



ALVEY TREE CONSULTING LLC

ALEXIS ALVEY -

ISA BOARD CERTIFIED MASTER ARBORIST®

#NY-5539B

Arborist Report

The Standard Hotel
40 Island Avenue
Miami Beach

1/24/2024



Arborist Report

1/24/2024

On January 19th 2024, I visited the Standard Hotel located at 40 Island Avenue at the request of Christopher Cawley Landscape Architecture. I evaluated the existing specimen trees within the project limits in anticipation of new construction. For each tree, I confirmed species, location, and size (Height, Spread, DBH); evaluated condition (Poor, Fair, Good); determined the Tree Protection Zone for trees to remain or be relocated; provided relevant comments about health and condition; and took photographs. Street trees are included.

For tree disposition, please see the landscape plans. Trees that are dead, are in poor condition, or are invasive are recommended for removal. For trees that are to remain, protective barriers shall be placed at the dripline or 10ft radius from the tree trunk, whichever is greater. Barriers shall be installed prior to the start of construction, and shall remain in place until development is completed and until the department authorizes their removal. Barriers shall be a minimum of 4ft high, and shall be constructed of continuous chain link fence with metal posts at 8ft spacing, or of 2x4 posts with three equally spaced 2x4 rails. Posts may be shifted to avoid roots. No materials shall be placed or disposed of within the TPZ. Natural grade shall be maintained within the TPZ. All ANSI A300 Standards shall be followed.

This report shall in no shape or form be construed as a tree risk assessment which is beyond the scope of work written in the contractual agreement. Please feel free to contact me should any questions arise. Thank-you for the opportunity to assist in this manner.



Alexis Alvey
ISA Board Certified Master Arborist® #NY-5539B

Alvey Tree Consulting LLC
516-728-1366
alveytree@gmail.com
alveytree.com

Property Location -

The Standard Hotel
40 Island Avenue
Miami Beach, FL 33139

Client -

Christopher Cawley Landscape Architecture, LLC
780 NE 69th Street, Suite 200
Miami, FL 33138
786.536.2961 / chris@christophercawley.com

