

DATE SCALE HANDEWS AVENUE, FORT LANDERDALE, FL. 33309-2132 (954)776-1616

SCALE 1"=20'
FIELD BOOK N/A

DRAWN BY JV

CHECKED BY RKK

TRACT "B", TRACT "C", TRACT "D", TRACT "G" AND TRACT "H",

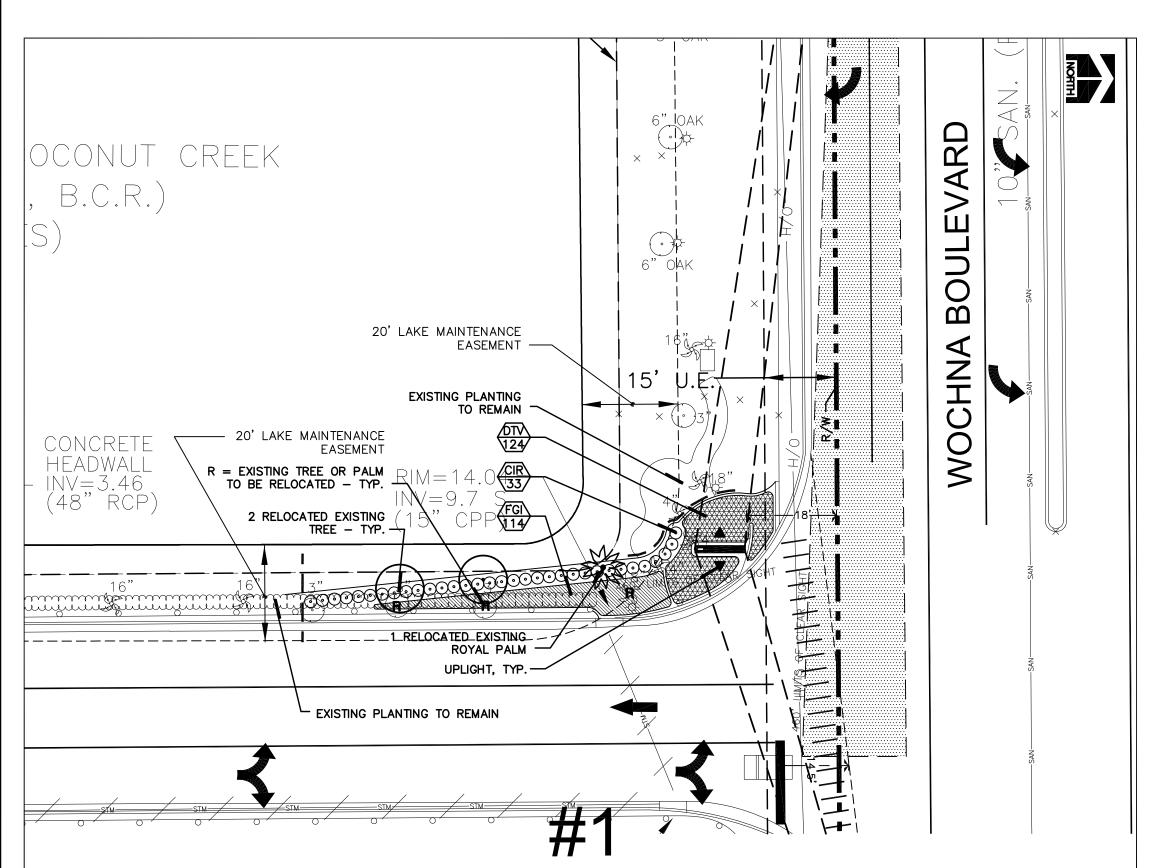
COMMERCE CENTER OF COCONUT CREEK, P.B. 131, PG. 30, B.C.R., FL

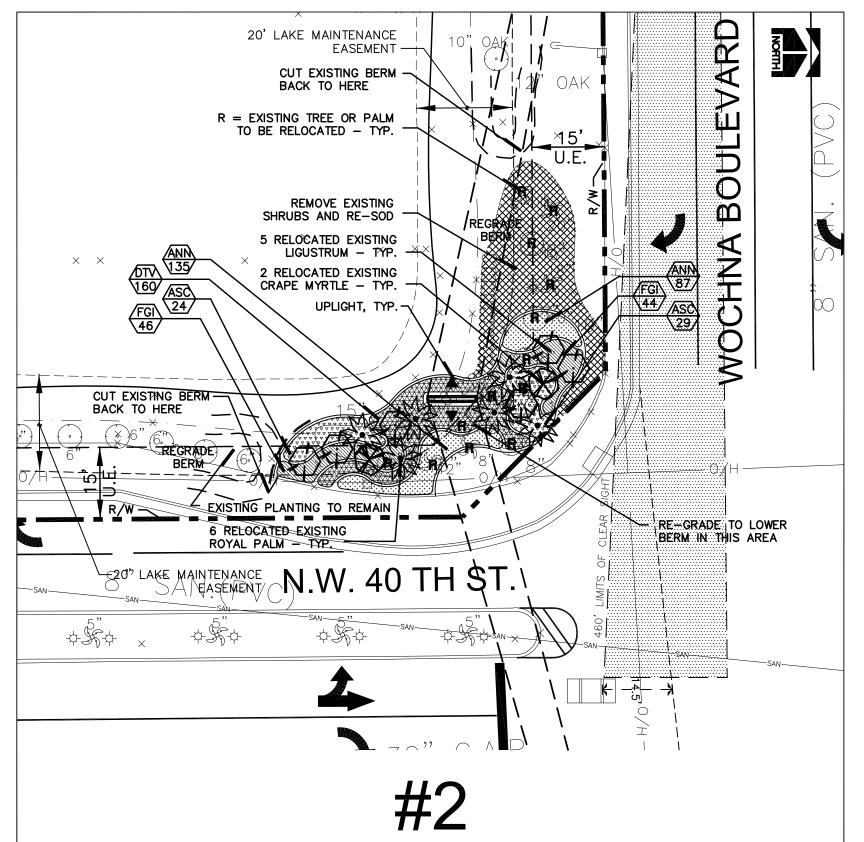
TOGETHER WITH: TRACT 65 AND A PORTION OF TRACT 66, BLOCK 8
"PALM BEACH FARMS COMPANY PLAT No. 3", P.B. 2, PGS. 45—54, P.B.C.R.

