



C.M.B. LANDSCAPE PERMIT SUBMITTAL
NEW RESIDENCE | 110 NORTH HIBISCUS | MIAMI BEACH, FLORIDA

CLIENT / PROPERTY INFORMATION

PROPERTY ADDRESS
110 NORTH HIBISCUS
MIAMI BEACH, FL 33139

SCOPE OF WORK

- New landscape design to complement new Residence

INDEX OF SHEETS

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L-6 Irrigation Plan

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revised:

sheet no.

L-0

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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.

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO DIGGING IN ANY AREA. THE CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 48 HOURS MINIMUM PRIOR TO DIGGING FOR VERIFICATION OF ALL UNDERGROUND UTILITIES. IRRIGATION AND ALL OTHER OBSTRUCTIONS AND COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO INITIATING OPERATIONS. DRAWINGS ARE PREPARED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARING DOCUMENTS.
2. THE CONTRACTOR IS RESPONSIBLE TO ENSURE PROPER WATERING AND MAINTENANCE OF NEW AND RELOCATED PLANT MATERIALS DURING THE ONE YEAR WARRANTY PERIOD.
3. CONTRACTOR IS TO REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
4. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH RELATED CONTRACTORS AND WITH THE GENERAL CONSTRUCTION OF THE PROJECT IN ORDER NOT TO IMPEDE THE PROGRESS OF THE WORK OF OTHERS OR THE CONTRACTOR'S OWN WORK.
5. ALL IMPROVEMENTS ARE TO BE CONSTRUCTED AND/OR INSTALLED WITHIN THE EXISTING STATE AND/OR LOCAL RIGHT OF WAY.
6. ALL SITE IMPROVEMENTS INCLUDING GRADING AND DRAINAGE TO BE BY OTHERS. REFER TO ARCHITECTURE AND ENGINEERING PLANS FOR ALL ADDITIONAL INFORMATION.
7. THE LOCATION OF THE LANDSCAPE HOLDING AREA WILL BE IDENTIFIED BY THE OWNER OR OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ADHERE TO THE ACCESS ROUTES TO AND FROM THE HOLDING AREA WITHOUT DISRUPTING OR IMPEDING ACCESS TO THE SITE BY OTHERS. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL PLANT MATERIALS, INCLUDING TEMPORARY IRRIGATION AND FERTILIZATION IF NECESSARY DURING CONSTRUCTION, WHILE BEING HELD IN LANDSCAPE HOLDING AREAS.
8. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATION. PRIOR TO COMMENCEMENT OF THE LANDSCAPE PLANTING WORK, THE CONTRACTOR SHALL PROVIDE COMPLETE SOIL TESTS WITH RECOMMENDATIONS FOR SOIL TREATMENT IN THE CONSTRUCTION AREA.
9. LANDSCAPE CONTRACTOR SHALL FIELD STAKE THE LOCATION OF ALL PLANT MATERIAL OR FIELD STAKE THE PLANTS PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT. NOTE: NO PLANTING SHALL COMMENCE UNTIL THERE IS A FUNCTIONAL IRRIGATION SYSTEM IN THE AREA TO BE PLANTED. NO TREES SHALL BE PLANTED ON TOP OF IRRIGATION LINES.
10. LANDSCAPE CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES AND/ OR EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
11. ANY SUBSTITUTIONS IN SIZE AND/OR PLANT SPECIES MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO MODIFICATION OF THE CONTRACT, PURCHASING AND DELIVERY OF PLANTS. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE BEFORE PLANTING CAN BEGIN. ALL PLANT MATERIALS WILL NOT INCLUDE ANY PLANTS CONSIDERED TO BE INVASIVE BY THE CITY OF MIAMI BEACH.
12. A CITY OF MIAMI BEACH ROW PERMIT SHALL BE OBTAINED FROM PUBLIC WORKS FOR ALL LANDSCAPE + IRRIGATION IMPROVEMENTS WITHIN THE ROW. ALL REQUIRED STREET TREES + ROW LANDSCAPE + IRRIGATION SHALL BE REVIEWED AND APPROVED BY CMB PUBLIC WORKS + URBAN FORESTRY.
13. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, GENERAL NOTES AND THE PROJECT MANUAL AND/OR SPECIFICATIONS FOR FURTHER AND COMPLETE LANDSCAPE PLANTING INSTRUCTIONS.
14. CONTRACTOR + LANDSCAPE ARCHITECT TO MEET ON SITE PRIOR TO COMMENCEMENT OF LANDSCAPE INSTALLATIONS. CONTRACTOR TO PROVIDE IMAGES OF ALL PROPOSED TREES TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR PURCHASING AND INSTALLATION.
15. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH PERMANENT OR TEMPORARY IRRIGATION WORK. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING AS REQUIRED BY OWNER'S REPRESENTATIVE TO SUPPLEMENT IRRIGATION WATERING AND RAINFALL. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS, REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION.
16. LANDSCAPE CONTRACTOR SHALL CLEAN THE WORK AREAS AT THE END OF EACH WORKING DAY. RUBBISH AND DEBRIS SHALL BE COLLECTED AND DEPOSITED OFF-SITE OR IN AN APPROVED DISPOSAL AREA DAILY. ALL MATERIALS, PRODUCTS AND EQUIPMENT SHALL BE STORED IN AN ORGANIZED FASHION AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
17. SITE DISTANCE CONCERNS MUST BE MAINTAINED FOR CLEAR SITE VISIBILITY FROM THIRTY (30) INCHES TO SEVENTY-TWO (72) INCHES. TREE TRUNKS ARE EXCLUDED AS SPECIFIED IN APPROPRIATE MUNICIPAL CODES.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE GUARANTEE OF ALL PLANT MATERIAL FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION. SUBSTANTIAL COMPLETION CONSTITUTES THE BEGINNING OF GUARANTEE PERIOD.
19. THE LOCATIONS OF PLANTS, AS SHOWN IN THESE PLANS, ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS TO COMPLY WITH SAFETY CRITERIA. TO AVOID CREATING UNSAFE SIGHT CONDITIONS, OR AS OTHERWISE DIRECTED BY OR APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.

LANDSCAPE NOTES

1. EXISTING SITE CONDITIONS HAVE BEEN FIELD VERIFIED BY LANDSCAPE ARCHITECT.
2. LANDSCAPE CONTRACTOR TO PROVIDE LANDSCAPE ARCHITECT IMAGES OF ALL PROPOSED TREES + PALMS PRIOR TO PURCHASE + INSTALLATION
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.
5. A ROW PERMIT SHALL BE OBTAINED FROM THE CMB PUBLIC WORKS FOR ALL LANDSCAPE + IRRIGATION IMPROVEMENTS IN THE ROW. ALL REQUIRED STREET TREES SHALL BE REVIEWED AND APPROVED BY THE CMB PUBLIC WORKS + URBAN FORESTRY

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.
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.

