

LEGEND

- EXISTING TREES TO BE REMOVED
- EXISTING TREES TO REMAIN
- EXISTING PALMS TO REMAIN
- EXISTING TREES TO BE RELOCATED
- NEW LOCATION OF RELOCATED TREES
- PROPOSED PALMS
- PROPOSED TREES

EXISTING TREE LIST

SYM	TREE TYPE	DESCRIPTION	STATUS
A	<i>Coccoloba creata</i> /Green Buttonwood	25' ht. x 25' apr. 30" cal. raked for overhead powerlines	remove
B	<i>Quintenia mahagoni</i> /Mahogany	30' ht. x 30' apr. 20" cal.	remove
C	Sabal palmetto/Cabbage Palm	18' o.a. ht. to overhead powerlines)	remain
D	<i>Coccoloba uvifera</i> /Seagrape	25' ht. x 25' apr. multi trunk	remove
E	<i>Coccoloba uvifera</i> /Seagrape	30' ht. x 40' apr. multi trunk	remove

project:
202 se 4 ave

delray beach, fl

dave bodker
landscape architecture/planning inc.

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delray beach, florida 33445
561-276-6311

#LA000999

sheet title:

**existing tree
plan**

project number:
919

date: 01/23/2019
scale: 1" = 10'
drawn by: lmb

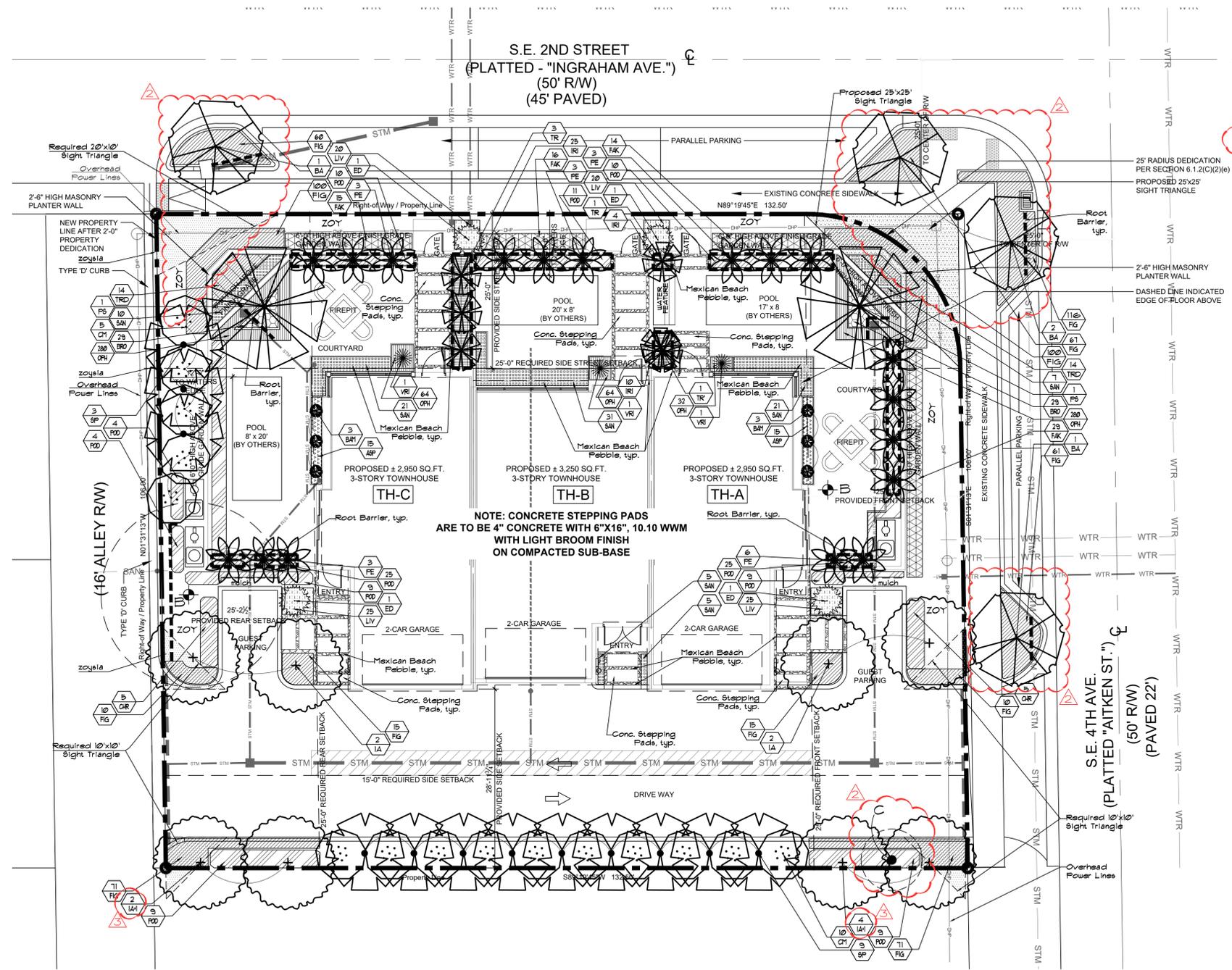
revisions:

