

Stephanie Portus FL Reg LA 6667215

Certificate of Authorization LC26000604

project number

18-071

sheet name

N

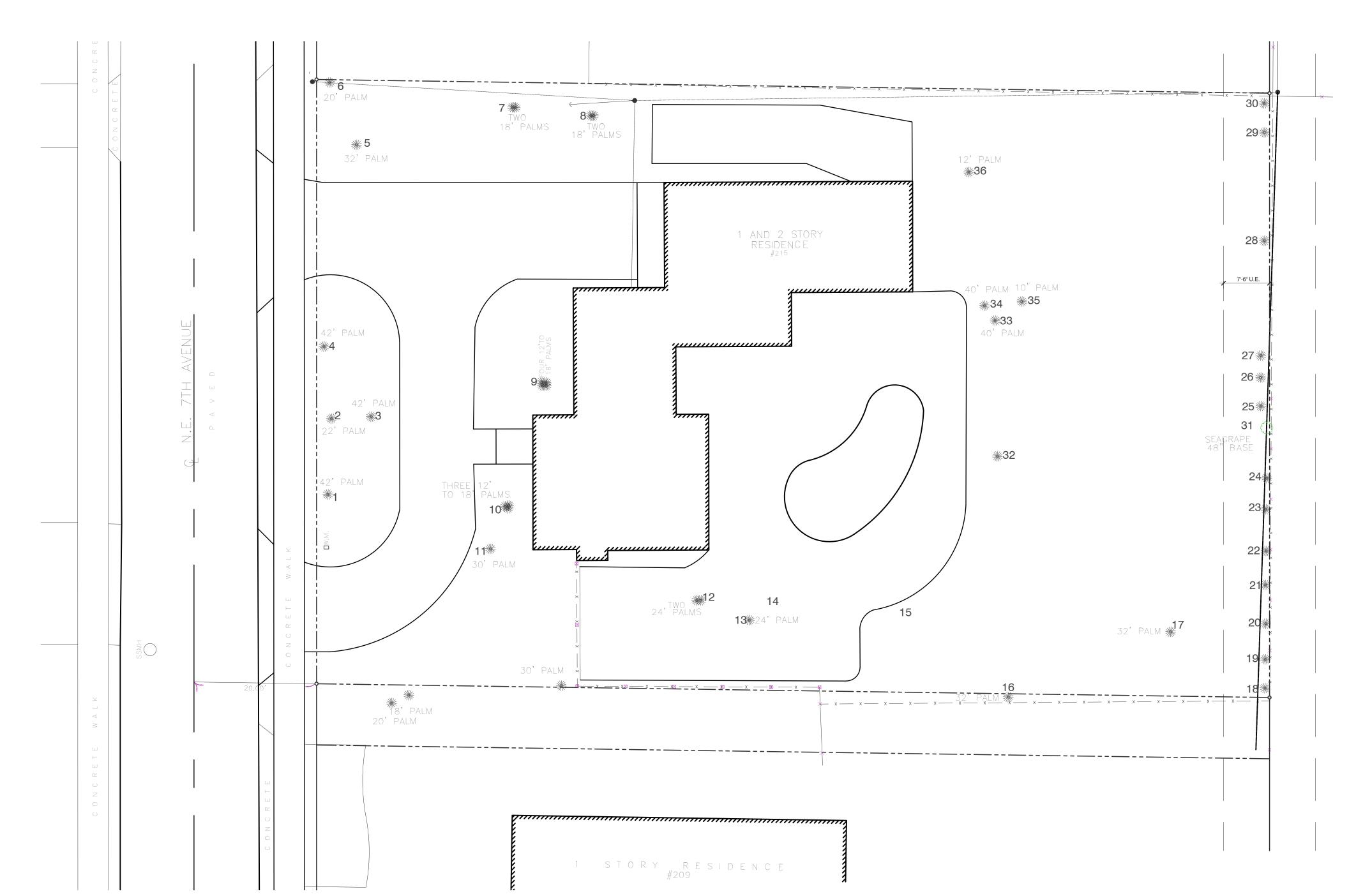
LANDSCAPE

REV. #2
ER TAC COMMENTS
02/05/19

02/05/19

0 5 10 20 3

1" = 10'

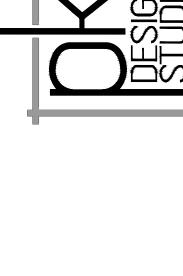


TREE#	COMMON NAME	BOTANICAL NAME	HEIGHT (ft)	WIDTH (ft)	CLEAR TRUNK (ft)	DBH (in)	HEALTH COND %	DISPOSITION	MITIGATION REQUIRED MITIGATION PROVIDED	IN L	
1	Coconut palm	Cocos nucifera	42	25	28	13	80	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (BN-20) -SEE LANDSCAPE PLAN	\$	-
2	Bismarck palm	Bismarkia nobilis	30	26	20	18	85	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (BN-20) -SEE LANDSCAPE PLAN	\$	E
3	Coconut palm	Cocos nucifera	42	25	30	11	80	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (SP-R)-SEE LANDSCAPE PLAN	\$	-
4	Coconut palm	Cocos nucifera	42	25	30	12	80	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (SP-R) -SEE LANDSCAPE PLAN	\$	_
5	Coconut palm	Cocos nucifera	32	20	22	9	85	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (SP-R) -SEE LANDSCAPE PLAN	\$	-
6	Cabbage palm	Sabal palmetto	20	8	12	14	80	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (SP-R) -SEE LANDSCAPE PLAN	\$	_
7	Foxtail palm	Wodyetia bifurcata	18	16	10	7,9	75	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (SP-R) -SEE LANDSCAPE PLAN	\$	-
8	Foxtail palm	Wodyetia bifurcata	18	16	10	10,10	80	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (SP-R) -SEE LANDSCAPE PLAN	\$	-
9	Christmas palm	Adonidia merrillii	26	20	15	5,5,5,5	60	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (SP-R) -SEE LANDSCAPE PLAN	\$	-
10	Christmas palm	Adonidia merrillii	24	15	12	5,5,5	60	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (SP-R) -SEE LANDSCAPE PLAN	\$	-
11	Coconut palm	Cocos nucifera	35	25	24	8	80	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (SP-R) -SEE LANDSCAPE PLAN	\$	-
12	Christmas palm	Adonidia merrillii	24	15	12	5,5	70	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (SP-R) -SEE LANDSCAPE PLAN	\$	-
13	Foxtail palm	Wodyetia bifurcata	28	20	12	9	80	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (VM-20) -SEE LANDSCAPE PLAN	\$	-
14	Areca palm	Dypsis lutescens	18	20	10	multi	50	REMOVE	N/A	\$	
15	Coconut palm	Cocos nucifera	40	25	30	11	80	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN IN LIEU FEE	\$ 5	515.00
16	Cabbage palm	Sabal palmetto	30	8	22	12	80	ADJ PROPERTY	N/A	\$	
17	Cabbage palm	Sabal palmetto	32	10	24	12	80	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (VM-20) -SEE LANDSCAPE PLAN	\$	_
18	Areca palm	Dypsis lutescens	22	12	10	multi	65	REMAIN	N/A	\$	<i>-</i>
19	Areca palm	Dypsis lutescens	22	12	10	multi	65	REMAIN	N/A	\$	_
20	Areca palm	Dypsis lutescens	22	12	10	multi	65	REMAIN	N/A	\$	-
21	Areca palm	Dypsis lutescens	22	12	10	multi	65	REMAIN	N/A	\$	_
22	Areca palm	Dypsis lutescens	22	12	10	multi	65	REMAIN	N/A	\$	-
23	Areca palm	Dypsis lutescens	22	12	10	multi	65	REMAIN	N/A	\$	=
24	Areca palm	Dypsis lutescens	22	12	10	multi	65	REMAIN	N/A	\$	-
25	Areca palm	Dypsis lutescens	22	12	10	multi	65	REMAIN	N/A	\$	-
26	Areca palm	Dypsis lutescens	22	12	10	multi	65	REMAIN	N/A	\$	-
27	Areca palm	Dypsis lutescens	22	12	10	multi	65	REMAIN	N/A	\$	-
28	Areca palm	Dypsis lutescens	22	12	10	multi	65	REMAIN	N/A	\$	-
29	Areca palm	Dypsis lutescens	24	12	14	multi	75	REMAIN	N/A	\$	-
30	Areca palm	Dypsis lutescens	24	12	14	multi	75	REMAIN	N/A	\$	-
31	Seagrape	Coccoloba uvifera	40	35		51	65	REMOVE	REPLACE WITH EQUAL CALIPER INCHES 41" REPLACED ON SITE-SEE LANDSCAPE PLAN	\$4,9	900.00
32	Bismarck palm	Bismarckia nobilis	12	10	6	15	75	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (VM-20) -SEE LANDSCAPE PLAN	\$	_
33	Royal palm	Roystonea regia	40	20	19	85	85	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (VM-20) -SEE LANDSCAPE PLAN	\$	=
34	Coconut palm	Cocos nucifera	40	25	30	13	85	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (LL) -SEE LANDSCAPE PLAN	\$	
35	Coconut palm	Cocos nucifera	15	10	6	8	70	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (LL) -SEE LANDSCAPE PLAN	\$	-
36	Foxtail palm	Wodyetia bifurcata	1	12	8	9	80	REMOVE	REPLACEMENT- (1) FOR (1) 16'OA MIN REPLACED ON SITE (VM-20) SEE LANDSCAPE PLAN	\$	_

