three upright stems originating at the trunk base. The complete CBH is 1.9, 1.6 feet and 8 inches. This equals 50 inches. The tree is a non-native species and native to summer rainy climates. It does not perform well in California climates due to the lack of summer rainfall. The upper canopy exhibits branch tip dieback associated with root problems. The dieback can be attributed to the climate conditions. Condition is rated as fair to poor. See photograph page 6
- **#6 *Betula pendula*, European White Birch.** This tree is directly next to Birch number 5 in the courtyard. CBH is two, and 1.7 feet total CBH is 44 inches. Condition is rated as fair to poor. See Photograph page 6.
- **#7 *Chamaecyparis, obtusea*, Arborvitae. Cypress.** This tree is located 30 inches from the front wall of the home. CBH is 1.5 feet. This tree species and its varieties are native and non-native to California. The tree is in good condition and pruned to be displayed as a feature tree. See photograph on page 7.
- **#8, 9, 10, Three *Chamaecyparis*, False Cypress, Arborvitae.** These trees form a screen between 2 Bulkley Avenue front yard and the neighboring property to the south. These three trees are in good condition. See photograph on page 8 of this report.

RECOMMENDATIONS:

Chamaecyparis trees 1 and 2, removal is recommended. The location in a very constricted space for a tree of this size roots will soon damage the planter and retaining wall if not removed. This planter is 5 feet wide and appropriate plants for this location are small shrubs, small perennial plants.

Trees #3 and #4, *Magnolia* and *Acer palmatum* both located in the public right of way area of the landscape are recommended for removal. The planter bed size cannot contain the root system of these trees. When they mature the root confinement will crack the retaining wall requiring extensive repair work and this wall supports Bulkley Avenue directly 6 feet above the patio. The retaining wall and planter is the only buffer to Bulkley Avenue. The separation is now visible in the lower section of the wall nearest the *Acer* tree along the outer planter wall. Replacing the removed trees is not advised. Planting even a small tree would eventually require removal when roots conflict with the retaining wall. The narrow shallow planter is only suitable for small shrubs or annual perennial flower plants such as *Santolina*, *Erigeron*, or *Nandina*.

Trees #5 and #6, the two Birch trees are recommended for removal and replacement with species more adaptable to a Sausalito climate. They are rated as fair to poor condition and maintaining them to fit the climate and conditions is difficult and would eventually require removal. *Betula* species are best suited in a climate with abundant rainfall throughout the year and best suited for riparian locations. Selection of a more suitable feature tree such as *Magnolia soulangiana* Saucer Magnolia, twelve species listed in *Western Gardening*, *Magnolia stellata* Star Magnolia, seven varieties, *Cercis occidentalis*, Western Red Bud, *Arbutus unedo*, Strawberry tree, or *Prunus yedoensis*, Flowering Cherry are species that provide features such as red color trunk, spring flowers, or fall color. All are deciduous with the exception of *Arbutus* species that are evergreen. These choices require less maintenance and are most adaptable to the climate and location. If removal is granted, the selections are an opportunity for a replacement tree that will not block neighboring views or require topping to reduce height.

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Tree # 7 *Chamaecyparis obtuse* is recommended for removal. The tree is within the area if the front wall expansion a direct conflict with the building construction plans. The replacement of courtyard patio trees is suggested as the alternative to replacing this tree.

Trees 8, 9, and 10, *Chamaecyparis, obtusa*, are planned as removals and replacement with *Podocarpus* species that form a denser screening at maturity. The recommendation is that the existing three *Chamaecyparis* trees planned for removal are replaced with four replacements to form the screen between 2 Bulkley Avenue and the neighboring property just to the south.



Trees #1 & 2, *Chamaecyparis, obtuse* on either side of stairway recommended for removal.

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Tree #3, a multi stem Magnolia against the retaining wall is recommended for removal.

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Acer palmatum, Japanese Maple tree # 4, in outdoor planter with roots affecting planter bed wall

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#5 and #6 two Betula trees in front courtyard of property in fair to poor condition. Recommendation is for replacement with a more suitable species for a Sausalito climate and a lower height when mature to accommodate views from neighboring properties.

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Architect plans indicate front wall extension that is within the area of existing Cypress tree # 7.

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Three Cypress trees proposed to be replaced with Podocarpus trees that will provide a denser canopy.

