

C.M.B. LANDSCAPE FINAL DRB SUBMITTAL - 08.02.21

450 W. 51ST STREET | MIAMI BEACH, FLORIDA

CLIENT / PROPERTY INFORMATION

PROPERTY ADDRESS 420 W. 51st STREET MIAMI BEACH, FL 33140

EXISTING VEGETATION SUMMARY

The existing vegetation located on the property is composed mostly of small palms, one coconut palm, a multi-trunk clusia rosea along the western seawall and a ficus along the eastern property line. The landscape architect is requesting to remove the existing vegetation on site. Please note that the landscape architect intends to provide an improved landscape design that shall mitigate for the palm and tree loss by introducing new native trees to the site and meet all landscape requirements set forth by C.M.B. Chapter 126.

SCOPE OF WORK

New landscape design to complement new Residence

INDEX OF SHEETS

- **L0.00** Landscape Cover + Sheet Index
- L1.00 Existing Tree Survey + Disposition Plan
 L1.01 Existing Tree Chart + Mitigation Summary
 L2.00 Ground Floor Landscape Plan
 L3.00 Plant List, Landscape Code + Details

CHRISTOPHER CAWLEY LANDSCAPE ARCHITECTURE

CHRISTOPHERCAWLEY.COM | LC 26000460

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420 W 51st St

MIAMI BEACH, FL 33140



CHRISTOPHER CAWLEY, RLA Florida License LA 6666786

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> Consultant: Name Address

Address Tel: Email

Consultant: Name Address Address Tel: Email

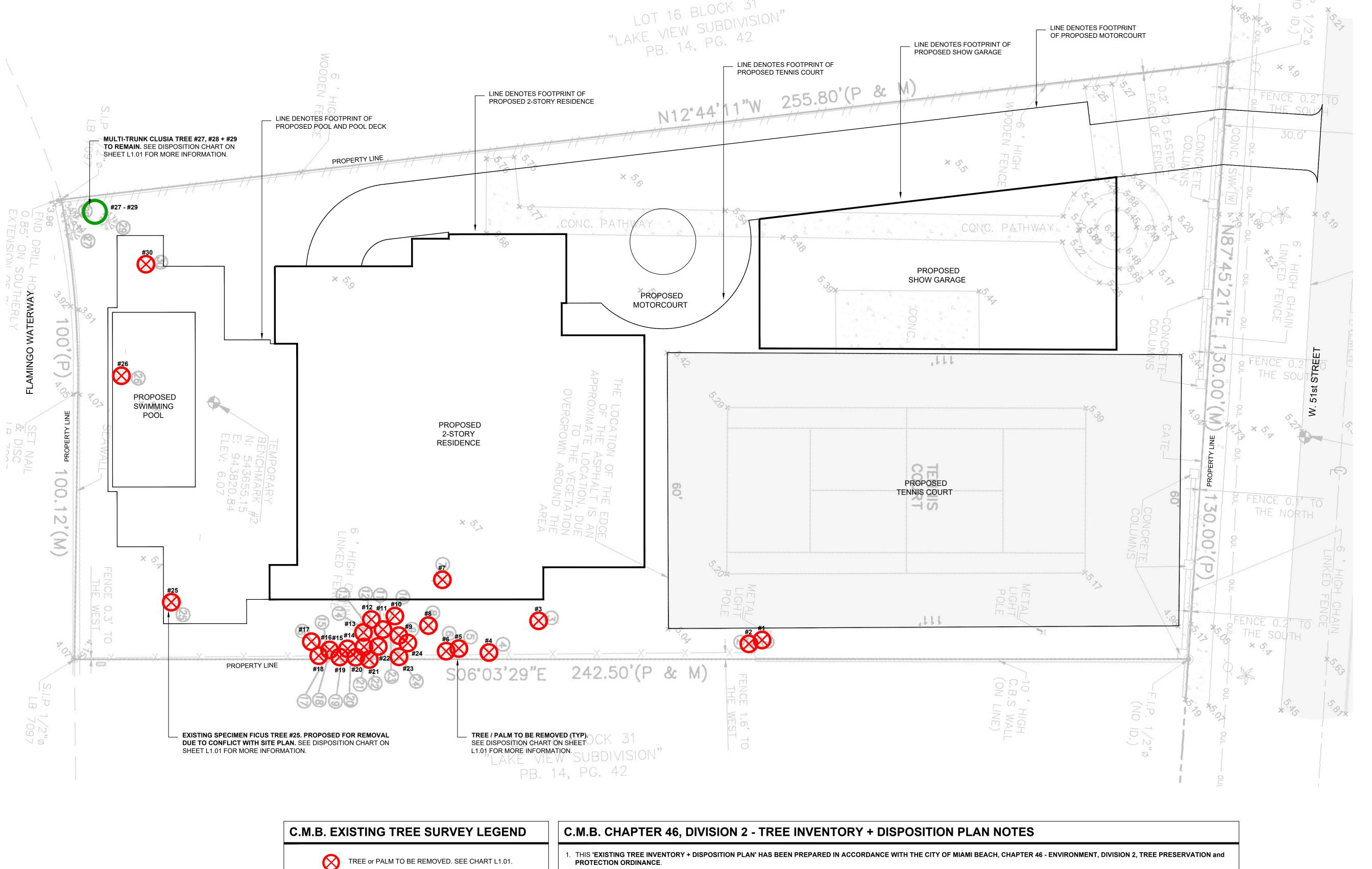
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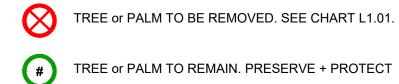
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Sheet No. Date 08-2-2021 L0.00 Project 2144





