

# MILLER GARDEN STAR ISLAND

4-6 Star Island Drive, Miami Beach, FL 33139

FINAL SUBMITTAL DRB 24-1014  
DATE: 04-19-2024

Prepared by:

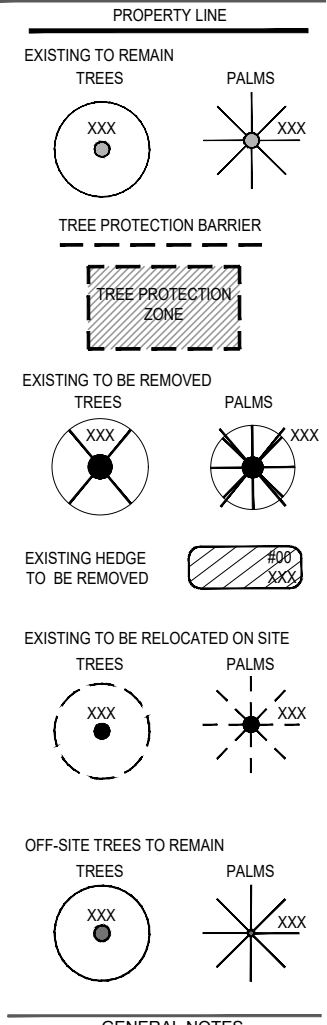
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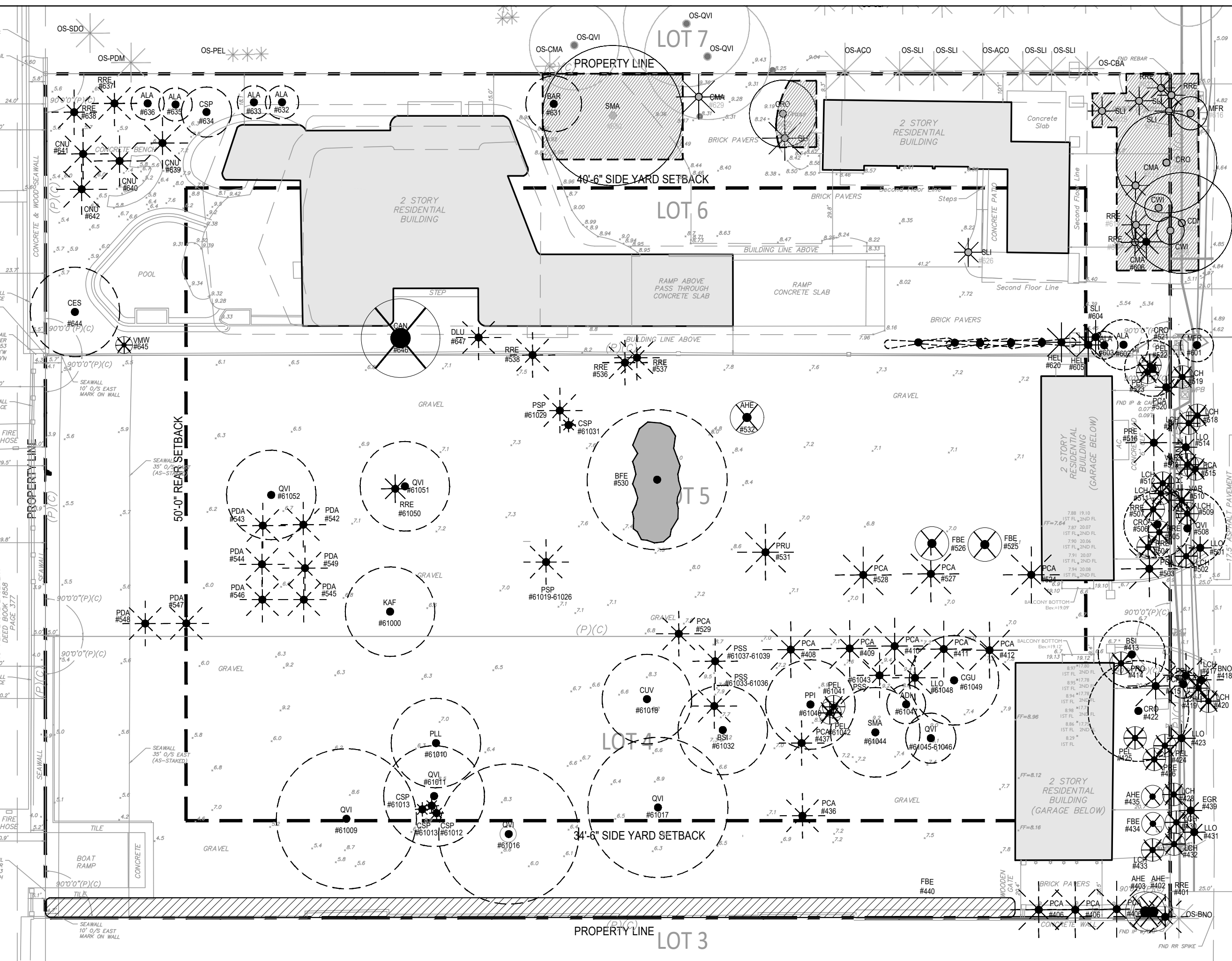
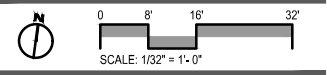
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**LEGEND**



**GENERAL NOTES**

- TREE SURVEY BASED ON ALL AVAILABLE INFORMATION. CONTRACTOR TO REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION. RAYMOND JUNGLES, INC. (RJI) MAY ASSIST WITH THE TAGGING OF ALL TREES IN THE FIELD.
- ALL TREES TO BE RELOCATED SHALL BE ROOT PRUNED A MINIMUM OF 60 DAYS PRIOR TO THEIR RELOCATION AND SHOULD BE SETUP ON A CONTROLLED IRRIGATION SYSTEM DURING THIS TIME. RJI WILL ALSO OVERSEE ANY RECOMMENDATIONS FOR FURTHER MODIFICATIONS TO ANY EXISTING MATERIAL.
- ALL PITS TO BE FILLED THE SAME DAY OF REMOVAL OF TREES. RESTORE SURFACE WITH SOD OR MULCH TO MATCH EXISTING CONDITIONS.
- CONTRACTOR SHALL VERIFY ALL EXISTING ABOVE AND UNDERGROUND UTILITIES 48 HOURS PRIOR TO ANY ON SITE EXCAVATION.
- REVIEW ADDITIONAL NOTES AND DETAILS ON SHEET LD.300 FOR RELOCATED MATERIAL.
- SEE LD.200 FOR TREE DISPOSITION SCHEDULE.
- REFER TO LANDSCAPE PLANS FOR FINAL LOCATION OF RELOCATED TREES.



Final Submittal DRB 24-1014  
**MILLER GARDEN  
 STAR ISLAND**  
 4-6 Star Island Drive, Miami Beach, FL 33139

**REVISIONS:**

No.	Date	Description

SEAL: LANDSCAPE ARCHITECT

FLORIDA LICENSE NO. LA000059  
 Not valid for construction unless signed in this box

SHEET TITLE: **TREE DISPOSITION PLAN**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024  
 SHEET NUMBER: **LD.100**

4,5,6 STAR ISLAND MIAMI BEACH, FL 33139

TREE DISPOSITION SCHEDULE  
Existing  
Per Survey Date 03/14/2024

Idem.	Symbol	Scientific Name	Common Name	D.B.H. (in)	O.A. Height (ft)	Canopy Diameter (ft)	Condition	Disposition	Mitigation Credits Required	Notes
LOT 4										
#401	BRC	<i>Roystonia regia</i>	Royal Palm	9	21 CT 30 OA	17	Good	Relocate	(1) Tree	
#402	AHE	<i>Araucaria heterophylla</i>	Norfolk Island Pine	6	24	15	Good	Remove	0	Mitigation not required; prohibited/controlled plant species
#403	AHE	<i>Araucaria heterophylla</i>	Norfolk Island Pine	7	28	15	Good	Remove	0	Mitigation not required; prohibited/controlled plant species
#404	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	22	18 CT 27 OA	18	Good	Relocate	0	
#405	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	21	15 CT 26 OA	24	Good	Relocate	0	
#406	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	23	15 CT 24 OA	20	Good	Relocate	0	
#407			Tree does not exist							
#408	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	26	25 CT 35 OA	22	Good	Relocate	0	
#409	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	28	25 CT 35 OA	22	Good	Relocate	0	
#410	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	28	26 CT 36 OA	22	Good	Relocate	0	
#411	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	28	24 CT 34 OA	22	Good	Relocate	0	
#412	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	26	25 CT 35 OA	22	Good	Relocate	0	
#413	BSI	<i>Bursera simaruba</i>	Gumbo Limbo	19	28	25	Good	Relocate	0	
#414	PRO	<i>Phoenix roebelinii</i>	Senegal Date Palm	10	8 CT 17 OA	16	Good	Remove	(1) Tree	
#415	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	27	25 CT 30 OA	25	Good	Relocate	0	
#416	PLU	<i>Palmelia spp.</i>	Frangipani	12	14	10	Good	Relocate	0	
#417	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	8	20 CT 27 OA	11	Good	Relocate	0	
#418	BNO	<i>Bismarckia nobilis</i>	Bismarck Palm	12	25 CT 33 OA	18	Good	Relocate	0	
#419	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	7	5 CT 11 OA	8	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#420	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	10	20 CT 27 OA	12	Good	Remove	(1) Tree	
#421			Tree does not exist							
#422	CRO	<i>Cusis rosea</i>	Pitch Apple	20	35	35	Good	Relocate	0	
#423	LLO	<i>Latania sp.</i>	Latan Palm	8	14 CT 21 OA	10	Good	Relocate	0	
#424	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	3	18 CT 14 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#425	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	4	25 CT 33 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#426	PRE	<i>Phoenix reclinata</i>	Senegal Date Palm Clump	14	12 CT 20 OA	16	Good	Remove	(1) Tree	
#427			Tree does not exist							
#428	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm double	17	24 CT 30 OA	15	Good	Remove	(1) Tree	
#429			Tree does not exist							
#430	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	8	8 CT 17 OA	15	Good	Remove	(1) Tree	
#431	LLO	<i>Latania sp.</i>	Latan Palm	7	12 CT 20 OA	14	Good	Relocate	0	
#432	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm triple	14	23 CT 28 OA	18	Good	Remove	(1) Tree	
#433	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	9	23 CT 28 OA	15	Good	Remove	(1) Tree	
#434	FBE	<i>Ficus benjamina</i>	Weeping Fig	35	40	45	Good	Remove	35	
#435	AHE	<i>Araucaria heterophylla</i>	Norfolk Island Pine	4	33	30	Good	Remove	0	Mitigation not required; prohibited/controlled plant species
#436	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	22	27 CT 34 OA	19	Good	Relocate	0	
#437	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	24	26 CT 35 OA	18	Good	Relocate	0	
#439	EGR	<i>Encyphalartos gratus</i>	Same	N/A	5	5	Good	Relocate	0	Shrub
#440	FBE	<i>Ficus benjamina</i>	Weeping Fig	N/A	15	N/A	Good	Remove	0	Mitigation not required; Hedge
#61009	QVI	<i>Quercus virginiana</i>	Live Oak	34	46	40	Good	Relocate	0	
#61010	PLL	<i>Pseudobombax ellipticum</i>	Shaving Brush Tree	22	35	43	Good	Relocate	0	
#61011	QVI	<i>Quercus virginiana</i>	Live Oak	24	28	48	Good	Relocate	0	
#61012	ESP	<i>Encyphalartos sp.</i>	Cycad	N/A			Good	Relocate	0	
#61013	ESP	<i>Encyphalartos sp.</i>	Cycad	N/A			Good	Relocate	0	
#61014	ESP	<i>Encyphalartos sp.</i>	Cycad	N/A			Good	Relocate	0	
#61016	QVI	<i>Quercus virginiana</i>	Live Oak	50	38	55	Good	Relocate	0	
#61017	QVI	<i>Quercus virginiana</i>	Live Oak	34	38	62	Good	Relocate	0	
#61018	CUV	<i>Coccoloba uvifera</i>	Seagrape	60	32	48	Good	Relocate	0	
#61032	BSI	<i>Bursera simaruba</i>	Gumbo Limbo	42	30	40	Good	Relocate	0	
#61033-61036	PSS	<i>Phoenix ssp.</i>	Date Palm Clump	8 x 4	14	10	Good	Relocate	0	
#61037-61039	PSS	<i>Phoenix ssp.</i>	Date Palm Clump	8 x 3	30	8	Good	Relocate	0	
#61040	PP1	<i>Pongamia pinnata</i>	Pongamia Tree	36	32	56	Good	Relocate	0	
#61041	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	3	18 CT 14 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#61042	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	3	18 CT 14 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#61043	PSS	<i>Phoenix ssp.</i>	Date Palm	8	16	8	Good	Relocate	0	
#61044	SMA	<i>Sweeten's mahogany</i>	Mahogany	24	35	25	Good	Relocate	0	
#61045-61046	QVI	<i>Quercus virginiana</i>	Live Oak	8.5, 3	20	18	Good	Relocate	0	Multi-Trunk
#61047	ADI	<i>Adansonia digitata</i>	Baobab	40	20	6	Good	Relocate	0	
#61048	LLO	<i>Latania sp.</i>	Latan Palm	36	18	8	Good	Relocate	0	
#61049	CGU	<i>Cusis guiffiera</i>	Small Leaf Cusis	48	26	18	Good	Relocate	0	

Idem.	Symbol	Scientific Name	Common Name	D.B.H. (in)	O.A. Height (ft)	Canopy Diameter (ft)	Condition	Disposition	Mitigation Credits Required	Comments
LOT 5										
#501	LLO	<i>Latania sp.</i>	Latan Palm	8	10 CT 18 OA	12	Good	Relocate	0	
#502	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	7	15 CT 20 OA	10	Good	Remove	(1) Tree	
#503	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	24	25 CT 36 OA	22	Good	Relocate	0	
#504	RRE	<i>Roystonia regia</i>	Royal Palm	9	26 CT 30 OA	14	Good	Remove	(1) Tree	
#505	RRE	<i>Roystonia regia</i>	Royal Palm	9	28 CT 36 OA	17	Good	Remove	(1) Tree	
#506	CRO	<i>Cusis rosea</i>	Pitch Apple	17	35	25	Good	Relocate	0	
#507	RRE	<i>Roystonia regia</i>	Royal Palm	9	28 CT 36 OA	17	Good	Remove	(1) Tree	
#508	QVI	<i>Quercus virginiana</i>	Live Oak	13	24	30	Good	Relocate	0	
#509	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	7	17 CT 26 OA	12	Good	Remove	(1) Tree	
#510	VAR	<i>Veitchia arcuata</i>	Montgomery Palm	3	18 CT 27 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#511	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm double	6	8 CT 16 OA	10	Good	Remove	(1) Tree	
#512	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm double	14	23 CT 28 OA	14	Good	Remove	(1) Tree	
#513	VAR	<i>Veitchia arcuata</i>	Montgomery Palm	3	11 CT 18 OA	8	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#514	LLO	<i>Latania sp.</i>	Latan Palm	8	16 CT 24 OA	10	Good	Relocate	0	
#515	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	12	23 CT 32 OA	14	Good	Relocate	0	
#516	PRE	<i>Phoenix reclinata</i>	Senegal Date Palm	90	30 CT 38 OA	30	Good	Relocate	0	
#517	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm double	12	18 CT 24 OA	14	Good	Remove	(1) Tree	
#518	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm double	14	19 CT 26 OA	14	Good	Remove	(1) Tree	
#519	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	8	19 CT 26 OA	12	Good	Remove	(1) Tree	
#520	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	21	30 CT 40 OA	24	Good	Relocate	0	
#521	CRO	<i>Cusis rosea</i>	Pitch Apple	6	26	20	Good	Relocate	0	
#522	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	3	18 CT 26 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#523	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	3	24 CT 32 OA	13	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#524	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	22	24 CT 35 OA	26	Good	Relocate	0	
#525	FBE	<i>Ficus benjamina</i>	Weeping Fig	25	17	30	Good	Remove	25	
#526	FBE	<i>Ficus benjamina</i>	Weeping Fig	27	17	30	Good	Remove	27	
#527	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	26	22 CT 30 OA	24	Good	Relocate	0	
#528	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	22	22 CT 30 OA	24	Good	Relocate	0	
#529	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	27	23 CT 34 OA	18	Good	Relocate	0	
#530	FBE	<i>Ficus benjamina</i>	Banyan	200	50	72	Good	Relocate	0	
#531	PRU	<i>Phoenix rupicola</i>	Cliff Date Palm	10	10 CT 18 OA	14	Good	Relocate	0	
#532	AHE	<i>Araucaria heterophylla</i>	Norfolk Island Pine	9	33	12	Good	Remove	0	Mitigation not required; prohibited/controlled plant species
#533			Tree does not exist							
#534			Tree does not exist							
#535			Tree does not exist							
#536	RRE	<i>Roystonia regia</i>	Royal Palm	20	52 CT 62 OA	18	Good	Relocate	0	
#537	RRE	<i>Roystonia regia</i>	Royal Palm	18	38 CT 38 OA	20	Good	Relocate	0	
#538	RRE	<i>Roystonia regia</i>	Royal Palm	18	33 CT 40 OA	24	Good	Relocate	0	
#539			Tree does not exist							
#540			Tree does not exist							
#541			Tree does not exist							
#542	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	18	40 CT 53 OA	26	Good	Relocate	0	
#543	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	14	37 CT 43 OA	18	Good	Relocate	0	
#544	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	20	33 CT 43 OA	25	Good	Relocate	0	
#545	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	16	38 CT 47 OA	24	Good	Relocate	0	
#546	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	18	33 CT 43 OA	18	Good	Relocate	0	
#547	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	13	37 CT 46 OA	25	Good	Relocate	0	
#548	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	14	28 CT 33 OA	25	Good	Relocate	0	

#549	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	14	28 CT 35 OA	25	Good	Relocate	0	
#61000	KAF	<i>Kigelia africana</i>	Sausage Tree	36	43	38	Good	Relocate	0	
#61019-61026	PSF	<i>Phoenix spp.</i>	Date Palm clump	8 x 10	22 CT 30 OA	20	Good	Relocate	0	
#61029	PSF	<i>Phoenix spp.</i>	Date Palm clump	10 x 4	24 CT 30 OA	22	Good	Relocate	0	
#61031	CSP	<i>Cycas sp.</i>	Cycad	8	5 OA	4	Good	Relocate	0	
#61050	RRE	<i>Roystonia regia</i>	Royal Palm	9	26 CT 30 OA	14	Good	Relocate	0	
#61051	QVI	<i>Quercus virginiana</i>	Live Oak	24	40	40	Good	Relocate	0	
#61052	QVI	<i>Quercus virginiana</i>	Live Oak	35	38	38	Good	Relocate	0	

Idem.	Symbol	Scientific Name	Common Name	D.B.H. (in)	O.A. Height (ft)	Canopy Diameter (ft)
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#61049-CGU-Clusia guttifera



