NEW RESIDENCE | 4747 NORTH BAY ROAD | MIAMI BEACH, FLORIDA

CLIENT / PROPERTY INFORMATION

PROPERTY ADDRESS
4747 NORTH BAY ROAD
MIAMI BEACH, FL 33140

EXISTING VEGETATION SUMMARY

The existing vegetation located on the property is composed of palms. Two Royal palms in the ROW and two Macarthur palms in the rear yard. The two Macarthur palms in the rear yard will be removed and mitigation will be provided. The Landscape Architect intends to keep all palms unless they are in direct conflict with the proposed addition.

SCOPE OF WORK

- Preservation of existing vegetation and landscape
- New landscape design to complement new contemporary Residence

INDEX OF SHEETS

L-0.0 Cover + Sheet Index
L-1.0 Existing Tree Survey + Disposition Plan
L-2.0 First Level Landscape Plan
L-2.1 Landscape Notes + Details
L-3.0 First Level Irrigation Plan

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date:
01-13-2021
REVISIONS

4 01-13-2021
CHANGE OF ARCHITECT

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PLOT DATE: 2021-02-23

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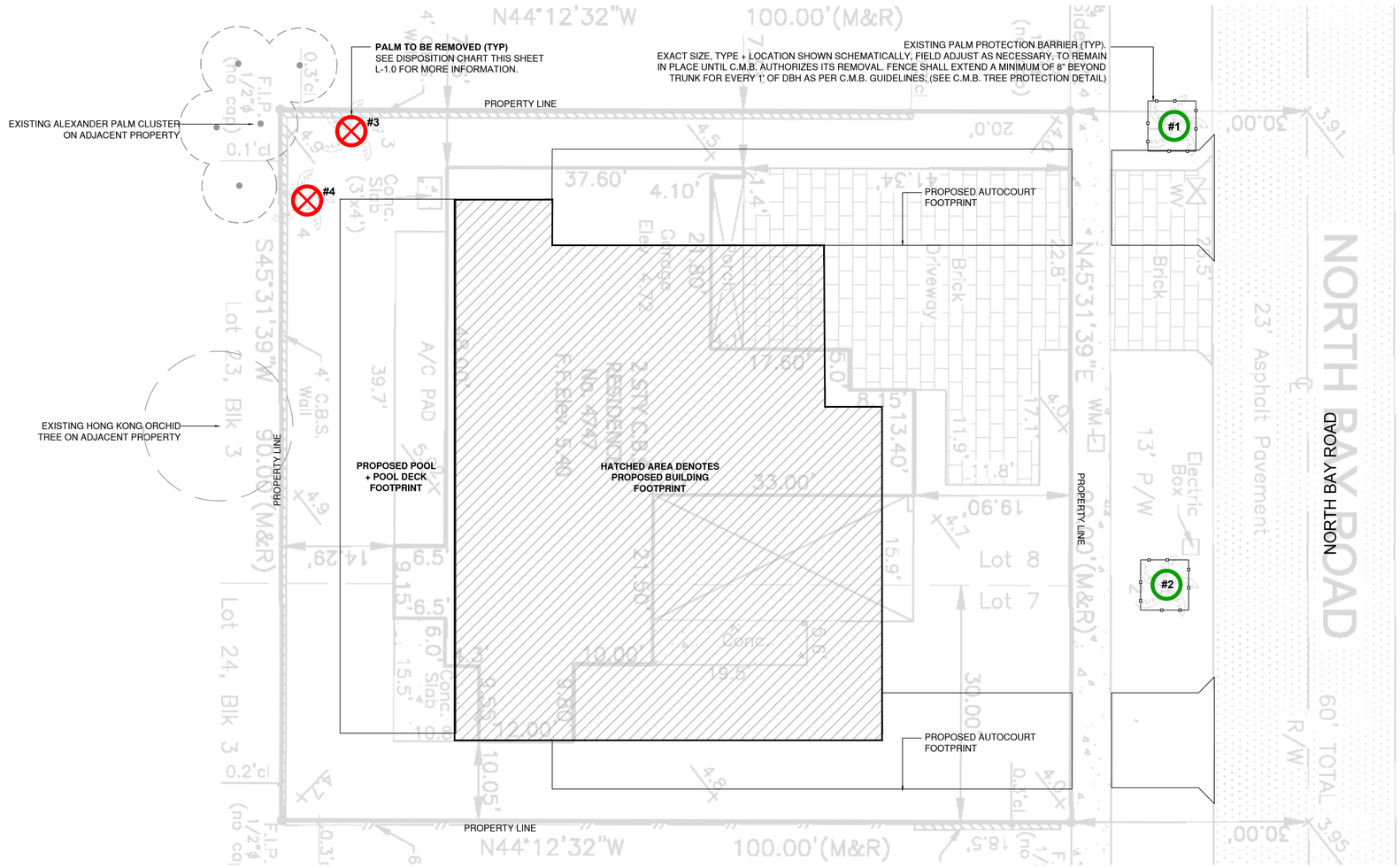


C.M.B. EXISTING PALM SURVEY LEGEND

- EXISTING PALM PROTECTION FENCE
- # EXISTING PALM TO REMAIN / PRESERVE + PROTECT
- # TREE or PALM TO BE REMOVED. SEE CHART L-1.