EXISTING SURVEY LEGEND NOTES

FOR ALL SPECIMEN TREES, WITH A DBH GREATER THAN 12", AN ARBORIST REPORT FROM AN ISA CERTIFIED ARBORIST SHALL BE PROVIDED.

- 2. EXISTING TREE, PALM, AND VEGETATION INFORMATION AS INDICATED HAS BEEN PREPARED AS AN OVERLAY ON THE SURVEY PREPARED BY HADONNE LAND SURVEYORS AND MAPPERS ON 03.04.21
- 3. THE INFORMATION AS PRESENTED HEREIN HAS BEEN FIELD VERIFIED BY THE LANDSCAPE ARCHITECT ON 06.10.21
- 4. MIAMI BEACH P+Z MUST APPROVE LANDSCAPE PLANS PRIOR TO REMOVING ANY TREES OR PALMS WITH A DBH BETWEEN 6" AND 12" INCHES. A WRITTEN TREE REMOVAL PERMIT IS REQUIRED FROM CITY OF MIAMI BEACH URBAN FORESTRY / 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 6" WITHOUT OBTAINING A TREE REMOVAL PERMIT.
- 6. THERE ARE NO TREES or PALMS LOCATED ON THIS PROPERTY THAT WILL REQUIRE TEMPORARY IRRIGATION. ALL EXISTING TREES + PALMS ARE MATURE AND ARE CURRENTLY THRIVING WITHOUT SUPPLEMENTAL IRRIGATION WATER.

EXISTING TREE SURVEY + DISPOSITION PLAN



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C.M.B. EXISTING TREE INVENTORY + DISPOSITION CHART - 420 W 51 ST.

NUMBER	COMMON NAME	BOTANICAL NAME	SPECIMEN	D.B.H. (IN)	HEIGHT (FT)	SPREAD (FT)	CONDITION	DISPOSITION	MITIGATION	COMMENTS
#1	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 35'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#2	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 35'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#3	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 35'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#4	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#5	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#5a	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#6	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#7	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#8	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#9	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#10	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#11	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#12	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#13	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#14	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 5'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#15	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 8'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#16	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 8'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#17	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 8'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#18	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 8'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#19	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 8'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#20	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 8'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#21	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 8'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#22	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 20'	+/- 8'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#23	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 30'	+/- 8'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#24	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 20'	+/- 8'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED
#25	LAUREL FIG	Ficus microcarpa	PROHIBITED	+/- 144"	+/- 60'	+/- 60'	FAIR	REMOVE	140" DBH	PROHIBITED SPECIES. IN CONFLICT WITH SITE DESIGN. MITIGATION PROVIDED
#26	COCONUT PALM	Cocos nusifera	NO	+/- 15"	+/- 40'	+/- 15'	FAIR	REMOVE	1 REP. TREE	IN CONFLICT WITH SITE DESIGN. MITIGATION PROVIDED
#27,28,29	PITCH APPLE	Clusia rosea	YES	+/- 28"	+/- 30'	+/- 50'	FAIR	REMAIN	N/A	PRESERVE + PROTECT
#30	ALEXANDER PALM	Archontophoenix alexandrae	NO	+/- 4"	+/- 10'	+/- 8'	FAIR	REMOVE	N/A	SMALL PALM, NO MITIGATION REQUIRED