BOUNDARY/TREE SURVEY PROVIDED BY: O'BRIEN, SUITER & O'BRIEN, INC PAUL D. ENGLE, 561-276-4501

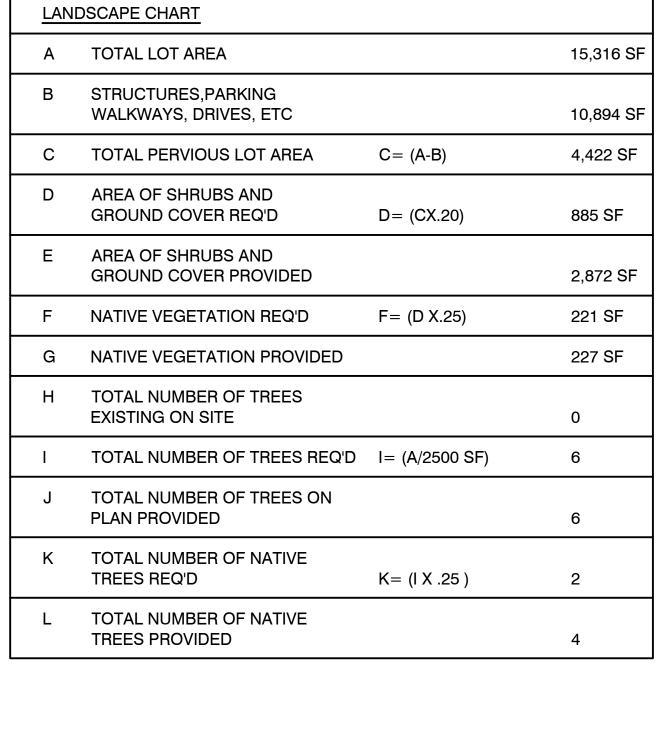
TREE/PALM INVENTORY AND EVALUATION PROVIDED BY:
JEREMY T. CHANCEY, CONSULTING ARBORIST
754-551-6954

Call Sunshine No-Cuts 48 hours before you dig. 1-800-432-4770



Stephanie Portus FL Reg LA 6667215

PLAN



PLEASE NOTE:

- APPROXIMATE LOCATION OF EXISTING ARECA

VERIFY QUANTITY AND LOCATION OF PROPOSED

REFER TO CIVIL ENGINEER'S DRAWINGS

APPROXIMATE LOCATION OF EXISTING ARECA

VERIFY QUANTITY AND LOCATION OF PROPOSED

APPROXIMATE LOCATION OF EXISTING ARECA

CLEAN OUT DEAD FRONDS VERIFY QUANTITY AND LOCATION OF PROPOSED

PALMS TO REMAIN CLEAN OUT DEAD FRONDS

ARECA PALMS IN FIELD

— OVERHEAD WIRE

— RETAINING WALL

- PROPERTY LINE

PALMS TO REMAIN CLEAN OUT DEAD FRONDS

ARECA PALMS IN FIELD

PALMS TO REMAIN

ARECA PALMS IN FIELD

- APPROXIMATE LOCATION OF EXISTING

VERIFY QUANTITY AND LOCATION OF PROPOSED ARECA PALMS IN FIELD

ARECA PALMS TO REMAIN CLEAN OUT DEAD FRONDS

— OVERHEAD WIRE

- POOL EQUIPMENT

7'-6" U.E.

COVERED PATIO

ĂRŤIFICIĂL Ť

POOL 2

COVERED PATIO

EASEMENT

REFER TO ARCHITECT'S DRAWINGS

8' HT WALL — REFER TO ARCHITECT'S DRAWINGS

REFER TO CIVIL ENGINEER'S DRAWINGS

REFER TO ARCHITECT'S DRAWINGS

→ PROPERTY LINE

COVERED PATIO

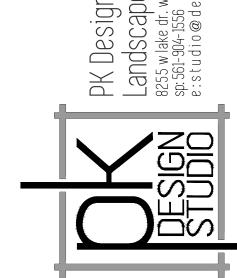
→1'-6" (11'-0" NAVD) FINISH FLOOR

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1'-6" (11'-0" NAVD) FINISH FLOOR

- ALL PLANT MATERIAL SHALL BE FLORIDA #1 GRADE OR BETTER
- MULCH SHALL BE APPLIED TO A MINIMUM DEPT OF THREE (3) INCHES IN ALL PLANTING BEDS
- ALL PROHIBITED PLANT SPECIES SHALL BE ERADICATED FROM THE SITE

 ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH AN IRRIGATION.
- ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM, AUTOMATICALLY OPERATED, TO PROVIDE COMPLETE COVERAGE TO ALL PLANT MATERIALS AND GRASS
- SOD AND IRRIGATION SHALL BE PROVIDED WITHIN THE UNPAVED PORTION OF THE RIGHT-OF-WAY ADJACENT TO THE PROPERTY LINE
- THREE (3) PALMS ARE EQUIVALENT TO (1) SHADE TREE
- ANY TREES PLACED WITHIN THE WATER, SEWER OR DRAINAGE
 EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD
 DETAILS: LD 1.1 AND LD1.2



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0 5 10 20

1" = 10'

