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November 9, 2017

Mr. Andres Perez, P.E.
Engineering Department Head
Coastal Systems International, Inc.
464 South Dixie Highway
Coral Gables, FL 33146

RE: Maurice Gibb Park
Miami Beach, Florida

Dear Andres:

Yesterday I visited the above-referenced site and evaluated the trees shown on the survey provided by the City, with numbering of the trees provided by Landscape Architect, Ken Gardner.

I located each tree shown on the survey or if they were no longer present, I noted that they are "Non-Existent". The public parking lot and the adjacent right-of-way on Purdy Avenue have recently been upgraded and the survey provided does not reflect current conditions. That area needs to be re-surveyed.

I identified each tree by common and scientific name, measured its trunk diameter at breast height (DBH = 4.5 feet above grade), overall height, and crown spread. I evaluated each tree's general condition (good, fair, poor), and made any relevant comments.

It is assumed that all trees in the park will need to be removed for site improvements, therefore, I evaluated each tree's potential for successful relocation. There are a few specimen trees for which I recommend "retain" if at all possible.

I have attached a data sheet containing all of the data outlined above.

Thank you for calling on me and please let me know if I can be of any additional assistance.

Sincerely,

Lisa H. Hammer, RCA
Horticultural Consultant

No.	Common Name	Scientific Name	Diameter (in)	Height (ft)	Spread (ft)	Condition	Relocate (Yes/No)	Comments
1	Cabbage Palm	<i>Sabal palmetto</i>	10	25	10	Good	Yes	
2	Cabbage Palm	<i>Sabal palmetto</i>	9	25	10	Fair-Good	Yes	some trunk damage
3	Cabbage Palm	<i>Sabal palmetto</i>	8.3	22	6	Fair-Poor	No	small crown; trunk damage
4	Non-Existent							
5	Cabbage Palm	<i>Sabal palmetto</i>	7.6	25	10	Good	Yes	
6	Non-Existent							
7	Green Buttonwood	<i>Conocarpus erectus</i>	3	12	8	Good	Yes	new planting
8	Non-Existent							
9	Green Buttonwood	<i>Conocarpus erectus</i>	3	10	8	Good	Yes	new planting
10	Medjool Date Palm	<i>Phoenix dactylifera</i> 'Medjool'	13	22	12	Fair	Yes	little crown stunting; new planting
11	Coconut Palm	<i>Cocos nucifera</i>	8.8	25	14	Fair-Good	Yes	
12	Coconut Palm	<i>Cocos nucifera</i>	12.3	35	16	Good	Yes	
13	Coconut Palm	<i>Cocos nucifera</i>	9.6	25	14	Good	Yes	
14	Coconut Palm	<i>Cocos nucifera</i>	12	35	16	Good	Yes	
15	Coconut Palm	<i>Cocos nucifera</i>	8	22	16	Fair-Good	Yes	
16	Coconut Palm	<i>Cocos nucifera</i>	9.6	25	14	Good	Yes	
17	Green Buttonwood	<i>Conocarpus erectus</i>	5	18	10	Good	Yes	new planting
17A	Dwarf White Trumpet	<i>Tabebuia bahamensis</i>	1.5	12	8	Good	Yes	new planting
18	Green Buttonwood	<i>Conocarpus erectus</i>	5.5	16	12	Good	Yes	new planting
19	Green Buttonwood	<i>Conocarpus erectus</i>	4.5	10	12	Poor	No	codominant leader split out
20	Green Buttonwood	<i>Conocarpus erectus</i>	4.7	22	12	Poor	No	sig. stress - dieback, interior sprouting. Poss. Irrigation break/wash-out
21	Green Buttonwood	<i>Conocarpus erectus</i>	3.5	16	12	Good	Yes	new planting
22	Non-Existent							
23	Green Buttonwood	<i>Conocarpus erectus</i>	6" stump	0	0	Dead	No	
24	Green Buttonwood	<i>Conocarpus erectus</i>	6" stump	0	0	Dead	No	
24A	Dwarf White Trumpet	<i>Tabebuia bahamensis</i>	1.5	14	6	Good	Yes	new planting
25	Green Buttonwood	<i>Conocarpus erectus</i>	3.5	8	8	Fair-Poor	No	top of leader broken off
26	Green Buttonwood	<i>Conocarpus erectus</i>	3.5	12	14	Fair-Poor	No	top of leader broken off
26A	Green Buttonwood	<i>Conocarpus erectus</i>	3.5	14	14	Good	Yes	
26B	Green Buttonwood	<i>Conocarpus erectus</i>	4	16	14	Good	Yes	
26C	Green Buttonwood	<i>Conocarpus erectus</i>	4	16	14	Good	Yes	
26D	Green Buttonwood	<i>Conocarpus erectus</i>	4.5	16	14	Good	Yes	
26E	Green Buttonwood	<i>Conocarpus erectus</i>	4	14	14	Good	Yes	
27	Coconut Palm	<i>Cocos nucifera</i>	12.7	35	16	Good	Yes	
28	Coconut Palm	<i>Cocos nucifera</i>	11.8	35	14	Good	Yes	
29	Coconut Palm	<i>Cocos nucifera</i>	10.2	35	16	Good	Yes	
30	Coconut Palm	<i>Cocos nucifera</i>	12	40	16	Good	Yes	
31	Coconut Palm	<i>Cocos nucifera</i>	11	38	16	Good	Yes	
32	Cabbage Palm	<i>Sabal palmetto</i>	13	25	8	Good	Yes	
33	Cabbage Palm	<i>Sabal palmetto</i>	14	22	10	Good	Yes	
34	Cabbage Palm	<i>Sabal palmetto</i>	10	25	10	Fair-Good	Yes	bent head
35	Cabbage Palm	<i>Sabal palmetto</i>	13.7	23	10	Good	Yes	
36	Silver Buttonwood	<i>Conocarpus erectus-sericeus</i>	13.5 + 14	20	24	Fair-Poor	No	2 trees close together; sig. decay columns in both trunks
37	Royal Poinciana	<i>Delonix regia</i>	13.2	20	30	Fair	Yes/No	good structure but foliage appears unthrifty; poss remedially treat?
38	Non-Existent							
39	Coconut Palm	<i>Cocos nucifera</i>	10.6	30	14	Fair-Good	Yes	
40	Coconut Palm	<i>Cocos nucifera</i>	6.4	22	14	Fair-Good	Yes	
41	Coconut Palm	<i>Cocos nucifera</i>	12	30	14	Good	Yes	
42	Coconut Palm	<i>Cocos nucifera</i>	11.8	35	16	Good	Yes	
43	Coconut Palm	<i>Cocos nucifera</i>	12	30	16	Good	Yes	
44	West Indies Mahogany	<i>Swietenia mahagoni</i>	21	35	35	Good	Retain if possible	in good condition but quite large to relocate
45	Coconut Palm	<i>Cocos nucifera</i>	11.5	35	16	Good	Yes	

