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2021/07/02  
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TREE / PALM PROTECTION NOTES

1. CONTRACTOR QUALIFICATIONS

- 1.1. CONTRACTOR MUST BE A LICENSED LANDSCAPE CONTRACTOR.  
1.2. CONTRACTOR MUST HAVE A MINIMUM OF 10 YEARS OF PROVEN EXPERIENCE RELOCATING LARGE SPECIMEN TREES AND PALMS IN SOUTH FLORIDA.  
1.3. CONTRACTOR MUST HAVE PROVEN EXPERIENCE RELOCATING TREES AND PALMS OF THE SAME SPECIES AND SIZE AS THOSE TO BE RELOCATED FOR THE CURRENT PROJECT.  
1.4. CONTRACTOR MUST HAVE A CERTIFIED ARBORIST ON STAFF.

2. CONTRACTOR REQUIREMENTS

- 2.1. CONTRACTOR MUST VISIT THE JOBSITE AND INSPECT ALL TREES AND PALMS TO BE RELOCATED AS WELL AS EXISTING SITE CONDITIONS AND RESTRICTIONS PRIOR TO PREPARING BID.  
2.2. CONTRACTOR MUST VERIFY AND ENSURE THAT ALL TREES AND PALMS IDENTIFIED ON THE PLANS AND THOSE TAGGED ON THE JOBSITE CORRESPOND AS TO NUMBER AND DESCRIPTION. ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY. PRIOR TO PREPARING BID.  
2.3. CONTRACTOR MUST CONDUCT ALL WORK ASSOCIATED WITH RELOCATION AND MAINTENANCE OF TREES AND PALMS TO BE RELOCATED. NO WORK IS TO BE SUBCONTRACTED WITHOUT PRIOR WRITTEN CONSENT OF THE OWNER AND/OR LANDSCAPE ARCHITECT.  
2.4. CONTRACTOR MUST DESIGNATE A COMPETENT, ENGLISH-SPEAKING SUPERVISOR OR FOREMAN TO OVERSEE AND DIRECT ALL RELOCATION AND MAINTENANCE ACTIVITIES AS OUTLINED IN THESE SPECIFICATIONS.  
2.5. CONTRACTOR MUST SCHEDULE ROOT PRUNING TO PROVIDE THE MAXIMUM POSSIBLE TIME FOR NEW ROOT GROWTH. EVEN TREES AND PALMS THAT TYPICALLY DO NOT REQUIRE LONG (OR ANY) ROOT PRUNING WILL BENEFIT FROM MORE ROOT PRUNING TIME; THEREFORE, ALL TREES AND PALMS TO BE RELOCATED MUST BE ROOT PRUNED. CONTRACTOR MUST PROVIDE A ROOT PRUNE SCHEDULE FOR EACH TREE OR PALM TO BE RELOCATED AS AN ATTACHMENT TO THE BID.  
2.6. CONTRACTOR MUST CALL SUNSHINE 811 TO HAVE ALL UNDERGROUND UTILITIES LOCATED UNDER OR IN THE VICINITY OF THE CURRENT OR FUTURE LOCATIONS OF ALL TREES AND PALMS TO BE RELOCATED PRIOR TO WORK COMMENCING.  
2.7. CONTRACTOR MUST VERIFY WITH THE GENERAL CONTRACTOR THE ABSENCE OF ANY UNDERGROUND CONSTRUCTION OR OBSTRUCTIONS (E.G. BULKHEADS, SEPTIC SYSTEMS, ETC.) IN THE CURRENT AND FUTURE LOCATIONS OF ALL TREES AND PALMS TO BE RELOCATED.  
2.8. CONTRACTOR MUST ALERT THE LANDSCAPE ARCHITECT OF ANY TREES OR PALMS THAT WILL NOT SUCCESSFULLY RELOCATE DUE TO POOR HEALTH PRIOR TO BEGINNING ROOT PRUNING.  
2.9. CONTRACTOR MUST FLAG ALL PROPOSED TRANSPLANT LOCATIONS FOR THE LANDSCAPE ARCHITECT'S APPROVAL A MINIMUM OF 15 DAYS PRIOR TO RELOCATION.  
2.10. CONTRACTOR MUST ENSURE THAT ALL TREES AND PALMS TO BE RELOCATED ARE INSTALLED AT THE CORRECT GRADE OR ELEVATION, ACCORDING TO THE GRADING PLAN.  
2.11. CONTRACTOR MUST ENSURE THAT ALL ROOT FLARES ARE EXPOSED AFTER RELOCATION.  
2.12. CONTRACTOR MUST REMOVE ALL RESIDUAL ROOTS, STUMPS, AND PORTIONS THEREOF AND BACKFILL PITS FROM WHICH RELOCATED TREES AND PALMS WERE REMOVED WITH CLEAN FILL FLUSH WITH THE SURROUNDING GRADE.  
2.13. CONTRACTOR MUST REPAIR ANY DAMAGE TO OTHER PLANTS, LAWN, HARDSCAPES, OR NEW CONSTRUCTION WITHIN THE RELOCATION AREA AT CONTRACTOR'S EXPENSE. HARDSCAPES INCLUDE BUT ARE NOT LIMITED TO CURBS, WALKS, ROADS, FENCES, SITE FURNISHINGS, ETC.  
2.14. CONTRACTOR MUST PHOTOGRAPHICALLY DOCUMENT NEW ROOT GROWTH FOLLOWING EACH ROOT PRUNE AND SUBMIT THIS DOCUMENTATION TO THE LANDSCAPE ARCHITECT. THE PURPOSE OF THIS REQUIREMENT IS TO ENSURE THAT SUFFICIENT ROOT GROWTH HAS OCCURRED PRIOR TO THE SECOND AND SUBSEQUENT ROOT PRUNES AND FOLLOWING THE FINAL ROOT PRUNE PRIOR TO RELOCATION.  
2.15. CONTRACTOR MUST INSTALL AND MAINTAIN PROTECTION FENCING AROUND EACH TREE AND PALM TO BE RELOCATED BOTH DURING ROOT PRUNING AND AFTER RELOCATION. PROTECTION FENCING MUST CONSIST OF GALVANIZED WELDED WIRE FABRIC OR PLASTIC MESH ATTACHED TO 4" X 4" POSTS INSERTED AROUND THE PERIMETER OF THE DROPLINE OF THE TREE OR PALM. PROTECTION FENCING MUST BE PLUMB, TAUT, AND STURDY AT ALL TIMES AND MUST REMAIN IN PLACE THROUGHOUT THE ROOT PRUNING AND WARRANTY PERIODS, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.  
2.16. CONTRACTOR MUST OBTAIN ALL NECESSARY OR REQUIRED PERMITS FOR THE RELOCATION AND TRANSPORTATION OF THE TREES AND PALMS TO BE RELOCATED.  
2.17. CONTRACTOR MUST REPLACE ANY TREES OR PALMS SCARRED OR DAMAGED DURING RELOCATION, AT THE CONTRACTOR'S EXPENSE, WITH THE SAME OR SIMILAR SPECIES, SIZE, AND QUALITY. REPLACEMENT TREES OR PALMS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT, PREPARATION, AND/OR INSTALLATION. REPLACEMENT TREES AND PALMS MUST BE INSTALLED WITHIN 60 DAYS OF NOTICE.  
2.18. CONTRACTOR MUST GUARANTEE ALL RELOCATED TREES AND PALMS FOR ONE YEAR FROM THE DATE OF RELOCATION TO THE FINAL LOCATION. GUARANTEE MUST INCLUDE TREE HEALTH AND SETTLING.  
2.19. CONTRACTOR MUST PROVIDE ALL MATERIAL NECESSARY TO PERFORM THE WORK COVERED HEREIN, INCLUDING BUT NOT LIMITED TO BACKFILL MATERIAL, PROTECTION FENCING, FLAGGING, ADDITIVES AND SUPPLEMENTS, TEMPORARY IRRIGATION, BURLAP, WIRE, SHRINK WRAP, AND ALL NECESSARY TOOLS AND EQUIPMENT.