C.M.B. EXISTING TREE INVENTORY + DISPOSITION CHART - 4747 NORTH BAY ROAD

NUMBER	COMMON NAME	BOTANICAL NAME	SPECIMEN	D.B.H. (IN)	HEIGHT (FT)	SPREAD (FT)	CONDITION	DISPOSITION	CANOPY AREA	CANOPY LOSS / MIT. REQ. (SF)	COMMENTS	PERMIT REQUIR. P+Z - GPM / PW - N.A.
#1	Royal Palm	Roystonia Elata	NO	+/- 1.5'	+/- 40'	+/- 25'	FAIR	**REMAIN**	491 SF	0 SF	**PRESERVE + PROTECT DURING CONSTUCTION**	**N/A**
#2	Royal Palm	Roystonia Elata	NO	+/- 0.8'	+/- 18'	+/- 8'	FAIR	**REMAIN**	50 SF	0 SF	**PRESERVE + PROTECT DURING CONSTUCTION**	**N/A**
#3	Macarthur Palm	Ptychosperma Macarthur	NO	+/- 0.4'	+/- 20'	+/- 8'	FAIR	**REMOVE**	50 SF	50 SF	**D.B.H. IS LESS THAN 6", NO PERMIT REQUIRED FOR REMOVAL**	**N/A**
#4	Macarthur Palm	Ptychosperma Macarthur	NO	+/- 0.4'	+/- 20'	+/- 8'	FAIR	**REMOVE**	50 SF	50 SF	**D.B.H. IS LESS THAN 6", NO PERMIT REQUIRED FOR REMOVAL**	**N/A**

TOTAL MITIGATION REQUIRED: 100 SF
TOTAL MITIGATION PROVIDED : 3,300 SF

C.M.B. PUBLIC WORKS / EROSION + SEDIMENT CONTROL NOTES

1. PROPER EROSION AND SEDIMENT CONTROLS MUST BE INSTALLED BEFORE ANY SOIL DISTURBING ACTIVITIES CAN BEGIN.
2. THE STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
3. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.

C.M.B. CANOPY MITIGATION NOTES

THE CANOPY MITIGATION OF 100 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 3,300 SF OF CANOPY HAS BEEN PROVIDED.

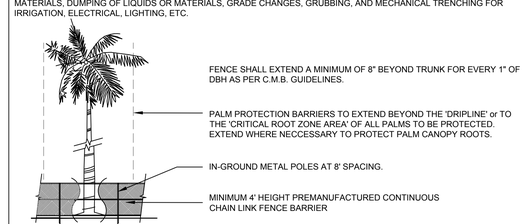
CANOPY MITIGATION SUMMARY
- (4) NATIVE GUMBO LIMBO: 1,200 SF (MB category I @ 300 SF each)
- (2) NATIVE SEA GRAPE: 600 SF (MB category I @ 300 SF each)
- (5) NATIVE SILVER BUTTONWOOD TREES: 750 SF (MB category II @150 SF each)
- (3) NATIVE SIMPSON'S STOPPER TREES: 300 SF (MB category III @100 SF each)
- (9) COCONUT PALMS: 450 SF (MB category IV @ 50 SF each)

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 SURVEYORS OF MIAMI, CORP. DATED 12.12.17**
3. THE INFORMATION AS PRESENTED HEREIN HAS BEEN FIELD VERIFIED BY THE LANDSCAPE ARCHITECT ON **07.12.18**
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 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 6" WITHOUT OBTAINING A TREE REMOVAL PERMIT.**

PALM PROTECTION FENCES SHALL BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION ACTIVITY INCLUDING GRUBBING FOR ALL PALMS THAT ARE 'TO REMAIN, BE PROTECTED, or BE RELOCATED'

NO ACTIVITY OR DISTURBANCE SHOULD OCCUR WITHIN THE FENCED AREAS, INCLUDING VEHICLE USE, STORAGE OF MATERIALS, DUMPING OF LIQUIDS OR MATERIALS, GRADE CHANGES, GRUBBING, AND MECHANICAL TRENCHING FOR IRRIGATION, ELECTRICAL, LIGHTING, ETC.



PROTECTION DETAIL NOTE
CONTRACTOR TO INSTALL 'PALM PROTECTION FENCE BARRIERS' AROUND ALL EXISTING PALMS AT THE START OF THE PROJECT. BARRIERS TO REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT AND SHOULD NOT BE REMOVED OR DROPPED FOR ANY REASON WITHOUT AUTHORIZATION FROM THE CITY OF MIAMI BEACH URBAN FORESTER + PLANNING + ZONING DEPARTMENT

C.M.B. TREE + PALM PROTECTION DETAIL (CHAINLINK)

N.T.S.

EXISTING TREE SURVEY + DISPOSITION PLAN

1/8" = 1'- 0"
0' 8' 16' 24'

Sunshine State One Call of Florida, Inc. 811

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1 11.13.18 URBAN FORESTRY
4 01-13-2021 CHANGE OF ARCHITECT

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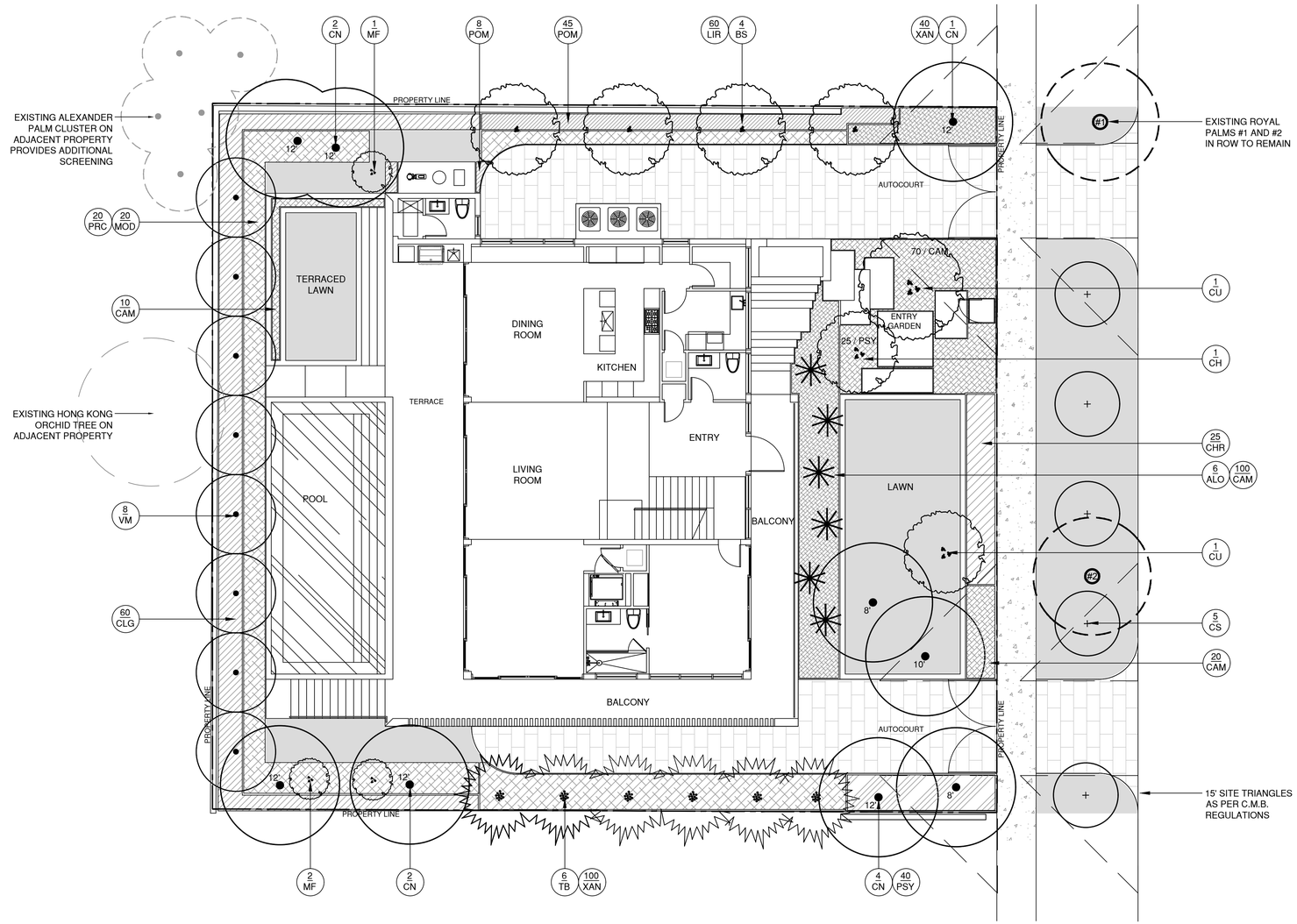

