



## 4 TREES

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SHRUB A

GROUND

- CONTRACTOR SHOULD MAKE HIS OWN TAKE OFF TO ELIMINATE DISCREPANCIES. IN CASE THEY OCCUR, THE PLAN WILL TAKE PRECEDENCE OVER THE PLANT LIST.
2. EXACT LOCATION OF PLANT MATERIAL MAY VARY SLIGHTLY. COORDINATE FIELD LOCATIONS WITH OTHER TRADES PRIOR TO COMMENCEMENT OF WORK.
3. ALL PLANT MATERIAL FURNISHED BY THE LANDSCAPE CONTRACTOR SHALL BE "FLORIDA #1" OR BETTER AND SHALL BE INSTALLED AS SPECIFIED IN "FLORIDA DEPT OF AGRICULTURAL GRADES AND STANDARDS", CURRENT EDITION RESPECTIVELY.
4. ALL PLANTING TO BE DONE ACCORDING TO GOOD NURSERY PRACTICE.
5. ALL PLANTING MATERIAL SHALL BE GUARANTEED 365 DAYS (1 YEAR) FROM TIME OF FINAL INSPECTION & APPROVAL.
6. ALL SOD TO BE ST. AUGUSTINE FLORATAM SOLID, UNLESS OTHERWISE NOTED.
7. ALL BED AREAS TO RECEIVE A 3" LAYER OF EUCALYPTUS MULCH/ FLORIMULCH, & SHALL BE A MIN. OF 1'- 0" WIDER THAN PLANTS (MEASURED FROM OUTSIDE OF FOLIAGE)
8. ALL TREES TO HAVE A 2 1/2" MINIMUM TRUNK CALIPER OR UNLESS OTHERWISE SHOWN ON LANDSCAPE LEGEND.
9. ALL TREES FIELD GROWN UNLESS OTHERWISE NOTED.
10. LANDSCAPER TO FURNISH ALL MATERIAL AND LABOR INCLUDING, PLANTS MULCH, TOP DRESSING, SOIL PREPARATION, DECORATIVE ITEMS (IF SHOWN), INSPECTIONS, TRANSPORTATION, WARRANTY, PERMIT, ETC. NECESSARY FOR COMPLETION OF ALL LANDSCAPING REQUIRED HEREIN EXCEPT IF DESIGNATED TO BE OTHERS.
11. LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY CHANGES IN THE MATERIAL OR DESIGN PRIOR TO INSTALLATION OF THE SAME.
12. OWNER RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS.
13. PLANTS SHOULD BE TYPICAL FOR THEIR VARIETY AND SPECIES, PLANTS SHALL BE SOUND, HEALTHY VIGOROUS, FREE FROM PLANT DISEASE, INSECT OR THEIR EGGS. THEY SHALL HAVE HEALTHY NORMAL ROOTS AND SHALL NOT BE ROOT BOUND. QUALITY AND SIZE: ALL PLANT MATERIALS SHALL BE NURSERY GROWN UNLESS OTHERWISE NOTED.
14. ALL PLANT MATERIAL SHALL BE HANDLED IN A CAREFUL MANNER DURING TRANSPORTATION AND INSTALLATION.
15. PLANTS SHALL NOT BE PRUNED OR TOPPED BEFORE DELIVERY.
16. OWNER RESERVES THE RIGHT TO APPROVE ALL PLANT MATERIALS.
17. LANDSCAPER SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE DAILY. THE PREMISES SHALL BE KEPT NEAT AND ORDERLY AT ALL TIMES WHILE WORK IS IN PROGRESS.
18. THE LANDSCAPE CONTRACTOR SHALL LAY OUT THEIR WORK ACCORDING TO THE PLANS AND SPECIFICATIONS AND WILL BE RESPONSIBLE FOR ALL MEASUREMENTS EXERCISING SPECIAL CARE IN LAYING OUT WORK TO KEEP WITHIN PROPERTY LINES AND RECOGNIZING EASEMENTS. THE LANDSCAPE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY ERRORS. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN LAYOUT.
19. METHODS OF PROTECTION SHALL BE MAINTAINED AT ALL TIMES, AS REQUIRED TO INSURE ALL PERSONS AND PROPERTY AGAINST INJURY, AND SHALL BE MAINTAINED UNTIL THE COMPLETION OF ALL WORK.
20. PLANT MATERIAL ABBREVIATIONS ON THE PLANT LIST: FG (FIELD GROWN), CT (INDICATES CLEAR TRUNK MEASUREMENT FROM THE TOP OF BALL TO FIRST BRANCHING OR BASE OF THE LOWER FRONDS), OA (INDICATES OVERALL HEIGHT FROM TOP OF BALL TO MID POINT OF CURRENT SEASON'S GROWTH); SPR (INDICATES SPREAD), HVY (INDICATED HEAVY), MIN (INDICATES MINIMUM).
21. SUBSTITUTIONS: PLANT SUBSTITUTION REQUESTS, FOR PLANT MATERIAL NOT OBTAINABLE IN THE TYPE AND SIZE SPECIFIED SHALL BE MADE PRIOR TO SUBMISSION OF BIDS. ALL SUBSTITUTION REQUESTS SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT AND THE GOVERNING MUNICIPALITY FOR APPROVAL. IT IS THE LANDSCAPE CONTRACTOR'S OBLIGATION TO KNOW WHERE THEY CAN OBTAIN ALL MATERIAL AT THE TIME OF BIDDING AND AT THE TIME A CONTRACT IS