Tree Location Diagram

NOT TO SCALE

Approximate Location of Additional Site or Street Tree



Tree Table

SPECIMEN TREES: The Standard Hotel - 40 Island Avenue, Miami Beach 33139

NUMBER	COMMON NAME	BOTANICAL NAME	SPECIMEN	DBH (IN)	HEIGHT (FT)	SPREAD (FT)	CONDITION	TPZ RADIUS (FT)	DISPOSITION	NOTES
3818	TRAVELERS PALM	Ravenala madagascariensis	YES	12"	20'	10'	GOOD	10	REMAIN	
3820	BISMARCK PALM	Bismarckia nobilis	YES	18"	30'	20'	GOOD	10	REMAIN	
3832	BISMARCK PALM	Bismarckia nobilis	YES	18"	30'	20'	FAIR	10	REMAIN	
3849	BRIDAL VEIL	Caesalpinia granadillo	YES	13"	20'	35'	GOOD	17.5	REMAIN	
3862	SILVER TRUMPET TREE	Tabebuia caraiba	YES	24"	25'	30'	GOOD	15	REMAIN	
3896	SCREW PINE	Pandanus utilis	YES	8", 8"	16'	10'	FAIR	10	REMAIN	
3900	WASHINGTON PALM	Washingtonia robusta	YES	14"	50'	12'	FAIR	10	REMAIN	
3900B	WASHINGTON PALM	Washingtonia robusta	YES	15"	50'	10'	FAIR	10	REMAIN	
3913	WASHINGTON PALM	Washingtonia robusta	YES	13"	50'	12'	FAIR	10	REMAIN	
3914	WASHINGTON PALM	Washingtonia robusta	YES	16"	50'	12'	FAIR	-	REMOVE	
3915	WASHINGTON PALM	Washingtonia robusta	YES	13"	50'	12'	FAIR	10	REMAIN	
3916	WASHINGTON PALM	Washingtonia robusta	YES	15"	50'	12'	FAIR	10	REMAIN	
3917	WASHINGTON PALM	Washingtonia robusta	YES	14"	50'	12'	FAIR	-	REMOVE	
3918	WASHINGTON PALM	Washingtonia robusta	YES	13"	50'	12'	FAIR	-	REMOVE	
3919	WASHINGTON PALM	Washingtonia robusta	YES	14"	50'	12'	FAIR	10	REMAIN	
3920	SEAGRAPE TREE	Coccoloba uvifera	YES	54"	35'	40'	FAIR	20	RELOCATE	relocation candidate
3922	WASHINGTON PALM	Washingtonia robusta	YES	13"	45'	12'	FAIR	-	REMOVE	
3923	WASHINGTON PALM	Washingtonia robusta	YES	16"	50'	12'	FAIR	10	REMAIN	
3924	WASHINGTON PALM	Washingtonia robusta	YES	13"	50'	12'	FAIR	-	REMOVE	
3925	WASHINGTON PALM	Washingtonia robusta	YES	14"	50'	12'	POOR	-	REMOVE	
3926	WASHINGTON PALM	Washingtonia robusta	YES	15"	50'	12'	FAIR	10	REMAIN	
3927	WASHINGTON PALM	Washingtonia robusta	YES	15"	50'	12'	FAIR	10	REMAIN	
3928	WASHINGTON PALM	Washingtonia robusta	YES	13"	50'	12'	POOR	-	REMOVE	
3929	WASHINGTON PALM	Washingtonia robusta	YES	13"	50'	12'	FAIR	10	REMAIN	
3930	SCREW PINE	Pandanus utilis	YES	(3) 8"	20'	25'	GOOD	12.5	REMAIN	
3943	TRAVELERS PALM	Ravenala madagascariensis	YES	(3) 12"	20'	15'	GOOD	10	REMAIN	
3945	EVERGLADES PALM	Acoelorrhaphe wrightii	YES	22"	18'	15'	GOOD	10	REMAIN	
3947	CABBAGE PALM	Sabal palmetto	YES	14"	23'	12'	GOOD	10	REMAIN	
3949	EVERGLADES PALM	Acoelorrhaphe wrightii	YES	26"	18'	15'	FAIR	10	REMAIN	
3952	DATE PALM	Phoenix dactylifera	YES	12"	20'	15'	FAIR	10	REMAIN	
3953	DATE PALM	Phoenix dactylifera	YES	12"	25'	15'	FAIR	10	REMAIN	
3954	DATE PALM	Phoenix dactylifera	YES	12"	18'	15'	FAIR	10	REMAIN	
3955	DATE PALM	Phoenix dactylifera	YES	12"	20'	15'	FAIR	10	REMAIN	
3960	CABBAGE PALM	Sabal palmetto	YES	12"	23'	10'	FAIR	10	REMAIN	
3965	EVERGLADES PALM	Acoelorrhaphe wrightii	YES	22"	18'	15'	GOOD	10	REMAIN	
3966	CABBAGE PALM	Sabal palmetto	YES	14"	23'	12'	FAIR	10	REMAIN	
3971	CABBAGE PALM	Sabal palmetto	YES	12"	23'	15'	FAIR	10	REMAIN	
3972	EVERGLADES PALM	Acoelorrhaphe wrightii	YES	32"	20'	20'	FAIR	10	REMAIN	
3990	DATE PALM, TRIPLE	Phoenix dactylifera	YES	36"	18'	30'	FAIR	-	REMOVE	
4001	AVOCADO TREE	Persea americana	YES	17"	30'	30'	FAIR	-	REMOVE	
4035	COCONUT PALM	Cocos nucifera	YES	13"	50'	20'	FAIR	-	REMOVE	street tree

Tree #3818

Common Name -
TRAVELERS PALM

Scientific Name -
Ravenala madagascariensis

DBH (in) - 12"

Height (ft) - 20'

Canopy Spread (ft) - 10'

Condition -
GOOD

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3818 is a Travelers Palm located on the north side of the central gardens. It is in good condition with healthy green fronds.

Tree #3820

Common Name -
BISMARCK PALM

Scientific Name -
Bismarckia nobilis

DBH (in) - 18"

Height (ft) - 30'

Canopy Spread (ft) - 20'

Condition -
GOOD

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3820 is a Bismarck Palm located on the south side of the pool area. It is in good condition.