3. ROOT PRUNING SPECIFICATIONS

3.1. GENERAL

- 3.1.1. ALL TREES AND PALMS TO BE RELOCATED MUST BE WATERED DAILY FOR AT LEAST 2-3 DAYS PRIOR TO ANY ROOTS BEING CUT TO ENSURE THAT THEY ARE FULLY HYDRATED. EACH WATERING MUST THOROUGHLY SATURATE THE ROOTBALL TO ITS FULL DEPTH.  
3.1.2. EACH TREE AND PALM MUST THEN BE WATERED EVERY OTHER DAY, NOT RELYING ON RAIN, DURING THE ENTIRE ROOT PRUNING PROCESS EITHER BY A TEMPORARY IRRIGATION SYSTEM OR BY HAND. EACH WATERING MUST THOROUGHLY SATURATE THE ROOTBALL TO ITS FULL DEPTH.  
3.1.3. TREE AND PALM RELOCATION ACTIVITIES MUST BE SCHEDULED SO THAT REMOVAL AND REPLANTING TAKE PLACE IN THE SAME 24-HOUR PERIOD. NO TREES OR PALMS MAY BE "STOCKPILED" ONSITE OR OFFSITE FOR ANY PERIOD OF TIME WITHOUT PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. WHEN ALLOWED, APPROVAL FOR THE METHOD OF "STOCKPILING" MUST BE OBTAINED FROM THE LANDSCAPE ARCHITECT.  
3.1.4. ALL DIGGING IN THE ROOT ZONE DURING THE ROOT PRUNE PROCESS MUST BE DONE BY HAND; NO MACHINERY WILL BE ALLOWED. PRUNING OF ROOTS MUST BE DONE BY HAND WITH CLEAN, SHARP TOOLS. DO NOT PAINT CUT ROOTS WITH TREE PAINT OR ANY KIND OF SEALANT.  
3.1.5. MYCORRHIZA (ROOTSB® TRANSPARENT OR EQUIVALENT) MUST BE INCORPORATED INTO THE BACKFILL SOIL PRIOR TO BACKFILLING AS PER MANUFACTURER'S RECOMMENDATIONS.  
3.1.6. AFTER EACH ROOT PRUNE, EACH SECTION OF ROOTBALL THAT IS PRUNED MUST BE WRAPPED WITH BLACK PLASTIC AND THE TRENCH BACKFILLED WITH ORIGINAL EXCAVATED SOIL. A TREE RING WITH A MINIMUM HEIGHT OF 6" MUST BE CONSTRUCTED 6-12" OUTSIDE THE OUTERMOST EDGE OF THE ROOTBALL AND AROUND THE ENTIRE PERIMETER OF THE ROOTBALL TO DIRECT IRRIGATION WATER AND ANY ADDED SUPPLEMENTS DOWN INTO THE ROOTBALL DURING ROOT REGENERATION.  
3.1.7. ONCE THE TREE RING IS CONSTRUCTED AFTER EACH ROOT PRUNE, A HIGH-PHOSPHORUS ROOT STIMULANT MUST BE LIBERALLY APPLIED TO THE SURFACE OF THE ROOTBALL AND THOROUGHLY WATERED IN TO ENCOURAGE NEW ROOT GROWTH.

3.2. TREES

- 3.2.1. PRIOR TO ANY ROOTS BEING CUT, ALL MAJOR ROOTS MUST BE IDENTIFIED TO DETERMINE THE ROOTBALL DIAMETER BASED ON THE RELATIVE LOCATION AND SIZE OF THE ROOTS.  
3.2.2. MANY TREE RELOCATION SPECIFICATIONS USE "GENERAL RULES" TO CALCULATE MINIMUM ROOTBALL DIAMETER, SUCH AS MULTIPLYING THE DIAMETER AT BREAST HEIGHT (DBH) OF THE TREE BY A FACTOR OF 10 OR ALLOWING A MINIMUM OF 9'-12" OF ROOTBALL FOR EVERY 1" OF TREE CALIPER. OTHERS LIST UNREALISTIC MINIMUM SIZES FOR THE ROOTBALLS OF VARIOUS TREE CALIPERS OR HEIGHTS. IN MANY CASES, SUCH APPROACHES RESULT IN ROOTBALLS THAT ARE EITHER TOO LARGE OR TOO SMALL FOR A GIVEN TREE. THE FOLLOWING TABLE LISTS MINIMUM ROOTBALL DIAMETERS BASED ON REAL-WORLD EXPERIENCE OF TREE RELOCATION SPECIALISTS IN SOUTH FLORIDA:

CALIPER (inches)	MIN. ROOTBALL DIA. (feet)	CALIPER (inches)	MIN. ROOTBALL DIA. (feet)
1 - 4	3	12 - 14	8
4 - 5	4	15 - 17	10
6 - 7	5	18 - 24	12 - 15
8 - 9	6	25 - 30	15 - 25
10 - 11	7	30 +	as needed

- 3.2.3. WHENEVER POSSIBLE, ROOTBALLS MUST BE CIRCULAR IN SHAPE WITH AN EQUAL DISTANCE FROM THE TRUNK TO THE EDGE OF THE ROOTBALL ALL AROUND.  
3.2.4. MINIMUM ROOTBALL DEPTH MUST BE 24"-36" FOR ALL TREES TO BE RELOCATED, WITH THE ACTUAL DEPTH TO BE DETERMINED ONLY AFTER A THOROUGH EXAMINATION OF ALL ROOTS DURING THE INITIAL ROOT INSPECTION AND BASED ON THE ABSENCE OF MAJOR ROOTS AT THE BOTTOM OF THE ROOTBALL. ROOTBALLS DEEPER THAN 36" MAY BE REQUIRED FOR LARGE SPECIMEN TREES, DEPENDING ON THE RELATIVE LOCATIONS AND DEPTHS OF THE MAJOR ROOTS AS OBSERVED DURING THE INITIAL ROOT INSPECTION.

- 3.2.5. AS A GENERAL RULE, MINIMUM ROOT PRUNE TIME FOR TREES WITH A DBH OF LESS THAN 10" IS 12 WEEKS. THE FIRST ROOT PRUNE MUST BE ON TWO OPPOSING SIDES OF THE ROOTBALL, WITH THE SECOND ROOT PRUNE ON ONE OF THE OTHER TWO SIDES DONE A MINIMUM OF 6 WEEKS LATER, AND A THIRD ROOT PRUNE ON THE LAST SIDE DONE A MINIMUM OF 3 WEEKS AFTER THAT. THE SECOND AND THIRD ROOT PRUNES MAY ONLY BE DONE WHEN HEALTHY NEW ROOT GROWTH FROM EARLIER ROOT PRUNES IS EVIDENT (SEE SECTION 2.14 ABOVE FOR SPECIFICATIONS ON PHOTOGRAPHICALLY DOCUMENTING NEW ROOT GROWTH DURING THE ROOT PRUNE PROCESS). MORE TIME MAY BE NEEDED DURING THE COOLER MONTHS OF THE YEAR.  
3.2.6. AS A GENERAL RULE, MINIMUM ROOT PRUNE TIME FOR TREES WITH A DBH OF 10" OR GREATER IS 24 WEEKS. THE FIRST ROOT PRUNE MUST BE ON TWO OPPOSING SIDES OF THE ROOTBALL, WITH THE SECOND ROOT PRUNE ON ONE OF THE OTHER TWO SIDES DONE A MINIMUM OF 12 WEEKS LATER, AND A THIRD ROOT PRUNE ON THE LAST SIDE DONE A MINIMUM OF 6 WEEKS AFTER THAT. THE SECOND AND THIRD ROOT PRUNES MAY ONLY BE DONE WHEN HEALTHY NEW ROOT GROWTH FROM EARLIER ROOT PRUNES IS EVIDENT (SEE SECTION 2.14 ABOVE FOR SPECIFICATIONS ON PHOTOGRAPHICALLY DOCUMENTING NEW ROOT GROWTH DURING THE ROOT PRUNE PROCESS). MORE TIME MAY BE NEEDED DURING THE COOLER MONTHS OF THE YEAR.  
3.2.7. CERTAIN HARDWOOD TREES AND GYMNOSPERMS REQUIRE LONGER ROOT PRUNING TIMES. THESE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:  
- AVOCADO (PERSEA AMERICANA)  
- BLACK OLIVE (BUCIDA BUCERAS)  
- BRIDALVEIL (CAESALPINIA GRANADILLO)  
- CASSIAS (ALL SPECIES OF CASSIA)  
- LIGNUM VITAE (GUAIACUM SANCTUM & G. OFFICINALE)  
- PODOCARPUS (PODOCARPUS SP.)  
- LIVE OAK (QUERCUS VIRGINIANA)  
- MAHOGANY (SWietenia MAHOGONI)  
- MANGO (MANGIFERA INDICA)  
- PIGEON PLUM (COCOCCOLDA DIVERSIFOLIA)  
- SWEET ACACIA (ACACIA FARNESIANA)  
- SWEETGUM (BULNESIA ARBOREA)  
- WILD TAMARIND (LYSIOMA LATSILIQUEUM & L. SABICU)

FOR THESE TREES, THE MINIMUM ROOT PRUNE TIMES DISCUSSED IN SECTIONS 3.2.5 AND 3.2.6 ABOVE MAY BE INSUFFICIENT. ONLY WHEN SUFFICIENT NEW ROOT GROWTH HAS TAKEN PLACE FOLLOWING AN EARLIER ROOT PRUNE CAN THE NEXT ROOT PRUNE BE DONE, AND ONLY WHEN SUFFICIENT NEW ROOT GROWTH HAS TAKEN PLACE FOLLOWING THE FINAL ROOT PRUNE MAY THE TREE BE RELOCATED (SEE SECTION 2.14 ABOVE FOR SPECIFICATIONS ON PHOTOGRAPHICALLY DOCUMENTING NEW ROOT GROWTH DURING THE ROOT PRUNE PROCESS).