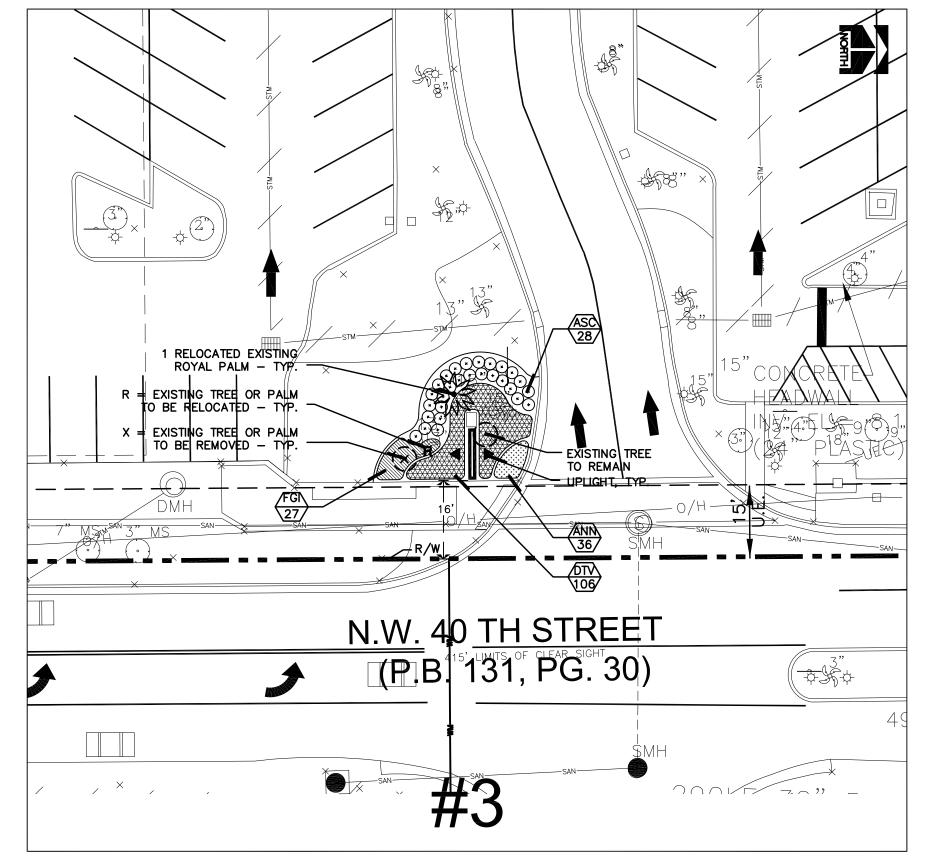
SHEET NO. 1

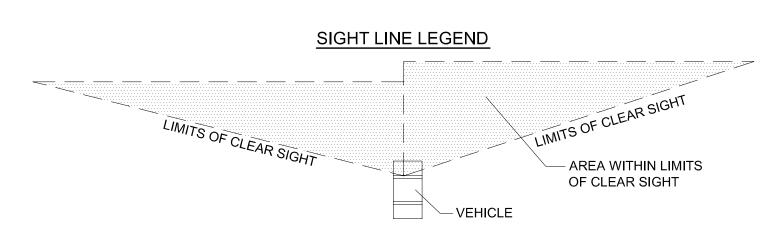
OF 1 SHEETS

PROJECT NO. 17094C









# SIGHT LINE DATA (ALONG 40TH ST)

SIGHT LINE DATA BASED ON: FDOT STANDARD INDEX 546 2 LANE 2 WAY FLARED DESIGN SPEED: 35MPH

SIGHT DISTANCE REQUIRED: 415'

#### SIGHT LINE DATA (ALONG 54TH ST/WOCHNA BLVD)

SIGHT LINE DATA BASED ON: FDOT STANDARD INDEX 546 4 LANE DIVIDED (MEDIAN LESS THAN 22') DESIGN SPEED: 35MPH

SIGHT DISTANCE REQUIRED: 460'

# 1. EXISTING WOOD SIGNS SHALL BE REMOVED.

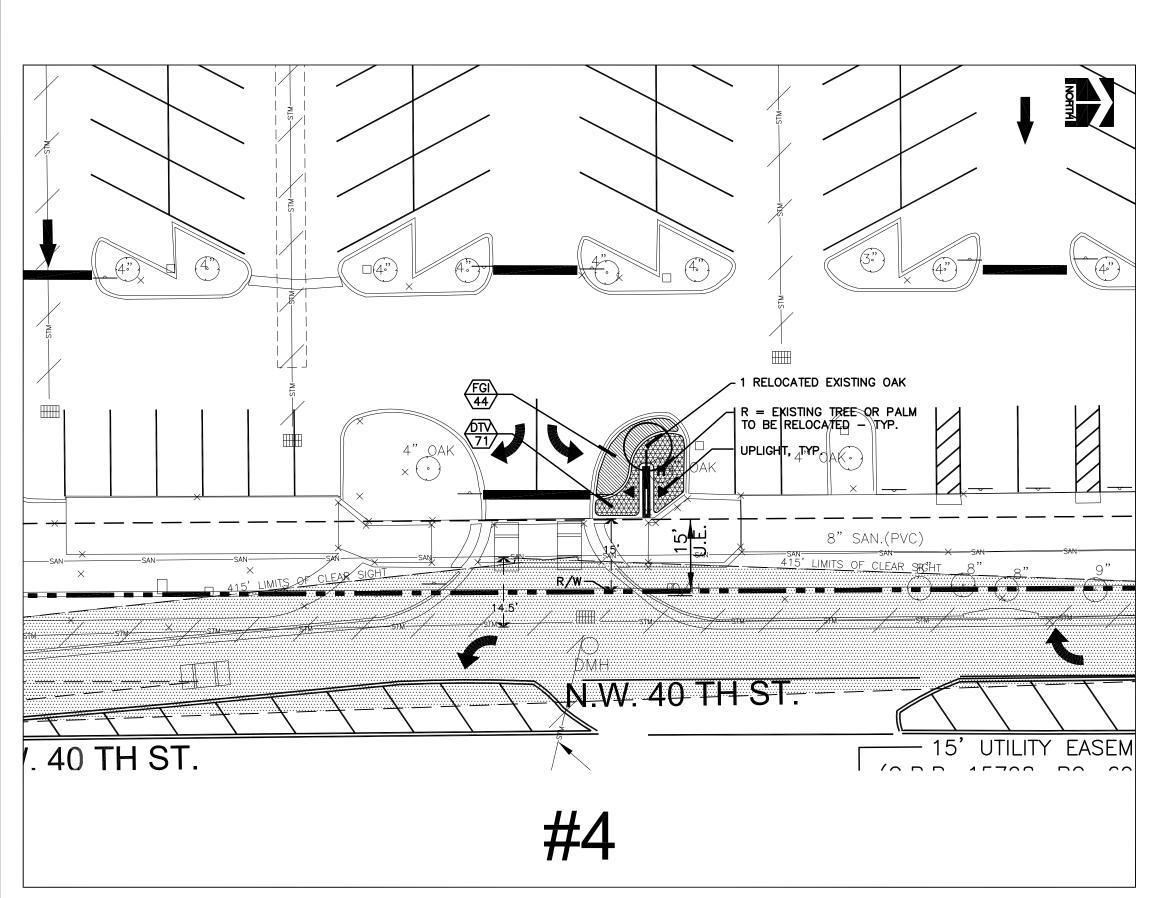
2. REMOVE ALL EXISTING SHRUBS IN AREAS INDICATED BY NEW SHRUB BEDS, HEDGES, OR SIGN INSTALLATION LOCATIONS.

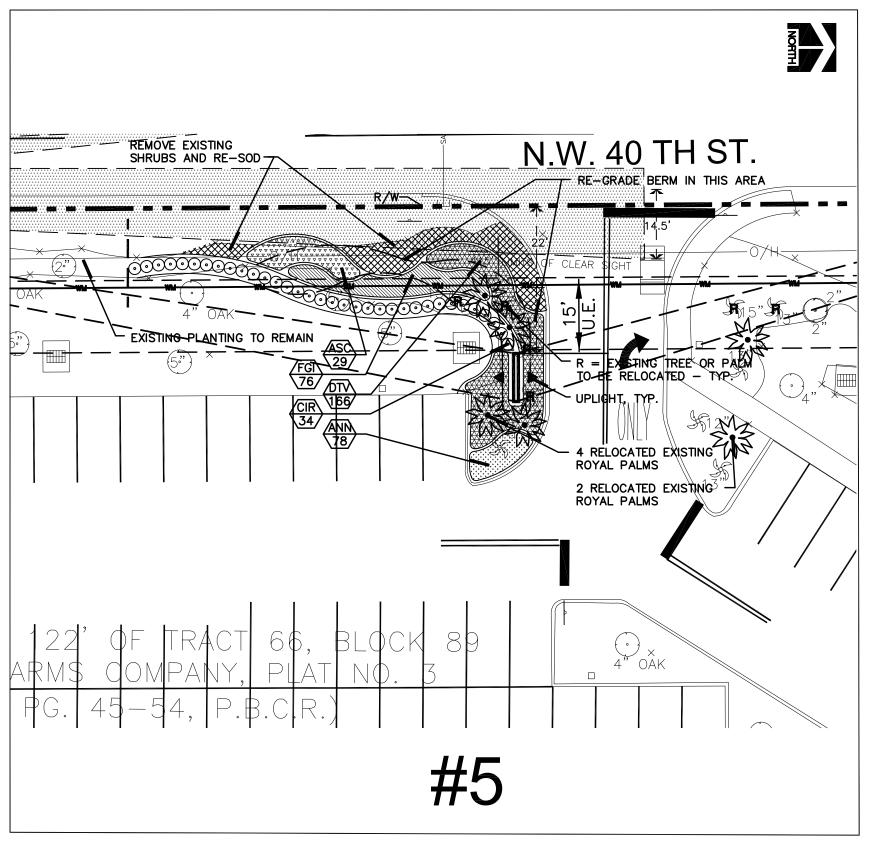
3. REPLACE ALL SOD DAMAGED DURING TREE AND PALM RELOCATION AND SIGN INSTALLATION —— EXCEPT IN THOSE AREAS COVERED BY NEW SHRUB BEDS OR HEDGES.