Tree #3832

Common Name -
BISMARCK PALM

DBH (in) - 18"
Height (ft) - 30'

Condition -
FAIR

Scientific Name -
Bismarckia nobilis

Canopy Spread (ft) - 20'

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3832 is a Bismarck Palm located on the south side of the pool area. It is in fair condition with bleeding cankers on trunk

Tree #3849

Common Name -
BRIDAL VEIL

DBH (in) - 13"
Height (ft) - 20'

Condition -
GOOD

Scientific Name -
Caesalpinia granadillo

Canopy Spread (ft) - 35'

Disposition - REMAIN
17.5FT RADIUS TPZ



Tree #3849 is a Bridal Veil located on the east side of the central gardens. It is in good condition with a nice, spreading form and little deadwood.

Tree #3862

Common Name -
SILVER TRUMPET TREE

DBH (in) - 24"
Height (ft) - 25'

Condition -
GOOD

Scientific Name -
Tabebuia caraiba

Canopy Spread (ft) - 30'

Disposition - REMAIN
15FT RADIUS TPZ



Tree #3862 is a Silver Trumpet Tree located in the central gardens. It is in good condition with a nice form. Some small deadwood is present. Prune to remove deadwood and broken limbs.

Tree #3896

Common Name -
SCREW PINE

DBH (in) - 8", 8"
Height (ft) - 16'

Condition -
FAIR

Scientific Name -
Pandanus utilis

Canopy Spread (ft) - 10'

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3896 is a Screw Pine located on the west side of the central gardens. It is in fair condition and appears to have been hatracked years ago. There are injuries on a main limb. It is double-trunked.

Tree #3900

Common Name -
WASHINGTON PALM

DBH (in) - 14"
Height (ft) - 50'

Condition -
FAIR

Scientific Name -
Washingtonia robusta

Canopy Spread (ft) - 12'

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3900 is a Washingtonia Palm located on the south side of the central gardens. It is in fair condition. Prune to remove the lower dead fronds.

Tree #3900B

Common Name -
WASHINGTON PALM

DBH (in) - 15"
Height (ft) - 50'

Condition -
FAIR

Scientific Name -
Washingtonia robusta

Canopy Spread (ft) - 10'

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3900B is a Washingtonia Palm located on the south side of the central gardens. It is growing through the Ficus hedge. It is in fair condition. Prune to remove the lower dead fronds.

Tree #3913

Common Name -
WASHINGTON PALM

DBH (in) - 13"
Height (ft) - 50'

Condition -
FAIR

Scientific Name -
Washingtonia robusta

Canopy Spread (ft) - 12'

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3913 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition. Prune to remove the lower dead fronds.

Tree #3914

Common Name -
WASHINGTON PALM

DBH (in) - 16"
Height (ft) - 50'

Condition -
FAIR

Scientific Name -
Washingtonia robusta

Canopy Spread (ft) - 12'

Disposition - REMOVE



Tree #3914 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition with some lower dead fronds and a pencilling trunk.

Tree #3915

Common Name -
WASHINGTON PALM

Scientific Name -
Washingtonia robusta

DBH (in) - 13"

Height (ft) - 50'

Canopy Spread (ft) - 12'

Condition -
FAIR

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3915 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition. Prune to remove the lower dead fronds.

Tree #3916

Common Name -
WASHINGTON PALM

Scientific Name -
Washingtonia robusta

DBH (in) - 15"

Height (ft) - 50'

Canopy Spread (ft) - 12'

Condition -
FAIR

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3916 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition. Prune to remove the lower dead fronds.

Tree #3917

Common Name -
WASHINGTON PALM

DBH (in) - 14"
Height (ft) - 50'

Condition -
FAIR

Scientific Name -
Washingtonia robusta

Canopy Spread (ft) - 12'

Disposition - REMOVE



Tree #3917 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition with some lower dead fronds.

Tree #3918

Common Name -
WASHINGTON PALM

DBH (in) - 13"
Height (ft) - 50'

Condition -
FAIR

Scientific Name -
Washingtonia robusta

Canopy Spread (ft) - 12'

Disposition - REMOVE



Tree #3918 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition with some lower dead fronds.

Tree #3919

Common Name -
WASHINGTON PALM

DBH (in) - 14"
Height (ft) - 50'

Condition -
FAIR

Scientific Name -
Washingtonia robusta

Canopy Spread (ft) - 12'

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3919 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition. Prune to remove the lower dead fronds.