TOTAL TREE DBH LOSS: 144" + THE REMOVAL OF (1) PALMS TREE MITIGATION REQUIRED: (48) REPLACEMENT TREES @ 12'HT x 2" DBH X 6' SPREAD PALM MITIGATION REQUIRED: (1) REPLACEMENT TREES @ 12'HT x 2" DBH X 6' SPREAD

EXISTING TREE CHART + MITIGATION SUMMARY

CH. 46 TREE PRESERVATION + PROTECTION / TREE + PALM MITIGATION SUMMARY

TOTAL TREE DBH LOSS: 144"

REPLACEMENT TREES REQUIRED:

(48) REPLACEMENT TREES REQUIRED @ 12' HEIGHT + 2" DBH + 6' SPREAD or (24) REPLACEMENT TREES REQUIRED @ 16' HEIGHT + 4" DBH + 8' SPREAD

REPLACEMENT TREES PROVIDED: 49 REPLACEMENT TREES PROVIDED @ 12'HT + 2" DBH

- (3) NATIVE GUMBO LIMBO TREES TREES @ 20' HEIGHT + 6" DBH + 10' SPREAD = 9 REPLACEMENT TREES

- (10) BRAZILIAN BEAUTYLEAF TREES @ 16' HEIGHT + 4" DBH + 8' SPREAD = **20 REPLACEMENT TREES**

- (13) BAYRUM TREES @ 12' HEIGHT + 2" DBH + 6' SPREAD = **13 REPLACEMENT TREES**- (7) NATIVE SIMPSON STOPPER TREES @ 12' HEIGHT + 2" DBH + 6' SPREAD = **7 REPLACEMENT TREES**

TOTAL PALMS REMOVED: 1 PALMS

REPLACEMENT TREES REQUIRED:

(1) REPLACEMENT TREES REQUIRED @ 12' HEIGHT + 2" DBH + 6' SPREAD or (1) REPLACEMENT TREES REQUIRED @ 16' HT + 4" DBH + 8' SPREAD

REPLACEMENT TREES PROVIDED: 12 REPLACEMENT TREES PROVIDED @ 12'HT + 2" DBH

BREAKDOWN:

- (6) NATIVE PIGEON PLUM TREES @ 16' HEIGHT + 4" DBH + 8' SPREAD = 12 REPLACEMENT TREES

TREE DISPOSITION SUMMARY						
	TOTAL	REMAIN	REMOVE	RELOCATE		
TREES	4	3	1	0		
PALMS	27	0	27	0		

Date Rev.

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Consultant: Name Address Address Tel:

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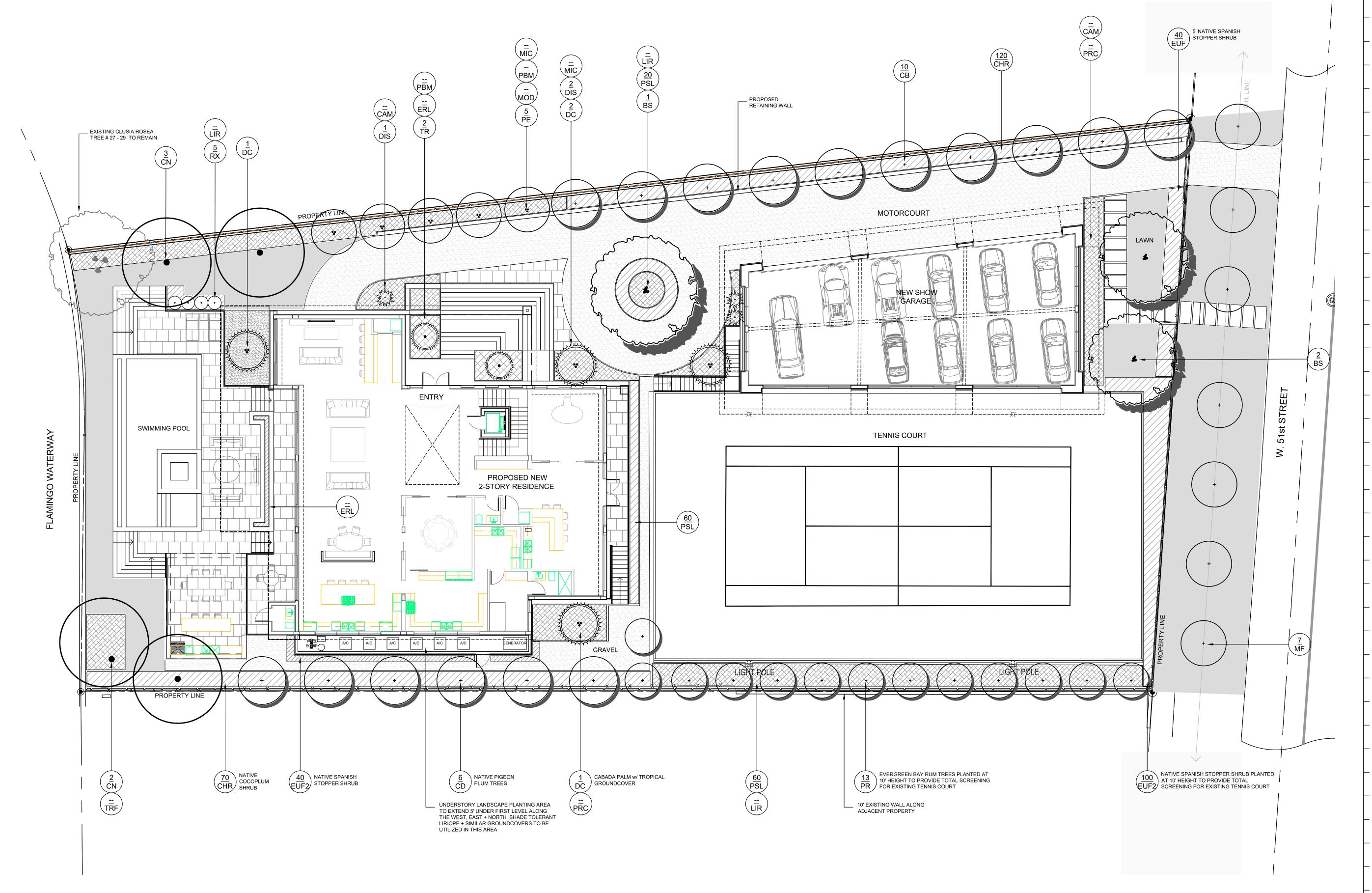


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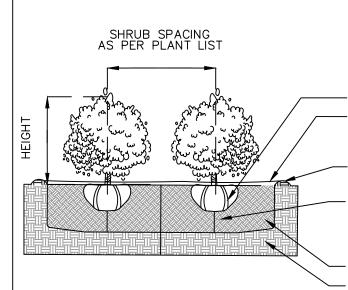
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GROUND FLOOR LANDSCAPE PLAN



PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION, AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY OR AT THE DIRECTION OF THE PROJECT LANDSCAPE ARCHITECT.

- LOOSEN + SCORE BOUND ROOTS

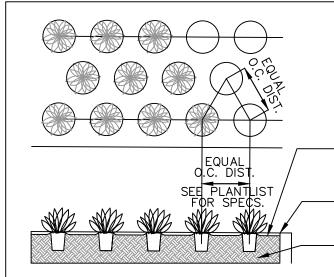
2" MIN DEPTH COCO BROWN MULCH LAYER - REFER TO SPECIFICATION ON SAME SHEET. MULCH SHALL BE LEVEL WITH ALL EDGES OF PAVEMENT, TYPICAL · CONTINUOUS SOIL SAUCER - AS REQUIRED TO CONTAIN WATER

LEAVE MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING, OR COMPACT THOROUGHLY UNDER SHRUB AS NEEDED. ADJUST HEIGHT TO PLACE TOP OF ROOT BALL EVEN WITH GRADE

PLANTING SOIL MIX. SEE SOIL SPEC ON SAME SHEET - EXISTING SOIL OR APPROVED BACKFILL

SHRUB PLANTING DETAIL

N.T.S.



