

Erin Santiago

Arborist FL-5705A

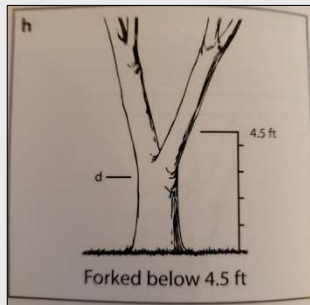
LIAF Inspector #2018-0214

Project Management Professional

The Santiago Group LLC

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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 palms 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 | LIAF Inspector #2018-0214 | Project Management Professional

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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 elliotii</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 elliotii</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 300	1	75%	Good condition.
29	Queen Palm	<i>Syagrus romanzoffiana</i>	10	22CT 280		65%	Moderate condition.

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12/16/2020

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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

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Appendix C: Tree Photos



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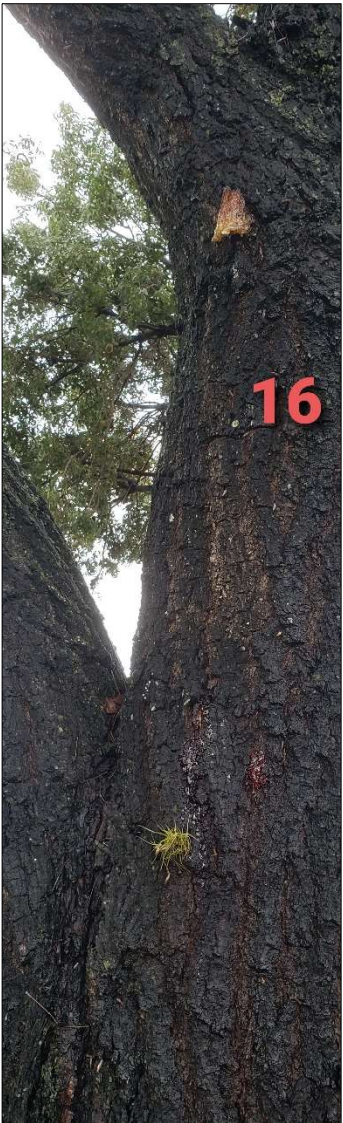
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