THE CONTRACTOR'S GUARANTEE SHALL NOT APPLY IN THE EVENT OF FLOOD, HURRICANE, WINDSTORM, OR OTHER "ACTS OF GOD" OR DAMAGES TO LANDSCAPING IN PROGRESS CAUSED BY ANY PERSONS UNDER THOSE PERSONS UNDER THE DOMINION AND CONTROL OF THE CONTRACTOR.

8. ALL TREES, PALMS AND OTHER PLANTS SHALL BE PLANTED WITH THE TOP OF THEIR ROOTBALLS NO DEEPER THAN THE FINAL GRADE SURROUNDING THE PLANTING AREA.

9. DELIVERY RECEIPTS FOR TOPSOIL, PLANTING SOIL & MULCH SHALL BE SUPPLIED TO THE INSPECTOR OR LANDSCAPE ARCHITECT UPON REQUEST

10. COMMERCIAL FERTILIZER FOR TREES, SHRUBS AND GROUND COVER COMMERCIAL FERTILIZER SHALL BE NUTRI PAK 3 YR. TIME RELEASE FERTILIZER PACKET DISTRIBUTED BY HORT- ENTERPRISES INC. EQUAL SUBSTITUTIONS MAY BE ACCEPTED NUTRI PAK FERTILIZER PACKETS ARE AVAILABLE IN SPECIAL NUTRIENT FORMULATIONS FOR SPECIFIC PLANT TYPES EG. TREES, SHRUBS, FLOWERING PLANTS, POTTED PLANTS AND PALMS. NEW TREE AND SHRUB APPLICATIONS: PLACE PAK 6"-8" DEEP, SPACED EVENLY AROUND OUTER EDGES OF ROOTS 12 INCHES ON CENTER. PERENNIALS: PLACE PACKETS 6"-8" DEEP NEAR ROOTS ESTABLISHED PLANTINGS: MAINTENANCE PLANTINGS: TREES: USE 1 PACKET PER INCH OF TRUNK DIAMETER SPACED EVENLY AROUND DRIP LINE BURY 6"-8" BELOW SOIL IN UPRIGHT POSITION, TAPE HOLE CLOSED WITH HEEL OF YOUR FOOT. SHRUBS: USE 1 PACKET FOR EVERY 12 INCHES OF HEIGHT OR SPREAD. GENERAL SLOW-RELEASE FERTILIZERS MAY BE APPLIED WITH LOW OR NO PHOSPHORUS SUCH AS A 13-0-13 LOW PHOSPHORUS SHALL MEAN 2% OR LESS. APPLICATION RATES SHALL BE ADHERED TO AS WRITTEN ON THE PRODUCT LABEL. POSTPONE FERTILIZING WHEN ONE INCH OR MORE OF RAIN IS EXPECTED.

