2. ALL LANDSCAPED AREAS REQUIRING IRRIGATION SHALL BE PROVIDED WITH AN AUTOMATED IRRIGATION SYSTEM THAT PROVIDES 100 PERCENT COVERAGE, ALL SHALL BE MAINTAINED IN CONTINUOUS GOOD WORKING ORDER. 3. THE SYSTEM SHALL INCORPORATE THE FOLLOWING:

ZONES - IRRIGATION SYSTEM SHALL BE DESIGNED TO ENSURE TURF AND LANDSCAPE ARE IRRIGATED ON SEPARATE ZONES CALCULATED TO MEET PLANT MOISTURE DEMANDS. ALL SPRAY AND ROTORS ARE TO BE ZONED SEPARATELY. PRESSURE COMPENSATING BUBBLERS - SHALL BE INSTALLED AT EACH TREE, I/TREE, ZONED SEPARATELY. RAIN SENSOR - SHALL BE INCORPORATED.

MINIMIZE OVER SPRAY AND RUNOFF ONTO PAVED SURFACES.

CHECK VALVES - ALL SPRAY HEADS ARE TO INCORPORATE PRESSURE REGULATING AND HAVE CHECK VALVES TO ENSURE PROPER COVERAGE AND AVOID MISTING.

HYDRAULICS - IRRIGATION DESIGN MUST ENSURE MAINLINE AND LATERAL LINE PIPING SHALL BE SIZED TO LIMIT YELOCITIES TO 5 fps, OR LESS, AND A MAX. PRESSURE VARIATION WITH EACH ZONE AND WITHIN ALL MAINLINE PIPING OF 10 PERCENT VIA THE FRICTION METHOD.

LOCAL/COUNTY CODES & ORDINANCES, AND TO STANDARDS OF THE LANDSCAPE INSTALLATION & NURSERY INDUSTRY.

2. LANDSCAPE CONTRACTOR SHALL PROVIDE MAINTENANCE FOR THE JOB UNTIL FINAL ACCEPTANCE. THIS INCLUDES BUT IS NOT LIMITED TO MOWING, TRIMMING, & WATERING OF ALL EXISTING & NEWLY INSTALLED PLANT MATERIALS WITH IN THE CONSTRUCTION ZONE, INCLUDING RECEIVER SITES.

3. THE LAYOUT OF PLANT MATERIALS & LANDSCAPE MATERIALS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

4. ALL PROVISIONS NOTED IN THE SPECIFICATIONS, DRAWINGS: PLANS & DETAILS ARE TO BE FOLLOWED. IF DISCREPANCY OCCUR THE LANDSCAPE ARCHITECT IS TO BE NOTIFIED PRIOR TO CONTINUING WITH THE

PRIOR TO THE REMOVAL, RELOCATION, AND INSTALLATION OF ALL VEGETATION ON-SITE, ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO WORK PROCEEDING.

6. LANDSCAPE CONTRACTOR TO REVIEW ALL RELATED DRAWINGS, INCLUDING BUT NOT LIMITED TO: SITE PLAN, DEMOLITION, EXISTING TREE, LANDSCAPE, GRADING PLAN, ETC. TO DETERMINE POSSIBLE SCOPE OF WORK.

1. CONTRACTOR IS REQUIRED TO IRRIGATE TREES PER SPECIFICATIONS. IF CONTRACTOR CHOOSES NOT TO IRRIGATE OR DOES NOT MAINTAIN A WATERING SCHEDULE, THE CONTRACTOR WILL BE RESPONSIBLE TO REPLACE TREES THAT DIE WITH A SAME SIZE TREE (DBH & HEIGHT), WITH A 365 DAY WARRANTY.