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OVERHEAD WIRE TO BE —

EDGE OF TRAVEL LANE -

PROPOSED SIDEWALK —

10'X10' SIGHT VISIBILITY -

10'X10' SIGHT VISIBILITY -

TRIANGLE

5'-0" ROW DEDICATION

TRIANGLE

PROPERTY LINE -

REMOVED

1 STORY RESIDENCE #223

> POOL AND A/C EQUIPMENT

- RETAINING WALL

UNIT B

POOL AND
A/C EQUIPMENT

1 STORY "RESIDENCE

UNIT C

LOT 2, BLOCK 122

MICRO D/W WINE

REFER TO CIVIL ENGINEER'S DRAWINGS

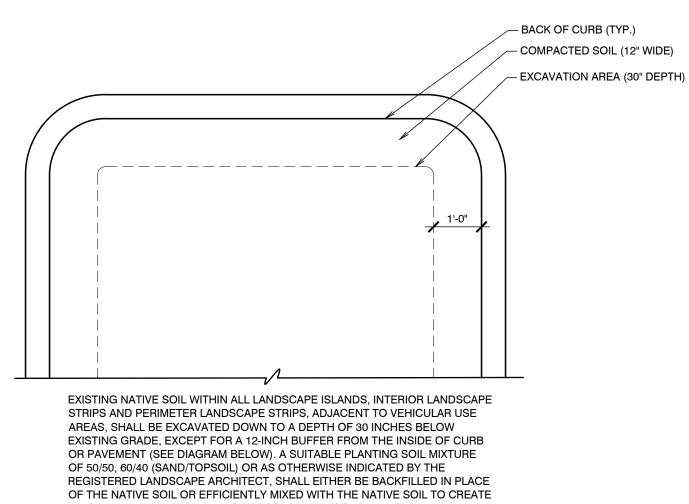
REFER TO ARCHITECT'S DRAWINGS

PLANT SCHEDULE

'Empire' Zoysia

PLANT 9	SCHEDULE							
TREES CE-S	BOTANICAL NAME / COMMON NAME Conocarpus erectus `Sericeus` / Silver Buttonwood	CONT 45G	CAL 2" CAL	<u>HT</u> 12` HT	SPD 4`-5` SPD	QTY 4	REMARKS SINGLE LEADER, DENSE, SYMMETRICAL CANOPY. MATCHING	
ED-S10	Elaeocarpus decipiens / Japanese Blueberry Tree	65G	3" CAL	10` HT	4`-5` SPD	9	STANDARD/TREE FORM, DENSE, SYMMETRICAL CROWN, STRAIGHT TRUNK, 4`CT, MATCHING-SUBMIT PHOTO	
PALM TREES BN-20	BOTANICAL NAME / COMMON NAME Bismarckia nobilis `Silver` / Silver Bismarck Palm	CONT FIELD GROWN	CAL	<u>HT</u> 20` HT	SPD 22`SPD	QTY 2	REMARKS FLORIDA FANCY, HEAVY, INTACT FRONDS. MATCHING-SUBMIT PHOTO	
DL-16	Dypsis lutescens / Areca Palm	B&B		16` HT	6`-7` SPD	19	DENSE FOLIAGE, FULL TO BASE	
LL	Latania loddigesii / Blue Latan Palm	FIELD GROWN		6` HT	10` SPD	2	SYMMETRICAL HEAD, INTACT FRONDS. GOOD COLOR	
SP-R	Sabal palmetto / Cabbage Palmetto-REGENERATED	FIELD GROWN		18` CT		9	REGENERATED-FLORIDA FANCY, SLICK-MATCHING. SUBMIT PHOTO TO LA FOR APPROVAL	
VM-22	Veitchia montgomeryana / Montgomery Palm	B&B		22` HT	16` SPD	5	SINGLE, FULL HEAD, STRAIGHT UNSCARRED TRUNK	
SHRUBS ED-C4	BOTANICAL NAME / COMMON NAME Elaeocarpus decipiens / Japanese Blueberry Column	<u>CONT</u> 15G/17"	HT 4`HT	<u>W</u> 30" W		QTY 7	REMARKS COLUMN/BUSH FORM, LOW BRANCHING, DENSE FOLIAGE	
ED-C6	Elaeocarpus decipiens / Japanese Blueberry Column	25G/21"	6` HT	3`-4` W		7	COLUMN/BUSH FORM, LOW BRANCHING, DENSE FOLIAGE	
PRC	Philodendron x `Rojo Congo` / Rojo Congo Philodendron	3G/10"	2` HT	24" W		38	FLORIDA FANCY, 3 PLANTS PER POT. INTACT LEAVES, GOOD COLOR	
PM-5	Podocarpus macrophyllus maki / Shrubby Yew	15G/17"	5` HT	24" W		101	FULL, DENSE FOLIAGE TO BASE, SHEAR TO 5` HT	
SHRUB AREAS FM-G	BOTANICAL NAME / COMMON NAME Ficus microcarpa `Green Island` / Green Island Ficus	CONT 3G/10"	HT 16"	<u>W</u> 14"	SPACING 18" O.C.	<u>QTY</u> 328	REMARKS FULL, DENSE FOLIAGE, GOOD COLOR	
PM-D	Podocarpus macrophyllus `Dwarf Pringles` / Dwarf Podocarpus	3G/10"	16"	14"	18" O.C.	106	FULL, DENSE, FOLIAGE TO BASE	
TA-M2	Trachelospermum asiaticum `Minima` / Minima Jasmine	3G/10"	14"	18"	20" O.C.	63	FULL POT, DENSE FOLIAGE	
VO-W	Viburnum obovatum / Walter's Viburnum	3G/10"	18"	18"	24" O.C.	107	DENSE, SYMMETRICAL FOLIAGE. NO VOIDS	
MISC	BOTANICAL NAME / COMMON NAME	QTY		<u>REMARKS</u>				
BIO	Bio Barrier-'Typar' or equal	Verify LF in field		PROVIDE BIO BARRIER ROOT CONTROL AT ROOTBALLS AS REQUIRED BY UTILITIES				
GRAVEL	Selected by client	Verify quantity in fie		PROVIDE MIN. 2" THICK APPLICATION PROVIDE OPTIONAL BLACK ALUMINUM EDGING ALONG LANDSCAPE BEDS-PERMALOC 'CLEAN LINE' OR EQUAL				
MULCH	Grade B+ Cypress Mulch	Verify quantity in fie	eld	MINIMUM 3" DEPTH				

Verify SF in field

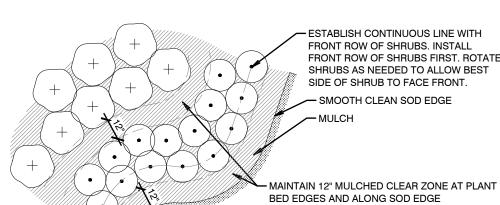


AN OPTIMUM ENVIRONMENT FOR SUCCESSFUL ROOT DEVELOPMENT. IF NATIVE SOIL IS TO BE MIXED, IT SHALL FIRST BE SCREENED TO REMOVE ROCKS AND DEBRIS LARGER THAN ONE-HALF INCH IN DIAMETER PRIOR TO MIXING. ALL PROPERTIES UNDER THIS SECTION SHALL BE REQUIRED TO HAVE AN OPEN LANDSCAPE BED INSPECTION PRIOR TO BACKFILLING TO INSURE THE 30-INCH DEPTH HAS BEEN MET.

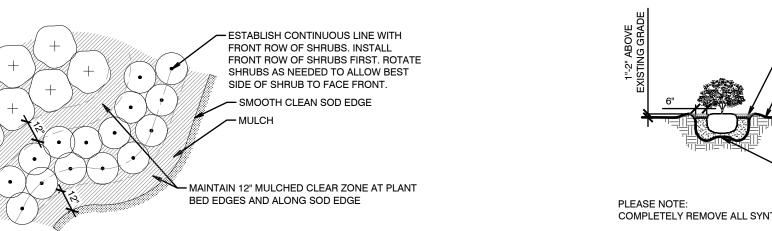
EXCAVATION DIAGRAM

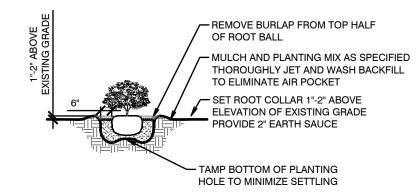
PER LDR 4.6.16(H)(3)(N)