PLANTLIST - 4747 NORTH BAY ROAD

KEY	NATIVE	QTY.	COMMON NAME	BOTANICAL NAME	HEIGHT, SPECIFICATION, & NOTES
TREES					
BS	YES	4	GUMBO LIMBO TREE	Bursera simarubra	100 gallon, 18' height, 8' spread, 6" dbh, standard form , 5' clear trunk
CH	NO	1	POWDERPUFF TREE	Calliandra surinamensis	50 gallon, 10' height, 6' spread, 2' dbh multiform
CS	YES	5	SILVER BUTTONWOOD TREE	Conocarpus erectus 'Sericeus'	100 gallon, 12' height, 5' spread, 3" dbh, 4' clear trunk, Standard form
CU	YES	2	SEA GRAPE TREE	Coccoloba uvifera	(1) @ 100 gallon, 12'-14' height, multi, 8' spread + (1) @ 50 gallon, 10' height, multi, 6' spread
MF	YES	3	SIMPSON STOPPER TREE	Myrcianthes fragrens	12' height, 6' spread, multi-trunk
PALMS					
CN	NO	9	'GR. MALAYAN' COCONUT PALM	Cocos nucifera 'Green Malayan'	8'-12' grey wood, florida fancy, see landscape plans
VM	NO	8	MONTGOMERY PALM	Veitchia montgomeryana	24' overall height, 10' clear trunk, florida fancy
SHRUBS					
CHR	YES	25	COCO PLUM SHRUB	Chrycobalanus icaco	15 gallon, 4' height, full, space 24" on center
CLG	NO	60	SMALL LEAF CLUSIA	Clusia guttifera	15 gallon, 5' height, full, space 3' on center
POM	NO	53	PODOCARPUS 'EVERGREEN'	Podocarpus macrophyllus	15 gallon, 4' height, space 24" on center
PSY	YES	65	DWARF BAHAMA COFFE	Psychotria ligustrifolia	7 gallon, 24' height, space 18" on center

PLANTLIST - 4747 NORTH BAY ROAD

KEY	NATIVE	QTY.	COMMON NAME	BOTANICAL NAME	HEIGHT, SPECIFICATION, & NOTES
BAMBOO					
TB	NO	6	TROPICAL BLUE BAMBOO	Bambusa chungii	field grown,18' height, full to base
TROPICALS, GROUNDCOVERS, + ACCENTS					
ALO	NO	6	BROMELIAD 'ODORATA'	Alcantarea 'Odorata'	3 gallon, 24" height, space 24" on center
CAM	NO	200	DWARF CARISSA	Carissa macro 'Emerald Blanket'	3 gallon, 14" height, space 18" on center
LIR	NO	60	LILYTURF	Liriope muscari	1 gallon, full 18" on center
MOD	NO	20	SWISS CHEESE PLANT	Monstera deliciosa	3 gallon, full 24" on center
XAN	NO	140	PHILODENDRON 'XANADU'	Philodendron 'Xanadu'	3 gallon, full, 18" on center
PRC	NO	20	PHILODENDRON 'ROJO CONGO'	Philodendron 'Rojo Congo'	3 gallon, full 24" on center
SOD, AGGREGATE & MULCH					
MLC	DARK BROWN 'FLORI MULCH' SHREDDED ORGANIC MULCH (NO CYPRESS), TO BE DETERMINED				
SOD	'EMPIRE TURF' ZOYSIA GRASS - OVER 2" TOPSOIL BED, SEE PLANTING SPECS				

CONTRACTOR TO PROVIDE IMAGES OF ALL MAJOR PLANT MATERIAL TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL BEFORE PURCHASE + INSTALLATION. LANDSCAPE CONTRACTOR TO MEET WITH LANDSCAPE ARCHITECT AND OWNER ON SITE TO REVIEW THE PROPOSED DESIGN PRIOR TO SUBMITTING A BID FOR THE PROJECT. THE LANDSCAPE CONTRACTOR IS TO PROVIDE AN ADDITIONAL ALLOWANCE OF $5,000 DOLLARS FOR POTTED PLANTS + MISCELLANEOUS VEGETATION TO BE SELECTED DURING THE INSTALLATION OF THE PROJECT

ROW LANDSCAPE NOTES

1. A ROW PERMIT SHALL BE OBTAINED PRIOR TO THE START OF LANDSCAPE AND IRRIGATION IMPROVEMENTS WITHIN THE ROW. PRELIMINARY APPROVAL FROM THE PUBLIC WORKS URBAN FORESTER ARE REQUIRED PRIOR TO APPLYING FOR LANDSCAPE ROW CONSTRUCTION PERMIT.