GROUNDCOVERS TO BE STAGGERED AS SHOWN -SPACING BETWEEN ROWS TO BE AT A 60 DEGREE ANGLE OF THE O.C. DISTANCE AS SHOWN

FERTILIZER TO BE APPLIED AT TIME OF PLANTING. FERTILIZER SHALL BE SCOTTS AGRIFORM 20-10-5 PLANTING TABS OR APPROVED EQUAL

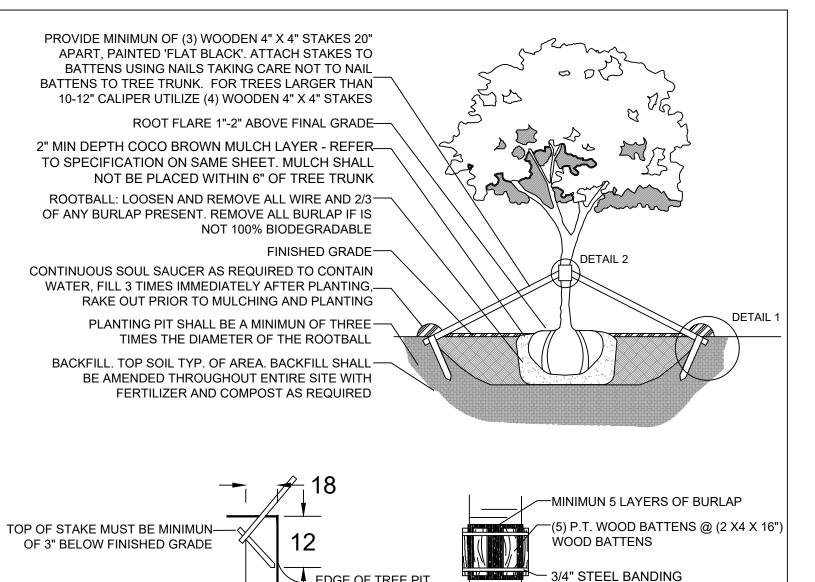
2" MIN DEPTH COCO BROWN MULCH LAYER - REFER

TO SPECIFICATION ON SAME SHEET. MULCH SHALL BE LEVEL WITH ALL EDGES OF PAVEMENT, TYPICAL MULCH SHALL BE LEVEL WITH ALL EDGES OF PAVEMENT TYPICAL

- PLANTING SOIL MIX. SEE SOIL SPEC ON SAME SHEET

GROUNDCOVER PLANTING DETAIL

N.T.S.



EDGE OF TREE PIT

BRACING DETAIL. DETAIL 2

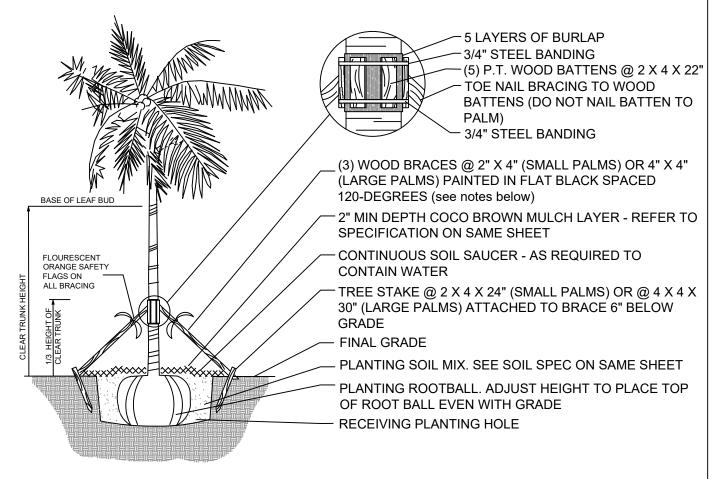
MLC | AMERIGROW 'PREMIUM PINEBARK BROWN' SHREDDED MULCH

SOD NATIVE SEA SHORE PASPALUM LAWN - OVER 2" TOPSOIL BED, SEE PLANTING SPECS

C.M.B. LARGE TREE PLANTING DETAIL

STAKING DETAIL. DETAIL 1

N.T.S.



