

2050 NORTH BAY ROAD GARDEN

2050 North Bay Road, Miami Beach, FL 33140

DESIGN REVIEW BOARD SUBMITTAL - October 12, 2020

Prepared for:

David Grutman
Groot Hospitality
1680 Meridian Ave #303
Miami Beach, FL 33139

Prepared by:

jungles

Raymond Jungles, Inc.
Landscape Architect

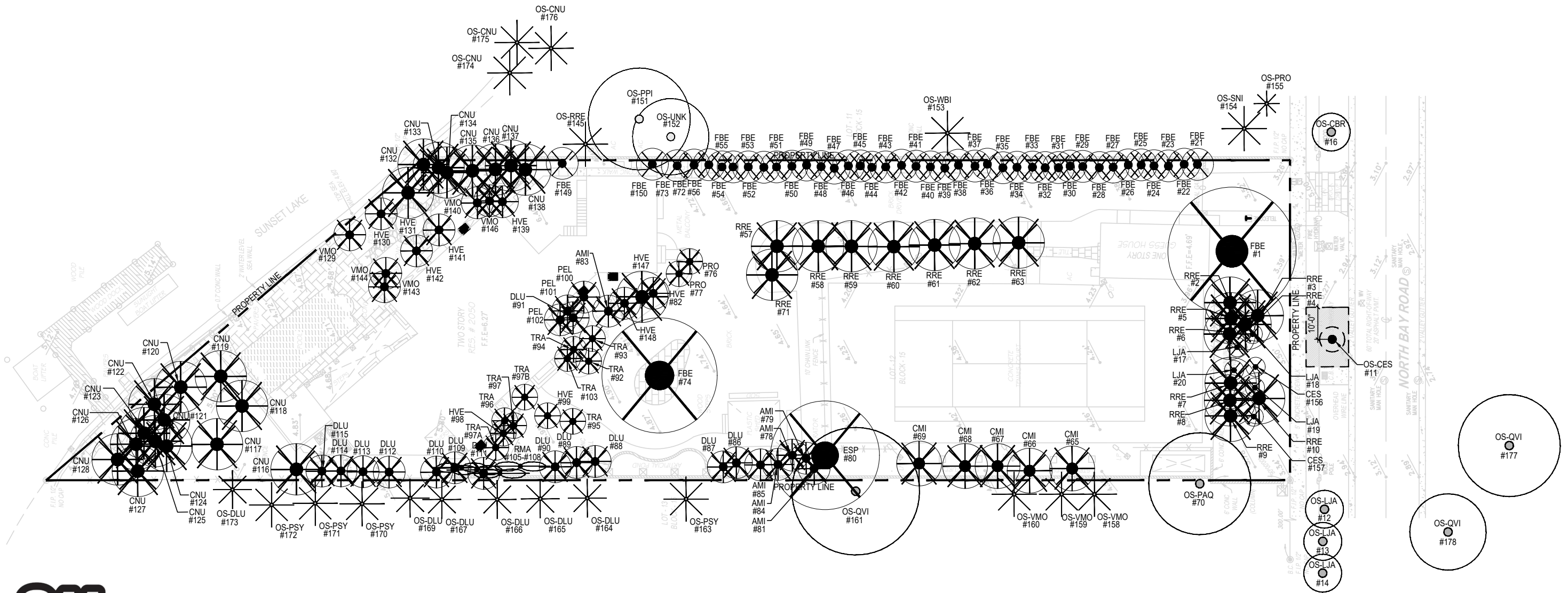
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DRB-920	SOUTH ELEVATION	•	•	•

NOTE: REFER TO THE INCLUDED ISA CERTIFIED
EVALUATION REPORT FOR FBE #1, FBE #74,
AND ESP #80, PREPARED BY JEFF SHIMONSKI.



LEGEND

PROPERTY LINE		EXISTING TO REMAIN	EXISTING TO BE RELOCATED	EXISTING TO BE REMOVED	EXISTING OFF-SITE TO REMAIN
TREE PROTECTION BARRIER	TREE	N/A			
TREE PROTECTION ZONE	PALM	N/A	N/A		
	TRAVELERS TREE	N/A	N/A		

GENERAL NOTES:

1. TREE SURVEY BASED ON ALL AVAILABLE INFORMATION, CONTRACTOR TO REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION. RAYMOND JUNGLES, INC. (RJ) MAY ASSIST WITH THE TAGGING OF ALL TREES IN THE FIELD.
2. 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. RJ WILL ALSO OVERSEE ANY RECOMMENDATIONS FOR FURTHER MODIFICATIONS TO ANY EXISTING MATERIAL.
3. ALL PITS TO BE FILLED THE SAME DAY OF REMOVAL OF TREES. RESTORE SURFACE WITH SOD OR MULCH TO MATCH EXISTING CONDITIONS.
4. CONTRACTOR SHALL VERIFY ALL EXISTING ABOVE AND UNDERGROUND UTILITIES 48 HOURS PRIOR TO ANY ON SITE EXCAVATION.
5. REVIEW ADDITIONAL NOTES AND DETAILS ON SHEET LR.201 FOR RELOCATED MATERIAL.
6. SEE LR.200 FOR TREE DISPOSITION SCHEDULE.
7. REFER TO LANDSCAPE PLANS FOR FINAL LOCATION OF RELOCATED TREES.
8. ALL WORK AND/OR IMPROVEMENTS WITHIN THE RIGHT-OF-WAY, INCLUDING LANDSCAPING AND IRRIGATION, REQUIRES A SEPARATE CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT RIGHT-OF-WAY CONSTRUCTION PERMIT.

DRB SET 10.12.20

0 8' 16' 32'

SCALE: 1/32" = 1'-0"



Grutman Residence
2050 N Bay Road
Miami, FL 33149

2030 N Bay Road
Miami Beach, FL 33140

TREE DISPOSITION PLAN

EAL

NOT FOR
CONSTRUCTION

Raymond Jungles, Inc
Florida License No:
LA0000856

SHEET NO.:

RB-900

CMA Design Studio, Inc.

ARCHITECTURE PLANNING INTERIOR DESIGN
232 Andalusia Avenue Suite 101 Coral Gables, Florida 33134 T: 305.448.4200

2050 NORTH BAY ROAD, MIAMI BEACH, FL 33140									
TREE DISPOSITION SCHEDULE									
Per Survey Date 08/17/2020									
Existing Trees and Palms									
Iden.	Symbol	Scientific Name	Common Name	D.B.H. (inches)	O.A. Height (feet)	Canopy Diameter (feet)	Notes	Disposition	Mitigation Credits Required
#91	FBE	Ficus benjamina	Weeping Fig	60	40	60		Remove	60
#2	RRE	Roystonea regia	Royal Palm	21.6	50	15		Remove	(1) TREE
#3	RRE	Roystonea regia	Royal Palm	21.6	50	15		Remove	(1) TREE
#4	RRE	Roystonea regia	Royal Palm	21.6	50	15		Remove	(1) TREE
#5	RRE	Roystonea regia	Royal Palm	21.6	50	15		Remove	(1) TREE
#6	RRE	Roystonea regia	Royal Palm	21.6	50	15		Remove	(1) TREE
#7	RRE	Roystonea regia	Royal Palm	21.6	50	15		Remove	(1) TREE
#8	RRE	Roystonea regia	Royal Palm	21.6	50	15		Remove	(1) TREE
#9	RRE	Roystonea regia	Royal Palm	21.6	50	15		Remove	(1) TREE
#10	RRE	Roystonea regia	Royal Palm	21.6	50	15		Remove	(1) TREE
OS-#11	CES	Conocarpus erectus 'Sericeus'	Silver Buttonwood	4	10	8		Relocate	
OS-#12	LJA	Ligustrum japonicum	Japanese Privet	9.6	15	12	Off-site	Relocate	N/A
OS-#13	LJA	Ligustrum japonicum	Japanese Privet	24	15	12		Relocate	
OS-#14	LJA	Ligustrum japonicum	Japanese Privet	36	15	12		Relocate	
15				Does not exist					
OS-#16	CBR	Calophyllum brasiliense	Brazilian Beautyleaf	3.6	12	8	Off-site	Relocate	N/A
#17	LJA	Ligustrum japonicum	Japanese Privet	4.8	10	8		Relocate	N/A
#18	LJA	Ligustrum japonicum	Japanese Privet	4.8	10	8	Mitigation not required; Specs do not meet minimum requirements	Relocate	N/A
#19	LJA	Ligustrum japonicum	Japanese Privet	4.8	10	8		Relocate	N/A
#20	LJA	Ligustrum japonicum	Japanese Privet	4.8	10	8		Relocate	N/A
#21	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#22	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#23	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#24	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#25	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#26	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#27	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#28	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#29	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#30	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#31	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#32	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#33	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#34	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#35	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#36	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#37	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#38	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#39	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#40	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#41	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#42	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#43	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#44	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#45	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#46	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#47	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#48	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#49	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#50	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#51	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#52	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#53	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#54	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#55	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#56	FBE	Ficus benjamina	Weeping Fig	15.6	18	13		Relocate	
#57	RRE	Roystonea regia	Royal Palm	15.6	50	13	Incorrect species on tree survey	Remove	(1) TREE
#58	RRE	Roystonea regia	Royal Palm	20.4	50	15		Remove	(1) TREE
#59	RRE	Roystonea regia	Royal Palm	20.4	50	15		Remove	(1) TREE
#60	RRE	Roystonea regia	Royal Palm	20.4	50	15		Remove	(1) TREE
#61	RRE	Roystonea regia	Royal Palm	20.4	50	15		Remove	(1) TREE
#62	RRE	Roystonea regia	Royal Palm	20.4	50	15		Remove	(1) TREE
#63	RRE	Roystonea regia	Royal Palm	20.4	50	15		Remove	(1) TREE
#64				Does not exist					
#65	CMJ	Caryota mitis	Fishtail Palm	48	30	12		Remove	
#66	CMJ	Caryota mitis	Fishtail Palm	48	30	12	Clustering palm; mitigation not required	Remove	N/A
#67	CMJ	Caryota mitis	Fishtail Palm	48	30	12		Remove	
#68	CMJ	Caryota mitis	Fishtail Palm	48	30	12		Remove	
#69	CMJ	Caryota mitis	Fishtail Palm	48	30	12		Remove	
OS-#70	PAQ	Pachira aquatica	Guiana Chestnut				Off-site	Relocate	
#71	RRE	Roystonea regia	Royal Palm	20.4	50	15	Incorrect species on tree survey	Remove	(1) TREE
#72	FBE	Ficus benjamina	Weeping Fig	15.6	18	13	Incorrect species on tree survey	Remove	N/A
#73	FBE	Ficus benjamina	Weeping Fig	15.6	18	13	Incorrect species on tree survey	Remove	N/A
#74	FBE	Ficus benjamina	Weeping Fig	15.6	34	38		Remove	15.6
#75				Does not exist					
#76	PRO	Phoenix roebelenii	Pygmy Date Palm	4.2	8	5	Mitigation not required; Palm height is below 16'	Remove	N/A
#77	PRO	Phoenix roebelenii	Pygmy Date Palm	4.2	8	5		Remove	
#78	AMI	Adonidia merillii	Christmas Palm	4.2	8	5		Remove	
#79	AMI	Adonidia merillii	Christmas Palm	4.2	8	5		Remove	
#80	ESP	Eugenia sp.	Eugenia	12	35	35	Tree is in poor health	Remove	N/A
#81	AMI	Adonidia merillii	Christmas Palm	24	30	15		Remove	(1) TREE
#82	HVE	Hyophorbe verschaffeltii	Spindle Palm	12	14	12	Palm height is below 16'	Remove	N/A
#83	AMI	Adonidia merillii	Christmas Palm	3	10	6	Palm height is below 16'	Remove	N/A
#84	AMI	Adonidia merillii	Christmas Palm	4.2	8	5	Incorrect species on tree survey	Remove	N/A
#85	AMI	Adonidia merillii	Christmas Palm	4	8	5	Incorrect species on tree survey	Remove	N/A
#86	DLU	Dypsis lutescens	Areca Palm	24	20	15		Remove	
#87	DLU	Dypsis lutescens	Areca Palm	36	30	15		Remove	
#88	DLU	Dypsis lutescens	Areca Palm	24	20	15	Clustering palm; mitigation not required	Remove	N/A
#89	DLU	Dypsis lutescens	Areca Palm	24	20	15		Remove	
#90	DLU	Dypsis lutescens	Areca Palm	36	30	15		Remove	
#91	DLU	Dypsis lutescens	Areca Palm	36	30	15		Remove	
#92	TRA	Thrinax radiata	Florida Thatch Palm	3.6	30	10		Remove	N/A
#93	TRA	Thrinax radiata	Florida Thatch Palm	3.6	30	10		Remove	N/A
#94	TRA	Thrinax radiata	Florida Thatch Palm	3.6	30	10		Remove	N/A
#95	TRA	Thrinax radiata	Florida Thatch Palm	3.6	30	10	Mitigation not required; Palm DBH is under 6"	Remove	N/A
#96	TRA	Thrinax radiata	Florida Thatch Palm	3.6	30	10		Remove	N/A
#97	TRA	Thrinax radiata	Florida Thatch Palm	3.6	30	10		Remove	N/A
#97A	TRA	Thrinax radiata	Florida Thatch Palm	3.6	30	10		Remove	N/A
#97B	TRA	Thrinax radiata	Florida Thatch Palm	3.6	30	10		Remove	N/A

