

CONCRETE WALK

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NORTH

sheet:
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P A V E D
FLORIDA BOULEVARD

50' RIGHT OF WAY PER
PLAT BOOK 14, PAGES 9-10

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CODE DATA

Δ	TOTAL LOT AREA		25,875 S.F.
8	STRUCTURES, PARKING, WALKWAYS, DRIVES, ETC.		12,42Ø SF.
c	TOTAL PERVIOUS LOT AREA	C = (A - B)	13,455 S.F.
Þ	AREA OF SHRUBS AND GROUND COVERS REQUIRED	D = (C x 30)	4 <i>0</i> 37 S.F.
E	AREA OF SHRUBS AND GROUND COVERS PROVIDED		4 <i>0</i> 52 S.F.
F	NATIVE VEGETATION REQUIRED	F = (D x 25)	1,010 S.F.
G	NATIVE VEGETATION PROVIDED		1,084 S.F.
H	TOTAL PAVED VEHICULAR USE AREA		3,11 9 S.F.
1	TOTAL INTERIOR LANDSCAPE AREA REQUIRED	l = (H x .10)	312 S.F.
J	TOTAL INTERIOR LANDSCAPE AREA PROVIDED		in excess of 1,334 S.F.
K	TOTAL INTERIOR SHADE TREES REQUIRED	K = (1/125 S.F.)	3 TREES
L	TOTAL INTERIOR SHADE TREES PROVIDED		11
М	TOTAL LINEAR FEET SURROUNDING PARKING OR VEHICULAR USE AREAS!		50 LF.
N	TOTAL NUMBER OF PERIMETER TREES REQUIRED	N = (M/3Ø) N = (M/25) IF ADJACENT TO PROPERTY IN RESIDENTIAL USE	2 TREES
0	TOTAL NUMBER OF PERIMETER TREES PROVIDED		6 TREES
P	TOTAL NUMBER OF EXISTING TREES TO BE SAVED ON SITE		2 TREES
Q	TOTAL NUMBER OF NATIVE TREES REQUIRED	Q = ((K + N) × 50)	3 TREES
R	TOTAL NUMBER OF NATIVE TREES PROVIDED		8 TREES
9	TOTAL NUMBER OF TREES ON PLAN PROVIDED		12 TREES
	-	-	

- ALL PLANT MATERIAL SHALL BE FLORIDA *I GRADE OR BETTER.

- MILCH SHALL BE APPLIED TO A MINIMUM DEPTH 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 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) PALM'S ARE EQUIVALENT TO ONE (1) SHADE TREE.

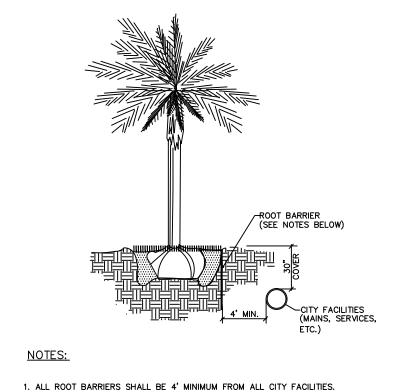
- ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER, OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS: LD I.I & LD I.2.

NOTE: ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS LD 1,1 AND LD 12.

THE AREA BETWEEN THE PROPERTY LINE / ROW. LINE AND THE EDGE OF PAVEMENT OF CITY STREETS SHALL BE SODDED OR LANDSCAPED WITH A GROUND COVER ACCEPTABLE TO THE CITY ENGINEERING DEPARTMENT. IT IS UNDERSTOOD THAT ANY REPAIRS DUE TO CITY MAINTENANCE WILL BE REPLACED. (THE CITY WILL ONLY REPLACE WITH ST. AUGUSTINE OR BAHIA GRASS.

A COST ESTIMATE WILL BE SUBMITTED AT THE TIME OF THE BUILDING PERMIT APPLICATION.

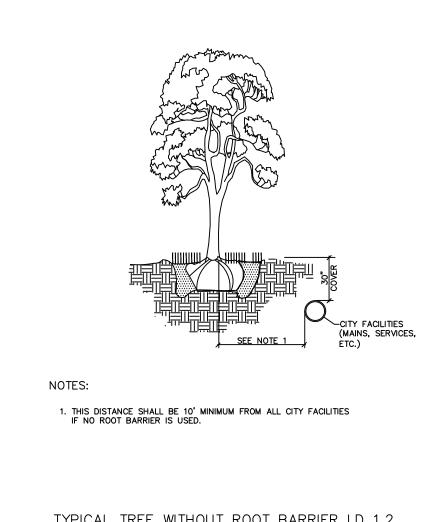
AN IRRIGATION PLAN WILL BE SUBMITTED AT THE TIME OF THE BUILDING PERMIT APPLICATION