#61011-QVI-Quercus virginiana



#61047-ADI-Adansonia digitata



#61018-CUV-Coccoloba uvifera



#61044-SMA-Swietenia mahagoni



#413-BSI-Bursera simaruba



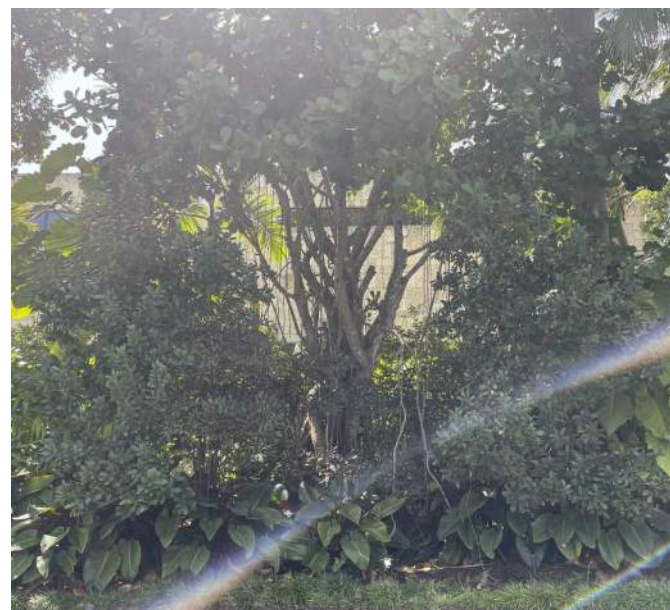
#422-CRO-Clusia rosea



#530-FBE-Ficus benghalensis



#610-CDI-Coccoloba diversifolia



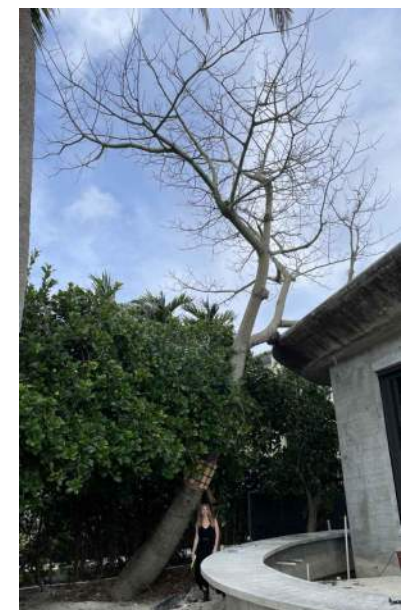
#612-CRO-Clusia rosea



#628-CRO-Clusia rosea



#630-SMA-Swietenia mahagoni



#634-CSP-Chorisia speciosa

REVISIONS:

No.	Date	Description

SEAL:  
LANDSCAPE ARCHITECT:  
  
FLORIDA LICENSE NO.  
LAD000999

Not valid for construction unless signed in this box.  
SHEET TITLE:  
**EXISTING SPECIMEN  
TREE IMAGERY**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024

SHEET NUMBER:  
**LD.202**

**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 FROM THE 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, MECHANICAL OR PLENUM 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 ARCHITECTS 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 AREAS 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 DRIPLINE 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 CITY 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 "STOCKPIILING" 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 (ROOTS® TRANSPLANT 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            | 6                         |
| 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 GYMOSPERMS REQUIRE LONGER ROOT PRUNING TIMES. THESE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
  - AVOCADO (PERSEA AMERICANA)
  - BLACK OLIVE (BUCCIA BUCERAS)
  - BRIDALVEIL (CAESALPINIA GRANADILLO)
  - CASSIAs (ALL SPECIES OF CASSIA)
  - LIGNUM VITAE (GUAJACUM SANCTUM & G. OFFICINALE)
  - PODOCARPUS (PODOCARPUS SP.)
  - LIVE OAK (QUERCUS VIRGINIANA)
  - MAHOGANY (SWIETENIA MAHAGONI)
  - MANGO (MANGIFERA INDICA)
  - PIGEON PLUM (COCOLOBA DIVERSIFOLIA)
  - SWEET ACACIA (ACACIA FARNESIANA)
  - VERAWOOD (BULNESIA ARBorea)
  - WILD TAMARIND (LYSILOMA LATSILISQUAM & 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
QUEEN & 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 (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 ARCHONTOPHOENIX
  - ALL SPECIES OF CORYPHA
  - AMERICAN OIL PALMS (ALL SPECIES OF ATTALEA)
  - BISMARCK PALM (BISMARCKIA NOBILIS)
  - CUBAN & CARIBBEAN COPERNICIA
  - CUBAN BELLY PALM (GASTROCOCCOS CRISPA)
  - GINGERBREADDOUM PALMS (ALL SPECIES OF HYPHAENE)
  - PALMYRA PALMS (ALL SPECIES OF BORASSUS)
  - SATAKE PALM (SATAKENTIA LIUKUENSIS)
  - SAW PALMETTO (SERENOA REPENS)
  - SILVER PALM (COCOOTHRIX ARGENTATA)
  - ZOMBIE PALM (ZOMBIA ANTILARUM)

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 (ROOTS® TRANSPLANT 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 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 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 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 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 6-8 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 INITIAL 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.

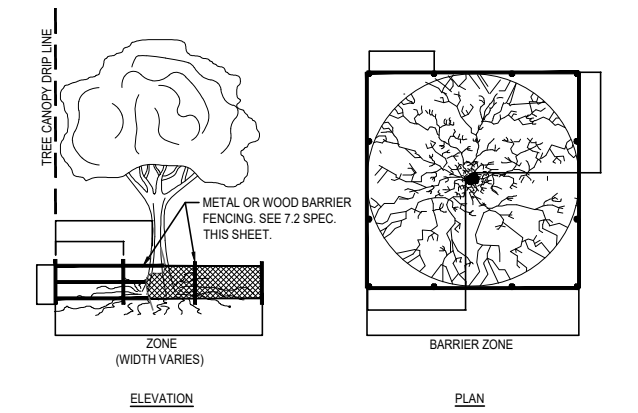
- 6.4. PALMS
- 6.4.1. STRING MUST BE REMOVED FROM THE TIED UP LEAVES IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION IF THE PALM WAS ROOT PRUNED OR WITHIN 30-45 DAYS AFTER RELOCATION ON THE OCCASION THE LANDSCAPE ARCHITECT APPROVED RELOCATION WITHOUT ROOT PRUNING DUE TO TIME CONSTRAINTS.
- 6.4.2. 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

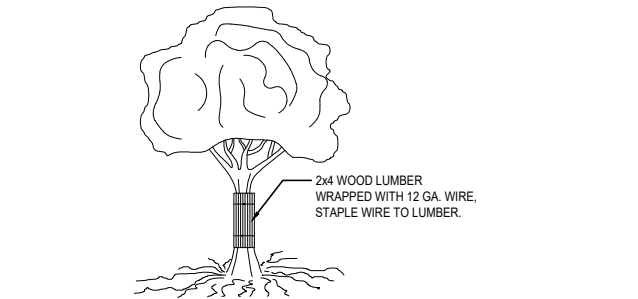
- 7.1. TREE PROTECTION FENCES SHALL BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION ACTIVITY INCLUDING GRUBBING FOR ALL TREES / PALMS TO REMAIN OR BE RELOCATED.
- 7.2. FENCES SHOULD BE OF STURDY CONSTRUCTION. STURDY TEMPORARY BARRIERS SHALL BE INSTALLED AROUND ALL TREE PROTECTION ZONES. BARRIERS SHALL BE A MINIMUM OF FOUR FEET HIGH, AND SHALL BE CONSTRUCTED OF CONTINUOUS CHAIN LINK FENCE WITH METAL POSTS AT EIGHT-FOOT SPACING, OR OF TWO-BY-FOUR INCH POSTS WITH THREE EQUALLY SPACED TWO-BY-FOUR INCH RAELS. POSTS MAY BE SHT TO AVOID ROOTS.
- 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**  
RAYMOND JUNGLES INC  
Landscape Architect FASLA

2964 Aviation Ave., Miami, FL 33133  
PH 305.658.6777  
www.raymondjungles.com

PROJECT NO. : 22065

Final Submittal DRB 24-1014

**MILLER GARDEN**

**STAR ISLAND**

4-6 Star Island Drive, Miami Beach, FL 33139

**REVISIONS:**

No.	Date	Description

SEAL:  
LANDSCAPE ARCHITECT:

FLORIDA LICENSE NO. L20000144  
Not valid for construction unless signed in this box.

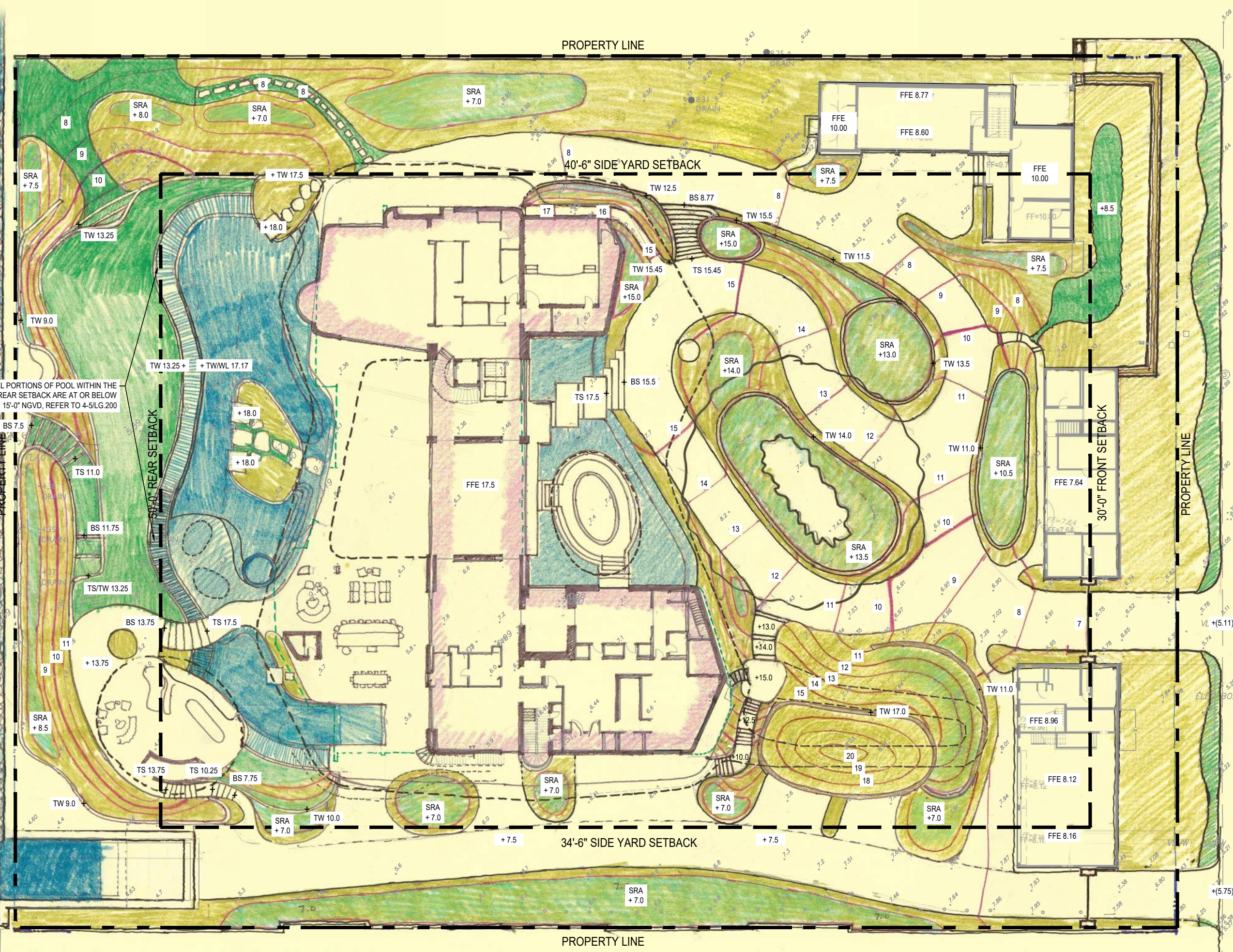
SHEET TITLE:  
**TREE DISPOSITION NOTES & DETAILS**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024  
SHEET NUMBER:  
**LD.300**









**LEGEND**

PROPERTY LINE

SETBACK

PROPOSED

SRA 00.00 SHALLOW RETENTION AREA

FFE FINISHED FLOOR ELEVATION

+00.00 NGVD PROPOSED SPOT ELEVATION

TS TOP OF STEP

BS BOTTOM OF STEP

TW TOP OF WALL

BW BOTTOM OF WALL

WL WATER LEVEL

EXISTING CONTOUR

PROPOSED CONTOUR

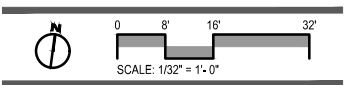
PROPOSED

PLANTING AREA

LAWN

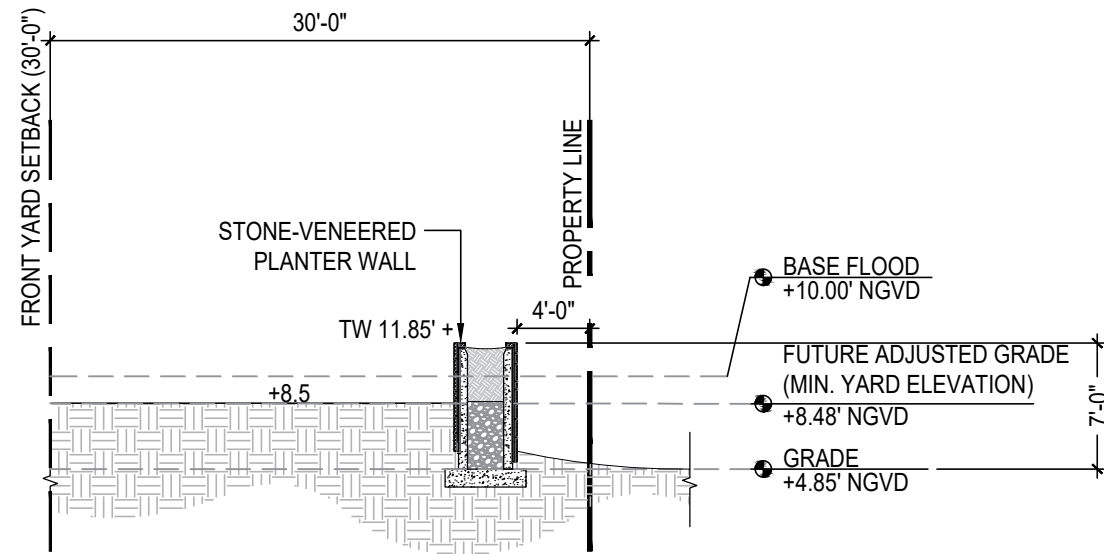
WATER

- GENERAL NOTES**
- ALL SHALLOW RETENTION AREAS (SRA) SHALL BE GRADED GRADUALLY TO THE LOW POINT SPECIFIED ON THE PLAN. THESE AREAS WILL CATCH ON SITE WATER FOR PLANT MATERIAL AS WELL AS CREATE THE FIRST BARRIER FOR INFILTRATION BEFORE ENTERING THE STORM WATER SYSTEM.
  - REPORT ANY DISCREPANCIES FROM SURVEY OR OTHERWISE IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
  - CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
  - ALL SHRUBS AND GROUND COVER AREAS ARE TO BE 2" BELOW FINISHED LEVEL OF ALL ADJACENT HARDSCAPE (TYPICAL).
  - ALL TURF AREAS TO BE FLUSH WITH ADJACENT HARDSCAPE AREAS AND ENSURE NO TRIPPING HAZARDS.
  - ALL STEP TREADS TO SLOPE AWAY FROM STEP FACE AT A MINIMUM OF 1% UNLESS NOTED OTHERWISE.
  - CONTRACTOR TO TEST PERCOLATION IN ALL SRA'S AND NOTIFY LANDSCAPE ARCHITECT OF ANY ISSUES.
  - CONTRACTOR TO MAINTAIN EROSION CONTROL THROUGHOUT THE CONSTRUCTION PROCESS. LANDSCAPE ARCHITECT TO APPROVE SITE CONDITIONS PRIOR TO REMOVAL OF THESE METHODS.
  - ALL DRAIN INLETS, PIPES, MANHOLES, AND SOAKAWAY LOCATIONS TO BE COORDINATED WITH CIVIL ENGINEER. PLAN IS INDICATIVE OF PREFERRED LOCATIONS.
  - NO GRADING SHALL OCCUR BENEATH THE DRIP LINE OF ANY EXISTING TREE TO REMAIN.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SPOT ELEVATIONS IN FIELD. ALL QUANTITIES FOR THE MATERIALS NOTED ON GRADING PLANS SHALL BE VERIFIED BY THE CONTRACTOR BY DETAILED TAKEOFFS TO ENSURE THAT THE QUANTITIES GIVEN ARE SUFFICIENT TO FULFILL THE INTENT OF THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL FIELD VERIFY ALL AS-BUILT DIMENSIONS ON-SITE PRIOR TO BID.
  - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES ON-SITE BEFORE CONSTRUCTION BEGINS.

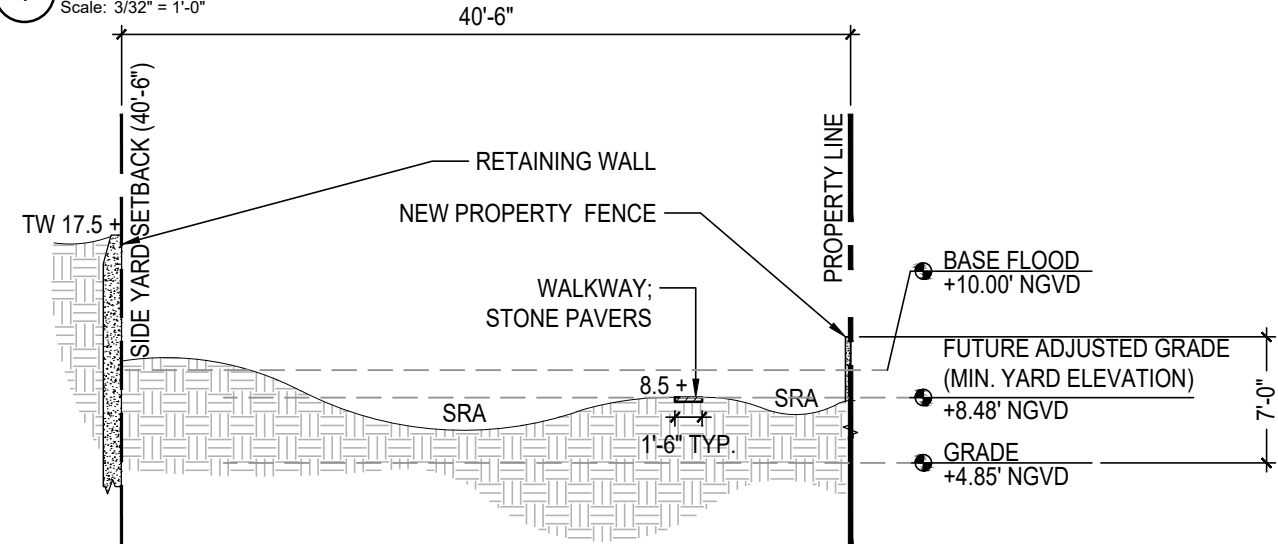




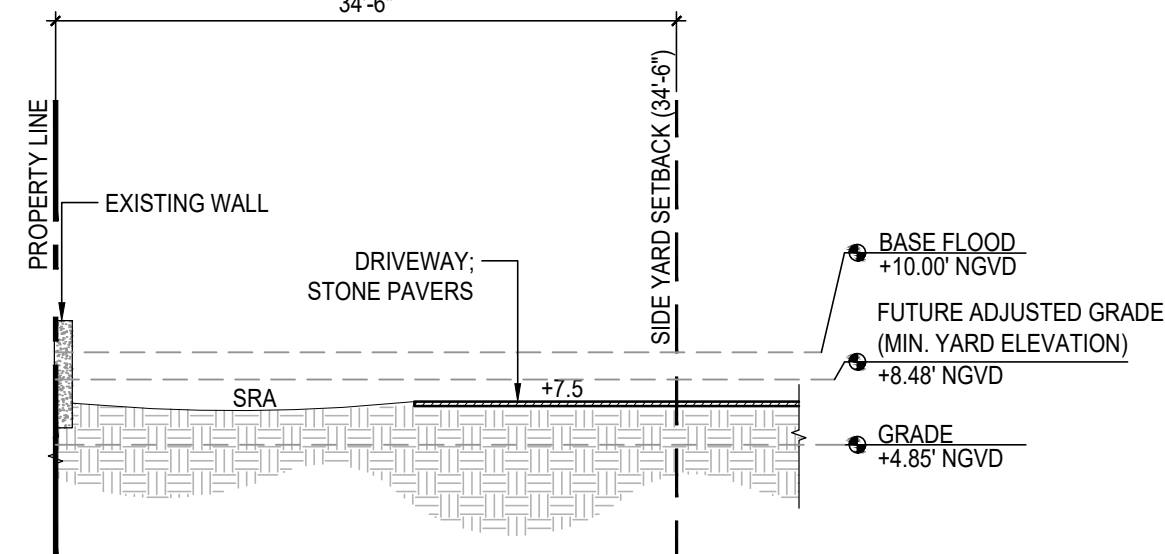
KEY PLAN (N.T.S.)