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

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

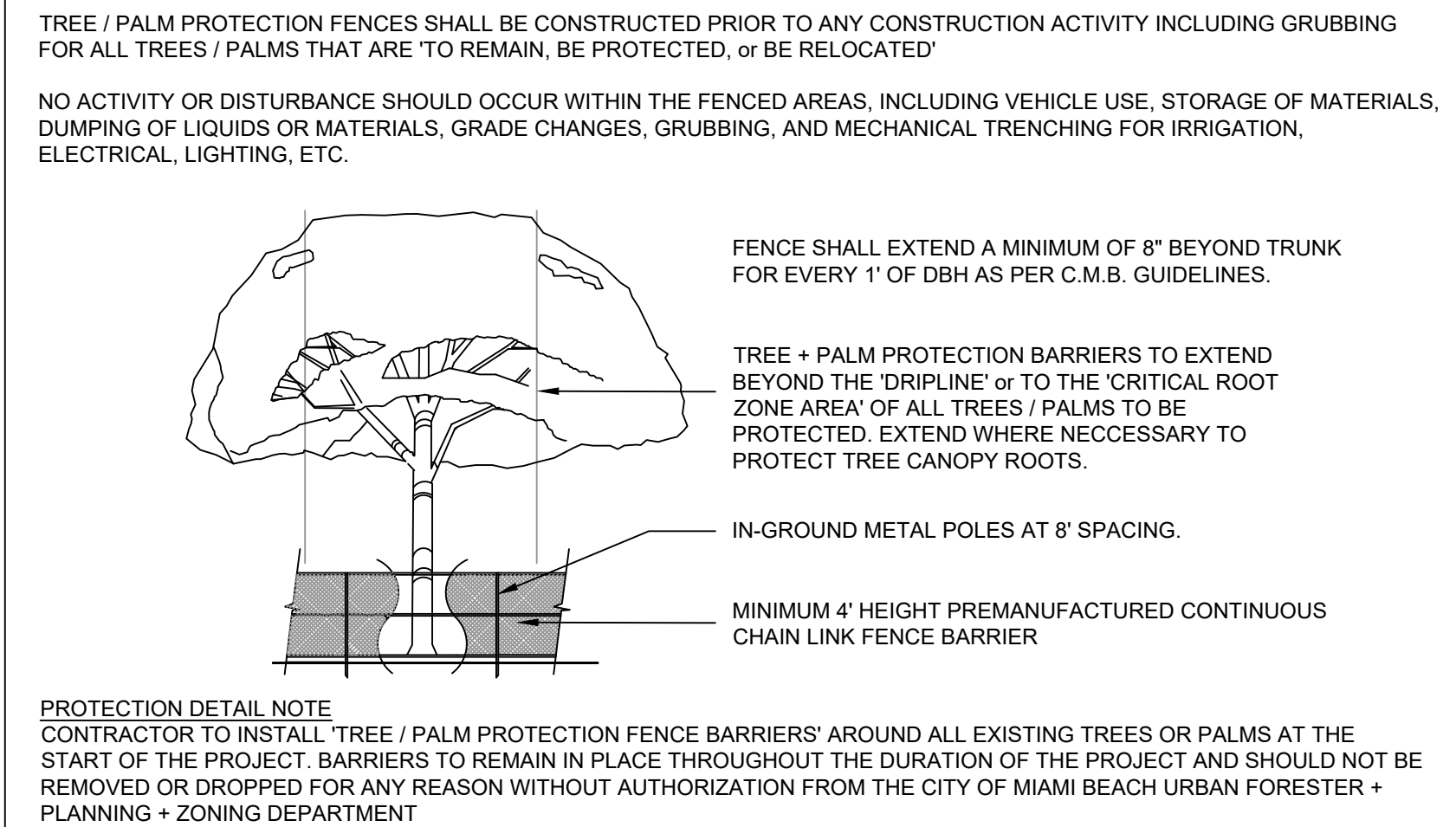
TREES, PALMS, SPECIMEN PLANT MATERIAL LOCATIONS:
REMOVE ALL LIMEROCK PRESENT TO A DEPTH OF AT LEAST 30" BEFORE PLACING NEW PLANTING SOIL. APPLY NEW CLEAN PLANTING SOIL IN PLANTING AREA AS REQUIRED
5. THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO BRING ALL GRADES TO WITHIN 2" OF FINAL GRADES. THIS SHALL 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 CITY OF MIAMI BEACH 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 APPROVED NATURAL SHREDDED COCO BROWN MULCH. MULCH FREE FROM WEEDS AND PESTS. 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. ALL TREES, PALMS, SHRUBS AND GROUNDCOVERS, AND SOD / LAWN SHALL CARRY A ONE-YEAR WARRANTY FROM THE DATE OF FINAL ACCEPTANCE.

11. 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.
12. 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.
13. 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.

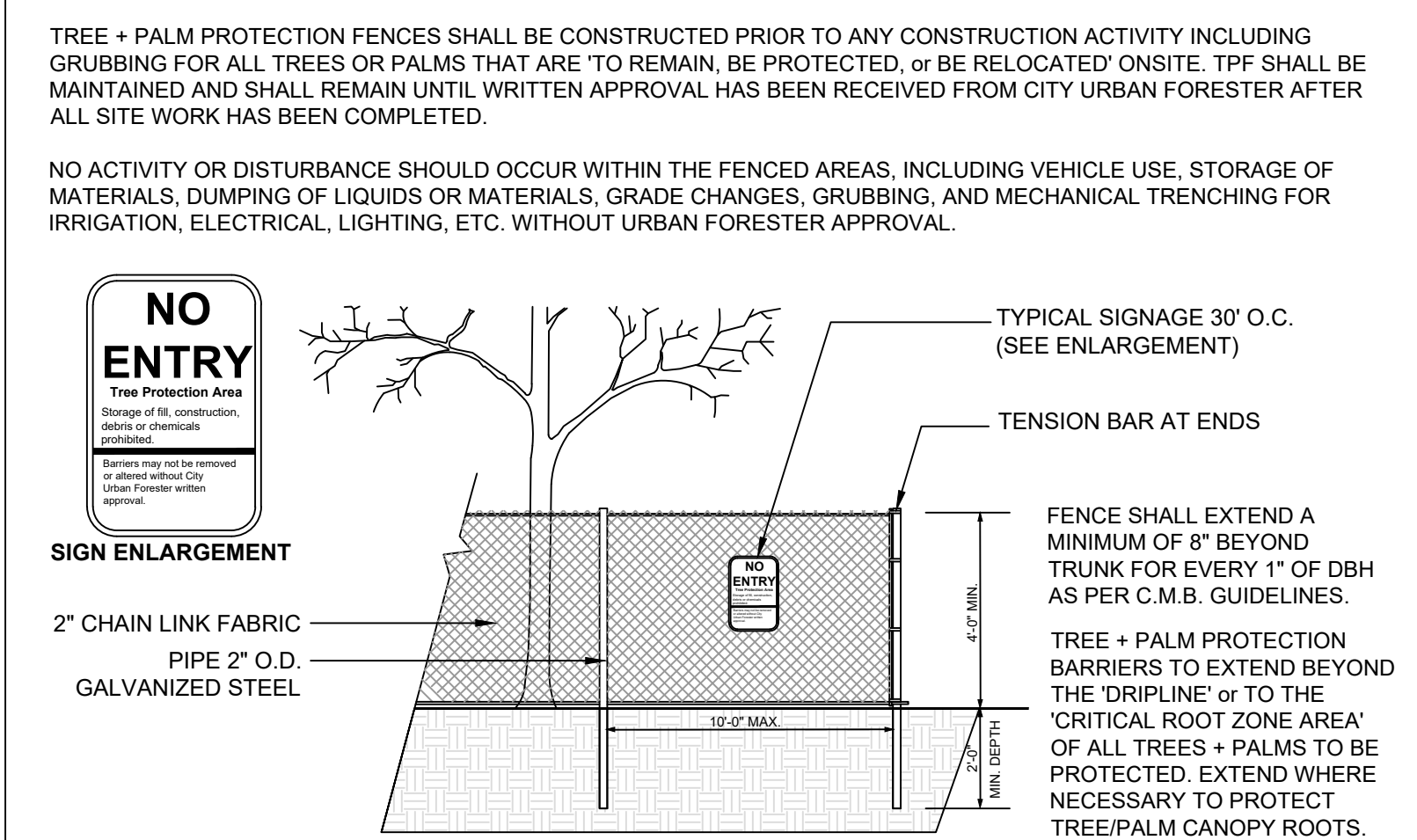
A MINIMUM OF 6 MONTHS OF SUPPLEMENTAL HAND OR AUTOMATIC IRRIGATION SYSTEM WATERING SHALL BE REQUIRED TO AID IN NEW TREE OR PALM ESTABLISHMENT.
13. FERTILIZATION: ONE COMPLETE APPLICATION OF GRANULAR FERTILIZER SHALL BE APPLIED PRIOR TO FINAL ACCEPTANCE AND APPROVAL BY THE LANDSCAPE ARCHITECT. FERTILIZER SHALL BE SCOTTS AGRIFORM 20-10-5 PLANTING TABS OR APPROVED EQUAL AS 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 CITY OF MIAMI BEACH 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.
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.
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 **AMERIGROW PREMIUM PINEBARK BROWN SHREDDED MULCH** OR A CITY APPROVED ALTERNATIVE.





