PLANTING SPECIFICATIONS

PART 1 - GENERAL

1.1 SUMMARY B. The work under this section consists of furnishing all labor materials; equipment and services required to complete fine grading, planting, and necessary appurtenances as shown on drawings and described

C. American Nursery Standards Institute Z60.1, Standards

1.2 REFERENCES

for Nursery Stock, May 1986

nomenclature) National Arborist Association Standards, National Arborist Association, latest edition.

D. Hortus Third, 1976 - Cornell University. (Plant

Federal Specification FS O-F-41 - Fertilizer, Mixed, Commercial.

Representative

Representative.

1.3 SUBMITTALS A. Guarantee: Submit 3 copies of written guarantee, in the terms specified under guarantee provisions of these specifications, signed by the Contractor.

B. Samples: 1. Submit samples of each plant for Owner's

approval. When approved, tag and maintain as representative samples for finally installed plant materials. Samples may be used to complete installation, provided they remain tagged until final acceptance of entire installation. Samples are to be brought to the project for Owner's Representative

Plants noted as "Specimen" on the plant schedule must be individually approved by the Owner's

3. Submit for approval sufficient representative quantities of topsoil, soil amendments, and product information on package materials and fertilizer.

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Owner's Representative shall approve samples before use on the project. 4. Certification: For information only, submit 2 copies of certificates of inspection as required by governmental authorities to accompany shipments. Submit manufacturers or vendors certified analysis for soil

amendments and fertilizer materials. Submit other data substantiating that materials comply with specified

1.4 QUALITY ASSURANCE A. Furnish certificates of inspection of landscape materials, to accompany shipments, as required by governmental authorities. Comply with applicable Federal, state, county and local regulations governing landscape materials.

B. Contractor shall have at least three years experience in installing projects of similar size and be able to furnish a list of previous jobs and references if requested by the Owner's Representative. Contractor shall employ only skilled personnel and provide adequate supervision. C. Do not make substitutions. If specified landscape material is not obtainable, submit to Owner's

Representative proof of non-availability and proposal for use of equivalent material. When authorized, adjustment of contract amount will be made. 1.5 DELIVERIES, STORAGE AND HANDLING

A. Deliver packaged materials in containers showing weight, analysis and name of manufacturer, Protect materials from deterioration during delivery and while stored at the site.

B. Plant Materials: Deliver trees and shrubs after

preparations for planting have been completed and plant immediately. If planting is delayed more than 6 hours after delivery, set trees and shrubs in shade, protect from weather and mechanical damage, and keep roots moist as follows: 1. Set balled stock on ground and cover ball with soil,

2. Do not remove container-grown stock from containers until planting time C. Damage: Protect plant material in transit and at the site. Material not properly protected and which is damaged will be rejected

peat moss, or other acceptable material.

1.7 PROJECT CONDITIONS

A. Proceed with and complete the landscape work as rapidly as portions of the site become available, working within the seasonal limitations for each kind of

landscape work required. B. Cooperate with other Contractor's and trades working in and adjacent to the landscape work greas. Examine drawings, which show the development of the entire site and become familiar with the scope of other work required.

C. Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Owner's Representative before planting. D. Site Utilities:

 Determine locations of underground utilities, especially site lighting, and perform work in a manner which will avoid possible damage. Do not permit heavy equipment such as trucks to damage utilities. Hand excavate, as required to minimize possibility of damage to underground utilities. Maintain grade stakes set by others until all parties concerned mutually agree upor

2. Coordinate work with the Irrigation Contractor and Electrical Contractor to prevent damage to underground piping or conduit and similar obstruction work located in landscape areas.

E. Protections: Do not move any equipment over existing or newly placed concrete without approval of General Contractor, Provide necessary protections such as board rolling as required.

fertilizer to site in original unopened containers, each bearing manufacturer's guaranteed statement of analysis. Fertilizer shall contain 10% nitrogen, 10% phosphoric acid, 5% potash, unless otherwise specified or approved.

2.3 TREE STAKING MATERIALS A. 2" x 2" x 8' pine stakes

PART 3 - EXECUTION

3.1 INSPECTION

A. Contractor must examine the sub grade upon which work is to be performed, verify sub grade elevations noted on the plans, observe the conditions under which work is to be performed, and notify the Owner's Representative of unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Contractor and Owner's Representative.

3.2 SOIL PREPARATION

A. 1 part is Compost, 4 part select native topsoil B. Soil is at final grade. Contractor is responsible for removing excess topsoil. Excess topsoil may be distributed on site.

3.3 TREE PLANTING

A. Location: Refer to planting plans for location of trees. Stake position of trees before pits are dug and label each position. Receive approval from Owner's Representative before proceeding.