3.3. PALMS

- 3.3.1. THE FOLLOWING TABLE LISTS MINIMUM ROOTBALL DIAMETERS FOR VARIOUS SPECIES OF PALMS BASED ON REAL-WORLD EXPERIENCE OF RELOCATION SPECIALISTS IN SOUTH FLORIDA:
- | PALM SPECIES                           | ROOTBALL SPECIFICATIONS               |
|--|---------------------------------------|
| SABAL / CABBAGE PALM                   | 36" diameter                          |
| DATE PALM / FOXTAIL PALMS              | 12" from trunk in all directions      |
| ROYAL & COCONUT PALMS                  | 18 - 24" from trunk in all directions |
| CANARY DATE PALM                       | 24" from trunk in all directions      |
| SLOW-GROWING PALMS<br>(see sec. 3.3.4) | 24" from trunk in all directions      |
- 3.3.2. PALM ROOTBALLS MUST BE A MINIMUM OF 24" DEEP. WHENEVER POSSIBLE, ROOTBALLS MUST BE CIRCULAR IN SHAPE WITH AN EQUAL DISTANCE FROM THE TRUNK TO THE EDGE OF THE ROOTBALL ALL AROUND.  
3.3.3. AS A GENERAL RULE, MINIMUM ROOT PRUNE TIME FOR PALMS IS 6-8 WEEKS. THE FIRST ROOT PRUNE MUST BE ON TWO OPPOSING SIDES OF THE ROOTBALL, WITH THE SECOND ROOT PRUNE ON ONE OF THE OTHER TWO SIDES DONE A MINIMUM OF 3-4 WEEKS LATER, AND A THIRD ROOT PRUNE ON THE LAST SIDE DONE A MINIMUM OF 4-5 WEEKS AFTER THAT. THE SECOND AND THIRD ROOT PRUNES MAY ONLY BE DONE WHEN HEALTHY NEW ROOT GROWTH FROM EARLIER ROOT PRUNES IS EVIDENT (SEE SECTION 2.14 ABOVE FOR SPECIFICATIONS ON PHOTOGRAPHICALLY DOCUMENTING NEW ROOT GROWTH DURING THE ROOT PRUNE PROCESS). MORE TIME MAY BE NEEDED DURING THE COOLER MONTHS OF THE YEAR.  
3.3.4. CERTAIN PALMS, IN PARTICULAR THOSE THAT ARE SLOW-GROWING, REQUIRE LONGER ROOT PRUNING TIME. THESE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:  
- ALL SPECIES OF ARCHONTOPHOEIX  
- ALL SPECIES OF CORYPHA  
- AMERICAN OIL PALMS (ALL SPECIES OF ATTALAEA)  
- BISMARCK PALM (BISMARCKIA NOBILIS)  
- CUBAN & CARIBBEAN COPIERNICIA  
- CUBAN BELLY PALM (GASTROCOCCOS CRISPA)  
- GINGERBREADDOUM PALMS (ALL SPECIES OF HYPHAENE)  
- PALMYRA PALMS (ALL SPECIES OF BORASSUS)  
- SATAKE PALM (SATAKENTIA LUKIENSIS)  
- SAW PALMETTO (SERPENOA REPENS)  
- SILVER PALM (COCOCTHRIXINAX ARGENTATA)  
- ZOMBIE PALM (ZOMBIA ANTILLARUM)

FOR THESE PALMS, THE MINIMUM ROOT PRUNING TIME IS 4-6 MONTHS OR GREATER. ONLY WHEN SUFFICIENT NEW ROOT GROWTH HAS TAKEN PLACE FOLLOWING AN EARLIER ROOT PRUNE CAN THE NEXT ROOT PRUNE BE DONE, AND ONLY WHEN SUFFICIENT NEW ROOT GROWTH HAS TAKEN PLACE FOLLOWING THE FINAL ROOT PRUNE MAY THE TREE BE RELOCATED (SEE SECTION 2.14 ABOVE FOR SPECIFICATIONS ON PHOTOGRAPHICALLY DOCUMENTING NEW ROOT GROWTH DURING THE ROOT PRUNE PROCESS).

4. CANOPY PRUNING SPECIFICATIONS

4.1. TREES

- 4.1.1. PRIOR TO RELOCATION, THE CANOPY OF EACH TREE TO BE RELOCATED MUST BE SELECTIVELY PRUNED TO REMOVE CROSSING, DEAD, DISEASED, BROKEN, AND LOW-HANGING BRANCHES THAT MAY INTERFERE WITH CONSTRUCTION ACTIVITIES, OR THAT MAY INTERFERE OR RESTRICT STRAPPING OR LIFTING THE TREE DURING RELOCATION.  
4.1.2. FOR TREES BEING RELOCATED ONSITE, THE CANOPY MAY BE SELECTIVELY THINNED AND REDUCED BY NO MORE THAN 1/3 OF THE OVERALL CANOPY MASS, AT THE DIRECTION OF THE LANDSCAPE ARCHITECT; HOWEVER, THE BASIC SHAPE, FORM, AND CHARACTER OF THE TREE MUST BE PRESERVED.  
4.1.3. FOR TREES BEING RELOCATED OFFSITE, THE CANOPY MUST BE PRUNED, AT THE DIRECTION OF THE LANDSCAPE ARCHITECT, TO FIT ON THE TRAILER FOR TRANSPORT. EVERY EFFORT MUST BE MADE TO RETAIN AS MANY LARGE BRANCHES AS POSSIBLE AND TO PRESERVE AS MUCH OF THE SHAPE, FORM, AND CHARACTER OF THE TREE AS POSSIBLE TO THE WIDEST LOAD WIDTH ALLOWABLE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS AND ESCORTS TO TRANSPORT WIDE LOADS, PER FLORIDA LAW.  
4.1.4. ALL CANOPY PRUNING MUST BE CONDUCTED FOLLOWING ANSI A-300 TREE PRUNING STANDARDS AND BEST MANAGEMENT PRACTICES.  
4.1.5. ALL DEBRIS GENERATED DURING CANOPY PRUNING MUST BE REMOVED OFFSITE AND DISPOSED.

4.2. PALMS

- 4.2.1. IT IS WELL KNOWN THAT SOME PALMS SURVIVE RELOCATION BETTER WHEN ALL OF THE LEAVES ARE REMOVED (E.G. CABBAGE PALM, SABAL PALMETTO), AND THAT OTHER PALMS BENEFIT FROM HAVING THEIR LEAVES CUT IN HALF DURING RELOCATION (E.G. COCONUT PALM, COCOS NUCIFERA). BOTH OF THESE HORTICULTURAL PRACTICES, WHILE TRUE, ARE ONLY APPLICABLE WHEN PALMS ARE NOT ROOT PRUNED. LEAVES DO NOT NEED TO BE CUT IN HALF OR REMOVED FROM PALMS THAT ARE ADEQUATELY ROOT PRUNED. ON OCCASION WHEN SUFFICIENT ROOT PRUNING TIME IS NOT AVAILABLE, PALMS TO BE RELOCATED MAY HAVE THEIR LEAVES CUT IN HALF OR REMOVED ENTIRELY AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.  
4.2.2. PALM LEAVES MUST BE TIED UP WITH 2-PLY BIODEGRADABLE TWINE PRIOR TO RELOCATION TO PREVENT MECHANICAL DAMAGE DURING THE RELOCATION PROCESS.  
4.2.3. PALM TRUNKS SHALL ONLY BE "CLEANED UP" ACCORDING TO THE LANDSCAPE ARCHITECT'S SPECIFICATIONS SPECIFIC TO EACH PALM.