jungles

Existing Trees and Palms				D.B.H. (inches)	O.A. Height (feet)	Canopy Diameter (feet)	Notes	Disposition	Mitigation Credits Required
Iden.	Symbol	Scientific Name	Common Name						
#98	HVE	Hyophorbe verschaffeltii	Spindle Palm	18	25	12		Remove	(1) TREE
#99	HVE	Hyophorbe verschaffeltii	Spindle Palm	18	25	12		Remove	(1) TREE
#100	PEL	Ptychosperma elegans	Solitaire Palm	3.6	35	12		Remove	N/A
#101	PEL	Ptychosperma elegans	Solitaire Palm	3.6	35	12	Mitigation not required; Palm DBH is under 6"	Remove	N/A
#102	PEL	Ptychosperma elegans	Solitaire Palm	3.6	35	12		Remove	N/A
#103	TRA	Thrinax radiata	Florida Thatch Palm	3.6	30	10		Remove	N/A
#104				Does not exist					
#105	RMA	Ravenala madagascariensis	Traveler's Tree	48	35	20	Clustering palm; mitigation not required	Remove	N/A
#106	RMA	Ravenala madagascariensis	Traveler's Tree	48	35	20		Remove	
#107	RMA	Ravenala madagascariensis	Traveler's Tree	48	35	20		Remove	
#108	RMA	Ravenala madagascariensis	Traveler's Tree	48	35	20	Clustering palm; mitigation not required	Remove	N/A
#109	DLU	Dypsis lutescens	Areca Palm	24	20	15		Remove	
#110	DLU	Dypsis lutescens	Areca Palm	36	30	15		Remove	
#111	DLU	Dypsis lutescens	Areca Palm	24	30	15		Remove	
#112	DLU	Dypsis lutescens	Areca Palm	36	30	15		Remove	
#113	DLU	Dypsis lutescens	Areca Palm	24	20	15		Remove	
#114	DLU	Dypsis lutescens	Areca Palm	24	20	15		Remove	
#115	DLU	Dypsis lutescens	Areca Palm	24	30	15	Remove	(1) TREE	
#116	CNU	Cocos nucifera	Coconut Palm	10.8	35	17		Remove	(1) TREE
#117	CNU	Cocos nucifera	Coconut Palm	10.8	35	17		Remove	(1) TREE
#118	CNU	Cocos nucifera	Coconut Palm	10.8	35	17		Remove	(1) TREE
#119	CNU	Cocos nucifera	Coconut Palm	10.8	35	17		Remove	(1) TREE
#120	CNU	Cocos nucifera	Coconut Palm	10.8	35	17		Remove	(1) TREE
#121	CNU	Cocos nucifera	Coconut Palm	10.8	35	17		Remove	(1) TREE
#122	CNU	Cocos nucifera	Coconut Palm	9.6	25	17		Remove	(1) TREE
#123	CNU	Cocos nucifera	Coconut Palm	9.6	25	17		Remove	(1) TREE
#124	CNU	Cocos nucifera	Coconut Palm	9.6	25	17		Remove	(1) TREE
#125	CNU	Cocos nucifera	Coconut Palm	9.6	25	17		Remove	(1) TREE
#126	CNU	Cocos nucifera	Coconut Palm	9.6	25	17		Remove	(1) TREE
#127	CNU	Cocos nucifera	Coconut Palm	9.6	25	17		Remove	(1) TREE
#128	CNU	Cocos nucifera	Coconut Palm	9.6	25	17		Remove	(1) TREE
#129	VMO	Veitchia montgomeryana	Montgomery Palm	12	15	10	Mitigation not required; Palm height is below 16'	Remove	N/A
#130	HVE	Hyophorbe verschaffeltii	Spindle Palm	12	15	10		Remove	N/A
#131	HVE	Hyophorbe verschaffeltii	Spindle Palm	12	15	10		Remove	N/A
#132	CNU	Cocos nucifera	Coconut Palm	9.6	45	17		Remove	(1) TREE
#133	CNU	Cocos nucifera	Coconut Palm	9.6	45	17		Remove	(1) TREE
#134	CNU	Cocos nucifera	Coconut Palm	9.6	45	17		Remove	(1) TREE
#135	CNU	Cocos nucifera	Coconut Palm	9.6	45	17		Remove	(1) TREE
#136	CNU	Cocos nucifera	Coconut Palm	9.6	45	17		Remove	(1) TREE
#137	CNU	Cocos nucifera	Coconut Palm	9.6	45	17		Remove	(1) TREE
#138	CNU	Cocos nucifera	Coconut Palm	9.6	45	17		Remove	(1) TREE
#139	HVE	Hyophorbe verschaffeltii	Spindle Palm	10.8	15	15	Palm height is below 16'	Remove	N/A
#140	VMO	Veitchia montgomeryana	Montgomery Palm	36	45	15	Double-trunk	Remove	(1) TREE
#141	HVE	Hyophorbe verschaffeltii	Spindle Palm	13.2	18	12		Remove	(1) TREE
#142	HVE	Hyophorbe verschaffeltii	Spindle Palm	13.2	18	12		Remove	(1) TREE
#143	VMO	Veitchia montgomeryana	Montgomery Palm	8.4	45	15		Remove	(1) TREE
#144	VMO	Veitchia montgomeryana	Montgomery Palm	8.4	45	15		Remove	(1) TREE
OS-#145	RRE	Roystonea regia	Royal Palm	24	50	15	Off-site	Remain	N/A
#146	VMO	Veitchia montgomeryana	Montgomery Palm				Not shown on tree survey	Remove	(1) TREE
#147	RRE	Roystonea regia	Royal Palm					Remove	(1) TREE
#148	HVE	Hyophorbe verschaffeltii	Spindle Palm					Remove	(1) TREE
#149	FBE	Ficus benjamina	Weeping Fig					Remove	18
#150	FBE	Ficus benjamina	Weeping Fig					Not shown on tree survey. Dead	Remove
OS-#151	PPI	Piscidia piscipula	Jamaican Dogwood					Remain	
OS-#152	UNK	Unknown	Unknown					Remain	
OS-#153	WBI	Wodyetia bifurcata	Foxtail Palm				Off-site	Remain	N/A
OS-#154	SNI	Streptocarpus nicotii	White Bird of Paradise					Remain	
OS-#155	PRO	Phoenix roebelenii	Pygmy Date Palm					Remain	
#156	CES	Conocarpus erectus 'Sericeus'	Silver Buttonwood Tree	2.4	8	3	Mitigation not required; Specs do not meet minimum requirements	Remove	N/A
#157	CES	Conocarpus erectus 'Sericeus'	Silver Buttonwood Tree	2.4	8	3		Remove	N/A
OS-#158	VMO	Veitchia montgomeryana	Montgomery Palm					Remain	
OS-#159	VMO	Veitchia montgomeryana	Montgomery Palm					Remain	
OS-#160	VMO	Veitchia montgomeryana	Montgomery Palm					Remain	
OS-#161	PAQ	Pachira aquatica	Guiana Chestnut					Remain	
OS-#162	QVI	Quercus virginiana	Live Oak					Remain	
OS-#163	PSY	Phoenix sylvestris	Wild Date Palm					Remain	
OS-#164	DLU	Dypsis lutescens	Areca Palm					Remain	
OS-#165	DLU	Dypsis lutescens	Areca Palm					Remain	
OS-#166	DLU	Dypsis lutescens	Areca Palm					Remain	
OS-#167	DLU	Dypsis lutescens	Areca Palm					Remain	
OS-#168	DLU	Dypsis lutescens	Areca Palm				Off-site	Remain	N/A
OS-#169	DLU	Dypsis lutescens	Areca Palm					Remain	
OS-#170	PSY	Phoenix sylvestris	Wild Date Palm					Remain	
OS-#171	PSY	Phoenix sylvestris	Wild Date Palm					Remain	
OS-#172	PSY	Phoenix sylvestris	Wild Date Palm					Remain	
OS-#173	DLU	Dypsis lutescens	Areca Palm					Remain	
OS-#174	CNU	Cocos nucifera	Coconut Palm					Remain	
OS-#175	CNU	Cocos nucifera	Coconut Palm					Remain	
OS-#176	CNU	Cocos nucifera	Coconut Palm					Remain	
OS-#177	QVI	Quercus virginiana	Live Oak					Remain	
OS-#178	QVI	Quercus virginiana	Live Oak					Remain	
Total Tree D.B.H. Removed Requiring Mitigation (inches)									93.6
Total Palms Removed Requiring Mitigation									48

TREE / PALM PROTECTION NOTES

1. CONTRACTOR QUALIFICATIONS

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

2. CONTRACTOR REQUIREMENTS

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

3. ROOT PRUNING SPECIFICATIONS

3.1. GENERAL

- 3.1.1. ALL TREES AND PALMS TO BE RELOCATED MUST BE WATERED DAILY FOR AT LEAST 2-3 DAYS PRIOR TO ANY ROOTS BEING CUT TO ENSURE THAT THEY ARE FULLY HYDRATED. EACH WATERING MUST THOROUGHLY SATURATE THE ROOTBALL TO ITS FULL DEPTH.
3.1.2. EACH TREE AND PALM MUST THEN BE WATERED EVERY OTHER DAY, NOT RELYING ON RAIN, DURING THE ENTIRE ROOT PRUNING PROCESS EITHER BY A TEMPORARY IRRIGATION SYSTEM OR BY HAND. EACH WATERING MUST THOROUGHLY SATURATE THE ROOTBALL TO ITS FULL DEPTH.
3.1.3. TREE AND PALM RELOCATION ACTIVITIES MUST BE SCHEDULED SO THAT REMOVAL AND REPLANTING TAKE PLACE IN THE SAME 24-HOUR PERIOD. NO TREES OR PALMS MAY BE "STOCKPILED" ONSITE OR OFFSITE FOR ANY PERIOD OF TIME WITHOUT PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. WHEN ALLOWED, APPROVAL FOR THE METHOD OF "STOCKPILING" MUST BE OBTAINED FROM THE LANDSCAPE ARCHITECT.
3.1.4. ALL DIGGING IN THE ROOT ZONE DURING THE ROOT PRUNE PROCESS MUST BE DONE BY HAND; NO MACHINERY WILL BE ALLOWED. PRUNING OF ROOTS MUST BE DONE BY HAND WITH CLEAN, SHARP TOOLS. DO NOT PAINT CUT ROOTS WITH TREE PAINT OR ANY KIND OF SEALANT.
3.1.5. MYCORRHIZA (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 6'-12" OF ROOTBALL FOR EVERY 1" OF TREE CALIPER. OTHERS LIST UNREALISTIC MINIMUM SIZES FOR THE ROOTBALLS OF VARIOUS TREE CALIPERS OR HEIGHTS. IN MANY CASES, SUCH APPROACHES RESULT IN ROOTBALLS THAT ARE EITHER TOO LARGE OR TOO SMALL FOR A GIVEN TREE. THE FOLLOWING TABLE LISTS MINIMUM ROOTBALL DIAMETERS BASED ON REAL-WORLD EXPERIENCE OF TREE RELOCATION SPECIALISTS IN SOUTH FLORIDA:

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

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

- 3.2.5. AS A GENERAL RULE, MINIMUM ROOT PRUNE TIME FOR TREES WITH A DBH OF LESS THAN 10" IS 12 WEEKS. THE FIRST ROOT PRUNE MUST BE ON TWO OPPOSING SIDES OF THE ROOTBALL, WITH THE SECOND ROOT PRUNE ON ONE OF THE OTHER TWO SIDES DONE A MINIMUM OF 8 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 8 WEEKS AFTER THAT. THE SECOND AND THIRD ROOT PRUNES MAY ONLY BE DONE WHEN HEALTHY NEW ROOT GROWTH FROM EARLIER ROOT PRUNES IS EVIDENT (SEE SECTION 2.14 ABOVE FOR SPECIFICATIONS ON PHOTOGRAPHICALLY DOCUMENTING NEW ROOT GROWTH DURING THE ROOT PRUNE PROCESS). MORE TIME MAY BE NEEDED DURING THE COOLER MONTHS OF THE YEAR.

- 3.2.7. CERTAIN HARDWOOD TREES AND GYMNOSPERMS REQUIRE LONGER ROOT PRUNING TIMES. THESE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- AVOCADO (PERSEA AMERICANA)
- BLACK OLIVE (BUCIDIA BUCERAS)
- BRIDALVEIL (CAESALPIA GRANADILLO)
- CASSIAs (ALL SPECIES OF CASSIA)
- LIGNUM VITAE (GUAIACUM SANCTUM & G. OFFICINALE)
- PODOCARPUS (PODOCARPUS SP.)
- LIVE OAK (QUERCUS VIRGINIANA)
- MAHOGANY (SWietenia MAHOGANI)
- MANGO (MANGIFERA INDICA)
- PIGEON PLUM (COCOCLUSA DIVERSIFOLIA)
- SWEET ACACIA (ACACIA FARNESIANA)
- VERAWOOD (BULNESIA ARBOREA)
- WILD TAMARIND (LYSILOMA LATISLIQUUM & 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 4-6 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.

