



NEW RESIDENCE | 790 LAKEVIEW DRIVE  
MIAMI BEACH DESIGN REVIEW BOARD FIRST SUBMITTAL: AUGUST 26, 2016  
SECOND SUBMITTAL: SEPTEMBER 6, 2016

CLIENT / PROPERTY INFORMATION

PROPERTY ADDRESS  
790 LAKEVIEW DRIVE  
MIAMI BEACH, FL 33140

EXISTING VEGETATION SUMMARY

The site is covered in invasive vegetation and small palms that do not require permits to remove (umbrella trees, northfolk island pines, and brazilian pepper). There are (3) black olives that are in conflict with the site design. The existing specimen black olive tree (#59) to be removed, is currently covered in vines and invasive vegetation, appears to have suffered serious damage from hurricanes and/or improper pruning practices. An arborist report will be provided for this tree (#59) as well as for trees (#9, 10, 32, 41, 42, 42a, 54, 55 and 66) at time of permitting. There are a few species that require approval and removal permits from CMB, the required mitigation is being provided see sheets L-2 and L-2a

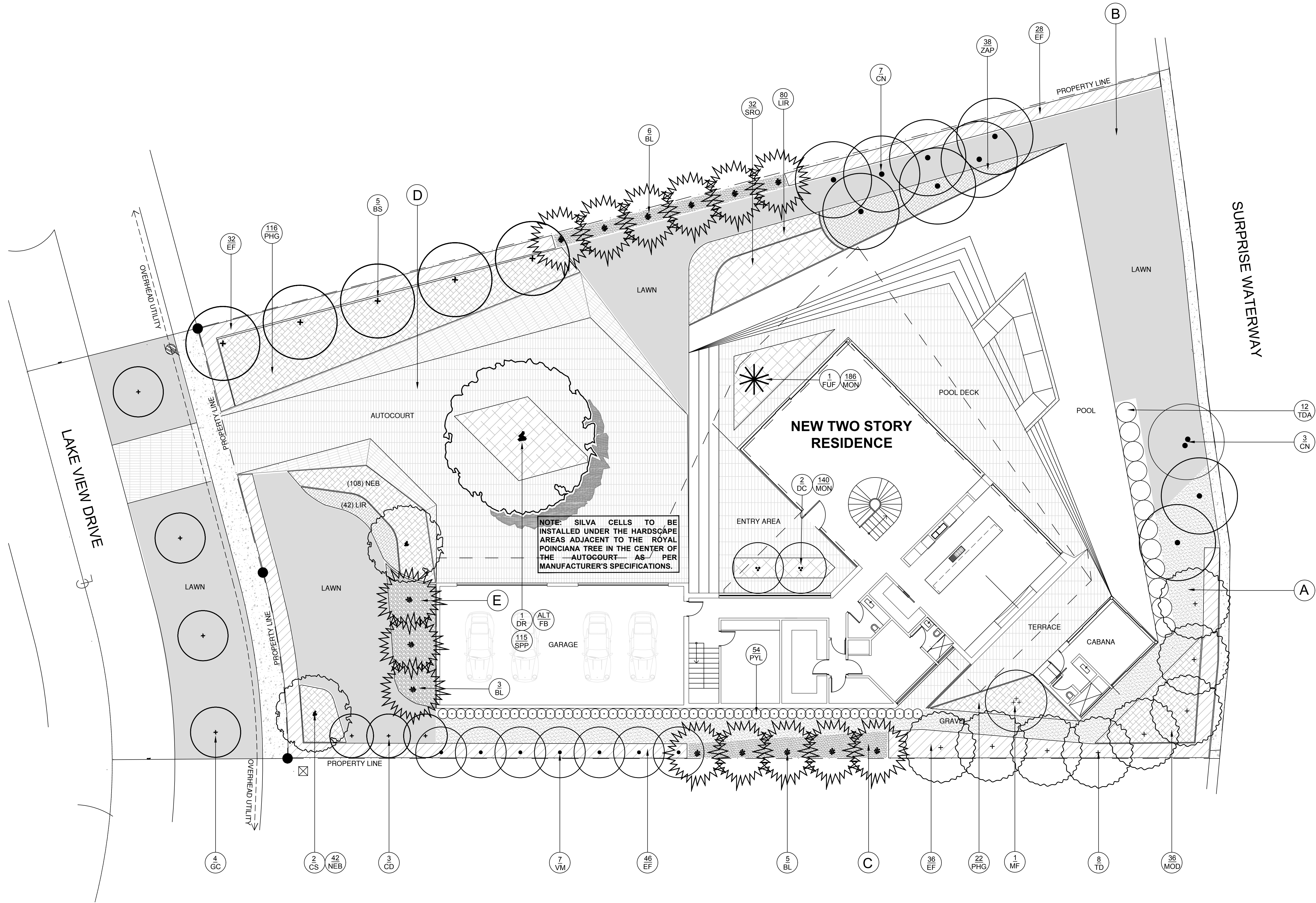
SCOPE OF WORK

- Design new landscape to complement contemporary Residence designed by DOMO Architecture.

SHEET INDEX / PROGRESS SUBMITTAL

L-0	Landscape Cover Page + Sheet Index
L-1	Landscape Plan
L-1a	Landscape Notes + Details
L-2	Existing Tree Survey
L-2a	Existing Tree Notes + Disposition Chart
L-2b	Arborist Report
L-2c	Arborist Report

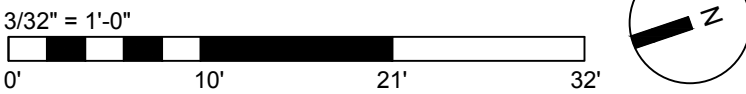




LANDSCAPE PLAN LEGEND

- A 3/8" DECOMPOSED GRANITE AGGREGATE OVER FILTER FABRIC
- B ZOYSIA 'EMPIRE' LAWN
- C AMERIGROW 'PREMIUM PINEBARK BROWN' SHREDDED MULCH
- D HARD SURFACE, REFER TO ARCHITECTURE
- E 1-2" POLISHED RIVER ROCK

LANDSCAPE PLAN





LANDSCAPE NOTES

1. ALL PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 OR BETTER.

2. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF, AVOID, AND PROTECT ALL UTILITY LINES, BURIED CABLES, AND OTHER UTILITIES.

3. TREE, PALM, ACCENT AND BED LINES ARE TO BE LOCATED IN THE FIELD AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.  
  
ANY CHANGES TO R.O.W. (RIGHT OF WAY) MATERIAL IN REGARDS TO PLACEMENT OF SPECIES SHALL REQUIRE THE APPROVAL AND CONSULTATION OF THE CITY URBAN FORESTER AND OR CITY STAFF.

4. ALL PLANTING SOIL SHALL BE 50:50 TOPSOIL:SAND MIX, FREE OF CLAY, STONES, ROCKS, OR OTHER FOREIGN MATTER. THIS SPECIFICATION INCLUDES ALL BACKFILL FOR BERMS,11. AND OTHER LANDSCAPE AREAS.

5. THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO BRING ALL GRADES TO WITHIN 2" OF FINAL GRADES. THIS SHALL INCLUDE A 2" APPLICATION OF 50:50 TOPSOIL:SAND MIX FOR ALL LANDSCAPE AND AREAS TO BE SODDED.

6. THE LANDSCAPE CONTRACTOR SHALL CALCULATE AND SUBMIT AN ITEMIZED PRICE FOR THE 2" APPLICATION OF 50:50 MIX FOR ALL SOD AREAS AS A REFERENCE IN THE CASE THAT THERE WOULD BE A DISCREPANCY BETWEEN SITE AND LANDSCAPE CONTRACTORS AND NOTIFY THE SITE CONTRACTOR OR PROJECT SUPERINTENDENT AS TO THIS DISCREPANCY. IT WILL THEN BE DETERMINED WHICH PARTY WILL PROVIDE THIS 2" TOPSOIL:SAND APPLICATION AND SUBSEQUENT PAYMENT OTHER PLANTING SOIL MIXES TO BE ADDED, I.E. FOR TREES, PALMS, SPECIMEN PLANTS, SHRUBS AND GROUND COVERS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR AND BE INCLUSIVE WITH THE LANDSCAPE BID.

