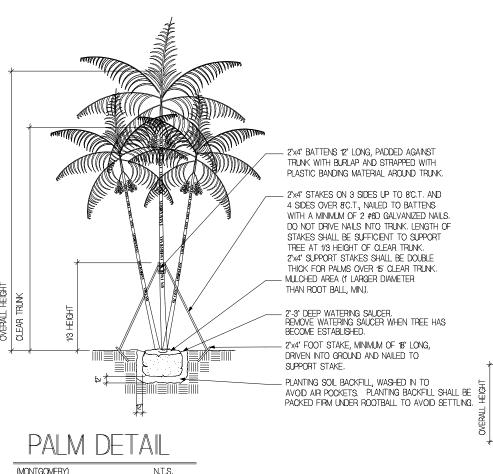
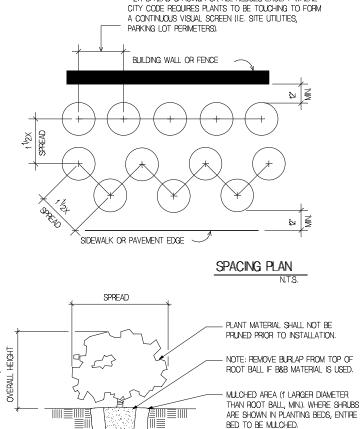
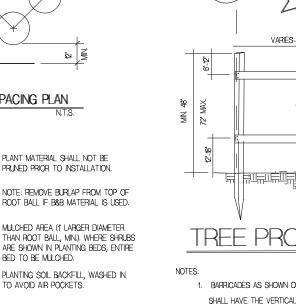


3 BURLAP RINGS AROUND TREE TRUNK OUT AND REMOVE ALL TIES FROM TOP OF ROOT BALL, REMOVE TOP 1/3 OF ALL BURLAP WRAP AND ALL WIRE BASKETS COMPLETELY. IF WIRE BASKETS CANNOT BE REMOVED, CUT ALL WIRES BETWEEN WIRE GRID. SET ROOT BALL 2" ABOVE FIN. GRADE TRUNK FLAIR OR FIRST ORDER ROOTS. MUST BE VISIBLE. WELLINGTON TAPE GUY WRAP LOOPED THROUGH BURLAP RINGS TO 2/3 FROM THE TOP OF THE ROOT BALL ABOVE FIRST BRANCHING IF POSSIBLE, DRAW TAPE TIGHT AND FLAG TAPE WITH BRIGHT COLOR FLAGGING RIBBON IN WO PLACES ON EACH GUY FOR VISIBILITY. MULCH UP TO SIDE OF EXPOSED ROOT BALL + BALANCE OF PIT AREA, NO MULCH OR SOIL SHALL BE PLACED ON TOP OF MINIMUM OF 3 2'X2" ANCHOR STAKES LONG ENOUGH TO SET FIRMLY INTO EXISTING SOIL ALONGSIDE ROOT BALL. SET STAKES AT A SLIGHT DUTWARD ANGLE FROM TREE TRUNK, TOP FLUSH WITH FINISHED GRADE. PLANTING SOIL BACKFILL, WASHED IN TO AVOID AIR POCKETS, PLANTING BACKFILL SHALL BE PACKED FIRM UNDER ROOTBALL TO AVOID SETTLING. ~BOTTOM OF PLANT PIT TWO TIMES THE ROOT BALL AT ROOTBALL BASE N.T.S. EDGE OF PAVEMENT SOD ONLY SOD ONLY

FIRE HYDRANT CLEAR ZONE
NOT TO SCALE FIRE HYDRANT CLEAR ZONE REQUIREMENTS APPLY TO FIRE HYDRANTS, SIAMESE CONNECTIONS AND ANY OTHER FIRE EQUIPMENT FOR UTILIZING FIRE HOSE ON PUBLIC OR PRIVATE PROPERT HOSE ON PUBLIC OR PRIVATE PROPERTY.
BY AUTHORITY OF THE SOUTH FLORIDA FIRE PREVENTION CODE SECT. 52(1.2
THE CLEAR ZONE SHALL BE FREE OF LANDSCAPE (EXCEPT SOD.),
MALBOXES, PARKING, LAMP-POSTS AND ALL OTHER OBJECTS.
EXCEPTIONS OTHER FIRE FIGHTING EQUIPMENT OR TRAFFIC
POSTS TO PROTECT FIRE FIGHTING EQUIPMENT.







DRIP LINE OF TREE

TREE PROTECTION DETAIL

MASS PLANTINGS OR ROWS OF TREES MAY BE PROTECT
ENTIRE MASS OR ROW RATHER THAN NOVIDUAL TREES.