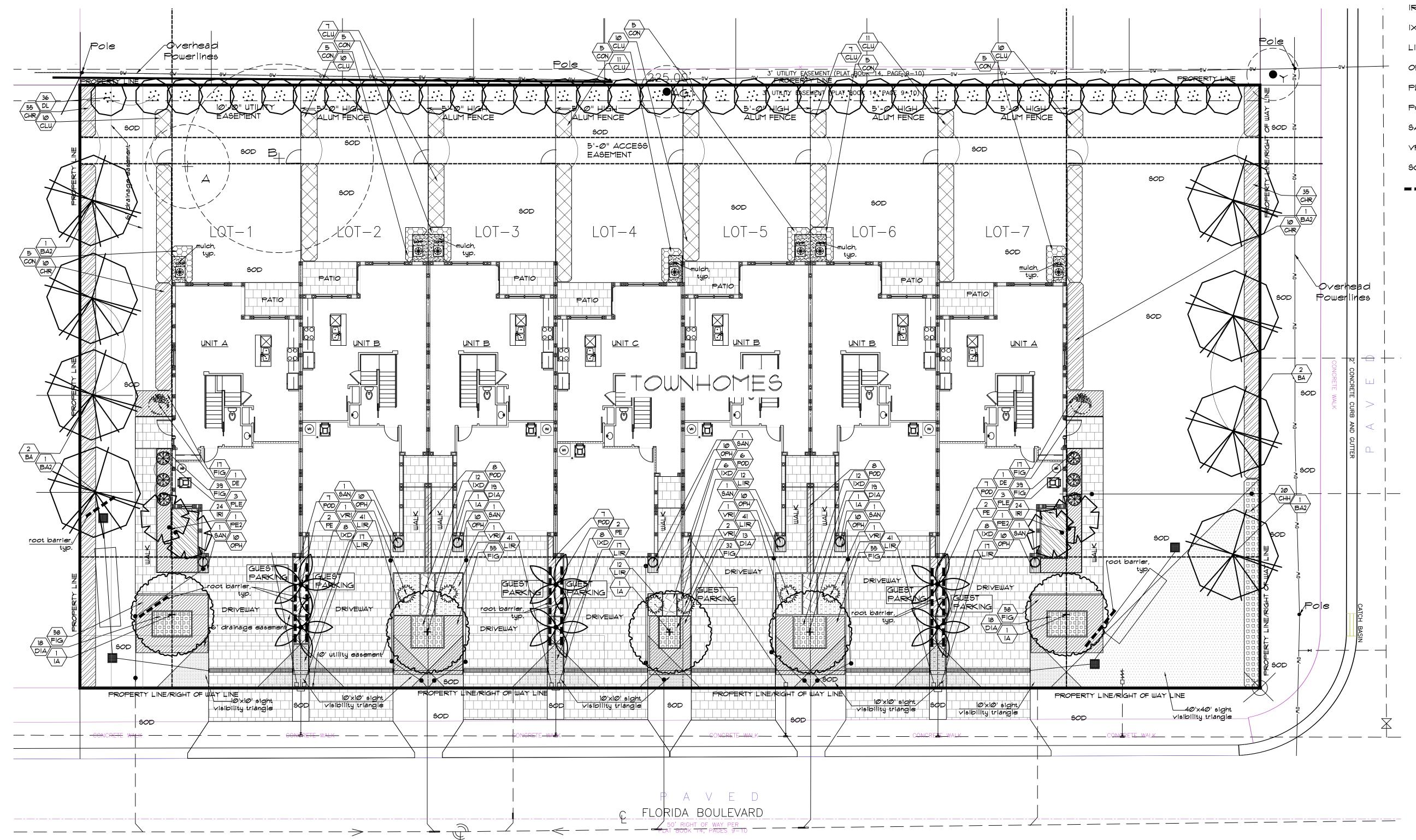
- 1. ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL CITY FACILITIES.
 2. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH CITY AND INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.

 2. ROOT BARRIERS SHALL BE ANNIMALY 76" DEED ADDROVED PRODUCTS INCLUDE.
- ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.
 ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

TYPICAL TREE WITH ROOT BARRIER LD 1.1



TYPICAL TREE WITHOUT ROOT BARRIER LD 1.2



PLANT LIS

<u>SYM</u>	BOTANICAL/COMMON NAME	SPECIFICATIONS	QTY	<u>native</u> *
BA	Bulnesia arborea Verawood	16' ht. x 7' spr., 3" cal.	4	*
BA2	Bulnesia arborea Verawood	12' ht. x 5' spr., 2" cal.	4	*
DE	Duranta erecta 'Sapphire Showers' Golden Dewdrop	6' ht. x 3' spr.	2	
DL	Dypsis lutescens Areca Palm	10' ht. x 5' spr., ftb.	36	
IA	llex x attenuata 'East Palatka' East Palatka Holly	16' ht. x 7' spr., 3" cal., standard	d 5	*
PE	Ptychosperma elegans Single Solitaire Palm	16' o.a. ht., single trunk	6	
PE2	Ptychosperma elegans Double Solitaire Palm	16' o.a. ht., double trunk	2	
CHH	Chrysobalanus icaco 'Horizontal' Horizontal Cocoplum	24" ht. x 24" spr., 24" o.c.	20	*
CHR	Chrysobalanus icaco Cocoplum	24" ht. x 24" spr., 24" o.c.	110	*
CLU	Clusia guttifera Clusia	24" ht. x 30" spr., 30" o.c.	76	
CON	Conocarpus erectus 'Sericeus' Silver Buttonwood	24" ht. × 24" spr., 24" o.c.	3 5	*
DIA	Dianella tasmanica 'Variegata' Blueberry Flax Lily	10" ht. x 10" spr., 18" o.c.	53	
FIG	Ficus microcarpa Green Island Ficus	10" ht. x 10" spr., 18" o.c.	37Ø	
IRI	lris virginica Blue Flag Iris	18" ht. x 18" spr., 18" o.c.	48	*
IXD	lxora 'Maui Sunset' Dwarf Ixora	18" ht. x 18" spr., 18" o.c., double row	54	
LIR	Liriope muscari 'Evergreen Giant' Evergreen Giant Liriope	12" ht. x 12" spr., 12" o.c.	239	
OPH	Ophiopogon japonicus Mondo Grass	5" ht. x 5" spr., 6" o.c.	7Ø	
PLE	Dracaena reflexa 'Variegata' Pleomele	5' ht., 3ppp	6	
POD	Podocarpus macrophyllus Podocarpus	42" ht. x 24" spr., 24" o.c.	43	
SAN	Sanseveria trifasciata laurentii Variegated Sanseveria	18" ht. x 18" spr.	Т	
YRI	Vriesea imperialis Imperial Bromeliad	3' ht. x 3' epr.	6	
SOD	Stenotaphrum secundatum St. Augustine Sod	full, fresh sod	as req'd	
	Root Barrier	36" ht. hung vertically	as req'd	

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sheet title:
planting

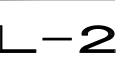
plan

project number: 3820 date: 03/12/2020 scale: 1" = 10'

drawn by: 1'' = 10'drawn by: 1'' = 10'mb

revisions: $\frac{\Lambda}{1/27/20-\text{Tree J}}$ $\frac{\Lambda}{1/4/20-\text{TAC comments}}$

sheet:





Applicable Documents

Scope of Work:

- A. These Specifications and the requirements hereinafter will govern this project during the installation, guarantee and maintenance period.
- A. The work specified by this Section of the Specifications and on the Plans consists of furnishing all labor, machinery, tools, apparatus, means of transportation, supplies, complete the work as indicated on the Plans and in the Specifications, as well as all other related responsibilities, including all change and repairs incident
- B. The work shall include, but not be limited to, furnishing material, root pruning where required, layout, protection to fertilizing, mulching, staking and guying where required, watering, pruning where required, sod installation, weeding
- C. Quantities and Location: The Landscape Architect reserves the right to adjust the numbers and locations 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 subsurface investigations and examination as he or she chooses in order to become familia construction conditions under which he or she will work. These subsurface investigations and examinations shall be included in the bid. The Contractor shall not receive separate, additional compensation for this.
- E. The Landscape Contractor shall be paid for only those units that are installed at the time of request for payment. The The final amount of payment may or may not be the total sum of the contract depending on the number of units installed.
- F. Ten percent (10%) of the total contract price will be held as retainer for 90 days after final written acceptance
- G. The Landscape Contractor will coordinate his work with all
- (2) Palm frond tying shall be as set forth in the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants". tying palm Architect may direct the Landscape Contractor to untie Paim fronds to accommodate an owners "grand opening The Contractor may retie the palm after the event. This untying will not affect the guarantee or represent an
- (3) To reduce head volume, Palm fronds may be taper trimmed
- (4) Palms with mechanical damage, such as from cables, chains, equipment and nails, shall be rejected
- . Chlorosis: The allowable level of Chlorosis in foliage shall be set forth in the latest edition of the Florida Departme of Agriculture's "Grades and Standards for Nursery Plants"
- J. Plant material shall not be accepted when the ball of earth surrounding its roots has been cracked, broken or otherwise
- 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.
- A. Sod shall be solid sod and shall be standard quality grade
- Note: Quality grade shall be based on the standards of sod quality grades (premium, standard or commercial) as inc. The sod shall be well matted with roots and of firm tough texture having a compact top growth and heavy root levelopment. Sod shall be free of objectionable grassy and broad leaf weeds. Sod shall not accepted if it contains Bermuda Grass. Sod sections shall be strong enough to suppor when suspended vertically from a firm grasp on the upper 10% of the section. Sod shall not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival. Sod shall be relatively free of thatch up to one half inch allowable (uncompressed). the soil embedded in the sod shall be a clean, earth, free of stones and debris. The sod shall have been mowed at leas three times with a lawn mower with final mowing not more than seven days prior to the sod being cut for placement. The sod shall be provided in commercial pad sizes measuring not less than 12 inches by 24 inches and shall be live, fresh and within 48 hours after being cut and shall be shaded and kept

moist from the time it is cut until it is planted.

be thoroughly suept.

to person or property.

Completion and Final Acceptance:

on this final inspection

- I. Removal of Plant Material: (i) All plant material to be removed shall be removed completely, including the rootball, from the job or as directed by the Landscape Architect. The remainir hole shall be filled with suitable material or planting soi as directed by the Landscape Architect.
- J. Existing Plant Material to be Relocated: (1) All existing plant material to be relocated shall be
- root pruned a minimum of 90 days or for a period as determined by the Landscape Architect prior to

(2) Rootball: Requirements for the measurement of minimum

rootball diameter and depth shall comply with requirements 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

CALIPER	MIN. BALL DIA.	MIN. BALL DEPTH
- 1.5"	16"	75% of dia.
5 - 1.75"	20"	65% of dia.
.75 - 2"	22"	65% of dia.
2 - 2.5"	24"	65% of dia.
2.5 - 3.5"	26"	65% of dia.
3.5 - 4"	28"	65% of dia.
4 - 4.5"	3@"	60% of dia.
4.5 - 5"	32"	60% of dia.
5 - 55"	34"	60% of dia.
55" or more	Increase in	60% of dia.
	proportion	up to 48",
	• •	then decrease in
		proportion for larger

- size diameter. (3) Root pruning shall be accomplished by digging a trench completely around the plant about 18 inches deep. All
- exposed roots shall be cut off smoothly. (4) A mixture of good organic fertilizer and planting soil
- shall be used to refill the trench. (5) Plant material which is in soil of a loose texture, which does not readily adhere to the root system, especially in the case of large plants or trees, shall have the rootball wrapped in burlap and then wire, if directed by the Landscape Architect. For wire, hog wire shall be used and it shall be placed around the rootbal before before the plant is removed from the hole for relocation. The wire shall be looped and tensioned until the burlapped ball is substantially packaged by the tightened wire netting formed by the hog wire, so as to prevent disturbance of the loose soil around the

roots during handling.

- A. The Landscape Architect may inspect trees, shrubs, and groundcover either at the place of growth or at the sit before planting for compliance with the requirements fo 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, insects, injuries, and latent defects, and try to reject unsatisfactory o defective material at any time during the progress of work The Landscape Contractor shall remove rejected trees or shrubs within I days from the project site.
- B. Responsibility for Assuring Quality Work:
- (1) The Contractor's Superintendent shall speak English and be well versed in Florida plant material, planting operations. Plan and Specification interpretation coordination with other contracts or service in the project area and coordination between the nursery an
- (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 esponsible for maintaining the quality of the material on the project.
- (3) The Contractor will comply with applicable Federal State, County and local requirements governing landscape
- (1) Plant material shall be Florida *1 or better as set forth in the latest edition of the Florida Department of Agriculture's Grades and Standards for Nursery Plants.
- (2) All plant material will be subject to the approval o the Landscape Architect for quality, size and color. Plants lacking the compactness or proper proportions close planting in nursery rows will not be accepted Plant materials which have been cut back from larger grades to meet certain specification requirements will be
- (3) Plant material shall have normal, well developed branches and shall be vigorous plants, free from injuries, abrasion of the bark, plant diseases, insec pest eggs, barers, and all forms of infestations or

- A. All plant material, unless indicated otherwise, shall be installed with a planting soil composed of sandy loam (50% sand , and 50% muck) typical of the locality. The soil must be taken from ground that has never been stripped, with a slight acid reaction (5.5 to 6.5 ph) and without an excess of calcium or carbonate. Soil shall be delivered in a loose friable condition.
- $\it A.\$ Potable, from municipal water supplies or other sources which are approved by a public health department.
- (1) "Floramulch" or other approved recycled mulch (approval by Landscape Architect or other governing agency)
- A. New and existing Trees and Palms: Fertilize with 8-2-12 palm fertilizer with micronutrients
- per manufacturer's recommendations. B. New and existing Shrubs, and Groundcover: rtilize with 8-2-12 palm fertilizer with micronutrients at a
- C. Annuals: Fertilize with Osmocote Sierra blend 14-14-14 or approved equal.

rate of 1/2 lb. per 1000 SF of area.