7. ALL EXISTING TREE + PALM INFORMATION THAT HAS BEEN PROVIDED ON THIS PLAN FOLLOWS THE MIAMI DADE COUNTY E.R.M. TREE PERMITTING GUIDELINES. ANY TREES OR PALMS CONSIDERED INVASIVE OR THAT FALLS UNDER THE TREE PERMIT EXEMPTION / PROHIBITED SPECIES LIST 24-94 (4) MAY NOT BE SHOWN FOR CLARITY PURPOSES. ANY DISCREPANCIES IF NOTED UPON FURTHER FIELD INSPECTION SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT.

8. IRRIGATION SHALL PROVIDE FOR A 100% COVERAGE WITH 50% OVERLAP MINIMUM AND BE PROVIDED BY A FULLY AUTOMATIC IRRIGATION SYSTEM W/ RAIN MOISTURE SENSOR ATTACHED TO CONTROL VALVE. ALL FLORIDA BUILDING CODE APPENDIX "F" IRRIGATION REQUIREMENTS SHALL BE STRICTLY ADHERED TO FOR INSTALLATION AND PREVAILING WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS SHALL BE IN COMPLIANCE FOR POST-INSTALLATION WATERING SCHEDULES.CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR AND LEAVE PROVISIONS FOR ALL SLEEVING AND PIPE ROUTING. ALL UNDERGROUND UTILITIES TO BE LOCATED BY DIALING 811 AS REQUIRED BY LAW.
9. ALL PLANTING BEDS SHALL BE MULCHED TO A DEPTH OF 2" WITH A SMALL GRAY GRANITE AGGREGATE or APPROVED ORGANIC MULCH FREE FROM WEEDS AND PESTS. NO 'CYPRESS MULCH' OR 'RED DYED MULCH' TO BE ACCEPTED. KEEP MULCH 6" AWAY FROM TREE OR PALM TRUNKS AS PER INDUSTRY RECOMMENDATIONS.

10. SOD SHALL BE 'EMPIRE TURF' ZOYSIA GRASS IN ALL LAWN AREAS AS SHOWN ON THE PLANS. SOD SHALL BE STRONGLY ROOTED, FREE FROM WEED, FUNGUS, INSECTS AND DISEASE. CONTRACTOR SHALL SOD ALL AREAS AS INDICATED ON THE PLANS OR AS DIRECTED. PAYMENT SHALL BE DETERMINED BY THE TOTAL MEASURED SODDED AREAS X THE UNIT PRICE SUBMITTED AND FIELD VERIFIED. SOD SHALL CARRY A 5-MONTH WARRANTY.

11. ALL TREES, PALMS, SHRUBS AND GROUND COVERS, AND SOD / LAWN SHALL CARRY A ONE-YEAR WARRANTY FROM THE DATE OF FINAL ACCEPTANCE.

12. ALL TREES AND PALMS SHALL BE STAKED PER ACCEPTED STANDARDS BY THE FLORIDA NURSERYMEN & GROWERS LANDSCAPE ASSOCIATION (FNGLA) AND ANSI A-300 (PART 6)-2012 TREE, SHRUB, AND OTHER WOODY PLANT MANAGEMENT STANDARD PRACTICES (PLANTING AND TRANSPLANTING). CONTRACTOR SHALL ENSURE THAT THE PLANS, DETAILS, SPECIFICATIONS AND NOTES HAVE BEEN ADHERED TO AND THAT THE LANDSCAPE AND IRRIGATION INSTALLATION IS COMPLIANT TO ALL ITEMS AS DIRECTED ON THE PLANS PRIOR TO SCHEDULING OF THE FINAL INSPECTION.  
  
CONTRACTOR SHALL REMOVE ALL STAKES, POLES, WELLINGTON TAPE AND OR BRACING MATERIALS FROM ALL PALMS, TREES AND SHRUBS WITHIN 1 YEAR OF INSTALLATION.

13. THE PLANT LIST IS INTENDED ONLY AS AN AID TO BIDDING. ANY DISCREPANCIES FOUND BETWEEN THE QUANTITIES ON THE PLAN AND PLANT LIST, THE QUANTITIES ON THE PLAN SHALL BE HELD VALID.

14. IF NECESSARY, CONTRACTOR SHALL PROVIDE A WATER TRUCK DURING PLANTING TO ENSURE PROPER WATERING-IN DURING INSTALLATION AND CONTRACTOR WILL BE RESPONSIBLE FOR CONTINUAL WATERING UNTIL FINAL ACCEPTANCE BY THE OWNER.  
  
A MINIMUM OF 6 MONTHS OF SUPPLEMENTAL HAND OR AUTOMATIC IRRIGATION SYSTEM WATERING SHALL BE REQUIRED TO AID IN NEW TREE OR PALM ESTABLISHMENT.

15. FERTILIZATION: ONE COMPLETE APPLICATION OF GRANULAR FERTILIZER SHALL BE APPLIED PRIOR TO FINAL ACCEPTANCE AND APPROVAL BY THE LANDSCAPE ARCHITECT. FERTILIZER SHALL BE OSMOCOTE OR APPROVAL EQUAL.

16. SHOULD ANY TREES OR PALMS BE DAMAGED THEY SHALL BE EVALUATED BY THE CITY URBAN FORESTER TO DETERMINE CORRECTIVE ACTIONS THAT MAY INCLUDE REMOVAL, CORRECTIVE PRUNING AND OR REPLACEMENT. ANY CORRECTIVE ACTION REQUIRED SHALL BE PERFORMED IN ACCORDANCE WITH A MIAMI DADE COUNTY CODE, ANSI-A 300 PRUNING STANDARDS AND OR AN ISSUED ERM TREE PERMIT OR ENVIRONMENTAL PERMIT. ANY CORRECTIVE PRUNING REQUIRED SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST OR ASCA CONSULTING ARBORIST AND THE CITY URBAN FORESTER SHALL BE CONSULTED.

17. ALL TREES + PALMS TO REMAIN OR BE RELOCATED ON SITE IN THE VICINITY OF CONSTRUCTION ACTIVITIES, SHALL BE PROTECTED THROUGH THE USE OF TREE PROTECTION BARRICADES INSTALLED AT THE TREE OR PALM DRIP LINE. A TREE PROTECTION FENCE SHALL BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION ACTIVITY INCLUDING GRUBBING AND SHALL REMAIN IN PLACE UNTIL ON SITE CONSTRUCTION HAS BEEN COMPLETED.

18. CITY OF URBAN FORESTER AND OR PLANNING DEPARTMENT STAFF TO APPROVE ROW TREES BEFORE THEY ARE PLANTED.

19. MULCH SHALL NOT BE APPLIED WITHIN 6" OF ANY TREE OR PALM TRUNK THAT IS INSTALLED OR INCORPORATED INTO THE PROJECT. FOR ROW TREES + PALMS, ALL MULCH SHALL BE AMERIGROW 'PREMIUM PINEBARK BROWN' SHREDDED MULCH OR A CITY APPROVED ALTERNATIVE.