MINIMUM 16"X24" PIECES, GRADED #1 OR BETTER, SEE LANDSCAPE SPECIFICATIONS SHEET



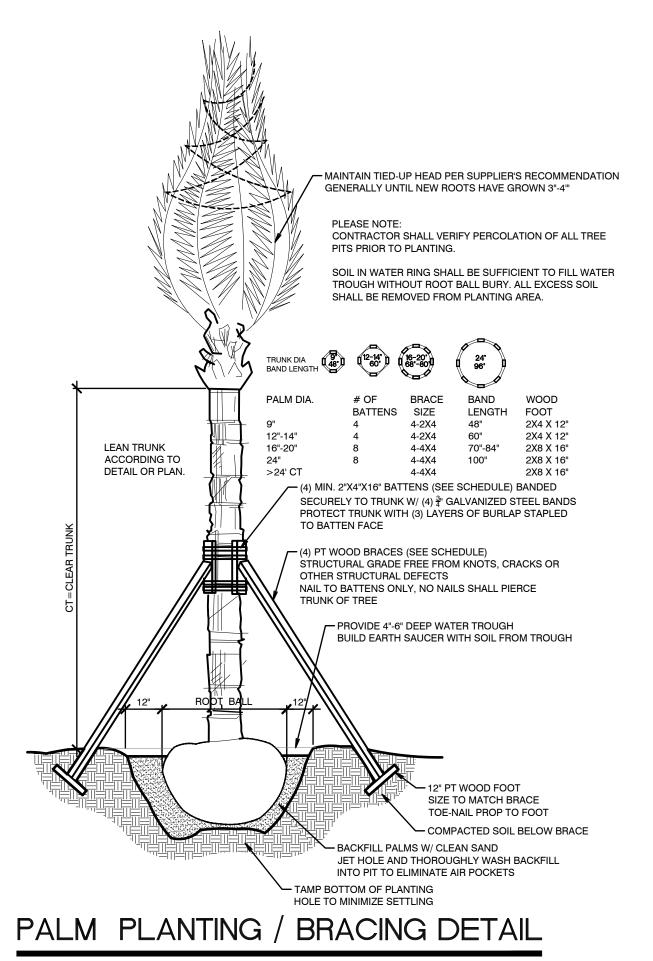
SHRUB/ GROUND COVER LAYOUT

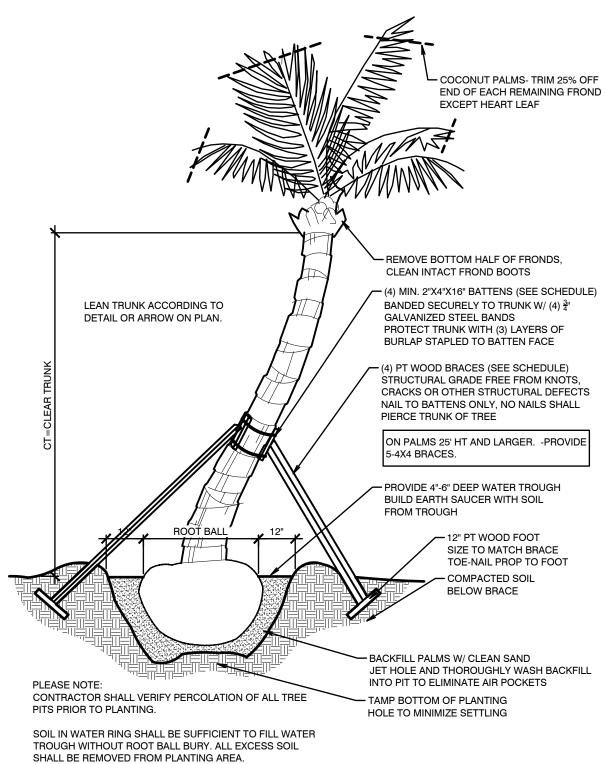




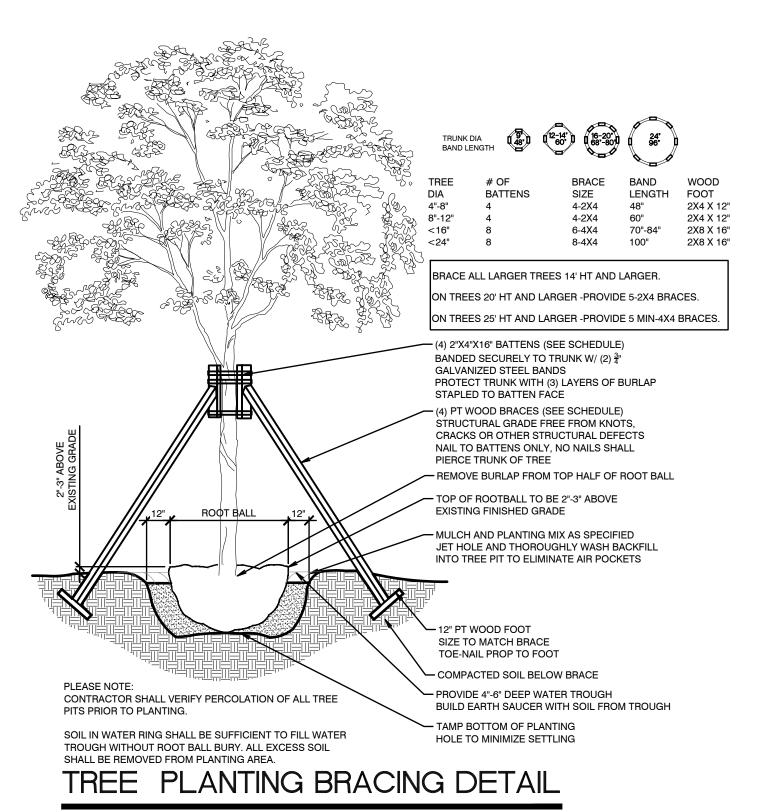
COMPLETELY REMOVE ALL SYNTHETIC MATERIALS

SHRUB/ GROUND COVER DETAIL





CURVED PALM PLANTING DETAIL



PER TAC COMMENTS 02/05/19

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> sheet name LANDSCAPE

sheet number ___

B. The work consists of furnishing all plants, materials, equipment, necessary specialties B. Drawings and/or in the Specifications.

C. Excavation, filling and grading required to establish elevations shown on the Drawings are not specified in this Section. Réfer to earthwork Section.

I.2 REFERENCE PUBLICATIONS The following standards form a part of the Specifications:

A. Florida Department of Agriculture "Grades and Standards for Nursery Plants", most recent edition.

B. American Joint Committee on Horticultural Nomenclature "Standardized Plant Names Dictionary"

The American Standard for Nursery Stock" (2004 edition).

D. American National Standards Institute-ANSI ANSI A300 and ANSI Z60. I-most recent edition.

Florida Friendly Best Management Practices for Protection of Water Resources by Green Industries, Florida Dept of Environmental Protection, Rev Dec 2008

F. IFAS -Institute of Food and Agricultural Sciences, University of Florida. http://hort.ufl.edu/woody/index.html 1.3 INSTALLER - CONTRACTOR QUALIFICATIONS:

A. The 'Contractor' shall be State licensed and regularly engaged in the installation of living plant material. Labor crews shall be controlled and directed by a landscape foreman professionally trained and well versed in landscape installation, plant materials, reading blueprints and coordination between the job and nursery and shall be able to B&B - field grown plant "balled and burlapped". communicate with the Owner and the Landscape Architect.

protect the Landscape Architect and Owner against all liabilities, claims or demands for injuries or damage to any person or property growing out of the performance of the work under this contract. All workers shall be covered by Workmen's Compensation

1.4 SUBMITTALS: Refer to schedule of submittals .5 COORDINATION

A. Coordinate and cooperate with other trades and contractors to enable the work to proceed as rapidly and efficiently as possible.

B. Irrigation work shall normally precede plant installation Install trees, large B&B material, shrubs and ground cover plants before lawns are installed.

installation or on the site as needed I.6 INSPECTION OF SITE: Prior to the award of the contract, the Contractor shall H. Container Grown Plants: Plants grown in containers will be accepted as "B&B", providing

the Landscape Architect or Owner for instructions as to further action. Failure to do so sizes. Minimum root balls of container grown material shall be no more than 25% less to discovery of such utilities not shown on Drawings

1.7 PROTECTION OF EXISTING PLANTS AND SITE CONDITIONS: A. The Contractor shall provide, install and maintain the of necessary precautions to

protect all persons and property, including the general public from harm or injury due to

B. The Contractor shall take precautions to protect existing site conditions. Should damage be incurred, the Contractor shall repair the damage to return the object or area to its original condition at no additional charge. C. Utility Locates - Regardless of utilities that may or may not be shown on the

drawings, the Contractor shall be responsible to have utilities located in the area of work before the work commences. The Contractor shall also verify and comply with any company.

delete any material or work as the work progresses. Adjustment to the Contract Sum weight, on an oven dried basis. Peat shall be delivered to the site in a workable condition loop. No chain, rope or unpadded webbing shall be used to handle trees and palms shall be approved by the Owner by a written Change Order, prior to execution. The free from lumps. Owner shall be given (2) week notice for the opportunity to review and approve all plant 2.5 WATER: materials delivered to the job site prior to installation. When unit prices have been A. established, they shall prevail for all Contract Additions. For Contract Reductions, the unless special provision is determined in the Contract Documents. to delivery of plant materials. If Owner changes are made prior to installation, Owner event the water source is not suitable, the Owner shall be given written notice of such at least D. Protection After Delivery: Plants which cannot be planted immediately on delivery shall receive a credit for labor to install plants, less costs associated with purchase and two weeks prior to the commencement of Work. delivery. The Landscape Architect assumes no financial or material responsibility for any changes made by, or on behalf of the the Owner. 1.9 OWNERS OBSERVATION:

A. The Landscape Architect or Owner assumes no responsibility for the Contractor's means and methods in the execution of this contract beyond the observation to ensure, to the Owner's satisfaction, that the Design Intent of the Drawings and Specifications are being properly interpreted. This observation and checking will not relieve the 183 Paradise Bvd, Suite 10B, Athens, Georgia, 30607 Contractor of any responsibility for the performance of his work in accordance with the Drawings and the Specifications (including proper planting practices or other material or A. Fertilizer and fertilization rates for the project shall be provided and applied based on damage are unacceptable performance deficiencies).