- D. Composition and Quality: All fertilizer shall be uniform in composition and dry. Granular fertilizer shall be free flowing and delivered in unopened bags. All bags containers
- E. All fertilizer shall comply with the State of Florida fertilizer laws.

A. Disposal of Trash: All debris and other objectionable

B. Excess Fill: All excess fill which results from the

Excess fill shall be disposed of as directed.

material created through planting operation and landscape

construction shall be removed completely on a daily basis

installation of the project shall remain the property of the

All excess fill which the Owner does not want shall be

Owner and remain on the project at the option of the Owner.

removed and disposed of from the project at no additional

cost. No excess fill shall be removed or disposed of from

the site until approved by the Owner or Landscape Architect.

A. Responsibility for Protection and Restoration of Property:

B. Protection Against Mechanical Damage: The Contractor's

she shall repair, restore and replace all property which

becomes damaged as a result of any negligence of the

A. Upon written notice from the Contractor of the presumptive

completion as defined below, of the entire project, the

will make an inspection within 48 hours after the written

contract Plans and Specifications, such inspection shall

constitute the final inspection. The Contractor shall be

B. If, however, the inspection mentioned in paragraph A, above,

necessary instructions or "punch lists". Upon correction

constitute the final inspection, provided the work has been

satisfactorily completed. In such event, the Owner or their

representative shall make the final acceptance and notify the

Contractor in writing of this final acceptance as of the sate

of work, another inspection will be made which shall

unsatisfactory, final acceptance shall not be given and the

Owner and/or Landscape Architect will give the Contractor the

discloses any work, in whole or in part, as being

Landscape Architect, along with other appropriate parties

notice. If all construction provided for and compensated by

notified in writing of final acceptance as of the date of the

the contract is found to be completed in accordance with the

Contractor or his or her employees in complying with these

The Contractor shall be responsible for all damage or injury

responsibility for protection against mechanical damage shall

warning signs and barricades as might be necessary and he or

include providing protection from vehicles and providing

from the job or as directed by the Landscape Architect. Any

paved areas including curbs and sidewalks which have been strewn with soil, sod waste, fertilizer or other debris shall

Delivery, Handling and Storage:

A. Delivery and Handling: (1) Movement of nursery stock shall comply with all Federal, State, and local laws, regulations, ordinances, codes, etc. (2) Protect during delivery to prevent damage to root ball

or desiccation of leaves. Remove unacceptable plant

materials immediately from the job site. Maintain and

- (3) Transport materials on vehicles large enough to allow plants not to be crowded and damaged. Plats shall be covered to prevent wind damage during transit.

protect while stored at the site.

- (1) Deliver sod on pallets with root system protected from capable of being installed within 48 hours of cutting.
- A. Written request for approval to substitute a plant species or a plants designation (B4B, WB4B, CG 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 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 indicated. This shall be for approval by the Landscape Architect before they are
- mplemented 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 these materials and their locations for approval by the Landscape Architect before they are delivered and installed on the project. Also, two 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 sod and the grade to be supplied for approval by the Landscape Architect pefore it is delivered and installed on the project

A. Staking and guying shall be the responsibility of the

Landscape Contractors. Staking and guying shall not be

battens used in staking and guying shall not be attached to

receive approval from the Landscape Architect prior to their

the plant material with nails. Any method of staking and

attached directly to the plant material with nails. Also

guying other than those indicated in the details, shall

jurisdiction the project is located in.

A. Utilities (Above Ground and Underground):

have been indicated on the Plans.

(1) The work area may have existing utilities, such as, but

not limited to, irrigation, phone, electrical and storm

sewer. The location of some of these existing utilities

Staking and Guying:

EXECUTION

F. If requested by the Owner or Landscape Architect, submit a sample and analysis of all planting soil types for approval by the Landscape Architect before the material is delivered

- and installed on the project. sample and analysis of the mulch for approval by the Landscape H. If requested by the Owner or Landscape Architect, submit a
- l. Submit three prints of shop drawing for all staking and guying methods to be used if the ones indicated in these Specifications and on the Plans are not to be implemented staking and guying methods before they are implemented in the The Landscape Architect will approve all shop drawings of

Architect before the material is delivered and installed on

- J. Submit in writing any hindrance to the owners routine maintenance or lack of, that may affect installed plan
- materials growth, or survival, that would affect the quarantee of plant material. K. Submit in writing any hindrance to the timely completion of
- L. Submit and Certificate of inspection of plant material as may be required by, State , local or Federal Authorities.

the installation.

A. When the specifies plant designation (B4B, WB4B, CG etc.), type, grade, quality, size, quantity, etc. of a material is not available, the Contractor shall submit a written request, to the Landscape Architect, for a substitution along with written, documented proof that the plant designation (B4E UB4B, CG, etc.), type grade, quality, size, quantity, etc. of material is not available. The Landscape Architec shall approve all substitutions before they are delivered and stalled. Do not deliver and install any material, which is anticipated to be a substitute, before it has been submitted in writing and approved as a substitute by the Landscape Architect. Also, ant changes, if any, to the contract amount because of an approved substitute, shall be established in writing between the Owner and the Contractor before the material substitute is delivered and installed on the

However, no guarantee is implied that the Plans are accurate or complete. It shall be the responsibility of the Contractor to verify the location of all such appropriate measures before performing any work that could result in damage or injury to persons, utilities, structures or property. The Contractor shall make a

thorough search of the site for utilities, structures

etc., before work is commenced in any particular

- installation. Under no circumstances will approval be given to allow the plunging, burying, or planting of trees or palms (2) The Contractor shall take immediate steps to repai so that the top of the grade, in order to eliminate the need or replace, or restore all services to any utilities or other facilities which are disrupted due to his or her B. The Contractor is responsible for performing all staking and guying in accordance with all applicable regulations prosecute repairs on a continuous "around the clock" pasis until services are restored. He or she shall also ordinances and code requirements from the appropriate local provide and operate any supplemental temporary services to maintain uninterrupted use of the facilities. All costs involved in the repairs and restoring disrupted service resulting from negligence on the part of the
 - resulting from the damage. (3) Should utilities, structures, etc., be encountered which interfere with the work, the Landscape Architect shall be consulted immediately in order for a decision to be made on the relocation of the work so it will clear the obstruction, if the obstruction cannot be relocated.

