

Erin Santiago

Arborist FL-5705A

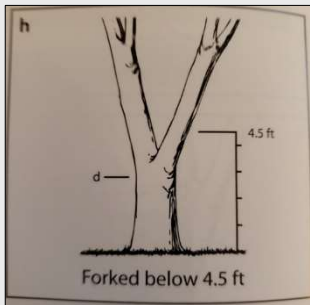
LAIF Inspector #2018-0214

Project Management Professional

The Santiago Group LLC

thesantiagogroupllc@gmail.com

(954) 947-1087



September 12, 2020

ISA Certified Arborist Report

The following is an arborist report for the Ahern project located at 205 NW 12 Avenue in Pompano Beach, Florida. The purpose of this report is to inventory and evaluate the condition of the trees.

This report is not a risk assessment on a Level 1, 2 or 3 as described by the Levels & Scope of Tree Risk Assessment from ANSI A300 Part 9: Tree, Shrub, & Other Woody Plant Management – Standard Practices. The Santiago Group LLC cannot be held liable for damage to the tree or damage caused by the tree.

Methods

An on-site visual inspection at ground level was made on September 12, 2020 to observe the trees. The size of each tree was measured as diameter at breast height (DBH), breast height being 4.5 feet above ground utilizing diameter measure tape. For the purposes of this report, this appraisal allows the diameter of the trunk to be measured just beneath the lowest emerging scaffold. Please refer to Figure 4.3h, Chapter 4, page 38 of the 10th Edition Guide for Plant Appraisers. Canopy diameter was determined utilizing a distance measuring wheel where possible. Tree height was estimated in feet. Refer to the TD Plan for tree locations and proposed actions.

The Functional Replacement Method Trunk Formula Technique (FRM) was utilized. The palm on site were not depreciated and should be considered cost of cure. The appraisal methodology is derived from the Guide for Plant Appraisal 10th Edition. An example of the approach to determine condition can be found in the Guide on Table 4.1. The condition rating was estimated by considering various attributes including the health of the small branches, twigs, and foliage and/or buds, and both the health and structure of the roots, trunk, and scaffold branches. Condition was also derived from an approach described on page 50 where the individual lowest rating was chosen to establish the overall rating.

Appendixes

See Appendix A for Tree Inventory, Appendix B for Tree Appraisals, and Appendix C for Tree Photos.

Respectfully submitted,

Erin Santiago

ISA Certified Arborist FL-5705A | LAIF Inspector #2018-0214 | Project Management Professional