I. BARRICADES AS SHOWN ON THIS DETAIL FOR EXISTING TREES WITH OVER A 30' DIA. CANOPY, SHALL HAVE THE VERTICAL STAKES PLACED AT LEAST 15' FROM THE TRUNK OF THE TREE.

2" X 6" PRESSURE TREATED PINE WITH SHARPENED

END DRIVEN INTO UNDISTURBED SOIL; MIN DEPTH 24'.

TREE PROTECTION.

INSTALL A MIN. OF 4 STAKES AROUND PERIMETER OF TREE.

2" X 4" PRESSURE TREATED PINE HORIZONTAL RAILS NAILED

TO STAKES; SPAN NOT TO EXCEED 10' BETWEEN STAKES.

PRE-USED CHAIN LINK FENCE 4' MIN. HT. MAY BE SUBSTITUTED FOR WOOD

METAL POSTS SHALL BE PRESSED INTO SOIL A MIN. OF 3 FEET WITH SPACING

NO LESS THAN 4' O.C. OR GREATER THAN 8' O.C. MASS PLANTINGS OR ROWS OF TREES MAY BE PROTECTED BY SURROUNDING THE

WILES STORAGE PLANT LIST

NOTE: The quantities on this plant list are to be used as a guide only. Bidder shall do independent takeoff * Denotes native plants. for bidding purposes. CT =CLEAR TRUNK GW = GREY WOOD DBH = DIAMETER BREAST HEIGHT (4 1/2') • OA = OVERALL HEIGHT FTB= FULL TO BASE HVY= HEAVY TRUNK CAL= CALIPER @ 6" / 12" PER GRADES & STDS. SING.= SINGLE TRUNK DBL= DOUBLE TRUNK TRP.= TRIPLE TRUNK STD.= TREE STANDARD MULT = MULTI-TRUNK

STAG = STAGGERED HEIGHTS B&B= BALLED AND BURLAPPED FG= FIELD GROWN ALL PLANT MATERIALS MUST ADHERE TO CURRENT GRADES AND STANDARDS FOR FLORIDA NUMBER ONE QUALITY OR BETTER. CONTAINER SIZE, WHEN LISTED, IS THE MINIMUM CONTAINER SIZE ACCEPTABLE FOR THE PLANT SPECIFIED. ALL PLANT MATERIAL WILL BE ACCEPTED BY THE PLANT SIZE SPECIFICATION AND NOT THE CONTAINER SIZE.

			UA		INUME	INDIVIN	
SYM	ONT BOTANICAL NAME	COMMON NAME	<u>HEIGHT</u>	SPREAD	SPECS.	DIA.	COMMENT
TREES							
BS14	7 Bursera simaruba	*Gumbo Limbo	15'	7*	4.5'CT	3"dbh	
CE10	4 Conocarpus erectus	*Green Buttonwood	10'	4'	2'-3'CT	2"dbh	
ELA10	5 Elaeocarpus decipiens	Japanese Blueberry	10'	4'	3'CT	2"dbh	
HR6	5 Hibiscus Seminole Pink	Hibiscus Seminole Pink	6'	3'-4'	3'CT	1.5"dbh	Tree Std.
LI10	5 Lagerstroemia indica	Crape Myrtle	10'	4'	1'-2'CT	2"dbh	
LJ10	6 Ligustrum japonicum	Wax Privet	10'	4'	3'CT	1.5"dbh	MULT
QV12	4 Quercus virginiana	*Live Oak	12'	6'	4.5'CT	2.5"dbh	
TIP12	5 Tabebuia impetiginosa	Purple Trumpet Tree	12'	6'	4.5'CT	2.5"dbh	
<u>PALMS</u>							
VM20	21 Vetchia montgomeryana	Montgomery Palm	20'				SINGLE
SHRUB!	<u>s</u>		*				
ALCH	6 Allamanda cathartica hendersonii	Hend. Dwarf Allamanda	24"	18"			
CE4	33 Conocarpus erectus	*Green Buttonwood	4'	2'			
CI	322 Chrysobalanus icaco	*Cocoplum	24"	18"			Full
COF4	4 Cordyline fruticosa	Red Sister Ti Plant	.4'	3'			
CVP	32 Codiaeum variegatum 'Petra'	Petra Croton	24"	18"			3 Per Pot
FGI	105 Ficus microcarpa	Green Island Ficus	18"	18"			
HPC	35 Hamelia patens	* Firebush	18"-24"	18'			Full
ING	50 Ixora 'Nora Grant'	Nora Grant Ixora	24"	18"			Full
JV	160 Jasminum volubile	Wax Jasmine	24"	18"			Full
POP	15 Podocarpus macrophyllus Pringles	Pringles Dwarf Podocarpus	18"	18"			
VS	17 Viburnum suspensum	Sandankwa Viburnum	24"	18"			
	DCOVER		ě				
ADM	36 Asparagus densiflorus'Myers'	Foxtail Fern		8"-10"			Full Gal.
NE	380 Nephrolepis exaltata	*Boston Fern	10"				Full Gal.
SC	15 Seasonal Color	Flowers as Available		4"-6"			Full
OTHER	LANDSCAPE MATERIALS:						
MUL	Mulch (in Bags)		-				As needed
SOIL	Planting Soil (Cubic Yards)						As needed
SOD	TO BE MEASURED IN FIELD	LOCATION AS SHOWN	ON PLAN & O	GENERAL SI	PECIFICATION	NS.	
	45 RELOG	CATED SABAL PALMS					