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Tree Survey/Evaluation
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46	Coconut Palm	<i>Cocos nucifera</i>	9.5	35	16	Good	Yes	
47	Coconut Palm	<i>Cocos nucifera</i>	10.5	35	16	Good	Yes	
48	West Indies Mahogany	<i>Swietenia mahagoni</i>	20.5	28	30	Poor	No	sig. hurricane damage; main leader broken above old decay cavity
49	West Indies Mahogany	<i>Swietenia mahagoni</i>	stump			Dead	No	
50	Coconut Palm	<i>Cocos nucifera</i>	12.5	35	16	Good	Yes	
51	Coconut Palm	<i>Cocos nucifera</i>	9.4	30	16	Good	Yes	
52	Non-Existent							
53	Bridal Bouquet	<i>Plumeria pudica</i>	5	12	6	Fair	No	shrub, not a tree
54	Bridal Bouquet	<i>Plumeria pudica</i>	multi	12	8	Fair	No	shrub, not a tree
55	Coconut Palm	<i>Cocos nucifera</i>	11.6	30	16	Good	Yes	
56	Coconut Palm	<i>Cocos nucifera</i>	11.3	32	16	Good	Yes	
57	Coconut Palm	<i>Cocos nucifera</i>	9	28	16	Good	Yes	
58	West Indies Mahogany	<i>Swietenia mahagoni</i>	8.8	18	22	Fair	Yes	crown flat under shade of #30
59	West Indies Mahogany	<i>Swietenia mahagoni</i>	26.5	30	40	Fair-Good	Retain if possible	old codominant stems with included bark; very large, wide-spreading for relocation
60	Cabbage Palm	<i>Sabal palmetto</i>	8.3	20	10	Good	Yes	
61	Cabbage Palm	<i>Sabal palmetto</i>	8.8	20	10	Fair-Good	Yes	trunk irregularities
62	Cabbage Palm	<i>Sabal palmetto</i>	8.5	28	10	Fair-Poor	No	trunk damage
63	Cabbage Palm	<i>Sabal palmetto</i>	8.5	25	10	Fair	Yes	trunk irregularities
64	Live Oak	<i>Quercus virginiana</i>	7.3	18	12	Good	Yes	
65	Live Oak	<i>Quercus virginiana</i>	5.2	20	14	Good	Yes	
66	Non-Existent							
67	Silver Buttonwood	<i>Conocarpus erectus-sericeus</i>	10.5 + 7	24	20	Fair-Poor	No	low codominant leaders; decay columns in both leaders; sparse, dieback
68	Live Oak	<i>Quercus virginiana</i>	12.8	22	28	Fair	Yes	circling roots, root suckers; flat & leaning to N due to shade; 68, 69, 70 a cluster
69	Live Oak	<i>Quercus virginiana</i>	17	22	34	Good	Yes	leaning to NE due to shade; 68, 69, 70 a cluster
70	Live Oak	<i>Quercus virginiana</i>	18.3	25	38	Good	Yes	leaning to ESE due to shade; 68, 69, 70 a cluster
71	Coconut Palm	<i>Cocos nucifera</i>	12.8	30	14	Good	Yes	
72	Coconut Palm	<i>Cocos nucifera</i>	12	35	14	Good	Yes	
73	Royal Poinciana	<i>Delonix regia</i>	13	22	35	Poor	No	sig. decline, dieback, interior sprouting, prob. Due to hurricane or seawater
74	Coconut Palm	<i>Cocos nucifera</i>	11.3	28	16	Fair-Poor	No	sig. trunk damage