C.M.B. TREE / PALM PROTEC. DETAIL (CHAINLINK)

N.T.S.



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

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 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.
- 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 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.

C.M.B. EXISTING TREE INVENTORY + DISPOSITION CHART - 110 NORTH HIBISCUS

NUMBER	COMMON NAME	BOTANICAL NAME	SPECIMEN	D.B.H. (IN)	HEIGHT (FT)	SPREAD (FT)	CONDITION	DISPOSITION	MITIGATION	COMMENTS
#1	QUEEN CRAPE MYRTLE	Lagerstroemia speciosa	YES	+/- 16"	+/- 30'	+/- 20'	FAIR	REMOVED	16" DBH	NO LONGER ON SITE. MITIGATION PROVIDED
#2	ROYAL POINCIANA TREE	Delonix regia	YES	+/- 14.5"	+/- 20'	+/- 20'	POOR	REMAIN	N/A	PRESERVE + PROTECT DURING CONSTRUCTION
#3	BOTTLE BRUSH TREE	Callistemon viminalis	YES	+/- 14"	+/- 20'	+/- 15'	FAIR	REMOVED	14" DBH	NO LONGER ON SITE. MITIGATION PROVIDED
#4	UNKNOWN	-----	NO	+/- 8"	+/- 15'	+/- 15'	FAIR	REMOVED	8" DBH	NO LONGER ON SITE. MITIGATION PROVIDED
#5	BOTTLE BRUSH TREE	Callistemon viminalis	NO	+/- 14"	+/- 20'	+/- 15'	FAIR	REMOVED	14" DBH	NO LONGER ON SITE. MITIGATION PROVIDED
#6	DRACENA	Dracena marginata	NO	+/- 8"	+/- 15'	+/- 12'	FAIR	REMOVED	1 REP. TREE	NO LONGER ON SITE. MITIGATION PROVIDED
#7	Areca Palm	Dypsis lutescens	NO	+/- 18"	+/- 15'	+/- 10'	FAIR	REMOVE	1 REP. TREE	IN CONFLICT WITH SITE DESIGN. MITIGATION PROVIDED
#8	ROYAL PALM	Roystonea elata	NO	+/- 10"	+/- 20'	+/- 15'	FAIR	REMAIN	N/A	ON ADJACENT PROPERTY / PRESERVE + PROTECT
#9	ROYAL PALM	Roystonea elata	NO	+/- 10"	+/- 40'	+/- 15'	FAIR	REMAIN	N/A	PRESERVE + PROTECT DURING CONSTRUCTION
#10	ALEXANDER PALM	Pythosperma elegans	NO	+/- 3"	+/- 18'	+/- 6'	FAIR	REMOVED	1 REP. TREE	NO LONGER ON SITE. MITIGATION PROVIDED
#11	ALEXANDER PALM	Pythosperma elegans	NO	+/- 3"	+/- 20'	+/- 8'	FAIR	REMOVED	1 REP. TREE	NO LONGER ON SITE. MITIGATION PROVIDED
#12	ALEXANDER PALM	Pythosperma elegans	NO	+/- 3"	+/- 20'	+/- 6'	FAIR	REMOVED	1 REP. TREE	NO LONGER ON SITE. MITIGATION PROVIDED
#13	ALEXANDER PALM	Pythosperma elegans	YES	+/- 3"	+/- 20'	+/- 6'	FAIR	REMOVED	1 REP. TREE	NO LONGER ON SITE. MITIGATION PROVIDED
#14	ALEXANDER PALM	Pythosperma elegans	NO	+/- 3"	+/- 18'	+/- 8'	FAIR	REMOVE	1 REP. TREE	IN CONFLICT WITH SITE DESIGN. MITIGATION PROVIDED
#15	ALEXANDER PALM	Pythosperma elegans	NO	+/- 3.5"	+/- 20'	+/- 8'	FAIR	REMOVE	1 REP. TREE	IN CONFLICT WITH SITE DESIGN. MITIGATION PROVIDED
#16	HONG KONG ORCHID	Bauhinia x blakeana	NO	+/- 8"	+/- 18'	+/- 20'	FAIR	REMOVE	8" DBH	IN CONFLICT WITH SITE DESIGN. MITIGATION PROVIDED
#17	TRAVELERS PALM	Ravenala madagascariensis	NO	+/- 18"	+/- 23'	+/- 20'	FAIR	REMOVE	1 REP. TREE	IN CONFLICT WITH SITE DESIGN. MITIGATION PROVIDED
#18	ARECA PALM	Dypsis lutescens	YES	+/- 6"	+/- 20'	+/- 10'	FAIR	REMOVE	1 REP. TREE	IN CONFLICT WITH SITE DESIGN. MITIGATION PROVIDED
#19	UMBRELLA TREE	Schefflera actinophylla	YES	+/- 17	+/- 25'	+/- 18'	FAIR	REMOVE	17" DBH	INVASIVE SPECIES. NO MITIGATION REQUIRED.