B. The Landscape Architect and Owner reserve the right to reject any portion of the recommendations. work, material or workmanship which does not conform to the Contract Documents and B. Commercial fertilizer shall be slow-release organic formulation containing nitrogen, Standard set forth herein.. Rejected work shall be removed and/or corrected by the phosphorus and potassium, not to exceed an analysis of 6-6-6. Nitrogen shall be not less marks on Sabal Palm trunks shall be removed. Collected or Field Dug Specimen Palms - All field

1.10 PROJECT CONDITIONS Architectural layouts, project/ area access, contractor equipment access, existing and fertilizer that becomes caked or otherwise damaged is unacceptable proposed utility locations, Irrigation Plans, Outdoor Lighting Plans, Paving Plans, Project C. Sequence and Timing plans, Town/HOA/ neighborhood requirements, etc.

hydrants of watering systems. Should such overhead or underground obstruction be expiration. Product that becomes caked or damaged is unacceptable and shall not be used. encountered which interferes with planting, the Landscape Architect shall be consulted for 2.8 MISCELLANEOUS LANDSCAPE MATERIALS consideration for alternate location's of plants to clear such obstructions. The Contractor A. Mulch: Shredded hardwood mulch -grade "A" -verify color. Mulch shall not contain shall be responsible for the immediate repair of any damage caused by his work.

C. After notice to proceed, the Contractor shall complete landscape work in a timely that will prevent its eventual decay. manner, as portions of site become available. Actual planting shall be performed only when Alternate Mulches: Pine Bark Nuggets - Jumbo size, Pine Straw weather and soil conditions are suitable in accordance with locally accepted practice.

the irrigation (sprinkler) installer, electrician, lighting installer, paving installer, and sod installer; Landscape installer shall coordinate to ensure that no plantings will interfere with the proper functioning of the sprinkler system. The Contractor shall be and shall be contained with gravel stops. It shall be a maximum of 1-1/2" (38.1 mm), a Vines shall be attached with copper wire to brass screws in lead anchors to walls. Make Irrigation installer situations where minor adjustment or relocation or addition of sprinkler minimum of 3/4" (19 mm) and of a readily-available natural gravel color range. heads may be most beneficial for the planting as a whole. The Location of specimen plant C. Braces, Battens and Stakes-Provide braces, battens, stakes and deadman of sound new C. materials, trees, palms and large shrubs shall prevail over irrigation head placement.

work and substantial completion exceeds 90 days (at no fault of the contractor). Early Stainless steel or galvanized banding. Stakes shall be pressure-treated 2x lumber and shall be hardpan, compacted soils, clay or rock are encountered, immediately notify Landscape Architect acceptance shall be contingent upon a satisfactory inspection of the completed landscape driven to within 2" of the surrounding grade. All exposed ground-stakes shall be painted with to determine remedial measures. work by the Landscape Architect and/or the Owner.

sufficiently complete; in accordance with the Contract Documents; all related clean-up has be placed within mulch beads and oriented away from walking areas. been performed; and the Landscape Architect's provide an opinion that the Owner can utilize D. Guys and Anchors: Provide one of the following: I) wire guys shall be two-strand, the work as intended.

except the Contractors responsibility to correct the work to the satisfaction of the Owner 1/2" (12.7 mm) dia.: 2) Woven Polyethylene Webbing -shall be min 2" wide. Trunks and stems F. All plants shall be handled and installed in accordance w/ the Construction Documents and the Landscape Architect. The Warranty Period and Maintenance period shall commence shall be wrapped at least twice and secured with adjustable knots. Stakes per Sec C. above. and best appropriate horticultural practice. Trees and shrubs, except as otherwise specified, upon Final Acceptance.

1.12 WARRANTY PERIOD and CORRECTION OF THE WORK:

except grass shall be alive and healthy, upright and in satisfactory growth for each specific at label rates, see 2.70 kind of plant. There shall be no signs of nutrient deficiency, disease or insect infestations. Replacement material shall be the same species, size and quality as called for in the Contract. at label rates, see 2.70. A new correction of the work period of twelve (12) months shall begin upon replacement and acceptance by the Landscape Architect of all replacement plants, this includes plants which are discovered at any time to have been planted at an improper depth

The installer shall repair damage to other plants or lawns that occurs during the plant replacement process at no cost to the Owner. D.' Plants which have been approved and subsequently die or are damaged by washout,

wind storm, traffic, vandalism, or demonstrable failure of the Owner to maintain after Substantial Completion of the Work is not covered in this correction of the work provision

2.0 PRODUCTS

normal position in palms.

I MATERIALS LIST A. Extent of landscape development work is shown on the Drawings and in the related A. Plant species and size shall conform with the Plant List and information noted on the

The quantities given in the Plant List are intended for the convenience and as a quide for and labor required for the installation of plant and other materials as shown on the the bidder and does not relieve the bidder of his responsibility to do a comprehensive plant B. take off from the Drawings. Information on the drawings control. 2.2 PLANT MATERIALS

All plant material shall be nursery grown unless otherwise noted. Plants shall be graded Florida No. I or better and shall be sized as outlined under Grades \$ Standards for Nursery Plants, State Plant Board of Florida. Coconut Palms shall be grown from certified seed. B. Collected material when specified or approved shall be in good health, free from

Landscape Architect and/or the Owner and shall be provided at no additional cost. C. Plants materials must equal or exceed the measurements specified in the plant list, which are the minimum acceptable sizes. Those plants specified as specimens are to be approved blading and leveling of open sod areas by the Landscape Architect before being brought to the site. Unless otherwise noted on the Finish grades of all planting areas shall be at 2" below pavement, after planting unless drawings, these plants shall be Florida Fancy.

D. Height of plant materials shall be measured from the top of the ball to the top of the plant with branches (or fronds) in normal position. Their width shall be measured across the normal spread of the branches (or fronds). In cluster type palms the main trunk shall meet the D. Top soils -The supply, placement and grading of Top soils shall be the responsibility of height requirement and all other trunks shall be 3/4 or more of the required height unless the Landscape Contractor unless other determined in the Construction Documents.

as possible to the satisfaction of the Landscape Architect Plants that meet the height requirements, specified, but do not have the normal balance of height and spread typical for the respective plant, shall not be accepted.

Abbreviations on the Drawings are as follows: Cal - caliper/diameter measured 6" (152.4 mm) above soil line. For trunks larger than 4"

B. The Contractor shall be licensed and shall carry any necessary insurance and shall (88.4 mm) diameter, the caliper measurement shall be determined at 12" above soil line. - clear trunk measurement from top of ball to first branching CW - clear wood, in palms the distance from soil line to lowest living frond leaf base.

DBH - caliper or diameter measured 4 feet (1.22 meters) above soil line GW - Greywood, in palms, mature trunk from ground to base of the green crown shaft. OA - overall height from top of ball to top of current season's growth or last open frond in

Spd - spread or average distance across the average diameter of plant branching structure. established root system and shall not be root bound. All plant materials not in containers shall be balled and burlapped and dug with a firm natural ball of earth. Balls shall be firmly wrapped with burlap or similar biodegradable materials and bound with twine, cord or wire fixtures or other work requiring excavation, must be installed before sod, stone mulch and C. Commencement of Work; Landscape Contractor shall notify Landscape Architect at mesh. The minimum ball sizes will be in accordance with "Grades \$ Standards for Nursery least 7 days in advance of scheduled commencement of work. Landscape Contractor Plants". No plant shall be accepted if the root ball has been cracked or broken. All containers shall review plans and/or field layouts with Landscape Architect at least 2 days prior to and root balls shall be kept moist at all times. All plants which cannot be planted immediately on delivery shall be kept moist and protected from drying winds and sun.

acquaint himself with all site conditions. Should utilities or other improvements not that all other specified requirements are met. Container grown plants shall meet plant sizes shown on the Drawings be found during excavations, Contractor shall promptly notify as specified on the plant list and on the Drawings, and shall not be governed by container will make Contractor liable for any and all damage arising from his operations subsequent proportionately than that stated in latest edition of Florida "Grades & Standards" for nursery plants. Plants shall have been grown in the container for a max. of 2 years prior to installation $\,$ $\,$ and shall exhibit a fully developed root system throughout when removed from container. There shall be no girdling or circling roots exceeding 50% of the pot circumference.