B. General: Excavate pit. During pit excavation, if pit walls are glazed, roughen sides to allow for good bond with backfill. Center trees, with root flare at or above finish grade and with trunk plumb. Position trees and receives approval from Owner's Representative before removing burlap or backfilling. Remove top 1/3 of ball burlap immediately prior to backfilling pit (2 hour

maximum) and gently roughen exposed soil around ball, C. Weed removal: being careful not to damage feeder roots. 1. If site has been freshly graded, water site for C. Size of tree pits: Plant in tree pits twice the diameter minimum two weeks to encourage weed germination

of the root balls and no deeper. Root ball shall rest on undisturbed soil. Carefully settle by watering to prevent 2. Area scheduled for wildflowers, native grasses and buffalo grass: Totally remove all grasses and weeds, D. Do not lift trees by the trunk. Lift trees by the root unless directed otherwise by Owner's Representative.

ball only. If the contractor is observed lifting trees by the trunk, the tree willbe rejected. 3.4 STAKING

A. Refer to planting details for placement of stakes. 3.5 SPACING AND PLANTING SHRUBS AND

GROUNDCOVER A. Place plants in position on bed areas before containers or burlap have been removed. Obtain approval from Owner's Representative. Remove cans, remove top 1/3 burlap from balled and burlapped plants. Plant where located and approved, setting plants with root flares or surface of soil in container at or slightly above finish grade, and compact soil carefull around each plant ball. Water each plant thoroughly with hoses to eliminate air pockets. Carefully prune plants to remove dead or broken branches and handrake bed areas to smooth, even surfaces. Owner's Representative reserves the right to interchange or shift locations of plants prior to planting.

3.6 PREPARING SOIL AND FINE GRADING FOR

A. Note: During hauling operations, keep walkway and roadway surfaces clean. Promptly remove sandy loam or other material. B. After completion of construction work in the great

prepare surface of subsoil. Finish to lines shown and parallel to proposed finished grade as approved. Remove rocks and other foreign materials 1-1/2 inches or greater in any dimension.

3.11 PROTECTION

5.7 SOD PLANTING

A. Preparing soil: Remove rocks, weeds, and debris from area to be sodded. Work up soil to a depth of 4 inches, and break up all clods. Prepare soil for all areas as noted

Apply a non-selective herbicide (e.g. "Roundup" or

approved equal) to thoroughly exterminate existing

grasses, weeds, or other vegetation (unless noted on

seeding or hydromulching for grasses or wildflowers.

3. Area scheduled for native grasses: Use a selective

application to remove dallisgrass, crabgrass, Johnson

grass, nutsedge, dandelion and other noxious weeds

identified in the field by Owner's Representative. If

native grasses exist on the site, verify with Owner's

Representative if they are to remain or to be eliminated

D. Soil shall be loosened and pulverized to prepare an

acceptable bed for sod. Pulverize soil with disc, chisel

plow, tiller or other method approved by Contacting

Do not till if soil is wet. Do not penetrate soil deeper

than two inches so as not to encourage weed growth.

E. Fine grade, level and scarify with a weighted spike

harrow, spike float drag, or by hand raking. Leave no

depressions, ruts, soft spots or humps. Finish to lines

or elevations shown and parallel to proposed finished

grade, as approved. Maintain positive drainage on site.

F. If weeds should germinate prior to seeding, re-apply

Remove rocks, clods, weeds, trash or debris from area to

Officer, making minimum of one pass to break up clods.

herbicide or post-emergent herbicide for spot

the drawing for protection) in area scheduled to receive

be sodded. Legally dispose off site.

herbicide to eradicate weeds.

B. Refer to individual Sections 02911 - 02940 for specific

A. All items required to complete this contract remain the property and responsibility of the Contractor until final acceptance. Take adequate precautions to protect all work and materials against damage. Cooperate fully with other trades to insure a satisfactory completion.

NO MULCH SHALL TOUCH TRUNKS, MIN. 6" AWAY WITH 1" MULCH FROM BASE OF ALL PLANT MATERIALS THE TOP OF THE ROOT BALL STANDS 1"-2" ABOVE THE FINISHED GRADE AND THE ROOT BALL IS COVERED SEE NOTE #34 FOR SABAL FOR PALMS, TIE BRANCHES TOGETHER WITH STRING - BURLAP WRAP - PLASTIC FLAGGING ON THREE 2" X 8' LODGE POLE STAI INSTALL APPROXIMATELY 2" AWAY THE EDGE OF THE ROOT BALL. 3/4" METAL BAND (TWO REQUIRED)— ALL GUYS FOR VISIBILITY 32" LONG NON-ABRASIVE RUBBER TIES. 3" LAYER OF VITH PERMANENT BRANCHES. DEADMAN WOOD STAKE V/ 2"-3" CONTINUOUS
RIM AROUND PLANTING HOLE CUT AND REMOVE ALL B 12"
TIES & BURLAP FROM TOP C 4'-5'
1/3 OF ROOT BALL. D 2"v4" TO PLANTING BALL SHAI HAVE A MINIMUM BALL SIZE OF 4'x4' AS REQUIRED AND CLEAN SAND MIXTURE WASHED IN TO AVOID AIR POCKETS (TYPICAL) TREE PLANTING DETAIL COMPACTED SOIL PALM PLANTING DETAIL N.T.S. ·3 1/2" DRYWALL SCREW, THREAD SIZE 12 WITH POINT. FULL THREAD & BLACK PHOSPHATE COATED FINISH. PLANTING PIT -SPACING FORM EARTH SAUCER 3' MIN. DIA. HORIZONTAL 2"X2" SCREWED TO 2"X2" STAKE. WOOD SHALL BE #2 W/ 2"-3" CONTINUOUS RÍM AROUND PLANTING HOLE UNTREATED. -3" LAYER OF UNEXCAVATED OF MULCH COMPACTED SOIL FOR SUPPORT FINISH GRADE — PREPARED TOPSOIL WASHED IN TO AVOID UNEXCAVATED OF AND REMOVE ALL TIES & BURLAP FROM TOP WASHED IN TO AVOID SEE SPECIFICATIONS-1/3 OF ROOT BALL. AIR POCKETS SEE SPECIFICATIONS PLAN VIEW N.T.S. SHRUB PLANTING DETAIL -VERTICAL (2) 2"X2" STAKES SHALL ABUT THE STAKES SHALL EXTEND INTO NATIVE SOIL BY 1 1/2 TIMES THE ROOTBALL DEPTH AT A MIN THE TOP OF THE ROOT BALL STANDS 1"-2" ABOVE