8. 3" OF SHREDDED HARDWOOD BARK MULCH 16 REQUIRED FROM THE BASE OF EACH PROPOSED TREE/PALM TO 6" OUTSIDE THE ROOT BALL, 360° AROUND THE TRUNK, BUT NEVER LESS THAN 24" FROM LANDSCAPING SHALL BE IN COMPLIANCE WITH CHAPTER 154 OF THE CITY OF PORT ST. LUCIE CODE OF ORDNANCES, PSLUSD TECHNICAL SPECIFICATIONS AND

2. ALL LANDSCAPING WITHIN CITY UTILITY EASEMENTS SHALL COMPLY WITH PSLUSD TECHNICAL SPECIFICATIONS, POLICIES, LAND CODES.

3. ALL LANDSCAPING SHALL MEET THE LATEST PSLUSD LANDSCAPE POLICY AND SHALL NOT BE PLACED IN A MANNER THAT WOULD CREATE CONFLICTS WITH THE INTENDED OPERATION AND MAINTENANCE OF ANY

4. TREES SHALL NOT BE PLACED WITHIN TEN (10) FEET OF ANY PSLUSD UNDERGROUND INFRASTRUCTURE.

5. NO LANDSCAPING OTHER THAN SOD GRASSES SHALL BE LOCATED WITHIN 5' OF A PSLUSD APPURTENANCE SUCH AS A WATER METER ASSEMBLY, BACKFLOW DEVICE, FIRE HYDRANT OR SEWER CLEANOUT, ETC.

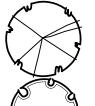
# **Existing Plant Legend**

Ex. Oak Tree



Ex. Shrubs and Groundcover, Typ.

# Proposed Plant Legend



AR1 - FL. Red Maple

PT1 - Single Alexander Palm

LL - Ligustrum

LIR - Liriope

CRO - Croton

DIT - Dianella

Job no. Revisions:

LC 0000177

Landscape

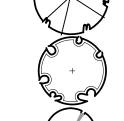
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Ex. Slash Pine Tree

Ex. Canopy Tree



MG - 'Little Gem' Magnolia

PT - Alexander Palm

PT2 - Double Alexander Palm

CHR - Red Tip Cococplum (Hedge)

MFR - Simpson Stopper (Bldg. Hedge)

FIGI - Green Island Ficus

CHH - Horizontal Cocoplum ILV - Dwf. Ilex Schillings

TFL - Dwf. Gamma Grass

Drawn:\_ Approved: <u>GGG/EOM/M</u>TH

LANDSCAPE ARCHITECTUR

& PLANNING

1907 Commerce Lane

Jupiter, Florida 33458 561-575-9557

www.2GHO.com

Sheet Title:

Scale: 1"=40"

**PALMS** 

**COMMON NAME HEIGHT** CALIPER SPACING D.T. NATIVE REMARKS KEY QTY. BOTANICAL NAME 2 PTYCHOSPERMA ELEGANS ALEXANDER PALM 'SINGLE' SINGLE As Shown M N SINGLE STEM SPECIMEN ALEXANDER PALM DOUBLE As Shown V N DOUBLE STEM SPECIMEN 9 PTYCHOSPERMA ELEGANS 12' O.A. 'DOUBLE'

KEY QTY. BOTANICAL NAME **COMMON NAME** SPACING D.T. NATIVE REMARKS CHRYSOBALANUS ICACO 'RED TIP' RED TIP COCOPLUM Y FULL TO BASE PETRA CROTON 24" 18" М N FULL AND THICK CRO 99 CODIAEUM VARIEGATUM 'PETRA' 2 O.C. 44 DIANELLA TASMANICA BLUEBERRY FLAX LILY 18" 2 O.C. M N FULL CLUMP 14" M N FULL AND THICK 179 LIRIOPE MUSCARI LIRIOPE 14" 2 O.C. 257 MYRCIANTHES FRAGRANS SIMPSON'S STOPPER 24" 16" #3 MIN 2 O.C. V Y FULL TO BASE TFL 21 TRIPSACUM FLORIDANA FLORIDA GAMMA GRASS 24" V Y FULL CLUMP 24" 3 O.C.

**GROUNDCOVER** 

WRITTEN SPECS.