Substitution: Plant substitution by the Contractor will be considered by Landscape Architect only upon submission of proof that the plant is not obtainable in the type and size A. Root Protection: All field grown trees, palms and plants shall be hand dug with sharp specified. Should the specified plant indeed not be available, the Landscape Architect shall determine the nearest equivalent replacement in an obtainable size and variety. The unit price of the substitute item shall not exceed the bid item replaced, without owner approval. 3 PLANTING SOIL: Planting soil shall be free draining, sandy loam and shall contain a 5%

minimum and a 15% maximum amount of decomposed organic matter. Planting soil shall be free of clay, stones, plants, roots, and other foreign materials which might be a hindrance to planting operations or be detrimental to good plant growth. It shall have a pH between 6.0 requirements or clearances to plant materials that may be required of any Utility and 7.0. Soil shall be delivered in a loose friable condition and applied in accordance with the plantınq specifications. 1.8 CHANGES IN THE WORK: The Owner reserves the right to substitute, add or 2.4 PEAT: Horticultural peat composed of not less than 60% decomposed organic matter by

Clean Water for planting will be available at the site and shall be provided by the Owner Owner shall receive full credit, based on unit pricing, if changes are implemented prior B. Contractor shall determine the source and suitability of the Owner's water. In the

> 2.6 SOIL TESTING: Landscape Contractor shall provide testing of existing soils on Site for all soil types, including imported soils, in the planting area. No less than 2 representative samples shall be trench rows and maintained in healthy, moist condition until final installation. submitted to and tested by an independent professional testing lab for analysis and fertility

B. Soil Testing Lab - Call for Info, testing services, fees and Import permit. Micro-Macro International P 706-548-4557 F 706-548-489 I Web: www.mmilabs.com

COMMERCIAL FERTILIZER and PLANTING AMENDMENTS

Contractor, at his own expense, at the earliest possible time and prior to final payment. than 50% water insoluble., inorganic nitrogen and shall not be derived from the sodium form dug palms, (except-Adonidia, Cocos, Phoenix, Washingtonia, Ptychosperma, Hyophorbe sp.) palms of nitrate. Iron shall be in the chelated form, not be less than 2% and magnesium shall not be shall be root pruned for 2 months in advance of being lifted and moved. All palms shall be A. Familiarization with Overall Project Requirements: The Contractor shall review and less than 2%. Fertilizers shall be delivered to the site unopened in original containers, each become familiar with the Design and Overall intent of the proposed Work related to the bearing the manufacturer's ingredients and quaranteed analysis. Submit a copy of the Contractor's Work including but not limited to: Civil engineering and Drainage Plans, Manufacturer's quaranteed analysis and proof of delivery to the Landscape Architect. Any

Microbial Additives: Mycorrhizal and microbial additives shall provided as specified in the Schedule of Soil amendments.Contractor shall submit a copy of the manufacturer's label/ 3.3 PLANTING OPERATIONS: Obstructions: The Contractor shall exercise care in digging and other work so as not product use instructions that include: all ingredients, guaranteed analysis and application A. Layout: The location for plants and outlines of areas to be planted are indicated on the to damage existing work, including underground pipes, sprinklers, control cables and rates. All supplements shall be supplied in fresh, unopened packaging prior to product Drawings. All plant locations shall be laid out, painted/flagged in field by the Contractor, to the

Gravel Mulch: Provide samples of all gravels to Landscape Architect for approval prior Contractor shall coordinate landscape and planting work with other trades, such as, to ordering. Gravel shall be used only where specifically indicated on the plans of the size and B

pressure-treated lumber, free of knot holes and other defects. Braces shall be pressure-treated 2x lumber (4x lumber where appropriate) and shall be secured to battens (609.6 mm) greater than the root ball, whichever is smaller. The depth of a hole shall not be A. At the discretion of the Owner, early acceptance of the work may be obtained for 'and stakes with a min of (2) -16D, dbl head galv. forming nails. Battens shall be 2x4 pressure progress payment of approved phases; or when the time between commencement of the treated lumber and padded with burlap. Battens shall be secured to tree trunks with 3/4"

a high-visibility, contrasting, fluorescent paint until substantial completion. Braces and stakes E. Backfill and Soil Amendments-Backfill shall be clean,fine,granular loamy soil unless Substantial Completion of the Work is the point in construction when the Work is shall be repainted a dark walnut brown stain unless otherwise noted. Stakes and braces shall otherwise noted. All palms shall be backfilled w/ clean, washed, salt-free sand. Clumpy or

C. Final Completion is the completion of all work included in the Contract Documents required lengths to protect tree trunks from damage by wires. Hose shall be not less than rates of soil mix apply; 1/2 cubic yard per tree and I cubic yard per 50 shrubs. A. For a period of twelve months from the date of acceptance, all new plant materials manure per cubic yard (.76455 cubic meters). Mix in Osmocote fertilizer and micro-organisms

F. Planter Soil Mixture:a loose, friable blend consisting of:5 parts coarse sand, 2 parts peat Plants which are rejected shall be replaced or corrected within two weeks of rejection. humus or bagged topsoil and 3 parts pinebark; Mix in Osmocote fertilizer and microorganisms burlap, rope, wires, etc. from any trunk and top surface of balls. Do not remove burlap from

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3.U EXECUTION

3.1 PREPARATION. SITE WORK AND COORDINATION: Grading: Contractor shall inspect the site to verify that finish grades (accurate within 2" (5 I mm), have been established in accordance with Civil Engineer's Drainage Plan and the Landscape Architect's shaping and grading Plan or other job requirements prior to beginning any planting operations. Coordinate with Landscape Architect and General Contractor for release of areas before planting operations begin

B. Rough Grading and Shaping - Rough grading and bulk filling of site shall be the general responsibility of the General Contractor unless otherwise noted. Rough grade shall include placement and distribution of bulk fill material sufficient to generally be within -4" of final grade for landscape and within -2" of final grade for sod areas. Rough grades shall conform with the general intent of the drainage and grading plans. Rough grades may be field adjusted to allow for fill as generated by planting activities.

C. Finish Grading - Finish and final grading shall be reviewed, approved and released b disease, insect or weed infestation. Testing may be required at the discretion of the Landscape Architect or authorized Project Manager. Landscape Contractor shall notify LAV Project Manager, in writing, 3 days before planting work in a given area is expected to commence. Finish Grades are the responsibility of the Landscape Contractor -including box

> otherwise noted. Finish grades shall include any top soil and soil amendments as specified. If at any time the sub-grades are determined to be inadequate for proper design, the Project Manager should be given notification in writing.

otherwise noted on the drawings. Where symmetry is required, match plants used as nearly E. Irrigation-The Landscape Contractor shall closely coordinate with the Irrigation installer. Irrigation system shall be installed according to Irrigation Plans and Specifications with any necessary field adjustments to complement the Landscaping Plans. Spray zones for sod and planted areas as described shall have 105% head to head coverage, matched precipitation rates and uniform water distribution with equipment as outlined. Drip emitters shall be installed per schedule. Drip and spray irrigation shall be fully operational and accepted before any mulch, stone, short ground covers or sod are installed. Irrigation zones shall be operating and accepted by Landscape Architect and/or irrigation designer before areas will be released for finish planting and/ or mulching as noted above. In the event of conflicts with landscaping and irrigation pipes or emitters, the location of trees, palms, large shrubs and specimens shall prevail. Pipes and emitters shall be relocated/adjusted to eliminate conflict and allow for the proper function of equipment.