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2 Bulkley Avenue Tree Appraisals

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2 Bulkley Avenue, Sausalito Tree Appraisals Sheet					
Trunk Formula Method 9th edition					
Tree numbers	Tree Species	CBH (inches)	Condition rating	Appraised value	Comments
1	Cupressus, species	2	80%	\$99.00	conflicting location
2	Cupressus, species	2.25	80%	\$100.00	conflicting location
3	Magnolia, soulangeana	50.2	90%	\$783.00	conflicting location
4	Acer, palmatum	17	70%	\$89.00	conflicting location
5	Betula, pendula	50	30%	\$123.00	Not recommended for N. California climates
6	Betula, pendula	50	30%	\$137.00	Not recommended for N. California climates
7	Cupressus, species	12.5	80%	\$281.00	conflicting location
8	Cupressus, species	9.5	80%	\$194.00	Replace
9	Cupressus, species	12.5	80%	\$281.00	Replace
10	Cupressus, species	14	80%	\$157.00	Replace

SUMMARY:

This report concludes with all criteria necessary for consideration for the tree permits. The tree appraisal is listed above in this brief spreadsheet format. The detailed forms of these calculations are available on request. The most critical issue are the trees within the planter bed. If they are not removed, they will compromise the retaining wall and planter structure. There is no apparent loss of soil stability if the trees are removed since they are located on flat terrain. If additional information is required, a soil engineer should be retained for a comprehensive study of the location. Replacement trees will be installed in locations where trees are proposed to be removed. In these situations, it will be necessary to grind tree stumps to install replacement trees. Suggestions for replanting including select plants are mentioned in this report and the Landscape Architect will provide additional selection of plant material suitable for the location.

Contact Information:

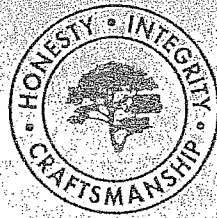
Ed Gurka
Independent Services
197 Coleman Drive
San Rafael, CA. 94901.
Mobile: 415 601-5337
Email: Edgurka1@aol.com

Affiliations and Licenses:

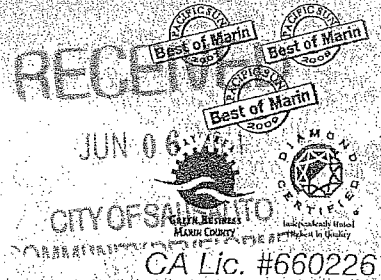
International Society of Arboriculture, Certified Arborist # 418, 1984 to present.
American Society of Consulting Arborists, Member, 2000 to present.
California Department of Pesticide Regulation, Pest Control Advisor PCA74846, 1989 to present
Independent Consulting Arborist Services, 2004-present.

TREEMASTERS

3175 Kerner Blvd Ste. A
San Rafael, CA 94901
(415) 455-9933 Main
(415) 455-9934 Fax



WWW.TREEMASTERS.COM
treemail@treemasters.com



November 6, 2010

Miguel Micheltoarena
255 Glen Dr
Sausalito, CA 94965

ARBORIST REPORT

I have inspected 4 *Pittosporum undulatum* located at 254 Glen Drive and have made the following report.

Pittosporum undulatum is an evergreen tree that is often used as an ornamental plant, due to its attractive fragrant flowers. It is a slender-branched shrub or tree, can grow to 60ft tall, with smooth, gray bark. It has a straight bole, regular whorls of branches, and a dense crown. Leaves alternate, shiny, and flowers almost white. It is a hardy tree that takes well to severe pruning. It is native to south-eastern Australia. This tree is invasive in Australia outside its native range.

The 4 *Pittosporum undulatum* are located in the front yard area of 254 Glen Drive, near street just behind the fence. The overall health of these trees is good. One is to the North side of the gate and other three to the south side. These trees are growing under the PG&E's high voltage power lines and have been pruned various times before to maintain clearance from the high voltage power lines. The constant pruning has unbalanced three of the four *Pittosporums*. These trees are higher and heavier on the East side; they lean and overhang over the home. The largest of the four (north side of gate) has a multi-spar at about 5 feet from soil line and has weak areas of attachment due to included bark. This along with the unbalanced heavier side has increased the potential for this tree to fail. Pruning these trees will help reduce the potential for tree failure.

"Providing great care and attention
to the ONE TREE we are working on at that moment."