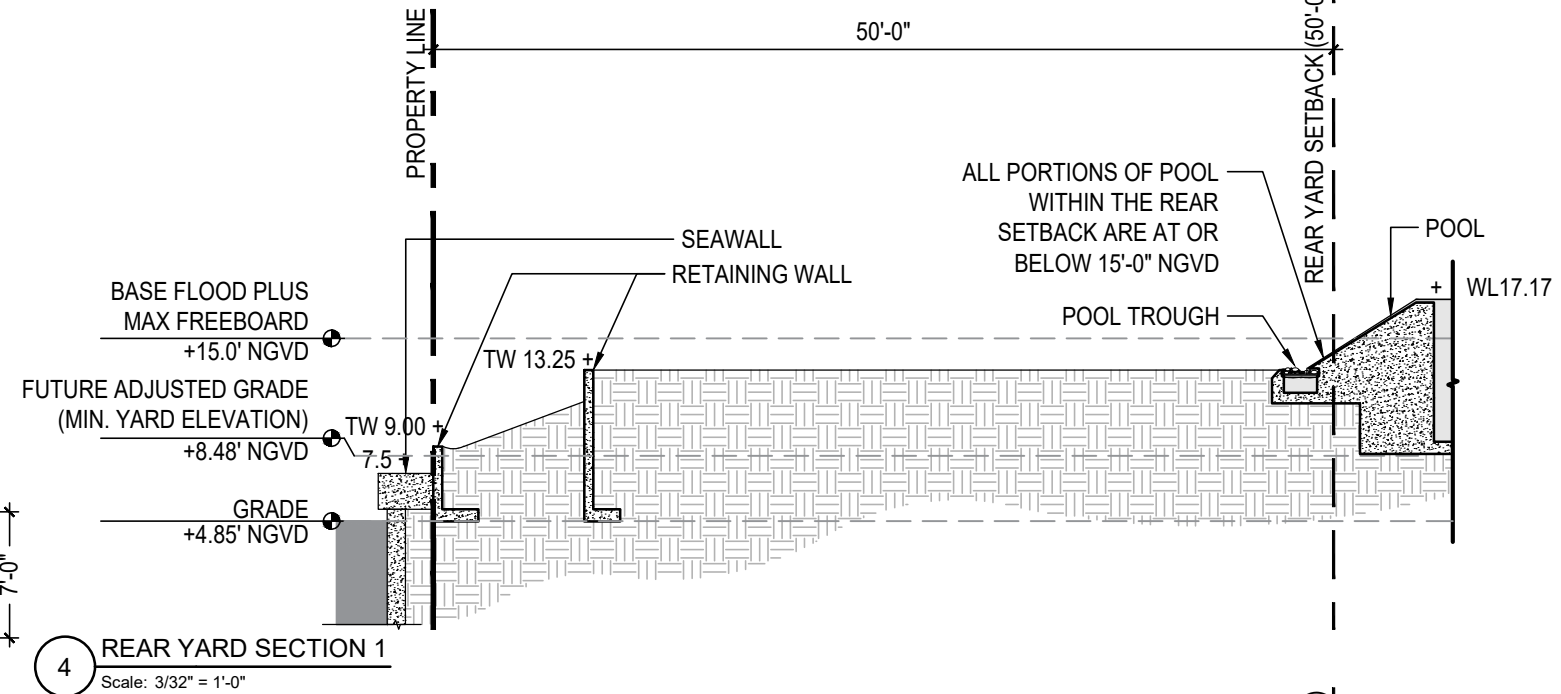
1 FRONT YARD SECTION  
 Scale: 3/32" = 1'-0"



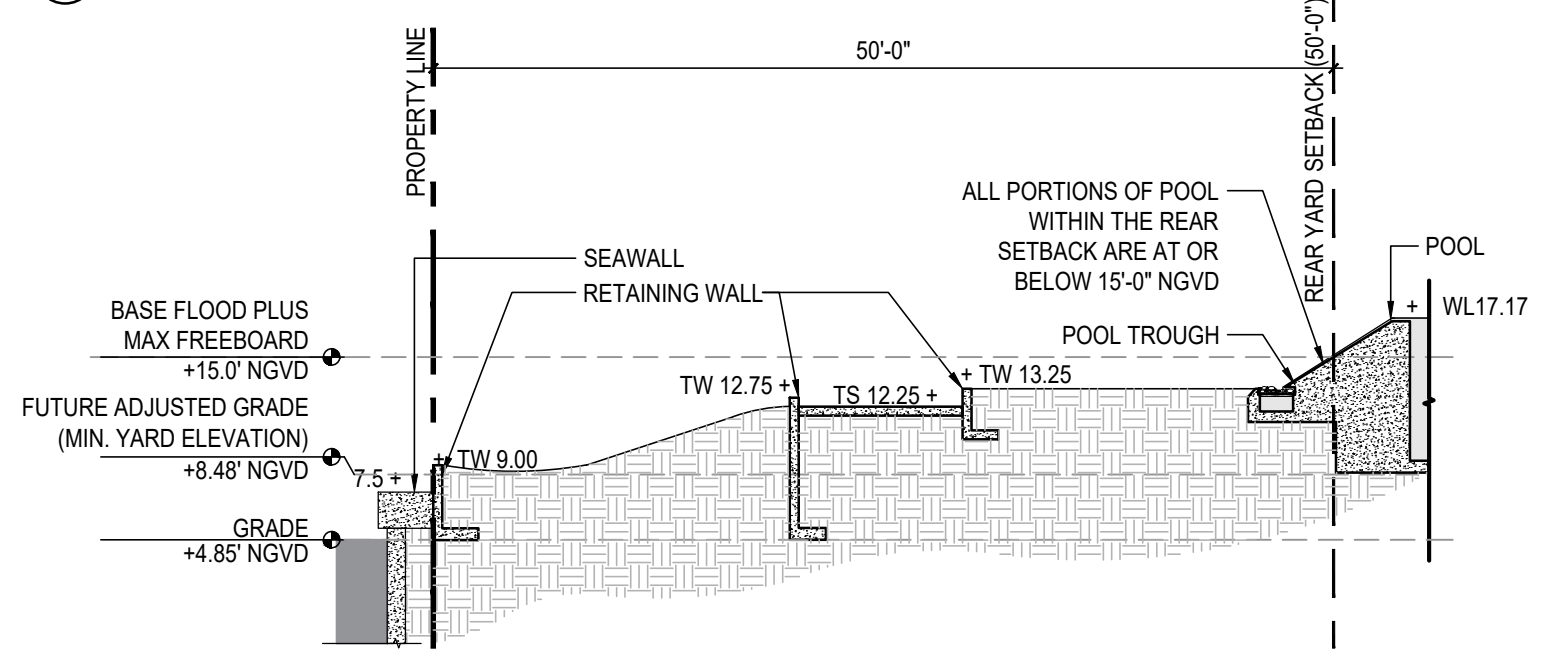
2 SIDE YARD SECTION (NORTH)  
 Scale: 3/32" = 1'-0"



3 SIDE YARD SECTION (SOUTH)  
 Scale: 3/32" = 1'-0"



4 REAR YARD SECTION 1  
 Scale: 3/32" = 1'-0"



5 REAR YARD SECTION 2  
 Scale: 3/32" = 1'-0"

Final Submittal DRB 24-1014

**MILLER GARDEN  
 STAR ISLAND**  
 4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. LA0000992  
 Not valid for construction unless signed in this box.

SHEET TITLE:  
 SECTIONS  
 Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LG.200**





# jungles

## 4-6 Star Island - Proposed Plant List

Star Island, FL  
April 5, 2024

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATION	FL NATIVE
1	CDI	<i>Coccoloba diversifolia</i>	Pigeon Plum	Existing to remain on-site, #610	
2	CWI	<i>Canelia winterana</i>	Wild Cinnamon Bark	Existing to remain on-site, #608, 609	
2	CMA	<i>Chambeyronia macrocarpa</i>	Red Feather Palm	Existing to remain on-site, #613, 629	
2	CRD	<i>Clusia rosea</i>	Pitch Apple	Existing to remain on-site, #612, 628	
1	MFR	<i>Myrcianthes fragrans</i>	Simpson's Stopper	Existing to remain on-site, #616	
4	RRE	<i>Roystonea regia</i>	Royal Palm	Existing to remain on-site, #607, 611, 614, 617	
5	SLI	<i>Sata kentia lukkuensis</i>	Sata kentia Palm	Existing to remain on-site, #615, 618, 619, 626, 627	
1	SMA	<i>Swetenia mahogany</i>	Mahogany	Existing to remain on-site, #630	

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATION	FL NATIVE
1	R-ADI	<i>Adansonia digitata</i>	Baobab	Existing to be relocated on-site, #61047	
6	R-ALA	<i>Amphitecna latifolia</i>	Black Calabash	Existing to be relocated on-site, #602, 603, 632, 633, 635, 636	
1	R-BNO	<i>Bismarckia nobilis</i>	Bismarck Palm	Existing to be relocated on-site, #418	
1	R-BAR	<i>Bulnesia arborea</i>	Verawood	Existing to be relocated on-site, #601	
2	R-BSI	<i>Bursera simaruba</i>	Gumbo Limbo	Existing to be relocated on-site, #61032, 413	
1	R-CMA	<i>Chambeyronia macrocarpa</i>	Red Feather Palm	Existing to be relocated on-site, #606	
1	R-CSP	<i>Chorisia speciosa</i>	Silk Floss Tree	Existing to be relocated on-site, #604	
1	R-CSP	<i>Cycas sp.</i>	Cycad	Existing to be relocated on-site, #61031 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-CGU	<i>Clusia guttifera</i>	Small Leaf Pitch Apple	Existing to be relocated on-site, #61049	
3	R-CRO	<i>Clusia rosea</i>	Pitch Apple	Existing to be relocated on-site, #422, 506, 521	
1	R-CUV	<i>Coccoloba uvifera</i>	Seagrape	Existing to be relocated on-site, #61018	
4	R-CNU	<i>Cocos nucifera</i>	Coconut Palm	Existing to be relocated on-site, #639, 640, 641, 642	
1	R-CES	<i>Conocarpus erectus var. sericeus</i>	Silver Buttonwood	Existing to be relocated on-site, #644	
1	R-DIU	<i>Dyopsis lutescens</i>	Areca	Existing to be relocated on-site, #647	
1	R-FBE	<i>Ficus benghalensis</i>	Banyan	Existing to be relocated on-site, #530	
2	R-HEL	<i>Heterospathe elata</i>	Sagisi Palm	Existing to be relocated on-site, #605, 620	
1	R-KAF	<i>Kigelia africana</i>	Sausage Tree	Existing to be relocated on-site, #61000	
5	R-LLO	<i>Lantana sp.</i>	Latan Palm	Existing to be relocated on-site, #47, 423, 431, 501, 514	
1	R-MFR	<i>Myrcianthes fragrans</i>	Simpson's Stopper	Existing to be relocated on-site, #601	
10	R-PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	Existing to be relocated on-site, #408, 409, 410, 412, 437, 520, 524, 527, 528, 529	
7	R-PDA	<i>Phoenix dactylifera 'Medjool'</i>	Medjool Date Palm	Existing to be relocated on-site, #542, 543, 544, 545, 547, 548, 549	
1	R-PRE	<i>Phoenix reclinata</i>	Senegal Date Palm	Existing to be relocated on-site, #516	
2	R-PPS	<i>Phoenix ssp.</i>	Date Palm clump	Existing to be relocated on-site #61019-61026, 61029	
1	R-PPS	<i>Phoenix ssp.</i>	Date Palm	Existing to be relocated on-site, #61033-61036	
1	R-PPI	<i>Pongamia pinnata</i>	Pongamia Tree	Existing to be relocated on-site, #61040	
1	R-PLL	<i>Pseudobombax ellipticum</i>	Shaving Brush Tree	Existing to be relocated on-site, #61010	
8	R-QVI	<i>Quercus virginiana</i>	Live Oak	Existing to be relocated on-site, #61051, 61016, 61052, 61017, 61009, 61011, 61045-61046, 508	
5	R-RMA	<i>Ravensala madagascariensis</i>	Travelers Palm	Existing to be relocated on-site, #621, 622, 623, 624, 625	
5	R-RRE	<i>Roystonea regia</i>	Royal Palm	Existing to be relocated on-site, #536, 537, 538, 637, 638, 61050	
1	R-SLI	<i>Sata kentia lukkuensis</i>	Sata kentia Palm	Existing to be relocated on-site, #604	
1	R-SMA	<i>Swetenia mahogany</i>	Mahogany	Existing to be relocated on-site, #61044	
1	R-EGR	<i>Encyphalartos gratus</i>	Same	Existing to be relocated on-site, #439 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-EGR	<i>Encyphalartos gratus</i>	Cycad	Existing to be relocated on-site, #61012, 61013, 61014 (Not shown on plan, to be relocated by Landscape Architect)	
3	R-ESS	<i>Phoenix ssp.</i>	Date Palm	Existing to be relocated on-site, #61037-61039	
1	R-PPS	<i>Phoenix ssp.</i>	Date Palm	Existing to be relocated on-site, #61043 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-PRU	<i>Phoenix ssp.</i>	Date Palm	Existing to be relocated on-site, #531 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	Existing to be relocated on-site, #503 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	Existing to be relocated on-site, #515 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	Existing to be relocated on-site, #436 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	Existing to be relocated on-site, #415 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	Existing to be relocated on-site, #411 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	Existing to be relocated on-site, #404 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	Existing to be relocated on-site, #405 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	Existing to be relocated on-site, #406 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-PRU	<i>Plumeria rubra</i>	Frangipani	Existing to be relocated on-site, #416 (Not shown on plan, to be relocated by Landscape Architect)	
1	R-LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	Existing to be relocated on-site, #417 (Not shown on plan, to be relocated by Landscape Architect)	

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATION	FL NATIVE
3	CRO	<i>Clusia rosea</i>	Autograph Tree	Specimen, Character Multi-trunk, 24' min. HT., x 20' SPR., 72' DBH.	Yes
1	SFT	<i>Specimen Flowering Tree</i>	To Be Determined	Asymmetrical Specimen, 25' HT. x 20' SPR., 4" DBH. min.	
4	VSE	<i>Vochelia seyal</i>	Red Trunk Acacia	16' HT. x 10-12' SPR., 4" DBH. min.	

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATION	FL NATIVE
5	ACO	<i>Attalea cohune</i>	American Oil Palm	Matching Specimens, 15' WD., 35' O.A. HT., 6" DBH. min.	
2	HEL	<i>Heterospathe elata</i>	Sagisi Palm	30' HT., to match relocated from on-site, 6" DBH. min.	
2	CNU	<i>Cocos nucifera</i>	Coconut Palm	25'-30' WD., Character Trunk, 6" DBH. min.	
6	DCA	<i>Dyopsis cobadae</i>	Cabada Palm	25-30' HT. x 20' SPR., 21 trunks min., 6" DBH. min.	
11	PAL	<i>Misc. Specimen Large Scale Palm (To Be Determined)</i>	To Be Determined	Specimen, Asymmetrical Character, 30' HT. Heavy, 6" DBH. min.	
14	PAL-2	<i>Misc. Specimen Multi-Trunk Palm</i>	To Be Determined	Specimen, Multi-trunk, 20' HT. 16' SPR., 6" DBH. min.	
2	DPE	<i>Dyopsis pembana</i>	Pemba Palm	30' HT. x 20' HT. SPR., 9 Mature Trunks, 6" DBH. min.	
4	SLI	<i>Sata kentia lukkuensis</i>	Sata kentia Palm	Matching Specimens, 20'-25' HT., 6" DBH. min.	
1	LLO	<i>Lantana loddigesii</i>	Blue Latan Palm	Specimen, 10'-15' HT., 6" DBH. min.	

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATION	FL NATIVE
3	JAR	<i>Jacquinia arborea</i>	Bracelet Wood	8-10' HT., 4" SPR., 4" DBH. min.	Yes
4	PRA	<i>Pimenta racemosa</i>	Bay Rum	20' HT. x 10' SPR., 4" DBH. min. Full to Base	Yes
6	SMR	<i>Suriana maritima</i>	Bay Cedar	5-6' HT., 6" SPR., 4" DBH. min.	Yes
17	MUT			<b>Misc. Native Understory Trees to be selected from list below</b>	
	CWI	<i>Canelia winterana</i>	Wild Cinnamon Bark	14-16' HT. x 10-12' SPR., 4" DBH. min.	Yes
	CDI	<i>Coccoloba diversifolia</i>	Pigeon Plum	14-16' HT. x 10-12' SPR., 4" DBH. min.	Yes
	CES	<i>Conocarpus erectus 'Sericeus'</i>	Silver Buttonwood	14-16' HT. x 10-12' SPR., 4" DBH. min.	Yes
	EFO	<i>Eugenia foetida</i>	Spanish Stopper	14-16' HT. x 10-12' SPR., 4" DBH. min.	Yes
	ERH	<i>Eugenia rhombica</i>	Red Stopper	14-16' HT. x 10-12' SPR., 4" DBH. min.	Yes
	GSA	<i>Guaicum sanctum</i>	Lignum Vitae	14-16' HT. x 10-12' SPR., 4" DBH. min.	Yes
	GDI	<i>Guapira ds color</i>	Bolly	14-16' HT. x 10-12' SPR., 4" DBH. min.	Yes
	GLU	<i>Gymnanthes lucida</i>	Crabwood	14-16' HT. x 10-12' SPR., 4" DBH. min.	Yes
	KFE	<i>Krugiodendron ferreum</i>	Black Ironwood	14-16' HT. x 10-12' SPR., 4" DBH. min.	Yes
	MFR	<i>Myrcianthes fragrans</i>	Simpson's Stopper	14-16' HT. x 10-12' SPR., 4" DBH. min.	Yes

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATION	FL NATIVE
14	KEL	<i>Kerriodora elegans</i>	White Backed Palm	45 gal. 6'X6', Botanics	
12	TDA	<i>Thrinax radiata</i>	Florida Thatch Palm	11'-19' WD. Staggered Heights	
4	PHE	<i>Persea henryana</i>	Same	12' HT., 100 Gal., Botanics	
115	SRE	<i>Sereua repens 'Silver Form'</i>	Silver Saw Palmetto	6'x6'	Yes
42	MUP			<b>Misc. Understory Palms to be selected from list below</b>	
		<i>Rhapis excelsa</i>	Lady Palm	6'-10' HT. x 6' SPR.	
		<i>Rhapis multifida</i>	Finger Palm Palm	6'-10' HT. x 6' SPR.	
		<i>Areca trandra</i>	Wild Areca Palm	6'-10' HT. x 6' SPR., Botanics	
		<i>Oryzophila stauracantha</i>	Rootspine Palm	6'-10' HT. x 6' SPR., Botanics	
		<i>Psychosperma schepferi</i>	Same	6'-10' HT. x 6' SPR.	