75	Green Buttonwood	<i>Conocarpus erectus</i>	16.8	28	30	Fair-Poor	No	storm damage, stress; dead & decayed limbs
76	Green Buttonwood	<i>Conocarpus erectus</i>	16.1	25	30	Fair	Yes/No	storm damage will be OK, but not very attractive
77	Silver Buttonwood	<i>Conocarpus erectus-sericeus</i>	12.5+7.2+8.5	24	25	Fair-Poor	No	sig. decay cavitites all 3 leaders; broken branches due to storm
78	Coconut Palm	<i>Cocos nucifera</i>	10	25	16	Fair	No	decay cavity in trunk
79	Coconut Palm	<i>Cocos nucifera</i>	9.3	28	16	Good	Yes	
80	Coconut Palm	<i>Cocos nucifera</i>	10	26	16	Good	Yes	
81	Seagrape	<i>Coccoloba uvifera</i>	4+3.3+3.5+3	14	14	Fair	No	all stems are suckers off old stump
82	Seaside Mahoe	<i>Thespesia populnea</i>	6.5+6.5	16	20	Fair	No	prohibited species
83	Seaside Mahoe	<i>Thespesia populnea</i>	6+4	16	15	Fair	No	prohibited species
84	Seaside Mahoe	<i>Thespesia populnea</i>	stump	0	0	Poor	No	prohibited species
85	Non-Existent							
86	Seagrape	<i>Coccoloba uvifera</i>	15 @ 4-8	20	40	Fair	Yes/No	large tree toppled over bank; could relocate if done soon w/o damaging bank
87	Strangler Fig	<i>Ficus aurea</i>	6 @ 6-9	20	30	Good	Yes/No	possibly retain. Relocate if possible to extract from bank.
88	West Indies Mahogany	<i>Swietenia mahagoni</i>	13.8	25	30	Good	Yes	retain if possible
89	Live Oak	<i>Quercus virginiana</i>	14.5	25	30	Fair-Good	Yes	circling roots, root suckers; slightly sparse, little dieback. Remedially treat.
90	Pink Trumpet	<i>Tabebuia heterophylla</i>	5.5	20	8	Fair	Yes	narrow crown; 1 limb broken off
91	Coconut Palm	<i>Cocos nucifera</i>	12.2	28	16	Good	Yes	
92	Pink Trumpet	<i>Tabebuia heterophylla</i>	14	25	30	Fair	No	Broken, damaged leader due to hurricane
93	Cabbage Palm	<i>Sabal palmetto</i>	7.6	24	8	Fair	Yes/No	fair health, poor trunk
94	Cabbage Palm	<i>Sabal palmetto</i>	8	25	8	Fair	Yes/No	fair health, poor trunk
95	Cabbage Palm	<i>Sabal palmetto</i>	10	22	10	Fair	Yes/No	fair health, poor trunk
96	Cabbage Palm	<i>Sabal palmetto</i>	8	20	8	Poor	No	sig trunk irregularities & damage
97	Coconut Palm	<i>Cocos nucifera</i>	14.3	28	16	Good	Yes	
98	Coconut Palm	<i>Cocos nucifera</i>	10.8	28	16	Good	Yes	
99	Coconut Palm	<i>Cocos nucifera</i>	11	32	16	Good	Yes	
100	Coconut Palm	<i>Cocos nucifera</i>	15	30	16	Good	Yes	
101	Coconut Palm	<i>Cocos nucifera</i>	10.4	30	16	Good	Yes	
102	Coconut Palm	<i>Cocos nucifera</i>	10	30	16	Good	Yes	
103	Gumbo Limbo	<i>Bursera simaruba</i>	15.6	25	25	Fair-Good	Yes	