1.8 WARRANTY

A. Guarantee plants for one year after final acceptance. Replace dead materials and materials not in vigorous, thriving condition as soon as weather permits and on notification by Owner's Representative. Replace plants, including trees, which have partially died thereby damaging shape, size or symmetry. Annual plants will be guaranteed for a period coinciding with their normal

season of growth. B. Replace plants with same kind and sizes as originally planted, at no cost to the Owner. Provide one-vear guarantee on replacement plants. At direction of Owner's Representative, plants may be replaced at start of next year's planting or digging season. In such cases, remove dead plants immediately. Protect irrigationsystem and any other piping, conduit or other work during replacement. Repair any damage immediately.

C. Plants will be guaranteed to be true to species and variety or cultivar specified. D. Guarantee excludes replacement of plants destroyed by catastrophic acts of nature.

1.9 MAINTENANCE

A. Until final acceptance, maintain all plantings and trees by watering, cultivating, weeding, controlling pests and diseases, cleaning and replacing as necessary to keep landscape in a vigorous, healthy condition. Rake bed areas as required.

. Watering: As necessary to promote growth. Water will be available on site. Provide necessary hoses and other watering equipment required to complete work. 2. Watering Trees: Tree balls to be kept moistened to the

depth of the tree ball. 3. Weeding: Remove weeds and foreign grass over plant areas at least once a week. Herbicides may be used only when approved by Owner's Representative. 4. Cultivating: Cultivate bed areas to a depth of

approximately three inches twice a month. Care should

be taken not to damage plant roots. Mowing and Edging: Mow and edge newly planted

lawns weekly when growth reaches 21/2 inches. Maintain at this height weekly PART 2 - PRODUCTS

2.1 PLANTS

A. General: Plants shall be equal to well-formed No. 1 grade or better nursery stock, in accordance with requirements of applicable standards as noted hereafter, subject to Owner's Representative approval. The listed plant heights are from the top of the root ball to the nominal top of the plant.

B. Plants shall conform to the sizes and quality note: in the plant list and/or indicated, with the exception of that larger plants than those specified may be used if approved by the Owner's Representative. Use of larger plants shall not increase the contract price Specified sizes shall be after pruning, and plants shall be measured with their branches in normal position. C. Plants shall have normal, well-developed branches and vigorous, fibrous root systems, which shall conform to the specifications of the last edition of ANSI Z60.1, Standards for Nursery Stock published by the American

Association of Nurserymen, Inc. (A.A.N.). D. Plants shall be healthy, vigorous and free from defects, decay, girdling roots, sunscald injuries, abrasions of the bark, plant diseases, and insect pests, their eggs and larvae.

E. Plants shall be hardy under climatic conditions similar to those in the locality of the project. F. If the Contractor becomes aware of any condition that will aversely affect the long-term survival of any plant, the Contractor shall notify the Owner's Representative before installation of the plant(s). G. Size: Provide trees and shrubs of the sizes shown or scheduled. Trees and shrubs of larger size may be used if acceptable to Owner's Representative, in which case,

CONCRETE CURB

-STEEL EDGING

-FILTER FABRIC

RFD GRANITE 3" AGGREGATE GRAVEL

AS SPECIFIED IN "GENERAL PLANTING"

and height requirements as specified. Balls shall be firm, neat, slightly tapered and well burlapped. Trees with loose or broken balls at time of planting shall be rejected. Root Balls shall be at least 10" in diameter for each 1" of caliper measured 12" above the tree ball. Containers shall be of heavy gauge plastic and wooden boxes only. Provide trees with full rounded crowns, meeting height and spread standards after pruning. No flat sided trees or trees with open areas on any side will

form and branching, and typical of the growth habit of their species unless otherwise specified. I. Caliper of the trunk shall be taken 6 inches above the ground up to and including 4-inch caliper size, and 12 inches above the ground for larger sizes. J. Multi-trunk Tree: Measure multi-trunk tree caliper as the calipers of the remaining trunks. (Example: an 8"

K. Shrub, Groundcover: Nursery grown, healthy, vigorous, and have normal habit of growth for the

M. Turf Grass Sod: Sod shall be green, actively growing, and free of weeds and foreign grasses. Sod, which is dormant, heat or drought stressed, will not be accepted. Cut sod with a minimum of 3/4 inch of soil covering the roots. Deliver to the site in 12-inch squares or 12-inch wide rolls or pallets. Do not stack more than 24 hours between time of cutting and time of delivery.