Contractor shall be borne by the Contractor and he or

she shall be fully responsible for any and all claims

(4) The Contractor shall not purposefully disrupt or disconnect any type of utility whatsoever without first Architect. Requests for disconnection must be in writing and received by the Landscape Architect at least 72 hours prior to the time of the requested interruption

- A. Its shall be the responsibility of the Contractor to provide the final grading so the final level for planting areas conforms to surrounding grades and is at the proper elevation with relation to walks, paving, drain structures and other
- B. Plant Area Next to Pavement: All planting areas next to pavement areas, such as, but not limited to, curbs, roads, drives, walks, terraces, decks and slabs shall be set so that the TOP OF THE MULCH IS I INCH BELOW THE TOP OF THE PAVEMENT AREA or as indicated otherwise on the plans
- Staking Plant Locations: Stake or mark plant material locations prior to plant hole excavation, based on

(5) Edge and mow sod once a week.

- (6) Edge and weed all shrubs, groundcover and flower beds "punch lists" which may be issued outlining certain items of once a week. work which were found unsatisfactory or required completion of (7) Remove all litter once a week
- provided for and contemplated by the contract is inspected and found to be completed in accordance with contract Plans and Specifications. E. Final acceptance shall not be official until acknowledged in
- writing by the Owner or their representative. F. The guarantee shall not begin until the day final acceptance

D. Final acceptance shall not be given until all construction

- Certain responsibilities prior to Final Acceptance: The following is a partial list of certain responsibilities. It is not a
- A. The Contractor is responsible for the entire project prior to written acceptance.

complete list, but only a summary of certain responsibilities

- B. The Contractor is responsible for safety on and off the job
- C. Maintenance Prior to Final Acceptance (1) Maintenance shall begin immediately after each plant is planted and continue until final acceptance.
- (2) Plant maintenance shall include watering, mowing edging, pruning, weeding, cultivating, repair of erosion, mulching, tightening and repairing of guys, stakes, braces, etc., replacement of sick or dead plants, replacement of sod areas which do not become established, resetting plants to proper grades or upright position, maintenance of the watering saucer

litter removal, and all other care needed for proper

- (3) immediately after planting, each plant shall be watered acceptance. Refer to the heading "Watering", which is in Part 3 of these Specifications, for additional
- (4) All plant material shall be weeded once a week. In the event that weeds or other undesirable vegetation becomes prevalent to such as extent that they threaten plant material, the weeds shall be removed as directed by th Landscape Architect. If necessary, the plant material mulch, sand and/or planting soil shall be replaced as needed to eliminate weeds or undesirable vegetation at the expense of the Contractor

C. Completion of the work shall mean the full and exact compliance and conformity with the provisions expressed o implied in the Plans and Specifications including any and all

- (8) Spraying and Dusting: Contractor shall do all seasonal spraying and/or dusting of all planting, as needed, for
 - complete control of pests and diseases. The materials and methods shall be in accordance with the highest standard horticultural practices and as recommended by the County Agent, and approved by the Landscape (9) Sod: After the sod has been laid, tamped and top
 - dressed, all areas and parts of area which fail to show uniform growth and health, shall be resodded, repeatedly if necessary, until all sodded areas are covered with a satisfactory lawn. Damage resulting from erosion guilles, washouts, or other causes shall be repaired b lling with topsoil, tamping, refertilizing, and ding by the Contractor at his or her expense
 - (10) Protection: Plant material shall be protected against trespassing and damage. If any plants become damaged or injured, they shall be treated or replaced as directed and in compliance with the Specifications at no additional cost. No work shall be done within or over planting areas or adjacent to plants without proper safeguards and protection.
 - (11) Keep sidewalks, curbs and gutters, driveways, parking areas, streets, terraces, decks, and pavers free of plant cuttings, debris and stains.
 - D. Material rejected during the course of construction shall be removed within 3 working days and replaced before an inspection for completion will be scheduled. E. Survival and Conditions: The Contractor shall be responsible for the proper maintenance and the survival and condition of

all landscape items from the time a landscape item is

- F. Replacement: Replacement of plant material shall be the responsibility of the Contractor including the possible replacement of plant material resulting from removal by theft or vandalism or acts of negligence on the part of others. All plant material shall be alive and in good growing condition for each specific kind of plant at the time of
- G. Rating: The rating of plant material according to Florida Grades and Standards shall be equal to or better than called for on the Plans and in these Specifications at the time of

- A. The guarantee shall not begin until the day final written
- B. All sod shall be guaranteed for a minimum of 60 days from the time of final acceptance. All trees, palms and shrubs are to be guaranteed for one year from the
- C. The guarantee shall be null and void for plant material which is damaged or dies as a result of "Acts of God" limited to hail, freeze, lightning, and winds which exceed hurricane
- force, providing the plant was in a healthy growing condition 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
- $\ensuremath{\mathsf{A}}.$ The guaranteeing of a plant material shall be construes 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 indicted in the
- (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.
- B. The 3 calendar days may be extended due to seasonal conditions, availability, preparation time such as root pruning, etc., only if approved by the Landscape Architect in advance. The extended time shall be negotiated between all parties concerned, but must receive final approval by the
- C. Size, Quality, and Grade

(3) It is dead.

quarantee period.