- 6-14-2019
- 9-10-2019
- 10-01-2019 city comments

sheet:



L-1



SYM	BOTANICAL/COMMON NAME	SPECIFICATIONS	QTY	NATIVE *
BA	Bulnesia arborea Verigoo	14' ht. x 8' spr, 3" cal. 6' ct.	4	
CH	Carysta mitis Flattail Palm	16' ht. x 8' spr, f/b	15	
ED	Elaeocarpus oleocarpus Japanese Blueberry	6' ht. x 3' spr, conical	4	
IA	Ilex x attenuata East Palatka Holly	20' ht. x 6' spr, 4" cal.	4	*
IA	Ilex x attenuata East Palatka Holly	16' ht. x 6' spr, 3" cal.	4	*
FE	Ptychosperma elegans Solitaire Palm	14-16' o.a. ht., matched	18	
PS	Phoenix sylvestris Sylvester Date Palm	12' ct., matched	2	
SP	Sabal palmetto Sabal Palm	26' o.a. ht., 16' ct., matched	12	*
TR	Trinax radiata Florida Thatch Palm	10' o.a. ht., 1' ct.	4	*
TR	Trinax radiata Double Florida Thatch Palm	10' o.a. ht., 1' ct., double trunk	1	*
ASP	Aspidistra elatior Cast Iron Plant	18" ht. x 12" spr, 18" o.c.	30	
BAM	Bambusa chungii Tropical Blue Bamboo	12' ht., 5 stem	6	
BRO	Neoregelia 'Charisma' Charisma Bromeliad	12" ht. x 12" spr, 12" o.c.	58	
CHR	Chrysothamnus icaco Cocoplum	24" ht. x 24" spr, 24" o.c.	10	*
FAK	Tripsacum dactyloides Fakahatchee Grass	24" ht. x 24" spr, 24" o.c.	74	*
FIG	Ficus microcarpa Green Island Ficus	10" ht. x 10" spr, 12" o.c.	636	
IRI	Iris virginica Blue Flag Iris	18" ht. x 18" spr, 18" o.c.	39	*
LIV	Liriope muscari 'Variegata' Variegated Liriope	12" ht. x 12" spr, 12" o.c.	90	
OPH	Ophiopogon japonicus Mondo Grass	5" ht. x 5" spr, 6" o.c.	720	
FOD	Podocarpus macrophyllus Podocarpus	4' ht. x 2' spr, 2" o.c.	125	
SAN	Sansevieria trifasciata laurentii Variegated Sansevieria	18" ht. x 18" spr, 18" o.c.	100	
TRD	Trachelospermum asiaticum 'Minima' Dwarf Asian Jasmine	5" ht. x 12" spr, 12" o.c.	28	
VRI	Vriesea imperialis Imperial Bromeliad	3' ht. x 3' spr.	3	
ZOY	Zoysia empire japonica Empire Japonica Zoysia	full, fresh sod	as req'd	
	Mexican Beach Pebble	1-2" dia.	3" layer	
	Root Barrier	36" ht. hung vertically	as req'd	