TOTAL TREE DBH LOSS: 77" + THE REMOVAL OF (10) PALMS *
TREE MITIGATION REQUIRED: (26) REPLACEMENT TREES @ 12HT x 2" DBH X 6' SPREAD
PALM MITIGATION REQUIRED: (10) REPLACEMENT TREES @ 12HT x 2" DBH X 6' SPREAD

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

TOTAL TREE DBH LOSS: 77" / TOTAL NATIVE TREES LOST: 0

REPLACEMENT TREES REQUIRED:

(26) REPLACEMENT TREES REQUIRED @ 12' HEIGHT + 2" DBH + 6' SPREAD or (13) REPLACEMENT TREES REQUIRED @ 16' HEIGHT + 4" DBH + 8' SPREAD

REPLACEMENT TREES PROVIDED: 26 REPLACEMENT TREES PROVIDED @ 12HT + 2" DBH

BREAKDOWN:

- (8) NATIVE WILD TAMARIND TREES @ 16' HEIGHT + 4" DBH + 8' SPREAD = 16 REPLACEMENT TREES
- (5) NATIVE PITCH APPLE TREES @ 16' HEIGHT + 6" DBH + 6' SPREAD = 10 REPLACEMENT TREES

TOTAL PALMS REMOVED: 10 PALMS

REPLACEMENT TREES REQUIRED:

(10) REPLACEMENT TREES REQUIRED @ 12' HEIGHT + 2" DBH + 6' SPREAD

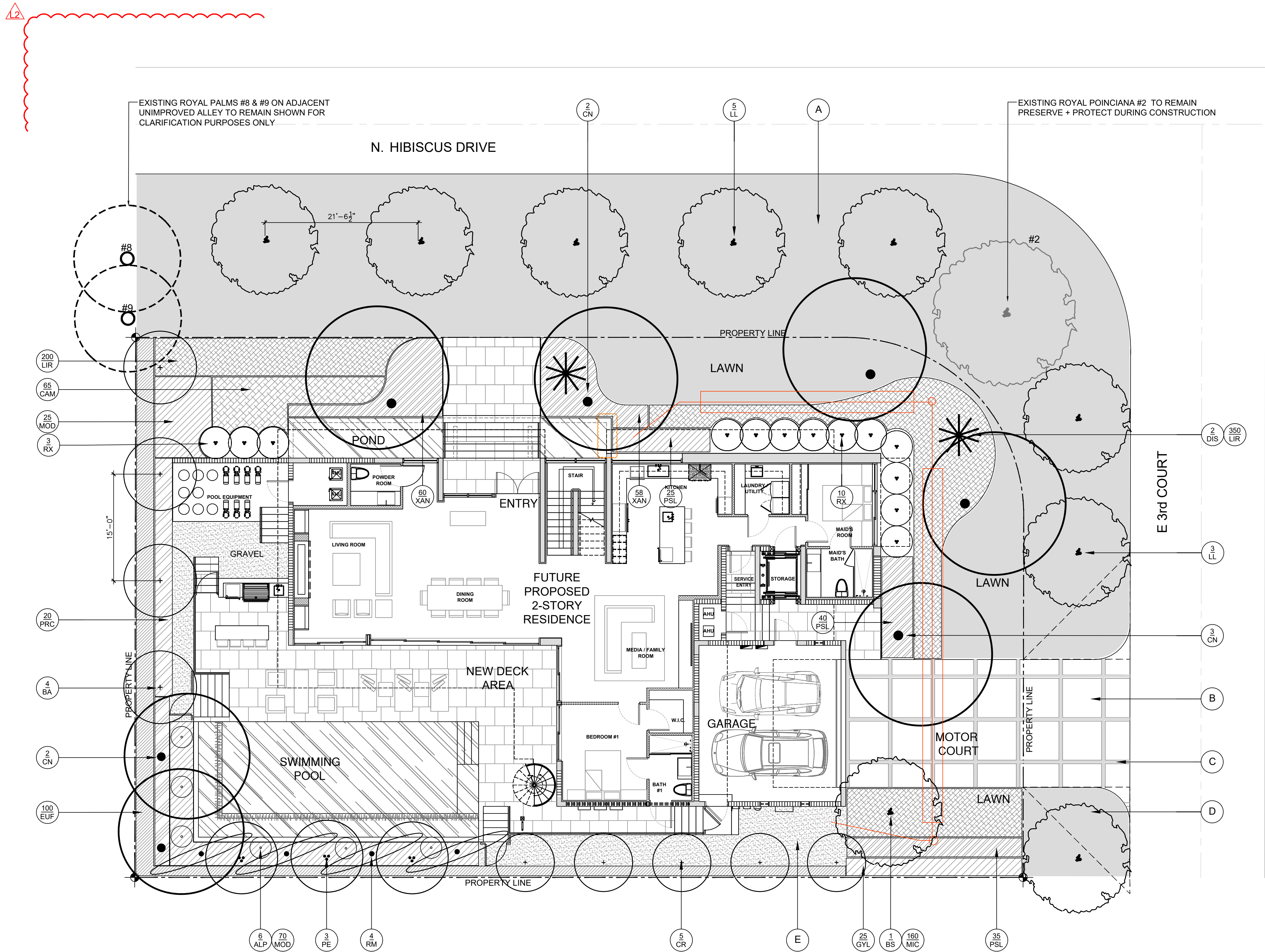
REPLACEMENT TREES PROVIDED: 10 REPLACEMENT TREES PROVIDED @ 12HT + 2" DBH

BREAKDOWN:

- (4) VERAWOOD TREES @ 16' HEIGHT + 4" DBH + 6' SPREAD = 8 REPLACEMENT TREES
- (1) NATIVE GUMBO LIMBO TREE @ 16' HEIGHT + 6" DBH + 6' SPREAD = 2 REPLACEMENT TREES

TREE DISPOSITION SUMMARY

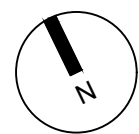
	TOTAL	REMAIN	REMOVE	RELOCATE
TREES	7	1	6	0
PALMS	12	2	10	0



LANDSCAPE PLAN LEGEND

- (A) NATIVE SEA SHORE PASPALUM LAWN - OVER 2" TOPSOIL BED, SEE PLANTING SPECS
- (B) CAST IN PLACE CONCRETE PAVERS
- (C) NATIVE SEA SHORE PASPALUM LAWNOR ARTIFICIAL LAWN JOINTS
- (D) 15' SITE TRIANGLE PER CMB STANDARDS
- (E) 3/8" GREY DECOMPOSED GRANITE AGGREGATE OVER FILTER FABRIC

LANDSCAPE PLAN
1/8" = 1'-0"