BACKFILL MIXTURE

POINT AT WHICH SPECIFIED OVERALL

SHRUB HEIGHT HEIGHT IS MEASURED

CONTAINER THAT MAY BE AROUND

ROOT. IF BALLED & BURLAPPED,

REMOVE ONLY TOP 1/2 OF BURLAF

GROUNDCOVER: KEEP

4" BACKFILL MIXTURE

MULCH AWAY FROM PLANTS

REMOVE PAPER, PLASTIC, OR METAL

KEY QTY. BOTANICAL NAME COMMON NAME HEIGHT SPREAD GAL. SPACING D.T. NATIVE REMARKS 266 CHRYSOBALANUS ICACO HORIZONTAL COCOPLUM Y FULL & THICK TO BASE 'HORIZONTAL GREEN ISLAND FICUS 12" 12" 385 FICUS MICROCARPA 'GREEN ISLAND' 2 O.C. M N FULL AND THICK 523 ILEX VOMITORIA 'STOKES DWARF' STOKES DWARF 10" 2 O.C. V Y FULL AND THICK

ABBREVIATIONS D.T.: DROUGHT TOLERANCE, V= VERY, M= MODERATE, L= LOW

NATIVE: Y= YES. N= NO

G.W.=GREY WOOD, C.T.= CLEAR TRUNK, O.A.=OVERALL, A.S.= AS SPECIFIED, O.C.=ON CENTER

POINT AT WHICH SPECIFED TREE SPREAD IS MEASURED THIN BRANCHES BY 1/3 TOTAL MASS RETAIN NATURAL FORM. NO PRUNÌNG SHALL BE DONE PRIOR TO Details INSTALLATION AND SHALL BE SECURE BATTENS W/ 2-3/4" HIGH CARBON APPROVED BY LANDSCAPE POINT AT WHICH O.A. HEIGHT IS ARCHITECT STEEL BANDS TO HOLD BATTENS IN PLACE POINT AT WHICH SPECIFIED OVERALL MEASURED DURING PLANTING PROJECT. DO NOT NAIL TREE HEIGHT IS MEASURED NSTALL TREE FROG TREE STAKING BATTENS TO PALM. HEIGHT OF BATTENS PRODUCT AS SPECIFIED BY THE CABBAGE PALMS TO BE SHALL BE LOCATED IN RELATION TO THE WEBBING TO BE REMOVED AT END OF MFG. OR APPROVED EQUAL. 3/4" SLICK & HURRICANE CUT HEIGHT OF THE PALM FOR ADEQUATE WARRANTY PERIOD BY LANDSCAPE POLYPROPYLENE WEBBING, LOOP BRACING, STEEL BANDS SHALL NOT TOUCH CONTRACTOR, BRACING MAY BE WEBBING THRU CROTCH OF LOWER TRUNK OF TREE. TIE FRONDS W/BURLAP OR MODIFIED FOR URBAN CONDITIONS BRANCES AND EXTEND 12" SIMILAR BIODEGRADABLE ALTERNATIVE BRACING SYSTEM TO BE BEYOND TRUNK, FASTEN BUCKLE MATERIAL TO PROTECT BUD APPROVED BY