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS	FL NATIVE
4	CEL	<i>Codiaeum 'Eleanor Roosevelt'</i>	Croton	15 Gal.	
19	CIC	<i>Chrysobalanus icaco 'Horizontal'</i>	Cocoplum	7 Gal., 24"-36" HT., Full	Yes
165	MLS			<b>Misc. Native Low Understory Shrubs to be selected from list below</b>	
		<i>Heliotropium angiospermum</i>	Scorpion Tail	3-7 Gal., 24"-36" HT., Full	Yes
		<i>Psychotria ligustrifolia</i>	Bahama Wild Coffee	7 Gal.	Yes
		<i>Psychotria nervosa 'Little Psycho'</i>	Dwarf Wild Coffee	7 Gal.	Yes
		<i>Orotan rosmarinoides</i>	Same	7 Gal.	
		<i>Orotan punctatus</i>	Same	7 Gal.	Yes
		<i>Brurfebia nitida</i>	Lady of the Night	7 Gal.	
		<i>Brurfebia manaca</i>	Manaca	7 Gal.	
		<i>Ficus squamosa</i>	Same	3 Gal.	
		<i>Piper sp.</i>	Lanceleaf Piper	3 Gal.	

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS	FL NATIVE
115	MUS			<b>Misc. Native Understory Shrubs to be selected from list below</b>	
	AES	<i>Ardisia escallonioides</i>	Marberry	45 Gal.	Yes
	CWI	<i>Canelia winterana</i>	Wild Cinnamon Bark	45 Gal.	Yes
	ERH	<i>Eugenia rhombica</i>	Red Stopper	45 Gal.	Yes
	ECO	<i>Eugenia confusa</i>	Redberry Stopper	45 Gal.	Yes
	MFR	<i>Myrcianthes fragrans</i>	Simpson Stopper	45 Gal.	Yes
	EFO	<i>Eugenia foetida</i>	Spanish Stopper	45 Gal.	Yes
	QJA	<i>Quadrella jamaicensis</i>	Jamaican Caper	7 Gal.	Yes
	DLA	<i>Drypetes lateriflora</i>	Milk Bark	7 Gal.	Yes

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATION	FL NATIVE
50	MDE	<i>Monstera deliciosa</i>	Swiss Cheese Vine	7 Gal.	
91	PRO	<i>Philodendron 'Rojo Congo'</i>	Red Congo Philodendron	7 Gal.	
35	PPL	<i>Philodendron plowmanii</i>	Same	7 Gal.	
154	PWE	<i>Philodendron 'Weeks Red Hybrid'</i>	Same	7 Gal.	
634	BBU	<i>Philodendron 'Burle Marx'</i>	'Burle Marx' Philodendron	3 Gal. @24" O.C.	
5	ZFL	<i>Zamia floridana</i>	Coontie	3-7 Gal., 24"-36" HT., Full	Yes
12	MSC			<b>Misc. Specimen Cycads to be selected from list below</b>	
		<i>Geratostoma hildebrandtii</i>	Same	6'x6'	
		<i>Geratostoma mexicana</i>	Mexican Horncone	6'x6'	
		<i>Dioid mejiæ</i>	Cycad	6'x6'	
		<i>Dioid spinulosum</i>	Mexican Cycad	6'x6'	
		<i>Encyphalartos ferax</i>	Same	6'x6'	
		<i>Encyphalartos gratus</i>	Same	6'x6'	
		<i>Encyphalartos hildebrandtii</i>	Same	6'x6'	

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATION	FL NATIVE
35	MTA			<b>Misc. Flowering Tropical Understory Accent Plants to be selected from list below</b>	
		<i>Alpinia purpurata</i>	Red Ginger	15 Gal.	
		<i>Alpinia purpurata 'Pink'</i>	Ginger	7 Gal.	
		<i>Heliconia sp.</i>	False Bird of Paradise	15 Gal.	
		<i>Alpinia zerumbet</i>	Shell Ginger	15 Gal.	
		<i>Grunum asiaticum</i>	Giant Crinum Lily	15 Gal.	

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATION	FL NATIVE
14,313	OJA	<i>Ophiopogon japonicus 'nano'</i>	Dwarf Mondo Grass	4" pot. @6" O.C.	
1,395	BRE	<i>Berberis repens</i>	Corp Creper	1 Gal. @12" O.C. Full	
1,073	PGL	<i>Pilea glauca</i>	Same	1" pot. @8" O.C.	
36	PAN	<i>Pitcairnia angustifolia</i>	Pina cartadora	3 Gal. @24" O.C. Full	
3,965	SCO	<i>Seas-onal color TBD</i>	Same	1 Gal. @12" O.C. Full	
2,253	TZE	<i>Tradescantia zebrina</i>	inch Plant	1 Gal. @12" O.C. Full	
2,600	MNF			<b>Misc. Native Fern Matrix to be selected from list below</b>	
		<i>Adiantum capillus-veneris</i>	Venus Hair Fern	3 Gal. @24" O.C.	Yes
		<i>Blechnum esculatum</i>	Swamp Fern	3 Gal. @24" O.C.	Yes
		<i>Dryopteris ludoviciana</i>	Southern Shield Fern	3 Gal. @24" O.C.	Yes
		<i>Neprolepis exaltata</i>	Boston Fern	3 Gal. @24" O.C.	Yes

QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATION	FL NATIVE
173	MVG			<b>Misc. Native Grass Matrix to be selected from list below</b>	
	TFL	<i>Tripsacum floridana</i>	Florida Gama Grass	3 Gal. @24" O.C. Full	Yes
	NWF	<i>Native Wild Flowers TBD</i>	Same	1 Gal. @12" O.C. Full	Yes
		TBD	Other Species TBD	3 Gal. @24" O.C.	Yes

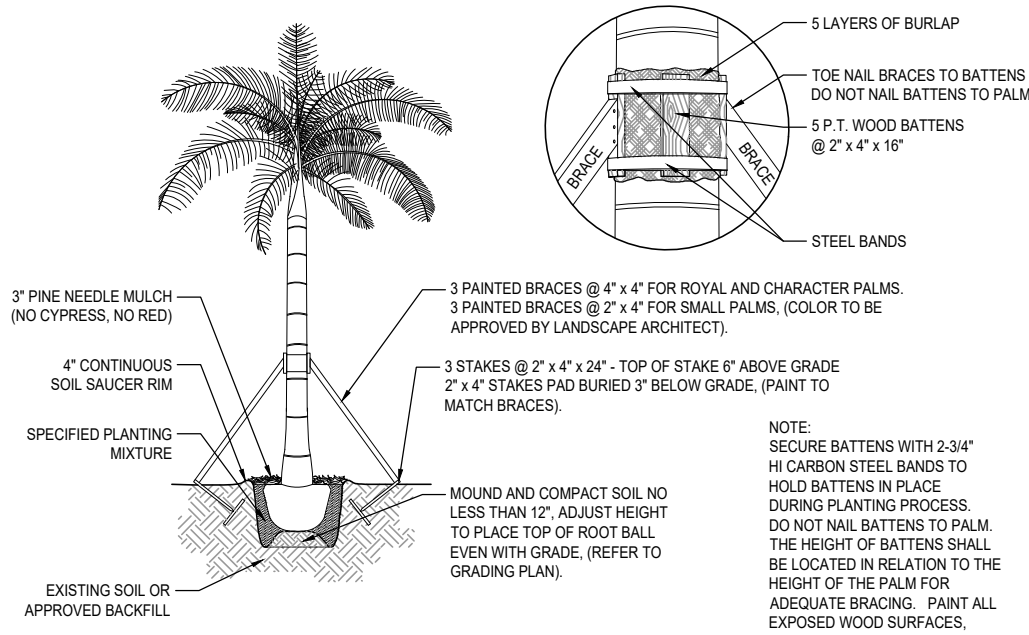
QTY	SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATION	FL NATIVE
10,071	ZI	<i>Zoysia japonica</i>	Zoysia Grass	Solid sod	

- In addition to the above plant list and specifications there is to be an additional \$30,000.00 wholesale plant allowance - Landscape Architect to select accent specimens during nursery visits.
- Landscape contractor to provide photographs of all trees & palms for Landscape Architect's approval with bid.
- Landscape contractor to coordinate installation with Landscape Architect at least 1 month prior to installation date.
- All plants to be laid out on site by Landscape Architect.

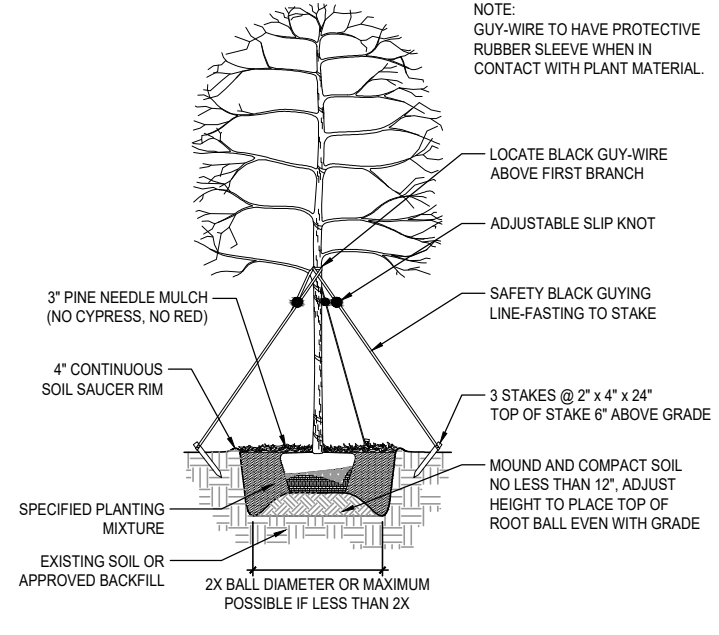
# jungles

## 4-6 Star Island

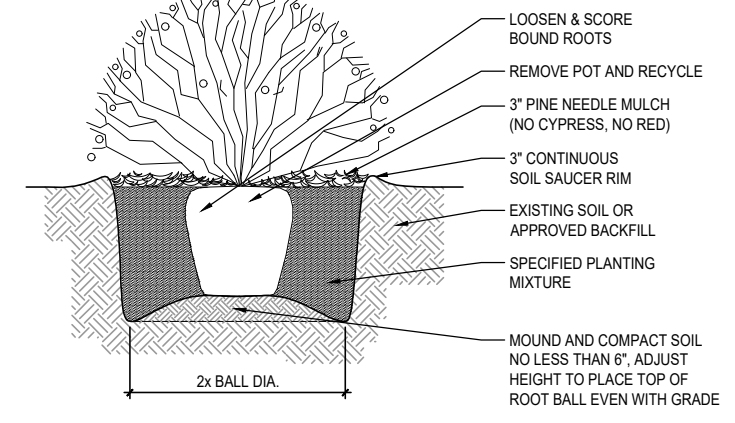
Miami Beach, FL  
April 5, 2024



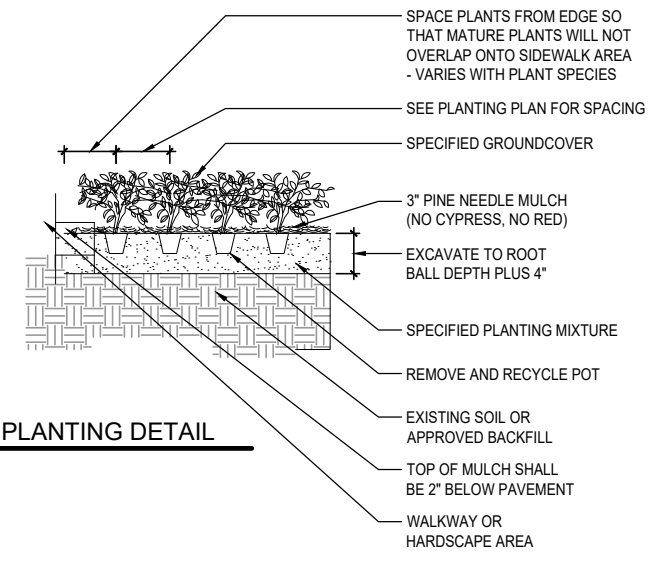
**1 PALM PLANTING AND STAKING DETAIL**  
 SCALE: N.T.S.



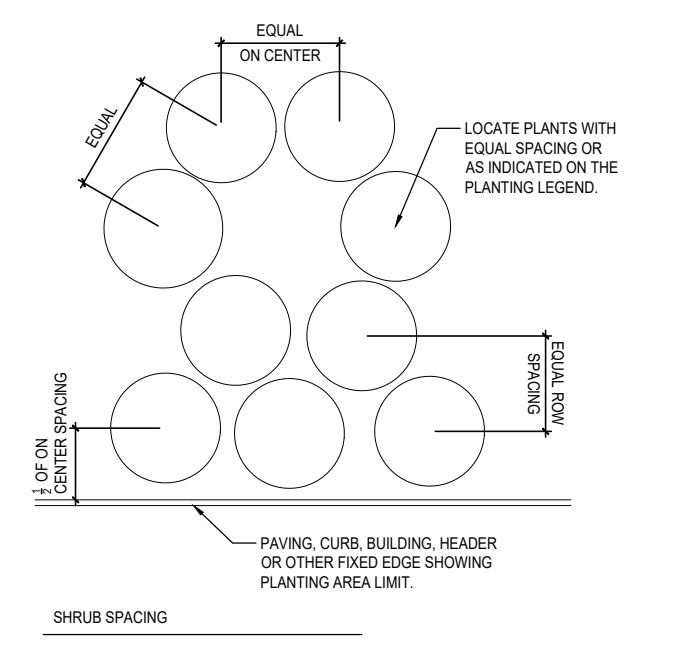
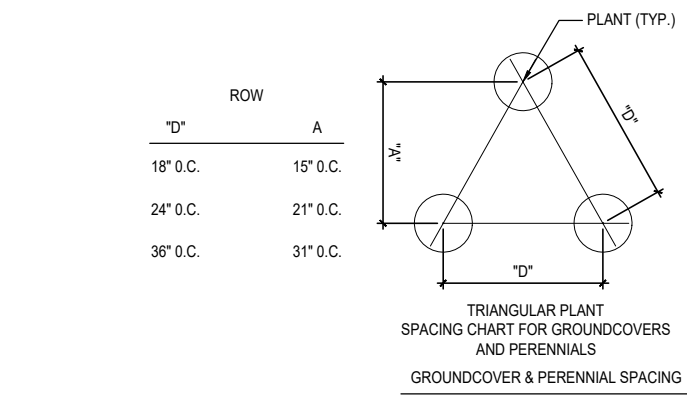
**2 UNDERSTORY TREE PLANTING AND STAKING DETAIL**  
 SCALE: N.T.S.



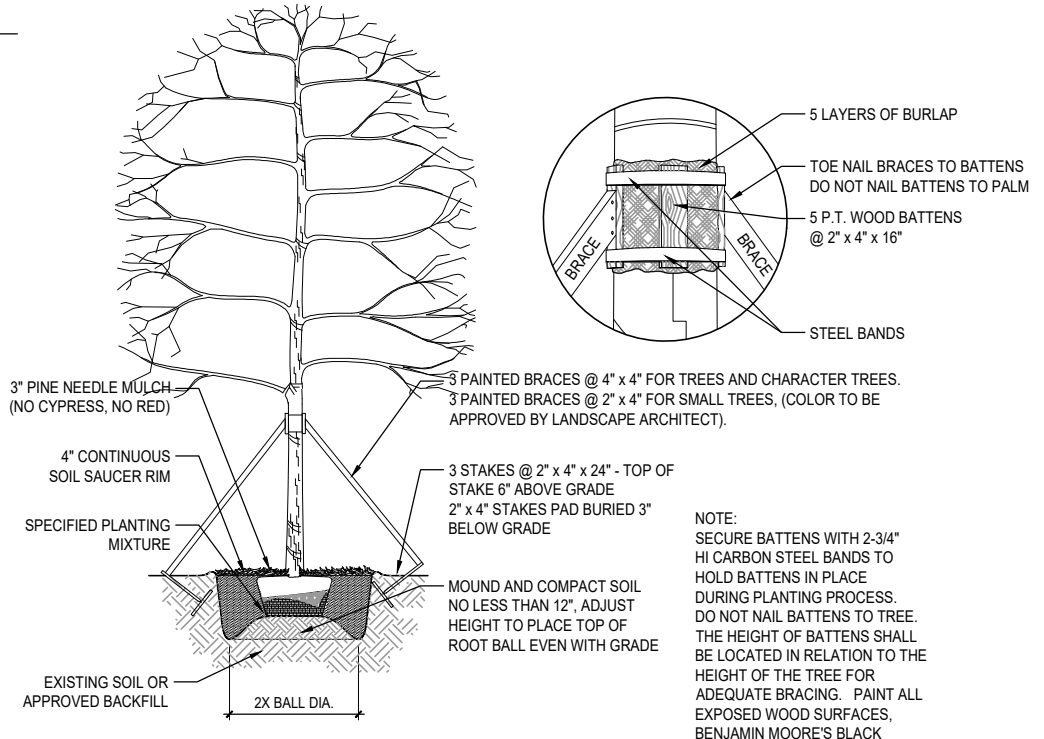
**3 SHRUB PLANTING DETAIL**  
 SCALE: N.T.S.