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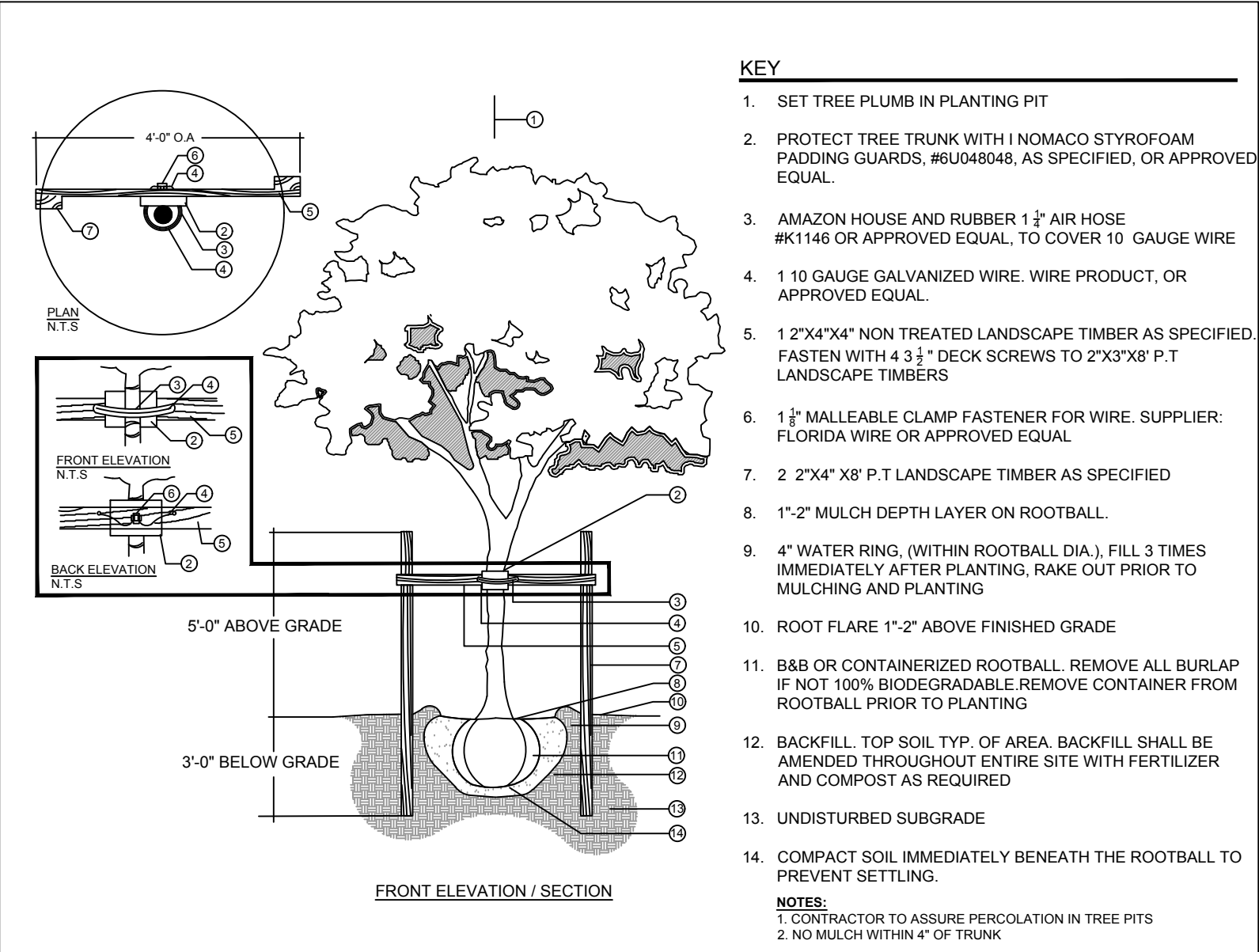
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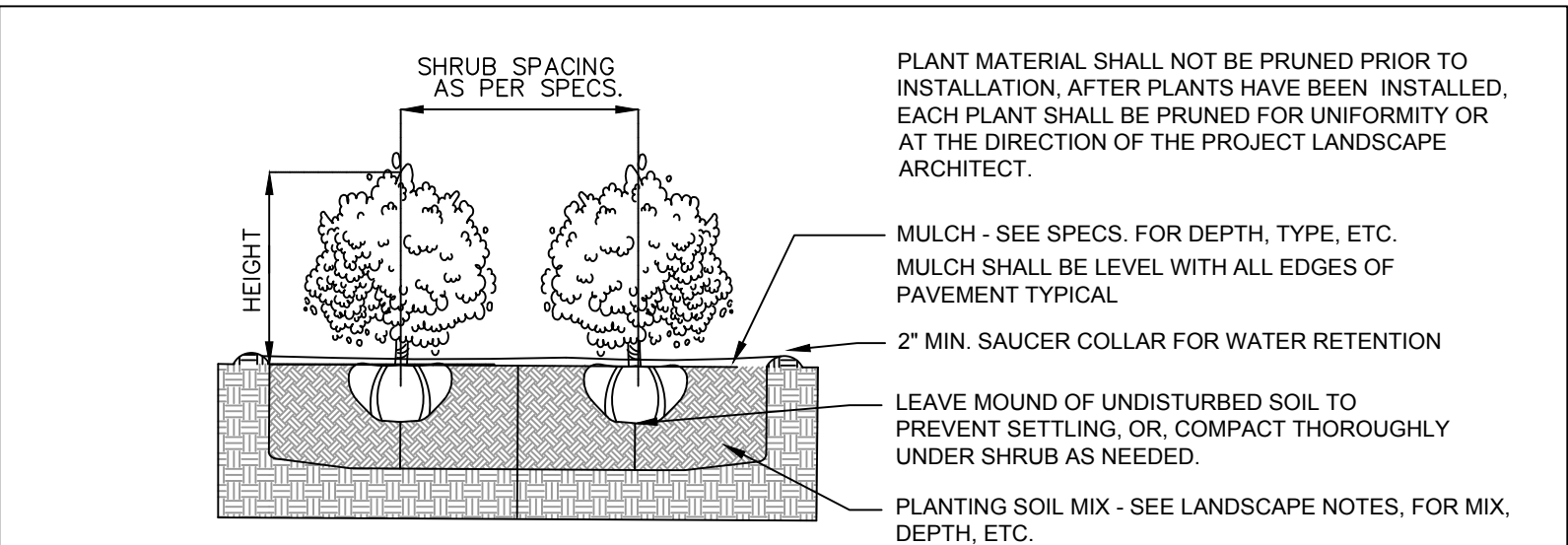
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C.M.B. MEDIUM TREE PLANTING DETAIL

N.T.S.



SHRUB PLANTING DETAIL

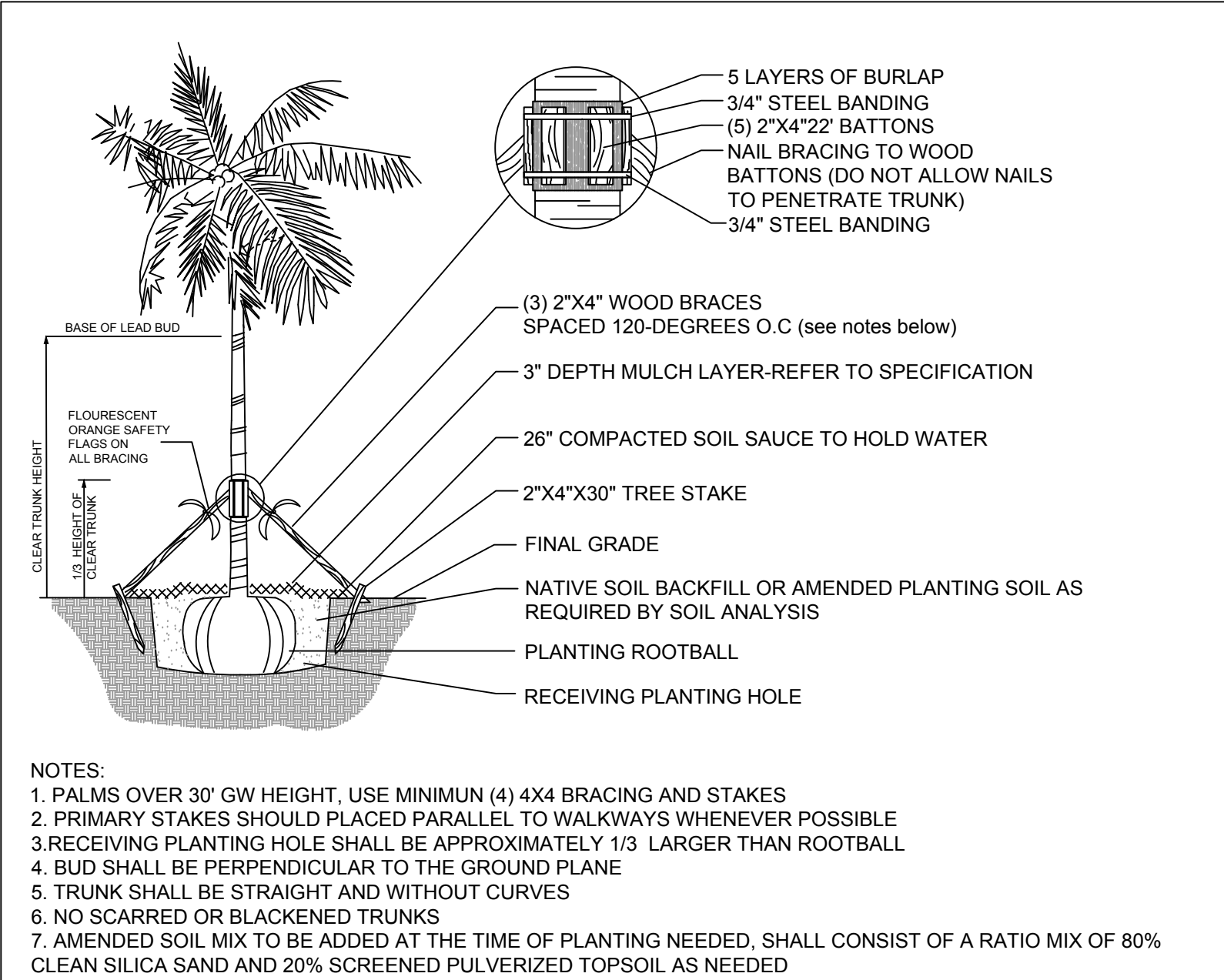
N.T.S.