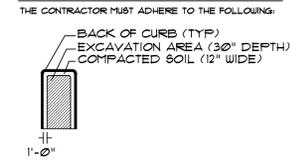
* ALL MULCH TO BE BLACK MULCH

CODE DATA

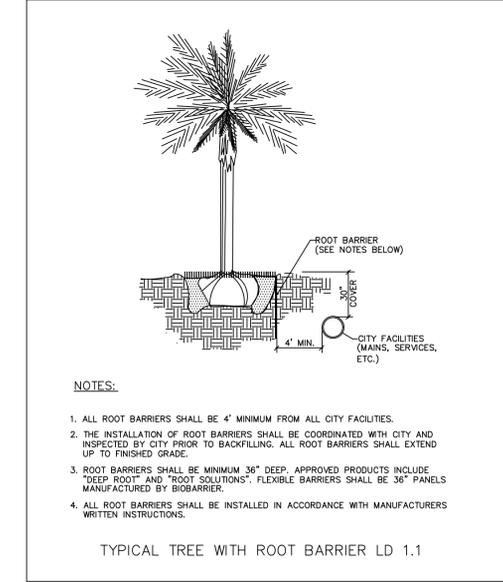
A	TOTAL LOT AREA	13,832 SF.
B	STRUCTURES, PARKING, WALKWAYS, DRIVES, ETC.	9,815 SF.
C	TOTAL PERVIOUS LOT AREA	4,017 SF.
D	AREA OF SHRUBS AND GROUND COVERS REQUIRED	1206 SF.
E	AREA OF SHRUBS AND GROUND COVERS PROVIDED	2,971 SF.
F	NATIVE VEGETATION REQUIRED	302 SF.
G	NATIVE VEGETATION PROVIDED	580 SF.
H	TOTAL PAVED VEHICULAR USE AREA	3,445 SF.
I	TOTAL INTERIOR LANDSCAPE AREA REQUIRED	1 x (4 x 10)
J	TOTAL INTERIOR LANDSCAPE AREA PROVIDED	468 SF.
K	TOTAL INTERIOR SHADE TREES REQUIRED	K + (1/25 SF.)
L	TOTAL INTERIOR SHADE TREES PROVIDED	3 TREES
M	TOTAL LINEAR FEET SURROUNDING PARKING OR VEHICULAR USE AREAS	171 L.F.
N	TOTAL NUMBER OF PERIMETER TREES REQUIRED	N + (1/25) IF ADJACENT TO PROPERTY IN RESIDENTIAL USE
O	TOTAL NUMBER OF PERIMETER TREES PROVIDED	8 TREES
P	TOTAL NUMBER OF EXISTING TREES TO BE SAVED ON SITE	1 TREE
Q	TOTAL NUMBER OF NATIVE TREES REQUIRED	Q + ((K + N) x 50)
R	TOTAL NUMBER OF NATIVE TREES PROVIDED	1 EXISTING 14 PROPOSED
S	TOTAL NUMBER OF TREES ON PLAN PROVIDED	1 EXISTING 22 PROPOSED

PLANT MATERIAL SHALL BE FLORIDA #1 GRADE OR BETTER.
#1 SHALL BE APPLIED TO A MINIMUM DEPTH OF THREE (3) INCHES IN ALL PLANTING BEDS.
PROHIBITED PLANT SPECIES SHALL BE ERADICATED FROM THE SITE.
LANDSCAPE AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM, AUTOMATICALLY OPERATED, PROVIDE COMPLETE COVERAGE TO ALL PLANT MATERIALS AND GRASS, AND IRRIGATION SHALL BE PROVIDED WITHIN THE UNPAVED PORTION OF THE RIGHT-OF-WAY ACENT TO THE PROPERTY LINE.
IF (3) PALMS ARE EQUIVALENT TO ONE (1) SHADE TREE.
TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO CITY OF DELRAY BEACH STANDARD DETAILS, LD 11 & LD 12.

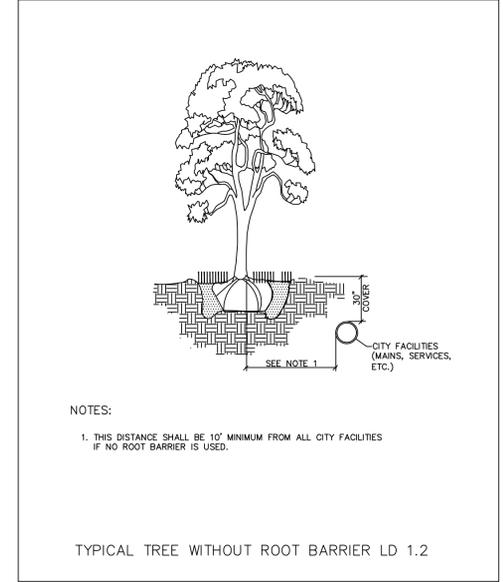
EXCAVATION DETAIL



NOTE: ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS, LD 11 & LD 12.



- NOTES:
1. ALL ROOT BARRIERS SHALL BE 4" MINIMUM FROM ALL CITY FACILITIES.
 2. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH CITY AND INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.
 3. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BOBARRIER.
 4. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.



- NOTES:
1. THIS DISTANCE SHALL BE 10" MINIMUM FROM ALL CITY FACILITIES IF NO ROOT BARRIER IS USED.

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planting plan

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- △
- △

sheet:

L-2



Applicable Documents:

A. These Specifications and the requirements hereinafter will govern the project during the installation, guarantee and maintenance period.