Tree #3920

Common Name -
SEAGRAPE TREE

DBH (in) - 54"
Height (ft) - 35'

Condition -
FAIR

Scientific Name -
Coccoloba uvifera

Canopy Spread (ft) - 40'

Disposition - RELOCATE
20FT RADIUS TPZ



Tree #3920 is a large Seagrape located along the central boardwalk area. It is triple-trunked and in fair condition. The canopy is dense and crown spread appears to have been reduced over the years. There is an old cavity on one of the trunks that has nearly closed over. There is some deadwood and crossing limbs. Staghorn ferns and other epiphytes are growing on the tree.

This tree is a fine candidate for relocation. Prune to remove deadwood and broken limbs.

Tree #3922

Common Name -
WASHINGTON PALM

DBH (in) - 13"
Height (ft) - 45'

Condition -
FAIR

Scientific Name -
Washingtonia robusta

Canopy Spread (ft) - 12'

Disposition - REMOVE



Tree #3922 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition with some lower dead fronds.

Tree #3923

Common Name -
WASHINGTON PALM

DBH (in) - 16"
Height (ft) - 50'

Condition -
FAIR

Scientific Name -
Washingtonia robusta

Canopy Spread (ft) - 12'

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3923 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition. Prune to remove the lower dead fronds.

Tree #3924

Common Name -
WASHINGTON PALM

Scientific Name -
Washingtonia robusta

DBH (in) - 13"

Height (ft) - 50'

Canopy Spread (ft) - 12'

Condition -
FAIR

Disposition - REMOVE



Tree #3924 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition with some lower dead fronds. Pseudobark is sloughing off trunk.

Tree #3925

Common Name -
WASHINGTON PALM

Scientific Name -
Washingtonia robusta

DBH (in) - 14"

Height (ft) - 50'

Canopy Spread (ft) - 12'

Condition -
POOR

Disposition - REMOVE



Tree #3925 is a Washingtonia Palm located along the central boardwalk area. It is in poor condition with some lower dead fronds. Trunk cracks are present (circled in red).

Tree #3926

Common Name -
WASHINGTON PALM

Scientific Name -
Washingtonia robusta

DBH (in) - 15"

Height (ft) - 50'

Canopy Spread (ft) - 12'

Condition -
FAIR

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3926 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition. Prune to remove the lower dead fronds.

Tree #3927

Common Name -
WASHINGTON PALM

Scientific Name -
Washingtonia robusta

DBH (in) - 15"

Height (ft) - 50'

Canopy Spread (ft) - 12'

Condition -
FAIR

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3927 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition. Prune to remove the lower dead fronds.

Tree #3928

Common Name -
WASHINGTON PALM

Scientific Name -
Washingtonia robusta

DBH (in) - 13"

Height (ft) - 50'

Canopy Spread (ft) - 12'

Condition -
POOR

Disposition - REMOVE



Tree #3928 is a Washingtonia Palm located along the central boardwalk area. It is in poor condition with some lower dead fronds. Trunk cracks are present (circled in red).

Tree #3929

Common Name -
WASHINGTON PALM

Scientific Name -
Washingtonia robusta

DBH (in) - 13"

Height (ft) - 50'

Canopy Spread (ft) - 12'

Condition -
FAIR

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3929 is a Washingtonia Palm located along the central boardwalk area. It is in fair condition. Prune to remove the lower dead fronds.

Tree #3930

Common Name -
SCREW PINE

DBH (in) - (3) 8"

Height (ft) - 20'

Condition -
GOOD

Scientific Name -
Pandanus utilis

Canopy Spread (ft) - 25'

Disposition - REMAIN
12.5FT RADIUS TPZ



Tree #3930 is a Screw Pine located along the central boardwalk area. It is triple-trunked and in good condition. It has been pruned into a tight, pyramidal shape.

Tree #3943

Common Name -
TRAVELERS PALM

DBH (in) - (3) 12"

Height (ft) - 20'

Condition -
GOOD

Scientific Name -
Ravenala madagascariensis

Canopy Spread (ft) - 15'

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3943 is a Travelers Palm located on the east side of the property. It is in good condition with some tattered fronds.