11. SUPER ABSORBENT POLYMER: "TERRA SORB" OR APPROVED EQUAL AS PACKAGED IN 3 OZ. HANDY PAK COMPOSED OF SYNTHETIC ACRYLAMIDE COLLOYMER, POTASSIUM, AND ACRYLATE. PARTICLE SIZE OF 1.0 MM TO 3.0 MM AND ABSORPTION RATE OF 300 TIMES ITS WEIGHT IN WATER. APPLY DRY USING THE FOLLOWING AMOUNT:

- 1 PAC PER TREE - 36" BALL SIZE
- 2 PAC PER TREE - OVER 36" BALL SIZE
- 1 PAC PER 7-10 GAL. CONTAINER
- 0.5 PACS PER 7-10 GAL. CONTAINER
- 0.25 PACS PER 3 GAL. CONTAINER
- 0.12 PACS PER 1 GAL. CONTAINER

12. LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING UTILITIES LOCATED. CARE SHALL BE TAKEN NOT TO DISTURB ANY UNDERGROUND CONSTRUCTION AND UTILITIES. ANY DAMAGE TO THESE FACILITIES DURING THE PLANTING OPERATIONS WILL BE REPAIRED AT THE EXPENSE OF THE LANDSCAPE CONTRACTOR IN A MANNER APPROVED BY THE OWNER.

13. PLANTING SOIL: PLANTING SHALL BE COMPOSED OF 50% SAND AND 50% DECOMPOSED ORGANIC MATTER. ANY VARIATIONS IN THIS COMPOSITION SHALL BE APPROVED BY THE OWNER PRIOR TO USE. PLANTING SOIL SHALL BE FREE OF STONE. PLANTS, ROOTS AND OTHER FOREIGN MATERIALS WHICH MIGHT BE HINDRANCE TO PLANTING OPERATIONS OR BE DETRIMENTAL TO GOOD PLANT GROWTH. SOIL SHALL BE DELIVERED IN A LOOSE FRABLE CONDITION AND APPLIED IN ACCORDANCE WITH THE PLANTING SPECIFICATION

14. WATER FOR PLANTING WILL BE AVAILABLE AT THE SITE AND WILL BE PROVIDED BY THE OWNER

15. PRUNING: REMOVE DEAD AND BROKEN BRANCHES FROM ALL PLANT MATERIALS PRUNE TO RETAIN TYPICAL GROWTH HABIT OF INDIVIDUAL SPECIES, RETAINING AS MUCH HEIGHT AND SPREAD AS POSSIBLE. MAKE ALL PRUNING CUTS WITH A SHARP INSTRUMENT, FLUSH WITH THE TRUNK OR ADJACENT BRANCH, IN SUCH A MANNER AS TO ENSURE ELIMINATION OF STUBS. "HEADBACK" CUTS, RIGHT ANGLE TO LINE OF GROWTH WILL NOT BE PERMITTED AND TREES WILL NOT BE POLED OR TOPPED, OR HATRACKED.