- (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.
- B. Spacing of Groundcover 4 Shrubs: The location of a planting bed (shrub or groundcover) next to another bed walkway, structure, etc., shall have the plants along the without growing into the other bed, walkway, structure, etc
- C. The rootballs of B&B plants which cannot be planted immediately shall be covered with moist soil or mulch to insure protection from drying winds and sun. All plants shall be maintained as necessary until planting
- D. Subsurface Conditions: Some or all work areas may be compacted and/or contain existing material such as limerock which may interfere with adequate vertical drainage and/or this material is part of the scope of work for the project, The Contractor shall be responsible for insuring adequate drainage in these areas and shall remove this existing material, as required, by such means as auguring, drilling of ototilling. If necessary, excavate to a depth beyond the required excavation depth for the plant hole, in order to insure proper vertical drainage necessary for plant survival
- E. Remove undesirable existing vegetation present on the project by use of chemicals and/or mechanical means which are acceptable to the Landscape Architect. Apply chemicals as recommended by the manufacturer. Exercise care to avoid any misuse of the chemicals which will cause detrimental residua conditions. Care shall also be used so that any final grades which have been established are not altered.
- F. Excavation of Plant Holes:

(1) General:

a. Excavation of plant holes shall be roughly cylindrical in shape with the sides approximate vertical. The Landscape Architect reserves the right to adjust the size and shape of the plant hole and the location of the plant in the hole to

compensate for unanticipated structures or

manticipated factors which are a conflict

- b. The excavated material from the plant holes shall not be used to backfill around the plant material. Such material shall be disposed of either on the project site or off the site, as directed by th Landscape Architect. installation:
- A. General: The Contractor shall lay out on the ground the locations for the plants and outlines of areas to be planted and obtain approval of the Landscape Architect before excavation is begun. The Landscape Architect may adjust the location of specifies plant materials prior to planting.

varies

see plant list

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

- (2) Replacements shall be guaranteed for a period equal to the originally specifies guarantee. This guarantee period shall begin at 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 PLANS SHALL GOVERN over the Specifications. The Landscape Architect shall have the right to corre 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

- A. The Contractor shall procure all necessary permits to accomplish all of the work,
- B. The Contractor is responsible for performing all work in accordance with all applicable regulations, ordinances and code requirements from the appropriate city, county, state and/or Federal jurisdiction the project is located in

Changes and Additional Work

Plans and Specifications.

- 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 Owne 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", "job", "project" and "site" shall be synonymous with one another when used in

Safety On and Off the Job Site:

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

B. Setting of Plants:

off the job site.

- (1) All plants shall be set at the proper level so that after settlement, a normal or natural relationship between the crown of the plant and the surrounding ground surface exists. The plants shall be set to placement of the plant material, fill the planting pits with water. The plant hole shall be backfilled wit opsoil mixture placed in layers around the roots o ball. Each layer shall be carefully tapped in place. When partially backfilled and compacted, the hole shall be filled with water and the soil allowed to settle around the roots: the ball ties shall be cut and at the burlap peel down 1/3 from the top of the rootball and cut or adjusted to prevent the formation of air pockets before applying the water. After the water has been absorbed tapped to grade. Subsoil removed from tree pit shall
- (2) All sabal and queen paims shall be backfilled with clean thoroughly washed in during the planting operation.
- (3) Water Saucer: A 4-inch high water saucer shall be formed around the rim of each individual tree or palm pit and maintained in place. (4) Plant material of the shrub category and smaller must be
- damage that might occur by improper handling or (5) All trees and palms shall be handled by both the trunk

root system.

- prepare the soil in the following manner:
- a. Uniformly apply formula 8-8-8 fertilizer over the area at a rate of 25 pounds per 1,000 square feet

Shrubs

2" x 4" PTP wood blocking banded around trunk (not nalled) w/ triple layer burlap between trunk and blocking

PTP wood stakes suitable size and length to hold braces (24" x 2" x 4" min.) drive flush w/ finish

arade, stake nailed to brace

Straight Trunk Palms

- Dripline of existing tree

ground 2' @ 4' o.c.

— 6' ht. steel fence post driven into

Orange plastic mesh fencing

EXISTING TREE

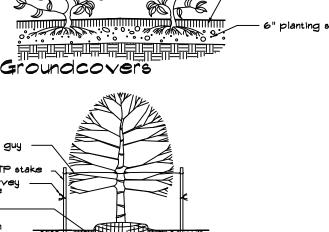
BARRIER DETAIL

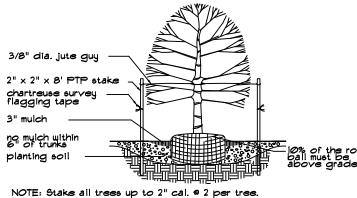
PROTECTION

3" mulch ---

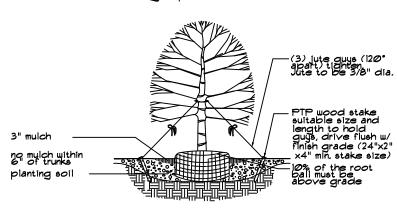
existing grade -

PLANTING DETAILS





All plastic nursery tape / flagging must be removed from all plants. Tree Staking, up to 2" cal.



All plastic nursery tape / flagging must be removed from all plants. Tree Staking, above 2" cal.

not be mixed or used in any way with the topsoil

- handled by the ball only. Plant material too large for hand handling, if moved by winch or crane, must be thoroughly protected from chain, rope, or cable marks.
- and rootball at the same time and not by the trunk only. (6) Container grown plant material shall be carefully removed from the container so as not to disturb the

- (1) Soil Preparation: Within 24 hours prior to placing sod,
- b. Remove stones and foreign matter over two inches in diameter from the top two inches of soil.

c. Grade the sod areas so that the top of the sod will be at finished grade after rolling and tamping.