2.2 SOIL PREPARATION MATERIALS

TURF OR ANNUALS BED

increase size of roots or balls proportionately. H. Ornamental and Shade Tree: Healthy, vigorous full-branched, and well shaped, with trunk diameter

C. Fertilizing: Spread Turf Fertilizer (10-20-10) onto the be acceptable. Trees shall be consistently superior in

follows. Add the caliper of the largest trunk to one-half caliper, multi-trunk could be three trunks of 5"/4"/2" or

B. Commercial Fertilizer: Complete fertilizer with an uniform in composition, dry and free flowing. Deliver

elsewhere in specifications. B. Grading and Rolling: Carefully smooth all surfaces to be sodded. Roll area to expose soil depressions or surface irregularities

soil evenly at the rate of ten pounds per 1,000 square feet of lawn area. Rake in lightly. Be sure soil is level and smooth before laying sod. Avoid laying sod on dry soil. D. Laying Sod: Lay first strip of sod slabs along a straight line (use a string in irregular areas). Butt joints tightly, do not overlap edges. On second strip stagger joints such as in laying bricks. Use a sharp knife to cut sod to fit curves, edges, and sprinkler heads. Lay smooth. Align with adjoining grass areas. Place top elevation of sod 1/2 inch below adjoining edging, paving, and curbs. On slopes 6 inches per foot and steeper, lay sod perpendicular to slope and secure every row with wooden pegs at maximum 2 feet on center. Drive pegs flush with soil portion of sod. Prior to placing sod, on slopes exceeding 8 inches per foot or where indicated place wire mesh over topsoil. Securely anchor in place with wood pegs sunk firmly into the ground. E. Watering: Do not lay whole lawn before watering. When a conveniently large area has been sodded, water lightly preventing drying. Continue to lay sod and water

until installation is complete. F. Rolling Sod: After laying all sod, roll lightly to eliminate irregularities and to form good contact between sod and soil. Avoid a very heavy roller or excessive initial watering which may cause roller marks G. Replacement: Replace any areas of grass not the original method of application at any additional cost to the Owner.

showing sufficient growth at the end of three weeks per H. Watering: Continue irrigation regularly to keep soil

evenly moist until active growth resumes.

GROUNDCOVER OR SHRUB BED

I. The Subcontractor shall be responsible for one

one-quarter (1/4) inch of the same sand used in

- TOP OF PAVEMENT

-STEEL SPIKE

-PLANTING MIX

-UNDISTURBED SOIL

STEEL EDGING AS SPECIFIED

IN SECTION "GENERAL PLANTING"

top dressing of the entire field using approximately

construction of the sand fill for the field. A light steel mat shall be used to drag the entire field of uniformly distributed top dressing. J. The Subcontractor and the Owner's representative

shall inspect all sod at the end of each workday. Unacceptable sod shall be removed immediately and replaced the next day. The preliminary acceptance does not guarantee final acceptance at completion of the project. Prior to final acceptance, all sod shall be checked for live nematodes. Infested sod shall be removed and replaced immediately.

3.8 MULCHING

A. After work of planting has been completed an approved by Owner's Representative, mulch soil in and around tree pit with 2" of shredded hardwood mulch. lightly cultivated into area. Do not disturb watering saucer, and do not cover root flare. Delay this operation until near final inspection.

3.9 CLEAN UP

A. During work, keep premises negt and orderly including organization of storage areas. Remove trash, including debris resulting from removing weeds or rocks from planting areas, preparing beds, or planting plants, from site daily as work progresses. Keep walk and driveway areas clean by sweeping or hosing.

3.10 ACCEPTANCE

3. Source of plant material.

SIZE OF

NURSERY

LESS THAN 2

2-4 INCH

CALIPER

INCH CALIPER

STOCK

As-builts.

A. When the above requirements of the specifications have been fulfilled, the Contractor will request Final Acceptance of the work. Areas that are not acceptable at this time shall continue under the Contractor's maintenance until the Owner's Representative gives Final Acceptance. Following is a listing of items required for the final acceptance of the project: 1. Warranty letter.

LANDSCAPE SPECIFICATIONS

CONTRACTOR SHOULD MAKE HIS OWN TAKE OFF TO ELIMINATE DISCREPANCII

SET THE TREE/PALM NO DEEPER THAN IT WAS IN ITS

ORIGINAL GROWING AT +(10%) ABOVE FINAL GRADE LEVEL

2. EXACT LOCATION OF PLANT MATERIAL MAY VARY SLIGHTLY, COORDINATE FIELD LOCATIONS WITH OTHER TRADES PRIOR TO COMMENCEMENT OF WORK.

SIDEWALKS, FASEMENTS, UTILITIES OR ROADWAYS 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.