CITY OF COCONUT CREEK

STANDARD LANDSCAPE NOTES

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. 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 prior to installation.

Landscape shall be placed to edge of abutting streets, canals, lakes or other lands. 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.

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.

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. ic/canvas straps, etc., must be cut and removed for the top one-half (1/2) dept

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. All plant material shall be free of pests, insects, disease, weeds, etc.

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. All plant material shall be planted at the proper depth, as originally grown and/or so the top of the root ball is flush or slightly above finished grade immediately after planting. All trees should provide trunk taper when properly planted at the correct planting depth.

All plant material shall be watered in at time of planting to eliminate air pockets in the root zone area. Upon completion of work, the site shall be cleared of all debris, superfluous materials, and equipment caused by this permit to the satisfaction of the inspector.

Refer to Coconut Creek Fire Equipment Clear Zone diagram to maintain a safe zone fronting fire hydrants. Do not plant trees, shrubs or groundcover within Electric Meter Clear Zone. Provide a safe zone as described by the Electrical Inspector.

All landscaped areas shall be provided with an underground fully automatic irrigation system using pop-up sprinklers. System shall provide 100% coverage with 50% overlap (minimum) using rust free water, except preserved areas remaining in natural state. A rain sensor device or switch shall be 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. Irrigation permits and plans shall be submitted for approval at time of building permits.

All non-single family or duplex irrigation systems other than City water systems shall require a South Florida Water Management District water use permit prior to issuance of an irrigation permit and installation of the irrigation system as required.

All site amenities to include site street lights, landscape common open space, irrigation common open space, buffers, berms, landscape entry features, etc. leading up to and including the model center and/or first certificate of occupancy must be completed and functional prior to issuance of the first requested certificate of occupancy. The height of all required, designed and installed berms shall be from the highest adjacent point whether it is the sidewalk, parking area, vehicular use area, surrounding ground, etc. Where a berm abuts a sidewalk, there shall

An inspection is required prior to the backfilling of trees/palms in all parking medians and islands.

be a one (1) foot level sod area adjacent to the sidewalk prior to the start of incline for the berm.

LANDSCAPE DATA- WILES STORAGE FACILITY PARCEL PERVIOUS AREA PROVIDED: 19,166 SF SEC. 13-443(4) LANDSCAPE OPEN SPACE: .423 AC = 19,166 SF

19,166/1000 = 19 SITE TREES REQUIRED AND PROVIDED 19 X 5 = 95 SITE SHRUBS REQUIRED AND PROVIDED 7b. LANDSCAPE TO CANAL OR LAKE AND STREET EDGE REQUIRED AND PROVIDED 7e. BUILDING PERIMETER: 1 TREE, 20 SHRUBS AND 30 GROUNDCOVER/40 LF REQUIRED, N. FACE = 117 LF/40= 3TREES 60 SHRUBS, 90 GC REQUIRED AND PROVIDED ALONG ADJACENT PROPERTY LINE TO THE NORTH. S. FACE 180 LF/40 = 5 TREES, 100 SHRUBS, 150 GC. REQUIRED AND PROVIDED E. FACE 127 LF/40- 3 TREES, 60 SHRUBS, 90 GC REQUIRED AND PROVIDED

W. FACE = 103 LF /40 = 3 TREES, 60 SHRUBS, 90 GC REQUIRED AND PROVIDED 10. PERIMETER LANDSCAPE REQUIRED AND PROVIDED: NORTH PROPERTY LINE: I TREE/40 LF AND CONTINUOUS HEDGE 165 LF/40= 4 TREES REQUIRED AND PROVIDED ALONG ADJACENT PROPERTY LINE. CONTINUOUS HEDGE PROVIDED SOUTH PROPERTY LINE (R.O.W.); I TREE / 40 LF & CONT. HEDGE REQUIRED. 217 LF/40 = 6 TREES & CONT. HEDGE PROVIDED WITHIN LINEAR PARK. SITE TREES REQUIRED AND PROVIDED.