DRC

PZ20-12000038

11/4/2020

Appendix A: Tree Inventory

| Tree # | Common Name | Botanical Name | DBH (inches) | Height (feet) | Canopy Diameter (feet) | Condition Factor/ Rating | Notes |
|--------|---------------|--------------------------------|--------------|---------------|------------------------|--------------------------|---|
| 1 | Queen Palm | <i>Syagrus romanzoffiana</i> | 10 | 13CT 170A | 3 | 30% | Sparse crown. Abnormal taper. |
| 2 | Queen Palm | <i>Syagrus romanzoffiana</i> | 12 | 13CT 180A | 7 | 40% | Sparse crown. |
| 3 | Slash Pine | <i>Pinus elliottii</i> | 10 | 24 | 23 | 60% | Topped off. |
| 4 | Red Maple | <i>Acer rubrum</i> | 11 | 19 | 16 | 60% | Codominant stems with some small tip dieback. |
| 5 | Mahogany | <i>Swietenia mahagoni</i> | 24 | 30 | 30 | 50% | Codominant stems with weak connection. Severely limited root zone resulting in crowding with surface root damage. Significant trunk wound healing. Monitor. |
| 6 | missing | | | | | | |
| 7 | Live Oak | <i>Quercus virginiana</i> | 10 | 18 | 18 | 60% | Mediocre root and scaffold structure. |
| 8 | Gumbo Limbo | <i>Bursera simaruba</i> | 11 | 17 | 18 | 40% | Root lifting. Codominant stems with weak connections. |
| 9 | Umbrella Tree | <i>Schefflera actinophylla</i> | 14 | 18 | 10 | 30% | Multistem. Invasive. Recommend removal. |
| 10 | Mahogany | <i>Swietenia mahagoni</i> | 14 | 25 | 20 | 50% | Codominance. Severely limited root zone. Roots lifting pavement. |
| 11 | Mahogany | <i>ornamental</i> | 14 | 25 | 25 | 50% | Codominance. Scaffold damage on two stems. Limited root zone with surface root damage. |
| 12 | Mahogany | <i>Swietenia mahagoni</i> | 14 | 25 | 15 | 45% | Loss of multiple scaffolds resulting in poor canopy balance and significant voids. Poor root structure. |
| 13 | Mahogany | <i>ornamental</i> | 14 | 25 | 30 | 50% | Codominant stems. Poor root structure. Roots lifting pavement. |
| 14 | Mahogany | <i>Swietenia mahagoni</i> | 26 | 30 | 30 | 50% | Poor root structure. Multistem codominance with weak connections and bark inclusion. |
| 15 | Red Maple | <i>Acer rubrum</i> | 8 | 14 | 10 | 25% | Tip dieback. Cavity and decay at failed scaffold. Recommend removal. |
| 16 | Mahogany | <i>Swietenia mahagoni</i> | 30 | 30 | 30 | 50% | Severe codominance with weak connections. Poor root structure with surface root damage. Sap seepage at multiple wound sites. Monitor. |
| 17 | missing | | | | | | |
| 18 | missing | | | | | | |
| 19 | Slash Pine | <i>Pinus elliottii</i> | 4 | 15 | 6 | 50% | Poor root structure. High center of gravity. |
| 20 | Sabal Palm | <i>Sabal palmetto</i> | 12 | 12CT 180A | 8 | 75% | Good condition. |
| 21 | Sabal Palm | <i>Sabal palmetto</i> | 12 | 12CT 180A | 8 | 60% | Abnormal trunk taper. |
| 22 | Sabal Palm | <i>Sabal palmetto</i> | 12 | 16CT 230A | 10 | 80% | Good condition. |
| 23 | Red Maple | <i>Acer rubrum</i> | 7 | 16 | 10 | 30% | Significant dieback. Trunk wound. Poor structure. |
| 24 | Toog Tree | <i>Bischofia javanica</i> | 15 | 25 | 20 | 60% | Invasive. Recommend removal. |
| 25 | missing | | | | | | |
| 26 | Toog Tree | <i>Bischofia javanica</i> | 15 | 25 | 20 | 40% | Invasive. Recommend removal. |
| 27 | Toog Tree | <i>Bischofia javanica</i> | 9 | 10 | 7 | 20% | Invasive. Recommend removal. |
| 28 | Queen Palm | <i>Syagrus romanzoffiana</i> | 12 | 23CT 300A | 11 | 75% | Good condition. |
| 29 | Queen Palm | <i>Syagrus romanzoffiana</i> | 10 | 22CT 280A | 9 | 65% | Moderate condition. |

DRC

PZ20-12000038
11/4/2020

Appendix B: Tree Appraisals

Note:

Methodology for trees = Functional Replacement Method Trunk Formula Technique (FRM)