5. RELOCATION SPECIFICATIONS

5.1. GENERAL

- 5.1.1. LANDSCAPE CONTRACTOR TO FLAG ALL PROPOSED PLANT LOCATIONS FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION. NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF 15 DAYS PRIOR TO REVIEW.  
5.1.2. ALL TREES AND PALMS TO BE RELOCATED MUST BE WATERED DAILY FOR AT LEAST 5 DAYS PRIOR TO ANY RELOCATION TO ENSURE THAT THEY ARE FULLY HYDRATED. EACH WATERING MUST THOROUGHLY SATURATE THE ROOTBALL TO ITS FULL DEPTH.  
5.1.3. ALL ROOTBALLS MUST BE WRAPPED IN BURLAP AND THEN TIGHTLY WIRE-WRAPPED (USING REDLINE HORSE WIRE OR EQUIVALENT) TO KEEP THE ENTIRE ROOTBALL INTACT DURING RELOCATION. TREES AND PALMS GROWING IN LIMESTONE MUST BE DUG AND RELOCATED WITH THE ROOTS ATTACHED TO A SECTION OF ROCK AS PART OF THE ROOTBALL, SUCH THAT THE ROOTS REMAIN INTACT. ROOTBALLS COMING FROM SAND OR SANDY SOIL MAY ALSO NEED TO BE BOXED PRIOR TO RELOCATION, AT THE DISCRETION OF THE LANDSCAPE ARCHITECT.  
5.1.4. TREES AND PALMS BEING RELOCATED OFFSITE MUST HAVE THEIR ENTIRE ROOTBALLS THOROUGHLY AND TIGHTLY WRAPPED WITH PLASTIC SHRINK WRAP ON THE OUTSIDE OF THE WIRE WRAP, AND THE ENTIRE TREE OR PALM (INCLUDING CANOPY, TRUNK, AND ROOTBALL) MUST BE COVERED WITH A BREATHABLE TARP (E.G., SHADE CLOTH) DURING TRANSPORT.  
5.1.5. NEW PLANTING PITS FOR RELOCATED TREES AND PALMS MUST BE PREPARED PRIOR TO LIFTING THE PALM OR TREE FROM ITS CURRENT LOCATION AND MUST BE AT LEAST 3-4 FEET WIDER THAN THE ROOTBALL AND THE SAME DEPTH AS THE ROOTBALL, SUCH THAT THE FINAL ELEVATION OF THE TOP OF THE ROOTBALL IS AT OR SLIGHTLY ABOVE (NO MORE THAN 2" HIGHER) FINAL GRADE.  
5.1.6. TREES AND PALMS TO BE RELOCATED MUST BE LIFTED BY THE ROOTBALL ONLY, USING APPROPRIATELY SIZED (LENGTH AND STRENGTH) LIFTING STRAPS OR CHAINS. DURING LIFTING, THE TREE OR PALM MUST BE BALANCED IN A MORE-OR-LESS UPRIGHT POSITION, WITH THE STRAP ON THE TRUNK USED ONLY FOR BALANCING AND MANEUVERING THE TREE OR PALM INTO POSITION. NO CHAINS MAY BE USED AROUND OR AGAINST THE TRUNK AT ANY TIME. AT NO TIME SHALL 100% OF THE WEIGHT OF THE TREE OR PALM BE ON THE STRAP ATTACHED TO THE TRUNK. TRUNKS MUST BE HEAVILY PADDED WITH 30-60 LAYERS (DEPENDING ON SIZE AND WEIGHT) OF BURLAP BENEATH THE BALANCING STRAP.  
5.1.7. TREES AND PALMS MUST BE LIFTED WITH A CRANE OR BACKHOE APPROPRIATELY SIZED FOR THE SIZE AND WEIGHT OF THE TREE OR PALM AND LIFTED OR CARRIED DIRECTLY TO THE FINAL INSTALL LOCATION OR TRANSPORT TRAILER.  
5.1.8. ONCE LIFTING BEGINS, ANY UNCUT ROOTS UNDER OR AROUND THE ROOTBALL THAT MAY YET REMAIN MUST BE IMMEDIATELY SEVERED WITH HAND PRUNING TOOLS TO MINIMIZE TEARING AND ROOT DAMAGE.  
5.1.9. AGRIFORM PLANTING TABLETS (OR APPROVED EQUIVALENT) MUST BE EVENLY DISTRIBUTED AROUND THE PERIMETER OF THE PLANTING PIT AT THE RATE OF 2 TABLETS PER 1" TRUNK CALIPER PRIOR TO BACKFILLING.  
5.1.10. MYCORRHIZA (ROOTSB® TRANSPARENT OR EQUIVALENT) MUST BE INCORPORATED INTO THE BACKFILL SOIL PRIOR TO BACKFILLING.  
5.1.11. RELOCATED TREES AND PALMS MUST BE CENTERED IN THE PLANTING PIT, AND THE PIT BACKFILLED USING A 1:1 MIXTURE OF EXISTING SOIL AND 80:20 (DOT SAND/MUCK) SOIL MIX THOROUGHLY BLENDED TOGETHER. DO NOT USE MUDDY SOIL AS BACKFILL. (SEE 5.2.2 BELOW FOR SPECIAL CONDITIONS REGARDING DATE PALM BACKFILL SPECIFICATIONS.)  
5.1.12. SMALL TREES AND PALMS MUST BE FIRMLY BRACED USING A MINIMUM OF FOUR 4" X 4" WOODEN BRACES ATTACHED TO 2" X 4" WOODEN BATTENS HELD IN PLACE WITH TWO STEEL BANDS. LARGER TREES MAY REQUIRE 6" X 6" WOODEN POSTS OR EVEN TELEPHONE POLES TO PROVIDE SUFFICIENT BRACING STRENGTH TO PREVENT TOPPLING DURING WIND EVENTS. A SUFFICIENT NUMBER OF BATTENS MUST BE STRATEGICALLY PLACED AROUND THE TRUNK SUCH THAT THE STEEL BANDS NEVER CONTACT THE TRUNK. NO BURLAP IS TO REMAIN UNDER THE WOODEN BATTENS ON TREES DURING BRACING, BUT SEVERAL LAYERS OF BURLAP SHOULD BE LEFT UNDER THE WOODEN BATTENS WHEN BRACING PALMS. NAILS SHALL NEVER BE DRIVEN DIRECTLY INTO THE TRUNK DURING BRACING. BRACING MUST REMAIN IN PLACE FOR A MINIMUM OF ONE YEAR.  
5.1.13. A TREE RING IN A MINIMUM HEIGHT OF 6" MUST BE CONSTRUCTED 6-12" OUTSIDE THE OUTERMOST EDGE OF THE ROOTBALL AND AROUND THE ENTIRE PERIMETER OF THE ROOTBALL TO DIRECT IRRIGATION WATER AND ANY SUPPLEMENTS THAT ARE ADDED DOWN INTO THE ROOTBALL DURING ROOT REGENERATION.  
5.1.14. ONCE THE TREE RING IS CONSTRUCTED, A HIGH-PHOSPHORUS ROOT STIMULANT MUST BE LIBERALLY APPLIED TO THE SURFACE OF THE ROOTBALL AND THOROUGHLY WATERED IN.  
5.1.15. ROOTBALLS MUST BE THOROUGHLY WATERED IN USING A HOSE AND A JOHNSON BAR INSERTED TO THE VERY BOTTOM OF THE ROOTBALL AND SWUNG BACK AND FORTH TO PREVENT FORMATION OF AIR POCKETS. THE JOHNSON BAR TECHNIQUE MUST BE REPEATED AT LEAST ONCE MORE WITHIN ONE WEEK AFTER RELOCATION, AND AGAIN IF ANY SIGNS OF STRESS BECOME APPARENT.  
5.1.16. ORGANIC MULCH (MELALEUCA IS PREFERRED) MUST BE APPLIED WITHIN 48 HOURS OF RELOCATION AT A DEPTH OF 3-4" OVER THE ENTIRE TOP OF THE ROOTBALL FROM THE TREE RING TO WITHIN 6" OF THE TRUNK. MULCH MUST NOT BE APPLIED OR ALLOWED TO ACCUMULATE DIRECTLY AGAINST THE TRUNK.  
5.1.17. PITS FROM WHICH THE RELOCATED TREES AND PALMS WERE REMOVED MUST BE CLEANED OF ALL RESIDUAL ROOTS, STUMPS, AND PORTIONS THEREOF AND BACKFILLED WITH CLEAN FILL FLUSH WITH THE SURROUNDING GRADE.  
5.1.18. RESTORE THE SURFACE WITH MATERIAL TO MATCH ADJACENT AREAS. MATERIAL TO BE APPROVED BY THE LANDSCAPE ARCHITECT. CONTRACTOR TO PROVIDE A MINIMUM OF ONE YEAR WARRANTY ON SETTLING AND PLANT MATERIAL FROM TIME OF SUBSTANTIAL COMPLETION.

- 5.2. SPECIAL CONDITIONS  
5.2.1. MULTI-TRUNK TREES AND PALMS MUST BE RELOCATED AS ONE UNIT WITH A SINGLE ROOTBALL.  
5.2.2. PLANTING PITS FOR EDIBLE DATE PALMS (PHOENIX DACTYLIFERA) MUST BE BACKFILLED WITH PURE DOT SILICA SAND.

6. MAINTENANCE SPECIFICATIONS

6.1. GENERAL

- 6.1.1. ALL RELOCATED TREES AND PALMS MUST BE MAINTAINED FOR ONE YEAR FROM THE DATE OF RELOCATION TO THEIR FINAL LOCATIONS.  
6.1.2. CONTRACTOR MUST MAINTAIN ALL RELOCATED TREES AND PALMS FOR ONE FULL YEAR FROM THE DATE OF RELOCATION TO THE FINAL LOCATION.  
6.1.3. WHENEVER POSSIBLE, EACH TREE AND PALM MUST BE WATERED BY A PERMANENT AUTOMATIC IRRIGATION SYSTEM FOLLOWING RELOCATION. EACH WATERING MUST THOROUGHLY SATURATE THE ROOTBALL TO ITS FULL DEPTH; THIS WILL REQUIRE 25-50 GALLONS OF WATER FOR SMALL TREES AND PALMS, DEPENDING ON ROOTBALL SIZE, WHILE LARGE TREES WILL REQUIRE A MINIMUM OF 10 GALLONS PER FOOT OF ROOTBALL DIAMETER (I.E., A 10" DIAMETER ROOTBALL WILL REQUIRE A MINIMUM OF 100 GALLONS PER WATERING EVENT). WATERING FREQUENCY MUST BE EVERY DAY FOR THE FIRST TWO WEEKS, EVERY OTHER DAY FOR THE NEXT THREE WEEKS, AND EVERY THIRD DAY FOR THE NEXT 4-6 WEEKS.  
6.1.4. WHEN AN AUTOMATIC IRRIGATION SYSTEM IS NOT POSSIBLE, CONTRACTOR IS RESPONSIBLE FOR HAND WATERING RELOCATED TREES AND PALMS THROUGHOUT THE MAINTENANCE PERIOD AND UNTIL FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT AND/OR CLIENT.  
6.1.5. IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION, A HIGH-PHOSPHORUS ROOT STIMULANT MUST BE APPLIED TO THE SURFACE OF THE ROOTBALL AT THE RECOMMENDED LABEL RATE AND WATERED IN WITH A DRENCH CONSISTING OF A SYSTEMIC INSECTICIDE AND A CONTACT ROOT ROT FUNGICIDE, FOLLOWING LABEL INSTRUCTIONS, AS CONTINUING PREVENTATIVE MAINTENANCE.  
6.1.6. EVERY THREE MONTHS THEREAFTER, A HIGH-PHOSPHORUS ROOT STIMULANT MUST BE APPLIED TO THE SURFACE OF THE ROOTBALL AT THE RECOMMENDED LABEL RATE AND WATERED IN WITH A DRENCH CONSISTING OF A SYSTEMIC INSECTICIDE AND A BROAD-SPECTRUM SYSTEMIC FUNGICIDE, FOLLOWING LABEL INSTRUCTIONS, AS CONTINUING PREVENTATIVE MAINTENANCE.  
6.1.7. IRRIGATION AND BRACING MUST BE CHECKED AND EACH TREE OR PALM THOROUGHLY INSPECTED FOR SIGNS OF STRESS, DISEASE, OR PEST PROBLEMS ON A MONTHLY BASIS.  
6.2. SHADE TREES

- 6.2.1. IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION AND EVERY THREE MONTHS THEREAFTER, A HIGH-QUALITY, SLOW-RELEASE 15-2-15 GRANULAR FERTILIZER MUST BE APPLIED, AT THE RECOMMENDED LABEL RATE, SPREAD EVENLY ACROSS THE SURFACE OF THE ROOTBALL.  
6.2.2. FOLIAR FEED FOUR TIMES PER YEAR.