OF FINAL INSPECTION & APPROVAL. 6. ALL SOD TO BE ST. AUGUSTINE FLORATAM SOLID, UNLESS OTHERWISE NOTED.

8. ALL TREES TO HAVE A 2 1/2" MINIMUM TRUNK CALIPER OR UNLESS OTHERWISE SHOWN ON LANDSCAPE LEGEND.

TOP DRESSING, SOIL PREPARATION, DECORATIVE ITEMS (IF SHOWN), INSPECTIONS, TRANSPORTATIÓN. WARRANTY. PERMITS. ETC.. NECESSARY FOR COMPLETION OF ALL

OR DESIGN PRIOR TO INSTALLATION OF THE SAME.

12. OWNER RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS. 13. LANDSCAPER SHALL HAVE A COMPETENT SUPERINTENDENT PRESENT ON THE JOB

WHO SHALL BE AUTHORIZED TO REPRESENT THE LANDSCAPER IN HIS ABSENCE. 14. PLANTS SHOULD BE TYPICAL FOR THEIR VARIETY AND SPECIES, SOUND, HEALTHY VIGOROUS, FREE FROM PLANT DISEASE, INSECTS 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. 15. ALL PLANT MATERIAL SHALL BE HANDLED IN A CAREFUL MANNER DURING

16. PLANTS SHALL NOT BE PRUNED OR TOPPED BEFORE DELIVERY.

18. LANDSCAPER SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE DAILY. THE

19. THE LANDSCAPE CONTRACTOR SHALL LAY OUT HIS 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

INSURE ALL PERSONS AND PROPERTY AGAINST INJURY, AND SHALL BE MAINTAINED UNTIL THE COMPLETION OF ALL WORK.

PLANT MATERIALS 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 LOWEST FROND); GAL (GALLON CAN); 3 GAL (3 GALLON CAN); 0A (INDICATES OVERALL HEIGHT FROM TOP OF BALL TO MID POINT OF CURRENT SEASON'S GROWTH); SPR (INDICATES SPREAD); HVY (INDICATES HEAVY); MIN (INDICATES MINIMUM). OBTAINABLE IN THE TYPE AND SIZES SPECIFIED SHALL BE MADE PRIOR TO SUBMISSION OF BIDS. ALL SUBSTITUTION REQUESTS SHALL BE DIRECTED TO THE

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

EVEN WITH, OR SLIGHTLY HIGHER (+-1") THAN THE FINISHED GRADE.

TIME OF BIDDING AND AT THE TIME A CONTRACT IS EXECUTED.

26. COMMERCIAL FERTILIZER: COMMERCIAL FERTILIZER SHALL BE AN ORGANIC FERTILIZER CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH IN EQUAL PERCENTAGES OF AVAILABLE PLANT FOOD BY WEIGHT OR "MILORGANITE". NITROGEN SHALL BE NOT LESS THAN 100% FROM ORGANIC SOURCE. FERTILIZER SHALL BE DELIVERED TO THE SITE UNOPENED IN ORIGINAL CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED ANALYSIS. INITIAL FERTILIZATION OF TREES. SHRUBS. GROUND COVERS. SHALL BE WITH "MILORGANITE"

OR AN APPROVED COMPLETE FERTILIZER. APPLY "MILORGANITE" IN A CIRCLE AROUND THE PLANT BEFORE MULCHING. DO NOT TOUCH THE PLANT WITH THE FERTILIZER. WATER IN FERTILIZER AFTER MULCHING. APPLY "MILORGANITE" FERTILIZER AT THE FOLLOWING RATE:

5 LBS. OR 14.5 CUPS / PALMS 3 LBS. OR 8.70 CUPS / 12'-16' MATERIAL 2 LBS. OR 5.80 CUPS / 8'-12' MATERIAL 0.69 LBS. OR 2.00 CUPS / 6'-8' MATERIAL 0.19 LBS. OR 1/2 CUP / 3 GAL. MATERIAL

PLANTING DETAILS

0.10 LBS. OR 1/4 CUP / 1 GAL. MATERIAL FERTILIZERS SHALL BE SLOW TIME RELEASE, UNIFORM IN COMPOSITION, DRY, AND FREE FLOWING AND SHALL MEET THE FOLLOWING REQUIREMENTS; SIX (6) PERCENT NITROGEN, SIX (6) PERCENT PHOSPHOROUS, AND SIX (6) PERCENT POTASSIUM. FERTILIZER SHALL BE APPLIED TO ALL SHRUBS (1/3 LB. PER 3 GAL. CONTAINER, 1/4 LB. PER 1 GAL. CONTAINER) AND GROUNDCOVER. THE SOD STARTER FERTILIZER MIXTURE SHALL BE A 5-10-10 AT A RATE OF 20 LBS. PER 1000 S.F., A 14-14-14 FERTILIZER IS REQUIRED ON ALL TREES AND SHRUBS OVER 5' IN HEIGHT (1/2 LB. PER 5'OF SPREAD). AGRIFORM TABLETS WITH TWENTY (20) PERCENT NITROGEN, TEN (10) PERCENT PHOSPHOROUS, FIVE (5) PERCENT POTASSIUM IN 21 GRAM SIZES & SHALL BE APPLIED AT THE