FIRST LEVEL LANDSCAPE PLAN

1/8" = 1'- 0"

0' 8' 16' 24'

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1 01.08.19 PUBLIC WORKS COMMENT

2 01-13-2021 CHANGE OF ARCHITECT

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PLOT DATE: 2021-02-23

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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 AND OTHER LANDSCAPE AREAS.

   CARE SHALL BE TAKEN TO AVOID PLACEMENT OF CONSTRUCTION FILL, GRAVEL, AND OR DEBRIS OVER THE ROOTBALLS OF INSTALLED OR EXISTING TREES AND OR PALMS ON SITE.

   SODDED-LAWN AREAS
   2" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT.

   GROUNDCOVER PLANTING BEDS:
   6" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT.

   SHRUB AND HEDGE PLANTING AREAS:
   12" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT.

   TREES, PALMS, SPECIMEN PLANT MATERIAL LOCATIONS:
   REMOVE ALL LIMEROCK PRESENT TO A DEPTH OF AT LEAST 30"BEFORE PLACING NEW PLANTING SOIL. APPLY NEW CLEAN PLANTING SOIL IN PLANTING AREA AS REQUIRED

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 GROUNDCOVERS 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 CONTROLLER. 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 DARK BROWN 'FLORI MULCH' SHREDDED ORGANIC MULCH. NO 'NUGGETS', '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 GROUNDCOVERS, 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.

13. FERTILIZATION: ONE COMPLETE APPLICATION OF GRANULAR FERTILIZER SHALL BE APPLIED PRIOR TO FINAL ACCEPTANCE AND APPROVAL BY THE LANDSCAPE ARCHITECT. FERTILIZER SHALL BE SCOTTS AGRIFORM 20-10-5 PLANTING TABS OR APPROVED EQUALAS RECOMMENDED BY LANDSCAPE CONTRACTOR

14. **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 PRUNIING REQUIRED SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST OR ASCA CONSULTING ARBORIST AND THE CITY URBAN FORESTER SHALL BE CONSULTED.**

15. **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.**

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

17. **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 *AMERICROW 'PREMIUM PINEBARK BROWN'* SHREDDED MULCH OR A CITY APPROVED ALTERNATIVE.**

IRRIGATION NOTES

1. IRRIGATION CONTRACTOR SHALL PROVIDE, FURNISH, AND INSTALL A FULLY AUTOMATIC IRRIGATION SYSTEM WHICH WILL COMPLY WITH ALL LOCAL CODE, STATE CODE, & WATER MANAGEMENT DISTRICT (SWFMD) REQUIREMENTS.

2. THE IRRIGATION CONTRACTOR SHALL SCHEDULE AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH THE OWNER AND THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION OF THE IRRIGATION SYSTEM.

3. CONTRACTOR SHALL INSTALL POP-UP TYPE HEADS. SPRAY TYPE SHALL BE ROTOR, IMPACT, SPRAY, OR BUBBLER AND SHALL BE INSTALLED SO AS NOT TO CAUSE ANY OVERSPRAY ONTO ANY PAVED SURFACES, I.E. ROADS, SIDEWALKS, ETC. ALL FIXTURES SHALL BE "TORO", "RAINBIRD" OR AN APPROVED EQUAL. ALL WORK SHALL BE DONE IN A PROFESSIONAL MANNER AS PER MANUFACTURER'S SPECIFICATIONS.

4. ALL MAIN SUPPLY LINE SHALL BE PVC SCHEDULE 40 PIPE. ALL PVC FITTINGS SHALL BE SCHEDULE 40. THE MAINLINE IS SHOWN SCHEMATICALLY. LOCATE MAIN LINES IN LANDSCAPE AREAS WHERE POSSIBLE AND SLEEVE UNDER PAVEMENT WHERE NECESSARY. MAINLINES SHALL BE IN THE SAME TRENCH WITH THE LATERAL LINES WHERE POSSIBLE.

5. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATION OF AND AVOID & PROTECT ALL UTILITY LINES, DUCTS, BURIED CABLES AND OTHER UTILITIES IN THE AREA. CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR, LIABILITY, AND COSTS INCURRED IN THE DAMAGE OR DESTRUCTION OF SAID UTILITIES. CALL SUNSHINE STATE ONE CALLS 811, 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORK FOR PROPER UTILITY LOCATION AND CLEARANCES.

6. THE CONTRACTOR SHALL SECURE ALL WORK WITH THE PROJECT MANAGER, LANDSCAPE CONTRACTOR AND ALL OTHER CONTRACTORS TO INSURE PROPER INSTALLATION, SCHEDULING, AND PROCEDURE.

7. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT MANAGER TO PROVIDE ELECTRICAL SUPPLY TO THE CONTROLLER, PUMP, ETC. AS NEEDED.

8. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE ALL PERMITS AS MAY BE DEEMED NECESSARY TO PERFORM THE WORK. ENTIRE SYSTEM SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL AND STATE CODES.

9. ALL SLEEVES UNDER PAVEMENT SHALL BE BURIED PER FLORIDA BUILDING CODE, APPENDIX "F". ALL LATERAL SLEEVES UNDER SIDEWALKS SHALL BE BURIED BELOW WALKWAYS AND SHALL BE SCHEDULE 40 PVC. ALL SLEEVING SHALL BE SCHEDULE 40 PVC PIPE AND SHALL BE 2 TIMES THE MAIN OR LATERAL PIPE SIZE.

10. THE CONTRACTOR SHALL CONNECT THE MASTER VALVE (WHEN APPLICABLE) AND ALL ELECTRIC VALVES TO THE CONTROLLER AND PROVIDE PROPER SYNCHRONIZATION.