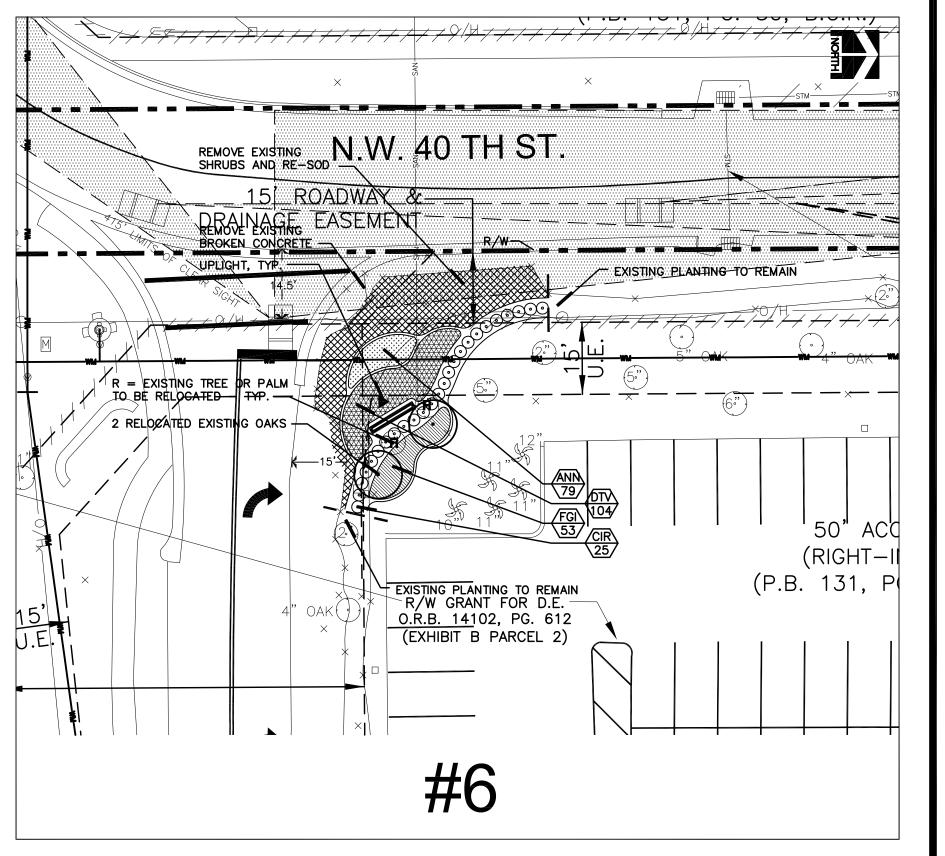
4. FILL VOIDS LEFT AFTER TREE AND PALM RELOCATION WITH SOIL MIX AND RE-SOD THOSE AREAS NOT COVERED BY NEW SHRUB BEDS OR HEDGES.

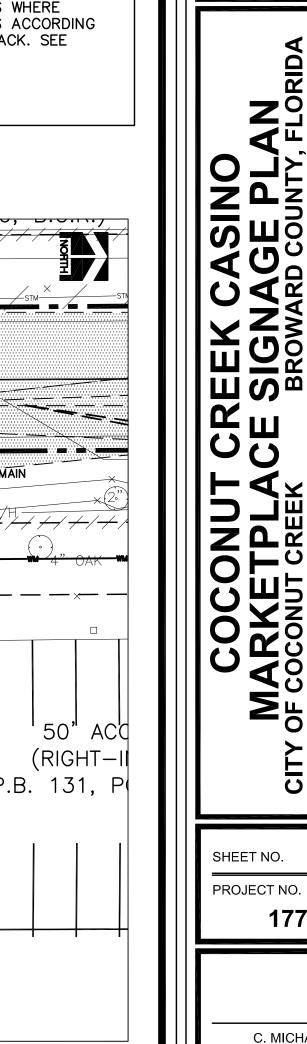
5. ADJUST IRRIGATION HEADS FOR FULL HEAD TO HEAD COVERAGE OF NEWLY PLANTED AREAS. PLACE HEADS SO THAT WATER DOES NOT HIT SIGNS. ADD ADDITIONAL HEADS IF NECESSARY.

6. SPRAY HEADS SHALL BE ATTACHED TO RISERS WHERE NECESSARY — ADJUST HEIGHTS OF SPRAY HEADS ACCORDING TO PLANT HEIGHT. RISERS SHALL BE PAINTED BLACK. SEE DETAIL SHEETS FOR NOTES AND DETAILS.









REVISED PER CITY COMMENTS

NOVEMBER 9, 2009

L-1

17796.25

C. MICHAEL OLIVER FLORIDA REG. NO. 0000354 (FOR THE FIRM)

1" = 20'

DESIGNED BY

DRAWN BY

#### PLANTING NOTES

1) THE SCOPE OF WORK IS SHOWN IN THIS PLAN SET, AS AMENDED BY CONTRACT DOCUMENTS. THE LANDSCAPE CONTRACTOR (HEREAFTER CALLED CONTRACTOR) SHALL VERIFY ALL CONDITIONS IN THIS PLAN SET PRIOR TO BIDDING. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING AND PROPOSED SITE CONDITIONS, AND OTHER CHALLENGES OF THIS PROJECT PRIOR TO BIDDING UNDER THIS CONTRACT. ANY COSTS OR REQUIREMENTS NECESSARY FOR FINAL ACCEPTANCE SHALL BE CONSIDERED INCIDENTAL TO THE WORK BEING PERFORMED.

2) THE CONTRACTOR SHALL BE PROPERLY REGISTERED WITH THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY. SUBMIT CERTIFICATION TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.

3) THE CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED LANDSCAPE CONTRACTOR BY THE FLORIDA NÚRSERY, GROWERS AND LANDSCAPE ASSOCIATION AND SHALL BE PRESENT ON SITE TO DIRECT ALL LANDSCAPE ACTIVITIES. SUBMIT CERTIFICATION TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT

4) INSTALLATION SCHEDULE - PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL SUBMIT A TYPEWRITTEN INSTALLATION SCHEDULE FOR EACH AREA OF THE SITE TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE AT LEAST THREE WORKING DAYS PRIOR TO COMMENCEMENT OF ANY STAGE OF WORK.

5) WATERING SCHEDULE - PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL SUBMIT A TYPEWRITTEN WATERING SCHEDULE TO THE OWNER'S REPRESENTATIVE SHOWING THE DATES THAT WATERING WILL TAKE PLACE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ANY FEES ASSOCIATED WITH WATER USE. THE APPLICATIONS OF WATER SHALL SATURATE THE SOIL TO FIELD CAPACITY AND SHALL FILL ALL WATER RINGS. WATERING SHALL BEGIN IMMEDIATELY FOLLOWING INSTALLATION. THERE SHALL BE A MINIMUM OF 58 WATERING APPLICATIONS BASED ON THE FOLLOWING SCHEDULE: FIRST MONTH EVERY DAY

SECOND MONTH EVERY OTHER DAY THIRD MONTH

 EVERY SEVEN DAYS MONTHS FOUR THROUGH THE ONE-YEAR EXTABLISHMENT PERIOD - ONCE PER MONTH THIS WATERING SCHEDULE MAY BE SUSPENDED ONLY UPON WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE.

6) LANDSCAPE ESTABLISHMENT AND MAINTENANCE SCHEDULE - PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S REPRESENTATIVE A TYPEWRITTEN ESTABLISHMENT SCHEDULE. DURING PROJECT CONSTRUCTION AND FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE, THE CONTRACTOR SHALL MAINTAIN ALL LANDSCAPE MATERIAL IN A HEALTHY AND VIGOROUS CONDITION THAT SHALL MEET OR EXCEED FLORIDA #1 STANDARDS.

MAINTENANCE ACTIVITIES SHALL INCLUDE, BUT ARE NOT LIMITED TO: RESTORING WATER RINGS, TIGHTENING GUYS AND BRACES, RESTORING MULCH TO A DEPTH OF 3", SPRAYING FOR INSECTS AND DISEASES, MOWING SOD TO KEEP LESS THAN 4", LITTER REMOVAL, WATERING, FERTILIZING, WEEDING AND PRUNING. A CERTIFIED ARBORIST, CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE SHALL OVERSEE PRUNING OPERATIONS. (SUBMIT CERTIFICATION TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK) PRUNE IN COMPLIANCE WITH ANSI A300 STANDARDS AND THESE PLANS. PLANT MATERIAL WITHIN THE LIMITS OF CLEAR SIGHT SHALL BE MAINTAINED TO PROVIDE PROPER VERTICAL AND HORIZONTAL CLEARANCE. CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE DAMAGED PLANT MATERIAL

7) ALL PLANT MATERIAL FURNISHED AND INSTALLED BY THE CONTRACTOR (UNLESS OTHERWISE SPECIFIED) SHALL BE FLORIDA NUMBER 1 OR BETTER, AS SPECIFIED IN THE MOST CURRENT GRADES AND STANDARDS FOR NURSERY PLANTS, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY, AS AMENDED. PLANTS NOT LISTED IN GRADES AND STANDARDS SHALL CONFORM TO THE STANDARDS SPECIFIED FOR PLANTS LISTED WITH SIMILAR GROWTH HABITS.