FOLLOWING RATE: 1 PER 1 GAL. PLANTS, 2 PER 3 GAL. PLANTS AND 2 TABLETS PER 1" OF TREE TRUNK CALIPER. APPLY PALM SPECIAL FERTILIZER AS PER MANUFACTURERS RECOMMENDATION. 27. SUPER ABSORBENT POLYMER: "TERRA SORB" OR APPROVED EQUAL AS PACKAGED IN 3 OZ. HANDY PAC COMPOSED OF SYNTHETIC ACRLAMIDE COPOLYMER, POTASSIUM, 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 AMOUNTS:

1 PAC PER TREE - 36" BALL SIZE 2 PACS PER TREE - OVER 36" BALL SIZE 1 PAC PER 20 GAL. CONTAINER 0.5 PACS PER 7-10 GAL. CONTAINER

0.25 PACS PER 3 GAL. CONTAINER 0.12 PACS PER 1 GAL. CONTAINER 28. 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. 29. PLANTING SOIL: PLANTING SOIL 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 STONES, PLANTS, ROOTS AND OTHER FOREIGN MATERIALS WHICH MIGHT BE A HINDRANCE TO PLANTING OPERATIONS OR BE DETRIMENTAL TO GOOD PLANT GROWTH. SOIL SHALL BE DELIVERED IN A LOOSE FRIABLE CONDITION AND APPLIED IN ACCORDANCE WITH THE PLANTING SPECIFICATIONS.

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

31. PRUNING: REMOVE DEAD AND BROKEN BRANCHES FROM ALL PLANT MATERIAL PRUNE TO RETAIN TYPICAL GROWTH HABIT OF INDIVIDUAL SPECIES, RETAINING AS MUCH HFIGHT AND SPREAD AS POSSIBLE. MAKE ALL PRUNING CUTS WITH A SHARE 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, TOPPED, OR

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

33. MAINTENANCE: MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE UNTIL ALL PLANTING HAS PASSED FINAL INSPECTION AND ACCEPTANCE. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, CULTIVATING, REMOVAL OF DEAD MATERIALS, RESETTING PLANTS TO PROPER GRADES OR UPRIGHT POSITIONS AND RESTORATION OF THE PLANTING SAUCER AND ANY OTHER NECESSARY OPFRATIONS. PROPER PROTECTION TO LAWN AREAS SHALL BE PROVIDED AND ANY DAMAGE RESULTING FROM PLANTING OPERATIONS SHALL BE REPAIRED PROMPTLY. 34. CONTRACTOR TO REMOVE ALL REMAINING FRONDS ON NEWLY PLANTED SABAL PALMS

WITH THE EXCEPTION OF THE CENTER BUD TO INSURE BETTER SURVIVABILITY AND LESS WATER STRESS PROBLEMS OF THE PALM, THUS GIVING HIGHER SURVIVOR RATE OF THE SAME. (NOTE: OTHER PALM SPECIES TIE BRANCHES TOGETHER WITH BIODEGRADABLE TWINE TO A TIGHT BUNDLE AROUND BUD FOR PROTECTION AS REQUIRED). 35. ALL APPLICABLE FEDERAL, STATE, AND LOCAL PERMITS SHALL BE ATTAINED PRIOR TO ANY

OR PLAN DOCUMENTS. 36. A SIGHT VISIBILITY TRIANGLE SHALL BE PROVIDED. THE SIGHT VISIBILITY TRIANGLE SHALL PROVIDE UNOBSTRUCTED CROSS-VISIBILITY FOR VEHICULAR, PEDESTRIAN, AND BICYCLE TRAFFIC AT LEVEL

REMOVAL, RELOCATION, OR INSTALLATION OF PLANT MATERIALS INDICATED WITHIN THE PLANS

THE TOP OF THE ROOT BALL STANDS 1"-2" ABOVE THE FINISHED GRADE AND THE ROOT BALL IS COVERED - FORM FARTH SAUCER 3' MIN. I RIM AROUND PLANTING HOLE BEST FACE OF SHRUB, GROUNDCOVER TO FACE FRONT OF PLANTING BED This item has been digitally signed SCHEDULE FOR by Eduardo L. Carcache on the date adjacent to the seal. TRIANGULAR SPACING) Printed copies of the document _MAINTAIN 12" MULCH DEAD

are not considered signed and sealed and the signature must be verified on any electronic copies.

EDUARDO L. CARCACHE

CIVIL ENGINEER-PE 31914

RICARDO J. PEREZ

ARCHITECT-AR 14985

17190 ROYAL PALM RIVE

VESTON . FLORIDA 33326

(305) 558-4124

(305) 826-0619



RBL#23-08-2214 DRAWN BY: RICK BARTLETT

CHECKED: RGB/MER DATE REMARKS 10/09/24 | ADDRESS

CONTRACT DATE: MAY 29, 2023 **BUILDING TYPE:** ENDEAVOR PRE-PAY PLAN VERSION:

BRAND DESIGNER: TIFFANIE SHIVELY SITE NUMBER: TB-592827 STORE NUMBER:

DIANA DE CICCO

CKE 1851 TACO BELL **COOPER CITY COMMONS** 2500 PINE ISLAND RD.

