- 10.00 SCOPE OF WORK TREE AND PALM PRUNING
- 0.01 All shade trees and palms shall be pruned by a Certified Arborist following the standards set forth in the American National Standard for Tree Care Operations, ANSI A-300 (Part 1)-2001 Pruning; (11 West 42 Street, New York, N.Y. 10036).
- 10.02 Pruning practices including tree inspection, tools and equipment, and pruning cuts, shall be performed as outlined in the ANSI A-300 standards. Hardwood trees shall be pruned on a regular cycle which shall be determined according to pruning objectives, tree species, tree age/size, tree condition, location, and usage. Trees shall be pruned at least one time each 2 years.
- 10.03 The pruning types to be implemented on hardwood trees shall be determined prior to each pruning cycle and shall consist of one or a combination of the following pruning types, as defined in the ANSI A-300 standards: crown cleaning, crown thinning, crown raising, and crown reduction.
- 10.04 Trees with crowns which spread over roadways shall be pruned by canopy raising and/or canopy reduction such that a 15-foot vertical clearance is maintained.
- 10.05 Trees with crowns which spread over sidewalks and other pedestrian areas shall be pruned by canopy raising and/or canopy reduction such that an 8-foot vertical clearance is maintained.
- 10.06 Trees with crowns which spread over parking areas shall be pruned by canopy raising and/or canopy reduction such that a 12-foot vertical clearance is maintained.
- 10.07 Trees adjacent to buildings, structures, fences, light posts, signs, or other fixtures shall have their crowns reduced to provide clearance from those structures or fixtures.
- 10.08 Palms shall be pruned on a regular cycle, at least 1 time per year.
- 10.09 Palms shall be pruned such that all brown lower fronds and no more than 1 to 2 rows of live fronds are removed. Live healthy fronds which are initiated above the horizontal plane shall not be removed (maximum frond removal shall result in a "9 and 3" position, as it relates to the face of a clock). All inflorescences and fruits (including coconuts) shall be removed.
- 10.10 Palm frond petioles shall be severed as close to the trunk as possible without causing damage to trunk tissues. All loose frond bases ("boots" and "thatch") shall be removed. Those which do not readily abscise shall not be forced, torn, or shaven. All volunteer tree seedlings (ficus, bischofia, schefflera, etc.) shall be removed from the remaining "boots" or "thatch" by cutting or pulling.
- 10.11 There shall be no tree or palm pruning within 10 feet of an energized power line; utility line-clearing crews shall be contacted if this service is needed.
- 10.12 All debris shall be collected daily and disposed of at authorized dumping
- 11.00 SCOPE OF WORK FERTILIZATION GENERAL PRACTICES
- 11.01 All fertilizers shall be applied in a professional, workmanlike manner in accordance with all state and local laws pertaining to the handling and usage of hazardous materials.
- 11.02 Fertilizers shall be provided on a regularly scheduled basis using the fertilizer types, rates, and frequencies specified herein. Monthly site inspections shall include evaluations of plant health and any subsequent needs for remedial fertilization.
- . FERTILIZER TYPES
- 1. The fertilizer to be used on all landscape material except for turfgrass, bromeliads, orchids, and other species sensitive to granular fertilizers, shall be a granular "Palm Special" 8-2-12 product, with at least 50% of the nitrogen and potassium in the slow-release form, preferably sulfur-coated. Fertilizer mix shall also contain micronutrients, specifically magnesium (kieserite, at least 3%), manganese sulfate (at least 1%), chelated iron