C.M.B. PUBLIC WORKS / GREENSPACE MANAGEMENT CONDITIONS

- SHOULD ANY EXISTING TREES OR PALMS BE DAMAGED THEY SHALL BE EVALUATED BY THE CITY URBAN FORESTER TO DETERMINE CORRECTIVE ACTIONS THAT MAY INCLUDE REMOVAL, CORRECTIVE PRUNING AND OR REPLACEMENT. ANY CORRECTIVE ACTIONS REQUIRED SHALL BE PERFORMED IN ACCORDANCE WITH MIAMI BEACH CODE, THE MOST CURRENT ANSI A-300 PRUNING STANDARDS AND OR AN ISSUED CITY OF MIAMI BEACH TREE WORK PERMIT. ANY CORRECTIVE PRUNING REQUIRED SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST AND THE CITY URBAN FORESTER SHALL BE CONSULTED.
- CARE SHALL BE TAKEN TO AVOID UTILITY OR CONSTRUCTION TRENCHING THROUGH EXISTING TREE OR PALM DRIP LINES OF TREES SLATED TO REMAIN IN PLACE OR BE RELOCATED. IF CONSTRUCTION REQUIRES THE CUTTING OF ANY ROOTS WITH A DIAMETER OF 2" OR GREATER, ROOTS SHALL BE CLEANLY CUT WITH A SHARP TOOL, AS DIRECTED BY AN ISA CERTIFIED ARBORIST, AND IN ACCORDANCE WITH THE ANSI A-300 STANDARDS. CUT ROOTS SHOULD BE IMMEDIATELY COVERED WITH SOIL TO PREVENT DRYING. ROOTS SHOULD NOT BE TORN OR BROKEN BY HEAVY EQUIPMENT, AND NO SHREDDED, RAGGED OR BROKEN ROOT ENDS SHOULD BE LEFT. THE CITY URBAN FORESTER SHALL BE NOTIFIED IN WRITING AND OR CONSULTED PRIOR TO ANY ROOT PRUNING TAKING PLACE.
- SHOULD ANY CORRECTIVE STRUCTURAL PRUNING BE NECESSARY FOR TREES PROPOSED TO REMAIN ONSITE, DUE TO CLEARANCE, SAFETY OR FOR CONSTRUCTION RELATED REASONS THE PRUNING SHALL BE PERFORMED BY AN ISA OR ASCA CERTIFIED ARBORIST IN ACCORDANCE WITH THE LATEST VERSION OF THE ANSI A-300 PRUNING STANDARDS AND GOOD HORTICULTURAL PRACTICES. THE CITY URBAN FORESTER SHALL BE PROVIDED WITH A WRITTEN COPY OF THE PROPOSED PRUNING PLAN INCLUDING THE REASONS WHY PRUNING IS NECESSARY, PRIOR TO THE PRUNING ACTIVITIES TAKING PLACE.
- ANY ROOT PRUNING, IF REQUIRED DURING THE PROJECT, SHALL BE CONDUCTED UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST OR ASCA CONSULTING ARBORIST. ANY ROOT PRUNING, IF REQUIRED, WILL BE LIMITED TO WHAT IS ABSOLUTELY NECESSARY FOR CONSTRUCTION. ADDITIONALLY, ANY ROOT PRUNING WORK WILL BE DOCUMENTED WITH COLOR PICTURES AND PROVIDED TO MR. MARK WILLIAMS AT C.M.B. PUBLIC WORKS / GREENSPACE MANAGEMENT + MR. RICARDO GUZMAN AT C.M.B. PLANNING + ZONING DEPARTMENTS ON A REGULAR BASIS.

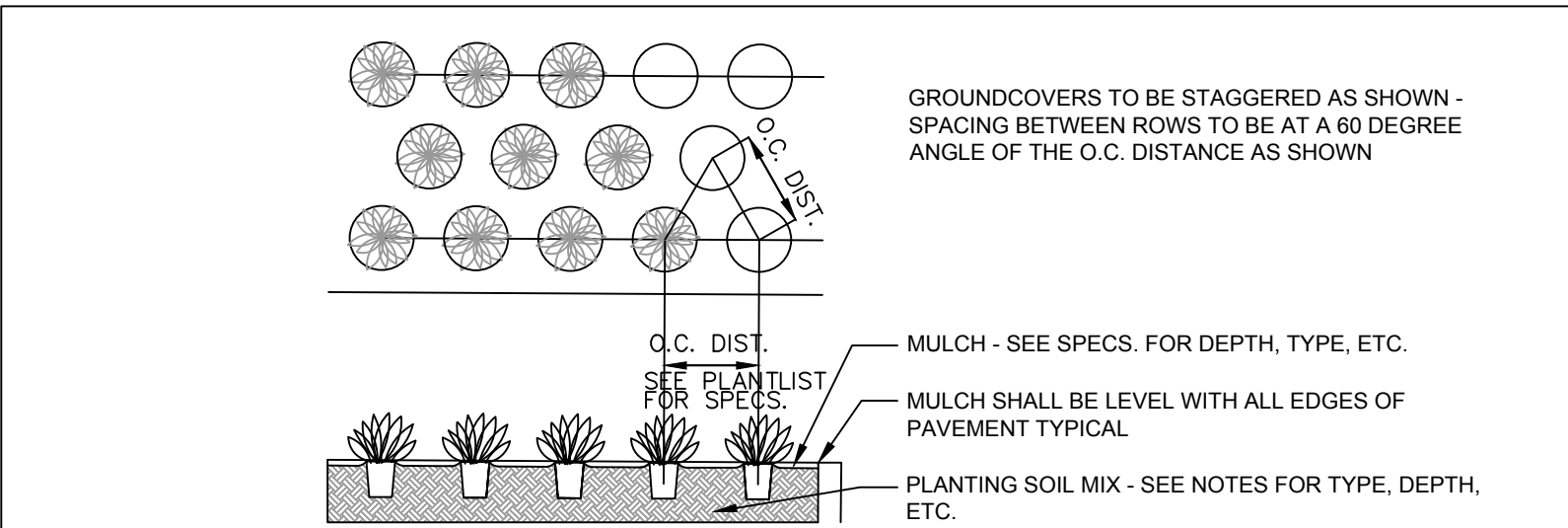
LANDSCAPE PLAN NOTES

- CONTRACTOR SHALL REMOVE ALL STAKES, POLES, WELLINGTON TAPE AND / OR BRACING MATERIALS FROM ALL PALMS, TREES, AND SHRUBS, WITHIN (1) YEAR OF INSTALLATION. THIS NOTE IS APPLICABLE TO ALL PLANTING DETAILS ON THIS SHEET.
- EXISTING SITE CONDITIONS HAVE BEEN FIELD VERIFIED BY LANDSCAPE ARCHITECT.
- ALL LANDSCAPE AREAS TO BE 100% COVERED BY A FULLY AUTOMATIC IRRIGATION SYSTEM WITH RAIN SENSOR. CONTRACTOR TO PROVIDE SHOP DRAWING OF MODIFIED IRRIGATION SYSTEM TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.
- SHEETS L-1 thru L-4 TO BE UTILIZED FOR LANDSCAPE AND IRRIGATION PURPOSES ONLY. ALL SITE IMPROVEMENTS INCLUDING GRADING AND DRAINAGE TO BE BY OTHERS. REFER TO ARCHITECTURE AND ENGINEERING PLANS FOR ALL ADDITIONAL INFORMATION.



C.M.B. PALM PLANTING DETAIL

N.T.S.



GROUNDCOVER PLANTING DETAIL

N.T.S.