16. SITE PREPARATION: IT SHALL BE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO FINISH (FINE) GRADE ALL LANDSCAPE AREAS TO BE SODDED (PRIOR TO APPLICATION OF SOD) ELIMINATING ALL BUMPS, DEPRESSIONS, STICKES, STONES AND OTHER DEBRIS TO THE SATISFACTION OF THE OWNER

17. MAINTENANCE: MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE UNTIL ALL PLANTING HAS PASSED FINAL

Minimum Development Site Landscaping		REQUIRED	PROVIDED
	1 tree per 3,000 sq ft of lot area or major fraction thereof (31,732 sf)	11	15
	5 shrubs per 3,000 sq ft of lot area or major fraction thereof (31,732 sf)	55 shrubs	88 shrubs
<b>D. Vehicular Use Area Landscaping</b>		<b>REQUIRED</b>	<b>PROVIDED</b>
3. Perimeter Landscaping Strips	Perimeter landscaping strips shall be provided and maintained around the perimeter of a vehicular use area to screen view of it from any abutting public right-of-way, private roadway, alley, property, or waterway in accordance with the following standards, except where such screening is provided by an intervening on-site building or other structure and on land crossed by an authorized vehicular, bicycle, or pedestrian accessway or easement for an underground utility line.	N/A	5'-4" permeable (6'-4" including wall)
b. Composition	Canopy trees may be spaced a maximum average of 40 feet on center within perimeter landscaping strips screening a vehicular use area from an abutting property.	7	15
	Where more than ten canopy trees are required, large palm trees may be substituted for 50 percent of required canopy trees, and shall be spaced a maximum average of 20 feet on center where used along an entire side of the vehicular use area ; and	N/A	Existing preserved palms (18) utilized 3:1
	Understory trees spaced a maximum average of 20 feet on center may be substituted for canopy trees in areas beneath overhead utility lines ; and	N/A	N/A
	Shrubs planted to form a continuous, opaque hedge along the perimeter of the vehicular use area (A) To allow security surveillance of parking areas, the shrubs shall be maintained at a maximum height of three feet above the elevation of the adjacent vehicular use area ; and (B) A solid masonry wall up to three feet high may be substituted for all or part of the required shrub hedge provided that shrubs or vines spaced a maximum average of five feet on center shall be planted between the wall and any adjacent vehicular use area ; and	N/A	97 Clusia shrubs 36 in x 36 in @ 36 in OC planting
	Ground cover or grass planted in all areas not occupied by trees, shrubs , or walls	N/A	100% vegetated and wall
4. Interior Landscaping Standards	Except as otherwise provided in subsection ii below, landscaped planting areas making up at least 15 percent of the total area of a vehicular use area shall be provided and maintained within the interior of a vehicular use area in accordance with the following standards.	N/A	400 sqft
Exceptions	(B) These standards shall not apply to parking decks or garages or to vehicle display areas.		Garage
Landscaped Islands in Parking Bays	Each landscaped island shall be at least eight feet wide and at least as long as the adjacent parking spaces, with the long axis of the landscaped island running approximately parallel to that of the adjacent parking space	N/A	N/A
	Each landscaped island shall contain at least one canopy tree. Understory trees may be substituted for canopy trees in areas beneath overhead utility lines. Trees shall be maintained to provide maximum canopy crown	N/A	N/A
Landscaped Areas Between Parking Bays	A landscaped area at least eight feet wide shall be provided between abutting parallel parking bays. The landscaped area shall contain canopy trees spaced no more than 40 feet apart, a continuous hedge, and grass or groundcover throughout the remaining area	N/A	N/A
Landscaped Driveway Medians		N/A	N/A
Landscaping Between Vehicular Use Areas and Buildings	A landscaped area shall be provided between a vehicular use area and an abutting building in accordance with the following standards. No landscaped area is required along those parts of an abutting building facade containing building entrances, driveways into garages or carports, or loading docks.	N/A	N/A
Building Base Plantings	Building base plantings are intended to soften the visual impact of building foundations and provide for the even dispersal of shrubs along the bases of building facades that face streets. They consist of shrubs planted around the base of a building to help soften its appearance		Layered façade planting proposed to soften appearance
Building Base Planting Required	Except for single-family dwellings, shrubs shall be planted along the base of any building facade facing a street. This requirement shall not apply to a building facade constructed along or within one foot of the street right-of-way boundary, or along those parts of a building facade containing building entrances, driveways into garages or carports, or loading docks		Façade planting is facing street
Building Base Planting Standards	a. Required shrubs shall be planted within three feet of the base of the building. If a street sidewalk is located between the base of the building and the street, required shrubs may be planted up to 15 feet from the base of the building. b. Required shrubs shall maintain a maximum average on-center spacing of six feet, and be evenly-distributed along the building facade.	on center spacing < 6'	Shrubs planted within 3' of façade On center spacing 3'
Street Trees	Street trees shall be provided at a ratio of one street tree per 40 feet of street frontage. Required street trees shall be spaced no closer than 15 feet apart and no farther than 60 feet apart.	16 total	17 total
	SE 2nd ST (sewer lines)	5	5
	Ocean Blvd	6	8
	Se 1 ST	5	5
	<b>TOTAL TREES</b>	<b>34</b>	<b>48</b>
	50% proposed must be Trees (50)	21	46
	50% Native	21 - 50%	30 - 75%
	Florida Friendly		100%

