

## MEMORANDUM FOR THE FILE

DATE: April 27, 2012  
RE: 1512 18<sup>th</sup> Terrace  
FROM: Paul Williams, Urban Forestry Manager, City of Key West

An application was received for the removal of six (6) Gumbo Limbo trees, four (4) Mahogany trees, three (3) Sea Grape trees, one (2) Strangler Fig trees, three (3) Coconut palms, one (1) Washington palm (Monocot over 8') and several unprotected trees that do not require a tree removal permit.

Tree Species: Gumbo Limbo (*Bursea simaruba*), Mahogany (*Swietenia mahagoni*), Sea Grape (*Coccoloba uvitera*), Strangler Fig (*Ficus aurea*), Coconut Palm (*Cocos nucitera*) and Washington palm (*Washingtonia robusta*)

A site inspection was done on April 26, 2012 and documented the following:

The property is vacant and over grown with trees, shrubs and grass. The applicant would like to remove the requested trees so demo of the house can take place and a new one constructed. After construction, the property will be landscaped with all required mitigation canopy replacement inches and native palms.

Recommendations:

If the Tree Commission approves this tree removal permit there will be a **total of ninety-one (91) canopy replacement caliper (dbh) inches and four (4) native palms** required to be planted on the property.

Also, staff would recommend that the applicant provide a landscape plan showing the proposed new landscape design and location of all replacement canopy trees and native palms.

The following are photos and mitigation information for each of the trees:

(A) Canopy trees # 1 & # 2 - Gumbo Limbos



Diameter: Tree # 1 – 22”dbh total (2- trunks) Tree # 2 – 11.7”dbh  
**Total – 33.7”dbh**

Location: **60%**

Species: **100%**

Condition: **60%**

Total Average Value = **73%** Value x Diameter = replacement caliper (dbh) inches

.73 x 33.7 = **25 replacement caliper (dbh) inches**

**(B) Canopy tree #3 - Mahogany**



Diameter: **5.5" dbh**

Location: **60%**

Species: **100%**

Condition: **60%**

Total Average Value = **73%** Value x Diameter = replacement caliper (dbh) inches

$.73 \times 5.5 = \underline{4}$  replacement caliper (dbh) inches

(C) Canopy tree # 4 – Strangler Fig



Diameter: **10”dbh**

Location: **40%**

Species: **100%**

Condition: **60%**

Total Average Value = **67%** Value x Diameter = replacement caliper (dbh) inches

$.67 \times 10 = \underline{7}$  replacement caliper (dbh) inches

**(D)** Canopy trees #5 & # 6 – Gumbo Limbos



Diameter: Tree # 5 – 3.5”dbh Tree # 6 – 6”dbh  
**Total – 9.5”dbh**

Location: **60%**

Species: **100%**

Condition: **40%**

Total Average Value = **67%** Value x Diameter = replacement caliper (dbh) inches

$.67 \times 9.5 = \underline{6}$  replacement caliper (dbh) inches

**(E) Canopy tree # 7 – Gumbo Limbo**



Diameter: **8.2”dbh**

Location: **60%**

Species: **100%**

Condition: **60%**

Total Average Value = 73% Value x Diameter = replacement caliper (dbh) inches

$.73 \times 8.2 = \underline{6}$  replacement caliper (dbh) inches

**(F) Canopy tree # 9 - Strangler Fig**



Diameter: **5.6" dbh**

Location: **60%**

Species: **100%**

Condition: **60%**

Total Average Value = 73% Value x Diameter = replacement caliper (dbh) inches

$.73 \times 5.6 = \underline{4}$  replacement caliper (dbh) inches

**(G) Canopy tree # 11 - Mahogany**



Diameter: **6.6" dbh**

Location: **60%**

Species: **100%**

Condition: **60%**

Total Average Value = **73%** Value x Diameter = replacement caliper (dbh) inches

$.73 \times 6.6 = \underline{5}$  replacement caliper (dbh) inches

**(H) Canopy tree # 12 – Gumbo Limbo**



Diameter: **6.8”dbh**

Location: **60%**

Species: **100%**

Condition: **40%**

Total Average Value = **67%** Value x Diameter = replacement caliper (dbh) inches

$.67 \times 6.8 = \underline{5}$  replacement caliper (dbh) inches

**(I) Canopy tree # 14 – Mahogany**



Diameter: **7.7”dbh**

Location: **60%**

Species: **100%**

Condition: **60%**

Total Average Value = 73% Value x Diameter = replacement caliper (dbh) inches

$.73 \times 7.7 = \underline{6}$  replacement caliper (dbh) inches

**(J) Canopy trees # 16, # 17 & # 18 – Sea Grapes**





Diameter: Tree # 16 – 6”dbh, Tree # 17 – 9”dbh (3- trunks) Tree # 18 – 6”dbh  
**Total – 21”dbh**

Location: **60%**

Species: **100%**

Condition: **60%**

Total Average Value = **73%** Value x Diameter = replacement caliper (dbh) inches

.73 x 21 = **15 replacement caliper (dbh) inches**

**(K) Canopy tree # 19 – Mahogany**



Diameter: **10.5”dbh**

Location: **60%**

Species: **100%**

Condition: **80%**

Total Average Value = 80% Value x Diameter = replacement caliper (dbh) inches

.80 x 10.5 = **8 replacement caliper (dbh) inches**

**(L) Palm tree # 1 – Washington Palm**



Diameter: **N/A - palm**

Location: **60%**

Species: **0%**

Condition: **80%**

Total Average Value = N/A - palm

**Replacement caliper (dbh) inches - N/A - this palm is on the unprotected tree list but is over eight (8) feet tall**

**Recommendations: Replace with one (1) native palm**

**(M) Palm tree # 3, # 4 & # 5 – Coconut Palms**



Diameter: N/A - palms

Location: 60%

Species: 100%

Condition: 60%

Total Average Value = N/A - palms

Replacement caliper (dbh) inches - N/A - these palms are on the Protected tree list

**Recommendations: Replace with three (3) native palms**