LANDSCAPE LEGEND

MIAMI - DADE COUNTY LANDSCAPE ORDINANCE CHAPTER 18-A (RESIDENTIAL VERSION)

**TREES**  
3 TREES REQUIRED PER LOT / 162 TREES PROVIDED MEETING MINIMUM REQUIREMENTS. (5) GUMBO LIMBO, (3) PIGEON PLUM, (2) SILVER BUTTWOOD, (1) ROYAL POINCIANA, (142) SPANISH STOPPER, (1) SIMPSON STOPPER, (8) BALD CYPRESS TREES

**NATIVE TREES**  
30% OF REQUIRED TREES OR .30 X 6 = 2 NATIVE TREES REQUIRED / 158 NATIVE TREES PROVIDED. (5) GUMBO LIMBO, (3) PIGEON PLUM, (2) SILVER BUTTWOOD, (1) ROYAL POINCIANA, (142) SPANISH STOPPER, (1) SIMPSON STOPPER, (8) BALD CYPRESS TREES

**SHRUBS**  
10 SHRUBS REQUIRED FOR EACH REQUIRED TREE or 10 X (3) = 30 REQUIRED / 54 SHRUBS PROVIDED

**NATIVE SHRUBS**  
30% OF TOTAL SHRUBS REQUIRED MUST BE NATIVE or .30 X 30 = 9 / 54 NATIVE SHRUBS PROVIDED  
54 DWARF BAHAMA SHRUBS PROVIDED

**LAWN AREA**  
50% MAXIMUM OF LANDSCAPE AREA: NEW LAWN AREAS ARE LESS THAN 50% OF LANDSCAPE AREA

**IRRIGATION SYSTEM**  
100% COVERAGE PROVIDED PURSUANT TO MIAMI DADE CODE

C.M.B. CANOPY MITIGATION NOTES

THE CANOPY MITIGATION OF 9,463 SF AS REQUIRED BY THE CITY OF MIAMI BEACH, CHAPTER 46 - ENVIRONMENT, DIVISION 2, TREE PRESERVATION and PROTECTION ORDINANCE HAS BEEN MET AND EXCEEDED. A TOTAL 20,200 SF OF CANOPY HAS BEEN PROVIDED.

CANOPY MITIGATION SUMMARY

MB CATEGORY I @ 300 SF EA:  
- (5) NATIVE GUMBO LIMBO TREES: 1500 SF  
- (1) NATIVE ROYAL POINCIANA TREE: 300 SF  
- (8) NATIVE BALD CYPRESS TREES: 2400 SF

MB CATEGORY III @ 100 SF EA:  
- (142) NATIVE SPANISH STOPPER TREES: 14,200 SF  
- (1) NATIVE SIMPSON STOPPER TREE: 100 SF

MB CATEGORY II @ 150 SF EA:  
- (3) NATIVE PIGEON PLUM TREES: 450 SF  
- (2) NATIVE SILVER BUTTWOOD TREES: 300 SF

MB CATEGORY III @ 50 SF EA:  
- (10) COCONUT PALMS: 500 SF  
- (2) CABADA PALMS: 100 SF  
- (7) MONTGOMERY PALMS: 350 SF

LANDSCAPE NOTES + DETAILS

MIAMI BEACH DESIGN REVIEW BOARD SUBMITTAL

NEW RESIDENCE  
790 LAKE VIEW DRIVE, MIAMI BEACH, FLORIDA

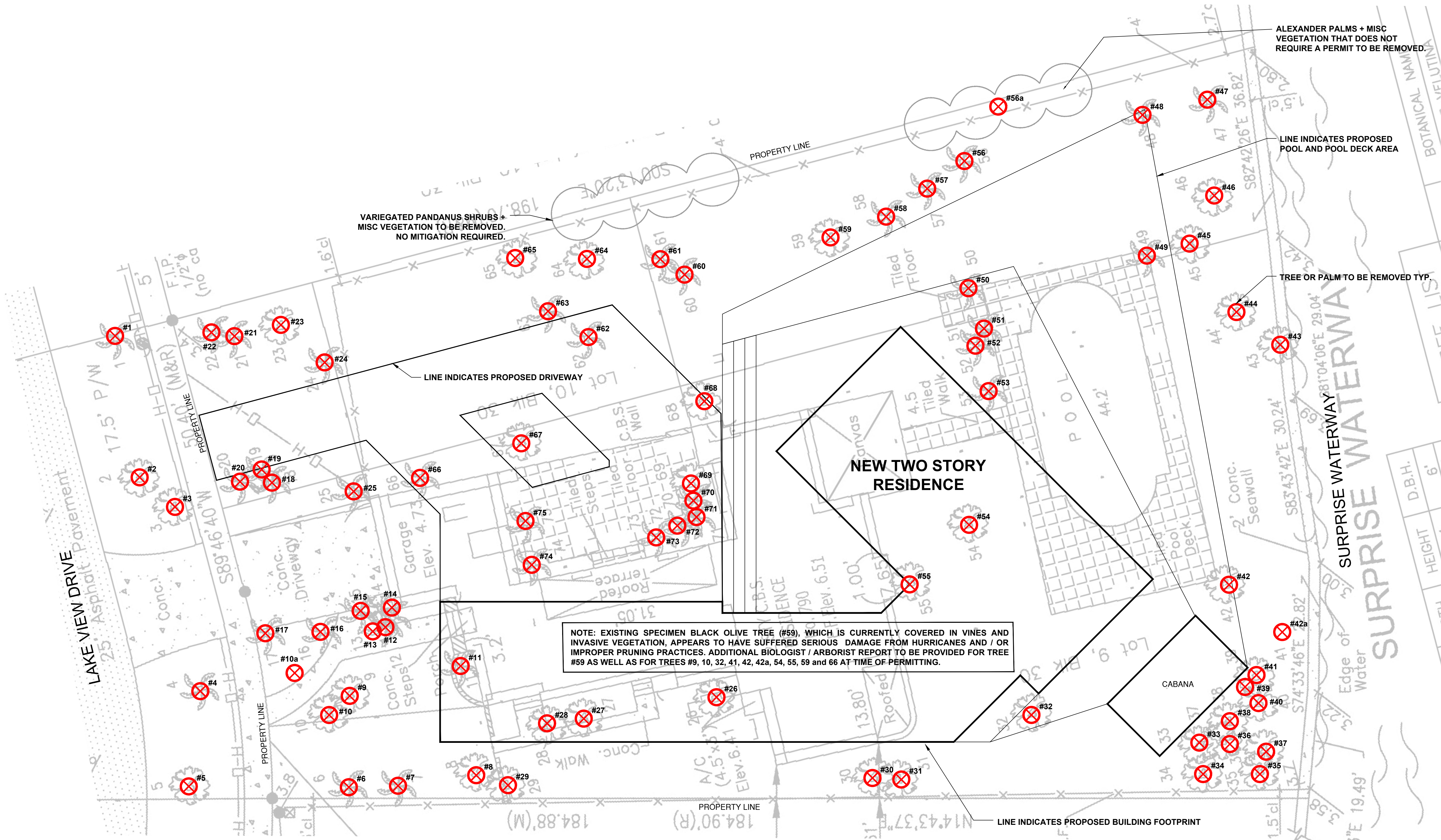
CHRISTOPHER CAWLEY | CC  
LANDSCAPE ARCHITECTURE LLC  
Florida Landscape Architecture Business LC 26000460  
780 NE 69th Street | Suite 1106 | Miami, FL 33138  
T 305.979.1585 | www.christophercawley.com

DATE  
08.25.2016 | Submittal 1  
09.06.2016 | Submittal 2

SHEET NO.

L-1a





C.M.B. EXISTING TREE SURVEY LEGEND



TREE or PALM TO BE REMOVED.

C.M.B. TREE INVENTORY + DISPOSITION PLAN NOTES

1. THIS 'EXISTING TREE INVENTORY + DISPOSITION PLAN' HAS BEEN PREPARED IN ACCORDANCE WITH THE CITY OF MIAMI BEACH, CHAPTER 46 - ENVIRONMENT, DIVISION 2, TREE PRESERVATION and PROTECTION ORDINANCE.
2. EXISTING TREE, PALM, AND VEGETATION INFORMATION AS INDICATED HAS BEEN PREPARED AS AN OVERLAY ON THE SURVEY PREPARED BY AMERICAN SERVICES OF MIAMI CORP. DATED JULY 19, 2016.
3. THE INFORMATION AS PRESENTED HEREIN HAS BEEN FIELD VERIFIED BY THE LANDSCAPE ARCHITECT ON AUGUST 23, 2016
4. MIAMI BEACH P+Z MUST APPROVE LANDSCAPE PLANS PRIOR TO REMOVING ANY TREES OR PALMS WITH A DBH BETWEEN 8" AND 12" INCHES. A WRITTEN TREE REMOVAL PERMIT IS REQUIRED FROM CITY OF MIAMI BEACH GREENSPACE MANAGEMENT / P+W FOR THE REMOVAL OF TREES / PALMS WITH A DBH GREATER THAN 12" INCHES OR IN THE R.O.W.
5. THE OWNER RESERVES THE RIGHT TO REMOVE ANY VEGETATION NOT LOCATED WITHIN THE CITY R.O.W. w/ a D.B.H. OF LESS THAN 8" WITHOUT OBTAINING A TREE REMOVAL PERMIT.