- 3.3.4. 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 ARCHONTOPOHENIX
- ALL SPECIES OF RHYZOPHORA
- AMERICAN OIL PALMS (ALL SPECIES OF ATTALAEA)
- BISMARCK PALM (BISMARCKIA NOBILIS)
- CUBAN & CARIBBEAN COPERNICIA
- CUBAN BELLY PALM (GASTROCOCOS CRISPA)
- GINGERBREAD/DOUM PALMS (ALL SPECIES OF HYPHAENE)
- PALMYRA PALMS (ALL SPECIES OF BORASSUS)
- SATAKE PALM (SATAKENTIA LIKIUNENSIS)
- SAW PALMETTO (SERENOA REPENS)
- SILVER PALM (COCOTHRINAX ARGENTATA)
- ZOMBIE PALM (ZOMBIA ANTILLARUM)

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

4. CANOPY PRUNING SPECIFICATIONS

4.1. TREES

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

4.2. PALMS

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

5. RELOCATION SPECIFICATIONS

5.1. GENERAL

- 5.1.1. LANDSCAPE CONTRACTOR TO FLAG ALL PROPOSED PLANT LOCATIONS FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION. NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF 15 DAYS PRIOR TO REVIEW.
5.1.2. ALL TREES AND PALMS TO BE RELOCATED MUST BE WATERED DAILY FOR AT LEAST 5 DAYS PRIOR TO ANY RELOCATION TO ENSURE THAT THEY ARE FULLY HYDRATED. EACH WATERING MUST THOROUGHLY SATURATE THE ROOTBALL TO ITS FULL DEPTH.
5.1.3. ALL ROOTBALLS MUST BE WRAPPED IN BURLAP AND THEN TIGHTLY WIRE-WRAPPED (USING REDLINE HORSE WIRE OR EQUIVALENT) TO KEEP THE ENTIRE ROOTBALL INTACT DURING RELOCATION. TREES AND PALMS GROWING IN LIMESTONE MUST BE DUG AND RELOCATED WITH THE ROOTS ATTACHED TO A SECTION OF ROCK AS PART OF THE ROOTBALL, SUCH THAT THE ROOTS REMAIN INTACT. ROOTBALLS COMING FROM SAND OR SANDY SOIL MAY ALSO NEED TO BE BOXED PRIOR TO RELOCATION, AT THE DISCRETION OF THE LANDSCAPE ARCHITECT.
5.1.4. TREES AND PALMS BEING RELOCATED OFFSITE MUST HAVE THEIR ENTIRE ROOTBALLS THOROUGHLY AND TIGHTLY WRAPPED WITH PLASTIC SHRINK WRAP ON THE OUTSIDE OF THE WIRE WRAP, AND THE ENTIRE TREE OR PALM (INCLUDING CANOPY, TRUNK, AND ROOTBALL) MUST BE COVERED WITH A BREATHABLE TARP (E.G., SHADE CLOTH) DURING TRANSPORT.
5.1.5. NEW PLANTING PITS FOR RELOCATED TREES AND PALMS MUST BE PREPARED PRIOR TO LIFTING THE PALM OR TREE FROM ITS CURRENT LOCATION AND MUST BE AT LEAST 3-4 FEET WIDER THAN THE ROOTBALL AND THE SAME DEPTH AS THE ROOTBALL, SUCH THAT THE FINAL ELEVATION OF THE TOP OF THE ROOTBALL IS AT OR SLIGHTLY ABOVE (NO MORE THAN 2" HIGHER) FINAL GRADE.
5.1.6. TREES AND PALMS TO BE RELOCATED MUST BE LIFTED BY THE ROOTBALL ONLY, USING APPROPRIATELY SIZED (LENGTH AND STRENGTH) LIFTING STRAPS OR CHAINS. DURING LIFTING, THE TREE OR PALM MUST BE BALANCED IN A MORE-OR-LESS UPRIGHT POSITION, WITH THE STRAP ON THE TRUNK USED ONLY FOR BALANCING AND MANEUVERING THE TREE OR PALM INTO POSITION. NO CHAINS MAY BE USED AROUND OR AGAINST THE TRUNK AT ANY TIME. AT NO TIME SHALL 100% OF THE WEIGHT OF THE TREE OR PALM BE ON THE STRAP ATTACHED TO THE TRUNK. TRUNKS MUST BE HEAVILY PADDED WITH 30-60 LAYERS (DEPENDING ON SIZE AND WEIGHT) OF BURLAP BENEATH THE BALANCING STRAP.
5.1.7. TREES AND PALMS MUST BE LIFTED WITH A CRANE OR BACKHOE APPROPRIATELY SIZED FOR THE SIZE AND WEIGHT OF THE TREE OR PALM AND LIFTED OR CARRIED DIRECTLY TO THE FINAL INSTALL LOCATION OR TRANSPORT TRAILER.
5.1.8. ONCE LIFTING BEGINS, ANY UNCLUT 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/MULCH) SOIL MIX THOROUGHLY BLENDED TOGETHER. DO NOT USE MUDDY SOIL AS BACKFILL. (SEE 5.2.2 BELOW FOR SPECIAL CONDITIONS REGARDING DATE PALM BACKFILL SPECIFICATIONS.)
5.1.12. SMALL TREES AND PALMS MUST BE FIRMLY BRACED USING A MINIMUM OF FOUR 4" X 4" WOODEN BRACES ATTACHED TO 2" X 4" WOODEN BATTENS HELD IN PLACE WITH TWO STEEL BANDS. LARGER TREES MAY REQUIRE 6" X 6" WOODEN POSTS OR EVEN TELEPHONE POLES TO PROVIDE SUFFICIENT BRACING STRENGTH TO PREVENT TOPPLING DURING WIND EVENTS. A SUFFICIENT NUMBER OF BATTENS MUST BE STRATEGICALLY PLACED AROUND THE TRUNK SUCH THAT THE STEEL BANDS NEVER CONTACT THE TRUNK. NO BURLAP IS TO REMAIN UNDER THE WOODEN BATTENS ON TREES DURING BRACING, BUT SECTIONS 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 (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

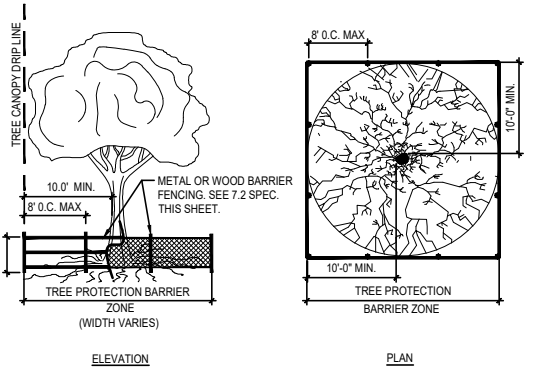
- 6.4.1. STRING MUST BE REMOVED FROM THE TIED UP LEAVES IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION IF THE PALM WAS ROOT PRUNED OR WITHIN 30-45 DAYS AFTER RELOCATION ON THE OCCASION THE LANDSCAPE ARCHITECT APPROVED RELOCATION WITHOUT ROOT PRUNING DUE TO TIME CONSTRAINTS.
6.4.2. IMMEDIATELY AFTER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

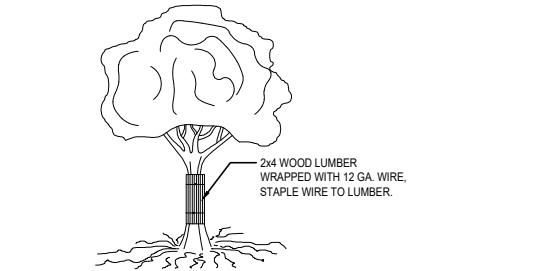
- 7.1. TREE PROTECTION FENCES SHALL BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION ACTIVITY INCLUDING GRUBBING FOR ALL TREES / PALMS TO REMAIN OR BE RELOCATED.
7.2. FENCES SHOULD BE OF STURDY CONSTRUCTION. STURDY TEMPORARY BARRIERS SHALL BE INSTALLED AROUND ALL TREE PROTECTION ZONES. BARRIERS SHALL BE A MINIMUM 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 RAILS. POSTS MAY BE SHIFTED 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

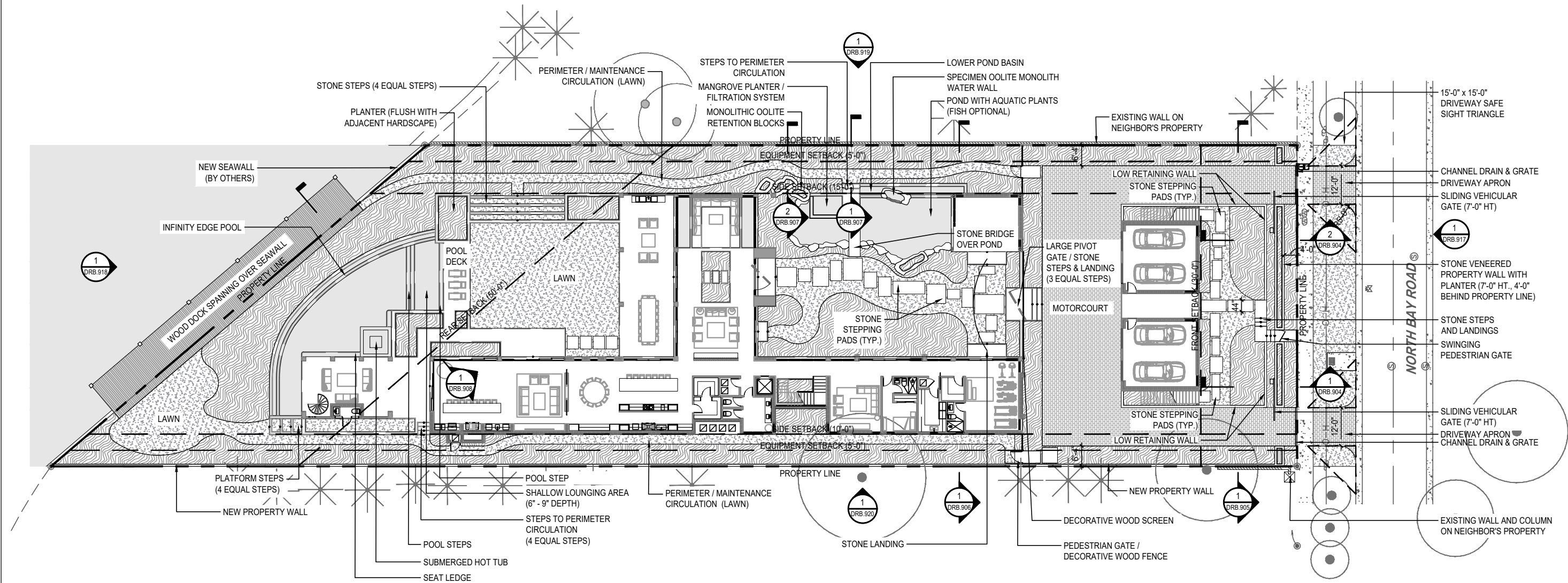
- 8.1. ALL RELOCATED TREES AND PALMS MUST BE GUARANTEED FOR ONE YEAR FROM THE DATE OF RELOCATION TO THEIR FINAL LOCATIONS.
8.2. IF A TREE OR PALM DIES WITHIN THE 1-YEAR WARRANTY PERIOD, IT MUST BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.
8.3. IF A TREE OR PALM PERFORMS POORLY WITHIN THE 1-YEAR WARRANTY 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



LEGEND

PROPERTY LINE	STONE STEPPING PAD	DRIVEWAY STONE (T.B.D.)	WOOD DECK
SETBACK LINE	PLANTING AREA	WATER	
OFF-SITE TO REMAIN	LAWN	STEP RISER	
PALM			
TREE			

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GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING / VERIFYING ALL QUANTITIES.
2. GENERAL CONTRACTOR SHALL SUBMIT, OBTAIN AND KEEP RECORDS OF ALL PERMITTING REQUIRED BY LOCAL CODES.
3. PRIOR TO ANY CONSTRUCTION, CONTRACTOR SHALL LOCATE ALL ABOVE AND UNDERGROUND UTILITIES. UTILITIES SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.
4. ALL MATERIALS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT.
5. ALL MATERIAL AND ELEMENT LOCATIONS/LAYOUT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
6. ALL ELEMENTS CALLED OUT ON THE HARDSCAPE PLAN SHALL BE MOCKED-UP FOR CLIENT AND LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL. CONTRACTOR TO REWORK MOCK-UP AS NECESSARY FOR APPROVAL. MAINTAIN APPROVED MOCK-UP FOR COMPARISON OF FINISHED WORK.
7. OVERALL PLAN IS FOR REFERENCE ONLY. ENLARGED PLANS GOVERN IN REGARDS TO LAYOUT AND DIMENSIONING.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE IN ACCORDANCE WITH THE FLORIDA STORM WATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, LATEST REVISION, AND IN ACCORDANCE WITH MIAMI-DADE COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT FOR ALL EARTHWORK AND SOIL DISTURBING ACTIVITIES.