Scope of Work:
The work specified by the Section of the Specifications and in the Plans consists of furnishing all labor, machinery, tools, apparatus, means of transportation, supplies, materials, equipment, materials, services and incidentals necessary to complete the work as indicated on the Plans and in the Specifications, as set forth in the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants, Part 1 and Part 2" as follows:

B. The work shall include, but not be limited to, furnishing materials, roots, pruning where required, layout, protection to the public, excavation, installation, backfilling, grading, fertilizing, watering, staking and tagging where required, watering, pruning where required, soil installation, seeding, cleanup, maintenance and guarantee.

C. Quantities and Location: The Landscape Architect reserves the right to adjust the nature and location of any of the designated types and species to be used at any of the locations shown in order to provide for any modifications which might be necessary.

D. Investigation of Subsurface Condition: The Contractor shall be responsible for making site surface investigations and detection as to the choice in order to become familiar with the character of the existing natural and the construction conditions under which he is to do the work. These subsurface investigations and examinations shall be included in the bid. The Contractor shall not receive any additional compensation.

E. The Landscape Contractor shall be paid for only those units that are installed at the time of request for payment. The contractor unit prices shall be the basis for bid payment. The final amount of payment may be reduced if the amount of the contract depending on the number of units installed.

F. Ten percent (10%) of the total contract price will be held as retention for 90 days after final unit acceptance.

G. The Landscape Architect will coordinate his work with all other trades at the job site.

Quality Assurance:

A. The Landscape Architect may inspect trees, shrubs, and groundcover either at the place of growth or at the site before planting for compliance with the requirements for name, variety, size and quality. The Landscape Architect retains the right to further inspect trees and shrubs for size and condition of balls and root system, wounds, injuries and insect damage, and to reject unsatisfactory or defective material at any time during the progress of work. The Landscape Contractor shall remove rejected or defective units within 1 day from the project site.

B. Responsibility for Aiming Quality Work:

(1) The Contractor's Superintendents shall speak English and be well versed in Florida plant material, planting operations, Plans and Specification Interpretation, coordination with other contractors or service in the project area and coordination between the nursery and the project.

(2) All employees shall be competent and highly skilled in their particular job in order to properly perform the work assigned to them. The Contractor shall be responsible for maintaining the quality of the material on the project.

(3) The Contractor shall comply with applicable Federal, State, County and local requirements governing landscape materials and work.

C. Grade Standards:

(1) Plant material shall be Florida "A" better as set forth in the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants, Part 1 and Part 2" as follows:

(2) All plant material will be subject to the Nursery Plant Inspection Program for quality assurance. Plants lacking the components or proper proportions, plants which are weak or thin, and plants injured by close planting in nursery rows will not be accepted. Plant material which has been cut back from larger grades to meet certain specification requirements will be rejected.

(3) Plant material shall have normal, well developed branches and shall be vigorous plants, free from defects, decay, stems, disfiguring roots, external injuries, abrasion of the bark, plant diseases, insect pest eggs, larvae and all forms of infestation or objectionable disfigurements.

Delivery, Handling and Storage:

A. Delivery and Handling:

(1) Movement of nursery stock shall comply with all Federal, State, and local law, regulations, ordinances, codes, etc.

(2) Protect during delivery to prevent damage to root ball or destruction of leaves. Remove unacceptable plant material immediately from the job site. Plants and projects units stored at the site.

(3) Transport materials on vehicles large enough to allow plants to be loaded and unloaded without plants being covered to prevent wind damage during transit.

B. Bid:

(1) Deliver soil on pallets with root system protected from exposure to wind and sun. Deliver soil in quantities suitable for being installed within 48 hours of coating.

C. 4" Approvals:

A. Written request for approval to substitute a plant species or a plant designation (FDB, USDB, CO, etc.) type, grade, quality, size, quantity, etc. due to the non-availability of the material specified. Approval must be given by the Landscape Architect before the material is delivered and installed on the project. The Contractor must provide written proof that the specified plant material is unavailable.

B. Any request for the approval of an equal shall be in writing. Approval shall be given by the Landscape Architect before the material is delivered and installed on the project.

C. Submit three prints of shop drawings for any special conditions not covered in the details. This shall be for approval by the Landscape Architect before they are implemented in the project.

D. If requested by the Owner or Landscape Architect submit a schedule of all specimen plant material and collected plant material indicating the sources or suppliers of the material and their locations for approval by the Landscape Architect before they are delivered and installed on the project. Also, color photographs of each different item, showing different side views of the item shall be submitted with the schedule. Additional color photographs shall be submitted, if requested.