Methodology for palms = Cost of Cure

| Tree # | Common Name | 1. DBH (in.) or Palm CT | 2. Appr Trunk Area (in) | 3. Condition | 4. Functional Limitations | 5. External Limitations | 6. Diameter or Height? | Repl trunk diam (in) | 7. Repl trunk area (in) | 8. Repl cost | 9. Unit Tree Cost | 10. Basic Func Rep Cost | 11. Dep Func Rep Cost | Additional Costs | | 13. Total Replacement Cost | 14. Rounded |
|--------|---------------|-------------------------|-------------------------|--------------|---------------------------|-------------------------|------------------------|----------------------|-------------------------|--------------|-------------------|-------------------------|-----------------------|-------------------------------------|--------------------|----------------------------|-------------|
| | | | | | | | | | | | | | | cleanup install aftercare hardscape | 12. Total add cost | | |
| 1 | Queen Palm | 13CT 17OA | n/a | 30% | 0.7 | 1 | CT | | | 175 | | | | \$ 175.00 | \$ 175.00 | \$ 350.00 | \$ 350 |
| 2 | Queen Palm | 13CT 18OA | n/a | 40% | 0.7 | 1 | CT | | | 175 | | | | \$ 175.00 | \$ 175.00 | \$ 350.00 | \$ 350 |
| 3 | Slash Pine | 10 | 79 | 60% | 0.8 | 1 | Diameter | 3 | 7 | 250 | \$35.37 | \$ 2,777.78 | \$1,333.33 | \$ 250.00 | \$250.00 | \$ 1,583.33 | \$ 1,580 |
| 4 | Red Maple | 11 | 95 | 60% | 0.3 | 1 | Diameter | 3 | 7 | 375 | \$53.05 | \$ 5,041.67 | \$ 907.50 | \$ 375.00 | \$375.00 | \$ 1,282.50 | \$ 1,280 |
| 5 | Mahogany | 24 | 452 | 50% | 0.3 | 1 | Diameter | 4 | 13 | 484 | \$38.49 | \$17,412.00 | \$2,611.80 | \$ 483.67 | \$483.67 | \$ 3,095.47 | \$ 3,100 |
| 6 | missing | | | | | | | | | | | | | | | | |
| 7 | Live Oak | 10 | 79 | 60% | 0.6 | 1 | Diameter | 3 | 7 | 475 | \$67.20 | \$ 5,277.78 | \$1,900.00 | \$ 475.00 | \$475.00 | \$ 2,375.00 | \$ 2,380 |
| 8 | Gumbo Limbo | 11 | 95 | 40% | 0.7 | 1 | Diameter | 3 | 7 | 342 | \$48.34 | \$ 4,593.52 | \$1,286.19 | \$ 341.67 | \$341.67 | \$ 1,627.85 | \$ 1,630 |
| 9 | Umbrella Tree | 14 | 154 | 30% | 0 | 1 | Diameter | | | | | | | | | | |
| 10 | Mahogany | 14 | 154 | 50% | 0.3 | 1 | Diameter | 4 | 13 | 484 | \$38.49 | \$ 5,924.92 | \$ 888.74 | \$ 483.67 | \$483.67 | \$ 1,372.40 | \$ 1,380 |
| 11 | Mahogany | 14 | 154 | 50% | 0.3 | 1 | Diameter | 4 | 13 | 484 | \$38.49 | \$ 5,924.92 | \$ 888.74 | \$ 483.67 | \$483.67 | \$ 1,372.40 | \$ 1,380 |
| 12 | Mahogany | 14 | 154 | 45% | 0.3 | 1 | Diameter | 4 | 13 | 484 | \$38.49 | \$ 5,924.92 | \$ 799.86 | \$ 483.67 | \$483.67 | \$ 1,283.53 | \$ 1,280 |
| 13 | Mahogany | 14 | 154 | 50% | 0.3 | 1 | Diameter | 4 | 13 | 484 | \$38.49 | \$ 5,924.92 | \$ 888.74 | \$ 483.67 | \$483.67 | \$ 1,372.40 | \$ 1,380 |
| 14 | Mahogany | 26 | 531 | 50% | 0.3 | 1 | Diameter | 4 | 13 | 484 | \$38.49 | \$20,434.92 | \$3,065.24 | \$ 483.67 | \$483.67 | \$ 3,548.90 | \$ 3,550 |
| 15 | Red Maple | 8 | 50 | 25% | 0.3 | 1 | Diameter | 3 | 7 | 375 | \$53.05 | \$ 2,666.67 | \$ 200.00 | \$ 375.00 | \$375.00 | \$ 575.00 | \$ 580 |
| 16 | Mahogany | 30 | 707 | 50% | 0.3 | 1 | Diameter | 4 | 13 | 484 | \$38.49 | \$27,206.25 | \$4,080.94 | \$ 483.67 | \$483.67 | \$ 4,564.60 | \$ 4,560 |
| 17 | missing | | | | | | | | | | | | | | | | |
| 18 | missing | | | | | | | | | | | | | | | | |
| 19 | Slash Pine | 4 | 13 | 50% | 0.9 | 1 | Diameter | 3 | 7 | 250 | \$35.37 | \$ 444.44 | \$ 200.00 | \$ 250.00 | \$250.00 | \$ 450.00 | \$ 450 |
| 20 | Sabal Palm | 12CT 18OA | n/a | 75% | 1 | 1 | CT | | | 138 | | | | \$ 138.33 | \$138.33 | \$ 276.67 | \$ 280 |
| 21 | Sabal Palm | 12CT 18OA | n/a | 60% | 1 | 1 | CT | | | 138 | | | | \$ 138.33 | \$138.33 | \$ 276.67 | \$ 280 |
| 22 | Sabal Palm | 16CT 23OA | n/a | 80% | 1 | 1 | CT | | | 138 | | | | \$ 138.33 | \$138.33 | \$ 276.67 | \$ 280 |
| 23 | Red Maple | 7 | 38 | 30% | 0.3 | 1 | Diameter | 3 | 7 | 375 | \$53.05 | \$ 2,041.67 | \$ 183.75 | \$ 375.00 | \$375.00 | \$ 558.75 | \$ 560 |
| 24 | Toog Tree | 15 | 177 | 60% | 0 | 1 | Diameter | | | | | | | | | | |
| 25 | missing | | | | | | | | | | | | | | | | |
| 26 | Toog Tree | 15 | 177 | 40% | 0 | 1 | Diameter | | | | | | | | | | |
| 27 | Toog Tree | 9 | 64 | 20% | 0 | 1 | Diameter | 7 | 38 | 0 | | | | | | | |
| 28 | Queen Palm | 23CT 30OA | n/a | 75% | 0.5 | 1 | CT | | | 175 | | | | \$ 175.00 | \$ 175.00 | \$ 350.00 | \$ 350 |
| 29 | Queen Palm | 22CT 28OA | n/a | 65% | 0.5 | 1 | CT | | | 175 | | | | \$ 175.00 | \$ 175.00 | \$ 350.00 | \$ 350 |