DRAWN BY



ENDEAVOR

PRE-PAY

LANDSCAPE SPECIFICATIONS

ROOT BARRIER DETAIL (TYPICAL)

N.T.S.

LANDSCAPE NOTES

MINIMUM ROOT BARRIER REQUIREMENTS:

NJECTION MOLDED, RECYCLED POLYPROPYLENE ROOT BARRIER WITH DOUBLE TOP EDGE DTE: A ROOT BARRIER SYSTEM SHALL BE INSTALLED IN SITUATIONS WHERE A TREE OR PALM

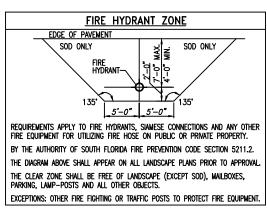
IS PLANTED WITHIN 10' OF A PAVED SURFACE, STORM SEWER OR INFRASTRUCTURE.

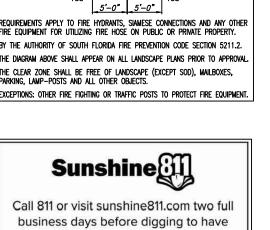
1) PANEL 0.085 THICK POLYPROPYLENE 3) ROUNDED EDGES 5) ANTI-LIFT PADS 2) ZIPPER JOIN SYSTEM DTE: BIO BARRIERS SHALL BE INSTALLED WHERE TREES ARE IN THE VICINITY OF UNDERGROUND LINES, FIELD VERIFY AS REQUIRED.

GRAVEL STRIP SECTION

PROVIDE WEED BARRIER UNDER GRAVEL MULCH

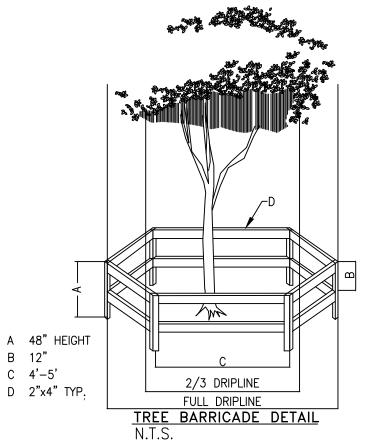
GRAVEL MULCH SHALL BE CONTINUOUS TO EDGE OF STEEL BORDER & CONCRETE CURB.



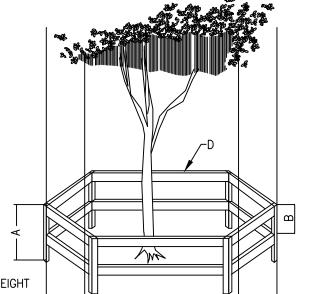


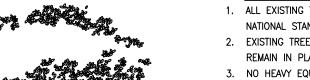
buried facilities located and marked.

Check positive response codes before you dig!



EDGING - SECTION





TREE BARRICADE NOTES: 1. ALL EXISTING TREES SHALL BE TRIMMED AND SHALL COMPLY WITH THE "AMERICAN

NATIONAL STANDARDS INSTITUTE, (ANSI), A300-2005", CURRENT EDITION RESPECTIVELY. 2. EXISTING TREES TO BE BARRICADED PRIOR TO BEGINNING OF CONSTRUCTION & SHALL

REMAIN IN PLACE DURING CONSTRUCTION, IF REQUIRED SEE PLAN. 3. NO HEAVY EQUIPMENT, CONSTRUCTION MATERIALS OR SOIL DEPOSITS ARE TO BE ALLOWED INSIDE TREE BARRIERS 4. TOPSOIL SHALL BE CLEAN & REASONABLY FREE OF CONSTRUCTION DEBRIS, WEEDS, ROCKS, & NOXIOUS PESTS & DISEASE (SEE SOIL PLANTING SPECIFICATIONS). 5. TREE REMOVAL PERMIT SHALL BE REQUIRED PRIOR TO CONSTRUCTION & ANY CLEARING

WATER HOSE, HOLE SHOULD BE FILLED WITH A MIXTURE

9. A TEMPORARY HOLDING AREA SHALL BE USED ON SITE DURING CONSTRUCTION

OR UNTIL TREES CAN BE PROPERLY RELOCATED, COORDINATE WITH LANDSCAPE ARCHITECT.

OF GOOD TOP SOIL (SEE SPECIFICATION SHEET).