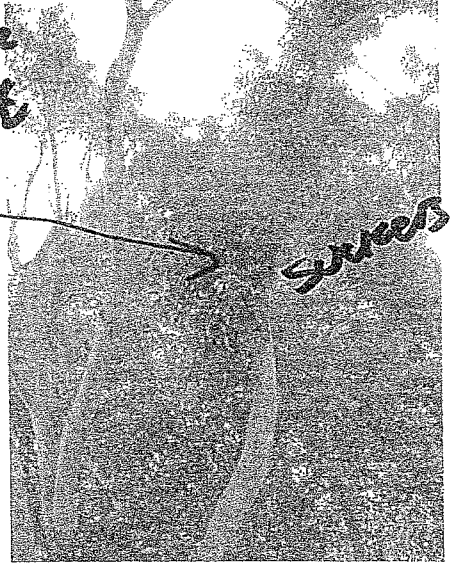
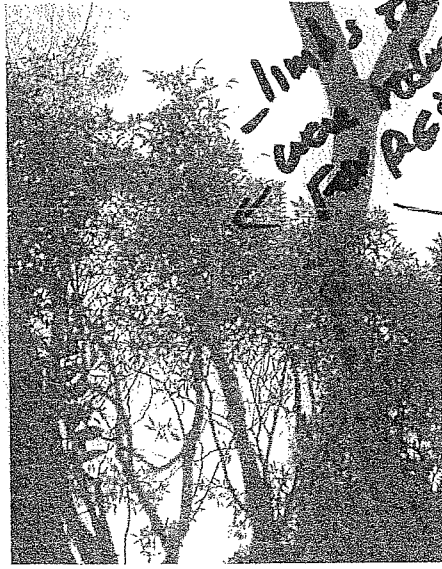
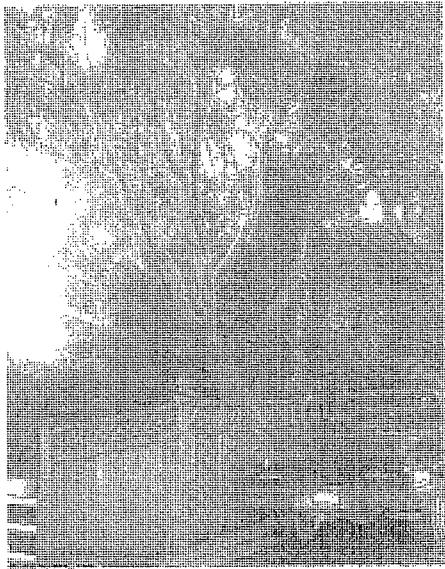
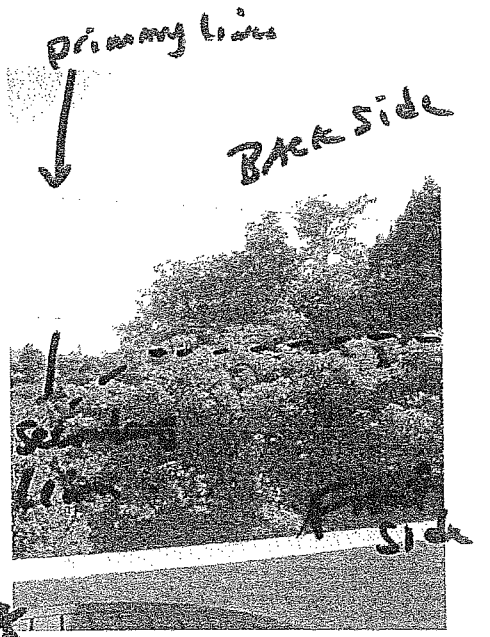


These Pittisporums are also obstructing the view from the property at 255 Glen Dive. In order to improve the view these trees will need to be reduced just below the height of the secondary power lines (second set of lines from the highest). Because these trees are hardy and take to heavy pruning there should not be a problem to reducing these trees. The trees will look bare for a few months because there is no inner canopy. The canopy under the power lines have been reduced and continue to grow and flourish on these trees. Reducing these trees should not be a problem nor have a negative impact on these trees but it will help balance the weight & canopy and reduce potential tree failure. The pruning will also allow for lower canopy to grow and create a better screen and a sound barrier. My recommendation for pruning these trees is in January - March.

If you have any questions or if I can be of service please free to contact our office at (415) 455-9933 or email treemail@treemasters.com



Uriel Barron
ISA Certified Arborist WE-1328A



CREW

+

/

EQ

L/S

1/4

1/2

3/4

FULL

W

11/1/10 - 11 AM-12 PM

Fully Insured

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CA Lic. #660226

Name: Miguel Micheltorena

Date: 10/29/2010

miguel.micheltorena@cifi.com

Company: 255 Glen Dr Sausalito CA 94965

E-mail:

Address:

Billing:

Phone: 415-971-3190 Cell 650-496-3286 Office 415-324-5816 Home

Map: 627-B3 X-Street: Bridgeway Ref. By: Google

Description of Job: TREEMASTERS will perform the following work itemized below and furnish the following labor, materials & equipment to complete that work:

Job Items Set-up, breakdown and dump fee: \$120

1) Reduce just below secondary lines (lines below highest set of lines) and shape

Pittosporum *Pittosporum undulatum* across street for improved view 760

Note: Trees not listed on this contract were not inspected or evaluated by TREEMASTERS

Haul Brush & Debris Haul Wood Wood left cut 16" Rounds piled at base of tree Leave Stump Mulch.