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104	Coconut Palm	<i>Cocos nucifera</i>	11	28	14	Good	Yes	
105	Coconut Palm	<i>Cocos nucifera</i>	11	32	16	Good	Yes	
106	Coconut Palm	<i>Cocos nucifera</i>	12	30	16	Good	Yes	
107	West Indies Mahogany	<i>Swietenia mahagoni</i>	14	30	24	Good	Yes	retain if possible
108	Non-Existent							
109	Non-Existent							
110	Non-Existent							
111	Non-Existent							
112	Cabbage Palm	Sabal palmetto	10	16	10	Fair	Yes	trunk irregularities
113	Cabbage Palm	Sabal palmetto	8.7	28	6	Poor	No	trunk damage and nutritional deficiencies
114	Non-Existent							
115	Non-Existent							
116	Royal Poinciana	Delonix regia	10	16	28	Good	Yes	wash-outs under roots, possibly seawater
117	Non-Existent							
118	Gumbo Limbo	Bursera simaruba	13	18	18	Good	Yes	
119	Silver Buttonwood	Conocarpus erectus-sericeus	3	14	5	Poor	No	
120	Seaside Mahoe	Thespesia populnea	4+5+6	18	18	Poor	No	prohibited species - uprooted leaning toward bay
121	Seaside Mahoe	Thespesia populnea	9 @ 6-8	18	20	Fair	No	prohibited species - partially uprooted w/#120
122	Cabbage Palm	Sabal palmetto	8	20	10	Fair-Poor	Yes/No	S-shaped trunk
123	Cabbage Palm	Sabal palmetto	7.4	25	10	Fair	Yes/No	thin
124	Weeping Fig	Ficus benamina	19 + 19 + 11.5	25	50	Poor	No	in decline - sparse, dieback - damage & decay
125	Coconut Palm	Cocos nucifera	10	28	16	Good	Yes	
126	Coconut Palm	Cocos nucifera	14.3	38	16	Good	Yes	
127	Coconut Palm	Cocos nucifera	13.3	28	16	Good	Yes	
128	Royal Poinciana	Delonix regia	15.4	18	35	Fair-Good	Yes/No	a little sparse
129	Coconut Palm	Cocos nucifera	12.4	38	16	Fair-Good	Yes	hole in upper trunk area
130	Coconut Palm	Cocos nucifera	12.4	38	16	Good	Yes	
131	Non-Existent							
132	Non-Existent							
133	Royal Palm	Roystonea regia	15.5	35	16	Fair-Poor	No	nutritional deficiencies & trunk cracks, prob from seawater
134	Royal Palm	Roystonea regia	15.3	33	16	Fair-Poor	No	nutritional deficiencies & trunk cracks, prob from seawater