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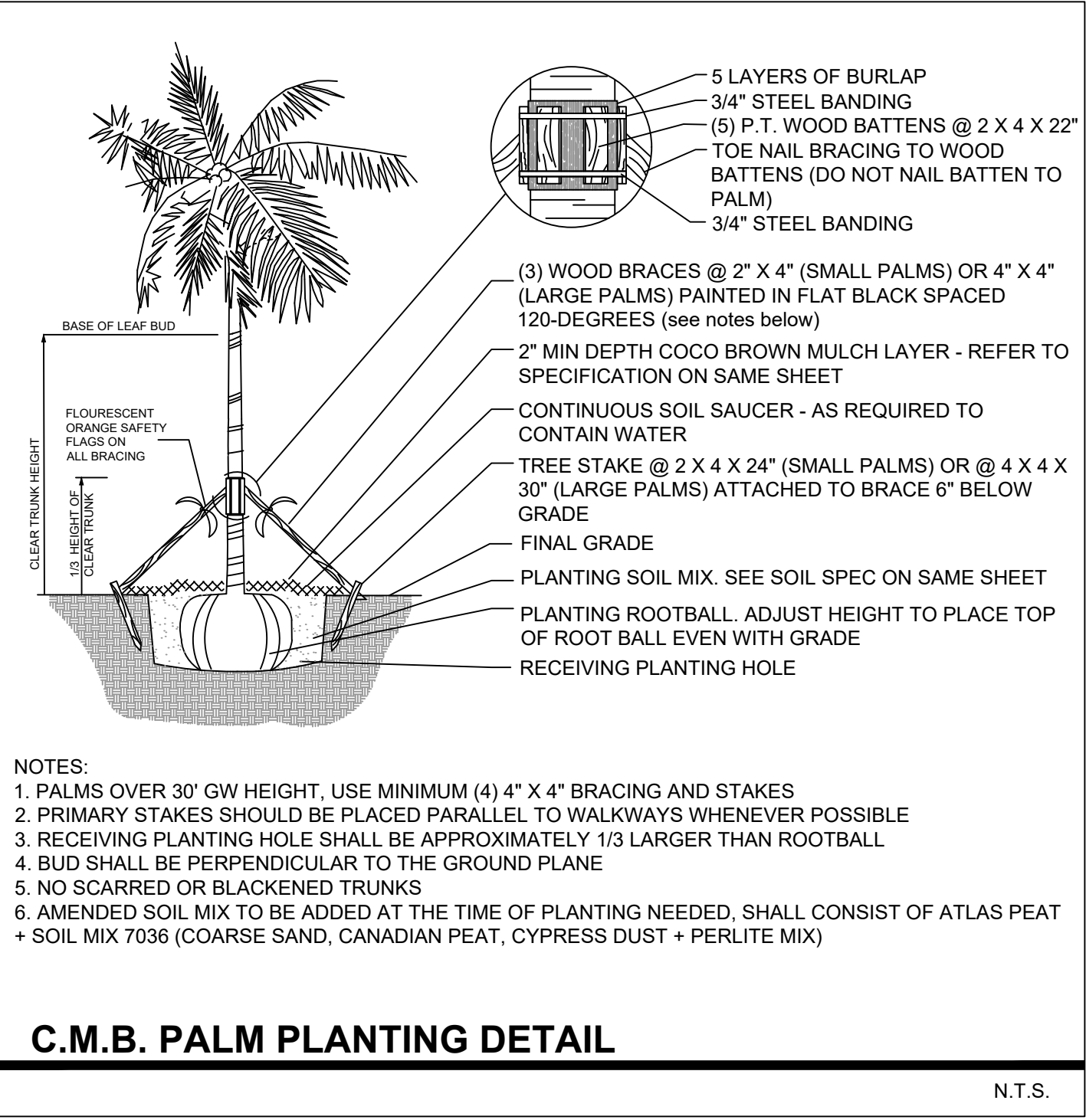
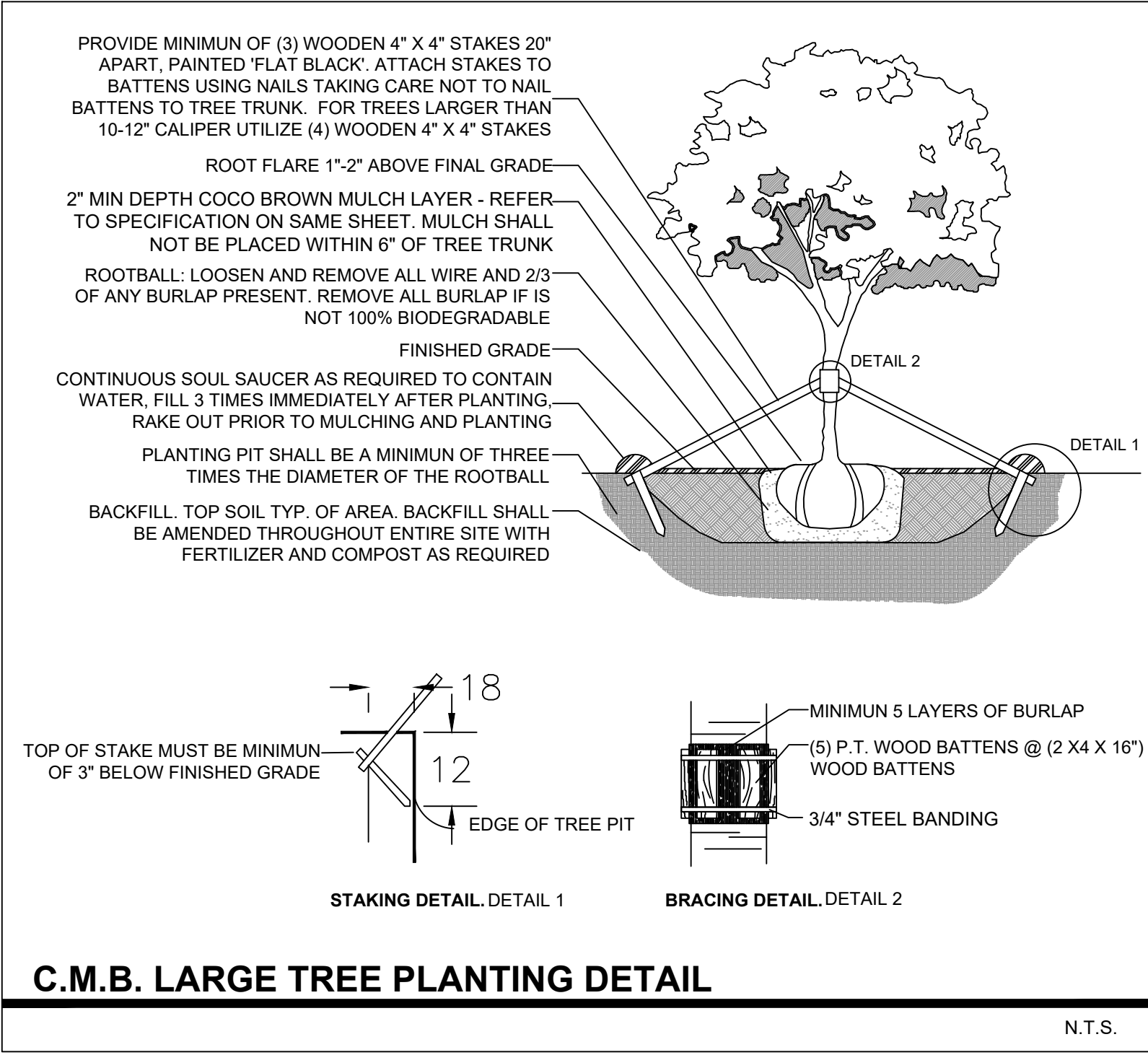