0 8' 16' 32'
SCALE:1/32" =1'-0"



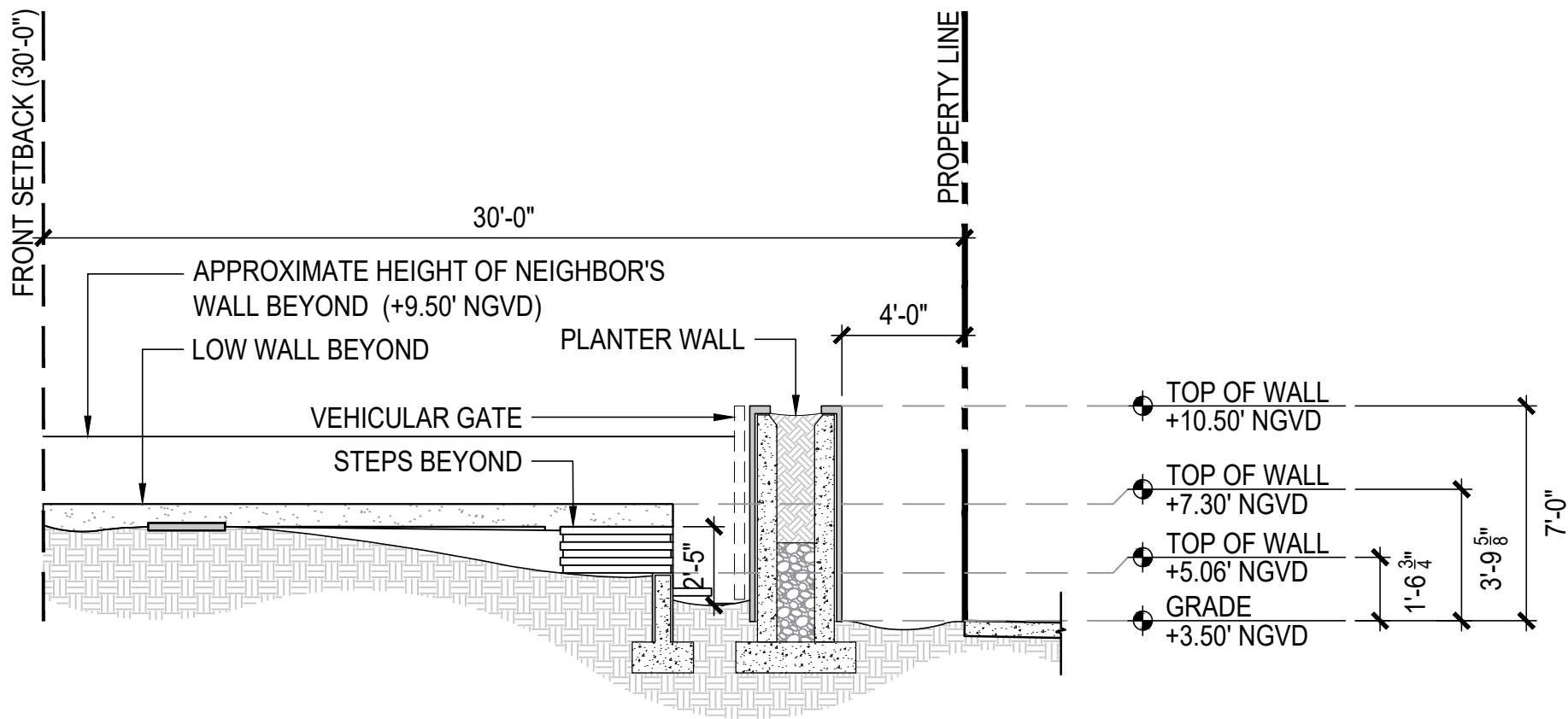
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2050 N Bay Road
Miami Beach, FL 33140
HARDSCAPE PLAN

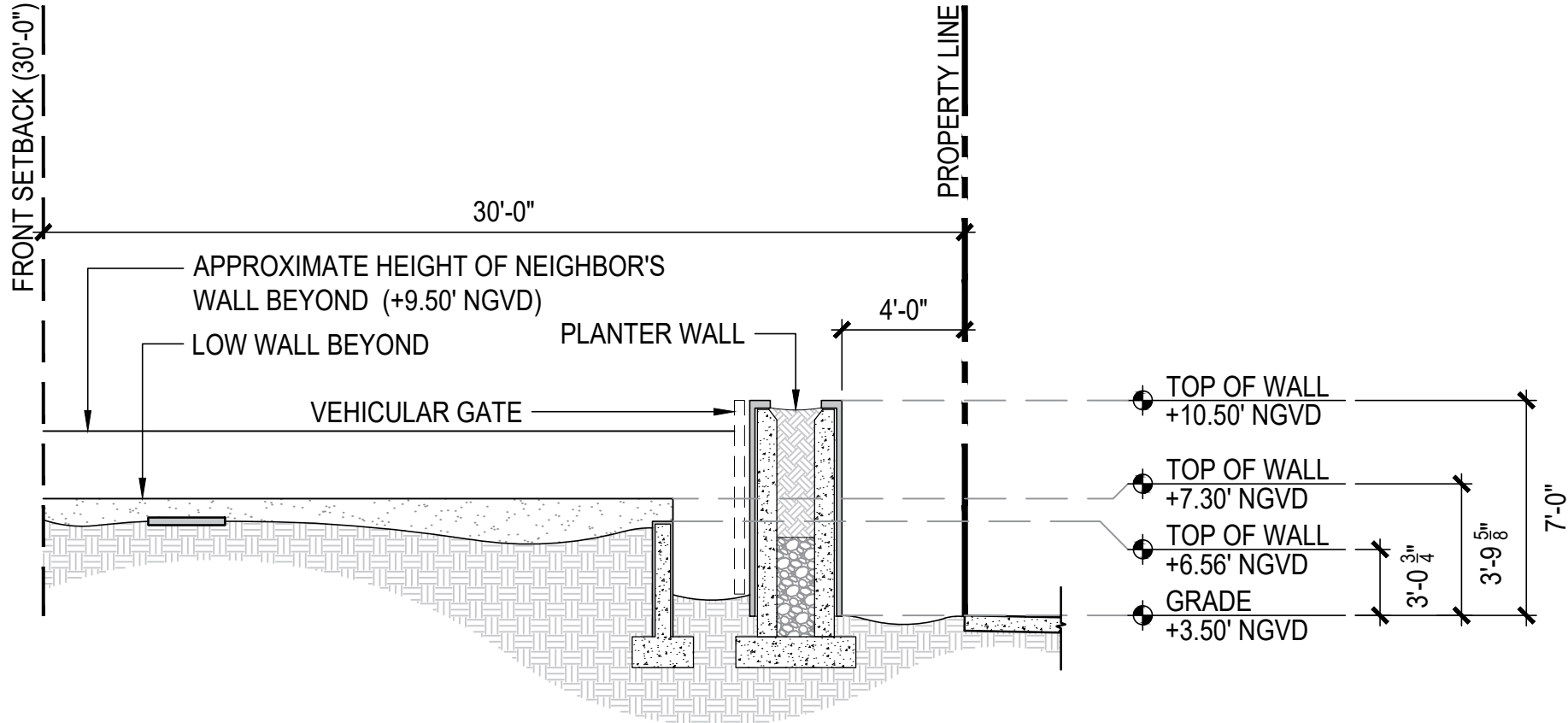
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LA0000856

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CMA Design Studio, Inc.
ARCHITECTURE PLANNING INTERIOR DESIGN
232 Andalusia Avenue Suite 101 Coral Gables, Florida 33134 T: 305.448.4200



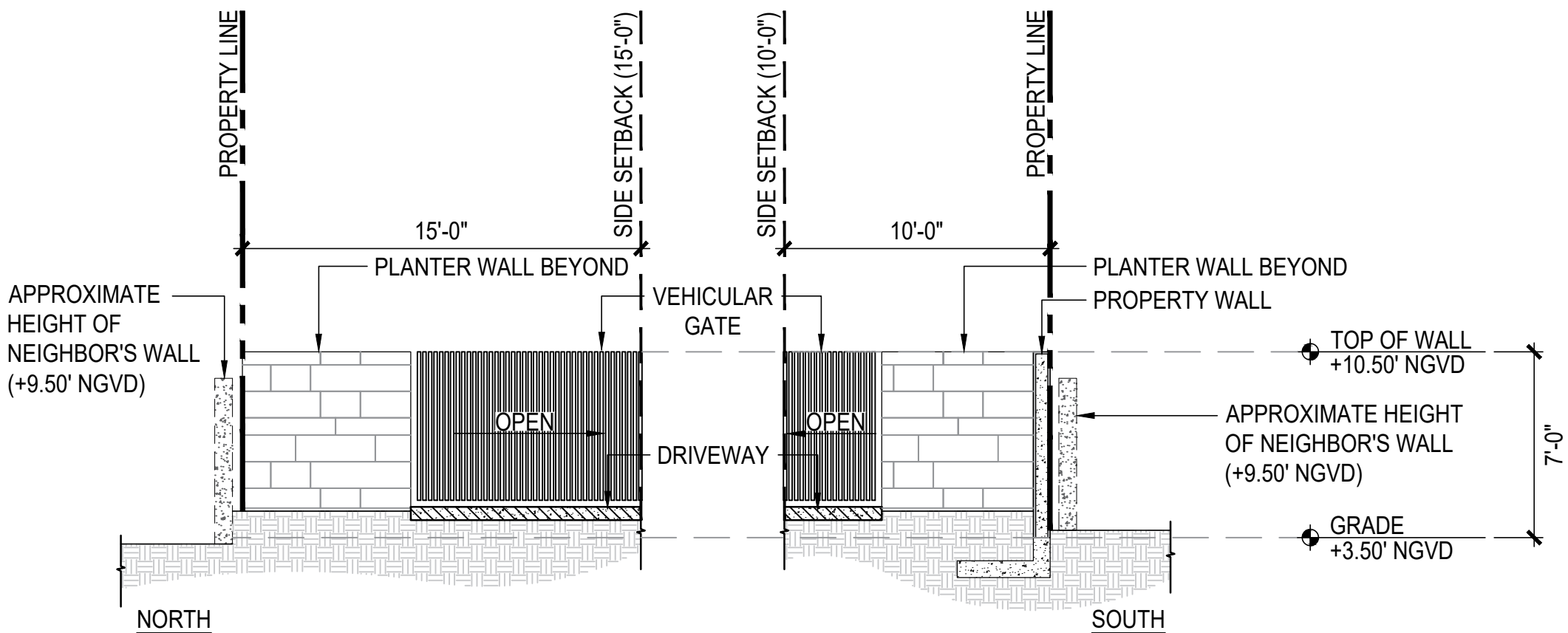
1 REQUIRED FRONT YARD (EAST)
Scale: 3/16" = 1'- 0"



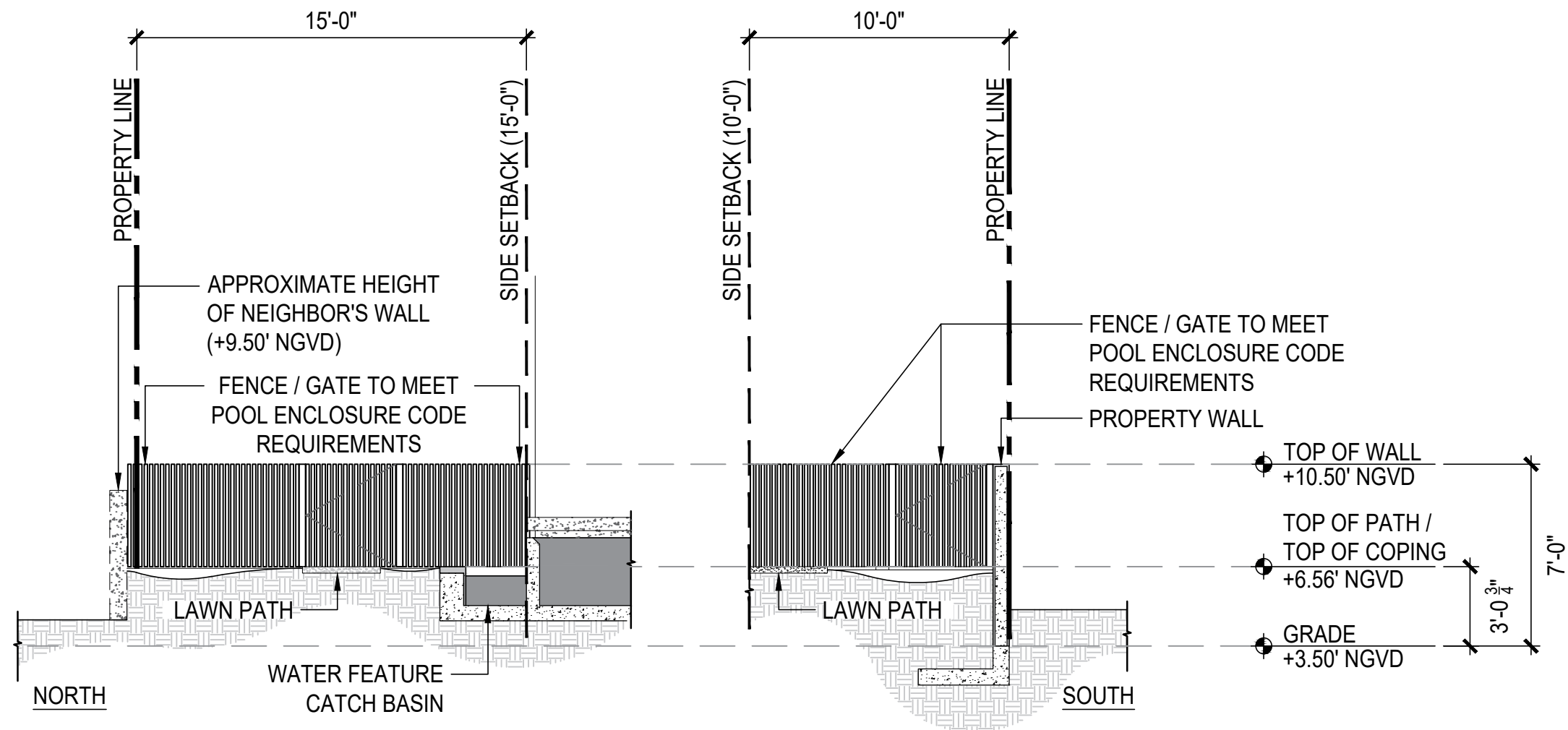
2 REQUIRED FRONT YARD (EAST)
Scale: 3/16" = 1'- 0"