PRIOR TO INSTALLATION OF ANY MATERIALS, ALL PLANT MATERIAL SHALL BE AVAILABLE FOR INSPECTION BY THE OWNER'S REPRESENTATIVE. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S REPRESENTATIVE A

LETTER FROM HIS SUPPLIER STATING THAT ALL MATERIALS ARE FLORIDA NUMBER 1 OR BETTER. SOD SHALL BE CLEAN AND FREE OF WEEDS, NOXIOUS PESTS AND DISEASES.

8) DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT A STATEMENT OF NON-AVAILABILITY IN WRITING WITH A PROPOSAL FOR THE USE OF EQUIVALENT MATERIAL FOR APPROVAL BY THE OWNER'S REPRESENTATIVE.

9) DELIVER PLANTING MATERIAL AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND WHILE STORED AT SITE. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, COVER OR SET IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE AND KEEP MOIST. ANY BACKFILL STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES. MATERIALS SHALL NOT BE STORED IMMEDIATELY ADJACENT TO EITHER EXISTING OR NEWLY INSTALLED VEGETATION, NOR IMMEDIATELY ADJACENT TO WETLANDS OR OTHER WATER BODIES.

# TREE AND PALM RELOCATION NOTES

1) PREPARATIONS FOR RELOCATION TO NEW LOCATION SHALL BE MADE PRIOR TO MOVING ANY TREES/PALMS.

2) TREES/ PALMS SHALL BE RELOCATED ONLY ONCE.

3) TREES/PALMS SHALL BE INSTALLED IN THEIR NEW LOCATION WITHIN 24 HOURS OF REMOVAL FROM THEIR EXISTING LOCATION OR AS HEREIN SPECIFIED.

4) ROOT PRUNING, WATERING, AND BRACING PRIOR TO TRANSPLANTING:

A. EIGHT WEEKS PRIOR TO RELOCATION PERFORM ROOT PRUNING. B. TWO DAYS PRIOR TO ROOT PRUNING, WATER THE ROOT ZONE TO FIELD CAPACITY. C. ROOT PRUNE ONLY WITH A MECHANICAL ROOT-PRUNING SAW. THE TRENCH SHALL FORM A

TREE/PALM ROOTBALL OF THE FOLLOWING SIZES:

THREE FEET DIAMETER FOR TREES/ PALMS UP TO 4 INCH CALIPER

SIX FEET DIAMETER FOR TREES / PALMS 5 TO 12 INCH CALIPER NINE FEET DIAMETER FOR TREES / PALMS OVER 12 INCH CALIPER

D. BACKFILL THE TRENCH IMMEDIATELY AFTER ROOT PRUNING E. WATER THE ROOTBALL TO FIELD CAPACITY AFTER ROOT PRUNING.

F. BRACE ALL TREES/PALMS IMMEDIATELY AFTER ROOT PRUNING.

10) LAYOUT ALL PLANT BEDS WITH FLAGS OR OTHER VISIBLE METHODS AND CONTACT THE OWNER'S REPRESENTATIVE FOR APPROVAL. AFTER APPROVAL, THE CONTRACTOR SHALL APPLY BOTH POST AND PRE EMERGENT HERBICIDE TO ALL AREAS SCHEDULED TO RECEIVE PLANTS, MULCH OR SOD. APPLY A COLORED POST-EMERGENT HERBICIDE PER MANUFACTURERS INSTRUCTIONS FOLLOWED BY AN APPLICATION OF COLORED PRE-EMERGENT HERBICIE PER MANUFACTURERS INSTRUCTIONS.

11) SOIL BACKFILL FOR THE INSTALLATION OF TREES, PALMS, SHRUBS AND GROUND COVERS SHALL BE A UNIFORM MIX OF 25% DECOMPOSED COMPOST AND 75% EXISTING SITE SOIL, CLEANED FREE OF ROCKS AND WEEDS. CONTRACTOR SHALL SUBMIT MANUFACTURERS CERTIFIED ANALYSIS FOR SOIL AMENDMENTS TO THE OWNER'S REPRESENTATIVE AT THE PRE-CONSTRUCTION MEETIONG. THE CONTRACTOR SHALL PAY TO HAVE THE BACKFILL LAB TESTED IF REQUESTED BY THE OWNER'S REPRESENTATIVE. NON-SOLUBLE WETTING AGENT SHALL BE ADDED TO THE BACKFILL PER THE

12) INSTALL ALL PLANT MATERIAL SO THAT THE TOP OF THE ROOTBALL REMAINS EVEN WITH THE FINISH GRADE. PLACE NO SOIL ON TOP OF THE ROOTBALL. ALL PLANT MATEIAL SHALL BE WATERED IN AT THE TIME OF INSTALLATION TO ELIMINATE ANY AIR POCKETS. TREES AND PALMS SHALL BE GUYED OR BRACED AT THE TIME OF PLANTING PER DETAILS. DO NOT GIRDLE TRUNKS. THE CONTRACTOR SHALL REMOVE GUYS AND BRACES AFTER 12 MONTHS. THE CONTRACTOR SHALL IMMEDIATELY RESET PLANT MATERIAL THAT FALLS OVER.

ENTIRE MEDIAN PLANTING AREAS SHALL BE EXCAVATED TO A DEPTH OF 24" FROM TOP OF CURB.

PLANT LOCATIONS MAY BE FIELD ADJUSTED TO MEET SITE CONDITIONS. IF THIS IS IN EXCESS OF THREE FEET, NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL

TREES, PALMS, SHRUBS, AND GROUND COVER SHALL BE PLACED A MINIMUM OF 6' FROM ANY FIRE PROTECTION EQUIPMENT. ALL TREES AND PALMS SHALL BE LOCATED A MINIMUM OF 15' FROM LIGHT POLES (EXCLUDING PARKING ISLANDS). FACE OF TREES AND PALMS TO BE LOCATED A MINIMUM OF 2' OFF ALL SIDEWALKS AND 5' OFF ALL GUARDRAILS. NO LANDSCAPING ADDED UNDER THIS PROJECT SHALL BE PLACED WHERE IT WILL OBSCURE MOTORIST'S VIEW OF ANY EXISTING OR PROPOSED SIGNS.

13)MULCH SHALL BE CLEAN GRADE "A" WEED-FREE, CHIPPED EUCALYPTUS OR MELALEUCA MULCH. COVER ALL PLANTING AREAS WITH A 3" LAYER OF MULCH, PULLED BACK OFF THE TRUNKS. WHERE PLANTING AREAS INCLUDE A CATCH BASIN, DELETE MULCH WITHIN 10' OF THE INLET AND REPLACE WITH EROSION CONTROL MATTING, ANCHORED IN PLACE. SLIT FABRIC TO INSTALL SHRUBS AS

14) UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL PERVIOUS AREAS WITHIN THE PROJECT LIMITS NOT COVERED WITH PLANT MATERIAL OR MULCH SHALL BE SODDED WITH STENOTAPHRUM SECUNDATUM (ST. AUGUSTINE 'FLORITAM'). SOD INSTALLATION SHALL INCLUDE REMOVAL OF EXISTING SOD. SOD DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL SOD SHALL HAVE MINIMUM 1" LAYER OF TOP SOIL COVERING ROOTS. DO NOT TURN OVER EXISTING SOD OR WEEDS INTO SOIL BEING PREPARED FOR SOD. PRIOR TO SODDING, APPLY PRE-EMERGENT HERBICIDE PER MANUFACTURERS SPECIFICATIONS. RESTORE SOD AREAS DISTURBED BY WORK. STAKE SOD OR OTHERWISE ENSURE ITS ESTABLISHMENT ON SLOPES. WHERE SOD MEETS A MULCHED PLANTING BED THE CUT EDGE SHALL BE EVEN AND SHARP. SOD LEVEL SHALL NOT IMPEDE WATER FLOW FROM ADJACENT SURFACES. SOD ADJACENT TO MULCHED PLANTING BEDS SHALL BE A MINIMUM OF 3' WIDE.