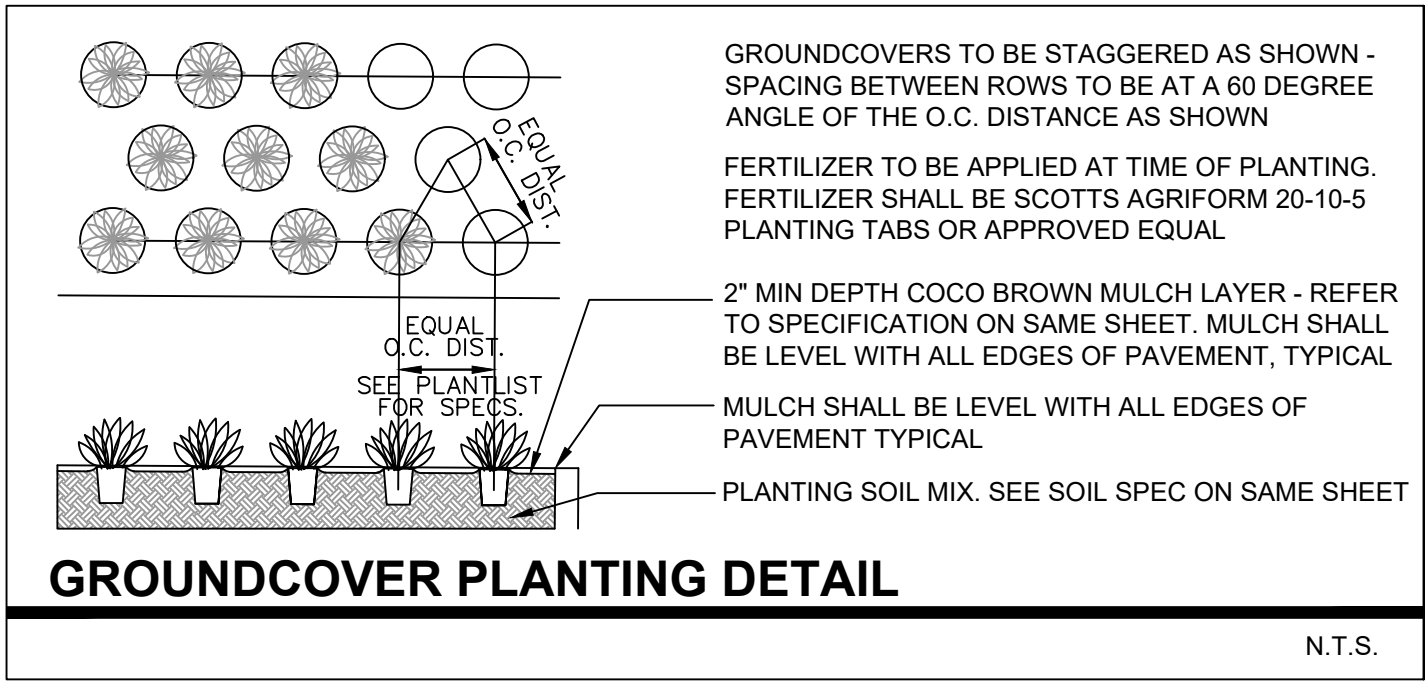
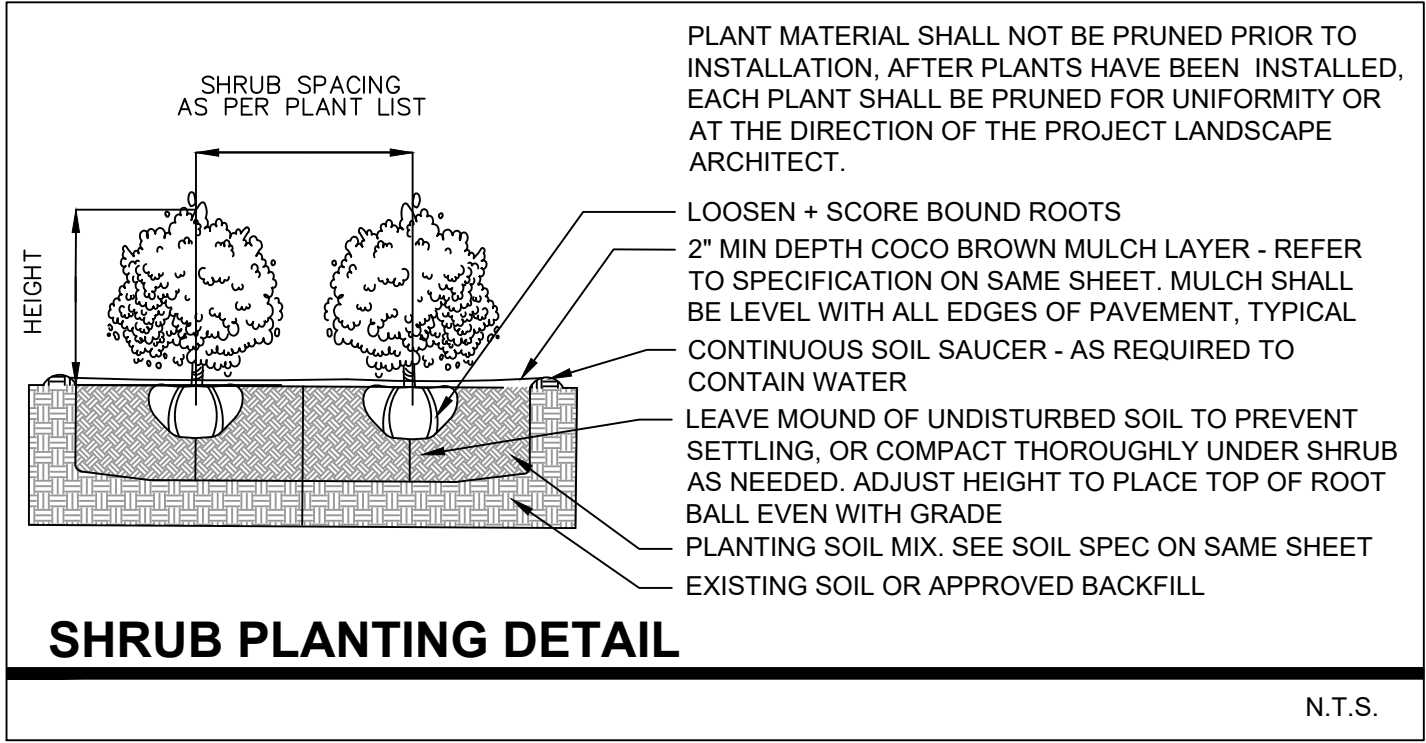
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LANDSCAPE LEGEND