WEST PROPERTY LINE: 1 TREE / 40 LF & CONTINUOUS HEDGE REQUIRED. SITE TREES REQUIRED AND PROVIDED 11a, SCREEN STORAGE AND DUMPSTER AREAS REQUIRED AND PROVIDED 12a. PARKING INTERIOR: SHARED PARKING

EAST PROPERTY LINE: 209 LF/40= 5 TREES REQUIRED AND PROVIDED CONTINUOUS HEDGE REQUIRED & PROVIDED

13. STREET TREES REQUIRED: 218 LF/40= 6 STREET TREES REQUIRED/PROVIDED WITHIN LINEAR PARK. VUA: 12 PARKING SPACES X 300 = 3600 7,405 SF OF PAVED AREA - 3600 = 3805 TERMINAL ISLANDS = 4 TREES REQUIRED AND PROVIDED 62 TREES REQUIRED BY CODE - 62 TREES PROVIDED

395 SHRUBS REQUIRED, 190 (40%) NATIVE, 190 NATIVE SHRUBS PROVIDED

34 NEW TREES + 19 EXISTING TREES +8 TRIPLE MONTGOMERY PALMS @ 3:1 +24 SABALS @3:1 (8)= 63 TREES PROVIDED 395 SHRUBS PROVIDED + CONT. HEDGE. 390 GROUNDCOVER REQUIRED, 390GROUNDCOVER PROVIDED 40% SHADE TREES (25) REQUIRED, 25 PROVIDED AT 12'HT OR GREATER INCLUDING LINEAR PARK 30% INTERMEDIATE TREES (18) REQUIRED, 18 PROVIDED AT 10' HT. INCLUDING LINEAR PARK MAX OF 10% SMALL TREES , 3 (5%) PROVIDED AT 6' HT. 31 NATIVE TREES REQUIRED, 31 (50%) NATIVE PROVIDED INCLUDING SABALS AT 3:1

GENERAL SPECIFICATIONS

1. All plant materials shall be Florida No. 1 or better as set forth by the Florida Department of Agriculture, Grades and Standards for Nursery Plants, current edition. All plants to be graded shall comply with the general Certification that all plant materials installed are Florida No. 1 or better shall be the sole responsibility of the Landscape Contractor. Said certification shall be provided to the Owner or his authorized representative at the time of delivery of the plant material to the

job site. Any dispute regarding plant material grade shall be determined by a representative of the Division of Plant Industry of the State of Florida. All rules and guidelines set by the State for the purposes of grading plant materials shall be followed.

2. Palms shall be planted so that all heads are clear of building walls and windows at mature spread. 3. All Sabal Palms, Queen Palms, Washingtonia Palms, Phoenix varieties and all other single trunk, upright varieties with six foot (6') of clear trunk or greater shall be staked as detailed. 4. All trees shall be planted so that heads will be clear of building walls, roof lines and windows at mature spread. Shade trees shall not be located closer that fifteen feet (15') from project light poles. Medium and small trees and palms shall not be planted closer than seven and one half feet (7 1/2) from project light poles.

Florida Power and Light tree location guidelines shall be followed in all cases relating to FPL power pole or easement locations. Where Codes require, locations of all trees planted in Rights-Of-Way or utility easements shall be confirmed by the landscape contractor with the City or County Engineer before installation. All tree trunk calipers shall be measured at 4 1/2' above top of root ball. All trees that are designated as single - trunk trees shall have a single, dominant leader and a relatively straight trunk.

All trees that are designated as multi-trunk trees shall have at least three trunks with equal calipers originating from the base of the trees, and with angles no greater than 45 degrees. Trees with bark inclusion or codominant trunks will not be accepted. 5. All Trees and Palms shall be kept in an upright position. Under no circumstances shall any support method used employ the driving of nails or other mechanical devices of any kind into

the bark of any tree or palm. All staking except Terra Toggle shall be removed approximately 6 months after planting or at the time of establishment of the tree. Any exposed Terra Toggle straping shall be cut and removed after the wood supports have decomposed All synthetic burlap, synthetic string or cords shall be removed before any trees are planted. All synthetic tape (ie. tagging tape, nursery tape) shall be removed from trunks, branches,