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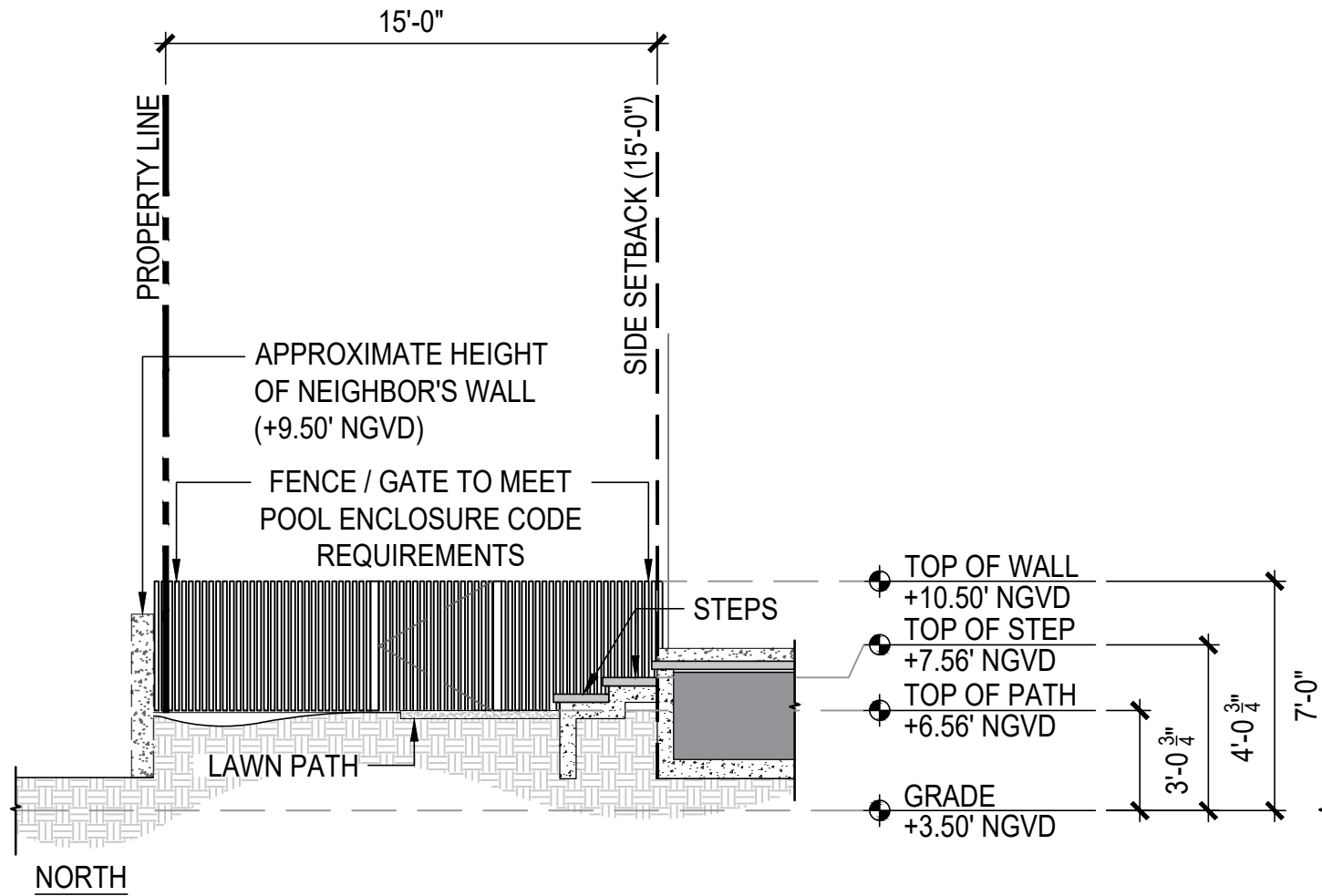
NOTE: VEHICULAR GATE TO ALLOW 50% VISIBILITY.



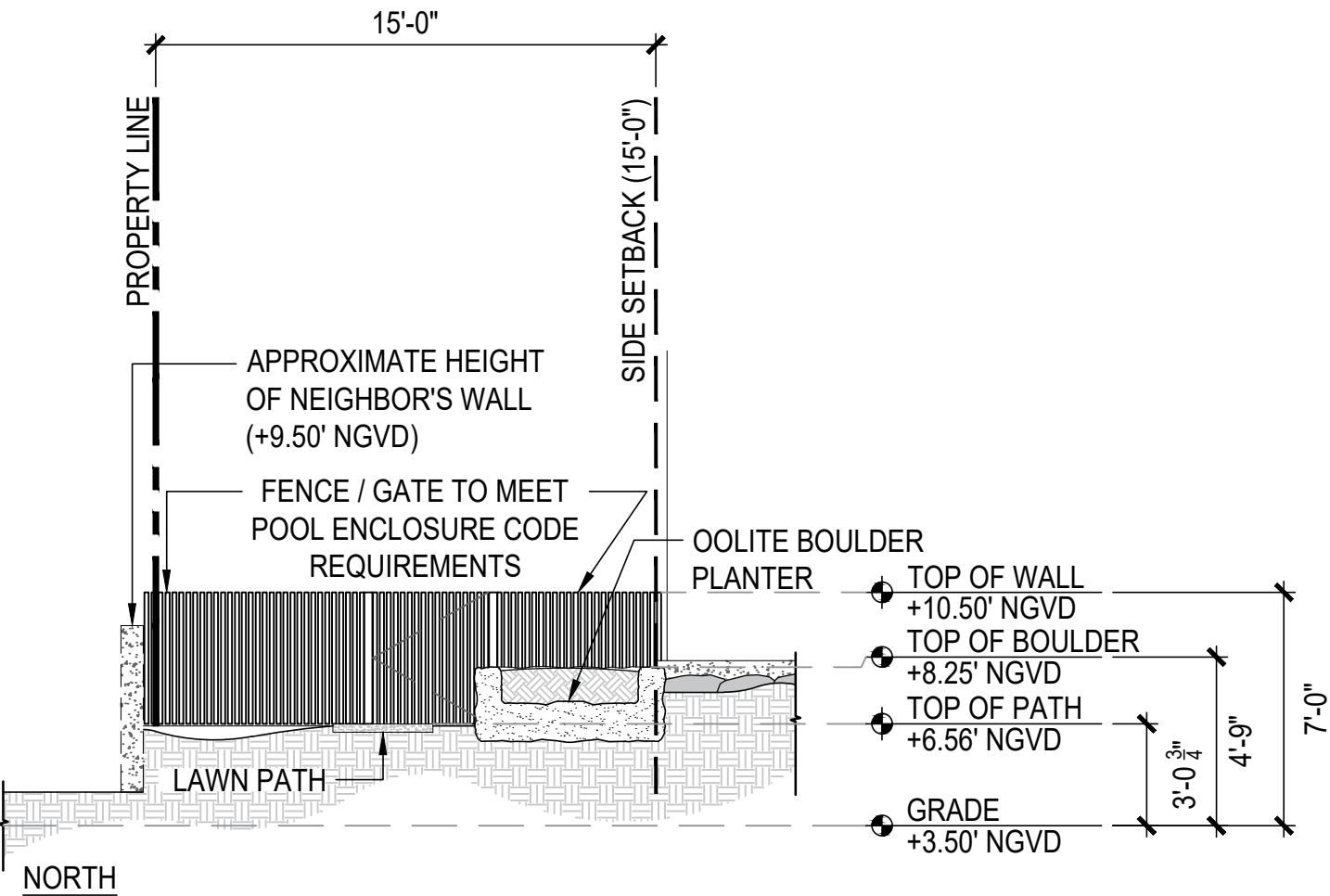
1 REQUIRED SIDE YARD (NORTH & SOUTH)
Scale: 3/16" = 1'- 0"



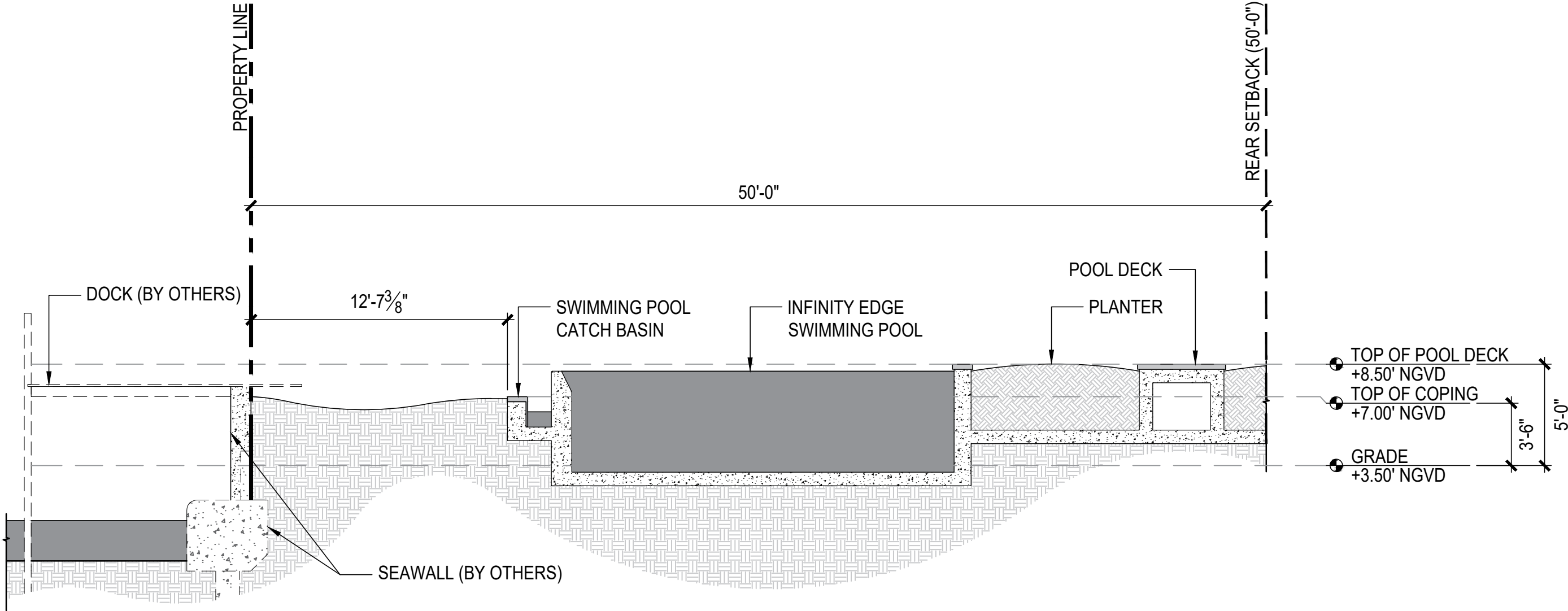
1 REQUIRED SIDE YARD (NORTH & SOUTH)
Scale: 3/16" = 1'- 0"



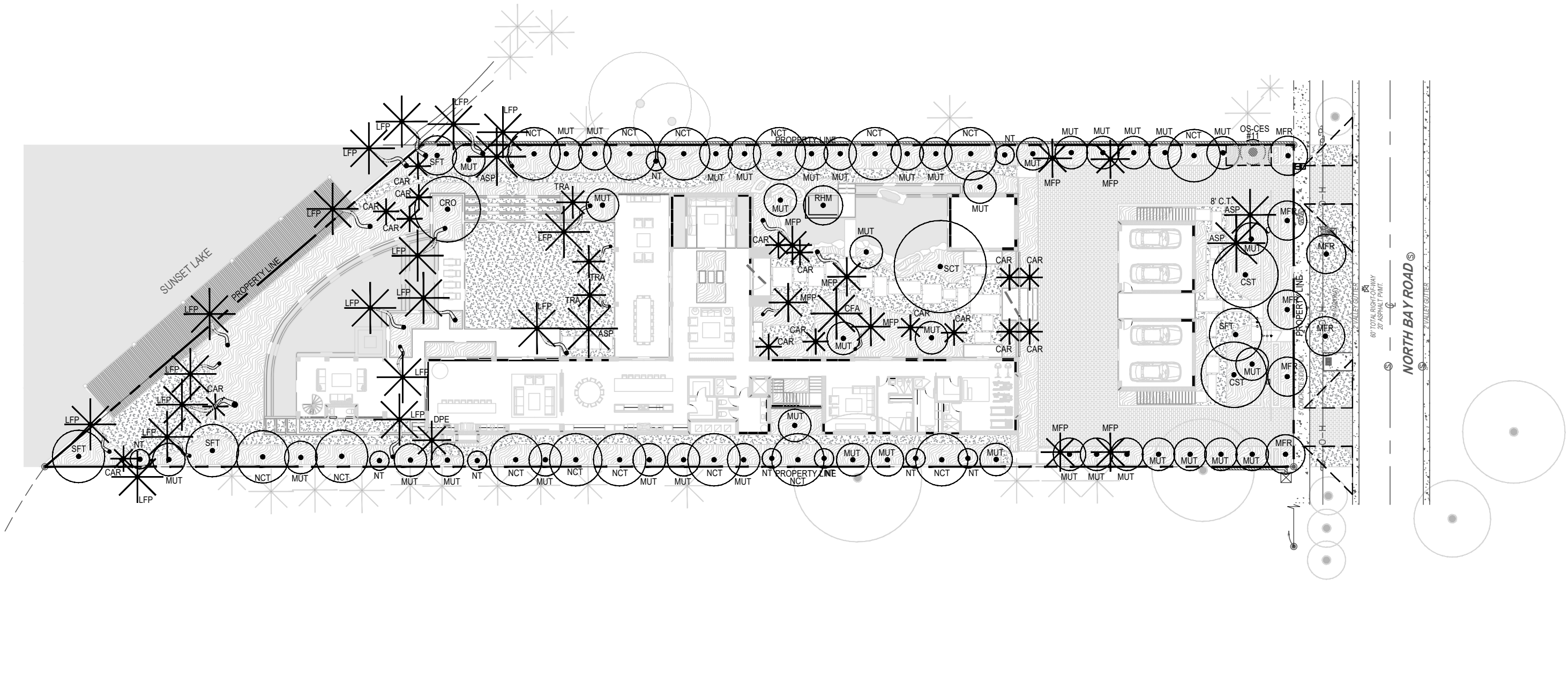
1 REQUIRED SIDE YARD (NORTH)
Scale: 3/16" = 1'- 0"



2 REQUIRED SIDE YARD (NORTH)
Scale: 3/16" = 1'- 0"



1 REQUIRED REAR YARD (WEST)
Scale: 3/16" = 1'- 0"



LEGEND

PROPERTY LINE

SETBACK LINE

PLANTING AREA

LAWN

TREE PROTECTION BARRIER

TREE

EXISTING TO RELOCATED

PROPOSED

PROPOSED CHARACTER PALM

OFF-SITE

PALM

N/A

TREE

GENERAL NOTES:

1. THE LANDSCAPE CONTRACTOR SHALL PROVIDE PHOTOGRAPHS OF ALL TREES AND PALMS FOR THE LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO SHIPMENT OF PLANT MATERIAL

2. ALL QUANTITIES IN PLANT MATERIAL SHALL BE VERIFIED BY THE LANDSCAPE ARCHITECT UPON DELIVERY. ANY QUANTITIES IN PLANT MATERIAL THAT IS NOT USED SHALL BE CREDITED BACK TO THE CLIENT OR PLACED ELSEWHERE ON SITE BY THE LANDSCAPE ARCHITECT.

3. CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED LOCATIONS PER SITE PLAN AND CALL FOR INSPECTION BY THE LANDSCAPE ARCHITECT A MINIMUM OF 3 BUSINESS DAYS PRIOR TO INSTALLATION.

4. THE LANDSCAPE ARCHITECT SHALL RESERVE THE RIGHT TO REDIRECT THE POSITIONS AND QUANTITIES OF EACH INDIVIDUAL SPECIMEN. SUBSTITUTIONS AND LANDSCAPING MATERIAL POSITION CHANGES MAY ONLY BE MADE AFTER CONSULTATION WITH THE LANDSCAPE ARCHITECT, THE CITY URBAN FORESTER AND PLANNING STAFF.

5. MATERIAL PLANTED WITHOUT SPECIFIC DIRECTION FROM THE LANDSCAPE ARCHITECT SHALL BE REPLANTED AS DIRECTED AT NO ADDITIONAL COST TO THE CLIENT.

6. SUBSTITUTIONS MAY ONLY BE MADE AFTER CONSULTATION WITH THE LANDSCAPE ARCHITECT, THE CITY URBAN FORESTER AND PLANNING STAFF.

7. CONTRACTORS SHALL ADHERE TO PLANT SPECIFICATIONS AND DETAILS.

8. CONTRACTOR SHALL WARRANTY ALL PLANT MATERIAL FOR ONE YEAR MINIMUM FROM THE TIME OF SUBSTANTIAL COMPLETION.

9. ALL PLANT MATERIAL SHALL BE FLORIDA #1 GRADE OR BETTER.

9. ALL WORK AND/OR IMPROVEMENTS WITHIN THE RIGHT-OF-WAY, INCLUDING LANDSCAPING AND IRRIGATION, REQUIRES A SEPARATE CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT RIGHT-OF-WAY CONSTRUCTION PERMIT.

ONE YEAR MAINTENANCE PLAN:

1. WATERING: ALL NEW TREES AND PALMS SHALL BE WATERED DAILY FOR THE FIRST TWO WEEKS AT HIGH VOLUME. THEY SHALL BE WATERED EVERY-OTHER DAY FOR THE FOLLOWING TWO MONTHS. THEY SHALL BE WATERED TWICE PER WEEK FOR THE REMAINDER OF THE YEAR.

2. FERTILIZING: ALL NEW TREES AND PALMS SHALL BE FERTILIZED SIX WEEKS AFTER INSTALLATION USING GRANULAR 8-2-12 "PALM SPECIAL" PRODUCT AT STANDARD RATES.

3. FERTILIZER SHALL BE RE-APPLIED ONCE EACH THREE MONTHS.

4. PEST CONTROL: PEST CONTROL TREATMENTS SHALL BE PROVIDED AS NEEDED, FOLLOWING INTEGRATED PEST MANAGEMENT PRACTICES (IPM).

5. PRUNING: THERE SHALL BE NO PRUNING OF NEWLY PLANTED TREES OR PALMS DURING THE FIRST YEAR AFTER INSTALLATION EXCEPT TO REMOVE DEAD, DAMAGED, OR DISEASED BRANCHES.

6. ONE YEAR GUARANTEE: ALL PLANT MATERIAL TO HAVE ONE YEAR GUARANTEE. TO BEGIN THE DAY OF FINAL APPROVAL.

0 8' 16' 32'

SCALE:1/32" =1'-0"

DRB SET 10.12.20

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CMA Design Studio, Inc.

ARCHITECTURE PLANNING INTERIOR DESIGN

232 Andalusia Avenue Suite 101 Coral Gables, Florida 33134 T: 305.448.4200

Grutman Residence

2050 N Bay Road

Miami Beach, FL 33140

CANOPY PLAN

SEAL

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Raymond Jungles, Inc

Florida License No: LA0000856

SHEET NO.:

DRB-910



PROPERTY LINE

PLANTING LABEL

XX
XXX

VINE

PLANTING AREA

SMALL SHRUB

LARGE SHRUB

UNDERSTORY PALM

- ONE YEAR MAINTENANCE PLAN:

- 0 8' 16' 32'
-
- SCALE: 1/32" = 1'-0"



DRB SET 10.12.20

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Florida License No:
LA0000856

ORB-912

Miami Beach, FL 33140

UNDERSTORY PLAN-2ND FLOOR

ARCHITECTURE PLANNING INTERIOR DESIGN

252 Andalusia Avenue Suite 101 Coral Gables, Florida 33154 I: 305.448.4200

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2050 North Bay Road Garden | Proposed Plant List

Miami Beach, Fl.

12-Oct-20

TREES				
QTY	SYM	Botanical Name	Common Name	Specifications
1	CRO	Clusia rosea	Autograph Tree	Specimen; 16' HT. x 12' SPR.; 6" D.B.H.; Character trunk (minimum)
7	MFR	Myrcianthes fragrans	Simpson's Stopper	12' HT. x 6' SPR.; 2" Cal.; Multi-trunk; 4'-0" clear trunk (minimum)
1	RHM	Rhizophora mangle	Red Mangrove	12' HT. x 6' SPR.; 2" Cal.; Character aerial roots (minimum)
15	NCT	T.B.D.	Native Canopy Tree	16' HT. x 8' SPR.; 4" Cal. (minimum)
42	MUT	T.B.D.	Misc. Understory Trees	12' HT. x 6' SPR.; 2" Cal. (minimum)
9	NT	T.B.D.	Native Understory Trees	10' HT.; 1.5" Cal. (minimum) (30% of required trees)
4	SFT	T.B.D.	Specimen Flowering Tree	16' HT. x 8' SPR.; 4" Cal. (minimum)
2	CST	T.B.D.	Character Specimen Canopy Tree	Specimen, 20' HT. x 14' SPR.; 10" D.B.H.; Character trunk (minimum)
1	SCT	T.B.D.	Specimen Canopy Tree	Specimen; 24' HT. x 16' SPR.; 18" D.B.H. (minimum)

PALMS				
QTY	SYM	Botanical Name	Common Name	Specifications
4	ASP	Attalea sp.	American Oil Palm	Specimen; To be selected by Landscape Architect
16	CAR	Coccothrinax argentata	Florida Silver Palm	To be selected by Landscape Architect
1	CFA	Copemicia fallaense	Same	Specimen; To be selected by Landscape Architect
1	DPE	Dypsis pembana	Pemba Palm	45 Gal.; 12' HT.; 5-trunks min.
8	MFP	T.B.D.	Medium-scale Feather Palm	To be selected by Landscape Architect
18	LFP	T.B.D.	Large-scale Feather Palm	To be selected by Landscape Architect
3	TRA	Thrinax radiata	Green Thatch Palm	13'-21' WD; Staggered heights; Character trunks

MEDIUM SHRUBS				
QTY	SYM	Botanical Name	Common Name	Specifications
10	CW	Canella winterana	Wild Cinnamon Bark	6' HT. x 4; SPR.; FTB
1	PG	Portlandia grandiflora	Bell Flower	6' HT. x 4' SPR.

LOW SHRUBS				
QTY	SYM	Botanical Name	Common Name	Specifications
26	CF	Clusia fluminensis	Same	7 Gal.; 24" Ht.; Full
3	GT	Gardenia taitensis 'Mini'	Dwarf Tahitian Gardenia	7 Gal.; 24" HT.; Full
33	LS	T.B.D.	Misc. Low Native Shrubs	3-7 Gal.; 24"-36" HT.; Full

ACCENTS				
QTY	SYM	Botanical Name	Common Name	Specification
5	AO	Alcantarea 'Odorata'	Same	7 Gal.; Full
3	AI	Alcantarea imperialis	Same	7 Gal.; Full
1	CS	Ceratozamia sp.	Same	25 Gal.
10	CE	Colocasia esculenta 'Black Magic'	Same	3 Gal.; 24" HT.
1	EG	Encephalartos gratus	Same	45 Gal.; 8' HT. x 6' SPR.
1	EE	Etlingera elatior	Torch Ginger	15 Gal.
3	HS	Heliconia sp.	Same	15 Gal.
15	MD	Monstera deliciosa	Swiss Cheese Vine	7 Gal.; Mature leaves
3	PS	Philodendron sp.	Same	7 Gal.
4	PW	Philodendron wilsonii	Same	7 Gal.
11	PJ	Portea 'Jungles'	Same	7 Gal.; Full
10	ZF	Zamia floridiana	Coontie	3 Gal.; 18" HT.; Full

GRASSES				
QTY	SYM	Botanical Name	Common Name	Specification
135	ER	Eragrostis elliptii	Silver Lovegrass	1 Gal.; Full; 18" O.C.
68	MC	Muhlenbergia capillaris	Pink Muhly Grass	3 Gal.; Full; 24" O.C.
2	TD	Tripsacum dactyloides	Fakahatchee Grass	3 Gal.; 24" HT.; Full

GROUNDCOVERS				
QTY	SYM	Botanical Name	Common Name	Specification
31	AS	Aglaonema sp.	Same	1 Gal. @ 24" O.C.; Full
114	BF	Bulbine frutescens 'Peach'	Desert Candles	1 Gal. @ 18" O.C.; Full
82	BR	Barleria repens	Coral Creeper	2 Gal. @ 24" O.C.; Full
84	EL	Ermodea littoralis	Golden Beach Creeper	3 Gal. @ 24" O.C.; Full
47	FJ	Farfugium japonicum 'Gigantea'	Giant Leopard plant	3 Gal. @ 24" O.C.; Full
193	GM	Glandularia maritima	Beach Verbena	1 Gal. @ 18" O.C.; Full
47	H	Hymenocallis latifolia	Spider Lily	1 Gal. @ 24" O.C.; Full
499	MS	Microsorium scolopendrium	Wart Fern	1 Gal.; Full; 24" O.C.
311	NE	Nephrolepis exaltata	Boston Fern	3 Gal.; 18" HT. @ 24" O.C.; Full
55	NC	Neomarka caerulea 'Regina'	Giant Apostle's Iris	3 Gal.; Full
157	PB	Philodendron 'Burle Marx'	Burle Marx Philodendron	3 Gal. @ 24" O.C.; Full
15	PG	Pilea Glauca	Same	1 Gal.; Full; 18" O.C.
10	PM	Phyllanthus myrtifolius 'Cascade'	Mousetail 'Cascade'	1 Gal.; Full
46	TS	Turnera subulata	White Buttercup	1 Gal.; Full; 24" O.C.

VINES				
QTY	SYM	Botanical Name	Common Name	Specification
4	BS	Bougainvillea sp.	Bougainvillea	25 Gal.
2	SF	Stephanotis floribunda	Bridal Wreath	15 Gal.

SOD				
QTY	SYM	Botanical Name	Common Name	Specification
5,992	ZIA	Zoysia japonica	Zoysia Grass	Solid Sod; Quantity shown in square feet

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2050 North Bay Road Garden | Proposed Plant List

Miami Beach, Fl.

12-Oct-20

2nd FLOOR PLANTING

UNDERSTORY TREES				
QTY	SYM	Botanical Name	Common Name	Specifications
1	SM	Suriana maritima	Bay Cedar	25 Gal.; 6' HT x 4 SPR.; Multi-trunk; Character branching

UNDERSTORY PALMS				
QTY	SYM	Botanical Name	Common Name	Specifications
2	CA	Coccothrinax argentata	Florida Silver Palm	15 Gal.; 3' HT.
22	RM	Rhaphis multifida	Finger Palm	6' HT. x 4' SPR.

ACCENTS				
QTY	SYM	Botanical Name	Common Name	Specifications
3	AI	Alcantarea imperialis	Same	3 Gal.; 18" HT.; Full
5	AO	Alcantarea 'Odorata'	Same	3 Gal.; 18" HT.; Full
3	PJ	Portea 'Jungles'	Same	3 Gal.; 18" HT.; Full
27	ZF	Zamia floridiana	Coontie	3 Gal.; 18" HT.; Full

GROUNDCOVERS				
QTY	SYM	Botanical Name	Common Name	Specifications
35	BF	Bulbine frutescens 'Peach'	Desert Candles	1 Gal. @ 18" O.C.; Full
319	EL	Ermodea littoralis	Golden Beach Creeper	3 Gal. @ 24" O.C.; Full
60	MS	Microsorium scolopendrium	Wart Fern	1 Gal.; Full; 24" O.C.
382	NE	Nephrolepis exaltata	Boston Fern	3 Gal.; 18" HT. @ 24" O.C.; Full
19	RO	Rosmarinus officinalis 'Prostratus'	Creeping Rosemary	1 Gal. @ 24" O.C.; Full

VINES				
QTY	SYM	Botanical Name	Common Name	Specification
9	CS	Clerodendrum splendens	Flaming Glory Bower	3 Gal; Trellis
2	IH	Ipomoea horsfalliae	Perennial Morning Glory	7 Gal; Trellis

2050 North Bay Road Garden | Mitigation Chart

Miami Beach, Fl.