- (Trachelene, at least 1%), and trace amounts (less than 1%) of boron (boric acid), copper sulfate, and zinc sulfate.
 Turfgrass fertilizer shall be in granular form and have a 3-1-2, 4-1-3 (i.e.,
- 12-6-8 or 16-4-8) or similar ratio of N, P, and K, with at least 50% of the nitrogen in the insoluble or slow-release form. Fertilizer mix shall also contain iron (at least 0.5%) and other micronutrients such as magnesium, manganese, and zinc. A lower-nitrogen product can be used during the summer months so as not to substantially increase growth rates.
- Fertilizer for bromeliads or other species sensitive to granular fertilizer shall be a slow-release resin-coated product containing an N, P, and K ratio of 1-1-1 (i.e., Osmocote or Nutricote), and/or soluble 1-1-1 (i.e., Peters 20-20-20).
- 5. Fertilizer for orchids shall be a soluble 1-1-1 product.
- 6. A micronutrient product which contains sulfur, manganese sulfate, chelated iron, zinc, boron, and molybdenum shall be used on all specimen palms and any other species susceptible to deficiencies of such. It shall also be used as a supplement when needed to correct deficiencies.
- FEX HEIZER KATES
- Turfgrass, hedges, shrubs, and ground covers shall be fertilized at the rate
 of 1.0 to 1.5 pounds of actual nitrogen per 1,000 square feet of area per
 application.
- All free-standing palms and hardwood trees shall receive 1 to 8 pounds of the product recommended above, as per individual tree size (1 to 3 pounds each for small trees/palms; 3 to 5 pounds for each of the mid-size trees/palms; 5 to 8 pounds for large trees/palms).
- 3. Trees and palms with reduced rooting space in small planters or beds, or those with extensive ground cover beneath, shall have overall fertilizer rates proportionately reduced by 1/3 to 1/2 and frequencies increased to 6 times per year (1 time each 2 months) to prevent phytotoxicty.
- Resin-coated and soluble fertilizers shall be applied at label rates as specified for the intended plant species.
- 5. Micronutrient products shall be mixed at label rates

C. FERTILIZER FREQUENC

- All granular fertilizers for turfgrass, trees, palms, and woody shrubs shall be applied on a quarterly basis in February, May, August, and November.
- Trees and palms with reduced rooting space in small planters or beds, or those with extensive ground cover beneath, shall have overall fertilizer rates proportionately reduced by 1/3 to 1/2 and frequencies increased to 6 times per year (1 time each 2 months) to prevent phytotoxicity.
- All resin-coated fertilizers shall be applied on a quarterly basis or as per label rates.
- 4. Soluble 20-20-20 used on orchids shall be applied 1 time per month during the winter months and 2 times per month during the summer months. Bloom spikes and flowers shall not be sprayed with fertilizer products.
- All micronutrient products shall be applied quarterly or as directed for remedial treatments.

D. APPLICATION METHODS

- 1. Fertilizer for all plant material except turfgrass shall be broadcast by hand on the ground or in the planters underneath plant canopies prior to mulch applications. Fertilizer application shall begin at 2 to 6 inches away from trunks/crowns of trees and shrubs and continue out to the dripline of the plants. Granular fertilizer shall not be allowed to accumulate on any plant leaves, in plant crowns, or at leaf bases. Special care shall be taken to avoid getting fertilizer into the crowns of clustering plants such as mondo grass and flax lilies.
- Turfgrass fertilizer shall be applied with a rotary spreader after dew and irrigation water has dried from the leaves.
- Fertilizers shall not be applied to any drought-stressed plants or wet foliage.

- Slow-release fertilizer for bromeliads or other species sensitive to granular fertilizer shall be broadcast on the soil surface beneath the plants. Soluble fertilizer shall be sprayed and/or soil drenched.
- 5. Some overlap in fertilizer application can be expected in those areas which contain combinations of turf, shrubs, trees, and palms. Contractor shall be responsible for exercising judgment in reducing absolute rates of application where significant overlap occurs.
- Spillage, runoff, and spray drift of fertilizers into parking areas, courtyards, driveways, sidewalks, etc., shall be avoided and all excess fertilizer shall be swept, blown, vacuumed, or hosed off of parking areas, driveways, sidewalks, etc., immediately after application, so as to avoid staining.
 Irrigation shall be set to run through one complete cycle immediately after
- Irrigation shall be set to run through one complete cycle immediately after granular fertilizer application.