6.3. FLOWERING TREES

- 6.3.1. IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION AND EVERY THREE MONTHS THEREAFTER, A HIGH-QUALITY, SLOW-RELEASE 5-10-15 GRANULAR FERTILIZER MUST BE APPLIED, AT THE RECOMMENDED LABEL RATE, SPREAD EVENLY ACROSS THE SURFACE OF THE ROOTBALL.  
6.3.2. FOLIAR FEED FOUR TIMES PER YEAR.

6.4. PALMS

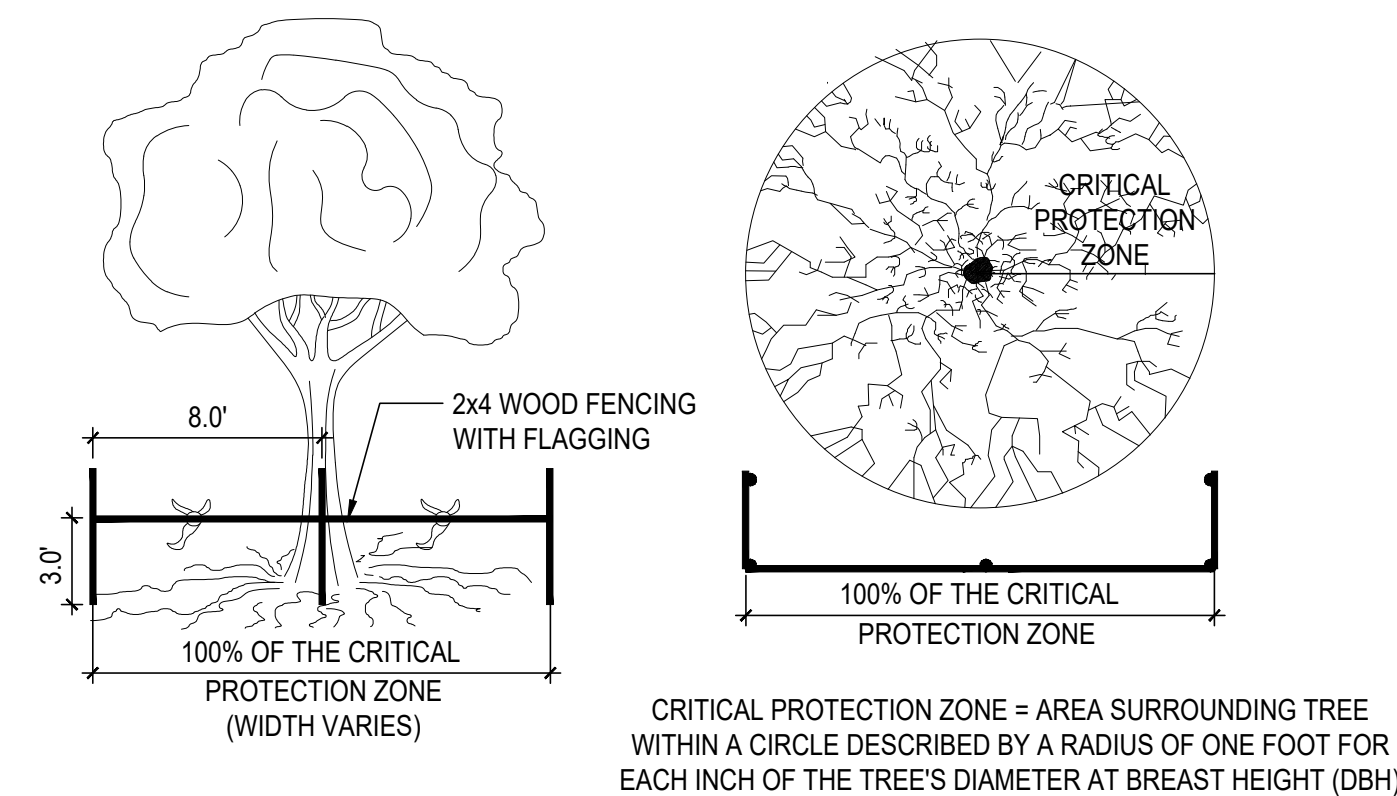
- 6.4.1. STRING MUST BE REMOVED FROM THE TIED UP LEAVES IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION IF THE PALM WAS ROOT PRUNED OR WITHIN 30-45 DAYS OF RELOCATION. ON THE OCCASION THE LANDSCAPE ARCHITECT APPROVED RELOCATION WITHOUT ROOT PRUNING DUE TO TIME CONSTRAINTS.  
6.4.2. IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION AND EVERY THREE MONTHS THEREAFTER, A HIGH-QUALITY, SLOW-RELEASE 8-4-12 GRANULAR PALM FERTILIZER WITH MINORS MUST BE APPLIED, AT THE RECOMMENDED LABEL RATE, SPREAD EVENLY ACROSS THE SURFACE OF THE ROOTBALL.  
6.4.3. FOLIAR FEED SIX TIMES PER YEAR.

7. TREE PROTECTION SPECIFICATIONS

- 7.1. TREE PROTECTION FENCES SHALL BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION ACTIVITY INCLUDING GRUBBING FOR ALL TREES / PALMS TO REMAIN OR BE RELOCATED.  
7.2. FENCES SHOULD BE OF STURDY CONSTRUCTION, PREFERABLY 4"x4" POSTS WITH WIRE MESH. ORANGE PLASTIC MESH FENCES ARE INEFFECTIVE BECAUSE THEY ARE EASILY REMOVED, DROPPED, KNOCKED DOWN, IGNORED, ETC.  
7.3. FENCES MUST BE MAINTAINED INTACT UNTIL THE PROJECT IS COMPLETED. THEY SHOULD NOT BE REMOVED OR DROPPED FOR ANY REASON WITHOUT AUTHORIZATION FROM THE CITY'S URBAN FORESTER.  
7.4. NO ACTIVITY OR DISTURBANCE SHOULD OCCUR WITHIN THE FENCED AREAS, INCLUDING VEHICLE USE, STORAGE OF MATERIALS, DUMPING OF LIQUIDS OR MATERIALS, GRADE CHANGES, GRUBBING, MECHANICAL TRENCHING FOR IRRIGATION, ELECTRICAL LIGHTING, ETC.

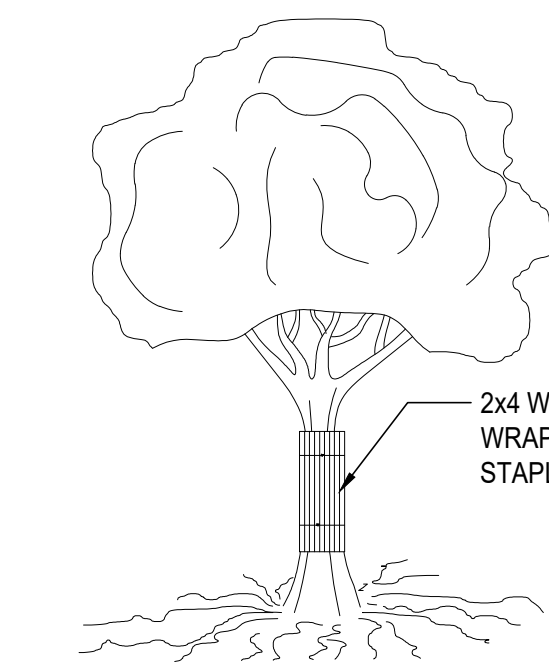
8. WARRANTY

- 8.1. ALL RELOCATED TREES AND PALMS MUST BE GUARANTEED FOR ONE YEAR FROM THE DATE OF RELOCATION TO THEIR FINAL LOCATIONS.  
8.2. IF A TREE OR PALM DIES WITHIN THE 1-YEAR WARRANTY PERIOD, IT MUST BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.  
8.3. IF A TREE OR PALM PERFORMS POORLY WITHIN THE 1-YEAR WARRANTY PERIOD, IT MUST BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. THE DECISION TO REPLACE BASED ON POOR HEALTH IS AT THE DISCRETION OF THE LANDSCAPE ARCHITECT.  
8.4. IF A TREE OR PALM SETTLES TO AN UNHEALTHY DEPTH WITHIN THE 1-YEAR WARRANTY PERIOD, AS DEEMED BY THE LANDSCAPE ARCHITECT, IT MUST BE RAISED TO THE CORRECT GRADE AT CONTRACTOR'S EXPENSE.