Landscape Lighting - The Landscape Contractor shall closely coordinate with the ighting installer. Outdoor and site lighting system shall be installed according to the Lighting. Plăns and Specifications with any necessary field adjustments to complement the Landscaping Root packaging and Containers: Plant materials in containers shall have a well Plans. Landscape lighting conduit shall be coordinated and installed in conjunction with irrigation trenching where ever suitable. Lighting conduit shall be installed and/or adjust AFTER major trees and palms are installed and before shrubs/ground covers are installed. In-ground landscape mulch are installed. Lighting stub-ups/placements shall be reviewed approved and released by Landscape Architect before mulch, stone, ground covers or sod are installed.

Mulch, Edging and Stone Mulch-Before mulch of any kind is installed, Finish Grading, Operational Irrigation, Lighting conduit, in-ground fixtures and metal edging shall be in place and accepted and released by either Landscape Architect or General Contractor.

H. Sod - Before sod of any kind will be installed, Finish Grading, Operational Irrigation, Lighting conduit, in-ground fixtures, metal edging and mulch shall be in place and accepted and accepted by Landscape Architect. As noted above, landscape contractor is responsible for all fine grading subject to review and acceptance by Landscape Architect, before sod is installed. Removal of Rubbish: Any objectionable materials, such as stones/construction debris be encountered during planting operations, they shall be promptly removed from the site by the ndscape ınstaller

3.2 PROTECTION OF PLANTS: shovels or approved tree-spade. Backhoe-dug trees shall not be accepted. Roots shall be cleanly cut with sharp instruments. Balled and burlapped plants: plants designated "B&B" shall be dug with firm, moist earth of sufficient diameter and depth to encompass the fibrous and feeding root system, necessary for full recovery of plant. Balls shall be firmly wrapped with burlap or similar materials and bound with twine, cord, or wire mesh. All collected plants shall be "B&B".Trees, palms and plants shall not be dug during periods of excessive heat or drought unless supplemental water is applied for at least 5-7 days in advance.

B. Handling -containerized plants shall be handled by their container w/ proper support iven to all parts of plant to prevent damage. Trees and palms shall only be handled w/ padded slings rated for IOx the weight of carried load. Trunks shall be wrapped min. 2X prior to cinch

Protection' During Transporting: All plant material shall be protected from possible injury or breakage of branches. Provide all necessary splints, stakes, kraft paper wrapping and sleeves to secure and protect roots, stems and foliage of plant materials during shipment. All plants transported by open trucks or sea-containers shall be adequately covered to prevent windburn, drying or damage to plants.

the site shall be kept moist at all times and provided protection from the drying of wind and sun. All plants shall be kept moist as necessary until planted. Storage period shall not exceed 72 hours. In plants cannot be installed within 48 hours, they shall be 'heeled-in" earth

Protection of Palms: A minimum number of fronds shall be removed from the crown of palm trees to facilitate moving/handling. Remaining fronds shall be tied and braced if required. Protection During Planting: Trees moved by winch or crane shall be thoroughly protected from chain marks, girdling or bark slippage by means of burlap, padding, wood battens or other approved methods.

Plants that show symptoms of bark compression, girdling or bark slippage or other

the results of the soils test. Follow all Manufacturer's Label Rates and application H. Special Treatment and Handling: Sabal Palms (Cabbage Palms) shall be "hurricane cut" in the field prior to transport. Clear trunk shall be as specified after the minimum nuber of fronds have bee'n removed. Sabal Palms shall be taken from moist, "black" growing areas. All burn watered for I week prior to digging in the field. Heads shall have the lower 50% of fronds removed or as otherwise determined by Supplier. Heads shall be securely tied and secured before transporting. Heads shall remain tied-up until new root growth is visible or as otherwise de'termined by Supplier. All Palms shall'have heads tied and braced during shipping \$ handling. Canary Date Palm's shall have heads securely stabilized with 4x4 bud splints

satisfaction of the Landscape Architect before planting operations commence. In general, all trees, palms and accent plants shall be laid out, planted and approved by the Landscape Architect prior to the layout of shrubs/ground covers. Notify Landscape Architect and Owner chunks larger than I inch (25.4 mm) in diameter, branches, stones or other foreign material for directions if site conditions requires the addition of soil over existing roots or where construction or utilities below ground or overhead are encountered, or where changes have been made in the construction - DO NOT PROCEED - Any necessary adjustments will be directed by the Landscape Architect.

Clearances: Shrub/hedge material shall be planted a min. of 30" (0.75 m) away from wall type shown. Unless otherwise specified it shall be water-worn, hard, durable gravel, washed or other obstructions (including parking stops). Groundcover (I gal or less) material (except free of loam, sand, clay and other foreign substances. It shall be a minimum of 2" (44.2 mm) sod) shall be planted 16" (10.41 m) away from pavement or edging unless otherwise noted. minor adjustments as may be required.

All planting holes shall have straight, vertical sides and flat horizontal bottoms. The diameter of a hole shall not be less than twice the diameter of the root ball or 24 inches deeper than the root ball. The bottoms of planting holes shall be tamped to minimize settling. Contractor shall confirm that all planting holes are free draining and percolate water. If

rocky soils shall be screened or replaced w/ appropriate material prior to backfilling. Refer to soil report recommendation for fertilizer type/rates. Additionally, Mycorrhizae and soil bacteria twisted, pliable galvanized iron wire not lighter than 12 gauge. Provide new hose cut to shall be added at the manufacturer's recommended rates (see 2.7c). The following minimum

Soil Mix for Annual or seasonal color beds: 2 parts top soil, I part fine pine bark mulch shall be set in the proper size of planting pit so that the top surface of the Root Collar/root (1/2" (12.7 mm) pieces), I part coarse sand and 50 pounds (1.8662 kg) composted cow ball will be 1"-2" above the final grade. Verify adequate percolation of the planting hole. Set plants straight and plumb unless otherwise noted. Select trees, palms and accents shall be eaned, oriented or faced as determined by Landscape Architect or as shown on the drawings. B&B plants are set with bottom 1/3 of planting pit backfilled w/ existing site soil. Remove underneath. All remaining wrapping material shall be biodegradable. No material shall encircle the trunk. Complete backfilling w/ native soil (or specified soil mix) and water thoroughly to remove voids. After planting has been completed, form a trough around each plant extending to the limits of the pit. Some wire wrapping and bundling may remain to maintain the integrity of the root ball. Review removal requirements in advance with the Landscape Architect.

H. Container Grown Plants: Shall, when delivered, have sufficient root growth to hold earth intact when removed from container and shall not be root bound. Plant pits for container materials shall be formed flat on the bottom to avoid air pockets at the bottom of root balls. Containers shall be removed carefully to prevent damage to plant or root system.

3.0 EXECUTION CONT

. Remediation of Root defects - The Contractor shall inspect all plant material for root defects including but not limited to: root-bound containers; circling roots; girdling roots; sub grade, embedded root collars; adventitious roots; etc. All Root Collars shall be exposed and visible at the time of planting. Plants with two (2) or more girdling roots; plants from root-bound containers; or plants with circling roots greater than 75% of the pot circumference shall be rejected and replaced at the Contractor's expense. Plants with minor root defects shall be rimmed with clean, sanitized, sharp tools according to proper horticultural practice prior to planting. Plants shall be well watered prior to, and after, root trimming procedures. Plants that die as a result of root pruning are considered excessively defective and shall be replaced at Contractor's expense

External Circling Roots - shear off outer 1"-2" of rootball circumference

nternal Circling Roots - radial cuts to interrupt circle, remove 2" min section of root. Girdling Roots-cut and remove the 2" min section of the girdling root at the surface. Root Knots - trim or remove. For more information - refer to University of Florida - IFAS Website http://hort.ufl.edu/woody/index.html For Root management -Refer to http://hort.ufl.edu/woody/roots.html

. Setting Trees and Shrubs: Unless otherwise specified, all trees and shrubs shall be planted in pits, centered to such depths that the finished grade level of the Root Collar, after settlement, shall be the same as, or slightly above, that at which the plant was originally grown. They shall be planted upright and faced to give the best appearance or relationship to adjacent structures. The Contractor shall be responsible to raise and re-set all plant materials where root collars are found below finish grade at their own expense.