EXISTING TREE SURVEY





C.M.B. EXISTING TREE INVENTORY + DISPOSITION CHART - 790 LAKE VIEW RD											
NUMBER	COMMON NAME	BOTANICAL NAME	SPECIMEN	D.B.H. (IN)	HEIGHT (FT)	SPREAD (FT)	CONDITION	DISPOSITION	CANOPY AREA	CANOPY LOSS / MIT. REQ. (SF)	COMMENTS
* #1	Alexander Palm	Ptychosperma elegans	NO	+/- 3"	+/- 18'	+/- 6'	POOR	REMOVE	28 SF	28 SF	MITIGATION PROVIDED
* #2	Umbrella Tree	Schefflera actinophylla	NO	+/- 9"	+/- 25'	+/- 12'	POOR	REMOVE	113 SF	113 SF	MITIGATION PROVIDED
* #3	Brazilian Pepper Tree	Schinus terebinthifolia	NO	+/- 7"	+/- 12'	+/- 8'	POOR	REMOVE	138 SF	0 SF	CATEGORY I INVASIVE SPECIES, NO MITIGATION REQUIRED
* #4	Coccothrinax species	Coccothrinax species	NO	+/- 3"	+/- 12'	+/- 5'	POOR	REMOVE	20 SF	20 SF	MITIGATION PROVIDED
* #5	Weeping Fig	Ficus benjamina	YES	+/- 18"	+/- 18'	+/- 20'	POOR	REMOVE	314 SF	314 SF	MITIGATION PROVIDED
** #6	Chinese Fan Palm	Livistona chinensis	YES	+/- 12"	+/- 20'	+/- 15'	POOR	REMOVE	177 SF	177 SF	MITIGATION PROVIDED
* #7	Areca Palm	Dypsis lutescens	NO	+/- 3"	+/- 15'	+/- 6'	POOR	REMOVE	28 SF	28 SF	MITIGATION PROVIDED
* #8	Screw Pine	Pandanus amaryllifolius	NO	+/- 8"	+/- 15'	+/- 8'	POOR	REMOVE	138 SF	138 SF	MITIGATION PROVIDED
** #9	Trumpet Tree	Tabebuia chrysostricha	NO	+/- 8"	+/- 12'	+/- 8'	POOR	REMOVE	138 SF	138 SF	MITIGATION PROVIDED
*** #10	Trumpet Tree	Tabebuia chrysostricha	YES	+/- 12"	+/- 16'	+/- 8'	POOR	REMOVE	138 SF	138 SF	MITIGATION PROVIDED
*** #10a	Ponytail Palm	Beaucarnea recurvata	NO	+/- 3"	+/- 8'	+/- 5'	POOR	REMOVE	20 SF	20 SF	MITIGATION PROVIDED
#11	Alexander Palm	Ptychosperma elegans	NO	+/- 3"	+/- 12'	+/- 5'	POOR	REMOVE	20 SF	20 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#12	Coccothrinax species	Coccothrinax species	NO	+/- 3"	+/- 12'	+/- 5'	POOR	REMOVE	20 SF	20 SF	MITIGATION PROVIDED
#13	Coccothrinax species	Coccothrinax species	NO	+/- 3"	+/- 12'	+/- 5'	POOR	REMOVE	20 SF	20 SF	MITIGATION PROVIDED
#14	Coccothrinax species	Coccothrinax species	NO	+/- 3"	+/- 12'	+/- 5'	POOR	REMOVE	20 SF	20 SF	MITIGATION PROVIDED
#15	Coccothrinax species	Coccothrinax species	NO	+/- 3"	+/- 12'	+/- 5'	POOR	REMOVE	20 SF	20 SF	MITIGATION PROVIDED
#16	Thatch Palm	Coccothrinax Inaguensis	NO	+/- 3"	+/- 12'	+/- 6'	POOR	REMOVE	28 SF	28 SF	MITIGATION PROVIDED
#17	Thatch Palm	Coccothrinax Inaguensis	NO	+/- 3"	+/- 12'	+/- 6'	POOR	REMOVE	28 SF	28 SF	MITIGATION PROVIDED
#18	Christmas Palm	Adonidia merrillii	NO	+/- 6"	+/- 18'	+/- 8'	POOR	REMOVE	138 SF	0 SF	CATEGORY I INVASIVE SPECIES, NO MITIGATION REQUIRED
#19	Christmas Palm	Adonidia merrillii	NO	+/- 6"	+/- 12'	+/- 6'	POOR	REMOVE	28 SF	0 SF	CATEGORY I INVASIVE SPECIES, NO MITIGATION REQUIRED
#20	Christmas Palm	Adonidia merrillii	NO	+/- 3"	+/- 8'	+/- 6'	POOR	REMOVE	28 SF	0 SF	CATEGORY I INVASIVE SPECIES, NO MITIGATION REQUIRED
#21	Screw Pine	Pandanus amaryllifolius	NO	+/- 3"	+/- 25'	+/- 6'	POOR	REMOVE	28 SF	28 SF	MITIGATION PROVIDED
#22	Alexander Palm	Ptychosperma elegans	NO	+/- 3"	+/- 25'	+/- 6'	POOR	REMOVE	28 SF	28 SF	MITIGATION PROVIDED
#23	Dracaena	Dracaena marginata	NO	+/- 9"	+/- 30'	+/- 12'	POOR	REMOVE	0 SF	0 SF	NOT A TREE
#24	Christmas Palm	Adonidia merrillii	NO	+/- 3"	+/- 12'	+/- 5'	POOR	REMOVE	20 SF	20 SF	MITIGATION PROVIDED
#25	Pygmy Date Palm	Phoenix roebellini	NO	+/- 4"	+/- 8'	+/- 3'	POOR	REMOVE	7 SF	7 SF	MITIGATION PROVIDED
#26	Invasive Unknown Weed Tree	Same	NO	+/- 12"	+/- 30'	+/- 25'	POOR	REMOVE	0 SF	0 SF	NOT A TREE
* #27	Black Sapote	Diospyros ebenaster	NO	+/- 9"	+/- 30'	+/- 25'	POOR	REMOVE	491 SF	491 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
* #28	Umbrella Tree	Schefflera actinophylla	NO	+/- 18"	+/- 25'	+/- 18'	POOR	REMOVE	254 SF	254 SF	MITIGATION PROVIDED
* #29	Umbrella Tree	Schefflera actinophylla	NO	+/- 8"	+/- 20'	+/- 20'	POOR	REMOVE	314 SF	314 SF	MITIGATION PROVIDED
* #30	Umbrella Tree	Schefflera actinophylla	NO	+/- 12"	+/- 25'	+/- 18'	POOR	REMOVE	254 SF	254 SF	MITIGATION PROVIDED
* #31	Umbrella Tree	Schefflera actinophylla	NO	+/- 30"	+/- 35'	+/- 20'	POOR	REMOVE	314 SF	314 SF	MITIGATION PROVIDED
+ * #32	Weeping Bottle Brush	Melaleuca viminalis	NO	+/- 14"	+/- 20'	+/- 20'	POOR	REMOVE	314 SF	314 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#33	Northfolk Island Pine	Araucaria heterophylla	NO	+/- 9"	+/- 40'	+/- 12'	POOR	REMOVE	113 SF	0 SF	NO PERMIT REQUIRED AS PER EXEMPTION LIST SECTION 49-9
#34	Northfolk Island Pine	Araucaria heterophylla	NO	+/- 18"	+/- 60'	+/- 15'	POOR	REMOVE	177 SF	0 SF	NO PERMIT REQUIRED AS PER EXEMPTION LIST SECTION 49-9
#35	Northfolk Island Pine	Araucaria heterophylla	NO	+/- 8"	+/- 35'	+/- 12'	POOR	REMOVE	113 SF	0 SF	NO PERMIT REQUIRED AS PER EXEMPTION LIST SECTION 49-9
#36	Northfolk Island Pine	Araucaria heterophylla	NO	+/- 8"	+/- 35'	+/- 12'	POOR	REMOVE	113 SF	0 SF	NO PERMIT REQUIRED AS PER EXEMPTION LIST SECTION 49-9
#37	Northfolk Island Pine	Araucaria heterophylla	NO	+/- 8"	+/- 35'	+/- 12'	POOR	REMOVE	113 SF	0 SF	NO PERMIT REQUIRED AS PER EXEMPTION LIST SECTION 49-9
#38	Northfolk Island Pine	Araucaria heterophylla	NO	+/- 8"	+/- 35'	+/- 12'	POOR	REMOVE	113 SF	0 SF	NO PERMIT REQUIRED AS PER EXEMPTION LIST SECTION 49-9
#39	Northfolk Island Pine	Araucaria heterophylla	NO	+/- 8"	+/- 35'	+/- 12'	POOR	REMOVE	113 SF	0 SF	NO PERMIT REQUIRED AS PER EXEMPTION LIST SECTION 49-9