- 1. PALMS OVER 30' GW HEIGHT, USE MINIMUM (4) 4" X 4" BRACING AND STAKES 2. PRIMARY STAKES SHOULD BE PLACED PARALLEL TO WALKWAYS WHENEVER POSSIBLE 3. RECEIVING PLANTING HOLE SHALL BE APPROXIMATELY 1/3 LARGER THAN ROOTBALL
- 4. BUD SHALL BE PERPENDICULAR TO THE GROUND PLANE 5. NO SCARRED OR BLACKENED TRUNKS
- 6. AMENDED SOIL MIX TO BE ADDED AT THE TIME OF PLANTING NEEDED, SHALL CONSIST OF ATLAS PEAT + SOIL MIX 7036 (COARSE SAND, CANADIAN PEAT, CYPRESS DUST + PERLITE MIX)

C.M.B. PALM PLANTING DETAIL

LANDSCAPE LEGEND

MIAMI BEACH LANDSCAPE ORDINANCE CHAPTER 26 (RS1 - RS4 Single Family Home Residential)

ZONING: RS2

LOT SIZE: 28,316 SF **ACRES**: .65

FRONT YARD - 2 TREES REQUIRED / 3 TREES PROVIDED REAR YARD -3 TREES REQUIRED / 3 TREES PROVIDED

TOTAL OF 5 TREES REQUIRED FOR LOTS UP TO 6,000 SF. 1 ADDITIONAL TREE IS REQUIRED FOR EACH ADDITIONAL 1,000 SF OF LOT AREA.

28,316 - 6,000 = 22,316 SF = **28 TOTAL TREES REQUIRED / 32 TREES PROVIDED.** (3 NATIVE GUMBO LIMBO TREES + 6 NATIVE PIGEON PLUM TREES + 13 BAYRUM TREES + 10 BRAZILIAN BEAUTYLEAF TREES PROVIDED)

DIVERSITY REQUIREMENT

21-30 REQUIRED TREES = 6 TREE SPECIES / 6 SPECIES PROVIDED

30% OF REQUIRED TREES OR .30 X 13 = 9 NATIVE TREES REQUIRED / 21 NATIVE TREES PROVIDED (3 NATIVE GUMBO LIMBO TREES + 6 NATIVE PIGEON PLUM TREES PROVIDED)

LOW MAINTENANCE TREES

50% OF REQUIRED TREES OR .50 X 13 = 15 LOW MAINTENANCE REQUIRED / 22 LM TREES PROVIDED (3 NATIVE GUMBO LIMBO TREES + 6 NATIVE PIGEON PLUM TREES + 13 BAYRUM TREES PROVIDED)

STREET TREE REQUIREMENT

AVERAGE STREET TREE SPACING 20' ON CENTER

W. 51st STREET: 130 LF / 20 = 7 STREET TREES REQUIRED / 7 STREET TREES **PROVIDED** (7 NATIVE SIMPSON STOPPER TREES PROVIDED)

12 SHRUBS (OR VINES) REQUIRED FOR EACH REQUIRED LOT AND STREET TREE or 12 X (35) = 420 SHRUBS REQUIRED / 470 SHRUBS PROVIDED (140 NATIVE SPANISH STOPPER SHRUBS + 190 NATIVE COCOPLUM SHRUBS + 140 NATIVE DWARF BAHAMA COFFEE PROVIDED)

50% OF TOTAL SHRUBS REQUIRED MUST BE NATIVE or .50 X 348 = 210 NATIVE SHRUBS REQUIRED / 470 NATIVE SHRUBS PROVIDED (140 NATIVE SPANISH STOPPER SHRUBS + 190 NATIVE COCOPLUM SHRUBS + 140 NATIVE DWARF BAHAMA COFFEE PROVIDED)

LARGE SHRUBS / SMALL TREES

10% OF TOTAL SHRUBS REQUIRED MUST BE LARGE SHRUBS OR SMALL TREES or .10 X 348 = 42 LARGE SHRUBS REQUIRED / 330 LARGE SHRUBS / SMALL TREES PROVIDED (140 NATIVE SPANISH STOPPER SHRUBS + 190 NATIVE COCOPLUM SHRUBS PROVIDED)

NATIVE LARGE SHRUBS / SMALL TREES

50% OF TOTAL LARGE SHRUBS REQUIRED MUST BE NATIVE or .50 X 35 = 21 NATIVE LARGE SHRUBS REQUIRED / 330 NATIVE LARGE SHRUBS PROVIDED (140 NATIVE SPANISH STOPPER SHRUBS + 190 NATIVE COCOPLUM SHRUBS