(NOTE: SABAL PALMETTO/(CABBAGE PALM SPECIES) THE BRANCHES TOGETHER WITH BIO-DEGRADABLE TWINE TO TIGHT BUNDLE AROUND BUD FOR PROTECTION.)

6. MULCH. MULCH MAY BE USED WITHIN PLANTING BEDS IN CONJUNCTION WITH GROUND COVER. MULCH SHALL BE BLENDED AND MAINTAINED AS REQUIRED TO MAINTAIN A THREE- INCH DEPTH AT THE TIME OF FINAL INSPECTION. MULCH AROUND TREE ROOT BALLS NOT PLANTED IN PLANTING AREA SHALL BE THREE INCHES DEEP AT THE PERIMETER OF THE ROOT BALL.

5. GRASS. AREAS WITHIN THE LANDSCAPE EASEMENT NOT USED FOR TREES, SHRUBS, GROUND COVER, MULCH, OR OTHER LANDSCAPE ELEMENTS SHALL BE PLANTED WITH SOLID SOD OF ST. AUGUSTINE FLORATAM OR PALMETTO AND SHALL BE IRRIGATED.

6. EXCAVATION REQUIREMENT: REQUIRED: ISLANDS SHALL BE EXCAVATED TO 36 INCHES AND FILLED WITH CLEAN FILL AND TOPSOIL TO A LEVEL 3" BELOW THE TOP OF THE CURB. MANIPULATION OF THE GRADE BEHIND THE CURBING TO CREATE SMALL SCALE MOUNDINGS IS ENCOURAGED. ALL LANDSCAPED PLANTING BEDS SHALL BE EXCAVATED TO A DEPTH OF 6" AND REPLACED WITH CLEAN FILL. A MIN 2" OF TOPSOIL SHALL BE INSTALLED BELOW ALL SODDED AREAS.

7. A LANDSCAPE PERMITS SHALL BE VERIFIED AND OBTAINED BY THE LANDSCAPE CONTRACTOR. NO TREES OR OTHER PLANT MATERIAL MAY BE PLANTED IN PUBLIC RIGHTS-OF-WAY (SWALE AREAS) WITHOUT PERMIT FROM THE CITY. NO SHRUB SPECIES WITH A MATURE HEIGHT THAT WILL BLOCK THE CLEAR SIGHT ZONE FOR 30 INCHES IN HEIGHT TO SIX FEET IN EIGHT WILL BE APPROVED IN SWALE AREAS.

8. TOPSOIL SHALL BE CLEAN AND FREE OF CONSTRUCTION DEBRIS, WEEDS, ROCKS, NOXIOUS PESTS AND DISEASES, AND EXHIBIT A PH OF 6.5 TO 7.0. THE TOPSOIL FOR PLANTING AREAS SHALL BE AMENDED WITH HORTICULTURAL ACCEPTABLE ORGANIC MATERIAL. ALL SOIL USED SHALL BE SUITABLE FOR THE INTENDED PLANT MATERIAL. THE SOURCE OF THE TOPSOIL SHALL BE KNOWN TO THE APPLICANT AND SHALL BE ACCEPTABLE TO THE GOVERNING MUNICIPALITY.