Uziel Barron

Estimator: ISA Certified Arborist WE-1328A Date: 11/6/10

Job Cost Total: \$880.00

CLIENT HAS THE RIGHT TO REQUIRE CONTRACTOR TO PROVIDE A PERFORMANCE AND PAYMENT BOND.

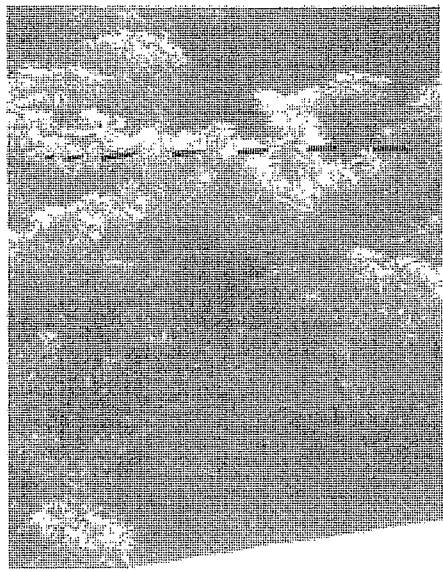
Authorization To Proceed: The Client hereby authorizes Treemasters to perform the job as described above. Unless otherwise agreed upon in writing by Treemasters, Client agrees to make total payment of the estimated costs and all authorized additional costs upon completion of the Job. By signing below, Client acknowledges that Client has read and understands all of the provisions on the front and back of this Agreement and agrees to abide by all terms and conditions. Client also acknowledged receipt of the attached Notice of Owner. Client's Signature _____ Date: _____

Time For Completion: Treemasters' work crews and equipment will arrive at the job site unannounced unless otherwise noted in this Agreement. Treemasters agrees to substantially commence work within 30 days after Client has executed this agreement and shall diligently pursue the Job to completion within 14 working days, subject to permissible delays. Work will begin approximately on N/A, and all work will be completed approximately on N/A. Substantial commencement of the work shall be deemed to be the date when Treemasters first supplies workers to the job who actually start Job operations. Treemasters' failure to commence work substantially within 20 days after the approximate date specified is a violation of the Contractors' State License Law.

Deposit. Client agrees to make the following deposit of \$ 0. (Pursuant to California law, deposit cannot exceed \$1,000 or 10% of contract price, whichever is less). Client shall pay said deposit with signed contract, or by: N/A

"Providing great care and attention to the ONE TREE we are working on at that moment."







BARTLETT TREE EXPERTS

400 SMITH RANCH ROAD, SAN RAFAEL, CA 94903 • (415) 472-4300 • FAX (415) 472-8650

November 4, 2010

City of Sausalito
Attn: Kent Basso
420 Litho St
Sausalito, CA 94965

RE: Monterey Pine (*Pinus radiata*) located on the corner of Miller Ave and Spencer Ave

On Monday, November 1, 2010, I inspected the Monterey Pine (*Pinus radiata*) located at the corner of Miller Ave and Spencer Ave. The purpose of this inspection was to determine the current health condition of the tree and its safety.

The tree has a full canopy of needles with significant candle dieback and some dead scaffold limbs, as a result of infection caused by the pathogen *Fusarium moniliforme*, disease known as "pine pitch canker". On the lower trunk, there is some evidence of old turpentine beetle attacks. There is ivy growing at the base of the tree and on the lower trunk that should be removed to allow for a better inspection of the root collar.

Based on my visual inspection of the tree and considering its species, health condition and location on the landscape, I recommend pruning the tree to reduce the risk of branch failure and to eliminate as many candles infected with *Fusarium moniliforme* as possible. The crown should be cleaned removing dead, diseased and broken branches that are ½ inch and larger in diameter. Also, the crown should be thinned not to exceed the removal of 15% of live branches to reduce weight on branch ends to reduce the risk of branch failure. These recommendations may help to improve the tree's health condition and may help to reduce potential risks. However, if the main objective is to eliminate any potential hazards the tree represents, the removal of the tree is recommended.

If you have any questions or concerns about my assessment, please contact me directly.

Sincerely,

Juan Ochoa
ISA Board Certified Master Arborist WE-6480B
Bartlett Tree Experts
O: (415) 472-4300 x 18
F: (415) 472-8650
jochoa@bartlett.com

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THE F.A. BARTLETT TREE EXPERT COMPANY
SCIENTIFIC TREE CARE SINCE 1907