LAWN AREA

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

IRRIGATION SYSTEM

100% COVERAGE PROVIDED PURSUANT TO CMB REQUIREMENTS SET IN

PLANT LIST - 420 W 51 ST. KEY | QTY. | NATIVE | COMMON NAME **BOTANICAL NAME HEIGHT, SPECIFICATION, & NOTES TREES** BS YES | GUMBO LIMBO TREE 20' ht min, 10' spread min, 6" dbh, specimen Bursera simaruba 16' ht min, 10' spread min, 6" dbh, standard trunk CB NO BRAZILIAN BEAUTYLEAF TREE Calophyllum brasiliense 6 YES PIGEON PLUM TREE Coccoloba diversifolia 16' ht min, 8' spread min, 4" dbh, standard trunk ALT YES SILVER BUTTONWOOD TREE Conocarpus erectus 'Sericeus' 16' ht min. 8' spread min. 4" dbh. milti trunk CS 13 NO BAYRUM TREE Pimenta racemosa 12' ht min, 6' spread min, 2" dbh, standard trunk, equal to Treeworld Wholesale YES SIMPSON STOPPER TREE Myrcianthes fragrans 12' ht min, 6' spread min, 2" dbh, 5' clear trunk, standard trunk, equal to Treeworld Wholesale **PALMS** 5 NO COCONUT PALM Cocos nucifera 'Maypan' 8' gray wood, leaning, Florida Fancy DC 4 NO CABADA PALM Dypsis cabadae 16' ht OA, full 5 NO ALEXANDER PALM 12'-13' ht clear trunk, 7-8' gray wood, double, #2 thin trunk Ptychosperma elegans ALT YES THATCH PALM 4' -5' height OA Thrinax radiata 5 NO LADY PALM RX Rhapis excelsa 15 gallon, 3' - 4' height SHRUBS 40 YES SPANISH STOPPER SHRUB Eugenia foetida 15 gallon, 5' height, 2' spread, 30" on center EUF2 | 100 | YES | SPANISH STOPPER SHRUB Eugenia foetida 25 gallon, 10' height, 2' spread, 30" on center CHR 190 YES COCOPLUM Chrysobalanus icaco 'Horizontal' 15 gallon, 5' height, 2' spread, 30" on center 7 gallon, 2' - 3' height, 30" spread 140 YES DWARF BAHAMA COFFEE Psychotria ligustrifolia **GROUNDCOVERS** CAM AS REQ NO CARISSA 'EMERALD BLANKET' Carissa macrocarpa 3 gallon, 12" on center, full DIS AS REQ NO DIOON Dioon spp. 7 gallon, 3' height x 3' spread ERL AS REQ YES GOLDEN BEACH CREEPER Ernodea littoralis 1 gallon, 12" on center, full LIR AS REQ NO LILYTURF Liriope muscari 1 gallon, 12" on center, full MIC AS REQ NO WART FERN Microsorum scolopendrium 1 gallon, 12" on center, full MOD AS REQ NO SWISS CHEESE PLANT Monstera deliciosa 3 gallon, 24" on center, full PHILODENDRON 'GREEN CONGO' Same PGC AS REQ NO 3 gallon, 18" on center, full PHILODENDRON 'BURLE MARX' PBM AS REQ NO 3 gallon, 18" on center, full PRC | AS REQ | NO | PHILODENDRON 'ROJO CONGO' | Same 3 gallon, 18" on center, full TRF AS REQ YES DWARF FAKAHATCHEE Tripsacum floridiana 7 gallon, 30" spread, full SOD, AGGREGATE & MULCH

DRB 100% Submission 420 W 51st St MIAMI BEACH, FL 33140 Owner: Name Address Address Email Consultant Name Address Address Email Consultant: Name Address Address Email Consultant Name Address Address Email

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CAWLEY LANDSCAPE Sheet No. 08-2-2021 Date **ARCHITECTURE** 780 NE 69th Street, Suite 200 Miami, Florida 33138 O | 786.536.2961 M | 305.979.1585 CHRISTOPHERCAWLEY.COM | LC 26000460 Project 2144

PLANT LIST, LANDSCAPE CODE + DETAILS

DGA 3/8" DECOMPOSED GRANITE AGGREGATE OR STONE TO BE SELECTED, INSTALLED OVER FILTER FABRIC AND WEED BARRIER MATERIAL / OLIMAR, 2" MIN. DEPTH