E. If requested by the Owner or Landscape Architect, submit a letter indicating the sources or suppliers of all soil and the grade to be applied for approval by the Landscape Architect before it is delivered and installed on the project.

Guarantee:

A. The guarantee shall not begin until the day that initial acceptance is given.

B. All soil shall be guaranteed for a minimum of 60 days from the time of final acceptance. All trees, plants, and shrubs are to be guaranteed for one year from the time of final acceptance.

C. The guarantee shall be null and void for plant material which is damaged or dies as a result of "Acts of God" listed in these Specifications and on the Plans or are not to be implemented, as well as if all other related conditions are not met in the Landscape Architect will approve all shop drawings of the project.

D. At the option of the Owner, and inspections may be made at the end of the guarantee period, but prior to the last day of the guarantee period.

Replacement:

A. The guaranteeing of a plant material shall be construed to mean the complete and immediate replacement of plant material within 3 calendar days if it is:

(1) Not in a healthy growing condition and thus renders it below the minimum quality indicated in the Specifications.

(2) There is a question to its ability to survive after the end of the guarantee period that would render it below the minimum quality indicated in the Specifications.

(3) It is dead.

The 3 calendar days may be extended due to seasonal conditions, availability of replacement like quality root pruning, etc. only if approved by the Landscape Architect in writing and approved as a substitute before they are delivered and installed on the project.

C. Size, Quality, and Grade:
(1) Replacement plant material shall be one of the same species, quality and grade as that of the plant to be replaced. The size of the replacement shall not necessarily be the same size as the original specified plant. At its initial planting, the replacement shall be of equal size to the plant to be replaced at the time it has been determined that it must be replaced.

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(3) It is dead.

The 3 calendar days may be extended due to seasonal conditions, availability of replacement like quality root pruning, etc. only if approved by the Landscape Architect in writing and approved as a substitute before they are delivered and installed on the project.

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(1) Replacement plant material shall be one of the same species, quality and grade as that of the plant to be replaced. The size of the replacement shall not necessarily be the same size as the original specified plant. At its initial planting, the replacement shall be of equal size to the plant to be replaced at the time it has been determined that it must be replaced.

However, if for some reason, the plant to be replaced is smaller than the size originally specified, the size and replacement shall be at least equal to the originally specified size.

(2) Replacements shall be guaranteed for a period equal to the originally specified guarantee. This guarantee period shall begin at the time of acceptable replacement.

(3) Final payment to the Contractor shall not relieve he or she of the guarantee obligations.

Plan and Specification Interpretation:

A. On the Plans, figured dimensions shall govern over scaled dimensions. If any error or discrepancy is found in the Plans and Specifications, the Contractor shall refer the same to the Landscape Architect for an interpretation and decision. In resolving conflicts between the Plans and Specifications, THE FLORIDA (STATE) GOVERNOR over the Specifications. The Landscape Architect shall have the right to correct apparent errors or omissions in the Plans and Specifications and to make such interpretations as he or she may deem necessary for the proper fulfillment of the intent of the Plans and Specifications.

Permits and Codes:

A. The Contractor shall procure all necessary permits to accomplish all of the work.

B. The Contractor is responsible for performing all work in the project until a written agreement setting forth the adjusted contract amount has been executed by the Owner and the Contractor. Any work performed on any changes or additional work prior to the execution of a written agreement may or may not be compensated for.

Changes and Additional Work:

A. The Contractor shall not start, on any changes or additional work in the project until a written agreement setting forth the adjusted contract amount has been executed by the Owner and the Contractor. Any work performed on any changes or additional work prior to the execution of a written agreement may or may not be compensated for.

Job Site, "Project Site, Etc.":

A. The words "job site", "project site", "site", "project" and "site" shall be synonymous with one another when used in these documents.

Safety On and Off the Job Site:

A. In performing the scope of work, all safety on or off the job site shall be the sole responsibility of the Contractor. The Landscape Architect shall not be responsible for safety on or off the job site.

The Landscape Architect's on site observation or inspection shall be only for the purpose of verifying the Plans and Specifications are being implemented properly. The Landscape Architect on site observations or inspections are not for safety on or off the job site.

On the Observations and Inspections:
A. The Contractor shall make requests for on site observations or inspections 48 hours in advance and they shall be in writing, if directed by the Landscape Architect.

B. In an inspection related to completion and final acceptance, the requests shall be made in writing 48 hours in advance.