LANDSCAPE AND SLIDE TOWARDS ANCHOR TO ARCHITECT, TREES OVER 3.5" CALIPER STEEL BAND TO USE PALM STAKINGDETAIL, BRACING TREE CALIPER SIZE SHALL BE 6 (2"X4"X16") MUST BE VISIBLE & SAFE FOR **WOODBATTENS** MEASURED AT 6" ABOVE GRADE UP PEDESTRIANS POINT AT WHICH C.T. OR B.T. 5 LAYERS OF BURLAP OR TO \$ INCL. 4" CAL. AND 12" ABOVE PROVIDE 4 WEBBING STRAPS SPACED HEIGHTS ARE MEASURED SIMILAR BIODEGRADABLE GRADE FOR LARGER CALIPER TREES AT 90° APART. POINT AT WHICH C.W. OR G.W. SAFETY FLAGS (TYP.) FOLD BACK TOP 1/2 OF BURLAF ALL BRACING TO BE REMOVED AT END OF ROOT BALL SLIGHTLY ABOVE FINISH NO SCRAPED OR SCARRED TRUNKS REMOVE ALL SYNTHETIC BURLAP WARRANTY PERIOD BY LANDSCAPE GRADE. 10% MAXIMUM. DO NOT PILE CUT WIRE BASKETS BELOW TOP CONTRACTOR, BRACING MAY BE MODIFIED MINIMUM 4 (2 × 4) WOOD BRACES SOIL ON TOP OF ROOTBALL. HALF OF ROOT BALL NAIL INTO BATTENS W/20D NAILS FOR URBAN CONDITIONS, ALTERNATIVE 3" EARTH RING FOR WATER SPACED AT A MINIMUM OF 90° BRACING SYSTEM TO BE APPROVED BY FERTILIZE AS PER WRITTEN COLLECTION WITH GENTLY SLOPING SIDES LANDSCAPE ARCHITECT SAFETY FLAGS (TYP.) ROOT BALL SLIGHTLY ABOVE FOLD BACK TOP 1/2 OF BURLAP FINISH GRADE. 10% MAXIMUM. FINISH GRADE REMOVE ALL SYNTHETIC BURLAP DO NOT PILE SOIL ON TOP ANCHOR (TYP.) CUT WIRE BASKETS BELOW TOP OF ROOTBALL. HALF OF ROOT BALL EXISTING SUBGRADE WHEN STRAPS ARE LOCATED IN SOD, PLACE AN 8"X1" PVC PIPE BACKFILL MIXTURE AT FINISHED GRADE FINISH GRADE 3" EARTH RING FOR WATER EXISTING SUBGRADE MULCH TYPE AND THICKNESS IN COLLECTION WITH GENTLY SPECIFICATION. DO NOT PLACE 2 X 4 ANCHOR STAKE SLOPING SIDES MULCH AGAINST TRUNK OF TREE PLANT PIT TO BE 2.5 TIMES THE BRACE INTO VIRGIN SOIL TOE NAIL INTO ANCHOR DIAMETER OF THE PLANT BALL MULCH TYPE AND THICKNESS IN FERTILIZE AS PER SPECIFICATION. DO NOT PLACE Tree Planting Detail N.T.S.