C.M.B. CHAPTER 46, DIVISION 2 - TREE INVENTORY + DISPOSITION PLAN NOTES
1. THIS 'EXISTING TREE INVENTORY + DISPOSITION PLAN' HAS BEEN PREPARED IN ACCORDANCE WITH THE CITY OF MIAMI BEACH, CHAPTER 46 - ENVIRONMENT, DIVISION 2, TREE PRESERVATION and PROTECTION ORDINANCE.
2. EXISTING TREE, PALM, AND VEGETATION INFORMATION AS INDICATED HAS BEEN PREPARED AS AN OVERLAY ON THE SURVEY PREPARED BY AMERICAN SERVICES OF MIAMI CORP. DATED JULY 19, 2016.
3. THE INFORMATION AS PRESENTED HEREIN HAS BEEN FIELD VERIFIED BY THE LANDSCAPE ARCHITECT ON AUGUST 23, 2016
4. MIAMI BEACH P+Z MUST APPROVE LANDSCAPE PLANS PRIOR TO REMOVING ANY TREES OR PALMS WITH A DBH BETWEEN 8" AND 12" INCHES. A WRITTEN TREE REMOVAL PERMIT IS REQUIRED FROM CITY OF MIAMI BEACH GREENSPACE MANAGEMENT / P.W FOR THE REMOVAL OF TREES / PALMS WITH A DBH GREATER THAN 12" INCHES OR IN THE R.O.W.
5. THE OWNER RESERVES THE RIGHT TO REMOVE ANY VEGETATION NOT LOCATED WITHIN THE CITY R.O.W. w/ a D.B.H. OF LESS THAN 8" WITHOUT OBTAINING A TREE REMOVAL PERMIT.

NUMBER	COMMON NAME	BOTANICAL NAME	SPECIMEN	D.B.H. (IN)	HEIGHT (FT)	SPREAD (FT)	CONDITION	DISPOSITION	CANOPY AREA	CANOPY LOSS / MIT. REQ. (SF)	COMMENTS
*** #40	Northfolk Island Pine	Araucaria heterophylla	NO	+/- 14"	+/- 60'	+/- 12'	POOR	REMOVE	113 SF	0 SF	NO PERMIT REQUIRED AS PER EXEMPTION LIST SECTION 49-9
+ * #41	Black Olive	Bucida buceras	NO	+/- 9"	+/- 25'	+/- 15'	POOR	REMOVE	177 SF	177 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
+ ** #42	Black Olive	Bucida buceras	YES	+/- 30"	+/- 60'	+/- 40'	POOR	REMOVE	1256 SF	1256 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
+ ** #42a	Black Olive	Bucida buceras	NO	+/- 9"	+/- 15'	+/- 15'	POOR	REMOVE	177 SF	177 SF	MITIGATION PROVIDED
* #43	Umbrella Tree	Schefflera actinophylla	NO	+/- 24"	+/- 25'	+/- 20'	POOR	REMOVE	314 SF	314 SF	MITIGATION PROVIDED
#44	Umbrella Tree	Schefflera actinophylla	NO	+/- 3"	+/- 25'	+/- 12'	POOR	REMOVE	113 SF	113 SF	MITIGATION PROVIDED
** #45	Pine Cactus	Dracaena marginata	NO	+/- 18"	+/- 12'	+/- 25'	POOR	REMOVE	491 SF	491 SF	MITIGATION PROVIDED
#46	Black Olive	Bucida buceras	NO	+/- 3"	+/- 6'	+/- 6'	POOR	REMOVE	28 SF	28 SF	MITIGATION PROVIDED
** #47	Coconut Palm	Cocos nucifera	YES	+/- 14"	+/- 30'	+/- 25'	POOR	REMOVE	491 SF	491 SF	MITIGATION PROVIDED
#48	Coconut Palm	Cocos nucifera	NO	+/- 7"	+/- 25'	+/- 8'	POOR	REMOVE	138 SF	138 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#49	Montgomery Palm	Veitchia montgomeryana	NO	+/- 7"	+/- 25'	+/- 8'	POOR	REMOVE	138 SF	138 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#50	Montgomery Palm	Veitchia montgomeryana	NO	+/- 6"	+/- 25'	+/- 6'	POOR	REMOVE	28 SF	28 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#51	Montgomery Palm	Veitchia montgomeryana	NO	+/- 6"	+/- 25'	+/- 6'	POOR	REMOVE	28 SF	28 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#52	Montgomery Palm	Veitchia montgomeryana	NO	+/- 6"	+/- 25'	+/- 6'	POOR	REMOVE	28 SF	28 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
* #53	Coconut Palm	Cocos nucifera	NO	+/- 9"	+/- 10'	+/- 12'	POOR	REMOVE	113 SF	113 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
+ ** #54	Weeping Bottle Brush	Melaleuca viminalis	YES	+/- 14"	+/- 10'	+/- 15'	POOR	REMOVE	177 SF	177 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
+ ** #55	Weeping Bottle Brush	Melaleuca viminalis	YES	+/- 14"	+/- 10'	+/- 15'	POOR	REMOVE	177 SF	177 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
* #56	Montgomery Palm	Veitchia montgomeryana	NO	+/- 3"	+/- 30'	+/- 6'	POOR	REMOVE	28 SF	28 SF	MITIGATION PROVIDED
#56a	Alexander Palms	Ptychosperma elegans	NO	+/- 3"	+/- 20'	+/- 15'	POOR	REMOVE	177 SF	177 SF	MITIGATION PROVIDED
#57	Montgomery Palm	Veitchia montgomeryana	NO	+/- 3"	+/- 30'	+/- 8'	POOR	REMOVE	138 SF	138 SF	MITIGATION PROVIDED
#58	Montgomery Palm	Veitchia montgomeryana	NO	+/- 3"	+/- 30'	+/- 8'	POOR	REMOVE	138 SF	138 SF	MITIGATION PROVIDED
* #59	Black Olive	Bucida buceras	YES	+/- 36"	+/- 60'	+/- 60'	POOR	REMOVE	2826 SF	2826 SF	MITIGATION PROVIDED
** #60	Coconut Palm	Cocos nucifera	NO	+/- 8"	+/- 25'	+/- 20'	POOR	REMOVE	314 SF	314 SF	MITIGATION PROVIDED
* #61	Coconut Palm	Cocos nucifera	NO	+/- 8"	+/- 25'	+/- 20'	POOR	REMOVE	314 SF	314 SF	MITIGATION PROVIDED
* #62	Coconut Palm	Cocos nucifera	NO	+/- 8"	+/- 25'	+/- 20'	POOR	REMOVE	314 SF	314 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#63	Coconut Palm	Cocos nucifera	NO	+/- 7"	+/- 12'	+/- 6'	POOR	REMOVE	28 SF	28 SF	MITIGATION PROVIDED
#64	Screw Pine	Pandanus amaryllifolius	NO	+/- 7"	+/- 18'	+/- 12'	POOR	REMOVE	0 SF	0 SF	NOT A TREE
#65	Screw Pine	Pandanus amaryllifolius	NO	+/- 7"	+/- 18'	+/- 12'	POOR	REMOVE	0 SF	0 SF	NOT A TREE
+ * #66	Loquat	Eriobotrya japonica	NO	+/- 8"	+/- 30'	+/- 15'	POOR	REMOVE	177 SF	177 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
** #67	Southern Wax Privet	Ligustrum japonicum	YES	+/- 12"	+/- 15'	+/- 8'	POOR	REMOVE	138 SF	138 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#68	Umbrella Tree	Schefflera actinophylla	NO	+/- 7"	+/- 15'	+/- 8'	POOR	REMOVE	138 SF	138 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#69	Dracaena	Dracaena marginata	NO	+/- 18"	+/- 30'	+/- 18'	POOR	REMOVE	0 SF	0 SF	NOT A TREE
#70	Montgomery Palm	Veitchia montgomeryana	NO	+/- 4"	+/- 25'	+/- 5'	POOR	REMOVE	20 SF	20 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#71	Montgomery Palm	Veitchia montgomeryana	NO	+/- 4"	+/- 25'	+/- 6'	POOR	REMOVE	28 SF	28 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#72	Montgomery Palm	Veitchia montgomeryana	NO	+/- 4"	+/- 25'	+/- 6'	POOR	REMOVE	28 SF	28 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#73	Macarthur Palm	Ptychosperma macarthur	NO	+/- 3"	+/- 8'	+/- 5'	POOR	REMOVE	20 SF	20 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
** #74	Macarthur Palm	Ptychosperma macarthur	YES	+/- 16"	+/- 25'	+/- 8'	POOR	REMOVE	138 SF	138 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
#75	Macarthur Palm	Ptychosperma macarthur	NO	+/- 3"	+/- 25'	+/- 8'	POOR	REMOVE	138 SF	138 SF	IN CONFLICT WITH PROPOSED SITE DESIGN, MITIGATION PROVIDED
TOTAL MITIGATION REQUIRED :										12,270 SF	
TOTAL MITIGATION PROVIDED :										20,200 SF	