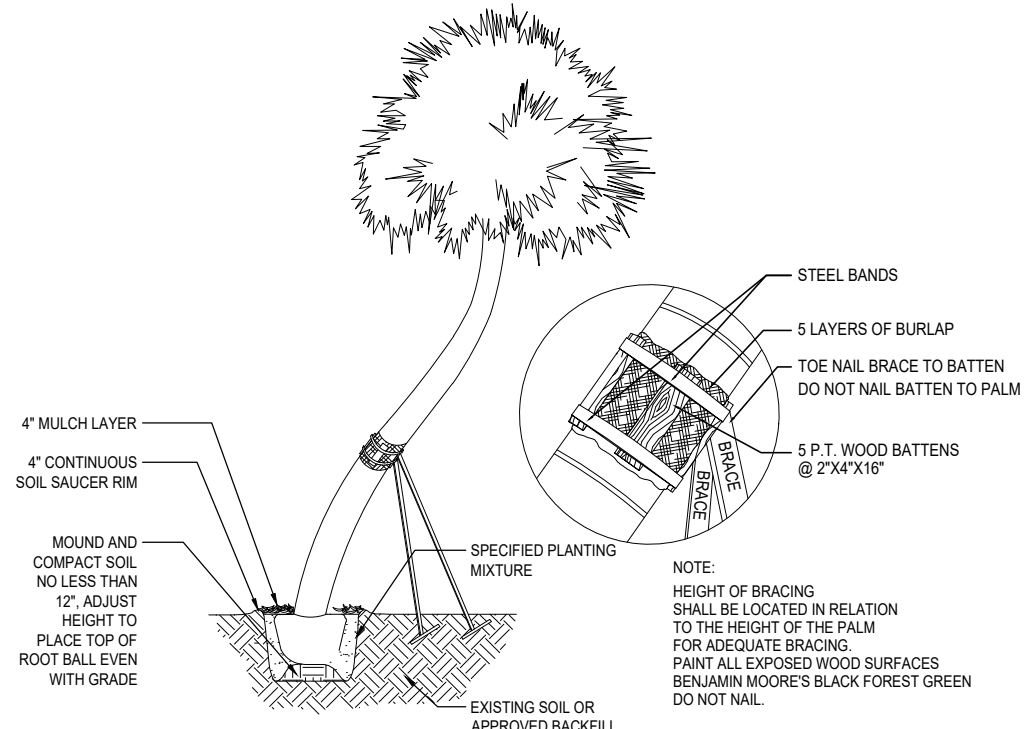
**4 GROUND COVER PLANTING DETAIL**  
 SCALE: N.T.S.



**5 PLANT & SHRUB SPACING DETAIL**  
 SCALE: N.T.S.



**6 TREE PLANTING AND STAKING DETAIL**  
 SCALE: N.T.S.



**7 CHARACTER PALM PLANTING AND STAKING DETAILS**  
 SCALE: N.T.S.

Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
 4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. LAD000599  
 Not valid for construction unless signed in this box  
 SHEET TITLE:  
**PLANTING DETAILS**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024  
 SHEET NUMBER:  
**LP.400**

## GENERAL LANDSCAPE NOTES AND SPECIFICATIONS

- LANDSCAPE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SCOPE OF WORK AS WELL AS THE SITE, DIGGING CONDITIONS, AND ANY OBSTACLES PRIOR TO SUBMITTING A BID.
- LANDSCAPE CONTRACTOR SHALL PROVIDE AN INSTALLATION SCHEDULE TO THE GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.
- LANDSCAPE CONTRACTOR SHOULD VERIFY ALL ESTIMATED QUANTITIES OF MATERIAL SHOWN ON THE LANDSCAPE ARCHITECT'S DRAWINGS PRIOR TO SUBMITTING A BID.
- PLANT PLAN SHALL TAKE PRECEDENCE OVER PLANTING LIST IN CASE OF DISCREPANCIES.
- ALL PLANT MATERIAL SYMBOLS SHOWN ON LANDSCAPE PLANS SHALL BE CONSIDERED DIAGRAMMATIC AND SHOULD BE ADJUSTED IN THE FIELD BY LANDSCAPE CONTRACTOR TO AVOID ALL UTILITIES AND ALL OTHER OBSTRUCTIONS, AFTER CONSULTING THE LANDSCAPE ARCHITECT.
- ALL SIZES SPECIFIED FOR PLANT MATERIAL ON THE PLAN AND PLANT LIST SHALL BE CONSIDERED MINIMUM.
- ALL PLANT MATERIAL MUST MEET OR EXCEED THE SPECIFIED MINIMUM REQUIREMENTS FOR BOTH HEIGHT AND SPREAD. MEASURE ALL INSTALLED PLANTS AND COMPARE AGAINST SPECIFICATIONS.
- ANY SPECIFIC REQUIREMENTS SUCH AS SPECIFIC SHAPE, CHARACTER, NUMBER OF TREE TRUNKS, PLANT SOURCE, TRANSPORTING, AND OR SPECIAL BRACING NOTED ON THE PLAN OR PLANT LIST, WILL REQUIRE APPROVAL AND OR COORDINATION WITH THE LANDSCAPE ARCHITECT.
- NO CHANGE OR SUBSTITUTION SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL MATERIAL SHALL BE SUBJECT TO AVAILABILITY AT TIME OF INSTALLATION. SUBSTITUTIONS MAY BE MADE AFTER CONSULTATION WITH THE LANDSCAPE ARCHITECT
- ALL TREES, PALMS, SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE.
- CHANGES MAY OCCUR DURING THE NORMAL COURSE OF IMPLEMENTATION. VERBAL CHANGE ORDERS WILL NOT BE HONORED. ANY CHANGES MUST BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING AS A CHANGE ORDER TO BE REVIEWED AND APPROVED IN WRITING BY OWNER/CLIENT.
- LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY ALL UNDERGROUND UTILITIES OR STRUCTURES PRIOR TO DIGGING. LANDSCAPE CONTRACTOR SHALL REPAIR ALL DAMAGES TO UNDERGROUND UTILITIES, AND OR CONSTRUCTION CAUSED BY LANDSCAPE INSTALLATION, AT NO COST TO THE OWNER.
- LANDSCAPE CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, THE REMOVAL OF ALL BUILDING CONSTRUCTION DEBRIS AND FOREIGN MATERIAL PRIOR TO INSTALLATION OF ANY PLANT MATERIAL.
- SITE PREPARATION SHOULD INCLUDE THE ERADICATION AND REMOVAL OF ANY WEEDS OR GRASS, REMOVAL AND CLEAN UP OF ANY DEAD MATERIAL AND ROUGH AND FINISH GRADING PER SPECS AND OR LANDSCAPE PLANS.
- FOR PLANT MATERIAL DESIGNATED TO BE REMOVED, THE ENTIRE ROOT SYSTEM SHALL BE DUG AND REMOVED FROM THE SITE.
- ALL PLANTING AREAS SHALL BE EXCAVATED TO A MINIMUM OF 6" FOR GROUNDCOVERS AND MORE THAN 12" FOR SHRUBS, TREES, AND PALMS, AND SHOULD RECEIVE PLANTING SOIL TYPE 1(REFER TO SOIL SPECIFICATIONS LP. 402) (COARSE SAND 70%, FLORIDA PEAT 20%, PINE BARK 10% FINAL TESTED ORGANIC MATTER BETWEEN 1.5% & 2.5% (BY DRY WEIGHT). SUBMIT ALL TESTING DATA FOR APPROVAL BY LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER. FLORIDA DEPARTMENT OF AGRICULTURE GRADES AND STANDARDS, PARTS I & II, 1975, RESPECTIVELY.
- ALL TREES SHALL BE STAKED IN A GOOD WORKMANLIKE MANNER. NO NAIL STAKING PERMITTED. (REFER TO BRACING NOTES AND PLANTING DETAILS)
- AFTER REMOVAL OR RELOCATION OF EXISTING TREES AND PALMS, ALL REMAINING HOLES SHALL BE BACK FILLED AROUND AND UNDER ROOT BALL WITH WASHED BEACH SAND. SOD DISTURBED AREA, IF REQUIRED. ALL SHRUB BEDS TO BE INSTALLED WITH WASHED BEACH SAND. (SEE SPEC)
- ALL TREES, PALMS, SHRUBS AND GROUND COVER PLANTS SHALL BE FERTILIZED AT INSTALLATION, WITH LONG LASTING FERTILIZER, ACCORDING TO MANUFACTURERS' RECOMMENDATIONS AND BASED ON EXISTING SOIL TEST.
- ALL EXISTING PLANT MATERIAL TO REMAIN, SHALL BE PROTECTED DURING ALL CONSTRUCTION PHASES. ANY PLANT MATERIAL SCARRED OR DESTROYED DESIGNATED TO REMAIN MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH SIMILAR SPECIES SIZE AND QUALITY.
- ALL TREES ON SOD AREA SHALL RECEIVE A HARDWOOD / PINE NEEDLE MULCH MIX RING 2' IN DIAMETER TYPICAL. MULCH TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE AND/OR INSTALLATION.
- ALL PLANTING AREAS SHALL BE MULCHED WITH PINE STRAW MULCH TO A MINIMUM OF 3"; WITH THE EXCEPTION OF BEACH PLANTING. DO NOT USE CYPRESS OR RED MULCH.
- ALL TREES SHALL HAVE 2" CALIPER AT D.B.H. MINIMUM FOR A 10' HEIGHT TREE, UNLESS NOTED OTHERWISE.
- ALL 1 GALLON MATERIAL SHALL HAVE 12" SPREAD MINIMUM, ALL 3 GALLON MATERIAL TO HAVE 20-24" SPREAD MINIMUM.
- ALL PLANTING AREAS WITHIN THE LIMITS OF WORK SHALL RECEIVE 100% COVERAGE BY AUTOMATIC IRRIGATION SYSTEM (DRIP PREFERRED) UNLESS OTHERWISE DIRECTED BY OWNER. SEE IRRIGATION PLANS FOR ADDITIONAL SPECIFICATIONS.
- LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER APPROPRIATE CONTRACTORS.
- THE LANDSCAPE CONTRACTOR SHALL AT ALL TIMES KEEP THE JOB SITE CLEAN AND FREE FROM ACCUMULATION OF WASTE MATERIAL, DEBRIS, AND RUBBISH.
- LANDSCAPE PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL CODES.
- ON-SITE LAYOUT OF PLANT MATERIAL SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT AT THE TIME OF INSTALLATION.
- ALL PLANTS, MATERIALS, WORKMANSHIP, AND INVOICE APPROVAL ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- CONTRACTOR TO FLAG ALL PROPOSED TREE AND PALM LOCATIONS FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.
- LANDSCAPE ARCHITECT TO APPROVE ALL SHRUB AND GROUNDCOVER PLANTING LOCATION AND LAYOUT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PROVIDE DIGITAL PHOTOGRAPHIC DOCUMENTATION DURING INSTALLATION FOR LANDSCAPE ARCHITECT'S REVIEW, WEEKLY.
- LANDSCAPE CONTRACTOR TO INSURE ALL PLANT MATERIAL IS INSTALLED AT THE CORRECT ELEVATION, REFER TO GRADING PLAN.
- THE LANDSCAPE CONTRACTOR SHALL MAINTAIN OR COORDINATE WITH THE IRRIGATION CONTRACTOR AND LANDSCAPING MAINTENANCE SERVICES ALL PLANTING INCLUDING WATERING, MOWING, MULCHING, WEED, AND PEST CONTROL UNTIL FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT AND OWNER.
- THE AWARDED LANDSCAPE CONTRACTOR SHALL SUBMIT A PROPOSED BID / CONTRACT WITH UNIT COST PRICING FOR ALL PLANT MATERIAL INCLUDING (WARRANTY, LABOR, TRANSPORTATION, RELOCATION, SITE MAINTENANCE AND PREPARATION) AS PER THE LANDSCAPE ARCHITECT'S SPECIFICATIONS AND OR PLANTING PLANS.
- THE LANDSCAPE CONTRACTOR'S CONTRACT SHALL ACKNOWLEDGE ALL TERMS AND CONDITIONS SET FORTH UNDER THESE GENERAL LANDSCAPE NOTES AND SPECIFICATIONS.
- THESE DRAWINGS, DOCUMENTS, AND ALL CONTENTS ARE THE PROPERTY OF RAYMOND JUNGLES, INC. ALL RIGHTS ARE RESERVED. UNAUTHORIZED USE OR PRODUCTION, IN PART OR WHOLE, FOR ANY PURPOSE IS UNLAWFUL AND PROHIBITED EXCEPT BY EXPRESS WRITTEN CONSENT.
- IN ADDITION TO THE ABOVE PLANT LIST AND SPECIFICATIONS THERE IS TO BE AN ADDITIONAL \$20,000.00 WHOLESALE PLANT ALLOWANCE - LANDSCAPE ARCHITECT TO SELECT ACCENT SPECIMENS DURING NURSERY VISITS. LANDSCAPE ARCHITECT TO LAY OUT ACCENT PLANTS IN THE FIELD.
- FINAL GRADES SHALL BE APPROVED IN THE FIELD BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.

## GENERAL TREE BRACING NOTES AND SPECIFICATIONS:

### TREES AND PALMS GREATER THAN 6" DBH TO BE BRACED WITH PROPS:

- CHOOSE THE CORRECT SIZE, LENGTH, AND NUMBER OF PROPS TO BE USED (PRESSURE TREATED (PT), TIMBER BAMBOO (GUADUA ANGUSTIFOLIA) 3" DIA.).
- ALL (PRESSURE TREATED (PT) 2"x4", 4"x4"). STAKES SHALL BE PAINTED AS SPECIFIED BY THE LANDSCAPE ARCHITECT. WRAP AT LEAST 5 LAYERS OF BURLAP AROUND TRUNK OF THE PALM AT LEAST 4 INCHES WIDER THAN THE BATTENS BEING USED. BATTENS SHOULD BE MOUNTED AT A POINT 1/3 OF THE DISTANCE FROM GROUND TO THE CLEAR TRUNK OF THE TREE OR PALM, BUT NOT LESS THAN 4 FEET, WHICHEVER IS GREATER. ALL PAINT COLORS TO BE APPROVED BY LANDSCAPE ARCHITECT.
- SELECT THE PROPER LENGTH AND SIZE OF BATTENS (PT 2"x4"x12"-16")
- USE THE SAME NUMBER OF BATTENS AS PROPS BEING USED.
- PLACE THE BATTENS VERTICALLY AND EVENLY SPACED AGAINST THE BURLAP.
- SECURE THE BATTENS IN PLACE WITH METAL OR PLASTIC BANDING STRAPS. DO NOT NAIL TREE.
- WEDGE LOWER END OF PROP INTO SOIL AND SECURE WITH A 2"x4"x30" STAKE. PROPS SHOULD BE INSTALLED AT A 30 TO 40 DEGREE ANGLE FROM THE BATTENS AND OF SUFFICIENT LENGTH TO REACH THE GROUND. NOTE: ON STRAIGHT TREES OR PALMS OR TREES, SPACE PROPS EQUAL DISTANCE AROUND TREE OR PALM ON CURVED (CHARACTER) PALMS OR TREES, SPACE PROPS AGAINST THE FRONT OF THE CURVE OF THE PALM.
- CUT A SMOOTH ANGLE AT THE END OF THE PROPS. ALIGN WITH AND NAIL INTO BATTENS. DO NOT PENETRATE TREE OR PALM WITH NAILS.
- IF IT APPEARS THAT ADDITIONAL CONSTRUCTION WORK WILL TAKE PLACE NEAR TO OR IN THE VICINITY OF THE NEWLY BRACED TREES OR PALMS, THEN PROPS ARE TO BE CLEARLY LABELED WITH THE STATEMENT, "DO NOT REMOVE."
- PROPS ARE NOT TO BE REMOVED UNTIL APPROVED BY THE LANDSCAPE CONTRACTOR.

### TREES AND PALMS LESS THAN 6" DBH TO BE BRACED BY GUYING:

- CHOOSE THE CORRECT SIZE AND NUMBER OF STAKES AND SIZE OF HOSE AND WIRE. GUYING SHALL BE COMPLETED WITHIN 48 HOURS OF PLANTING THE TREE.
- CUT LENGTHS OF STAKING HOSE TO EXTEND 2 INCHES PAST TREE TRUNK WHEN WRAPPING AROUND.
- SPACE STAKES EVENLY ON OUTSIDE OF WATER RING AND DRIVE EACH FIRMLY INTO THE GROUND. STAKES SHOULD BE DRIVEN AT A 30 DEGREE ANGLE WITH THE POINT OF THE STAKE TOWARD THE TREE UNTIL 4 TO 5 INCHES ARE LEFT SHOWING.
- PLACE THE HOSE AROUND THE TRUNK JUST ABOVE THE LOWEST BRANCH.
- THREAD THE WIRE THROUGH THE HOSE AND PAST THE STAKE, ALLOWING APPROXIMATELY 2 FEET OF EACH OF THE TWO ENDS BEYOND THE STAKE BEFORE CUTTING THE WIRE.
- TWIST WIRE AT RUBBER HOSE TO KEEP IT IN PLACE.
- PULL WIRE DOWN AND WIND BOTH ENDS AROUND STAKE TWICE. TWIST WIRE BACK ONTO ITSELF TO SECURE IT BEFORE CUTTING OFF THE EXCESS.
- THE ABOVE PROCEDURES ARE TO BE FOLLOWED FOR EACH STAKE, KEEPING THE TREE STRAIGHT AT ALL TIMES.
- THERE SHOULD BE A 1 TO 3 INCH SWAY IN THE TREE (THE WIRES SHOULD NOT BE PULLED TIGHT) FOR BEST ESTABLISHMENT.
- FLAG THE GUY WIRES WITH SURVEYOR'S FLAGGING OR APPROVED EQUAL FOR SAFETY.
- ANY WIRES ARE NOT TO BE REMOVED UNTIL APPROVED BY LANDSCAPE ARCHITECT.

## SHOP DRAWINGS / SUBMITTALS AND MOCK-UPS

- LANDSCAPE: SUBMIT PHOTOGRAPHS OF ALL MATERIALS WITH SCALE REFERENCE. INDICATE GROWER'S LOCATION AND ANY LEAD TIME FOR ROOT PRUNING OR PREPARATION.

Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
 4-6 Star Island Drive, Miami Beach, FL 33139

### REVISIONS:

No.	Date	Description

No. Date Description

SEAL:

LANDSCAPE ARCHITECT:



FLORIDA LICENSE NO. LA00000000  
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SHEET TITLE:

**PLANTING NOTES AND SPECIFICATIONS**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:


**LP.401**



Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

SEAL:  
LANDSCAPE ARCHITECT:  
  
FLORIDA LICENSE NO. LA0000592  
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SHEET TITLE:  
**LANDSCAPE MOOD BOARD**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024


SHEET NUMBER:  
**LM.100**



Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

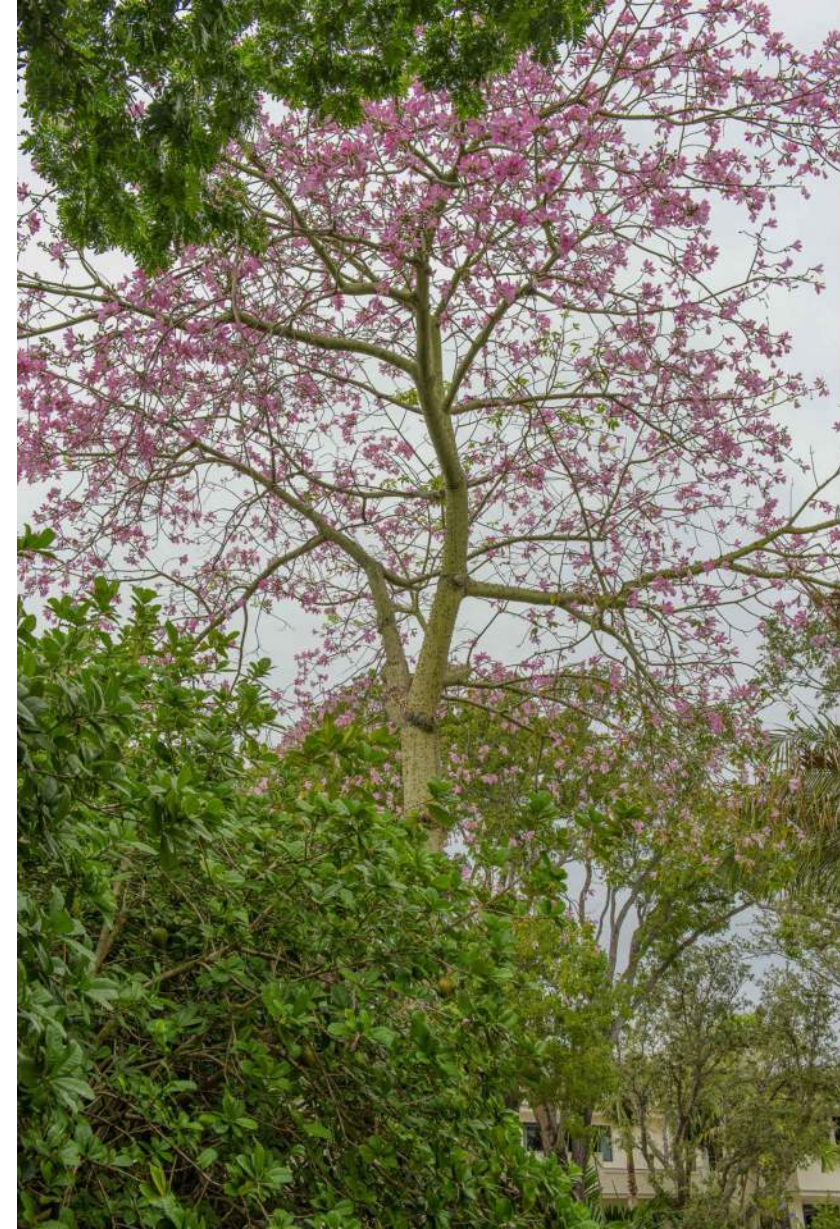
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LANDSCAPE ARCHITECT:  
  
FLORIDA LICENSE NO. LA2000592  
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SHEET TITLE:  
**LANDSCAPE MOOD BOARD**


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Drawn By: J.L. HJ  
Checked By: BG  
Date: 04-19-2024

SHEET NUMBER:  
**LM.101**



REVISIONS:

No.	Date	Description

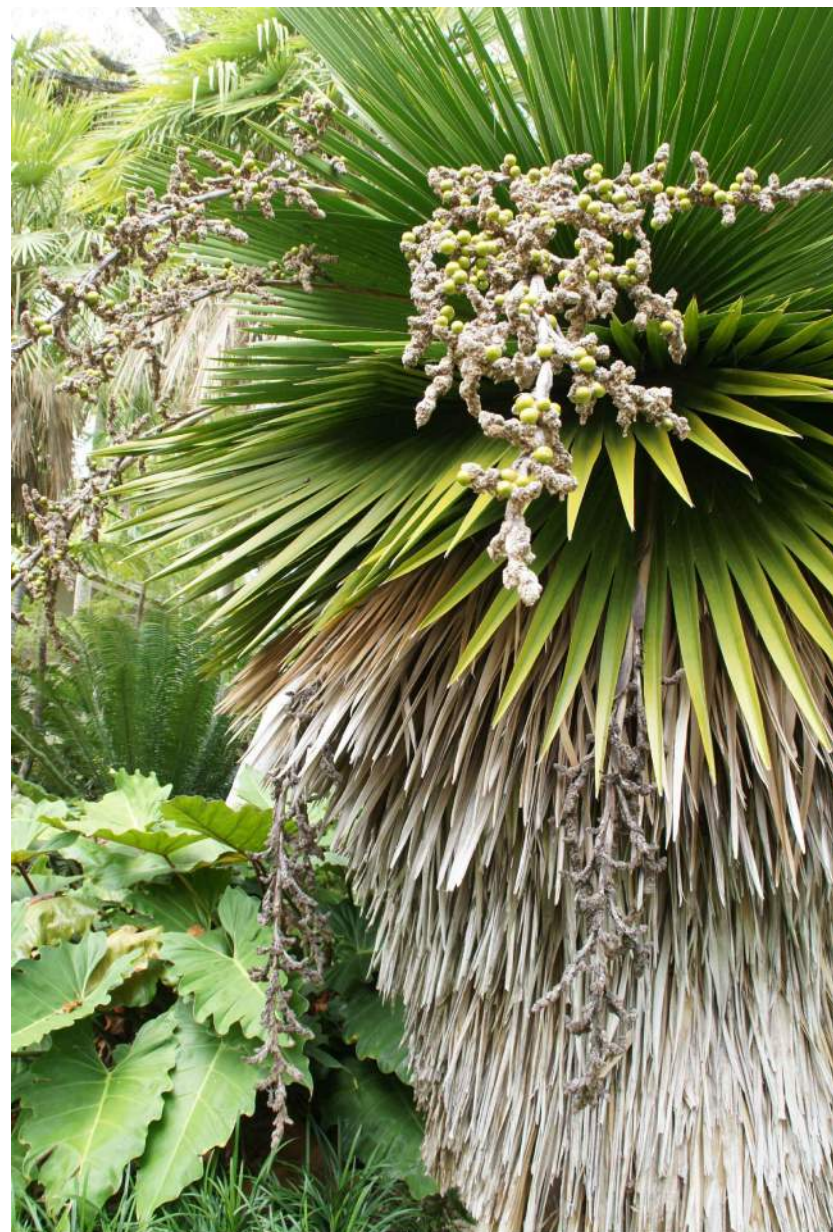
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 FLORIDA LICENSE NO. LA000559  
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SHEET TITLE:  
**LANDSCAPE MOOD BOARD**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024


SHEET NUMBER:  
**LM.102**





REVISIONS:

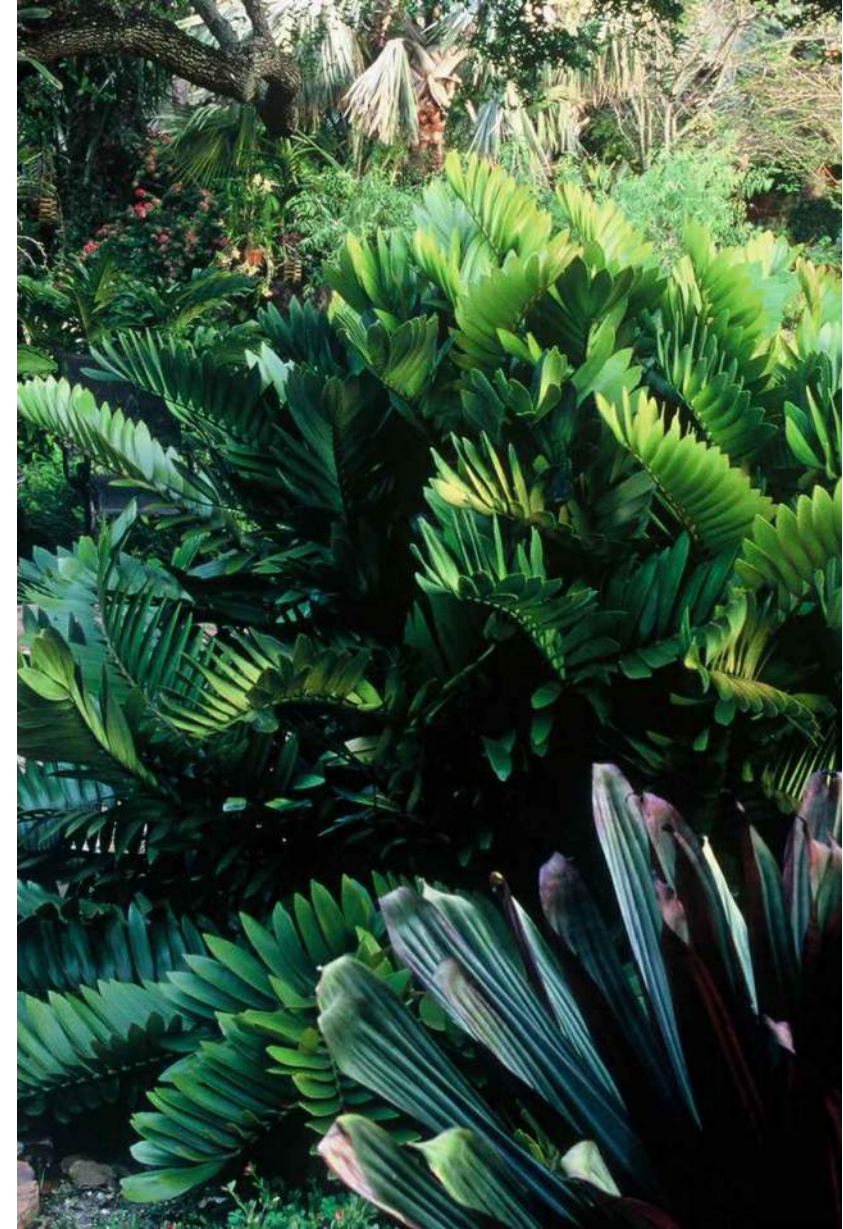
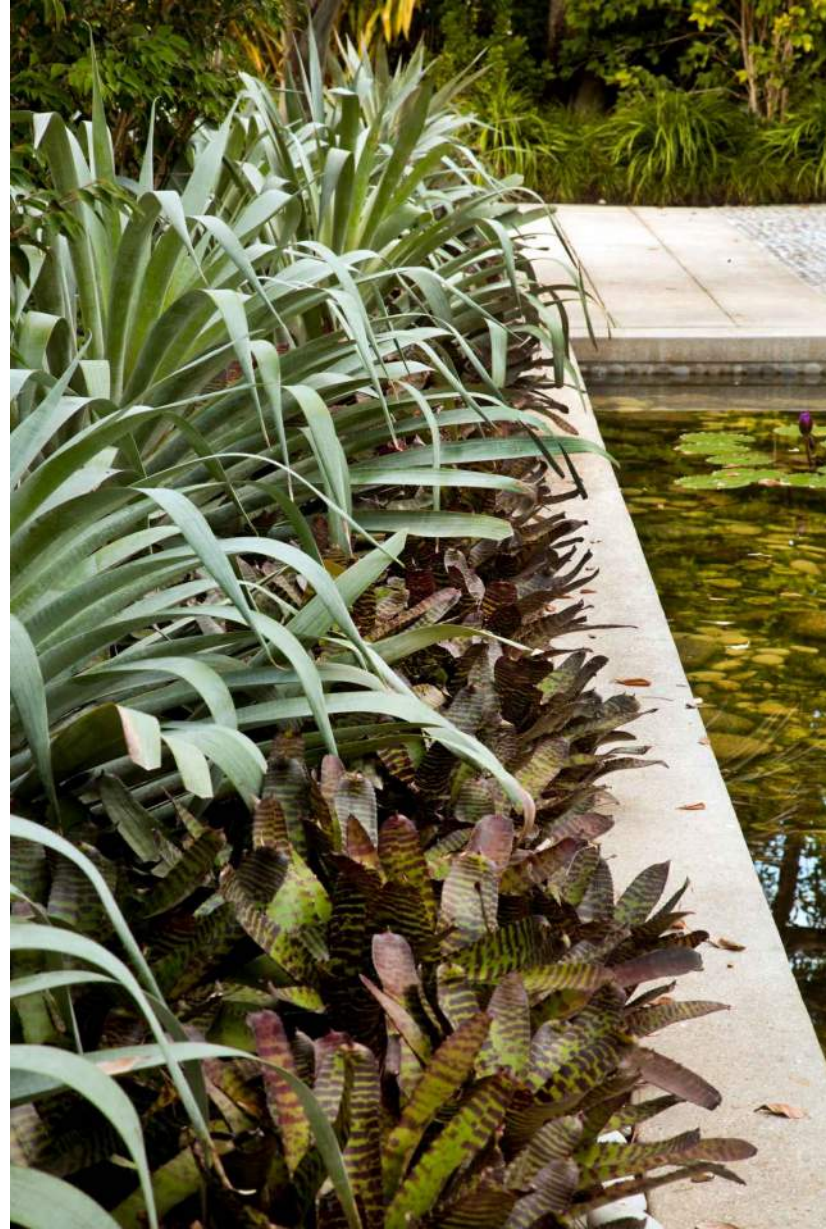
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 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. LA000059  
Not valid for construction unless signed in this box.

SHEET TITLE:  
**LANDSCAPE  
 MOOD BOARD**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024


SHEET NUMBER:  
**LM.104**



Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
 4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. LA000059  
Not valid for construction unless signed in this box.

SHEET TITLE:  
**LANDSCAPE MOOD BOARD**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LM.105**





Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
 4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

LANDSCAPE ARCHITECT:



SHEET TITLE:  
**LANDSCAPE  
 MOOD BOARD**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024


SHEET NUMBER:  
**LM.107**



Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
 4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. LA000059  
Not valid for construction unless signed in this box.

SHEET TITLE:  
**LANDSCAPE MOOD BOARD**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LM.108**






Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
 4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

SEAL:

LANDSCAPE ARCHITECT:



FLORIDA LICENSE NO.  
LA000059

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SHEET TITLE:  
**LANDSCAPE  
 MOOD BOARD**

Scale: AS NOTED  
 Drawn By: JI, HJ  
 Checked By: BG  
 Date: 04-19-2024


SHEET NUMBER:  
**LM.110**



Final Submittal DRB 24-1014  
**MILLER GARDEN  
STAR ISLAND**  
4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

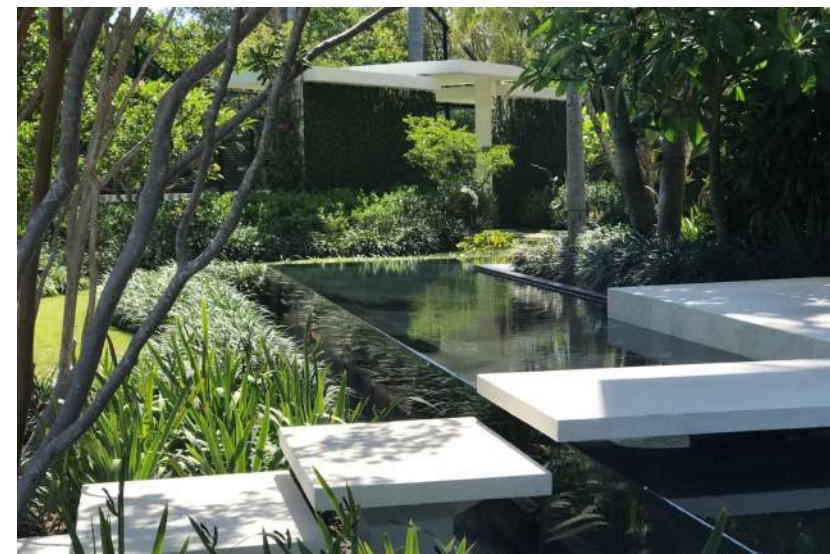
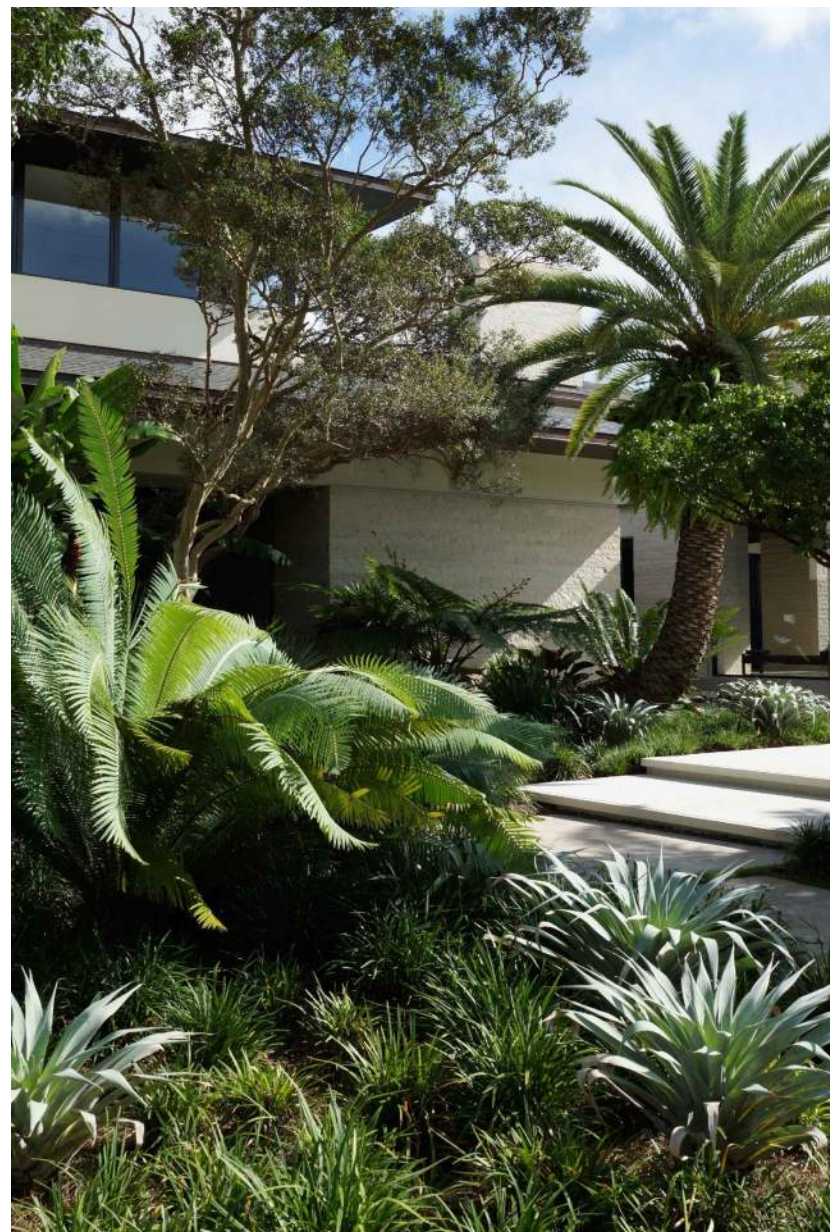
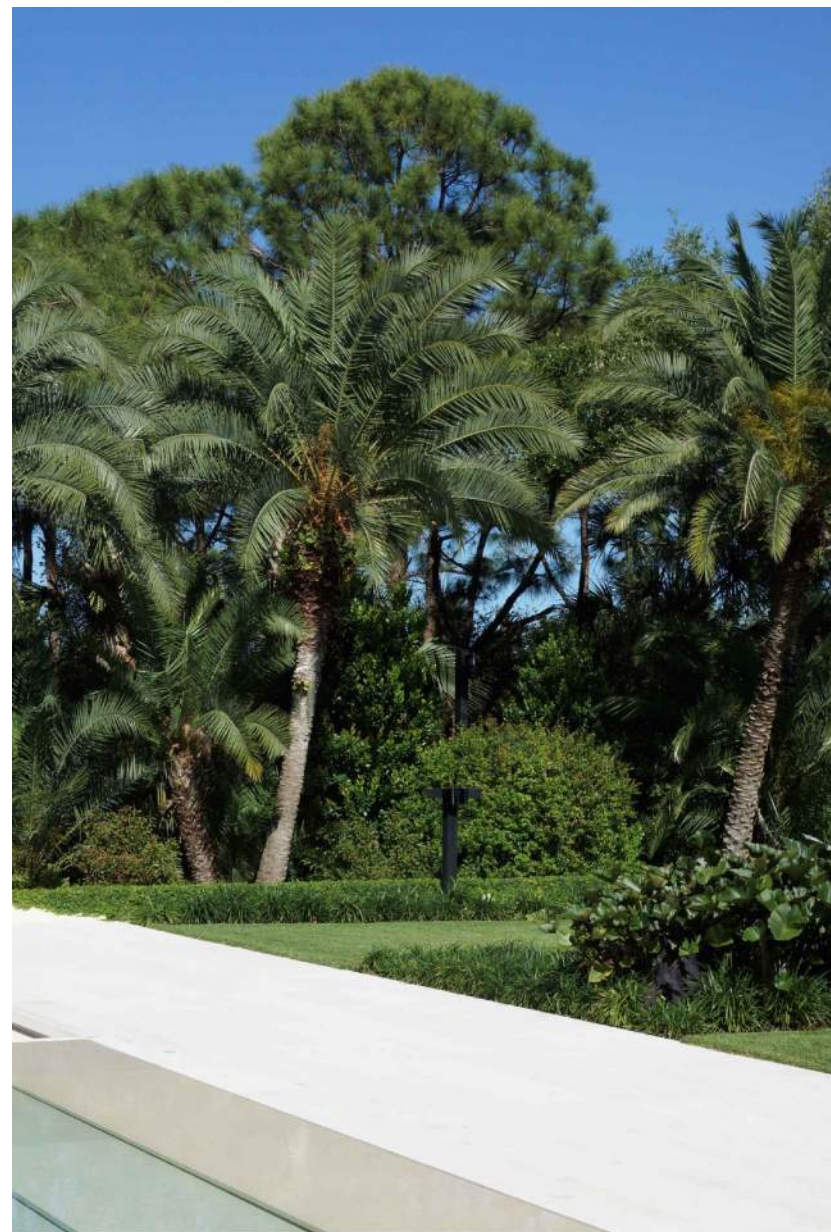
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LANDSCAPE ARCHITECT:  
  
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Not valid for construction unless signed in this box

SHEET TITLE:  
**LANDSCAPE  
MOOD BOARD**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024

SHEET NUMBER:  
**LM.111**



Final Submittal DRB 24-1014

**MILLER GARDEN  
STAR ISLAND**

4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

SEAL:



FLORIDA LICENSE NO.  
LAD000552

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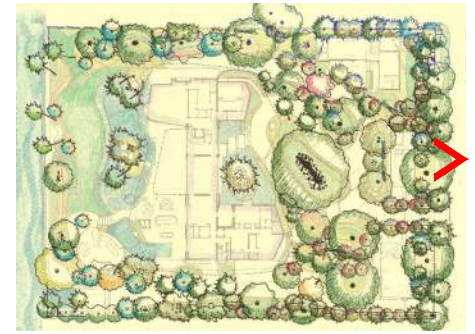
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**LANDSCAPE  
MOOD BOARD**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024

SHEET NUMBER:

**LM.112**



KEY PLAN (N.T.S.)