OPERATIONS AS REQUIRED. 6. ALL PROPOSED TREES TO BE RELOCATED SHALL BE ROOT PRUNED MINIMUM 12 WEEKS PRIOR TO CONSTRUCTION AND DONE ACCORDING TO GOOD NURSERY PRACTICE AS REQUIRED. TRENCH DEPTH SHALL BE 18"-36"; ROOT BALL SHALL BE A MINIMUM OF 60" WHEN ROOT PRUNED. FILL TRENCH WITH FIBROUS MATERIAL SUCH AS LEAVES, OR WOOD SHAVINGS. WATERING SHALL BE ONCE A WEEK DURING ROOT PRUNING. TORN ROOTS SHALL BE TRIMMED TO SOLID WOOD. RELOCATED TREES SHALL BE LIGHTLY PRUNED BY HAND. LANDSCAPE CONTRACTOR SHALL WATER RELOCATED TREES W/ TEMPORARY IRRIGATION EVERYDAY FOR THE FIRST MONTH THEN 2-3 TIMES A WEEK UNTIL SYSTEM IS FULLY AUTOMATIC; OWNER TO SUPPLY WATER ON SITE. TRANSPLANT TREES W/ 60" TREE SPADE, AND / OR TREE CRANE. TRANSPLANTING HOLE SHALL BE AT LEAST 1/3

IRRIGATION SCHEDULE

VIGOR

WEEKLY: UNTIL ESTABLISHED

WEEKLY: UNTIL ESTABLISHED

THAN 4 INCH | EVERY OTHER DAY: 5 MONTHS | WEEKLY FOR

4 MONTHS (HARDINESS ZONES 8-9) PER INCH TRUNK CALIPER.

FOR RELOCATED AND/OR NEWLY PLANTED TREES/PALMS THE IRRIGATION SCHEDULE

NIL THIS WATER SHOULD BE APPLIED ONLY TO THE TOP OF THE ROOT BALL.

SHALL BE AS PER UF/IFAS PUBLICATION ENH-1061: DURING ESTABLISHMENT, TREES

EVERY OTHER DAY: 2 MONTHS | WEEKLY FOR

EVERY OTHER DAY: 3 MONTHS | WEEKLY FOR

| WEEKLY: UNTIL ESTABLISHED | 4-5 MONTHS

* ESTABLISHMENT TAKES APPROXIMATELY 3 MONTHS (HARDINESS ZONES 10-11)

SHOULD BE IRRIGATED 2-3 TIMES PER WEEK WITH 2 GALLONS PER INCH TRUNK CALIPER.

TABLE 2. IRRIGATION SCHEDULES DEPEND ON SIZE OF NURSERY STOCK AND DESIRED OBJECTIVE*.

SURVIVAL

2-3 MONTHS

3-4 MONTHS

IRRIGATION SCHEDULE FOR

BIGGER THAN THE AREA THAT WAS TRENCHED FOR TRANSPLANTING. · SET TREES NO DEEPER THAN IT WAS IN ITS ORIGINAL GROWING WITH THE ROOT BALLS EVEN WITH , OR SLIGHTLY HIGHER (+- 1") THAN THE FINISHED GRADE. 8. PROVIDE DISH TO RETAIN WATER, ELIMINATE AIR POCKETS WITH THE USE OF

10. LANDSCAPE CONTRACTOR TO REMOVE ALL EXISTING BRAZILIAN PEPPER, FLORIDA HOLLY AND ALL EXOTIC NUISANCE MATERIAL ON SITE AS REQUIRED. 11. CONTRACTOR SHALL FIELD ADJUST NEW TREE LOCATIONS TO BE 15' MINIMUM FROM LIGHT STANDARDS.

IN CASE THEY OCCUR, THE PLAN WILL TAKE PRECEDENCE OVER THE PLANT LIST. THE LANDSCAPE PLANS SHALL NOT BE UTILIZED FOR STAKING, LAYOUT OR LOCATIONS OF ANY SITE STRUCTURE OR FEATURE INCLUDING BUT NOT LIMITED TO BUILDINGS, SIGNS,

TREE GRATE/SIDEWALK STAKING DETAIL

5. ALL PLANTING MATERIAL SHALL BE GUARANTEED 365 DAYS (1 YEAR) FROM TIME

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).

9. ALL TREES FIELD GROWN (LIRIO CAN TREES NOT ACCEPTABLE), UNLESS OTHERWISE SHOWN. 10. LANDSCAPER TO FURNISH ALL MATERIALS AND LABOR INCLUDING PLANTS, MULCH,

LANDSCAPING REQUIRED HEREIN EXCEPT IF DESIGNATED TO BE BY OTHERS. 11. LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY CHANGES IN THE MATERIAL

TRANSPORTATION AND INSTALLATION.

17. OWNER RESERVES THE RIGHT TO APPROVE ALL PLANT MATERIALS. PREMISES SHALL BE KEPT NEAT AND ORDERLY AT ALL TIMES WHILE WORK IS IN PROGRESS.

20. METHODS OF PROTECTION SHALL BE MAINTAINED AT ALL TIMES, AS REQUIRED TO

22. SUBSTITUTION: PLANT SUBSTITUTION REQUESTS, FOR PLANT MATERIAL NOT LANDSCAPE ARCHITECT FOR CONSIDERATION AND APPROVAL. IT IS THE LANDSCAPE CONTRACTOR'S OBLIGATION TO KNOW WHERE THEY CAN OBTAIN ALL MATERIAL AT THE

24. SET TREES NO DEEPER THAN IT WAS IN ITS ORIGINAL GROWING WITH THE ROOT BALLS

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

BETWEEN 30" & 8 FT MEASURED FROM GRADE LEVEL AT ALL ENTRANCES, EXITS, AND INTERSECTION