15) FERTILIZER SHALL BE APPLIED UPON PLANT INSTALLATION AND PRIOR TO MULCHING. COORDINATE FERTILIZING WITH WATERING SO THAT FERTILIZER IS THOROUGHLY WATERED IN IMMEDIATELY FOLLOWING ITS APPLICATION. USE ONLY SLOW RELEASE ORGANIC FERTILIZER CONTRACTOR SHALL SUBMIT MANUFACTURERS CERTIFIED FERTILIZER ANALYSIS TO THE OWNER'S REPRESENTATIVE AT THE PRE-CONSTRUCTION MEETIONG. APPLICATION RATES SHALL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF NEWLY PLANTED MATERIAL. FOR TREES, SHRUBS AND GROUNDCOVERS USE A 4:1:2 RATIO

FOR PALMS, USE A 3:1:5 RATIO FOR SOD, USE A 15:1:3 RATIO

16) THE CONTRACTOR SHALL GUARANTEE IN WRITING ALL PLANT MATERIAL FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE. DURING THE ONE-YEAR GUARANTEE PERIOD, ANY PLANT MATERIAL THAT FALLS BELOW FLORIDA #1 STANDARDS SHALL BE IMMEDIATELY REPLACED WITH THE SAME PLANT TYPE AT LEAST EQUAL TO THE SIZE AND GRADE ORIGINALLY SPECIFIED. THE REPLACEMENT MATERIAL SHALL ALSO BE GUARANTEED FOR ONE YEAR FROM THE DATE OF ITS INSTALLATION.

17) THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 2 WEEKS PRIOR TO FINAL INSPECTION FOR PURPOSES OF ATTENDING INSPECTION. FINAL ACCEPTANCE WILL NOT BE GIVEN

BY THE OWNER'S REPRESENTATIVE UNTIL: COMPLETE INSTALLATION PER PLAN SET

B) SITE CLEAN UP AND RESTORATION

C) SUBMISSION OF WRITTEN GUARANTEE D) COMPLETION OF PUNCH LIST ITEMS

E) FINAL WALK THROUGH BY THE OWNER'S REPRESENTATIVE

# 5) TRANSPLANTING:

A. THE CONTRACTOR SHALL IMMEDIATELY BACKFILL HOLES WHERE A TREE/PALM WAS REMOVED WITH EXISTING SITE SOIL AND ADDITIONAL CLEAN SAND TO FILL HOLE FLUSH WITH SURROUNDING GRADE. B. TREES/PALMS BEING MOVED WITHOUT A TREE SPADE SHALL BE BALLED AND BURLAPPED. C. THE CONTRACTOR SHALL TIE UP FRONDS PRIOR TO TRANSPORT AND REMOVE TIES IMMEDIATELY AFTER INSTALLATION.

D. REMOVE AND DISPOSE OF STAKES AND BATTENS AFTER ONE YEAR.

E. SET TREES/PALMS SO THE TOP OF ROOTBALL WHEN SETTLED IS AT GRADE. . WATER IN BACKFILL DURING INSTALLATION AND ELIMINATE ANY AIR POCKETS

G. INSTALL FERTILIZER TABLETS UPON INSTALLATION H. INSTALL NON-SOLUBLE WETTING AGENT TO THE BACKFILL UPON INSTALLATION I. BRACING OF TREES/PALMS OVER 30' SHALL BE PER DETAIL

# CITY OF COCONUT CREEK STANDARD LANDSCAPE NOTES

1) ALL LANDSCAPE AND SPECIFICATIONS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS PROVIDED IN THE CITY OF COCONUT CREEK LAND DEVELOPMENT CODE. PLANS ARE INCOMPLETE WITHOUT WRITTEN NOTES AND SPECIFICATIONS.

2) ALL PLANTING MATERIAL SHALL MEET OR EXCEED FLORIDA GRADE #1 AS SPECIFIED IN GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION. TREES SHALL NOT BE TIPPED, TOPPED, OR SHAPED

3) LANDSCAPE SHALL BE PLACED TO EDGE OF ABUTTING STREETS, CANALS, LAKES OR OTHER LANDS.

4) ALL MECHANICAL EQUIPMENT, AIR CONDITIONING, IRRIGATION PUMP STATIONS AND EQUIPMENT, FPL TRANSFORMERS, POOL PUMPS, ETC., MUST BE SCREENED ON THREE (3) SIDES BY LANDSCAPE SHRUBS. NOTE: THE QUANTITY OF SCREENING SHRUBS IS IN ADDITION TO THE REQUIRED NUMBER OF SHRUBS AS PROVIDED IN THE CODE CALCULATION TABLE. ALL SCREENING SHRUBS SHALL BE PLANTED FOR PROPER OPERATION OF EQUIPMENT BEING SCREENED AND/OR PER THE REQUIREMENTS OF THE UTILITY AS NECESSARY. ALL HEDGE MATERIAL REQUIRED FOR SCREENING PURPOSES SHALL BE PLANTED WITH BRANCHES TOUCHING. ADJUST ON-CENTER SPACING AS NECESSARY AND/OR PROVIDE ADDITIONAL PLANTS TO PROVIDE AN ADEQUATE SCREEN.

5) SIGHT DISTANCE CONCERNS MUST BE MAINTAINED FOR CLEAR SIGHT VISIBILITY FROM THIRTY (30) INCHES TO SEVENTY-TWO INCHES, TREE TRUNKS EXCLUDED. MEASUREMENT SHALL BE MADE FROM TOP OF ROOT BALL PLANTED AT PROPER ELEVATION.

6) GUYING/STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES, ETC., TO PENETRATE OUTER SURFACES OF TREES, PALMS OR OTHER PLANT MATERIAL. TREES, PALMS AND PLANT MATERIAL REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED WITH THE INSPECTOR ON SITE.

7) BURLAP MATERIAL, WIRE CAGES, PLASTIC/CANVAS STRAPS, ETC., MUST BE CUT AND REMOVED FOR THE TOP ONE-HALF (1/2) DEPTH OF THE ROOT BALL. TREES AND SHRUBS GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE SUCH MATERIAL REMOVED ENTIRELY PRIOR TO PLANTING THE TREE OR SHRUB.

8) ALL PLANT MATERIAL SHALL BE FREE OF PESTS, INSECTS, DISEASE, WEEDS, ETC.

9)ALL REQUIRED LANDSCAPE MATERIAL SHALL BE INSTALLED USING A PLANTING SOIL MIX COMPRISED OF A TYPE APPROPRIATE TO THE INDIVIDUAL PROPOSED PLANT MATERIAL AND THE NATIVE SOIL FOUND ON THE SITE.

10) ALL PLANT MATERIAL SHALL BE PLANTED AT THE PROPER DEPTH, AS ORIGINALLY GROWN AND/OR SÓ THE TOP OF THE ROOT BALL IS FLUSH OR SLIGHTLY ABOVE FINISHED GRADE IMMEDIATELY AFTÉR PLANTING. ALL TREES SHOULD PROVIDE TRUNK TAPER WHEN PROPERLY PLANTED AT THE CORRECT

11) ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING TO ELIMINATE AIR POCKETS IN THE ROOT ZONE AREA.

12) COLOR-TREATED OR DYED MULCH WILL NOT BE ACCEPTED.

13) UPON COMPLETION OF WORK, THE SITE SHALL BE CLEARED OF ALL DEBRIS, SUPERFLUOUS MATERIALS, AND EQUIPMENT TO THE SATISFACTION OF THE INSPECTOR.

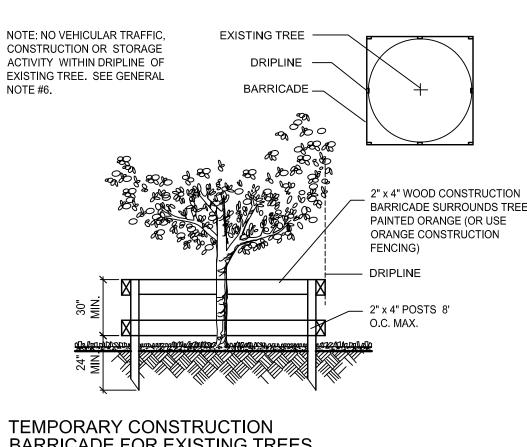
14) REFER TO COCONUT CREEK FIRE EQUIPMENT CLEAR ZONE DIAGRAM TO MAINTAIN A SAFE ZONE FRONTING FIRE HYDRANTS.

15) DO NOT PLANT TREES, SHRUBS OR GROUNDCOVER WITHIN ELECTRIC METER CLEAR ZONE. PROVIDE A SAFE ZONE AS DESCRIBED BY THE ELECTRICAL INSPECTOR.