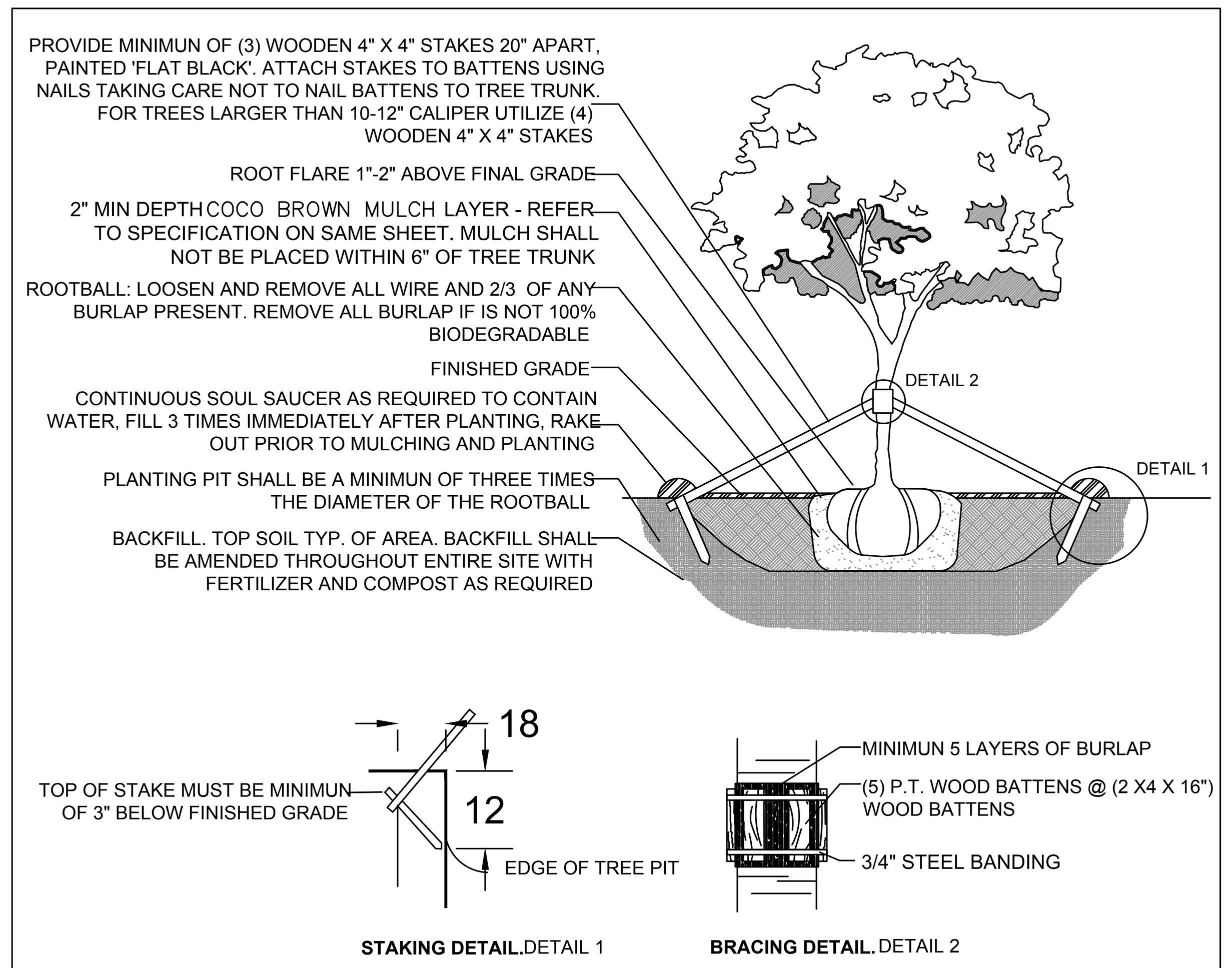
11. ALL LOW VOLTAGE ELECTRIC VALVES SHALL BE #14 DIRECT BURIAL. ALL WIRES UNDER ROADS TO BE PLACED IN A SPERARATE 1" SLEEVE. CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO EXTRA WIRES FOR EMERGENCY POST INSTALLATION WIRING.

12. ALL LINE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST TRENCHING AND LOCATION OF SPRAY HEADS IN THE FIELD FOR EXISTING CONDITIONS, WALKS, UTILITIES, STRUCTURES, AND PLANTINGS TO PROVIDE AND INSURE 100% COVERAGE AND 100% OVERLAP.

13. CONTRACTOR SHALL PROVIDE A ONE-YEAR GUARANTEE ON ALL PARTS AND A 90 DAY GUARANTEE ON LABOR FROM THE DATE OF FINAL ACCEPTANCE..

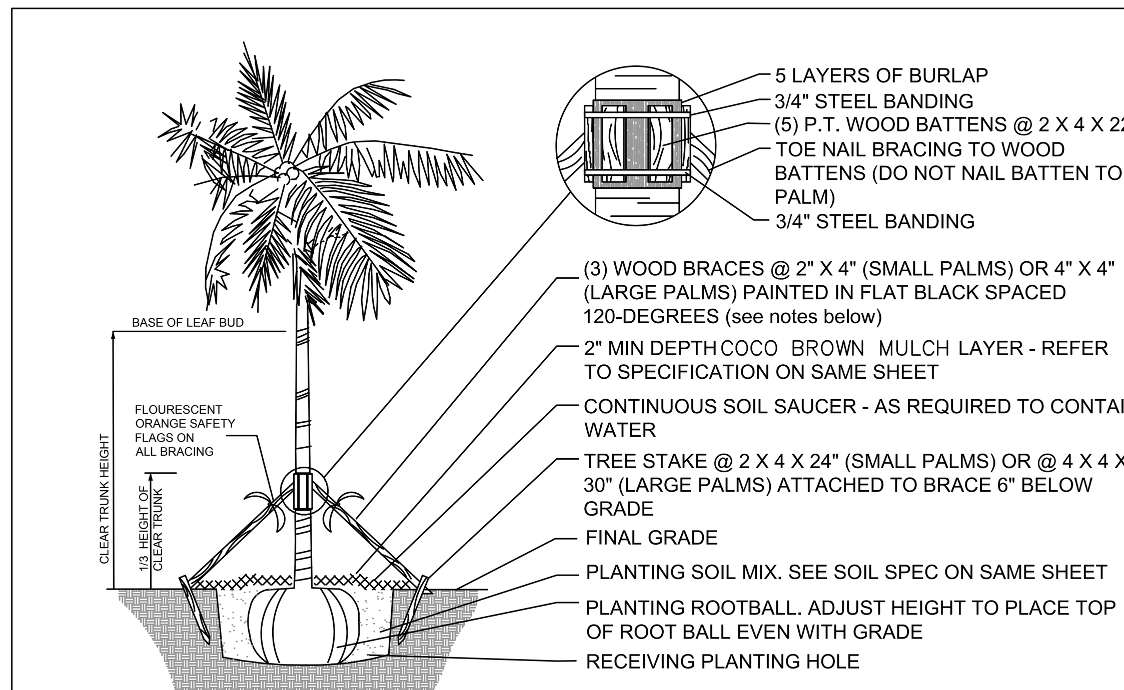
14. THE IRRIGATION CONTRACTOR SHALL RECORD ALL CHANGES MADE TO THE IRRIGATION SYSTEM DURING INSTALLATION, AND PROVIDE AN AS-BUILT DRAWING O THE OWNER'S REPRESENTATIVE UPON COMPLETION AND ACCEPTANCE OF THE WORK.