> PLANT PIT TO BE 2.5 TIMES THE DIAMETER OF THE PLANT BALL Palm Planting Detail N.T.S Tree Planting Over 3.5" Cal

> > POINT AT WHICH SPECIFED

SHRUB SPREAD IS MEASURED

PLANT PIT TO BE 2 TIMES THE

DIAMETER OF THE PLANT BALL

Shrub & Ground Cover Planting Detail N.T.S

ROADWAY BIOBARRIER OR APPROVED EQUAL SOIL BACKFILL TREE PIT (TYP.) \*NOTE: CONTRACTOR SHALL FOLLOW MFG'S. DETAILED

MULCH AGAINST TRUNK OF TREE

INSTRUCTIONS FOR ACTUAL INSTALLATION PROCEDURES. Tree Root Barrier Section N.T.S

MULCH TYPE AND THICKNESS

IN SPECIFICATION. DO NOT

3" EARTH RING FOR WATER

EXISTING SUBGRADE

FERTILIZE AS PER WRITTEN SPECS.

BACKFILL MIXTURE: 1/2 PARENT

BACKFILL MIXTURE OF 1/3 SAND.

1/3 TOPSOIL, 1/3 PEAT HUMUS.

MATERIAL COMBINE WITH

FINISH GRADE

PLACE MULCH AGAINST

FRUNK OF SHRUB

COLLECTION

BIOBARRIER AT ROADWAY, CURB, SIDEWALK EDGE, PIPE AND TREE PIT ALL UTILITY PIPES WILL BE PROTECTED WITH ROOT BARRIER PER THE REQUIREMENTS OF THE MUNICIPALITY. TREE ROOT BARRIER WILL NEVER BE USED FOR MORE THAN 30% OF THE EXPANDED CIRCUMFERENCE OF THE ROOT BALL. ROOT BARRIER WILL NOT BE USED BETWEEN THE TREE PIT AND THE STRUCTURAL SOIL. Tree Root Barrier Plan N.T.S.

Tree Planting 1" To 3.5" Cal

EQUIDISTANT SPACING OF HEADS. MIN. 8'-10' SEPERATION ON ALL PLANES CONTINUOUS MULCH BED TRUNKS TO CURVE OR LEAN OUT AWAY FROM CLUSTER TO ALLOW SUN ACCESS TO HEAD DIRECTION OF CURVED TRUNK STRAIGHT TRUNKS TYP. TALLEST AND IN CENTER OF CLUSTER STRAIGHT TRUNK PALMS CAN BE SLIGHTLY TILTED WHEN PLANTED

ROOT BALLS TO BE 3-7' O.C.

CURVED TRUNK PALM HEADS PERPENDICULAR TO THE GROUND, USE A VARIETY OF CURVED TRUNKS (I.E. AREA OF CURVE AND DEGREE)

Typical Cabbage Palm Layout N.T.S.

SHORT HEAD

## **Specifications - Exterior Plants**

## 1.4: QUALITY ASSURANCE

SOIL ANALYSIS SHALL BE CONDUCTED BY THE LANDCAPE CONTACTOR PRIOR TO APPLICATION OF ANY SOIL AMENDMENTS, FERTILIZERS AND BACKFILL MIXTURES. THE LANDSCAPE CONTACTOR SHALL USE A QUALIFIED SOIL TESTING LABORATORY

THE RESULT OF THE SOIL TESTS SHALL BE SUBMITTED TO THE OWNER AND LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO THE APPILCATION OF SAID MATERIALS. ADJUSTMENTS TO THE SOIL AMENDENTS MAY BE MADE UPON CONSULTAION WITH THE OWNER AND THE LANDSCAPE ARCHITECT.

## 1.5: DELIVERY, STORAGE AND HANDLING

PRUNING OF TREES SHALL BE DONE ON SITE AFTER PLANTING FOR DAMAGED LIMBS OR AS DIRECTED TO IMPROVE OVERALL PLANT APPEARANCE. DO NOT REMOVE MORE THAN 15% OF BRANCHES. PRUNING METHODS SHALL FOLLOW STANDARD HORTICULTURAL PRACTICES USING APPROPRIATE TOOLS. LOPPING, SHEARING OR TOPPING OF PLANT MATERIAL WILL BE GROUNDS FOR REJECTION. DAMAGED, SCARRED, FRAYED, SPLIT OR SKINNED BRANCHES, LIMBS OR ROOTS TO BE PRUNED BACK TO LIVE WOOD. THE CENTRAL LEADER OR BUD SHALL BE LEFT INTACT UNLESS SEVERELY DAMAGED.

PRUNE SHRUBS TO REMOVE DAMAGED BRANCHES, IMPROVE NATURAL SHAPE, THIN OUT STRUCTURE AND REMOVE NOT MORE THAN 15% OF BRANCHES.

### 1.6: WARRANTY

WARRANT ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST DEATH AND UNHEALTHY CONDITION, EXCEPT AS MAY RESULT FROM NEGLECT BY OWNER, DAMAGE BY OTHERS AND UNUSUAL PHENOMENA BEYOND CONTRACTOR'S CONTROL. REPLACEMENTS SHALL BE MADE WITH COMPATIBLE SIZE AND QUALITY OF MATERIAL AT A TIME REQUESTED OR ACCEPTABLE BY THE OWNER OR LANDSCAPE ARCHITECT. PLANT MATERIAL REJECTED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED WITHIN FIVE (5) WORKING DAYS AND REPLACED BEFORE THE FINAL INSPECTION FOR COMPLETION WILL BE SCHEDULED. WARRANTY ON REPLACEMENT PLANTS SHALL BE 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE REPLACEMENTS. ANY DAMAGE TOLANDSCAPE, SODDED OR SEEDED AREAS DURING REPLACEMENT OF PLANT MATERIAL SHALL BE CORRECTED BY THE LANDSCAPE CONTRACTOR.