GENERAL NOTES 3" mulch I. ALL PLANTS TO BE FLORIDA NO. I OR BETTER —finished grade 2. NO SUBSTITUTIONS WILL BE ACCEPTED WITHOUT PRIOR WRITTEN

– (3) 4" × 4" × 8' braces nailed into blocking

— trunk flare or top roo

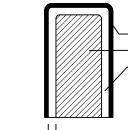
- chartreuse surve

visible on surface

– clean sand

- IS NOT POTABLE OR RECLAIM WATER, AND THE WATER STAINS SITE IMPROVEMENTS, SUCH AS BUILDINGS, PAVING, ETC., THE CONTRACTOR JILL NEED TO INSTALL AN INJECTION TYPE RUST CONTROL SYSTEM 4. QUANTITIES ON PLANT MATERIALS ARE FOR CONVENIENCE ONLY. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOULD ON PLANTING PLANS, WHEN DISCREPANCIES OCCUR BETWEEN PLANT
- IST IN ALL CASES, SOD QUANTITY IS TO BE DETERMINED BY 5. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND
- . CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, AND PLANTS NECESSARY FOR THE PROPER PLANTING OF ALL TREES, SHRUBS GROUNDCOVERS, AND GRASS AS SHOWN ON LANDSCAPE ARCHITECT'S PLANTING PLANS.
- 9. ALL PLANTED AREAS ARE TO BE MULCHED WITH "FLORAMULCH",
- 50% SAND AND BE FERTILE, AND FRIABLE II. GROUNDCOVER AND SHRUBS TO BE LAID OUT IN A UNIFORM AND

EXCAVATION DETAIL THE CONTRACTOR MUST ADHERE TO THE FOLLOWING:



APPLIES TO ALL LANDSCAPE ISLANDS, INTERIOR LANDSCAPE STRIPS, PERIMETER LANDSCAPE STRIPS, & MEDIANS WITHIN THE PARKING LOT AND PLANTING AREAS. ADJACENT TO VEHICULAR USE AREAS. THESE AREAS TO BE BACKFILLED WITH 50/50 SOIL MIX.

- D. Measurement of Trees, Palms, 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 "Grade and Standards for Nursery Plants, Part I and Part

MIN. BALL DIA.	MIN. BALL DEPTH
16"	75% of dia.
20"	65% of dia.
22"	65% of dia.
24"	65% of dia.
26"	65% of dia.
28"	65% of dia.
30"	60% of dia.
32"	60% of dia.
34"	60% of dia.
Increase in	60% of dia.
proportion	up to 48",
• •	then decrease in
	proportion for larger
	size diameter.
	16" 20" 22" 24" 26" 28" 30" 32"

- b. Height: 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 parts of the plant, such as leaves, shoots, branches, limbs or fronds, which extend out beyond the main mass of the plant.
- back of leaf-drop will not be accepted and must be removed from the project immediately if so directed by the Landscape Architect. Therefore, any plant material with tendencies toward leaf-drop or die-back must be root pruned early enough to provide a sound network of hair roots prior to relocat

E. Die-Back and Leaf Drop: plant material showing signs of die-

- F. Mechanical Destruction of Foliage: Mechanical destruction of foliage resulting from root pruning shall not effect more than 10% of the total foliage prior to planting on the project. Loss of foliage caused by seasonal change will be
- G. Spanish Moss: If Spanish Moss (Tillandsia usneoides) exists on plant material, it shall be completely removed prior to

(1) Remove a minimum of fronds from the crown of the palms

(3) The mulch shall be uniformly applied to a depth of approximately 3 inches, or other depth as indicated otherwise, over all shrub and groundcover areas, around trees and palms in sod areas and any other areas as

(1) initially, water the plant material to develop uniform

to facilitate transporting and handling.

- indicated on the plans. F. Watering:
 - the root zone. Avoid erosion, puddling, and washing soil away from the roots. (2) Provide continuous watering of plant material after planting in order to achieve optimum growth conditions to establish plants. Water shall be applied as necessary and the amount of water and frequency of watering shall be based on the specific needs of each plant type, the time of year, amount of rainfall and watering shall begin after the plant is planted and continue until final acceptance. All trees and palms

shall be watered, only during this period. Do not rely

on the irrigation system, if there is one, to achieve

this task it cannot deliver the volume of water

coverage and deep water penetration to the full depth of

shrubs, groundcover and sod may be watered by using the irrigation system, if there is one hand water (3) if there is no source for water available at the project, such as a hose bib (s) or fire hydrant (s) if

required, without flooding areas beyond where water is

needed and/or over watering other landscape material.

esponsible for supplying water for watering, by such means as a water truck or tank.

- G. Pruning and Thinning: (1) The amount of general pruning and thinning shall be injured twigs and branches and to compensate for the loss of roots as a result of transplanting operations. Pruning and thinning shall be done in such a manner as
- not to change the natural habit or shape of a plant. (2) The Landscape Architect shall be contacted prior to performing any major pruning and thinning. The Landscape Architect may elect to be present during
- any pruning and thinning. (1) In the event that weeds or other undesirable vegetation

becomes prevalent to such an extent that they threaten plant material, they shall be removed as directed by th Landscape Architect. This condition shall apply until

The Landscape Architect's on site observations or inspections

safety on or off the job site.

On Site Observations and inspections

of rejection at the project site.

Plant Material

from this requirement.

shall be only for the purpose of verifying that the Plans and

Architect's on site observations or inspections are not for

A. The Contractor shall make requests for on site observations

or inspections 48 hours in advance and they shall be in

acceptance, the request shall be made in writing 48 hours in

C. An inspections at the growing site does not preclude the right

on site observation or inspections to discover faulty work or

with the contract requirements, shall not bar the Landscape

Architect from subsequently rejecting such work at a later

E. The Landscape Architect's on site observations or inspections

Architect's on site observations or inspections are nor

intended to take charge, direct, run or manage the

implementation o the Plans and Specifications or take

the scope of work indicated in these Specifications.