C. An inspection at the growing site does not preclude the right of rejections at the project site.

D. The fact that the Landscape Architect has not made an early on site observation or inspection to discover failing work or apparent errors or work performed which is not in accordance with the contract requirements, shall not bar the Landscape Architect from subsequently rejecting such work as a user.

E. The Landscape Architect on site observations or inspections shall be only for the purpose of verifying that the Plans and Specifications are being implemented properly. The Landscape Architect on site observations or inspections are not intended to take charge, direct, not or manage the implementation of the Plans and Specifications or take charge, organize or manage the Contractor while performing the scope of work indicated in these Specifications.

Plant Material:

A. Plant material shall be nursery grown except:

(1) Where specified as collected material.
(2) Where approved by the Landscape Architect for such plant material as collected from a collected tree from sources such as residences.

B. Except where another grade is specifically called for in the Plans, all plant material, including collected material if specified, shall be no less than Florida "A" or better. At the time of installation and final acceptance, existing groundcover or plants to remain or to be replaced shall be excluded from the requirement.

C. Health of Growth: All plant material shall have a habit of growth that is normal for that species and shall be sound, healthy, vigorous and free from insects, plant diseases and injuries.

H. Pallets:

(1) Remove a minimum of fronds from the crown of the plants to facilitate transporting and handling.

(2) Pallets shall be uniformly applied as a depth of approximately 3 inches, or other depth as indicated otherwise, over all shrub and groundcover areas, around trees and plants. Loose or uneven surfaces along line of water flow is excluded. Place soil on at right angles to slope.

(3) Initially, water the plant material to develop uniform coverage and deep water penetration to the full depth of the root zone. Avoid excessive puddling and sealing soil away from the roots.

(4) Provide continuous watering of plant material after planting in order to achieve optimum growth conditions to escape plants. Water shall be applied as necessary and the amount of water and frequency of watering shall be based on the specific variety of plant material, type of soil, amount of rainfall and other environmental conditions. This watering shall begin after the plants are planted and continue until final acceptance. All trees and plants shall be watered only during the period and only on the irrigation system. If there is a need to achieve results, manual watering may be necessary.

(5) All areas to be the responsibility of the Contractor to replace any areas of soil that are not in healthy growing condition.

(6) The Contractor shall completely water the soil until final acceptance by mowing or spraying as necessary.

D. Planting Beds:

(1) Spread 3 inches of topsoil mixture uniformly over the entire planting area.

(2) Spread 50% organic fertilizer at a rate of 4 pounds per 1000 square feet uniformly over the groundcover area.

(3) Rotor mix, or by other approved method, to a depth of twelve inches.

(4) Fine grade to remove all trash roots, and debris to be replaced.

(5) Thoroughly water and firm the planting soil mixture.

E. Mulch:

(1) Areas to be mulched shall have existing weeds and vegetation removed, including root systems, before applying mulch.

(2) Grades are to be uniform. Grade areas which are rough and uneven. Fill in voids and holes with planting soil or other approved fill material.

(3) The soil areas so that the top of the soil will be at finished grade after rolling and tamping.

(4) All plants to be Florida "A" or better.

(5) No substitutions will be accepted without prior written approval by the Landscape Architect.

(6) All landscaped areas to receive 50% irrigation coverage by an automatic underground sprinkler system equipped with a rain sensor. If the source of water for the irrigation system is not potable or reclaim water, and the water pump is not approved by the City, the Contractor shall be responsible for providing a water treatment system to install. An irrigation system shall be installed.

(7) All landscaped areas to receive 50% irrigation coverage by an automatic underground sprinkler system equipped with a rain sensor. If the source of water for the irrigation system is not potable or reclaim water, and the water pump is not approved by the City, the Contractor shall be responsible for providing a water treatment system to install. An irrigation system shall be installed.

(8) All landscaped areas to receive 50% irrigation coverage by an automatic underground sprinkler system equipped with a rain sensor. If the source of water for the irrigation system is not potable or reclaim water, and the water pump is not approved by the City, the Contractor shall be responsible for providing a water treatment system to install. An irrigation system shall be installed.

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D. Measurement of Trees, Plants, Shrubs, and Groundcover:

(1) Trees, Shrubs, and Groundcover:
A. Rootball: Requirements for the measurement of minimum rootball diameter and depth shall comply with the Florida Department of Agriculture's "Grades and Standards for Nursery Plants, Part 1 and Part 2" as follows:

CALIPER	MIN BALL DIA.	MIN BALL DEPTH
1 - 1 1/2"	16"	70% of dia.
1 1/2 - 2"	20"	60% of dia.
2 - 2 1/2"	24"	60% of dia.
2 1/2 - 3 1/2"	28"	60% of dia.
3 1/2 - 4"	32"	60% of dia.
4 - 4 1/2"	36"	60% of dia.
4 1/2 - 5"	40"	60% of dia.
5 - 5 1/2"	44"	60% of dia.
5 1/2" or more	Increase in proportion	up to 40% increase in proportion for larger size diameter.