15. THE IRRIGATION CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE COMPLETE OPERATION AND MAINTENANCE OF THE SYSTEM. THE CONTRACTOR SHALL FURNISH TWO COPIES OF AN IRRIGATION SYSTEM MANAGEMENT MANUAL PREPARED BY THE MANUFACTURER AND THE SYSTEM INSTALLER.



C.M.B. LARGE TREE PLANTING DETAIL

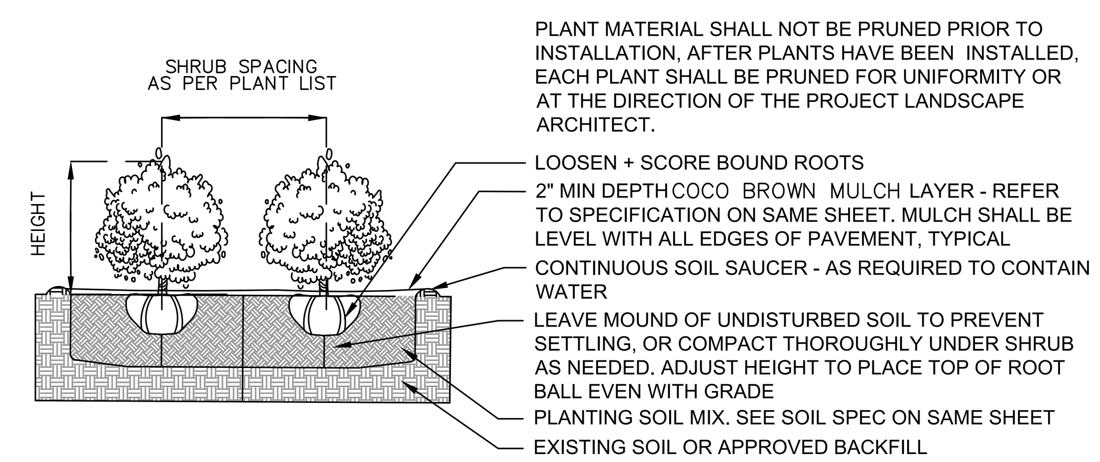
N.T.S.



NOTES:
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

N.T.S.



SHRUB PLANTING DETAIL

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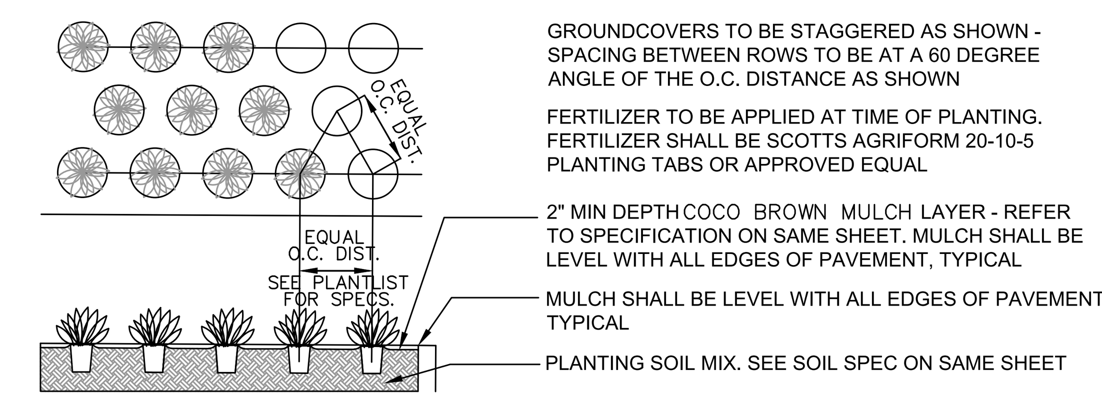

GROUNDCOVER PLANTING DETAIL

N.T.S.

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

1. 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.

2. CARE SHALL BE TAKEN TO AVOID UTILITY OR CONSTRUCTION TRENCHING THROUGH EXISTING TREE OR PALM DRIPLINES 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.

3. 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 CERTIFED 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 ACTVITIES TAKING PLACE.

4. ***ANY ROOT PRUNING, IF REQUIRED DURING THE PROJECT, SHALL BE CONDUCTED UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST OR ACSA CONSULTING ARBORIST. ANY ROOT PRUNING, IF REQUIRED, WILL BE LIMITED TO WHAT IS ABSOLUTELY NECESSARY FOR CONSTRUCTION. ADDITIONALLY, AND 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

1. 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.

2. EXISTING SITE CONDITIONS HAVE BEEN FIELD VERIFIED BY LANDSCAPE ARCHITECT.

3. 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.

4. 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.

LANDSCAPE LEGEND

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

ZONING: RES **LOT SIZE:** 8,999 SF **ACRES:** .20

TREES
FRONT YARD - 2 TREES REQUIRED / 4 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.