Tree #3945

Common Name -
EVERGLADES PALM

Scientific Name -
Acoelorrhaphe wrightii

DBH (in) - 22"

Height (ft) - 18'

Canopy Spread (ft) - 15'

Condition -
GOOD

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3945 is an Everglades Palm located on the east side of the property. It is multi-trunked and in good condition.

Tree #3947

Common Name -
CABBAGE PALM

Scientific Name -
Sabal palmetto

DBH (in) - 14"

Height (ft) - 23'

Canopy Spread (ft) - 12'

Condition -
GOOD

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3947 is a Cabbage Palm located on the east side of the property. It is in good condition.

Tree #3949

Common Name -
EVERGLADES PALM

DBH (in) - 26"

Height (ft) - 18'

Condition -
FAIR

Scientific Name -
Acoelorrhaphe wrightii

Canopy Spread (ft) - 15'

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3949 is an Everglades Palm located on the east side of the property. It is multi-trunked and in fair condition with some yellowing fronds.

Trees #3952 - 3955

Common Name -
DATE PALMS (4)

DBH (in) - 12" EACH

Height (ft) - 20'

Condition -
FAIR

Scientific Name -
Phoenix dactylifera

Canopy Spread (ft) - 15'

Disposition - REMAIN
10FT RADIUS TPZ



Trees #3952 - 3955 are four Date Palms located on the east side of the property. They are in fair condition with some lower yellowing and brown fronds. Prune to remove the lower dead fronds.

Tree #3960

Common Name -
CABBAGE PALM

Scientific Name -
Sabal palmetto

DBH (in) - 12"

Height (ft) - 23'

Canopy Spread (ft) - 10'

Condition -
FAIR

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3960 is a Cabbage Palm located on the east side of the property. It is in fair condition. Remove the vines that are growing into the canopy.

Tree #3965

Common Name -
EVERGLADES PALM

Scientific Name -
Acoelorrhaphe wrightii

DBH (in) - 22"

Height (ft) - 18'

Canopy Spread (ft) - 15'

Condition -
GOOD

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3965 is an Everglades Palm located on the east side of the property. It is multi-trunked and in good condition.

Tree #3966

Common Name -
CABBAGE PALM

Scientific Name -
Sabal palmetto

DBH (in) - 14"

Height (ft) - 23'

Canopy Spread (ft) - 12'

Condition -
FAIR

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3966 is a Cabbage Palm located on the east side of the property. It is in fair condition.

Tree #3971

Common Name -
CABBAGE PALM

Scientific Name -
Sabal palmetto

DBH (in) - 12"

Height (ft) - 23'

Canopy Spread (ft) - 15'

Condition -
FAIR

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3971 is a Cabbage Palm located on the east side of the property. It is in fair condition.

Tree #3972

Common Name -
EVERGLADES PALM

Scientific Name -
Acoelorrhaphe wrightii

DBH (in) - 32"

Height (ft) - 20'

Canopy Spread (ft) - 20'

Condition -
FAIR

Disposition - REMAIN
10FT RADIUS TPZ



Tree #3972 is an Everglades Palm located on the east side of the property. It is multi-trunked and in fair condition with some yellowing fronds.

Tree #3990

Common Name -
DATE PALM, TRIPLE

Scientific Name -
Phoenix dactylifera

DBH (in) - 36"

Height (ft) - 18'

Canopy Spread (ft) - 30'

Condition -
FAIR

Disposition - REMOVE



Tree #3990 is a triple-trunked Date Palm located on the east side of the property. It is in fair condition with some yellowing on the fronds.

Tree #4001

Common Name -
AVOCADO TREE

Scientific Name -
Persea americana

DBH (in) - 17"

Height (ft) - 30'

Canopy Spread (ft) - 30'

Condition -
FAIR

Disposition - REMOVE



Tree #4001 is an Avocado Tree located on the east side of the property. It is located on the other side of the existing fence and the canopy spreads into the neighboring property. The tree is in fair condition. There are small cavities with decay and the tree has low vigor. There is a burl on one of the two main trunks (circled in red).