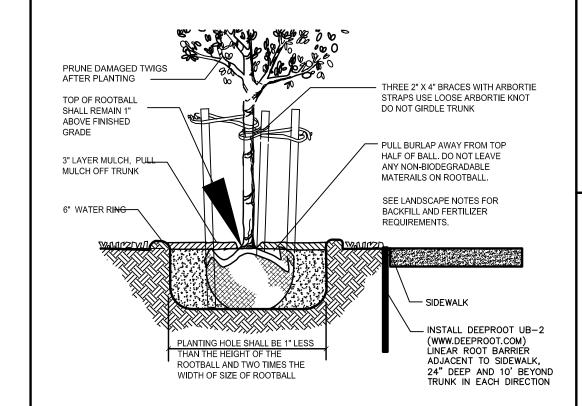
16) ALL LANDSCAPED AREAS HAVE AN EXISTING UNDERGROUND FULLY AUTOMATIC IRRIGATION SYSTEM USING POP-UP SPRINKLERS. SYSTEM PROVIDES 100% COVERAGE WITH A 50% OVERLAP (MINIMUM) USING RUST FREE WATER, EXCEPT PRESERVED AREAS REMAINING IN NATURAL STATE. A RAIN SENSOR DEVICE OR SWITCH IS INSTALLED THAT WILL OVERRIDE THE IRRIGATION SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED. WATER SHALL NOT BE DIRECTED AND/OR PROVIDED ONTO IMPERVIOUS SURFACES AND OR BE DESIGNED OR INSTALLED TO THROW WATER OVER AN IMPERVIOUS SURFACE SUCH AS A SIDEWALK, ETC. HOURS OF OPERATION FOR ALL IRRIGATION SYSTEMS SHALL BE LIMITED TO 5:00 P.M. TO 8:00 A.M. ONLY OR AS MAY BE FURTHER RESTRICTED BY SOUTH FLORIDA WATER MANAGEMENT DISTRICT OR OTHER JURISDICTIONAL AGENCY.

17) IRRIGATION PERMITS, IF REQUIRED BY THE CITY OF COCONUT CREEK, SHALL BE OBTAINED AT TIME OF BUILDING PERMITS.

18) A WATER USE PERMIT FROM SFWMD EXISTS: PERMIT#06-03364-W



BARRICADE FOR EXISTING TREES



TREE PLANTING AND BRACING DETAIL

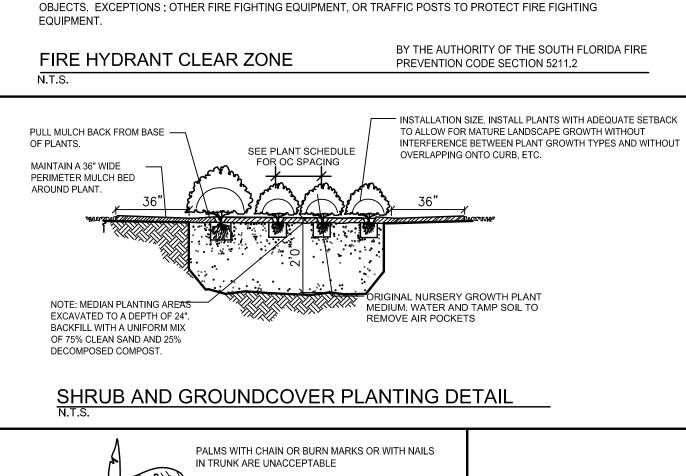
BB Balled/Burlapped

CAL Caliper (6" Above Grade)

BL Bloom

BR Bare Root





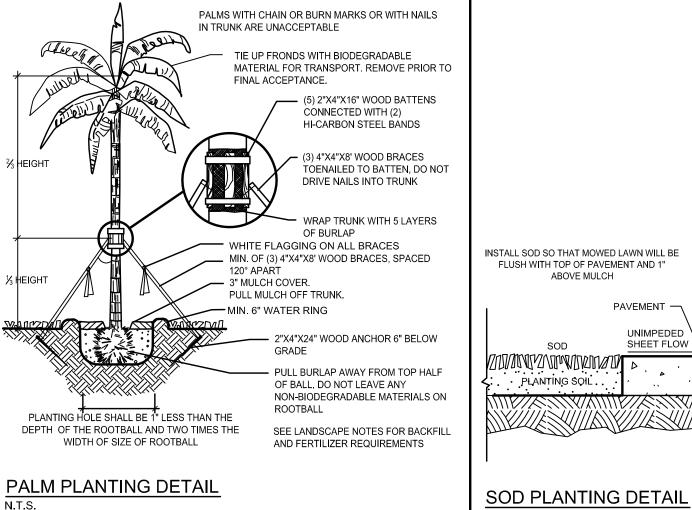
FIRE HYDRANT CLEAR ZONE

UTILIZING FIRE HOSE, ON PUBLIC OR PRIVATE PROPERTY.

**EDGE OF PAVEMENT** 

REQUIREMENTS APPLY TO THE FIRE HYDRANTS, SIAMESE CONNECTION, AND ANY OTHER FIRE EQUIPMENT FOR

THE CLEAR ZONE SHALL BE FREE OF LANDSCAPE (EXCEPT SOD), MAILBOXES, PARKING, LAMP POST AND ALL OTHER



NOTE: SIZES ARE MINIMUM

PLANT SCHEDULE

IN Inch

MAX Maximum

OA Overall Height

MIN Minimum

CT Clear Trunk FT Feet

HT Height

CW Clear Wood G Gallon

FG Field Grown GW Gray Wood

	KEY	QTY	BOTANICAL NAME/ COMMON NAME	O.C. SPACING	SPECIFICATIONS
SHRUBS/					
GROUND COVER	ANN	415	ANNUAL FLOWERS	12" OC	G - 12" HT X 12" SPR
	ASC	110	ALLAMANDA SCHOTTII/ BUSH ALLAMANDA	24" OC	3G - 18" HT X 18" SPR
	CIR	92	CHRYSOBALANUS ICACO 'RED TIP'/ RED TIP COCOPLUM	AS SHOWN	7G - 36" HT X 30" SPR
	DTV	731	DIANELLA TASMANICA 'VARIEGATA'/ VARIEGATED BLUEBERRY FLAX LILY	18" OC	3G - 18" HT X 18" SPR
	FGI	404	FICUS 'GREEN ISLAND'/ GREEN ISLAND FICUS	18" OC	3G - 14" HT X 14" SPR
	SOD	2,750 SF±	STENOTAPHRUM SECUNDATUM 'FLORATAM' / ST AUGUSTINE		PLACE SOD PIECES TIGHTLY EDGE TO EDGE WITHOUT GAPS.
ABBREVIA	TIONS				

OC On Center Spacing

SF Square Feet

SPR Spread

STD Standard

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> SHEET NO. PROJECT NO.

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REVISED PER CITY COMMENTS

11/09/2009

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DRAWN BY

1" = 20'

JRA

C

C. MICHAEL OLIVER LORIDA REG. NO. 0000354 (FOR THE FIRM)

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1) THE CONTRACTOR SHALL HAVE THE PLAN SET ON SITE AT ALL TIMES.

2) THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE HIS OPERATIONS WITH OTHER CONSTRUCTION ACTIVITIES TO AVOID PAVEMENT CUTTING OR OTHER CONFLICTS. NO PAVEMENT CUTS SHALL BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE CITY OF COCONUT CREEK. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL REMOVAL IS MUTUALLY AGREED UPON BY ALL PARTIES CONCERNED.

2) THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING INLETS FROM SOIL, DEBRIS, ETC., WITH APPROPRIATE EROSION CONTROL DEVISES AT NO ADDITIONAL COSTS.

3) DURING LANDSCAPE AND IRRIGATION WORK, CONTRACTOR SHALL KEEP PAVEMENT CLEAN AND WORK AREAS IN AN ORDERLY CONDITION. ALL TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE DAILY. CONTRACTOR SHALL PROPERLY DISPOSE OF EXCAVATED MATERIAL OFF-SITE. THE SITE SHALL BE KEPT NEAT AND ORDERLY AT ALL TIMES.

4) CONTRACTOR IS RESPONSIBLE FOR SAFETY ON SITE FOR EMPLOYEES AND THE PUBLIC.