12-Oct-20

Mitigation Chart	
Total Trees Removed Requiring Mitigation	32 (93.6 inches removed)
Proposed Trees with 12' HT. x 6' SPR.; 2" Cal. (minimum) specifications	23
Proposed Native Trees with 10' HT.; 1.5" Cal. (minimum) specifications	9 (32 x 30% = 9.6)
Total Palms Removed Requiring Tree Mitigation (1 Palm = 1 Tree)	48
Proposed Trees with 12' HT. x 6' SPR.; 2" Cal. (minimum) specifications	48

DRB SET 10.12.20

	CITY OF MIAMI BEACH LANDSCAPE LEGEND INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS		
	ZONING DISTRICT <u>RS-2</u> LOT AREA <u>33,000 SF</u> ACRES <u>0.75</u>		
	<u>OPEN SPACE</u>	REQUIRED/ ALLOWED	PROVIDED
A.	SQUARE FEET OF REQUIRED OPEN SPACE AS INDICATED ON SITE PLAN: LOT AREA = <u>33,000</u> S.F. X <u>50%</u> % = <u>16,500</u> S.F.	16,500 SF	20,550 SF
B.	SQUARE FEET OF PARKING LOT OPEN SPACE REQUIRED AS INDICATED ON SITE PLAN:	N/A	N/A
	NUMBER OF PARKING SPACES _____ X 10 S.F. PARKING SPACE =	N/A	N/A
C.	TOTAL SQUARE FEET OF LANDSCAPED OPEN SPACE REQUIRED: A+B=	16,500 SF	20,550 SF
	<u>LAWN AREA CALCULATION</u>		
A.	SQUARE FEET OF LANDSCAPED OPEN SPACE REQUIRED	16,500 SF	20,550 SF
B.	MAXIMUM LAWN AREA (SOD) PERMITTED= 50 % X 16,500 S.F. = 8,250 SF	8,250 SF	5,064 SF
	<u>TREES</u>		
A.	TREES REQUIRED PER NET LOT ACRE	32	82
	TREES ON FRONT YARD	2	13
	TRESS ON BACK YARD	3	13
	TRESS IN EXCESS OF 6,000 SF LOT (1 TREE X 1,000 SF)	27	56
	TOTAL TREES ON LOT	32	82
B.	30% NATIVES REQUIRED: 32 X 30% = 9.6	9	24
C.	50% LOW MAINTENANCE / DROUGHT AND SALT TOLERANT REQUIRED: 32 X 50% = 16	16	24
D.	STREET TREES (MAXIMUM AVERAGE SPACING OF 20' O.C.) / 20' = 5	100 LF	See Row E.
E.	STREET TREE SPECIES ALLOWED DIRECTLY BENEATH POWER LINES: (MAXIMUM AVERAGE SPACING OF 20' O.C.):	5	2
	<u>SHRUBS</u>		
A.	NUMBER OF SHRUBS REQUIRED: SUM OF LOT AND STREET TREES REQUIRED (32 + 5) X 12 = 444	444	220
B.	50% NATIVE SHRUBS REQUIRED: 444 X 50% = 222	222	85
	<u>LARGE SHRUBS OR SMALL TREES</u>		
A.	LARGE SHRUBS OR SMALL TREES (10% OF REQUIRED SHRUBS) 444 X 10% = 44.4	44	34
B.	50% NATIVE LARGE SHRUBS OR SMALL TREES REQUIRED: 44 X 50% = 22	22	11

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Grutman Residence

2050 N Bay Road
Miami Beach, FL 33140

LANDSCAPE LEGEND

SEAL

NOT FOR
CONSTRUCTION

Raymond Jungles, Inc
Florida License No:
LA0000856

SHEET NO.:

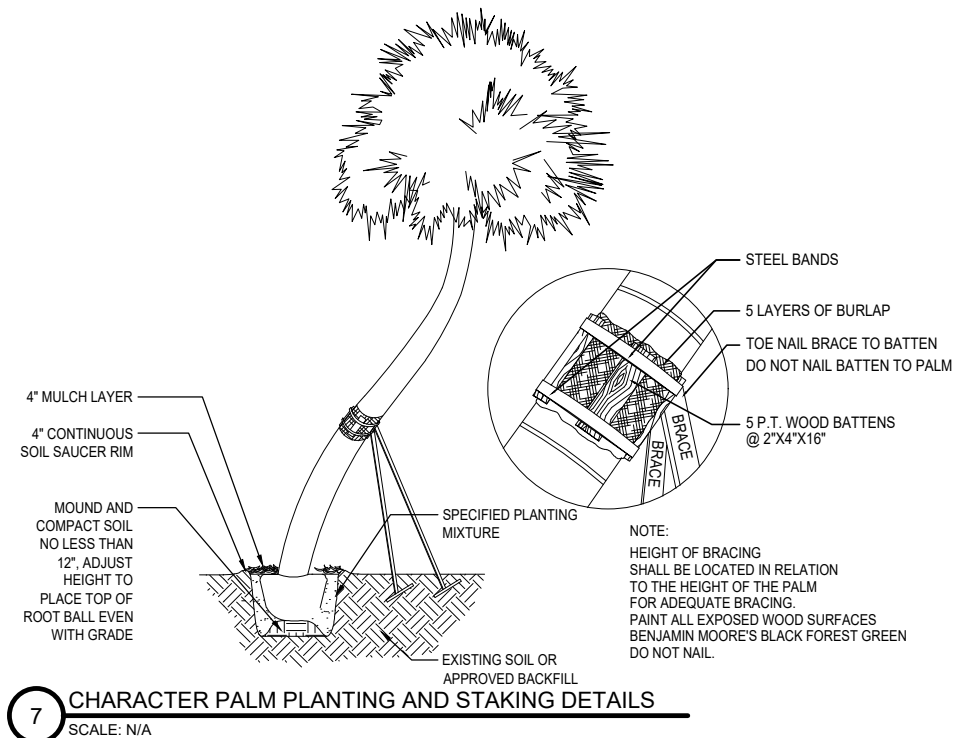
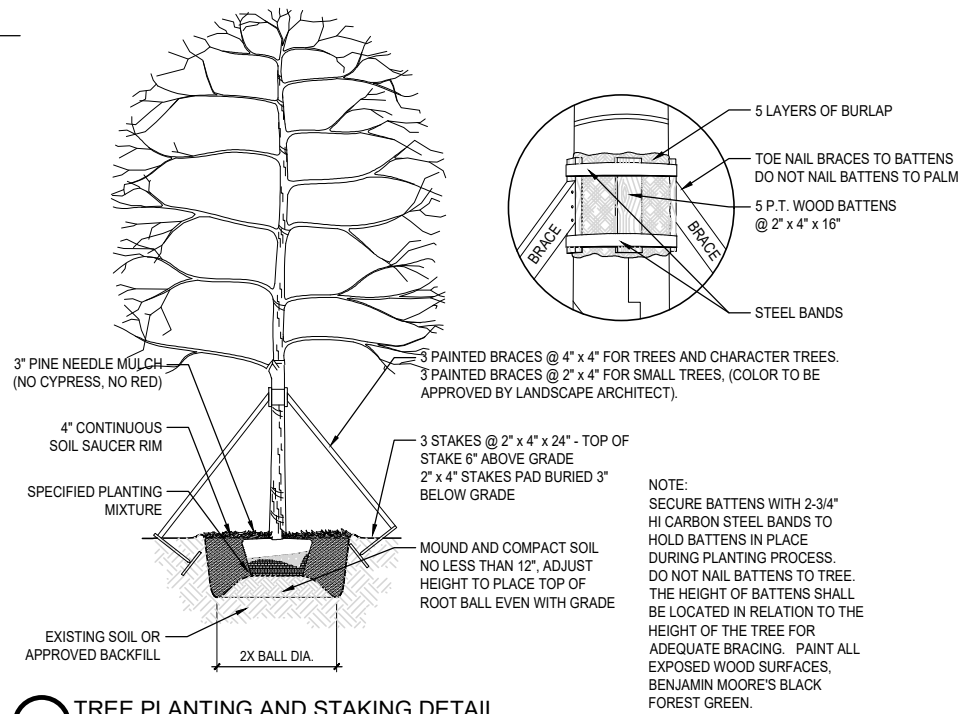
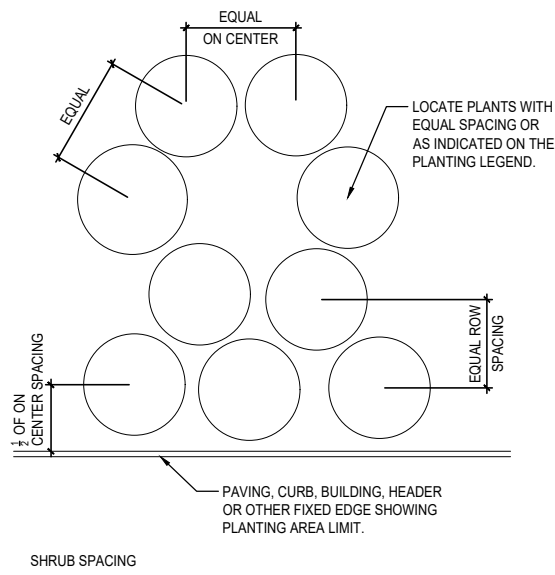
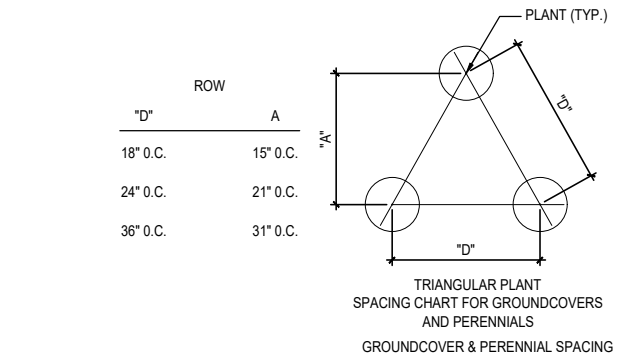
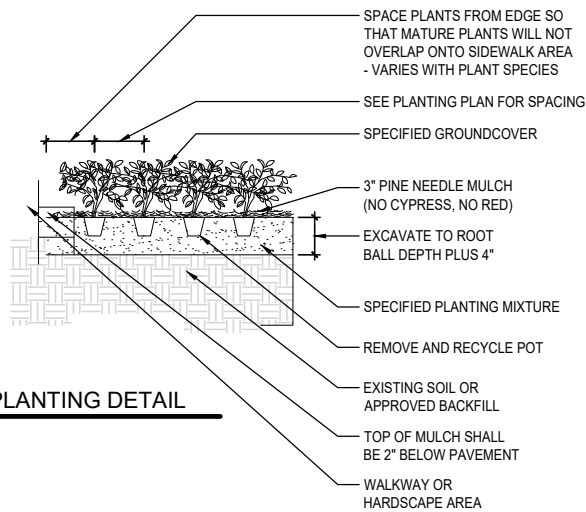
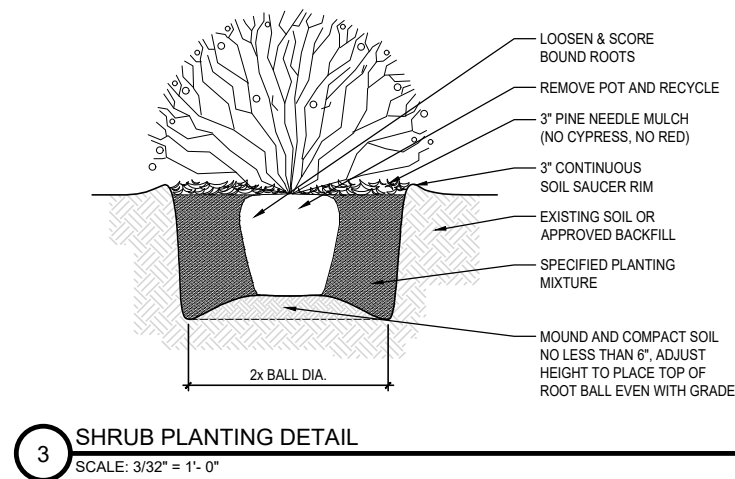
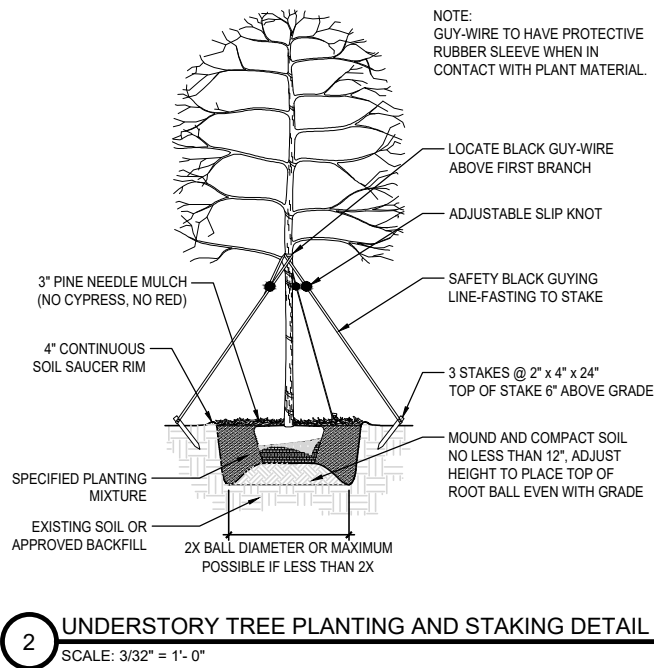
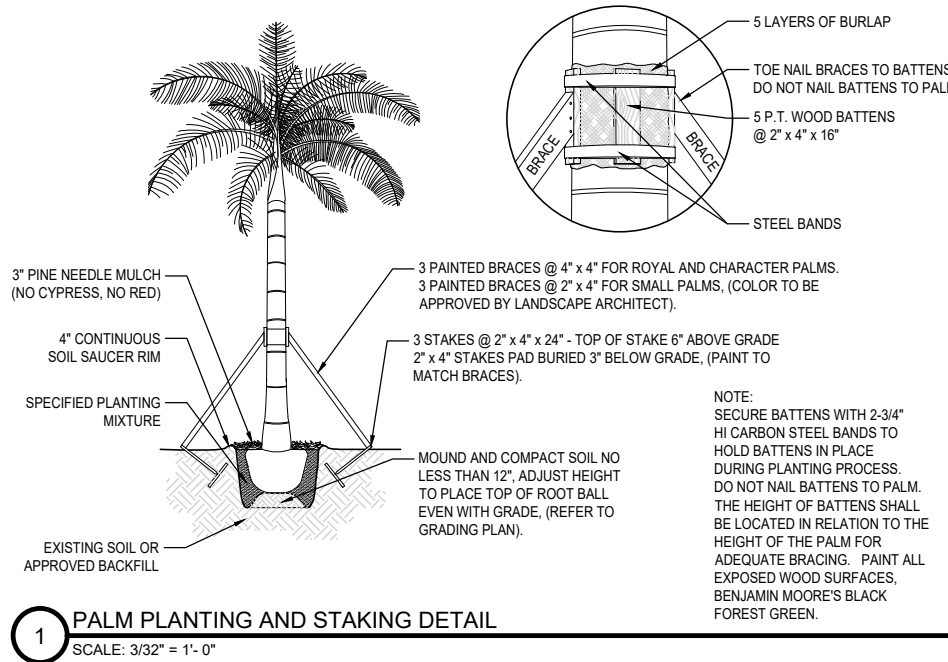
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CMA Design Studio, Inc.