- MINIMUM SOIL DEPTH: REQUIRED: THE MINIMUM PLANTING SOIL DEPTH SHALL BE SIX INCHES FOR GROUND COVERS, FLOWERS, SHRUBS AND HEDGES.
- ROOTBALL SOIL: REQUIRED: TREES SHALL RECEIVE 12 INCHES OF PLANTING SOIL AROUND THE ROOT BALL.
- NATIVE SOIL: REQUIRED: NATIVE TOPSOIL ON THE SITE SHALL BE RETAINED ON-SITE AND USED WHEN THERE IS SUFFICIENT QUANTITY TO COVER AT LEAST SOME OF THE ON-SITE LANDSCAPED AREAS.
- ARID PALMS: REQUIRED: CLEAN SAND SHALL BE USED TO BACKFILL ARID CLIMATE PALMS.

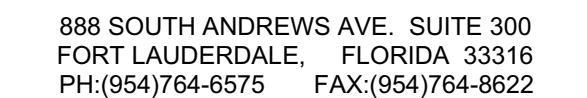
9. USE OF ORGANIC MULCHES: A TREE-INCH MINIMUM THICKNESS OF APPROVED ORGANIC MULCH MATERIAL, AT THE TIME OF FINAL INSPECTION, SHALL BE INSTALLED IN ALL LANDSCAPE AREAS NOT COVERED BY BUILDING, PAVEMENT, SOD, DECORATIVE STONES, PRESERVED AREAS AND ANNUAL FLOWER BEDS. EACH TREE SHALL HAVE A RING OF ORGANIC MULCH AT THE PERIMETER OF THE ROOT BALL.

10. ALL SHADE TREES INSTALLED WITHIN SIX FEET OF PUBLIC INFRASTRUCTURE SHALL UTILIZE A ROOT BARRIER SYSTEM AS APPROVED BY THE CITY.

11. THE ERADICATION OF NUISANCE VEGETATION (EXOTICS: ALL INVASIVE AND EXOTIC VEGETATION SHALL BE REMOVED FROM SITE INCLUDING WITHIN ABUTTING RIGHTS-OF-WAY.

12. SHRUBS SHALL BE CONSIDERED IN ACCORDANCE WITH STANDARDS SET FORTH BY THE GOVERNING MUNICIPALITY.

13. HEDGES: WHERE REQUIRED SHALL BE PLANTED SO AS TO BE TIP TO TIP AT THE TIME OF PLANTING AND MAINTAINED SO AS TO FORM A CONTINUOUS VISUAL SCREEN. SHRUBS USED AS HEDGES SHALL BE FLORIDA DEPARTMENT OF AGRICULTURE GRADE NO. 1 OR BETTER WITH A MINIMUM HEIGHT OF 24 INCHES AND MINIMUM SPREAD OF 18 INCHES WHEN MEASURED IMMEDIATELY AFTER PLANTING AND SHALL BE A MINIMUM OF THREE FEET IN HEIGHT WITHIN TWO YEARS FROM THE DATE OF PLANTING. HEDGES SHALL BE PLANTED WITH PLANTS TOUCHING, WITHIN SIX MONTHS OF PLANTING SO AS TO CREATE A SOLID SCREEN WITH NO VISUAL SPACES BETWEEN PLANTS AT THIS TIME. PLANT SPACING MAY BE ADJUSTED ACCORDING TO PLANT SIZES SO LONG AS THE PROCEEDING IS ACHIEVED



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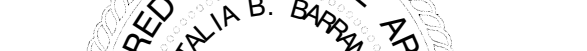
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LANDSCAPE NOTES and  
SPECIFICATIONS  
DRC SET

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