5) THE CONTRACTOR SHALL PROTECT ALL EXISTING VEGETATION (UNLESS OTHERWISE SPECIFIED) AND ALL SITE IMPROVEMENTS WITHIN THE PROJECT LIMITS. PRIOR TO CONSTRUCTION, PLACE BARRICADES 5 FEET OUTSIDE THE DRIPLINE OF TREES/PALMS. BARRICADES SHALL REMAIN UNTIL FINAL ACCEPTANCE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF BARRICADES. NO MACHINERY SHALL OPERATE WITHIN 5' OF THE DRIPLINE OF ANY EXISTING TREE/PALM. HAND DIG ALL INSTALLATIONS WITHIN 5' OF EXISTING MATERIALS. TREES/PALMS IMMEDIATELY ADJACENT TO BUT OUTSIDE OF THE PROPERTY LINE OR R/W SHALL NOT BE IMPACTED. IF THE EXISTING LANDSCAPE MATERIAL OR SITE IMPROVEMENTS ARE IMPACTED DURING IRRIGATION INSTALLATION THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPLACEMENTS AND ALL ASPECTS OF REMEDIATION. ALL IMPACTED MATERIAL SHALL BE REPLACED WITH ITEMS OF SIMILAR SIZE AND VALUE, AND SHALL BE SATISFACTORY TO THE OWNER'S REPRESENTATIVE. THE COST OF THE REMEDIATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

6) AT THE END OF THE PROJECT, CONTRACTOR SHALL RESTORE THE STAGING AREA TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST.

#### UTILITIES NOTES

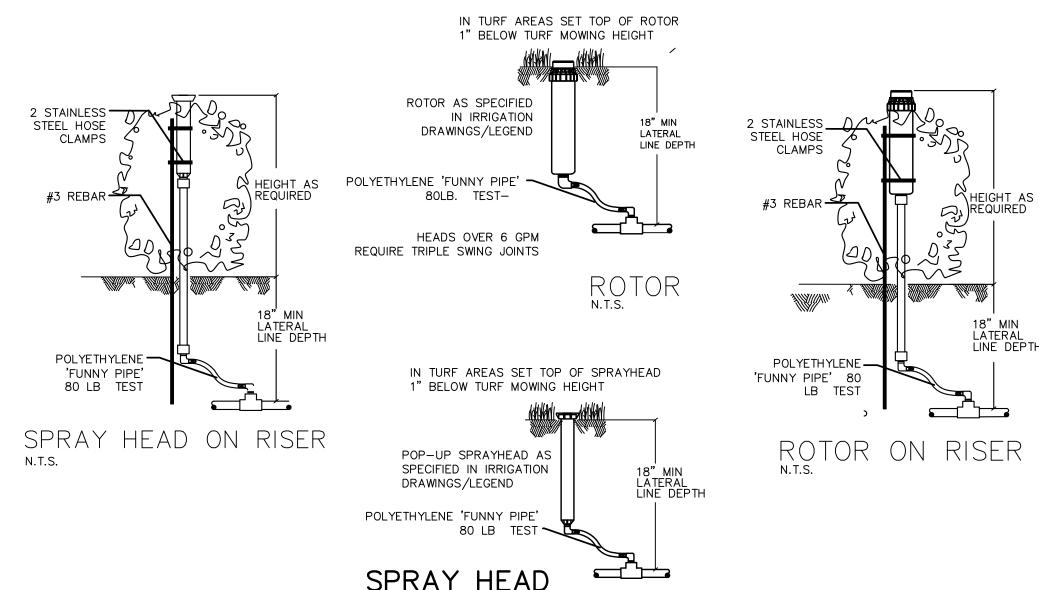
1) THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THERE ARE NO CONFLICTS WITH ABOVE OR BELOW GROUND UTILITIES PRIOR TO WORK.

2) THESE PLANS ARE FOR THE INSTALLATION OF PROPOSED IRRIGATION SYSTEM. ALL UTILITIES, BUILDINGS AND SITE IMPROVEMENTS SHOWN ARE FOR REFERENCE PURPOSES ONLY. THE EXACT LOCATION OF EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR AND UTILITY OWNER, EXPOSING THE SUBJECT FACILITY IF NECESSARY.

3) THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. (PHONE NUMBER 1-800-432-4770) AND ALL OTHER APPROPRIATE UTILITIES COMPANIES TWO WORKING DAYS PRIOR TO WORK IN ORDER TO LOCATE UTILITIES. THE CONTRACTOR SHALL BE PRESENT WHILE UTILITIES ARE BEING LOCATED.

4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY EXISTING UTILITIES CAUSED BY HIS WORK. DETERMINE LOCATION OF UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY WORK AND PERFORM WORK IN A MANNER THAT WILL AVOID POSSIBLE DAMAGE.

5) THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851, 'PROTECTION OF UNDERGROUND GAS PIPE LINES' AND FLORIDA STATUTE 556 'UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY'. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES FOUND IN THE FIELD.



#### **IRRIGATION NOTES:**

1) THE SCOPE OF WORK IS SHOWN IN THIS PLAN SET, AS AMENDED BY CONTRACT DOCUMENTS. THESE PLANS HAVE BEEN DESIGNED TO MEET OR EXCEED THE FLORIDA BUILDING CODE APPENDIX F AND THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION, FIRST PRINTING (JANUARY 1, 2002). THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING AND PROPOSED SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY COSTS OR REQUIREMENTS NECESSARY FOR FINAL ACCEPTANCE SHALL BE CONSIDERED INCIDENTAL TO THE WORK BEING PERFORMED.

2) THIS IS A CLOCK START SYSTEM WITH A PRESSURIZED WATER SUPPLY, CONNECTIONS SHALL BE ACCORDING TO THE CITY OF COCONUT CREEK ENGINEERING STANDARDS AND CODE REQUIREMENTS. A LICENSED ELECTRICIAN SHALL PERFORM ALL ELECTRICAL HOOK UPS.

3) THE CONTRACTOR SHALL PREPARE AS-BUILT PLANS . THE CONTRACTOR SHALL HAVE THE AS-BUILT PLAN SET ON SITE AT ALL TIMES. THE AS-BUILTS SHALL BE SUBMITTED TO THE CITY OF COCONUT CREEK, IF REQUIRED. AS-BUILTS SHALL CLEARLY INDICATE THE ACTUAL INSTALLATION AND LOCATION OF ALL MAIN LINES, LATERAL LINES, SLEEVING, VALVES, AND EQUIPMENT WITH AT LEAST TWO DIMENSIONS FROM FIXED LANDMARKS.

4) ALL IRRIGATION MATERIAL AND EQUIPMENT AND INSTALLATION SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER'S REPRESENTATIVE. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UNUSED AND SHALL BE INSTALLED PER PLANS AND MANUFACTURERS INSTRUCTIONS. DO NOT MAKE SUBSTITUTIONS WITHOUT WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.

5) ANY CHANGES IN CONTROL WIRE THROUGHOUT THE PROJECT SHALL BE INSTALLED INSIDE GRAY PVC CONDUIT WITH APPROPIATE SWEEPS (ELBOWS ARE NOT ACCEPTABLE). INSTALL TYPE 'UF' 600 VOLT 12 GUAGE SINGLE CONDUCTOR SOLID COPPER IRRIGATION CONTROL WIRE WITH COLOR CODED INSULATION. EACH VALVE SHALL HAVE A DIFFERENT COLOR WIRE. INSTALL CONTROL WIRE BELOW THE MAINLINE. WHITE SHALL BE USED FOR THE COMMON. BLUE SHALL BE USED FOR THE EXTRA WIRES. WIRE SPLICES SHALL BE MADE ONLY INSIDE A POLYMER CONCRETE BOX. ALL WIRE CONNECTIONS SHALL BE MADE WITH SILICONE-FILLED WATERPROOF WIRE CONNECTORS. THE COMMON WIRE SHALL RUN TO ALL ENDS OF THE MAINLINE AND EXTRA INDIVIDUAL CONTROL WIRES, BLUE IN COLOR, SHALL BE INSTALLED FOR FUTURE USE FROM THE CONTROLLER TO THE VALVES AS NOTED IN THE PLANS.

6) REPLACEMENT, OR NEW IRRIGATION SPRAY HEADS SHALL BE TORO 570Z SERIUS PRESSURE COMPENSATING WITH COLOR CODED, MATCHED PRECIPITATION RATE NOZZLES. REPLACEMENT, OR NEW IRRIGATION ROTOR HEADS SHALL BE TORO 800 SERIUS. SET SPRAY HEADS 6" AND ROTORS 12" AWAY FROM EDGE OF SIDEWALKS, CURBS AND PAVED AREAS. SET ALL HEADS 12" AWAY FROM ANY

7) VALVES: ALL ELECTRIC REMOTE CONTROL VALVES SHALL BE PEB VALVES. A WATERPROOF LABEL SHALL BE ATTACHED TO EACH VALVE SHOWING THE STATION NUMBER. ISOLATION VALVES SHALL BE NIBCO P-619-RW WITH MECHANICAL JOINT RESTRAINTS TO SECURELY FASTEN TO THE PVC PIPE. ZONE GATE VALVES SHALL BE NIBCO T-311-Y, AS NECESSARY.