8,999 SF - 6,000 SF = 2,999 SF = 8 TOTAL TREES REQUIRED / 15 TREES PROVIDED.
(4 NATIVE GUMBO LIMBO TREES + 1 POWDERPUFF TREE + 5 NATIVE SILVER BUTTONWOOD TREES + 2 NATIVE SEA GRAPE TREES + 3 NATIVE SIMPSON STOPPER TREES PROVIDED)

DIVERSITY REQUIREMENT
6-10 REQUIRED TREES = 3 TREE SPECIES / 5 SPECIES PROVIDED

NATIVE TREES
30% OF REQUIRED TREES OR .30 X 8 = 2.4 NATIVE TREES REQUIRED / 14 NATIVE TREES PROVIDED
(4 NATIVE GUMBO LIMBO TREES + 5 NATIVE SILVER BUTTONWOOD TREES + 2 NATIVE SEA GRAPE TREES + 3 NATIVE SIMPSON STOPPER TREES PROVIDED)

LOW MAINTENANCE TREES
50% OF REQUIRED TREES OR .50 X 8 = 4 NATIVE TREES REQUIRED / 14 NATIVE TREES PROVIDED
(4 NATIVE GUMBO LIMBO TREES + 4 NATIVE SILVER BUTTONWOOD TREES + 2 NATIVE SEA GRAPE TREES + 3 NATIVE SIMPSON STOPPER TREES PROVIDED)

STREET TREE REQUIREMENT
AVERAGE STREET TREE SPACING 20' ON CENTER
*NORTH BAY ROAD: 89 LF / 20 = 5 STREET TREES REQUIRED /**5 STREET TREES PROVIDED***

SHRUBS
12 SHRUBS (OR VINES) REQUIRED FOR EACH REQUIRED LOT AND STREET TREE or 12 X (12) = 156 REQUIRED / 203 SHRUBS PROVIDED
25 NATIVE COCO PLUM SHRUBS + 65 NATIVE BAHAMA COFFEE + 60 SMALL LEAF CLUSIA + 53 PODOCARPUS EVERGREEN SHRUBS PROVIDED

NATIVE SHRUBS
50% OF TOTAL SHRUBS REQUIRED MUST BE NATIVE or .50 X 156 = 78 / 90 NATIVE SHRUBS PROVIDED (25 NATIVE COCO PLUM SHRUBS + 65 NATIVE BAHAMA COFFEE SHRUBS PROVIDED)

LARGE SHRUBS / SMALL TREES
10% OF TOTAL SHRUBS REQUIRED MUST BE LARGE SHRUBS OR SMALL TREES or .10 X 156 = 16 LARGE SHRUBS REQ / 78 LARGE SHRUBS (25 COCO PLUM SHRUBS + 53 PODOCARPUS EVERGREEN SHRUBS PROVIDED)

NATIVE LARGE SHRUBS / SMALL TREES
50% OF TOTAL LARGE SHRUBS REQUIRED MUST BE NATIVE or .50 X 15 = 8 / 8 NATIVE SHRUBS REQ / 25 PROVIDED (25 COCO PLUM 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 CMB REQUIREMENTS SET IN CHAPTER 126

LANDSCAPE NOTES + DETAILS

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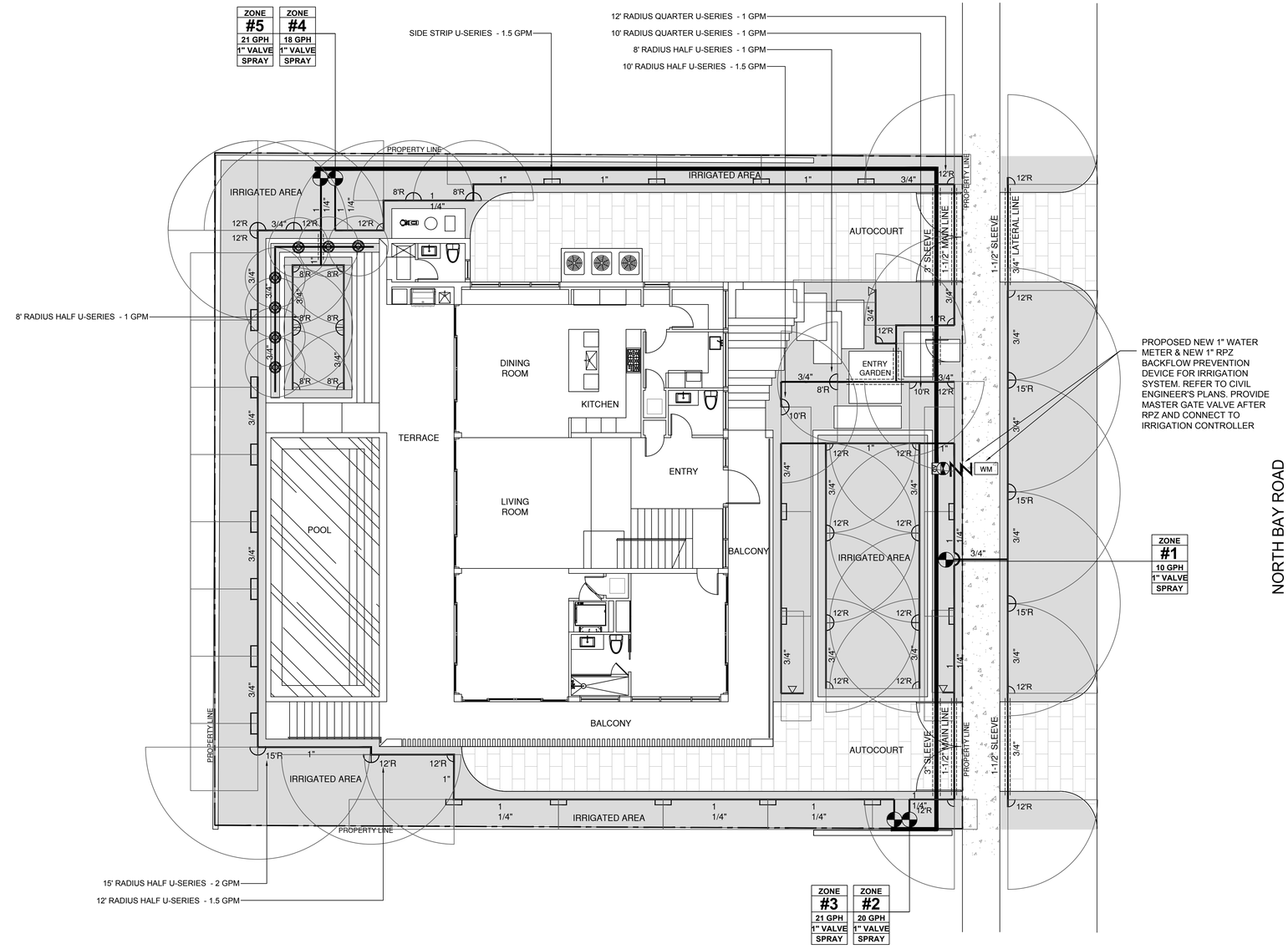