1. TREE BARRICADE DETAIL

SCALE: N/A



2. TREE TRUNK PROTECTION DETAIL

SCALE: N/A

jungles

Landscape Architect FASLA  
2984 Aviation Avenue  
Coconut Grove, FL 33133  
PH 305.858.6777 FAX 786.783.4382  
www.raymondjungles.com

PROJECT NO.: 19000

HISTORIC PRESERVATION BOARD - FIRST SUBMISSION  
OCEAN TERRACE  
OCEAN TERRACE, MIAMI BEACH, FL 33141

NO.	DATE	DESCRIPTION
1	06/14/2021	19000-01 SITE SUBMITTAL - REVISION 1
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SEAL:

LANDSCAPE ARCHITECT

FLORIDA LICENSE NO.  
LA 0000856  
Not valid for construction unless signed in this box

SHEET TITLE:  
PLANTING NOTES  
AND SPECIFICATIONS

Scale: AS NOTED  
Drawn By:  
Checked By:  
Date: 06/14/2021  
SHEET NUMBER:

LR.200



## jungles

19000 Ocean Terrace

Existing Tree Inventory by Raymond Jungles, Inc., July 16, 2019

Existing Trees and Palms									
Idem.	Symbol	Scientific Name	Common Name	D.B.H. (Inches)	O.A. Height (feet)	Spread (feet)	Disposition	Comments	
1	WRO	Washingtonia robusta	Washingtonia Palm	15	15		Relocate on-site		
2	CNU	Cocos nucifera	Coconut palm	9	20	18	Relocate on-site		
3	WRO	Washingtonia robusta	Washingtonia Palm	12	50	8	Relocate on-site	Location to be laid out in-field by L.A.	
4	WRO	Washingtonia robusta	Washingtonia Palm	10	35	8	Relocate on-site	Location to be laid out in-field by L.A.	
5	WRO	Washingtonia robusta	Washingtonia Palm	12	37	8	Relocate on-site	Location to be laid out in-field by L.A.	
6	PDA	Phoenix dactylifera	Date Palm	14	27	24	Relocate on-site	Location to be laid out in-field by L.A.	
7	PDA	Phoenix dactylifera	Date Palm	16	30	24	Relocate on-site	Location to be laid out in-field by L.A.	
8	WRO	Washingtonia robusta	Washingtonia Palm	12	46	8	Relocate on-site	Location to be laid out in-field by L.A.	
9	WRO	Washingtonia robusta	Washingtonia Palm	12	50	8	Relocate on-site	Location to be laid out in-field by L.A.	
10	WRO	Washingtonia robusta	Washingtonia Palm	12	46	8	Relocate on-site	Location to be laid out in-field by L.A.	
11	WRO	Washingtonia robusta	Washingtonia Palm	12	42	1	Remove	Dead	
12	WRO	Washingtonia robusta	Washingtonia Palm	12	48	8	Relocate		
13	WRO	Washingtonia robusta	Washingtonia Palm	14	48	8	Relocate on-site	Location to be laid out in-field by L.A.	
14	CNU	Cocos nucifera	Coconut Palm	14	40	18	Relocate on-site		
15	CNU	Cocos nucifera	Coconut Palm	10	30	18	Relocate on-site		
16	PDA	Phoenix dactylifera	Date Palm	16	28	22	Relocate on-site		
17	PDA	Phoenix dactylifera	Date Palm	16	30	22	Relocate on-site		
18	CNU	Cocos nucifera	Coconut Palm	12	45	20	Relocate on-site		
19	CNU	Cocos nucifera	Coconut Palm	12	38	20	Relocate on-site		
20	CER	Conocarpus erectus	Green Buttonwood	14	35	33	Relocate on-site		
21	CER	Conocarpus erectus	Green Buttonwood	16	35	30	Relocate on-site	Location to be laid out in-field by L.A.	
22	CNU	Cocos nucifera	Coconut Palm	12	42	20	Relocate on-site		
23	CNU	Cocos nucifera	Coconut Palm	14	42	20	Relocate on-site		
24	CNU	Cocos nucifera	Coconut Palm	12	40	20	Relocate on-site		
25	CNU	Cocos nucifera	Coconut Palm	12	38	20	Relocate on-site		
26	CNU	Cocos nucifera	Coconut Palm	12	32	20	Remain		
27	CNU	Cocos nucifera	Coconut Palm	10	18	20	Remain		
28	CNU	Cocos nucifera	Coconut Palm	12	30	22	Remain		
29	CNU	Cocos nucifera	Coconut Palm	10	32	20	Relocate on-site		
30	WRO	Washingtonia robusta	Washingtonia Palm	12	48	8	Relocate on-site		
31	WRO	Washingtonia robusta	Washingtonia Palm	12	48	8	Relocate on-site		
32	WRO	Washingtonia robusta	Washingtonia Palm	12	48	8	Relocate on-site		
33	WRO	Washingtonia robusta	Washingtonia Palm	14	38	8	Relocate on-site		
34	WRO	Washingtonia robusta	Washingtonia Palm	14	40	8	Relocate on-site		
35	WRO	Washingtonia robusta	Washingtonia Palm	14	40	8	Relocate on-site		
36	WRO	Washingtonia robusta	Washingtonia Palm	14	40	8	Relocate on-site		
37	PDA	Phoenix dactylifera	Date Palm	18	36	24	Relocate on-site		
38	WRO	Washingtonia robusta	Washingtonia Palm	12	40	8	Remain		
39	WRO	Washingtonia robusta	Washingtonia Palm	12	40	8	Remain		
40	WRO	Washingtonia robusta	Washingtonia Palm	12	38	8	Remain		
41	WRO	Washingtonia robusta	Washingtonia Palm	12	38	8	Remain		
42	WRO	Washingtonia robusta	Washingtonia Palm	12	40	8	Remain		
43	WRO	Washingtonia robusta	Washingtonia Palm	12	38	8	Remain		
44	CNU	Cocos nucifera	Coconut Palm	12	28	24	Relocate on-site		
45	CNU	Cocos nucifera	Coconut Palm	10	25	20	Remain		
46	CNU	Cocos nucifera	Coconut Palm	10	28	20	Remain		
47	CNU	Cocos nucifera	Coconut Palm	10	25	20	Remain		
48	CNU	Cocos nucifera	Coconut Palm	8	24	16	Remain		
49	CNU	Cocos nucifera	Coconut Palm	10	26	18	Remain		
50	CNU	Cocos nucifera	Coconut Palm	8	24	18	Remain		
51	CNU	Cocos nucifera	Coconut Palm	10	26	20	Relocate on-site		
52	WRO	Washingtonia robusta	Washingtonia Palm	16	50	10	Relocate on-site		
53	RRE	Roystonea regia	Royal Palm	20	30	22	Relocate on-site	Location to be laid out in-field by L.A.	
54	RRE	Roystonea regia	Royal Palm	20	30	22	Relocate on-site	Location to be laid out in-field by L.A.	
55	RRE	Roystonea regia	Royal Palm	18	30	20	Relocate on-site	Location to be laid out in-field by L.A.	
56	WRO	Washingtonia robusta	Washingtonia Palm	14	40	8	Relocate on-site	Location to be laid out in-field by L.A.	
57	WRO	Washingtonia robusta	Washingtonia Palm	12	40	8	Relocate on-site	Location to be laid out in-field by L.A.	
58	WRO	Washingtonia robusta	Washingtonia Palm	12	40	8	Relocate on-site	Location to be laid out in-field by L.A.	
59	WRO	Washingtonia robusta	Washingtonia Palm	12	32	8	Relocate on-site	Location to be laid out in-field by L.A.	
60	WRO	Washingtonia robusta	Washingtonia Palm	14	40	8	Relocate on-site	Location to be laid out in-field by L.A.	
61	CNU	Cocos nucifera	Coconut Palm	12	30	20	Relocate on-site		
62	CNU	Cocos nucifera	Coconut Palm	12	22	20	Relocate on-site		
63	CNU	Cocos nucifera	Coconut Palm	12	30	20	Relocate on-site		
64	CNU	Cocos nucifera	Coconut Palm	12	32	20	Relocate on-site		
65	CNU	Cocos nucifera	Coconut Palm	10	18	12	Relocate on-site		
66	CNU	Cocos nucifera	Coconut Palm	14	30	22	Relocate on-site		
67	CNU	Cocos nucifera	Coconut Palm	12	32	22	Relocate on-site		
68	CNU	Cocos nucifera	Coconut Palm	12	32	22	Relocate on-site		
69	CNU	Cocos nucifera	Coconut Palm	12	32	22	Relocate on-site		
70	CNU	Cocos nucifera	Coconut Palm	12	30	22	Relocate on-site		
71	CNU	Cocos nucifera	Coconut Palm	12	35	22	Relocate on-site		
72	CNU	Cocos nucifera	Coconut Palm	12	35	22	Relocate on-site		
73	CNU	Cocos nucifera	Coconut Palm	12	35	22	Relocate on-site		
74	CNU	Cocos nucifera	Coconut Palm	12	35	22	Relocate on-site		
86	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
87	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
88	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
89	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
90	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
91	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
92	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
93	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
94	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
95	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
96	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
97	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
98	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
99	CNU	Cocos nucifera	Coconut Palm	12-14	25-35	18-22	Relocate on-site		
100	LMO	Leucothrinax morrisii	Silver Thatch Palm		4	8	Relocate on-site		
101	LMO	Leucothrinax morrisii	Silver Thatch Palm		4	8	Relocate on-site		
102	CNU	Cocos nucifera	Coconut Palm	12	40	22	Relocate on-site		
103	CNU	Cocos nucifera	Coconut Palm	10	26	20	Relocate on-site		
104	CNU	Cocos nucifera	Coconut Palm	12	35	20	Relocate on-site		
105	CNU	Cocos nucifera	Coconut Palm	10	20	20	Relocate on-site		
106	CNU	Cocos nucifera	Coconut Palm	12	30	20	Relocate on-site		
107	CNU	Cocos nucifera	Coconut Palm	12	25	20	Relocate on-site		
108	CNU	Cocos nucifera	Coconut Palm	12	35	22	Relocate		
109	CNU	Cocos nucifera	Coconut Palm	12	30	22	Remain		
110	CNU	Cocos nucifera	Coconut Palm	12	24	22	Remain	Location to be laid out in-field by L.A.	
111	CNU	Cocos nucifera	Coconut Palm	12	40	22	Remain		
112	CNU	Cocos nucifera	Coconut Palm	12	38	22	Remain		
113	CNU	Cocos nucifera	Coconut Palm	12	40	22	Relocate on-site		
114	CNU	Cocos nucifera	Coconut Palm	14	20	22	Relocate on-site		
115	CNU	Cocos nucifera	Coconut Palm	14	38	22	Relocate on-site		
116	CNU	Cocos nucifera	Coconut Palm	14	28	22	Relocate on-site		
117	CNU	Cocos nucifera	Coconut Palm	10	26	22	Relocate on-site		
118	CNU	Cocos nucifera	Coconut Palm	14	18	22	Relocate on-site		
119	CNU	Cocos nucifera	Coconut Palm	12	32	22	Relocate on-site		
120	CNU	Cocos nucifera	Coconut Palm	12	40	22	Remain		
121	CNU	Cocos nucifera	Coconut Palm	12	32	22	Relocate on-site		
122	CNU	Cocos nucifera	Coconut Palm	12	26	22	Remain		
123	CNU	Cocos nucifera	Coconut Palm	14	40	22	Relocate on-site		
124	CNU	Cocos nucifera	Coconut Palm	14	30	22	Relocate on-site		
125	CNU	Cocos nucifera	Coconut Palm	12	40	22	Relocate on-site		
126	CNU	Cocos nucifera	Coconut Palm	14	40	22	Relocate on-site		
127	CNU	Cocos nucifera	Coconut Palm	14	40	22	Relocate on-site		
128	CNU	Cocos nucifera	Coconut Palm	14	40	22	Remain		
129	CNU	Cocos nucifera	Coconut Palm	12	46	22	Relocate on-site		
130	CNU	Cocos nucifera	Coconut Palm	10	40	22	Remain		
131	CNU	Cocos nucifera	Coconut Palm	10	42	22	Relocate on-site		
132	CNU	Cocos nucifera	Coconut Palm	10	40	22	Remain		
133	CER	Conocarpus erectus	Green Buttonwood	20	32	32	Relocate on-site	Location to be laid out in-field by L.A.	
134	PDA	Phoenix dactylifera	Date Palm	24	26	24	Relocate on-site		
135	PDA	Phoenix dactylifera	Date Palm	24	26	24	Relocate on-site		
136	CNU	Cocos nucifera	Coconut Palm	10	30	20	Relocate on-site		
137	CNU	Cocos nucifera	Coconut Palm	10	30	20	Relocate on-site		
138	CNU	Cocos nucifera	Coconut Palm	10	32	20	Relocate on-site		
139	CNU	Cocos nucifera	Coconut Palm	12	38	20	Relocate on-site		
142	CER	Conocarpus erectus	Green Buttonwood	8	15	18	Remain		
143	CER	Conocarpus erectus	Green Buttonwood	8	15	18	Relocate on-site	Location to be laid out in-field by L.A.	
144	CER	Conocarpus erectus	Green Buttonwood	6	15	15	Relocate on-site	Location to be laid out in-field by L.A.	
145	CER	Conocarpus erectus	Green Buttonwood	6	15	15	Relocate on-site	Location to be laid out in-field by L.A.	
146	CER	Conocarpus erectus	Green Buttonwood	6	15	15	Relocate on-site	Location to be laid out in-field by L.A.	
147	CER	Conocarpus erectus	Green Buttonwood	6	15	15	Relocate on-site	Location to be laid out in-field by L.A.	
148	CER	Conocarpus erectus	Green Buttonwood	6	15	10	Relocate on-site	Location to be laid out in-field by L.A.	
149	CER	Conocarpus erectus	Green Buttonwood	8	18	12	Relocate on-site	Location to be laid out in-field by L.A.	
150	PDA	Phoenix dactylifera	Date Palm	20	18	16	Relocate on-site	Location to be laid out in-field by L.A.	
151	CNU	Cocos nucifera	Coconut Palm	14	40	20	Relocate on-site		
152	CNU	Cocos nucifera	Coconut Palm	16	20	14	Relocate on-site		
153	CNU	Cocos nucifera	Coconut Palm	10	28	18	Relocate on-site		
154	CNU	Cocos nucifera	Coconut Palm	10	25	20	Relocate on-site		
155	WRO	Washingtonia robusta	Washingtonia Palm	14	50	8	Relocate on-site	Location to be laid out in-field by L.A.	