DRC

PZ20-12000038

11/4/2020

Appendix C: Tree Photos



DRC

PZ20-12000038
11/4/2020

Appendix C: Tree Photos



DRC

PZ20-12000038

11/4/2020

Appendix C: Tree Photos



DRC

PZ20-12000038

11/4/2020

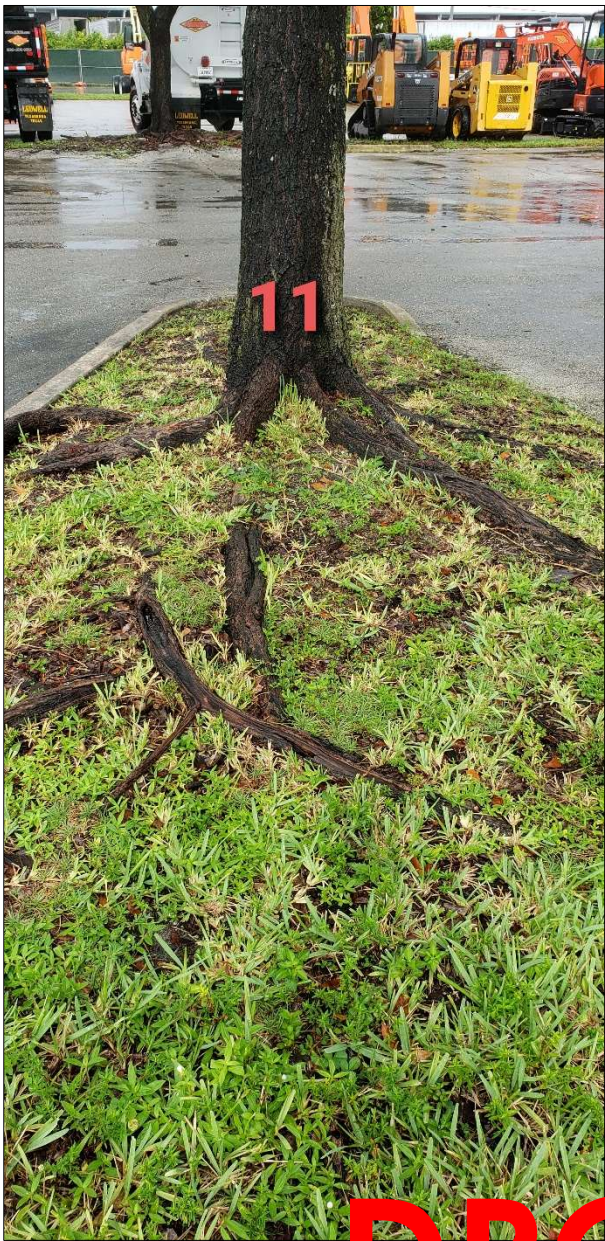
Appendix C: Tree Photos



DRC

PZ20-12000038
11/4/2020

Appendix C: Tree Photos



DRC

PZ20-12000038

11/4/2020

Appendix C: Tree Photos



Appendix C: Tree Photos

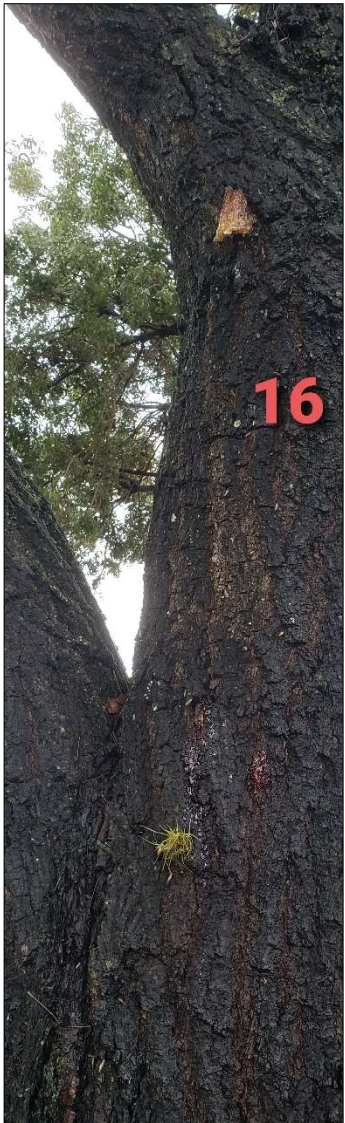


DRC

PZ20-12000038

11/4/2020

Appendix C: Tree Photos



Appendix C: Tree Photos



DRC

PZ20-12000038

11/4/2020

Appendix C: Tree Photos



DRC

PZ20-12000038
11/4/2020

Appendix C: Tree Photos