ARCHITECTURE PLANNING

INTERIOR DESIGN

232 Andalusia Avenue Suite 101 Coral Gables, Florida 33134 T: 305.448.4200



GENERAL LANDSCAPE NOTES AND SPECIFICATIONS

1.

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.
2.

LANDSCAPE CONTRACTOR SHALL PROVIDE AN INSTALLATION SCHEDULE TO THE GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.
3.

LANDSCAPE CONTRACTOR SHOULD VERIFY ALL ESTIMATED QUANTITIES OF MATERIAL SHOWN ON THE LANDSCAPE ARCHITECT'S DRAWINGS PRIOR TO SUBMITTING A BID.
4.

PLANTING PLAN SHALL TAKE PRECEDENCE OVER PLANT LIST IN CASE OF DISCREPANCIES.
5.

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.
6.

ALL SIZES SPECIFIED FOR PLANT MATERIAL ON THE PLAN AND PLANT LIST SHALL BE CONSIDERED MINIMUM.
7.

ALL PLANT MATERIAL MUST MEET OR EXCEED THE SPECIFIED MINIMUM REQUIREMENTS FOR BOTH HEIGHT AND SPREAD. MEASURE ALL INSTALLED PLANTS AND COMPARE AGAINST SPECIFICATIONS.
8.

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.
9.

NO CHANGE OR SUBSTITUTION SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
10.

ALL MATERIAL SHALL BE SUBJECT TO AVAILABILITY AT TIME OF INSTALLATION. SUBSTITUTIONS MAY BE MADE AFTER CONSULTATION WITH THE LANDSCAPE ARCHITECT
11.

ALL TREES, PALMS, SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE.
12.

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.
13.

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.
14.

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.
15.

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.
16.

FOR PLANT MATERIAL DESIGNATED TO BE REMOVED, THE ENTIRE ROOT SYSTEM SHALL BE DUG AND REMOVED FROM THE SITE.
17.

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.
18.

ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER. FLORIDA DEPARTMENT OF AGRICULTURE GRADES AND STANDARDS, PARTS I & II, 1975, RESPECTIVELY.
19.

ALL TREES SHALL BE STAKED IN A GOOD WORKMANLIKE MANNER. NO NAIL STAKING PERMITTED. (REFER TO BRACING NOTES AND PLANTING DETAILS)
20.

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)
21.

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.
22.

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.
23.

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.
24.

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.
25.

ALL TREES SHALL HAVE 2" CALIPER AT D.B.H. MINIMUM FOR A 10' HEIGHT TREE, UNLESS NOTED OTHERWISE.
26.

ALL 1 GALLON MATERIAL SHALL HAVE 12" SPREAD MINIMUM, ALL 3 GALLON MATERIAL TO HAVE 20-24" SPREAD MINIMUM.
27.

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.
28.

LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER APPROPRIATE CONTRACTORS.
29.

THE LANDSCAPE CONTRACTOR SHALL AT ALL TIMES KEEP THE JOB SITE CLEAN AND FREE FROM ACCUMULATION OF WASTE MATERIAL, DEBRIS, AND RUBBISH.
30.

LANDSCAPE PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL CODES.
31.

ON-SITE LAYOUT OF PLANT MATERIAL SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT AT THE TIME OF INSTALLATION.
32.

ALL PLANTS, MATERIALS, WORKMANSHIP, AND INVOICE APPROVAL ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
33.

CONTRACTOR TO FLAG ALL PROPOSED TREE AND PALM LOCATIONS FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.
34.

LANDSCAPE ARCHITECT TO APPROVE ALL SHRUB AND GROUNDCOVER PLANTING LOCATION AND LAYOUT PRIOR TO INSTALLATION.
35.

CONTRACTOR SHALL PROVIDE DIGITAL PHOTOGRAPHIC DOCUMENTATION DURING INSTALLATION FOR LANDSCAPE ARCHITECT'S REVIEW, WEEKLY.
36.

LANDSCAPE CONTRACTOR TO INSURE ALL PLANT MATERIAL IS INSTALLED AT THE CORRECT ELEVATION, REFER TO GRADING PLAN.
37.

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.
38.

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.
39.

THE LANDSCAPE CONTRACTOR'S CONTRACT SHALL ACKNOWLEDGE ALL TERMS AND CONDITIONS SET FORTH UNDER THESE GENERAL LANDSCAPE NOTES AND SPECIFICATIONS.
40.

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41.

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.
42.

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:

1.

CHOOSE THE CORRECT SIZE, LENGTH, AND NUMBER OF PROPS TO BE USED (PRESSURE TREATED (PT), TIMBER BAMBOO (GUADUA ANGUSTIFOLIA) 3" DIA.).
2.

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.
3.

SELECT THE PROPER LENGTH AND SIZE OF BATTENS (PT 2"x4"x12"-16")
4.

USE THE SAME NUMBER OF BATTENS AS PROPS BEING USED.
5.

PLACE THE BATTENS VERTICALLY AND EVENLY SPACED AGAINST THE BURLAP.
6.

SECURE THE BATTENS IN PLACE WITH METAL OR PLASTIC BANDING STRAPS. DO NOT NAIL TREE.
7.

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.
8.

CUT A SMOOTH ANGLE AT THE END OF THE PROPS. ALIGN WITH AND NAIL INTO BATTENS. DO NOT PENETRATE TREE OR PALM WITH NAILS.
9.

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."
10.

PROPS ARE NOT TO BE REMOVED UNTIL APPROVED BY THE LANDSCAPE CONTRACTOR.

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

1.

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.
2.

CUT LENGTHS OF STAKING HOSE TO EXTEND 2 INCHES PAST TREE TRUNK WHEN WRAPPING AROUND.
3.

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.
4.

PLACE THE HOSE AROUND THE TRUNK JUST ABOVE THE LOWEST BRANCH.
5.

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.
6.

TWIST WIRE AT RUBBER HOSE TO KEEP IT IN PLACE.
7.

PULL WIRE DOWN AND WIND BOTH ENDS AROUND STAKE TWICE. TWIST WIRE BACK ONTO ITSELF TO SECURE IT BEFORE CUTTING OFF THE EXCESS.
8.

THE ABOVE PROCEDURES ARE TO BE FOLLOWED FOR EACH STAKE, KEEPING THE TREE STRAIGHT AT ALL TIMES.
9.

THERE SHOULD BE A 1 TO 3 INCH SWAY IN THE TREE (THE WIRES SHOULD NOT BE PULLED TIGHT) FOR BEST ESTABLISHMENT.
10.

FLAG THE GUY WIRES WITH SURVEYOR'S FLAGGING OR APPROVED EQUAL FOR SAFETY.
11.

ANY WIRES ARE NOT TO BE REMOVED UNTIL APPROVED BY LANDSCAPE ARCHITECT.

SHOP DRAWINGS / SUBMITTALS AND MOCK-UPS

1.

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

jungles

DRB SET 10.12.20

Grutman Residence

2050 N Bay Road
Miami Beach, FL 33140

PLANTING NOTES

SEAL

NOT FOR
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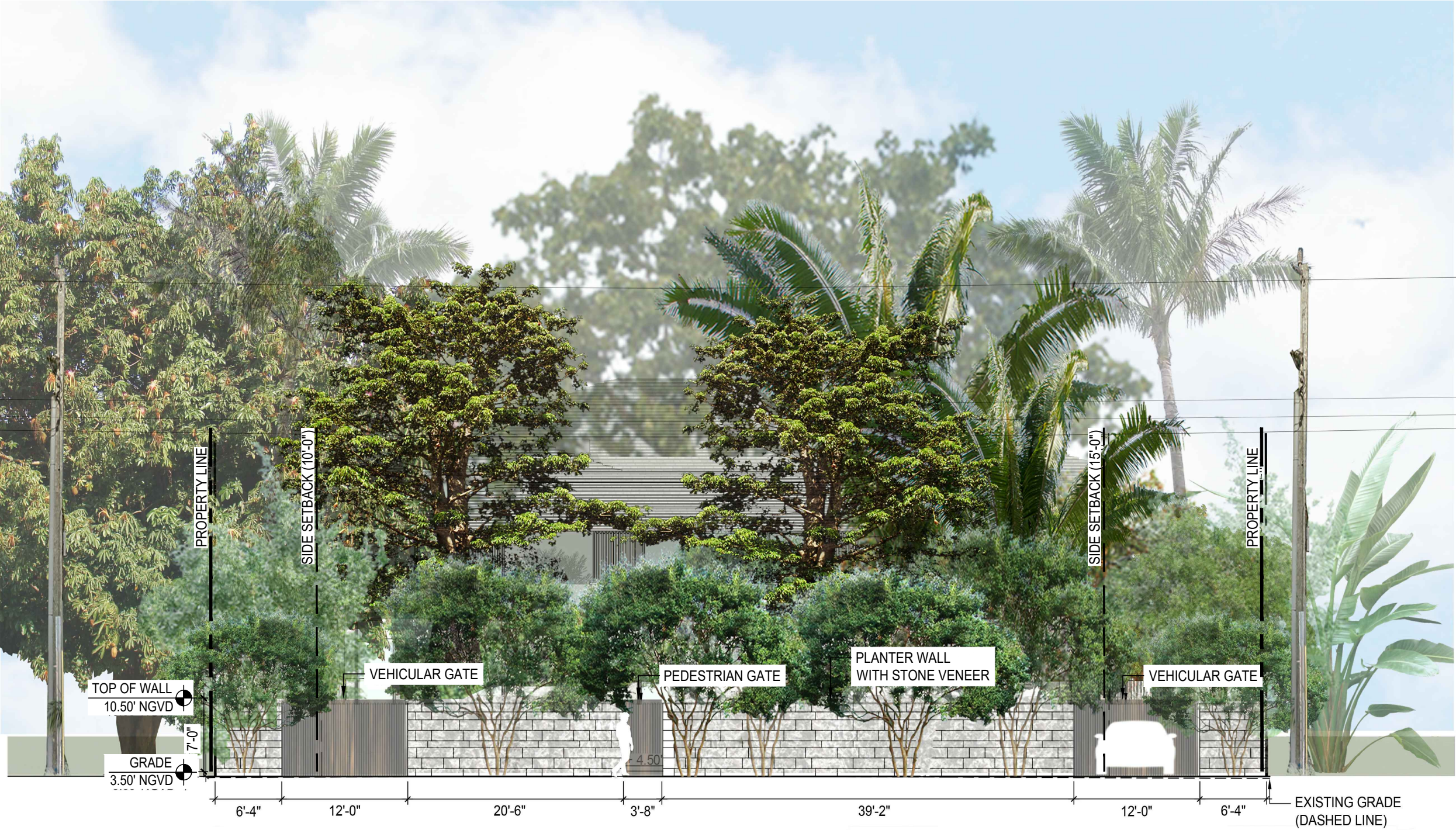
DRB-916

CMA Design Studio, Inc.

ARCHITECTURE PLANNING INTERIOR DESIGN

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NOTE: VEHICULAR GATE TO ALLOW 50% VISIBILITY.



1 EAST ELEVATION
Scale: 3/32" = 1'- 0"

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Miami Beach, FL 33140
EAST ELEVATION

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1 WEST ELEVATION
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WEST ELEVATION

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NOTE: SHARED PROPERTY WALL IS EXISTING ON NEIGHBOR'S PROPERTY.

1 NORTH ELEVATION
Scale: 1/16" = 1'-0"

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NORTH ELEVATION

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1 SOUTH ELEVATION
Scale: 1/16" = 1'- 0"

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