A. Plant material shall be nursery grown except:

(1) Where specified as collected material

shall be only for the purpose of verifying that the Plans and

charge, organize or manage the Contractor while performing

(2) Where approved by the Landscape Architect for such plant

material which is only available as a collected item

B. Except where another grade is specifically called for in the

plant material to remain or to be relocated shall be exclude

Plans, all plant material, including collected material if

specified, shall be no less than Florida *1, or better, at

the time of installation and final acceptance. Existing

C. Habit of Growth: All plant material shall have a habit of

a. Place sod with staggered joints closely butted

water flow in swales. Place sod in rows at right

b. Water sod every day for a period of three weeks.

c. Fertilize sod three weeks after planting with 12 pounds

d. No sod shall be used which is not certified as being

brought to the site, furnish a written certification

a. It shall be the responsibility of the Contractor to

b. The Contractor shall completely maintain the sod

(1) Spread six inches of topsoil mixture uniformly over the

(2) Spread 50% organic fertilizer at a rate of 4 pounds per

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

(4) Fine grade to remove all trash, rocks, and debris to

(5) Regrade to finish grade before adding two inches mulch.

(6) Thoroughly water and firm the plants into the soil mixture.

(1) Areas to be mulched shall have existing weeds and

vegetation removed, including root systems, before

(2) Grades are to be uniform. Grade areas which are rough and

uneven. Fill in voids and holes with planting soil or other

1,000 square feet uniformly over the groundcover area.

until final acceptance by mowing or spraying as

replace any areas of sod that are not in healthy

or Federal Department of Agriculture

D. Planting Beds:

entire planting area.

approved fill material.

of 8-8-8 formula fertilizer per 1,000 square feet of lawr

of clearance from pest control officials of either State

amped or rolled to an even surface to the required

finished grade. Avoid continuous seams along lines o

growth that is normal for that species and shall be sound,

nealthy, vigorous and free from insects, plant diseases and

Specifications are being implemented properly. The Landscape

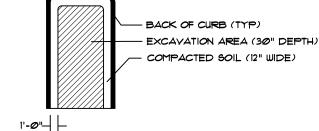
D. The fact that the Landscape Architect has not made an early

writing, if directed by the Landscape Architect

B. If an inspection is related to completion and final

- 3. ALL LANDSCAPED AREAS TO RECEIVE 150% IRRIGATION COVERAGE R AN AUTOMATIC, UNDERGROUND SPRINKLER SYSTEM EQUIPPED WITH A RAIN SENSOR. IF THE SOURCE OF WATER FOR THE IRRIGATIONH SYSTEM
- IST AND PLANTING PLANS, THE PLANS ARE TO OVERRIDE THE PLANT
- 1. ALL GROUNDCOVER BEDS TO ABUT PARKING, BUILDING, SIDEWALKS, ETC., IN A PERPENDICULAR LINE. 8. ALL TREES AND PALMS TO BE STAKED AND GUYED.
- 10. ALL PLANT MATERIAL TO BE BACKFILLED WITH 50% CLEAN MUCK AND

— BACK OF CURB (TYP)



- 12. THE CONTRACTOR SHALL LAY OUT ON THE GROUND THE LOCATIONS FOR THE PLANTS AND OUTLINES OF AREAS TO BE PLANTED. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE LANDSCAPE ARCHITECT BEFORE LOCATION OF SPECIFIED PLANT MATERIALS PRIOR TO PLANTING.
- CONTRACTOR IS RESPONSIBLE FOR PLANT MAINTENANCE UNTIL THE TIME OF WRITTEN ACCEPTANCE. 14. LANDSCAPING IN SAFE DISTANCE TRIANGLES SHALL BE MAINTAINED TO PROVIDE UNOBSTRUCTED VISIBILITY AT A LEVEL BETWEEN 2' AND 8'

TREES, PALMS, SHRUBS AND GROUNDCOVERS TO BE GUARANTEED

TO BE GUARANTEED FOR ONE (1) YEAR AFTER FINAL WRITTEN

ACCEPTANCE IS GIVEN BY OWNER OR LANDSCAPE ARCHITECT

- 15. ALL PROHIBITED PLANT SPECIES (AS IDENTIFIED BY THE CITY, COUNTY, STATE) SHALL BE ERADICATED FROM THE SITE. THIS INCLUDES BUT IS NOT LIMITED TO MELALEUCA, BRAZILIAN PEPPER
- 16. ALL EXISTING AND NEWLY CREATED PLANTING BEDS TO BE CLEANED AND FREE OF WEEDS AND DEBRIS AND EXCAVATED AS REQUIRED TO FULFILL PLANTING SOIL REQUIREMENTS OF THE PLANTING DETAILS. 17. FILL HOLES WHERE EXISTING TREES OR PLANT MATERIAL HAVE BEEN

SOD OVER IF NEW PLANT BEDS ARE NOT TO BE INSTALLED.

REMOVED TO PROVIDE LEVEL SURFACE WITH SURROUNDING AREA AND

- 18. ALL PLANTING BEDS THAT ARE ADJACENT TO PAVING ARE TO BE LOWER THAN THE ADJACENT PAVING, SO THAT RUNOFF (MULCH, SOIL) FROM THE BED DOES NOT RUN ONTO THE ADJACENT PAVING. 19. ALL PLANTING 19LANDS WITHIN THE PARKING LOT AND PLANTING AREAS ADJACENT TO THE PARKING LOT AREA MUST HAVE A MINIMUM 3' DEPTH OF SOIL EITHER FROM EXISTING SOIL PRESENT, IF OF GOOD QUALITY, TO PROMOTE PLANT GROWTH, OR OF REPLACEMENT SOIL (BOS MUCK, BOS SAND), NO ROAD ROCK, SHELL ROCK, LIMESTONE, OR OTHER ROAD BASE MATERIAL SHALL BE PRESENT WITHIN PLANTING ISLANDS OR PLANTING AREAS ADJACEN TO PAYED AREAS EXCEPT FOR THE FIRST 12" INTO THE PLANTING AREA AS REQUIRED TO SUPPORT THE CURB.
- 20. ALL PLASTIC NURSERY TAPE TO BE REMOVED FROM TREE TRUNKS OF NEWLY PLANTED TREES. IF IT IS NECESSARY TO TIE TREE TRUNKS TO A STAKE, BIODEGRADABLE JUTE IS TO BE USED. 21. TREES PLANTED IN PARKING ISLANDS OR AROUND VEHICULAR USE AREAS SHALL NOT BE PLANTED WHERE THEY OBSCURE SIGNS.

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