PIPE INSTALLATION + SLEEVE NOTES

FLORIDA BUILDING CODE - APPENDIX F PIPE INSTALLATION - DEPTH OF COVER	
VEHICLE TRAFFIC AREAS	
PIPE SIZE (INCHES)	DEPTH OF COVER (INCHES)
1/2" TO 2 1/2"	18" TO 24"
3" TO 5"	24" TO 30"
6" OR GREATER	30 TO 36"
NON-TRAFFIC AND NON-CULTIVATED AREAS	
PIPE SIZE (INCHES)	DEPTH OF COVER (INCHES)
1/2" TO 1 1/4"	6" TO 12"
1 1/2" TO 2"	12" TO 18"
2 1/2" TO 3"	18" TO 24"
4" OR LARGER	24" TO 36"

FLORIDA BUILDING CODE - APPENDIX F SLEEVE SIZES - PART V A-6	
WATER PIPE SIZE	SLEEVE SIZE
3/4"	1 1/2"
1"	2"
1 1/4"	2 1/2"
1 1/2"	3"
2"	4"
3"	6"
4"	8"
SLEEVES TO EXTEND A MIN. 3' BEYOND ALL PAVED AREAS, BACKFILL AND COMPACTION PER APPENDIX F	

IRRIGATION PLAN NOTES

ALL MAIN LINES, LATERAL LINES and IRRIGATION SPRINKLER COMPONENT LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPES AREAS TO RECEIVE 100% COVERAGE WITH A MINIMUM 50% OVERLAP BY A FULLY AUTOMATIC IRRIGATION SYSTEM with RAIN SENSOR. AFTER SITE INVESTIGATION THE LANDSCAPE CONTRACTOR IS TO PROVIDE A 'SHOP DRAWING' DETAILING THE PROPOSED IRRIGATION SYSTEM DESIGN TO THE LANDSCAPE ARCHITECT AND GENERAL CONTRACTOR.

A ROUGH INSPECTION IS REQUIRED BY THE CITY OF MIAMI BEACH PRIOR TO TRENCH BACKFILLING AND A FINAL INSPECTION SHALL BE REQUIRED PRIOR TO COMPLETION OF IRRIGATION WORK.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) WATER RESTRICTIONS, PHASE II ARE IN EFFECT. NEW LANDSCAPE INSTALLATION SHALL BE EXEMPT PER SFWMD FOR A PERIOD OF SIXTY DAYS AFTER INSTALLATION with CONTRACTOR and/or OWNER TO ASSUME RESPONSIBILITY AFTER 60 DAY PERIOD.

USE EXTREME CAUTION IN ALL AREAS TO AVOID ROOTS OF EXISTING TREES, PALMS + VEGETATION. HAND EXCAVATE AS NECESSARY AND ADJUST ALL MAIN AND LATERAL IRRIGATION LINES BASED ON FIELD CONDITIONS. TRENCHING THRU ROOT ZONES SHALL BE AVOIDED AND ALL IRRIGATION LINES ARE TO RUN OUTSIDE OF THE ROOT ZONES OF ALL EXISTING VEGETATION

ROW LANDSCAPE NOTES

1. A ROW PERMIT SHALL BE OBTAINED PRIOR TO THE START OF LANDSCAPE AND IRRIGATION IMPROVEMENTS WITHIN THE ROW. PRELIMINARY APPROVAL FROM THE PUBLIC WORKS URBAN FORESTER ARE REQUIRED PRIOR TO APPLYING FOR LANDSCAPE ROW CONSTRUCTION PERMIT.

IRRIGATION LEGEND

- WM — 1" IRRIGATION METER REFER TO CIVIL ENGINEER'S PLANS
- RPZ (REDUCED PRESSURE ZONE) REFER TO CIVIL ENGINEER'S PLANS
- GV — 1" MASTER VALVE FOR TOTAL SYSTEM SHUT OFF. CONNECT TO CONTROLLER
- C — RAINBIRD ESP-LX MODULAR SERIES CONTROLLER W/ RAINBIRD RAIN SENSOR
- RS — RAINBIRD RSD SERIES RAIN SENSOR ATTACHED TO CONTROLLER
- 1" ELECTRIC VALVES-RAINBIRD PEB SERIES OR APPROVED EQUAL, IN 10" ROUND VALVE BOX
- JB — JUNCTION BOX w/ WATER PROOF CONNECTORS REFER TO ELECTRICAL ENGINEER'S PLANS
- 1 1/2" PVC Main Supply Line - Sch 40
- PVC LATERAL LINE (Sch. 160)
- PIPE in SLEEVE (See Sizing Chart)
- PIPE CONNECTION
- PIPE CROSSING
- ZONE #1 — ZONE DESIGNATION & INFORMATION
- 25 GPM — GALLONS PER MINUTE
- 1" VALVE — VALVE SIZE
- SPRAY — IRRIGATION TYPE
- RAINBIRD 1800 PRS - U SERIES NOZZE 10", 12", 15" POP-UP / QUARTER, HALF, FULL RADIUS DIAMETERS AS NOTED
- RAINBIRD 1800 SERIES STRIP-TYPE 15EST (END STRIP), 15 CST (CENTER STRIP) 1.5 GPM
- RAINBIRD -5 SERIES, MPR STREAM BUBBLER NOZZLES, 5' RADIUS, 1.5 GPM

FIRST LEVEL IRRIGATION PLAN

1/8" = 1'- 0"

0' 8' 16' 24'

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