8) BOXES: ALL BOXES INSTALLED SHALL BE POLYMER CONCRETE. NO BOXES SHALL BE INSTALLED IN SIDEWALKS, PAVEMENT OR PAVERS. SEE DETAIL FOR BOX INSTALLATION REQUIREMENTS, AS NECESSARY.

9) PIPE AND FITTINGS: IRRIGATION MAINLINE PIPE SHALL BE CLASS 200 GASKETTED AND IRRIGATION LATERAL PIPE SHALL BE SCHEDULE 40. POLY VINYL CHLORIDE (PVC) AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-1785-99, TYPE 1120, 1220, AS NECESSARY.

PVC FITTINGS UP TO 3" SHALL BE SCHEDULE 40; PVC FITTINGS OVER 3" SHALL BE SCHEDULE 80, PER ASTM D-2466-01 AND ASTM D-2467-01. SOLVENT WELD JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-2855. PVC PURPLE COLORED PRIMER IS REQUIRED AND SHALL MEET ASTM F-656 AND PVC CEMENT SHALL MEET ASTM D-2564.

ALL GASKETTED PVC PIPE SHALL HAVE DUCTILE IRON FITTINGS PER ASTM A-536 WITH INTEGRALLY CAST JOINT RESTRAINED CLAMPS TO SECURELY FASTEN TO THE PVC PIPE (WWW.HARCOFITTINGS.COM) OR APPROVED EQUAL. RUBBER RINGS SHALL CONFORM TO ASTM D-1869 AND F-477. MECHANICAL JOINT RETRAINTS SHALL BE INSTALLED ON ALL GASKETTED PVC PIPE AT ALL LINE ENDS, MAINLINE ISOLATION VALVES, REDUCTIONS AND DIRECTION CHANGES PER DETAILS AND MANUFACTURERS INSTRUCTIONS. ADDITIONAL ADJACENT JOINTS MAY ALSO REQUIRE RESTRAINTS. DO NOT COVER FITTINGS WITH CONCRETE.

NO MALE ADAPTERS SHALL BE INSTALLED. ALL THREADED PVC SHALL BE SCHEDULE 80, PER ASTM D-2464-99. AT THREADED JOINTS BETWEEN PVC AND METAL PIPES, THE METAL SHALL CONTAIN THE FEMALE END AND THE PVC SHALL BE THE MALE END.

10) TRENCHING. SLEEVING AND PIPE INSTALLATION: ALL IRRIGATION PIPE UP TO 2 ½" DIAMETER SHALL BE 18" DEEP. ALL IRRIGATION PIPE 3" TO 5" DIAMETER SHALL BE 24" DEEP. ALL IRRIGATION PIPE 6" DIAMETER OR LARGER SHALL BE 36" DEEP. DEPTH SHALL BE MEASURED AT THE TOP OF THE PIPE.

PIPE LAYOUT ON PLANS MAY, OR MAY NOT BE SHOWN. ROUTE PIPES TO AVOID ANY PROPOSED OR EXISTING TREES/PALMS. ALL EQUIPMENT SHALL BE INSTALLED IN PERVIOUS AREAS (EXCEPT WHERE SLEEVING IS INDICATED) WITHIN PROPERTY LINES OR ROAD R/W WHERE APPROPRIATE

11) MAINLINE LEAKAGE TEST SHALL BE PERFORMED FOR FINAL ACCEPTANCE. PROCEEDURE SHALL BE: ALL MAINLINE PIPING SHALL UNDERGO A LEAKAGE TEST AT 100 PSI FOR 2 HOURS AFTER THE PIPE HAS BEEN INSTALLED AND PARTIALLY BACKFILLED, LEAVING ALL JOINTS EXPOSED.

THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 3 WORKING DAYS PRIOR TO TESTING, ALL PUMPS, GAUGES, AND MEASURING DEVICES SHALL BE FURNISHED, INSTALLED, AND OPERATED BY THE CONTRACTOR. THE OWNER'S REPRESENTATIVE SHALL APPROVE ALL ITEMS AND THEIR INSTALLATION.

AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE. THE TWO HOUR MAINLINE LEAKAGE TEST SHALL BEGIN, WATER SHALL BE SUPPLIED TO THE MAINLINE DURING THE TEST PERIOD AS REQUIRED TO MAINTAIN THE TEST PRESSURE AT 100 PSI. THE QUANTITY USED SHALL BE MEASURED BY PUMPING FROM A CALIBRATED CONTAINER.

LEAKAGE IS DEFINED AS THE QUANTITY OF WATER THAT MUST BE SUPPLIED INTO THE MAINLINE TO MAINTAIN THE TEST PRESSURE AT 100 PSI.

THE ALLOWABLE LIMITS FOR LEAKAGE OF GASKETED PVC SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

L = ALLOWABLE LEAKAGE, IN GALLONS PER HOUR

N = NUMBER OF JOINTS

D = NOMINAL PIPE DIAMETER, IN INCHES P = AVERAGE TEST PRESSURE IN PSI

SOLVENT WELDED PVC MAINLINE SHALL HAVE NO LEAKAGE.

WHERE LEAKAGE EXCEEDS THE ALLOWABLE LIMIT THE CONTRACTOR SHALL REMOVE AND RECONSTRUCT AS MUCH OF THE WORK AS IS NECESSARY IN ORDER TO LOCATE AND REPAIR THE PROBLEM. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE CORRECTION OF DEFECTIVE WORK OR TO DAMAGE TO OTHER PARTS OF THE WORK RESULTING FROM SUCH CORRECTIVE WORK. AFTER ALL NECESSARY REPLACEMENTS AND CORRECTIONS THE TEST SHALL BE REPEATED UNTIL SATISFACTORY TO THE OWNER'S REPRESENTATIVE.

12) PRESSURE TEST: AFTER SATISFACTORY COMPLETION OF THE MAINLINE LEAKAGE TEST EACH ZONE SHALL BE SUBJECTED TO A PRESSURE TEST AT THE CRITICAL HEAD. THE PRESSURE SHALL NOT BE MORE THAN PLUS OR MINUS 10% OF THE DESIGN OPERATING PRESSURE OF THE SYSTEM. THE DESIGN OPERATING PRESSURE OF THIS SYSTEM IS 30 PSI FOR SPRAY ZONES AND 40 PSI FOR ROTOR ZONES.

13) OPERATION AND COVERAGE TEST: ALL IRRIGATED AREAS SHALL PROVIDE 100% HEAD TO HEAD COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A RAIN SENSOR. THE RAIN SENSOR SHALL BE INSTALLED TO PREVENT ACTIVATION OF RAIN SENSOR BY ADJACENT HEADS. CONTRACTOR SHALL ADJUST IRRIGATION HEAD HEIGHT, ARC AND RADIUS SETTINGS FOR PROPER COVERAGE AND TO PREVENT OVER SPRAY ON ANY PAVEMENT, WALKS, OR STRUCTURES.

14) THE CONTRACTOR SHALL GUARANTEE IN WRITING ALL WORK AND MATERIALS PERFORMED BY HIM ON THE IRRIGATION SYSTEM FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.

15) THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE. AT LEAST 2 WEEKS PRIOR TO FINAL INSPECTION FOR PURPOSES OF ATTENDING INSPECTION. FINAL ACCEPTANCE WILL NOT BE GIVEN BY THE OWNER'S REPRESENTATIVE UNTIL:

A) COMPLETE INSTALLATION PER PLAN SET

B) SITE CLEAN UP AND RESTORATION C) SUBMISSION OF WRITTEN GUARANTEE

D) SUBMISSION OF AS-BUILTS

E) SUBMISSION OF EQUIPMENT MANUFACTURER'S GUARANTEES AND OWNERS MANUALS

F) COMPLETION OF TRAINING FOR MAINTENANCE PERSONNEL.

G) COMPLETION OF PUNCH LIST ITEMS

H) FINAL WALK THROUGH BY THE OWNER'S REPRESENTATIVE

DATE REVISIONS 1/07/10 REVISED PER CITY COMMENTS 11/09/2009 SCALE DESIGNED BY DRAWN BY

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> SHEET NO. PROJECT NO.

C. MICHAEL OLIVER LORIDA REG. NO. 0000354 (FOR THE FIRM)

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