## 1.7: MAINTENANCE SERVICE:

MAINTENANCE AND GENERAL CLEAN UP SHALL BE PERFORMED DAILY. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO WATERING. WEEDING, CULTIVATING, RESTORATION OF GRADE, REMOVAL OF LITTER. MOWING, PRUNING, RESETTING SETTLED PLANTS, REMOVING, REPAIRING OR REPLACING STAKES AND GUYS, PROTECTION FROM INSECTS AND DISEASES, FERTILIZATION AND SIMILAR OPERATIONS AS NEEDED TO ENSURE NORMAL GROWTH AND HEALTHY PLANT MATERIAL. MAINTENANCE SHALL BEGIN AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE FOR NINETY (90) DAYS FROM THE DATE OF FINAL ACCEPTANCE.

### 1.8: QUANTITIES, LOCATION AND SUBSTITUTIONS:

THE QUANTITIES OF PLANT MATERIALS SHOWN ON PLANS SHALL TAKE PRECEDENCE OVER THE PLANT QUANTITIES ON THE PLANT LIST. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST THE NUMBER AND LOCATIONS OF THE DESIGNATED TYPES AND SPECIES OF PLANTS TO BE USED AT ANY OF THE LOCATIONS SHOWN. THE OWNER SHALL RECEIVE A CREDIT OR DEBIT FOR THE UNIT PRICE OF THE PLANT MATERIAL. NO SUBSTITUTION OF PLANT MATERIAL TYPES, SPECIFICATIONS OR SIZES WILL BE PERMITTED WITHOUT WRITTEN AUTHORIZATION FROM THE LANDSCAPE ARCHITECT. THE OWNER AND/OR LANDSCAPE ARCHITECT RESERVES THE RIGHT TO NOT ACCEPT PLANT MATERIAL THAT DOES NOT, IN THE OPINION OF THE OWNER AND/OR LANDSCAPE ARCHITECT, MEET THE SPECIFICATIONS HEREIN.

## 2.1: PLANT MATERIAL

PROVIDE SIZES AND SPECIFICATIONS OF PLANTS AS SHOWN ON PLANS OR LISTED ON PLANT LIST. ALL TREES, PALMS, SHRUBS, GROUND COVERS AND OTHER PLANTS SHALL CONFORM TO THE STANDARD OF FLORIDA NO. 1 OR BETTER AS GIVEN IN THE LATEST EDITION OF GRADES AND STANDARDS FOR NURSERY PLANTS BY FLORIDA DEPARTMENT OF AGRICULTURE, PART I AND II. PLANT MATERIAL SHALL ALSO CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. (ANSI) BULLETIN Z 60.1 - 1990 AND AS

SPECIMEN PLANTS SHALL BE FLORIDA FANCY OR BETTER AND SHALL CONFORM TO THE LITERATURE STANDARDS LISTED ABOVE.

TOPSOIL SHALL BE FRIABLE FERTILE SOIL WITH REPRESENTATIVE CHARACTERISTICS OF AREA SOILS. IT SHOULD BE FREE OF HEAVY CLAY, SILT, STONE, EXCESS LIME, SHELL ROCK, PLANT ROOTS, WEEDS, DEBRIS OR OTHER FOREIGN MATTER. IT SHALL NOT CONTAIN NOXIOUS PLANT GROWTH (SUCH AS BERMUDA, TORPEDO OR NUT GRASS). IT SHALL TEST BETWEEN THE PH RANGE OF 5.0 TO 7.0 UNLESS OTHERWISE SPECIFIED AND CONTAIN NO TOXIC RESIDUE OR SUBSTANCES THAT WOULD ENDANGER PLANT 3.2: SODDING GROWTH. IF TOPSOIL IS NOT AVAILABLE ON SITE, IT SHALL BE IMPORTED FROM LOCAL SOURCES WITH SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT PROJECT SITE. OBTAIN TOPSOIL ONLY FROM NATURALLY, WELL-DRAINED SITES WHERE TOPSOIL OCCURS IN A DEPTH NOT LESS THAN 4".