E. SPECIAL TREATMENT PROGRAMS

- During the first year following landscape installation, all relocated trees and palms shall be fertilized at 1/3 standard rates and increased frequency of once each 2 months. They shall also receive micronutrient root drenches once per month for the first three months, once each two months thereafter, or more often if directed by landscape architect or horticulturist.
- 12.00 SCOPE OF WORK PEST/DISEASE CONTROL GENERAL PRACTICES
- 12.01 Pest control shall be implemented on an as-needed basis only as part of an Integrated Pest Management (IPM) program. Contractor shall inspect all areas of the landscape at least 1 time per month for early detection of actual or potential pest and/or disease infestations which may require treatment.
- 12.02 Contractor shall accurately identify any pest, disease, or weed species and determine whether or not chemical treatment is required. If so, it shall be treated with the most appropriate selective pesticide following all pesticide label directions. All pesticides are to be applied in a professional manner in accordance with all state and local laws pertaining to the handling and usage of hazardous materials. Owner shall be notified of any and all chemical applications so that children and pets may be kept out of the treated areas until safe for re-entry.

A. TURFGRASS PESTS/DISE

- Insecticide treatments for turfgrass shall be provided on an as-needed basis. Product selection, application rates, and frequencies shall be determined after diagnosis, and repeat applications shall be made at the recommended rates and frequencies, as needed to obtain complete pest control.
- Fireant control in turfgrass and shrub areas may be necessary as often as 1 time per month, using fireant baits, broadcast in the vicinity of, but not on top of, each nest.
- . Fungicide treatments for turfgrass shall be provided on an as-needed basis Product selection, application rates, and frequencies shall be determined after diagnosis, and repeat applications shall be made at the recommended rates and frequencies, as needed to obtain complete disease control.
- Pre-emergent weed treatment in St. Augustine grass areas shall be provided in the spring and fall months using approved herbicide products.
- 5. Post-emergent weed treatments shall be provided as needed. Product selection shall depend upon weed species present and weather conditions.
- 6. Pre- and post-emergent turf weed control treatments for grasses and sedges shall be provided on an as-needed basis, using the most appropriate products, as directed on product labels.

B. TREE, PALM, AND SHRUB PESTS/DISEASES

Common pests of shrubs, such as insects and mites, shall be properly
identified and treated with the most appropriate pesticide following all
label directions. Follow-up treatments shall be provided as needed to
completely control the infestations.

<u>Z</u>

- s sensitive to granular

 2. Snail bait shall be broadcast in shrub beds or sprayed on the foliage of susceptible plants (mostly foliage plants) on an as-needed basis.
- Fungicide treatments shall be provided on an as-needed basis. Product selection, application rates, and frequencies must be determined after diagnosis.
- 4. Pre-emergent weed treatment in established shrub beds using Ronstar (Oxadiazon) or Surflan (Oryzalin) or a similar material may be used 1 to 2 times per year during the summer and fall months to control heavy seed-germinated weed infestations. These products shall be applied according to label directions immediately following mechanical weed control.
- 5. Round-Up (Glyphosate) herbicide may be used for post-emergent weed control in shrub beds, driveways, sidewalks, or other hardscape areas.
- 13.00 CLEAN-UP AND DISPOSAL
- 13.01 All debris shall be collected daily and disposed of at authorized dumping or recycling sites.
- 13.02 No tools or equipment shall be left on the site overnight.

05-11-2020 A 900

Esperanza Kelly
Florida Landscape Architect

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South Miami, FL 33143 LC26000540



5011 PINE TREE DRIVE Miami Beach, Florida

<u>N</u>

Description







Bulnesia arborea







5011 PINE TREE DRIVE Miami Beach, Florida

PROPOSED SHRUBS

<u>N</u> Description Date Checked by Drawn by Project number 05-11-2020 EK EK 200004

Helianthus debilis Psychotria nervosa Podocarpus macrophyllus Monstera deliciosa Bougainvillea spp. Muhlenbergia capillaris Begonia odorata 'Alba' Pennisetum villosum Gaillardia pulchella Tripsacum floridana

Esperanza Kelly Florida Landscape Architect LA6667109