Tree #4035

Common Name -
COCONUT PALM

DBH (in) - 13"
Height (ft) - 50'

Condition -
FAIR

Scientific Name -
Cocos nucifera

Canopy Spread (ft) - 20'

Disposition - REMOVE



Tree #4035 is a Coconut Palm street tree located along Island Avenue. It is in fair condition with climbing spike injuries to the trunk. Continue to remove the coconut fruits.

Notes - TPZ Calculations & Tree and Palm Relocation

Tree Protection Zone (TPZ) -

- For trees and palms that are to remain, protective barriers shall be placed at the dripline or 10ft radius from the trunk, whichever is greater.
- For trees and palms that are relocated, protective barriers shall be placed at the dripline or 1 - 2ft outside the rootball, whichever is greater.

Tree and Palm Relocation Notes -

1. All phases of transplanting trees and palms to be performed or supervised by Certified Arborist.
2. Trees to be relocated shall be root pruned six to eight weeks prior to transplanting. Landscape Contractor shall maintain transplanted material during construction period by watering, moving, spraying, fertilizing, and pruning.
3. Landscape Contractor is responsible for verifying locations of all underground and overhead utilities and easements prior to commencing work. All utility companies and/or the General Contractor shall be notified to verify locations prior to digging. Utility trenching is to be coordinated with the Landscape Contractor prior to beginning of project. The Owner and Certified Arborist shall not be responsible for damage to utility or irrigation lines.
4. The Landscape Contractor shall comply with all local and state codes and shall be responsible for obtaining all applicable permits.
5. The Landscape Contractor shall regularly inspect the relocated material to ensure compliance with standard horticultural practices.
6. The Landscape Contractor is responsible for guaranteeing the transplanted trees and palms for a period of one year. At the time of the final inspection all transplanted trees and palms that are not in viable condition shall be replaced by the Landscape Contractor.
7. The Landscape Contractor shall take all precautions to minimize shock of root pruning and transplanting in accordance with standard arboriculture practices.
8. The diameter of the root ball to be transplanted shall follow the guidelines set forth in the latest edition of the Florida Grades and Standards for Nursery Plants.
9. Roots shall be cleanly cut with a sharp spade, hand saw, chainsaw, or other approved root-pruning equipment.
10. Trees shall not be pruned at transplanting to compensate for root loss. Any pruning required shall be as per the ANSI A300 Standards.
11. For all palms except Sabal palmetto, only dead fronds shall be removed. Sabal palmetto shall have all fronds cut without damaging the bud. Fronds shall be securely tied around the bud prior to relocation and shall be untied after placement in the new planting hole. The bud shall be protected from damage or injury during relocation.
12. After root pruning trees, backfill roots to original existing grade with existing soil free of any deleterious material to root growth.
13. Provide a layer of 3" mulch over backfill area to prevent weed growth, conserve moisture and prevent evaporation. Keep mulch 6" away from the trunk.
14. Provide tree protection as per Landscape Architect's Tree Protection Detail to ensure that the tree or root system is not damaged during the root-pruning period.
15. After root pruning and prior to relocation, tree(s) shall be watered a minimum of twice weekly.
16. Transplanting shall occur within 24 hours after being dug for relocation. The root ball shall be kept moist.
17. Digging and preparation of the new hole for the transplant shall be done prior to removing the tree from the existing location.
18. The depth of the new hole shall be equal to the depth of the root ball and the width shall be equal to two to three times the width of the root ball.
19. Trees and palms shall be lifted from the ground with heavy equipment designed specifically for tree relocation so that the trunk and crown is not impacted and damaged by the equipment.
20. The slings used to lift the trees and large palms shall be non-binding nylon slings that are wrapped under the root ball to support the weight of tree or palm. Slings shall not be solely wrapped around the trunk of the tree. Padding the sling may be necessary so that the trunk is not damaged.

Notes - Tree and Palm Relocation (Contd.)