B. Heights: The height of plant material shall be measured from Finish grade and continue up to where the main mass of the plant uniformly ends. The height shall not include any singular or isolated plants of the plant, such as leaves, shoots, branches, tree or fronds, which extend out beyond the main mass of the plant.

E. One-Back and Lead Drop: plant material showing signs of die-back of leaf-drop will not be accepted and must be removed from the project immediately. The Landscape Architect. Therefore, any plant material with tendencies toward leaf-drop or die-back will not be provided any amount to provide a sound return of material for the project.

F. Mechanical Destruction of Foliage: Mechanical destruction of foliage from root pruning shall not affect more than 10% of the total foliage prior to planting on the project. Loss of foliage caused by seasonal change will be accepted.

G. Spanish Moss: If Spanish Moss (Tillandsia usneoides) exists on plant material, it shall be completely removed prior to planting on the project.

H. Pallets:
(1) Remove a minimum of fronds from the crown of the plants to facilitate transporting and handling.

(2) Pallets shall be uniformly applied as a depth of approximately 3 inches, or other depth as indicated otherwise, over all shrub and groundcover areas, around trees and plants. Loose or uneven surfaces along line of water flow is excluded. Place soil on at right angles to slope.

(3) Initially, water the plant material to develop uniform coverage and deep water penetration to the full depth of the root zone. Avoid excessive puddling and sealing soil away from the roots.

(4) Provide continuous watering of plant material after planting in order to achieve optimum growth conditions to escape plants. Water shall be applied as necessary and the amount of water and frequency of watering shall be based on the specific variety of plant material, type of soil, amount of rainfall and other environmental conditions. This watering shall begin after the plants are planted and continue until final acceptance. All trees and plants shall be watered only during the period and only on the irrigation system. If there is a need to achieve results, manual watering may be necessary.

(5) All areas to be the responsibility of the Contractor to replace any areas of soil that are not in healthy growing condition.

(6) The Contractor shall completely water the soil until final acceptance by mowing or spraying as necessary.

(7) Spread 3 inches of topsoil mixture uniformly over the entire planting area.

(8) Spread 50% organic fertilizer at a rate of 4 pounds per 1000 square feet uniformly over the groundcover area.

(9) Rotor mix, or by other approved method, to a depth of twelve inches.

(10) Fine grade to remove all trash roots, and debris to be replaced.

(11) Thoroughly water and firm the planting soil mixture.

E. Mulch:

(1) Areas to be mulched shall have existing weeds and vegetation removed, including root systems, before applying mulch.

(2) Grades are to be uniform. Grade areas which are rough and uneven. Fill in voids and holes with planting soil or other approved fill material.

(3) The soil areas so that the top of the soil will be at finished grade after rolling and tamping.

(4) All plants to be Florida "A" or better.

(5) No substitutions will be accepted without prior written approval by the Landscape Architect.

(6) All landscaped areas to receive 50% irrigation coverage by an automatic underground sprinkler system equipped with a rain sensor. If the source of water for the irrigation system is not potable or reclaim water, and the water pump is not approved by the City, the Contractor shall be responsible for providing a water treatment system to install. An irrigation system shall be installed.

(7) All landscaped areas to receive 50% irrigation coverage by an automatic underground sprinkler system equipped with a rain sensor. If the source of water for the irrigation system is not potable or reclaim water, and the water pump is not approved by the City, the Contractor shall be responsible for providing a water treatment system to install. An irrigation system shall be installed.

(8) All landscaped areas to receive 50% irrigation coverage by an automatic underground sprinkler system equipped with a rain sensor. If the source of water for the irrigation system is not potable or reclaim water, and the water pump is not approved by the City, the Contractor shall be responsible for providing a water treatment system to install. An irrigation system shall be installed.

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(10) All landscaped areas to receive 50% irrigation coverage by an automatic underground sprinkler system equipped with a rain sensor. If the source of water for the irrigation system is not potable or reclaim water, and the water pump is not approved by the City, the Contractor shall be responsible for providing a water treatment system to install. An irrigation system shall be installed.