REVISIONS:

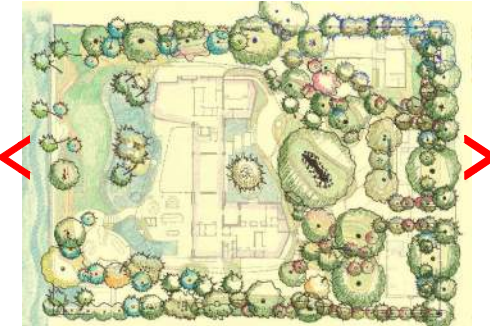
No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. LA000059  
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SHEET TITLE:  
**LANDSCAPE RENDERING**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LR.100**



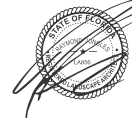
KEY PLAN (N.T.S.)



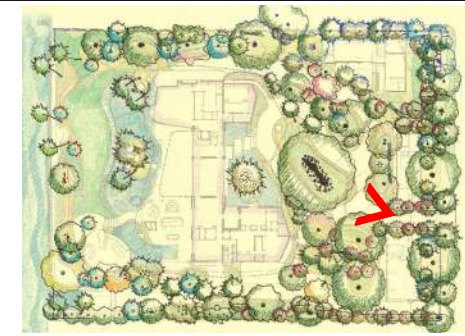
**jungles**  
**RAYMOND JUNGLES INC**  
 Landscape Architect FAS/IA  
 2964 Aviation Ave., Miami, FL 33133  
 PH 305.858.6777  
 www.raymondjungles.com  
 PROJECT NO. : 22065

Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
 4-6 Star Island Drive, Miami Beach, FL 33139

No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. LA000059  
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SHEET TITLE:  
**LANDSCAPE RENDERING**  
 Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024  
 SHEET NUMBER:




KEY PLAN (N.T.S.)



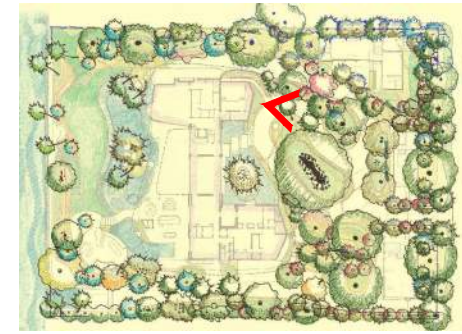
REVISIONS:

No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. L14000559  
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SHEET TITLE:  
**LANDSCAPE RENDERING**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024



KEY PLAN (N.T.S.)



Final Submittal DRB 24-1014

**MILLER GARDEN  
 STAR ISLAND**

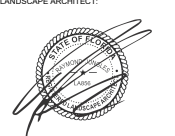
4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

SEAL:

LANDSCAPE ARCHITECT:



FLORIDA LICENSE NO. LAD000059

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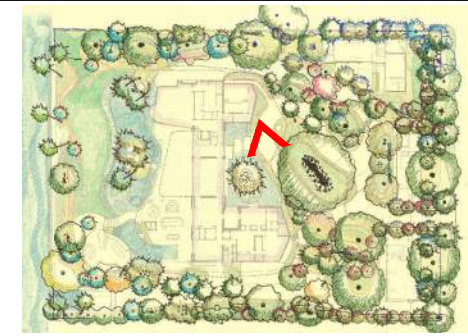
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**LANDSCAPE  
 RENDERING**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:

**LR.103**



KEY PLAN (N.T.S.)



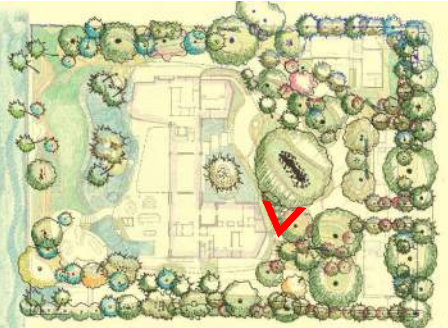
No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. LIA000059  
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SHEET TITLE:  
**LANDSCAPE RENDERING**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LR.104**




KEY PLAN (N.T.S.)



REVISIONS:

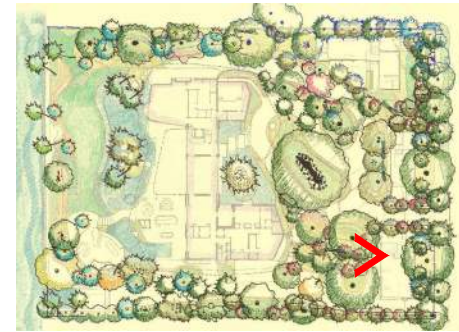
No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. LA000059  
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SHEET TITLE:  
**LANDSCAPE RENDERING**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LR.105**



KEY PLAN (N.T.S.)



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**RAYMOND JUNGLES INC**  
 Landscape Architect FASLA  
 2964 Aviation Ave., Miami, FL 33133  
 PH 305.858.6777  
 www.raymondjungles.com  
 PROJECT NO. : 22065

Final Submittal DRB 24-1014  
**MILLER GARDEN  
 STAR ISLAND**  
 4-6 Star Island Drive, Miami Beach, FL 33139

No.	Date	Description

REVISIONS:  
 SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. LA0000592  
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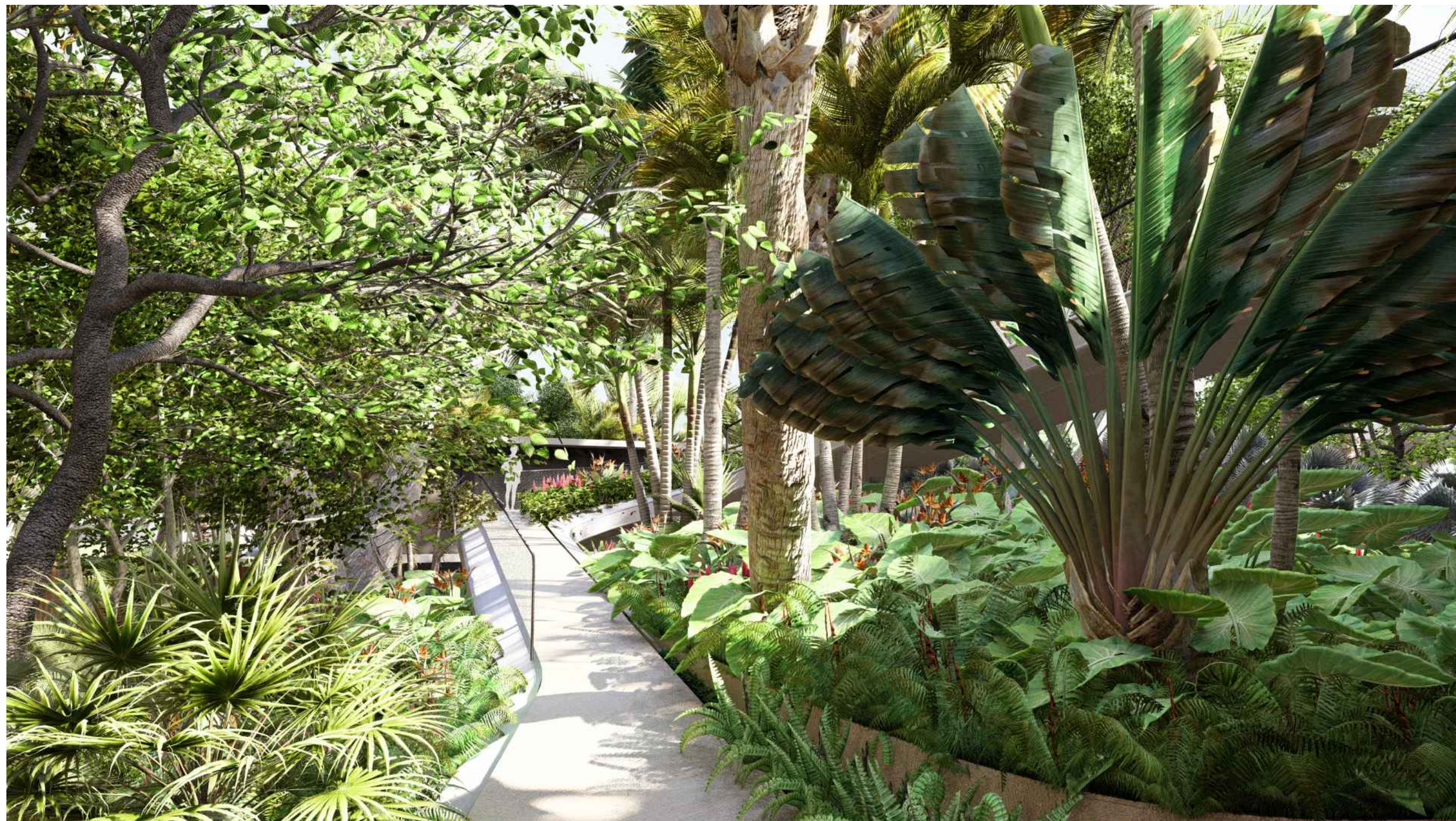
SHEET TITLE:  
**LANDSCAPE  
 RENDERING**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LR.106**



KEY PLAN (N.T.S.)



Final Submittal DRB 24-1014

# MILLER GARDEN STAR ISLAND

4-6 Star Island Drive, Miami Beach, FL 33139

No.	Date	Description

LANDSCAPE ARCHITECT:

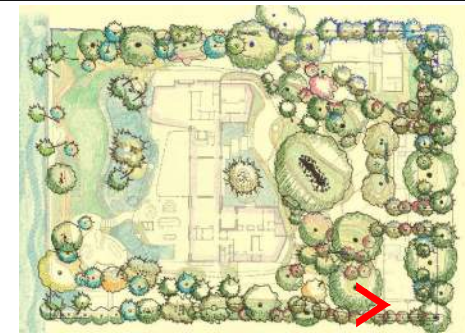


FLORIDA LICENSE NO. LA000559  
Not valid for construction unless signed in this box

SHEET TITLE:  
**LANDSCAPE RENDERING**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024

SHEET NUMBER:  
**LR.107**




KEY PLAN (N.T.S.)



Final Submittal DRB 24-1014  
**MILLER GARDEN  
 STAR ISLAND**  
 4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

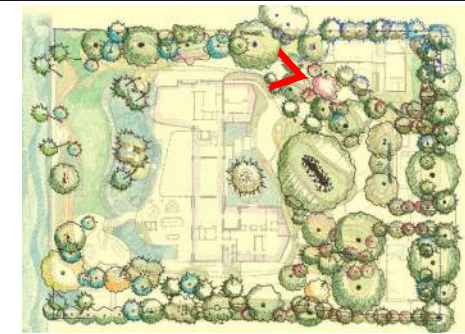
No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO.  
 LA000559  
Not valid for construction unless signed in this box

SHEET TITLE:  
**LANDSCAPE  
 RENDERING**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LR.108**



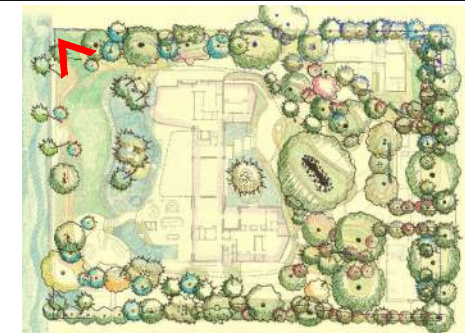
KEY PLAN (N.T.S.)



REVISIONS:

No.	Date	Description





KEY PLAN (N.T.S.)



Final Submittal DRB 24-1014

**MILLER GARDEN  
 STAR ISLAND**

4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

SEAL:

LANDSCAPE ARCHITECT:



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SHEET TITLE:

**LANDSCAPE  
 RENDERING**

Scale: AS NOTED

Drawn By: JL, HJ

Checked By: BG

Date: 04-19-2024

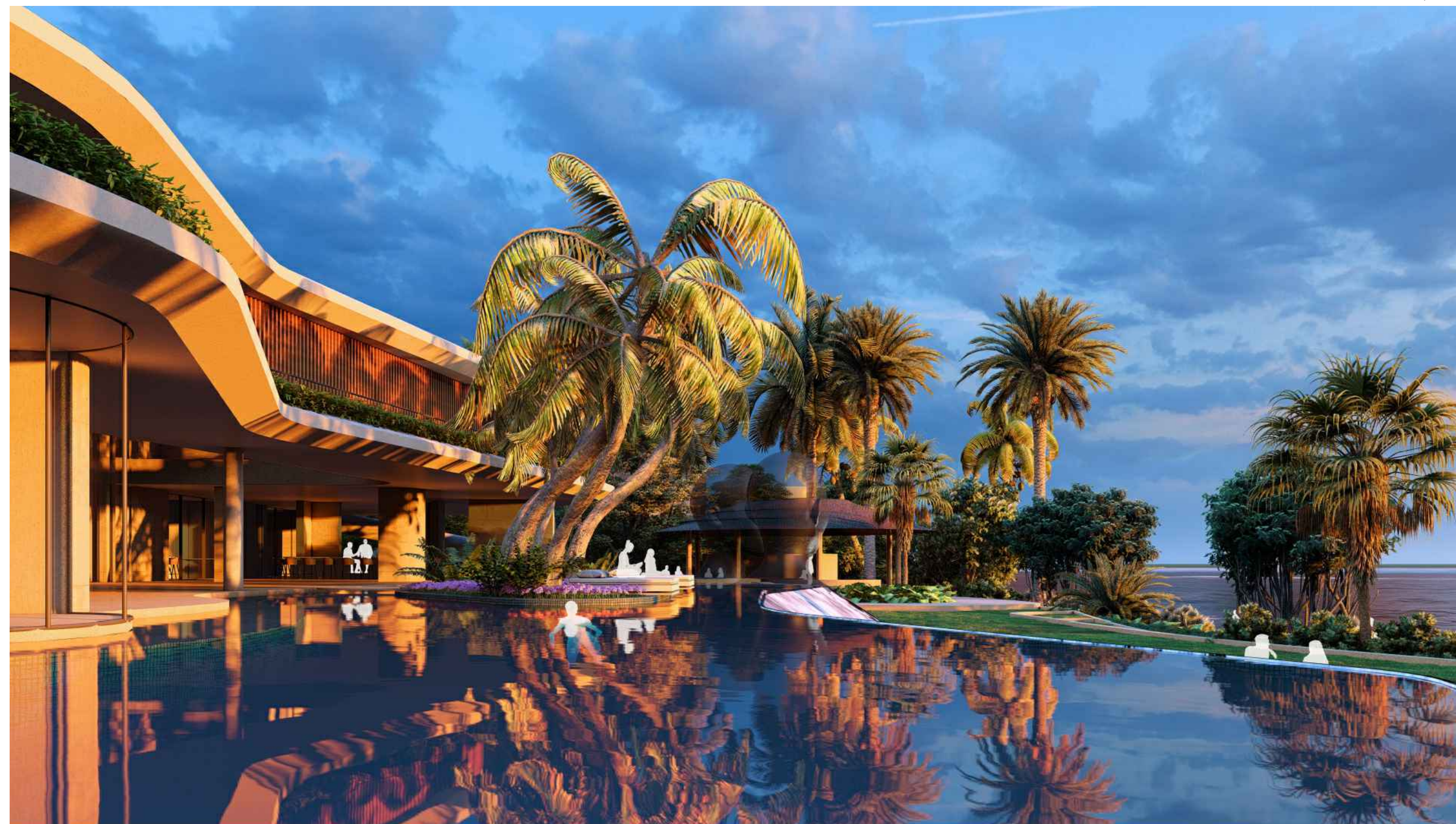
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**LR.110**





KEY PLAN (N.T.S.)



REVISIONS:

No.	Date	Description

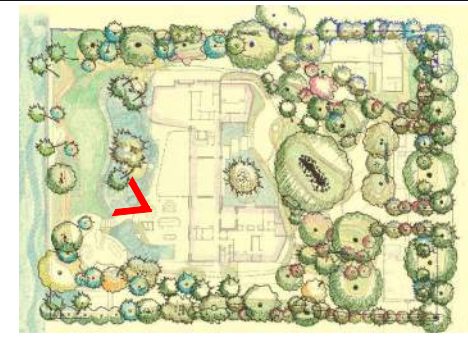


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SHEET TITLE:  
**LANDSCAPE  
 RENDERING**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LR.112**



KEY PLAN (N.T.S.)