Existing Trees and Palms				D.B.H. (Inches)	O.A. Height	Spread (feet)	Disposition	Comments
Idem.	Symbol	Scientific Name	Common Name					
156	WRO	Washingtonia robusta	Washingtonia Palm	12	42	8	Relocate on-site	
157	WRO	Washingtonia robusta	Washingtonia Palm	14	50	8	Relocate on-site	location to be laid out in-field by L.A.
158	WRO	Washingtonia robusta	Washingtonia Palm	12	44	8	Relocate on-site	location to be laid out in-field by L.A.
159	WRO	Washingtonia robusta	Washingtonia Palm	14	44	8	Relocate on-site	location to be laid out in-field by L.A.
160	LMO	Leucothrinax morrisii	Silver Thatch Palm	10	4	6	Relocate on-site	
161	LMO	Leucothrinax morrisii	Silver Thatch Palm	10	4	6	Relocate on-site	
162	WRO	Washingtonia robusta	Washingtonia Palm	16	48	8	Relocate on-site	location to be laid out in-field by L.A.
163	WRO	Washingtonia robusta	Washingtonia Palm	12	50	8	Relocate on-site	location to be laid out in-field by L.A.
164	CNU	Cocos nucifera	Coconut Palm	10	50	16	Relocate on-site	
165	CNU	Cocos nucifera	Coconut Palm	10	42	18	Relocate on-site	
166	CNU	Cocos nucifera	Coconut Palm	10	44	18	Remain	
167	CNU	Cocos nucifera	Coconut Palm	12	44	16	Relocate on-site	
168	CNU	Cocos nucifera	Coconut Palm	12	46	16	Relocate on-site	
169	CNU	Cocos nucifera	Coconut Palm	12	40	14	Relocate on-site	
170	CNU	Cocos nucifera	Coconut Palm	12	28	20	Remain	
171	CNU	Cocos nucifera	Coconut Palm	10	30	18	Remain	
172	CNU	Cocos nucifera	Coconut Palm	12	30	20	Remain	
173	CNU	Cocos nucifera	Coconut Palm	12	25	18	Relocate on-site	
174	CNU	Cocos nucifera	Coconut Palm	10	26	18	Relocate on-site	
175	CNU	Cocos nucifera	Coconut Palm	16	36	24	Relocate on-site	
176	CNU	Cocos nucifera	Coconut Palm	10	36	20	Remain	
177	CNU	Cocos nucifera	Coconut Palm	12	35	16	Remain	
178	WRO	Washingtonia robusta	Washingtonia Palm	18	50	10	Relocate on-site	location to be laid out in-field by L.A.
179	CNU	Cocos nucifera	Coconut Palm	16	24	20	Relocate on-site	
180	CNU	Cocos nucifera	Coconut Palm	16	24	20	Relocate on-site	
181	AWR	Acoelorrhaphe wrightii	Paurotis Palm	2 x 3	15	8	Relocate on-site	location to be laid out in-field by L.A.
182	AWR	Acoelorrhaphe wrightii	Paurotis Palm	2 x 3	15	8	Relocate on-site	location to be laid out in-field by L.A.
183	AWR	Acoelorrhaphe wrightii	Paurotis Palm	2 x 3	15	8	Relocate on-site	location to be laid out in-field by L.A.
184	AWR	Acoelorrhaphe wrightii	Paurotis Palm	2 x 3	15	8	Relocate on-site	location to be laid out in-field by L.A.
185	PDA	Phoenix dactylifera	Date Palm	18	35	16	Off-Site (To Remain)	
186	PDA	Phoenix dactylifera	Date Palm	16	26	16	Off-Site (To Remain)	
187	PDA	Phoenix dactylifera	Date Palm	16	34	16	Relocate on-site	
188	PDA	Phoenix dactylifera	Date Palm	20	22	22	Relocate on-site	
189	PDA	Phoenix dactylifera	Date Palm	18	22	22	Relocate on-site	
190	CNU	Cocos nucifera	Coconut Palm	12	22	18	Relocate on-site	
191	CNU	Cocos nucifera	Coconut Palm	10	20	20	Relocate on-site	
192	CNU	Cocos nucifera	Coconut Palm	12	20	20	Relocate on-site	
193	CNU	Cocos nucifera	Coconut Palm	14	30	20	Relocate on-site	
194	AWR	Acoelorrhaphe wrightii	Paurotis Palm	2 x 4	15	10	Relocate on-site	location to be laid out in-field by L.A.
195	AWR	Acoelorrhaphe wrightii	Paurotis Palm	2 x 4	15	10	Relocate on-site	location to be laid out in-field by L.A.
196	BMO	Bismarckia nobilis	Bismarckia Palm	4 x 5	12	20	Off-Site (To Remain)	
197	AME	Adonia merillii	Christmas Palm	4 x 5	14	18	Off-Site (To Remain)	
198	AME	Adonia merillii	Christmas Palm	24	24	20	Off-Site (To Remain)	
199	AME	Adonia merillii	Christmas Palm	4 x 4	10	16	Off-Site (To Remain)	
200	CNU	Cocos nucifera	Coconut Palm	10	26	18	Relocate on-site	
201	CNU	Cocos nucifera	Coconut Palm	8	26	16	Relocate on-site	
202	WRO	Washingtonia robusta	Washingtonia Palm	16	38	10	Relocate on-site	location to be laid out in-field by L.A.
203	WRO	Washingtonia robusta	Washingtonia Palm	16	46	8	Relocate on-site	location to be laid out in-field by L.A.
204	WRO	Washingtonia robusta	Washingtonia Palm	14	46	8	Relocate on-site	location to be laid out in-field by L.A.
205	IAS	Lagotisraema speciosa	Myrtle	12	10	10	Relocate on-site	location to be laid out in-field by L.A.
207	RMA	Ravenea madagascariensis	Traveler's Tree	48	18	14	Off-Site (To Remain)	
208	RMA	Ravenea madagascariensis	Traveler's Tree	5	14	6	Off-Site (To Remain)	
209	PDA	Phoenix dactylifera	Date Palm	16	22	24	Off-Site (To Remain)	
210	RRE	Roystonea regia	Royal Palm	16	24	16	Off-Site (To Remain)	
211	RRE	Roystonea regia	Royal Palm	18	42	22	Off-Site (To Remain)	
212	RRE	Roystonea regia	Royal Palm	12	24	16	Off-Site (To Remain)	
213	RRE	Roystonea regia	Royal Palm	16	24	8	Off-Site (To Remain)	
214	RRE	Roystonea regia	Royal Palm	14	24	18	Off-Site (To Remain)	
215	PDA	Phoenix dactylifera	Date Palm	14	32	24	Off-Site (To Remain)	
217	WRO	Washingtonia robusta	Washingtonia Palm	12	38	10	Relocate on-site	location to be laid out in-field by L.A.
218	WRO	Washingtonia robusta	Washingtonia Palm	12	35	10	Relocate on-site	location to be laid out in-field by L.A.
219	WRO	Washingtonia robusta	Washingtonia Palm	14	35	10	Remain	
220	WRO	Washingtonia robusta	Washingtonia Palm	14	40	10	Remain	
221	WRO	Washingtonia robusta	Washingtonia Palm	14	10	10	Remain	
222	WRO	Washingtonia robusta	Washingtonia Palm	12	38	10	Relocate on-site	location to be laid out in-field by L.A.