\* REQUIRES APPROVAL FROM MIAMI BEACH PLANNING + ZONING

\*\* REQUIRES PERMIT FROM MIAMI BEACH PLANNING + ZONING

+ ARBORIST REPORT TO BE PROVIDED AT TIME OF PERMITTING

C.M.B. CANOPY MITIGATION NOTES	
THE CANOPY MITIGATION OF 9,463 SF AS REQUIRED BY THE CITY OF MIAMI BEACH, CHAPTER 46 - ENVIRONMENT, DIVISION 2, TREE PRESERVATION AND PROTECTION ORDINANCE HAS BEEN MET AND EXCEEDED . A TOTAL 20,200 SF OF CANOPY HAS BEEN PROVIDED.	
<u>CANOPY MITIGATION SUMMARY</u>	
MB CATEGORY I @ 300 SF EA: - (5) NATIVE GUMBO LIMBO TREES: 1500 SF - (1) NATIVE ROYAL POINCIANA TREE: 300 SF - (8) NATIVE BALD CYPRESS TREES: 2400 SF	MB CATEGORY III @ 100 SF EA: - (142) NATIVE SPANISH STOPPER TREES: 14,200 SF - (1) NATIVE SIMPSON STOPPER TREE: 100 SF
MB CATEGORY II @ 150 SF EA: - (3) NATIVE PIGEON PLUM TREES: 450 SF - (2) NATIVE SILVER BUTTWOOD TREES: 300 SF	MB CATEGORY IIII @ 50 SF EA: - (10) COCONUT PALMS: 500 SF - (2) CABADA PALMS: 100 SF - (7) MONTGOMERY PALMS: 350 SF



**Biscayne Environmental, Inc.**  
Environmental and Land Development Consultants ♦ Mitigation Design and Contracting

September 7, 2016

Christopher Cawley, RLA  
780 NE 69<sup>th</sup> Street  
Miami, FL 33138

Via email

RE: 790 Lakeview Drive, Miami Beach  
Evaluation of Existing Tree Resources  
BEI Project No. 2016-26

Dear Mr. Cawley,

Pursuant to your request and authorization, I conducted a field inspection of the subject property on September 6, 2016. The purpose of the inspection was to evaluate the existing tree resources to determine whether any of the existing trees are significant and warrant preservation or on-site relocation. The findings from the inspection follow.

The on-site inspection revealed that the existing trees on the property are predominately non-native ornamental trees that were planted as landscape material in the yard area of the house and adjoining public Right-of-Way. Trees observed in the Right-of-Way include *Ficus benjamina*, yellow elder, umbrella tree and thatch palm (see Photos 1 & 2). Trees noted in the front yard include yellow tabebuia, Christmas palm, Chinese fan palm, pygmy date palm, ponytail palm, bamboo palm and numerous thatch palms (see Photos 3 & 4). Trees in the west side yard include umbrella tree, pandanus, tamarind, an unidentified tropical fruit tree, and mahoe, while a stand of pandanus occurs in the east side yard along with coconut palms, Alexander palms, and a large black olive. The backyard includes a stand of Norfolk Island pines, seaside hibiscus (*Thespesia populnea*), pencil tree (a cactus), and a large black olive.

The majority of the trees are less than 8" DBH, and are exempt from having to obtain permits or approval for removal, although the two black olives exceed 12" DBH and are therefore considered specimen trees requiring a permit for removal. The large umbrella trees, seaside hibiscus, mahoe and Norfolk Island pines are prohibited species and are exempt from having to obtain permits.

Many of the trees on the property are in poor condition due to previous storm damage and lack of maintenance. In particular, both of the large black olives are in poor condition; the black olive in the back yard next to the seawall has a number of decaying canopy branches and also appears to have lightening damage, and the black olive in the side yard has 3 co-dominant main trunks at breast height and also has decaying canopy branches and was covered with pothos vine at the time of the inspection (see Photos 6-10). The stand of pandanus in the east side yard is in fairly good condition and has a well-

1761 Cleveland Road ♦ Miami Beach, Florida 33141 ♦ Telephone 305-710.2359 ♦ Email [biscayneinc@bellsouth.net](mailto:biscayneinc@bellsouth.net)

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developed adventitious root system which is aesthetically pleasing (see Photo 11). The thatch palms in the front yard and court yard are in good condition and could easily be transplanted or relocated on site (see Photo 3).

Based on the above findings, the only trees present on the property which are worth incorporating into the landscape plan for the proposed house are the thatch palms and pandanus cluster along the east property line. Since the pandanus cluster is growing along the east property line it should not be in conflict with new construction and could be preserved in place. Since it is likely that the thatch palms will be in conflict with new construction, it is recommended that they be relocated to the setback area of the west property line where they should not be in conflict with new construction. The remainder of the trees on site are either in poor condition or are exempt or prohibited trees and should be removed after a permit has been obtained from the City of Miami Beach.

Please contact me if you have any questions regarding the findings in this report.

Sincerely,  
BISCAYNE ENVIRONMENTAL, INC.


David Ettman, Senior Biologist  
President

DE/ cs


Attachment

cc: Todd Glaser  
Robert Moehring







**Photo 1** Ficus and thatch palm on west half of ROW and thatch palms in front yard.



**Photo 2** Umbrella tree and yellow elder on east half of ROW and pandanus along east property line in background to left.




**Photo 3** View west of thatch palms in front yard with yellow tabebuia canopy visible above thatch palms.




**Photo 4** View of Christmas palm cluster and pygmy date palm on east side of front yard.


<b>Biscayne Environmental, Inc.</b> 1761 Cleveland Road Miami Beach, FL 33141 Tel. 305.710.2359 Email: <a href="mailto:biscayneinc@bellsouth.net">biscayneinc@bellsouth.net</a>	Project:	790 Lakeview Drive		
	Sheet Name:	Site Photographs		
	Prepared For:	Todd Glaser		
	Address:	790 Lakeview Drive, Miami Beach		
	Project No.:	2016-26	Date:	9/8/2016
				<b>Sheet 1</b>




**Photo 5** Large black olive in backyard next to seawall.



**Photo 6** Close-up of decaying/damaged trunk on black olive in backyard.




**Photo 7** Close-up of trunk damage to black olive in backyard.




**Photo 8** Additional close-up of trunk damage to black olive in backyard.


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				<b>Sheet 2</b>	



**Photo 9** Black olive in east side yard covered with pothos vine.



**Photo 10** Close-up of pothos vine covering black olive in east side yard.



**Photo 11** Pandanus cluster growing along east property line. Note adventitious root mass.

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				<b>Sheet 3</b>	