(2) Plant front lighting shall be as set forth in the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants". Light fixtures shall be at the option of the Contractor. The Landscape Architect may direct the Contractor to utilize Plant front lighting to accommodate an owner's "lighted entrance". The Contractor may raise the path after the event. This lighting will affect the guarantee or represent an additional cost to the owner.

(3) To reduce head volume, Palm fronds may be taper trimmed by not more than one-third.

(4) Pallets with mechanical damage, such as from cables, chains, equipment and nails, shall be rejected.

I. Chlorosis: The allowable level of Chlorosis in foliage shall be as set forth in the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants".

J. Plant material shall not be accepted when the ball or earth surrounding its roots has been broken, cracked, broken or otherwise damaged.

K. Root pruning of plant material, when necessary shall be done a minimum of 4 weeks, or for a period as determined by the Landscape Architect, prior to planting at the project.

Soil:

A. Soil shall be solid soil and shall be standard quality grade. Note: Quality grade shall be based on the standard of soil quality grades (premium, standard or commercial) as established by the Turf Grass Producers Association of Florida Inc. The soil shall be well mixed with roots and of the loam texture having a cation exchange capacity of 10 or more. Soil shall be free of objectionable material, including but not limited to: twigs, sticks, roots, and other debris. Soil shall be relatively free of thatch up to one-half inch allowable compressed.

B. The soil shall be well mixed with roots and of the loam texture having a cation exchange capacity of 10 or more. Soil shall be free of objectionable material, including but not limited to: twigs, sticks, roots, and other debris. Soil shall be relatively free of thatch up to one-half inch allowable compressed.

C. Annuals Fertilize with Osmocote - Bone Meal
D. Composition and Quality: All fertilizer shall be uniform in composition and quality. Groundcover fertilizer shall be in liquid and fully dissolved bags. All bags contain a label and be delivered to the project site.

E. All fertilizer shall comply with the State of Florida fertilizer laws.

Planting Soil:

A. All plant material, unless indicated otherwise, shall be installed in a planting soil composed of sandy loam (light sand) and 20% topsoil of the locality. The soil must be taken from ground that has never been eroded with a slight acid reaction (5.5 to 6.5 pH) and without an excess of organic matter. Soil shall be delivered in a loose condition.

B. The soil shall be well mixed with roots and of the loam texture having a cation exchange capacity of 10 or more. Soil shall be free of objectionable material, including but not limited to: twigs, sticks, roots, and other debris. Soil shall be relatively free of thatch up to one-half inch allowable compressed.

C. The soil shall be well mixed with roots and of the loam texture having a cation exchange capacity of 10 or more. Soil shall be free of objectionable material, including but not limited to: twigs, sticks, roots, and other debris. Soil shall be relatively free of thatch up to one-half inch allowable compressed.

D. The soil shall be well mixed with roots and of the loam texture having a cation exchange capacity of 10 or more. Soil shall be free of objectionable material, including but not limited to: twigs, sticks, roots, and other debris. Soil shall be relatively free of thatch up to one-half inch allowable compressed.

E. The soil shall be well mixed with roots and of the loam texture having a cation exchange capacity of 10 or more. Soil shall be free of objectionable material, including but not limited to: twigs, sticks, roots, and other debris. Soil shall be relatively free of thatch up to one-half inch allowable compressed.

F. The soil shall be well mixed with roots and of the loam texture having a cation exchange capacity of 10 or more. Soil shall be free of objectionable material, including but not limited to: twigs, sticks, roots, and other debris. Soil shall be relatively free of thatch up to one-half inch allowable compressed.

G. The soil shall be well mixed with roots and of the loam texture having a cation exchange capacity of 10 or more. Soil shall be free of objectionable material, including but not limited to: twigs, sticks, roots, and other debris. Soil shall be relatively free of thatch up to one-half inch allowable compressed.

H. The soil shall be well mixed with roots and of the loam texture having a cation exchange capacity of 10 or more. Soil shall be free of objectionable material, including but not limited to: twigs, sticks, roots, and other debris. Soil shall be relatively free of thatch up to one-half inch allowable compressed.

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J. The soil shall be well mixed with roots and of the loam texture having a cation exchange capacity of 10 or more. Soil shall be free of objectionable material, including but not limited to: twigs, sticks, roots, and other debris. Soil shall be relatively free of thatch up to one-half inch allowable compressed.

Staking and Tagging:

A. Staking and tagging shall be the responsibility of the Landscape Contractor. Staking and tagging shall not be attached directly to the plant material with nails. Also, fasteners used in staking and tagging shall not be attached to the plant material with nails. Any method of staking and tagging shall be approved by the Landscape Architect before they are delivered and installed on the project.