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

ZONING: RS2 LOT SIZE: 9,371 SF ACRES: .21

TREES

FRONT YARD - 2 TREES REQUIRED / 2 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.

9,371 - 6,000 = 3,371 SF = 9 TOTAL TREES REQUIRED / 10 TREES PROVIDED. (5 NATIVE PITCH APPLE TREES + 4 VERAWOOD TREES + 1 NATIVE GUMBO LIMBO TREE PROVIDED)

DIVERSITY REQUIREMENT

11-15 REQUIRED TREES = 2 TREE SPECIES / 3 SPECIES PROVIDED

NATIVE TREES

30% OF REQUIRED TREES OR .30 X 9 = 3 NATIVE TREES REQUIRED / 6 NATIVE TREES PROVIDED (5 NATIVE PITCH APPLE TREES + 1 NATIVE GUMBO LIMBO TREE PROVIDED)

LOW MAINTENANCE TREES

50% OF REQUIRED TREES OR .50 X 9 = 5 LOW MAINTENANCE REQUIRED / 10 LM TREES PROVIDED (5 NATIVE PITCH APPLE TREES + 4 VERAWOOD TREES + 1 NATIVE GUMBO LIMBO TREE PROVIDED)

STREET TREE REQUIREMENT

AVERAGE STREET TREE SPACING 20' ON CENTER

N HIBISCUS DR: 100 LF / 20 = 5 STREET TREES REQUIRED / 5 STREET TREES PROVIDED (5 NATIVE WILD TAMARIND TREES PROVIDED)

E 3RD COURT: 74 LF / 20 = 4 STREET TREES REQUIRED / 4 STREET TREES PROVIDED (3 NATIVE WILD TAMARIND TREES + 1 EXISTING ROYAL POINCIANA PROVIDED)

SHRUBS

12 SHRUBS (OR VINES) REQUIRED FOR EACH REQUIRED LOT AND STREET TREE or 12 X (18) = 216 SHRUBS REQUIRED / 225 SHRUBS PROVIDED (100 NATIVE SPANISH STOPPER SHRUBS + 25 NATIVE CRABWOOD SHRUBS + 100 NATIVE DWARF BAHAMA COFFEE SHRUBS PROVIDED)

NATIVE SHRUBS

50% OF TOTAL SHRUBS REQUIRED MUST BE NATIVE or .50 X 216 = 108 NATIVE SHRUBS REQUIRED / 225 NATIVE SHRUBS PROVIDED (100 NATIVE SPANISH STOPPER SHRUBS + 25 NATIVE CRABWOOD SHRUBS + 100 NATIVE DWARF BAHAMA COFFEE SHRUBS PROVIDED)

LARGE SHRUBS / SMALL TREES

10% OF TOTAL SHRUBS REQUIRED MUST BE LARGE SHRUBS OR SMALL TREES or .10 X 204 = 22 LARGE SHRUBS REQUIRED / 125 LARGE SHRUBS / SMALL TREES PROVIDED (100 NATIVE SPANISH STOPPER SHRUBS + 25 NATIVE CRABWOOD SHRUBS PROVIDED)

NATIVE LARGE SHRUBS / SMALL TREES

50% OF TOTAL LARGE SHRUBS REQUIRED MUST BE NATIVE or .50 X 22 = 11 NATIVE LARGE SHRUBS REQUIRED / 125 NATIVE LARGE SHRUBS PROVIDED (100 NATIVE SPANISH STOPPER SHRUBS + 25 NATIVE CRABWOOD SHRUBS PROVIDED)

LAWN AREA

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

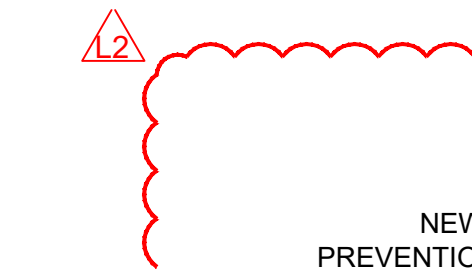
IRRIGATION SYSTEM

100% COVERAGE PROVIDED PURSUANT TO CMB REQUIREMENTS SET IN CHAPTER 126

PLANT LIST - 110 N HIBISCUS

KEY	QTY.	NATIVE	COMMON NAME	BOTANICAL NAME	HEIGHT, SPECIFICATION, & NOTES
TREES					
BA	4	NO	VERAWOOD TREE	Bulnesia arborea	16' ht min, 8' spread min, 4" dbh, 6' clear trunk
BS	1	YES	GUMBO LIMBO TREE	Bursera simaruba	18' ht min, 8' spread min, 6" dbh, 6' clear trunk.
CR	5	NO	PITCH APPLE TREE	Clusia rosea	16' ht min, 6' spread min, 4" dbh, standard trunk, equal to Treeworld Wholesale
LL	8	YES	WILD TAMARIND	Lysiloma latisiliquum	16' ht min, 8' spread min, 4" dbh, 6' clear trunk.
PALMS					
CN	5	NO	COCONUT PALM	Cocos nucifera 'Maypan'	8' gray wood, leaning, Florida Fancy
PE	3	NO	ALEXANDER PALMS	Ptychosperma elegans	12'-13' ht clear trunk, 7-8' gray wood, multi #2 thin trunk
RM	4	NO	TRAVELERS PALM	Ravenala madagascariensis	25 gallon, 10-12' height, single
RX	13	NO	LADY PALMS	Thrinax radiata	7 gallon, 3'- 4' height, full
SHRUBS					
EUF	100	YES	SPANISH STOPPER SHRUB	Chrysobaianus icaco	15 gallon, 5' height, 2' spread, 30" on center
GYL	25	YES	CRABWOOD SHRUB	Psychotria ligustrifolia	15 gallon, 5' height, 2' spread
PSL	100	YES	DWARF BAHAMA COFEE	Psychotria ligustrifolia	7 gallon, 3' height
GROUNDCOVERS					
ALP	6	NO	RED GINGER	Alpinia purpurata	7 gallon, 18" on center, full
CAM	65	NO	CARISSA 'EMERALD BLANKET'	Carissa macrocarpa	3 gallon, 12" on center, full
DIS	2	NO	DIOON	Dioon spp.	7 gallon, 3' height x 3' spread
LIR	550	NO	LILYTURF	Liriope muscari	1 gallon, 12" on center, full
MIC	160	NO	WART FERN	Microsorium scolopendrium	1 gallon, 12" on center, full
MOD	95	NO	SWISS CHEESE PLANT	Monstera deliciosa	3 gallon, 24" on center, full
PRC	20	NO	PHILODENDRON 'ROJO CONGO'	Same	3 gallon, 18" on center, full
XAN	118	NO	PHILODENDRON 'XANADU'	Same	1 gallon, 12" spread, full
SOD, AGGREGATE & MULCH					
MLC	AMERIGROW 'PREMIUM PINEBARK BROWN' SHREDDED MULCH				
SOD	NATIVE SEA SHORE PASPALUM LAWN - OVER 2" TOPSOIL BED, SEE PLANTING SPECS				
TURF	ARTIFICIAL TURF				
DGA	3/8" DECOMPOSED GRANITE AGGREGATE OR STONE TO BE SELECTED, INSTALLED OVER FILTER FABRIC AND WEED BARRIER MATERIAL / OLIMAR, 2" MIN. DEPTH				