**jungles**  
RAYMOND JUNGLES INC  
Landscape Architect FAS/LSA  
2964 Aviation Ave., Miami, FL 33133  
PH 305.658.6777  
www.raymondjungles.com  
PROJECT NO. : 22065

Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
4-6 Star Island Drive, Miami Beach, FL 33139

No.	Date	Description

SEAL:  
LANDSCAPE ARCHITECT:



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SHEET TITLE:  
**LANDSCAPE RENDERING**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024

SHEET NUMBER:

**LR.113**

**Model PL-15 12V SOW T4 3W LED PL-15**

*Simply better by design™*

**Model:** PL-15  
**Lamp:** 3x-watt, 3-watt LED  
**Input Voltage:** 12V (Special transformer required)  
**Material:** Aluminum or Brass - 1 1/4" square  
**Hardware:** Stainless Steel  
**Finish:** Screen Powder Coat, Ten Minute  
**Lens:** Tempered Frosted Glass  
**Mounting:** 1/2" NPT (order mount separately)  
**Height:** 17" or 20"  
**Socket:** GY6.35 Pin Provision  
**IP Rating:** IP65  
**Certification:** Wet location landscape, UL E838  
**Wiring:** 6 ft. 16G low voltage cable  
**Weight:** Brass 2.6 lbs., Aluminum 1.8 lbs.  
**Material:** Brass 20 Series, Aluminum 10 Series  
**Dimensions:** 1 1/4" square base, 20 1/4" x 4 1/2"

**Check Your Mounting Style**

**FINISHES:** ALUMINUM, BRASS, BRILLIANCE, ANTI-REFLECTIVE

**ORDERING LOGIC:** Model PL-15  
 Finish A - Aluminum, B - Brass  
 Height H2 - 17", H3 - 20"  
 Weight W2 - Black, W3 - Chrome, W4 - White, W5 - Clear, W6 - Silver, W7 - Bronze, W8 - Dark Bronze, W9 - Polished

**ORDERING EXAMPLE:** PL-15-B-20-H2

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**12V LED Large Accent Light with Variable Lumen Output (VLO)**

*Simply better by design™*

**Model:** VLO-15  
**Lamp:** 15-watt, 3-watt LED  
**Input Voltage:** 12V (Special transformer required)  
**Material:** Aluminum or Brass - 1 1/4" square  
**Hardware:** Stainless Steel  
**Finish:** Screen Powder Coat, Ten Minute  
**Lens:** Tempered Frosted Glass  
**Mounting:** 1/2" NPT (order mount separately)  
**Height:** 17" or 20"  
**Socket:** GY6.35 Pin Provision  
**IP Rating:** IP65  
**Certification:** Wet location landscape, UL E838  
**Wiring:** 6 ft. 16G low voltage cable  
**Weight:** Brass 2.6 lbs., Aluminum 1.8 lbs.  
**Material:** Brass 20 Series, Aluminum 10 Series  
**Dimensions:** 1 1/4" square base, 20 1/4" x 4 1/2"

**Check Your Mounting Style**

**FINISHES:** ALUMINUM, BRASS, BRILLIANCE, ANTI-REFLECTIVE

**ORDERING LOGIC:** Model VLO-15  
 Finish A - Aluminum, B - Brass  
 Height H2 - 17", H3 - 20"  
 Weight W2 - Black, W3 - Chrome, W4 - White, W5 - Clear, W6 - Silver, W7 - Bronze, W8 - Dark Bronze, W9 - Polished

**ORDERING EXAMPLE:** VLO-15-B-20-H2

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**Model IN-6L 12VAC/DC 9W LED MODULE IN-6L**

*Simply better by design™*

**Model:** IN-6L  
**Lamp:** 12W Steady State  
**Input Voltage:** 120V (120VAC/120VDC) - Autotransformer  
**Material:** Machined Aluminum  
**Hardware:** Stainless Steel  
**Finish:** Screen Powder Coat  
**Mounting:** 20 degree (vertical) 300 degree (horizontal)  
**Flush:** 1/4" into surface as desired  
**Lens:** Tempered Clear Glass Lens  
**IP Rating:** IP65  
**Certification:** Wet location  
**Wiring:** 6' 12G Low Voltage Cable  
**Weight:** 5.8 lbs.  
**Material:** 20 Series  
**Dimensions:** 6" dia., 4" high

**Check Your Mounting Style**

**FINISHES:** ALUMINUM, BRASS, BRILLIANCE, ANTI-REFLECTIVE

**ORDERING LOGIC:** Model IN-6L  
 Finish A - Aluminum, B - Brass  
 Weight W2 - Black, W3 - Chrome, W4 - White, W5 - Clear, W6 - Silver, W7 - Bronze, W8 - Dark Bronze, W9 - Polished

**ORDERING EXAMPLE:** IN-6L-A-4-FC-1-NT-02

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**Model FA-1 12V SOW MR16 8W LED FA-1**

*Simply better by design™*

**Model:** FA-1  
**Lamp:** MR16 Halogen or LED  
**Maximum Voltage:** 12-watt, 8-watt LED  
**Input Voltage:** 12V (Special transformer required)  
**Material:** Machined Aluminum  
**Hardware:** Stainless Steel  
**Finish:** Screen Powder Coat  
**Mounting:** 1/2" NPT (order mount separately)  
**Socket:** GY6.35 Pin Provision  
**IP Rating:** IP65  
**Certification:** Wet location  
**Wiring:** 28' 16G Low Voltage Cable  
**Weight:** 1.5 lbs.  
**Material:** 20 Series  
**Dimensions:** 2.38" dia., 4.5" overall

**Check Your Mounting Style**

**FINISHES:** ALUMINUM, BRASS, BRILLIANCE, ANTI-REFLECTIVE

**ORDERING LOGIC:** Model FA-1  
 Finish A - Aluminum  
 Weight W2 - Black, W3 - Chrome, W4 - White, W5 - Clear, W6 - Silver, W7 - Bronze, W8 - Dark Bronze, W9 - Polished

**ORDERING EXAMPLE:** FA-1-A-10C

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**FLEXIBLE OPTIONS**

**BETTER ILLUMINATION**

**ENERGY SAVINGS**

**BARELY VISIBLE**

**500 Watts 27 Watts**

**95% LESS ENERGY**

Go beyond accent lighting!

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**A PATH LIGHT**  
Scale: N.T.S.

**B UP LIGHT**  
Scale: N.T.S.

**C IN-GROUND UP LIGHT**  
Scale: N.T.S.

**D WALL WASH UP LIGHT**  
Scale: N.T.S.

**E POOL LIGHT**  
Scale: N.T.S.

**12V LED Large Accent Light with Variable Lumen Output (VLO)**

*Simply better by design™*

**Model:** VLO-15  
**Lamp:** 15-watt, 3-watt LED  
**Input Voltage:** 12V (Special transformer required)  
**Material:** Aluminum or Brass - 1 1/4" square  
**Hardware:** Stainless Steel  
**Finish:** Screen Powder Coat, Ten Minute  
**Lens:** Tempered Frosted Glass  
**Mounting:** 1/2" NPT (order mount separately)  
**Height:** 17" or 20"  
**Socket:** GY6.35 Pin Provision  
**IP Rating:** IP65  
**Certification:** Wet location landscape, UL E838  
**Wiring:** 6 ft. 16G low voltage cable  
**Weight:** Brass 2.6 lbs., Aluminum 1.8 lbs.  
**Material:** Brass 20 Series, Aluminum 10 Series  
**Dimensions:** 1 1/4" square base, 20 1/4" x 4 1/2"

**Check Your Mounting Style**

**FINISHES:** ALUMINUM, BRASS, BRILLIANCE, ANTI-REFLECTIVE

**ORDERING LOGIC:** Model VLO-15  
 Finish A - Aluminum, B - Brass  
 Height H2 - 17", H3 - 20"  
 Weight W2 - Black, W3 - Chrome, W4 - White, W5 - Clear, W6 - Silver, W7 - Bronze, W8 - Dark Bronze, W9 - Polished

**ORDERING EXAMPLE:** VLO-15-B-20-H2

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**Model MT-14 Tree Strap with Canopy**

*Simply better by design™*

**Model:** MT-14  
**Canopy Material:** Machined Aluminum Canopies  
**Mount:** 1/2" NPT Thread  
**Strip Length:** Available in 48", 17' or 120"  
**Canopy Option:** Up to 3 per system strip  
**Hardware:** Stainless Steel  
**Finish:** Screen Powder Coat  
**IP Rating:** IP65  
**Certification:** Wet location landscape, UL E838  
**Wiring:** 2.38" dia., canopy, 1" wire strip

**Check Your Mounting Style**

**FINISHES:** ALUMINUM, BRASS, BRILLIANCE, ANTI-REFLECTIVE

**ORDERING LOGIC:** Model MT-14  
 Mount M1 - 1/2" NPT, M2 - 1/4" NPT, M3 - 3/8" NPT  
 Canopy C1 - Standard, C2 - L-Loading  
 Strip Length L1 - One, L2 - Two, L3 - Three  
 Strip Length L4 - 48", L5 - 17', L6 - 120"

**ORDERING EXAMPLE:** MT-14-A-L-1-48-1B1

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**SL75-LED BROWN UNDERWATER LIGHT** - feature cast bronze housing and silver base, cast bronze rock guard, stainless steel fasteners, phosphor-bronze end caps and tempered lens with ring gasket, optional bracket with sealed connectors and ten foot long 16/7 submersible power cord. Each fixture is supplied with a 6.5W, 12V WET LED bulb.

**Lighting Facts:** 6.5 watt, 12 volt, 12 inch diameter, 6.5 inch height

**WARNING:** Do not touch the lens or the lens gasket. Do not touch the lens or the lens gasket. Do not touch the lens or the lens gasket.

**For submersed use only:** Do not use in wet areas. Do not use in wet areas. Do not use in wet areas.

**Ordering Logic:** Model SL75-LED  
 Finish F1 - Black, F2 - Bronze, F3 - White, F4 - Clear, F5 - Polished  
 Mount M1 - 1/2" NPT, M2 - 1/4" NPT, M3 - 3/8" NPT  
 Cord Length L1 - 10', L2 - 20', L3 - 30', L4 - 40', L5 - 50', L6 - 60', L7 - 70', L8 - 80', L9 - 90', L10 - 100'

**ORDERING EXAMPLE:** SL75-LED-A-L-1-10'-F1

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**PENTAIR MICROBRITE™ COLOR AND WHITE LED LIGHT**

The Most Compact, Brilliant Pool and Spa Wall Fitting LED Light Available.

Give your customer the ultimate lighting upgrade. Microbrite Color and White LED Light provides exceptional performance and lighting quality. Because they're only 2.5 inches long - the industry's shortest - they give you freedom to add lighting to places never before possible. Microbrite LED lighting gives your customers the most compact, brilliant lighting upgrade.

**KEY FEATURES:**

- Brilliant LED Technology in a Small Package
- Premium LED Construction and wet area protection from 1/8" to 1.5" thickness
- Open Up New Lighting Design Possibilities
- Fit in narrow walls and tight corners wherever you want
- Upgrade to Fiberoptic Lighting Solutions for remote color and light sources wherever you want
- Fast, Simple Installation
- Ready to plug into a 12 volt pool and spa wiring

**Technical Information:**

Series	MBL-6
Mounting	24"
CCT	3000K / 4000K / 5000K
Power	6.5W
Wattage	4.2W per ft.
Lumens	100 lm per foot per ft. 100 lm per ft.
Max. Size	2.5" x 0.5" x 0.5"
Material	Aluminum (IP68 enclosure)
Depth	0.5"
Weight	10.0 lbs. (per ft.)
Life	50,000 hrs.

**Control Options:**

- 12V Single Color Control
- 12V Single Color + Trunk Receiver
- Remote Dimming
- Remote Dimming + LED Drive

**Listing / Ratings:**

- UL Listed for Wet Locations
- UL Listed for Wet Locations
- UL Listed for Wet Locations

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**TRULUX™ LIGHTING SYSTEMS / POOL LIGHT / RECESSED**

**Features:**

- Sealed IP68 power input can be used with 120V and 240V systems for wet and submerged use locations
- High output White with 94-CRI offers up to 4,500 lumens per foot using only 4.5 watt/foot
- Remote dimming with 24V dimmers per foot
- Compatible with TruColor and most electronic low voltage dimmers
- Heat conductive (pins per foot) only every 3.6"
- Heat conductive (pins per foot) only every 3.6"
- Heat conductive (pins per foot) only every 3.6"

**Technical Information:**

Series	TRU-24V
Mounting	24"
CCT	3000K / 4000K / 5000K
Power	4.5W
Wattage	4.5W per ft.
Lumens	100 lm per foot per ft. 100 lm per ft.
Max. Size	2.5" x 0.5" x 0.5"
Material	Aluminum (IP68 enclosure)
Depth	0.5"
Weight	10.0 lbs. (per ft.)
Life	50,000 hrs.

**Control Options:**

- 12V Single Color Control
- 12V Single Color + Trunk Receiver
- Remote Dimming
- Remote Dimming + LED Drive

**Listing / Ratings:**

- UL Listed for Wet Locations
- UL Listed for Wet Locations
- UL Listed for Wet Locations

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**F TREE MOUNTED DOWN LIGHT**  
Scale: N.T.S.

**G WATER FEATURE UPLIGHT**  
Scale: N.T.S.

**H WATER FEATURE LIGHT**  
Scale: N.T.S.

**I RECESSED STEP LIGHT**  
Scale: N.T.S.

**GENERAL NOTES**

1. PROPOSED LANDSCAPE LIGHTING IS TO BE SUBTLE, ACCENTUATE SPECIMEN AND OTHER KEY PLANT MATERIAL, AND PROVIDE WAYFINDING. LIGHTING FOR SPORTS COURTS OR OTHER ATYPICAL FEATURE LIGHTING IS NOT PROPOSED.
2. ALL FIXTURES TO BE INSTALLED PER THE NATIONAL ELECTRICAL CODE (N.E.C.). THE N.E.C. SHALL GOVERN AND SUPERCEDE ALL SPECIFICATIONS.
3. CONTRACTOR TO COORDINATE EXACT FIXTURE LOCATION WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. CONTRACTOR TO VERIFY TRANSFORMER QUANTITIES AND LOCATIONS PRIOR TO INSTALLATION.
5. ALL VISIBLE HARDWARE CONNECTIONS TO BE APPROVED BY LANDSCAPE ARCHITECT.
6. NO LAMP SUBSTITUTIONS SHALL BE PERMITTED UNLESS APPROVED BY LANDSCAPE ARCHITECT.
7. PERFORMANCE ENHANCING LENSES TO BE SPECIFIED AND APPROVED BY LANDSCAPE ARCHITECT. PRISMATIC SPREAD LENSES TO BE USED FOR WIDE BEAM ANGLES.
8. TRANSFORMERS SHALL BE MULTI-TAPPED MAGNETIC STAINLESS STEEL.
9. PRIOR TO PURCHASING MATERIALS, CONTRACTOR SHALL PROVIDE SUBMITTALS TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.
10. WIRE SHALL BE UV RESISTANT DIRECT BURIAL LIGHTING CABLE INSTALLED A MINIMUM OF 6" BELOW GRADE. CONTRACTOR SHALL ALLOW FOR AN

- ADDITIONAL 15% LOAD ON EACH CIRCUIT.
11. DIRECT BURIAL WIRE SHALL BE PROTECTED BY 2" LENGTH PVC SLEEVE AT EDGE OF EVERY LANDSCAPE BED LINE.
12. ALL CONNECTORS USED SHALL BE KING INNOVATION SILICONE WATER-RESISTANT WIRE NUT CONNECTORS.
13. CONTRACTOR SHOULD VERIFY ALL ESTIMATED QUANTITIES OF MATERIAL SHOWN ON THE LANDSCAPE ARCHITECT'S DRAWINGS PRIOR TO SUBMITTING A BID.
14. NO CHANGE OR SUBSTITUTION SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT. ANY REVISION OR MODIFICATIONS TO THE LIGHTING PLAN MUST HAVE PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT & OWNER.
15. CHANGES MAY OCCUR DURING THE NORMAL COURSE OF IMPLEMENTATION. VERBAL CHANGE ORDERS WILL NOT BE HONORED. ANY CHANGES MUST BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING AS A CHANGE ORDER TO BE REVIEWED AND APPROVED IN WRITING BY OWNER/CLIENT.
16. LIGHTING CONTRACTOR SHALL LOCATE AND VERIFY ALL UNDERGROUND UTILITIES OR STRUCTURES PRIOR TO DIGGING. LIGHTING CONTRACTOR SHALL REPAIR ALL DAMAGES TO UNDERGROUND UTILITIES, AND OR CONSTRUCTION CAUSED BY LIGHTING INSTALLATION, AT NO COST TO THE OWNER.
17. LIGHTING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER

- APPROPRIATE CONTRACTORS.
18. LIGHTING PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL CODES.
19. ON-SITE LAYOUT OF LIGHT FIXTURES SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT AT THE TIME OF INSTALLATION.
20. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY PERMITS OR APPROVALS FROM THE FEDERAL, STATE OR LOCAL GOVERNMENT REQUIRED FOR THE WORK INCLUDED IN THIS CONTRACT AND ON THESE DRAWINGS.
21. THESE DRAWINGS, DOCUMENTS, AND ALL CONTENTS ARE THE PROPERTY OF RAYMOND JUNGLES, INC. ALL RIGHTS ARE RESERVED. UNAUTHORIZED USE OR PRODUCTION, IN PART OR WHOLE, FOR ANY PURPOSE IS UNLAWFUL AND PROHIBITED EXCEPT BY EXPRESS WRITTEN CONSENT.
22. CONTRACTOR SHALL POWER, AND CONFIRM VIA TESTING THE VOLTAGE OF EACH FIXTURE TO ENSURE THAT IT MEETS MANUFACTURER'S SPECIFICATIONS.
23. ANY AND ALL WATER FEATURE LIGHTING FIXTURES SHALL BE 12 VOLT MAXIMUM AND BE GROUNDED.
24. CONTRACTOR SHALL FURNISH ALL WARRANTY DOCUMENTATION TO OWNER AT COMPLETION OF JOB.
25. CONTRACTOR SHALL HAVE LIGHTING INSTALLATION PERMITTED AND INSPECTED BY THE GOVERNING REGULATORY AGENCY. APPROVAL

- DOCUMENTATION SHALL BE FURNISHED TO THE LANDSCAPE ARCHITECT & OWNER.
26. CONTRACTOR SHALL DISCUSS OWNER PREFERENCES FOR SCENE OPTIONS AND DIMMING CONTROLS PRIOR TO LIGHTING INSTALLATION.
27. TRANSFORMER CAPACITY TO BE DETERMINED BY CONTRACTOR AND APPROVED BY LANDSCAPE ARCHITECT.
28. TRANSFORMERS SHALL BE COMPATIBLE WITH IN-HOUSE CONTROLS.
29. LAMP TYPES SHALL BE AN LED LIGHT SOURCE, UNLESS NOTED OTHERWISE, AND APPROVED BY LANDSCAPE ARCHITECT.
30. ALL FIXTURES SHALL BE ON A DIMMER CONTROL MODULE WITH SCENE OPTIONS.
31. INDIVIDUAL FIXTURE TYPES SHALL BE ON DEDICATED/SEGREGATED CIRCUITS AND TRANSFORMERS.

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Final Submittal DRB 24-1014  
MILLER GARDEN  
STAR ISLAND  
4-6 Star Island Drive, Miami Beach, FL 33139

**REVISIONS:**

No.	Date	Description
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**SEAL:**  
LANDSCAPE ARCHITECT:

**FLORIDA LICENSE NO.:**

**LANDSCAPE LIGHTING SPECIFICATIONS**

Scale: AS NOTED  
 Drawn By: JL, HL  
 Checked By: BG  
 Date: 04-19-2024  
 SHEET NUMBER:  
**LL.100**