223	WRO	Washingtonia robusta	Washingtonia Palm	12	35	10	Relocate on-site	
224	PDA	Phoenix dactylifera	Date Palm	14	32	18	Off-Site (To Remain)	
225	AME	Adonia merillii	Christmas Palm	2 x 4	10	10	Off-Site (To Remain)	
226	AME	Adonia merillii	Christmas Palm	4 x 5	12	16	Off-Site (To Remain)	location to be laid out in-field by L.A.
227	CNU	Cocos nucifera	Coconut Palm	12	16	16	Off-Site (To Remain)	
228	SPA	Sabal palmetto	Cabbage Palm	12	22	12	Off-Site (To Remain)	
229	SPA	Sabal palmetto	Cabbage Palm	10	22	12	Off-Site (To Remain)	
230	SPA	Sabal palmetto	Cabbage Palm	12	22	10	Off-Site (To Remain)	
233	UNK		Ficus	2 x 5	14	8	Off-Site (To Remain)	Missing Photo
234	AIE	Albizia lebbek	Woman's Tongue	2 x 3	14	12	Off-Site (To Remain)	Missing Photo
235	AIE	Albizia lebbek	Woman's Tongue	6	16	24	Off-Site (To Remain)	Missing Photo
236	AIE	Albizia lebbek	Woman's Tongue	6	18	24	Off-Site (To Remain)	Missing Photo
237	UNK		Ficus	5	4	8	Off-Site (To Remain)	Missing Photo
238	CNU	Cocos nucifera	Coconut Palm	8	24	18	Off-Site (To Remain)	
239	SPA	Sabal palmetto	Cabbage Palm	10	10	10	Off-Site (To Remain)	
240	CNU	Cocos nucifera	Coconut Palm	10	32	14	Off-Site (To Remain)	
241	SPA	Sabal palmetto	Cabbage Palm	8	8	8	Off-Site (To Remain)	
242	SPA	Sabal palmetto	Cabbage Palm	10	14	12	Off-Site (To Remain)	
243	CUV	Coccoloba uvifera	Seagrape	14	18	30	Off-Site (To Remain)	
244	CNU	Cocos nucifera	Coconut Palm	10	24	20	Off-Site (To Remain)	
245	CNU	Cocos nucifera	Coconut Palm	10	24	16	Off-Site (To Remain)	
246	CNU	Cocos nucifera	Coconut Palm	10	24	16	Off-Site (To Remain)	
247	SPA	Sabal palmetto	Cabbage Palm	10	10	10	Off-Site (To Remain)	
248	AIE	Albizia lebbek	Woman's Tongue	6	20	24	Off-Site (To Remain)	
249	UNK		Thatch Palm (Line 7)	7 trees	4	5	Off-Site (To Remain)	Missing Photo
250	UNK					9	Off-Site (To Remain)	
251	CNU	Cocos nucifera	Coconut Palm	10	20	20	Off-Site (To Remain)	
252	CNU	Cocos nucifera	Coconut Palm	10	30	20	Off-Site (To Remain)	
253	CNU	Cocos nucifera	Coconut Palm	8	30	20	Off-Site (To Remain)	
254	CNU	Cocos nucifera	Coconut Palm	8	40	20	Off-Site (To Remain)	
255	CFA	Carica papaya	Papaya	3	10	10	Off-Site (To Remain)	
256	UNK		Ficus	5	14	8	Off-Site (To Remain)	Missing Photo
257	UNK		Ficus	4	16	8	Off-Site (To Remain)	Missing Photo
262	CNU	Cocos nucifera	Coconut Palm	10	18	16	Relocate on-site	
263	CNU	Cocos nucifera	Coconut Palm	11	19	16	Remain	
264	CNU	Cocos nucifera	Coconut Palm	10	17	16	Relocate on-site	
265	CNU	Cocos nucifera	Coconut Palm	10	19	16	Relocate on-site	
266	CNU	Cocos nucifera	Coconut Palm	9	21	16	Relocate on-site	
269	CNU	Cocos nucifera	Coconut Palm	12	30	17	Relocate on-site	
273	CNU	Cocos nucifera	Coconut Palm	9	24	18	Relocate on-site	
274	CNU	Cocos nucifera	Coconut Palm	9	24	18	Relocate on-site	
275	CNU	Cocos nucifera	Coconut Palm	7	25	16	Relocate on-site	
276	CNU	Cocos nucifera	Coconut Palm	8	24	16	Relocate on-site	
277	CNU	Cocos nucifera	Coconut Palm	9	34	17	Relocate on-site	
278	SPA	Sabal palmetto	Sabal Palm	10	15	7	Off-Site (To Remain)	
279	SPA	Sabal palmetto	Sabal Palm	11	13	6	Off-Site (To Remain)	
280	SPA	Sabal palmetto	Sabal Palm	10	15	7	Off-Site (To Be Relocated)	
281	SPA	Sabal palmetto	Sabal Palm	11	17	5	Relocate on-site	
282	SPA	Sabal palmetto	Sabal Palm	12	17	8	Relocate on-site	
283	SPA	Sabal palmetto	Sabal Palm	8	13	1	Relocate on-site	
284	SPA	Sabal palmetto	Sabal Palm	11	13	7	Relocate on-site	
285	SPA	Sabal palmetto	Sabal Palm	12	15	4	Relocate on-site	
286	SPA	Sabal palmetto	Sabal Palm	10	15	6	Relocate on-site	
287	CNU	Cocos nucifera	Coconut Palm	9	16	13	Off-Site (To Remain)	
288	CNU	Cocos nucifera	Coconut Palm	16	13	13	Off-Site (To Be Relocated)	
289	CNU	Cocos nucifera	Coconut Palm	10	17	14	Off-Site (To Remain)	
290	CNU	Cocos nucifera	Coconut Palm	9	14	18	Off-Site (To Remain)	
291	CNU	Cocos nucifera	Coconut Palm	8	44	18	Off-Site (To Remain)	
292	CNU	Cocos nucifera	Coconut Palm	8	44	17	Off-Site (To Remain)	
293	CNU	Cocos nucifera	Coconut Palm	9	44	17	Off-Site (To Remain)	
294	CNU	Cocos nucifera	Coconut Palm	8	27	13	Off-Site (To Remain)	
295	CUV	Coccoloba uvifera	Seagrape	9	17	17	Off-Site (To Remain)	
296	CNU	Cocos nucifera	Coconut Palm	9	31	16	Off-Site (To Remain)	
297	CNU	Cocos nucifera	Coconut Palm	10	31	17	Off-Site (To Remain)	
298	CNU	Cocos nucifera	Coconut Palm	11	29	15	Off-Site (To Remain)	
299	CNU	Cocos nucifera	Coconut Palm	8	31	15	Off-Site (To Remain)	
300	CNU	Cocos nucifera	Coconut Palm	9	31	16	Off-Site (To Remain)	
301	CNU	Cocos nucifera	Coconut Palm	9	29	16	Off-Site (To Remain)	
302	CUV	Coccoloba uvifera	Seagrape	9	17	17	Off-Site (To Remain)	
303	CER	Concarpus erectus	Green Buttonwood	3.6,7,8	18	18	Off-Site (To Be Relocated)	location to be laid out in-field by L.A.
304	CER	Concarpus erectus	Green Buttonwood	5.5,6,6	17	15	Off-Site (To Be Relocated)	location to be laid out in-field by L.A.
305	CER	Concarpus erectus	Green Buttonwood	5.7,6,6	18	17	Off-Site (To Be Relocated)	location to be laid out in-field by L.A.
308	CER	Concarpus erectus	Green Buttonwood	5.5,5,6,6	18	23	Off-Site (To Be Relocated)	location to be laid out in-field by L.A.
309	CNU	Cocos nucifera	Coconut Palm	9	28	15	Off-Site (To Remain)	
310	CNU	Cocos nucifera	Coconut Palm	9	30	16	Off-Site (To Remain)	