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 \$15,000 DOLLARS FOR POTTED PLANTS + MISCELLANEOUS VEGETATION TO BE SELECTED DURING THE INSTALLATION OF THE PROJECT



NEW 1" SUB METER & 1" RPZ BACKFLOW PREVENTION DEVICE FOR IRRIGATION SYSTEM. REFER TO CIVIL ENGINEER'S PLANS. PROVIDE MASTER GATE VALVE AFTER RPZ AND CONNECT TO IRRIGATION CONTROLLER

RAINBIRD BUBBLER - 1.5 GPM

15' RADIUS HALF - 2 GPM

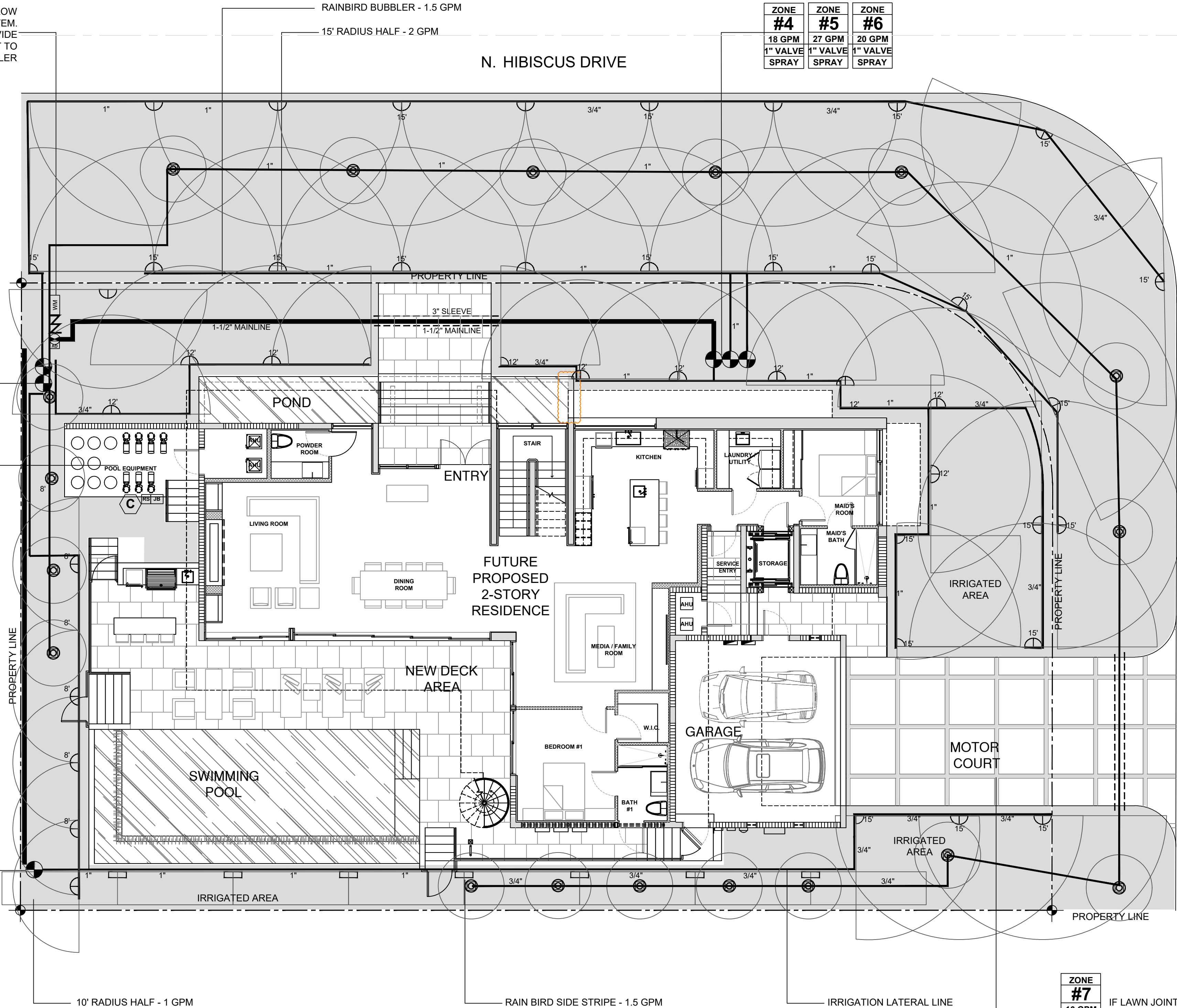
N. HIBISCUS DRIVE

ZONE	TREE	ROW
ZONE	ZONE	ZONE
#4	#5	#6
18 GPM	27 GPM	20 GPM
1" VALVE	1" VALVE	1" VALVE
SPRAY	SPRAY	SPRAY

ZONE	ZONE
#2	#1
7 GPM	22 GPM
1" VALVE	1" VALVE
SPRAY	SPRAY

RAIN BIRD ESP-LX MODULAR IRRIGATION TIMER AND RAIN BIRD RAIN SENSOR ATTACHED TO CONTROLLER SEE IRRIGATION LEGEND

ZONE
#3
17 GPM
1" VALVE
SPRAY



East 3rd COURT

ZONE
#7
16 GPM
1" VALVE
DRIP

IF LAWN JOINTS ARE ZOYSIA 'EMPIRE' LAWN PROVIDE AN ADDITIONAL ZONE FOR DRIP IRRIGATION



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

IRRIGATION LEGEND

WM	1" IRRIGATION SUB METER REFER TO CIVIL ENGINEER'S PLANS	1" ELECTRIC VALVES-RAINBIRD PEB SERIES OR APPROVED EQUAL, IN 10" ROUND VALVE BOX
Z	RPZ (REDUCED PRESSURE ZONE) REFER TO CIVIL ENGINEER'S PLANS	JB JUNCTION BOX w/ WATER PROOF CONNECTORS REFER TO ELECTRICAL ENGINEER'S PLANS
GV	1" MASTER VALVE FOR TOTAL SYSTEM SHUT OFF. CONNECT TO CONTROLLER	1 1/2" PVC Main Supply Line - Sch 40
C	RAINBIRD ESP-LX MODULAR SERIES CONTROLLER W/ RAINBIRD RAIN SENSOR	PVC LATERAL LINE (Sch. 160)
RS	RAINBIRD RSD SERIES RAIN SENSOR ATTACHED TO CONTROLLER	PIPE in SLEEVE (See Sizing Chart)
		PIPE CONNECTION
		PIPE CROSSING

ZONE
#1
25 GPM
1" VALVE
SPRAY

ZONE DESIGNATION & INFORMATION

GALLONS PER MINUTE
VALVE SIZE
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

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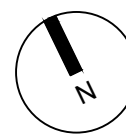
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L-6

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



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