Along slopes, a soil terrace shall be formed so that the top of the Root Collar is level with existing grade on the up-slope side. No burlap shall be pulled out from under the balls. Tree boxes, platforms, wire, lifting loops and surplus binding from top and sides of the balls, shall be removed. Some wire or binding may remain if tight and necessary for rootball integrity. Any broken and frayed roots shall be cut off cleanly. Backfill soil shall be placed and tamped thoroughly and shall be settled by watering. No filling around trunks or on top of root balls will be permitted. After the backfill settles, additional soil shall be filled in to the level of the finished grade allowing for 2" (44.1 mm) of mulch. Form a shallow saucer around each plant by digging a rough of soil along the edge of the plant pit. This trough shall be 3"-4" (75 mm) deep. Spečimen trees and Palms shall be equipped with supplemental irrigation (bubblers) K. Setting Palms: All palms shall be planted in sand thoroughly washed in during planting operations and with a shallow saucer depression left at the soil line for future watering Backfilling: When the plant pit has been excavated as specified above and the plant has been

for water retention. Tops of all rootballs shall be left exposed and free of soil backfill materials. Do not distribute any excess soil in any existing planted bed M. Pruning: Remove dead/broken branches from all plant material. Thin out internal branching and prune to retain typ. growth habit of individual species with as much height and spread as is practicable. Make all pruning cuts with a sharp instrument next to branch collar to ensure

elimination of stubs. Headback" or "Hat Rack" cuts, right angle to line of growth, will not be

set, the pit shall be backfilled with clean soil mix. All backfill shall be watered thoroughly to settle

and consolidate soil and eliminate voids. Provide a shall trough around the outside of the rootball

. Guyıng and Stakıng: Guy and stake all trees, ıncludıng palms, ımmedıately after plantıng. rees less than I 1/2" (38. I mm) in caliper shall be staked with vertical wood or metal stakes along the trunk. Stake shall be driven through the root ball and embed 12" min. into sub-grade. Attach tree trunk to the stake with 3/4" width elastic pruning tape. Double wrap trunk to avoid chaffing. Tie firmly, but not tightly to the stake. Stake shall be cut off at least 12" below the top of the plant. Trees 1 1/2" (38.1 mm) in caliper and greater but less than 12' OA shall be guyed n 3 directions with double strands of No. 12 galvanized wire (or rated woven polyethylene webbing) attached to approved stakes or anchors driven flush with grade. When securing wires to trees, cover all wires which may come in contact with any part of tree with new rubber hose. Place guys and braces not less than 1/3 of the height of tree above finished grade and above substantial limbs I inch (25.4 mm) in diameter or more. Ground Stakes shall be clearly marked with nigh contrast fluorescent paint. Trees over 12'OA shall be braced with new lumber per staking detail. Provide stained where noted. Ground Stakes shall be clearly marked with high contrast

O. Staking and Bracing: When staking palms and broadleaf trees, no nails or fasteners shall directly penetrate the trunks. Wood battens: 12" -16" min(304-406 mm) min. length; separated from trunk by burlap; attached to the trunk of the trees with galvanized or stainless steel metal banding. Stakes and braces shall be clearly marked and can only be nailed to the wooden battens. Alternate methods of guying or staking may be employed with the prior approval by Landscape Architect. Ground Stakes shall be clearly marked w/ high contrast fluorescent paint. P. Mulching: All trees and shrub beds shall be mulched immediately after acceptance of the planting bed by the Landscape Architect. Mulch shall be applied to a 3" (76.2 mm) depth, with a mulch as specified. Prevent wind displacement of mulch by thoroughly wetting down. Do not apply any mulch against stems and trunks of plants.

Q. Annual/seasonal color beds: Remove 8" to 10" (254 mm) of soil and replace with planting soil mixture consisting of Annual Planting Soil Mix per Section 2.8.E. Install annuals in fresh mix. R. Planters:Includes free-standing pots and built-in architectural planters. Verify waterproofing and drainage to suitable outfall. Place filtration/ separation fabric over 4" drain gravel in the pottom of the pot. Add planting soil mix per Section 2.8.F. Place soil around plant materials in ahtly compacted layers to an ělevation 2 inches (38.1 mm) below top of planters allowing for nătural settlement. Recommend 6"-8" min depth of soil below rootball. S. Disposal of Excess Excavated Soil: Excess soil, raked debris and rocks shall be removed and

disposed by the Contractor to a suitable and legal disposal location off-site, at no additional expense to the Owner 'Relocation of Existing Material: Landscape contractor shall root prune trees which are to be

relocated in accordance with approved horticultural practices. The relocated plant shall have foliage reduced and be provided with supplemental irrigation to the remaining leaf surface. Coordinate with Landscape Architect for relocation requirements.

Sod shall be as spec'd on Dwgs. Sodded area shall be all areas not otherwise noted and include adjacent public yards beyond the property line to edge of pavement and/or edge of Fine Grading & Drainage: The Contractor shall verify drainage surface drainage flows and

shaping in accordance with the Civil Drawings and the Grading plans. Contractor shall be responsible for providing and maintaining positive drainage flows away from all building and pavements to the appropriate discharge or collection points Topsoil shall be leveled and spread to a depth of 3"-4" min. No sod shall be laid until the depth of the soil has been approved. Grade shall be adjusted to create a smooth transition

between new and existing sod areas. All sod areas shall be fine graded and raked, eliminating bumps, depressions, sticks, stones and other debris greater than 1/2" dia, to the satisfaction of the Landscape Architect, prior to the installation of sod. Sod Quantities: Any quantities shown on the Drawings or given in the Plant List are intended for the convenience and as a guide for the bidder and does not relieve the bidder of his responsibility to do a $^{\circ}$ comprehensive quantity take off (measurement) from the Drawings or in the field. Contractor shall be responsible for sodding all areas as noted on drawings. Contractor shall verify all final sod quantities in the

field prior to ordering, including any necessary adjustments for shrinkage/coverage variables. Sod Quality: Sod shall be graded #1 or better. Sod shall be loam-grown w/ a firm, full texture and good root development. Sod shall be thick, healthy and free from defects and debris including but not limited to dead thatch, insects, fungus, diseases and contamination by weeds, other grass varieties or objectionable plant material. Sod pièces shall be 16" x 24" min. size in unbroken, cohesive sections or furnished in an otherwise

Before being cut and lifted, sod shall have been regularly watered and mown at least 3 times w/ a lawn mower, w/ final mowing not more than 7 days before sod is out. Sod shall be delivered and installed in green, healthy, viable condition. Yellow, Brown or cessively wilted sod shall not be accepted

Sod shall be laid w/closely abutting joints w/a tamped or rolled, even surface. The Contractor shall bring the sod edge in a neat, clean manner to edge of all paving and shrub areas. Clear circular areas shall be provided around all free-standing trees in open soldded areas. If, in the opinion of the Landscape Architect, top-dressing is necessary after rolling, clean sand will be evenly applied over entire surface and thoroughly washed in w/o addit'l charge

Sod along slopes shall be pegged to hold sod in place along slopes/banks. A wood peg acceptable to the Landscape Architect shall be used at no addit'l cost to Owner.

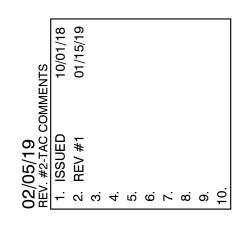
Sweep and wash all walls and paved surtaces. Remove planting debris from project site daily. Ensure all plant material is free of damaged branches, aging tape and other temporary materials.

Lawn areas damaged by planting operations shall be resodded to original condition. Walks, drainage pipes or other structures damaged by this Contractor shall be repaired to original

Remove soil ridges around watering basins prior to end of maintenance period. .6 MAINTENANCE DURING CONTRACT PERÍOD The Contractor's maintenance shall include watering, pruning, spraying, weeding, mowing, insect

treatment, disease treatment, micro organisms applications and other necessary maintenance operations to create a healthy, vigorous landscape. The Contractor assumes responsibility for all maintenance during the construction period, beginning immediately after each item is planted and to continue until final inspection and acceptance. Areas completed under "Early Acceptance" of the work or approved phases of the work shall be maintained for an addut 90

days or until final acceptance of work, which ever occurs first. The Contractor shall replace unhealthy, damaged or dead plants promptly. Contractor shall be responsible for costs to provide access to unacceptable plants identified during the Contract period. The Contractor shall Inspect plants at least once a week and perform maintenance promptly. Keep planting saucers and beds free of weeds, grass, and other undesirable vegetation growth.



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