21. Trees and palms shall be planted so that the top of the rootball is flush with the existing grade. Ensure that deep planting does not occur. The tree and palm shall be centrally positioned in the planting hole and set straight, plumb or normal to the growth pattern prior to transplanting.
22. Transplanted trees and palms shall be backfilled with a uniform mix of 25% fully decomposed compost and 75% existing site soil cleaned free of weeds and rocks.
23. Trees and palms shall be watered to eliminate air pockets in the backfill mix prior to mulching.
24. A 4" soil berm shall be created around the edge of the planting hole to hold water, or as per the Landscape Architect's Planting Details.
25. Install tree and palm bracing as per the Landscape Architect's Planting Details, to ensure stability of trees and palms.
26. After transplanting trees and palms, the Landscape Contractor shall be responsible for watering to maintain soil moisture during the guarantee period. The following schedule is suggested: First month - Daily; Second month - 3 times per week; Third and Fourth month - 2 times per week; Last Eight months - 1 time per week. For trees over 4" in caliper at the time of planting, the suggested schedule is: First 6 weeks - Daily; from 1.5 months to 6 months - 3 times per week, last 6 months - 1 time per week.

Notes - Tree and Palm Protection

1. Fences shall be erected to protect trees and palms to be preserved. Fences define a specific protection zone for each tree or group of trees. Fences shall be installed prior to the beginning of construction and are to remain until all site work has been completed. Fences may not be relocated or removed without the written permission of the Arborist. Refer to the Landscape Architect's Tree Protection Detail.
2. Construction trailers, traffic, and storage areas must remain outside fenced areas at all times.
3. All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must traverse the protection area, disturbance shall be minimized by using techniques such as tunneling or boring.
4. No materials, equipment, spoil, or waste or washout water may be deposited, stored, or parked within the tree protection zone.
5. Additional tree pruning required for clearance during construction must be approved by the Certified Arborist and shall be performed by trained arborists, not by construction personnel.
6. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Landscape Contractor and the Certified Arborist should be notified immediately.
7. Any grading, construction, demolition, or other work that is expected to encounter tree roots must be monitored by the Landscape Contractor.
8. All trees shall be irrigated at least two times a week. Each irrigation session shall wet the soil within the tree protection zone to a depth of 30 inches.
9. Before grading, pad preparation, or excavation for foundations, footings, walls, or trenching near trees the trees shall be root pruned at the edge of the tree protection zone by cutting all roots cleanly to a depth of 36 inches. Roots shall be cut manually by digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw, narrow trencher with sharp blades, or other approved root-pruning equipment.
10. Any roots damaged during grading or construction shall be exposed to sound tissue and cut cleanly with a saw.
11. Spoil from trenches, basements, or other excavations shall not be placed within the tree protection zone, either temporarily or permanently.
12. No burn piles or debris pits shall be placed within the tree protection zone. No ashes, debris, or garbage may be dumped or buried within the tree protection zone.
13. Maintain fire-safe areas around the fences. Also, no heat sources, flames, ignition sources, or smoking is allowed near mulch or trees.
14. Protective barriers shall be placed around each tree, cluster of trees, or the edge of the preservation area at the specified distance. Protective barriers shall be a minimum of four feet above ground level and shall be constructed of wood, plastic, or metal, and shall remain in place until development is completed. Protective barriers shall be in place prior to the start of any construction.
15. Understory plants within protective barriers shall be protected.
16. No excess oil, fill, equipment, building materials or building debris shall be placed within the areas surrounded by protective barriers, nor shall there be disposal of any waste material such as paints, oils, solvents, asphalt, concrete, mortar or any other material harmful to trees or understory plants within the areas surrounded by protective barriers.
17. Trees shall not be braced in such a fashion as to scar, penetrate, perforate or otherwise inflict damage to the tree.
18. Natural grade shall be maintained within protective barriers. In the event that the natural grade of the site is changed as a result of site development such that the safety of the tree may be endangered, tree wells or retaining walls are required.
19. Fences and walls shall be constructed to avoid disturbance to any protected tree. Post holes and trenches located close to trees shall be dug by hand and adjusted as necessary, using techniques such as discontinuous footings, to avoid damage to major roots.

Note: Trees inherently pose a certain degree of hazard and risk from breakage, failure or other causes and conditions. Recommendations that are made are intended to minimize or reduce such hazardous conditions. However, there can be no guarantee or warranty that efforts to discover or correct unsafe conditions will prevent future breakage or failure, nor can there be any guarantee that all hazardous conditions have been detected. The client should not infer that a tree is safe either because services have been recommended or done to reduce risk, or because no services have been recommended or done on a specific tree. The client assumes any and all risks associated with pursuing consultant's advice and fully understands that he or she is engaged in securing professional consultation regarding the above-mentioned property.