etc. before inspection. The top one-third of any natural burlap shall be removed before the trees are backfilled. All wire baskets shall be removed from the top and sides of the rootball to a depth of 3" and all remaining wire shall be cut to prevent gurdling. All trees, (except palms) and other plants shall be planted with the top of their rootballs 2" (+/-) above the final grade surrounding the planting area as detailed. Palms shall be planted with the top of the rootball flush with the surrounding area. 6. All trees within or overhanging pedestrian areas shall

movement under or around trees. Sight distance concerns must be maintained for clear sight visibility from thirty (30) inches to seventy-two (72) inches, tree trunks excluded. 7. All hedges shall be planted with twelve inches (12") clear space between outer branches and building walls, fences or

have a clear trunk high enough to allow unobstructed pedestrian

pavement edges and three feet (3') back from edge of parking spaces at the time of planting. Spacing of shrubs center to center shall be as specified by the municipality for screening requirements. All mechanical equipment, air conditioning, irrigation pumps, FPL transformers, pool pumps, etc., must be screened on three (3) sides by shrubs.

8. Irrigation shall be by underground, automatic, rust free system with 100% coverage and a minimum of 50% overlap of spray. Irrigation rain sensor shall be installed. Irrigation water shall not be directed onto or over impervious surfaces. Irrigation systems other than City water shall require a South Florida Water Management District water use permit prior to the issuance of the required irrigation permit from the City and/or the operation of the irrigation system. Approved irrigation permits shall be required from the City prior to installation.

9. Planting soil shall be at least 30% muck and 70% sand pulverized and weed free, to be mixed with existing soil free from rocks and debris and backfilled into plant pits by washing i. Planting soil for Sabal Palms shall be clean sand. Existing si may be used as planting soil if approved by the Landscape Architect. 10. Fertilizer for trees and shrubs shall be a general purpose 50% organic fertilizer low in phosphorus, with minor elements, iron and manganese and shall be mixed with the planting soil at the time

of backfilling. Fertilizer for palms shall be a palm special type to include manganese and magnesium sulfate. Application rates for all fertilizers at the time of planting shall be 1/2 the manufacturers recommendations for established

11. Mulch shall be shreaded eucalyptus or other clean hardwood species grade "B" or better set at a 3" minimum depth and wet down to prevent wind displacement Cypress, red or dyed mulch shall not be accepted. All mulch shall All mulch shall be certified "Arsenic Free".

All trees shall have a water ring with a minimum depth of two inches, maximum of three inches, and a diameter of 3 feet to 4 feet around the base. No mulch shall be placed over the rootball of any tree. All mulch shall be kept two inches from the stems of all

12. Sod shall be Stenotaphrum secundatum "Floritam" or "Palmetto" solid sod, weed free and set with staggered joints. Sod shall be placed on all areas not used for buildings, vehicular use areas, walks, site structures or planting beds and shall extend to any abutting street pavement edge and to the mean waterline of any abutting canal, lake or waterway. Sod shall be placed no closer that three (3) feet from the trunk of any tree. Sod placed adjacent to pavement and curbs shall be set with top of

sod-soil set flush with the top of the adjacent pavement and/or curb. 13. Planting plans take precedence over plant lists. The Landscape Contractor shall be responsible for doing his own takeoff. The Landscape Contractor shall familiarize himself with the municipal code and deed restrictions of the municipality in which the project is located. All existing codes and deed restrictions pertaining to the municipality in which the project is located shall apply and may supersede these General Specifications. The more stringent requirement shall

14. The Landscape Contractor shall be aware of the locations of all easements and utilities above and below ground and shall call for utility stakeout forty eight (48) hours before any digging operations begin.

All plant pits located in easements shall be hand dug. 15. The Landscape Contractor shall provide a written guarantee to the Owner for all plant materials and workmanship for a period no less than one year from the time of final inspection and acceptance by the Owner. At the end of the guarantee period, all plant materials shall be inspected by the Landscape Contractor and the Owner. All plants

that are in a healthy, growing condition at the time of the inspection shall be free from further guarantee and shall be the Owners responsibility. All plants that are in questionable condition due to transplant shock shall continue under the guarantee until recovery or, if deemed severely retarded in growth or dead, shall be replaced. Replaced plant material shall be guaranteed for the same time period and under the same conditions as the original plant material. This guarantee does not apply if the plant materials have not been maintained by the Owner as instructed by the Landscape Contractor, are damaged by storms, vandalism, insect or freeze damage or acts of God beyond the Landscape Contractors control. All plants shall be free from harmful plant pests at the time of planting.

- Richard Control of the second control of t

HEET NO: OF: ONE