# 2.5: INORGANIC SOIL AMENDMENTS:

SAND SHALL BE CLEAN, SALT-FREE AND CONTAINING NO EXTRANEOUS MATTER

MYCORRHIZAL AMENDMENT SHALL BE DIEHARD™ TRANSPLANT AS MANUFACTURED BY HORTICULTURAL ALLIANCE OR EQUAL TO WITH THE FOLLOWING INGREDIENTS:

ENDOMYCORRHIZAL FUNGI ECTOMYCORRHIZAL FUNGI BENEFICIAL BACTERIA **HUMIC ACID** SOLUBLE SEA KELP

HORTA-SORB WATER MANAGEMENT GEL **TRICHODERMA** YUCCA PLANT EXTRACTS VITAMIN B COMPLEX

## 2.6: ORGANIC SOIL AMENDMENTS

AMINO ACIDS

PEAT HUMUS SHALL BE DECOMPOSED PEAT WITH NO IDENTIFIABLE FIBERS OR IF AVAILABLE, MUCK MAY BE SUBSTITUTED AND SHALL BE FREE FROM STONES, EXCESSIVE PLANT ROOTS, DEBRIS OR OTHER FOREIGN MATTER. MUCK SHALL NOT BE OVERLY SATURATED WITH WATER.

## 2.7: FERTILIZATION

PROVIDE FERTILIZER UNIFORM IN COMPOSITION, DRY, AND IN A FREE FLOWING CONDITION FOR APPLICATION BY SUITABLE EQUIPMENT, AND DELIVER IN UNOPENED BAGS OR CONTAINERS, EACH FULLY

FERTILIZE TREES, SHRUBS AND GROUND COVERS 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:

5.00 LBS. OR 14.5 CUPS / PALMS 3.00 LBS. OR 8.70 CUPS / 12-16' MATERIAL 2.00 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 0.10 LBS. OR 1/4 CUP / 1 GAL MATERIAL

# MULCH TO BE APPLIED TO ALL PLANTING BEDS, 3" THICK MIN.

STAGGERED HEIGHTS

PINE STRAW MULCH SHALL BE APPLIED ONLY TO THOSE AREAS AS INDICATED ON THE PLAN. APPLY 6" FLUFFED, 2-3" THICK AFTER COMPACTION.

# .10:PLANTING SOIL MIX

BACKFILL MIXTURE: 1/2 PARENT SOIL, 1/2 MIXTURE (1/3 SAND, 1/3 TOPSOIL, 1/3 PEAT HUMUS).

# 3.1: PLANTING BED ESTABLISHMENT

PREPARATION: PRIOR TO THE INSTALLATION OF PLANTS, THE SITE SHALL BE FREE OF WEEDS, GRASS, SOD, DEBRIS, ROCKS OR OTHER MATERIAL MAKING THE SITE UNPLANTABLE. FOR FINAL ACCEPTANCE ALL PLANTED AREAS SHALL BE WEED FREE.

FINISH GRADING: THE LANDSCAPE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND GRADING OF TOPSOIL. IF NECESSARY, WITH THE GENERAL CONTRACTOR, TO INSURE THE SITE IS AT FINISH GRADE PRIOR TO INSTALLING PLANTS.

## 3.2: PLANTING TREES

LAYOUT PLANTS ACCORDING TO LANDSCAPE PLANS. IF A CONFLICT ARISES AS TO THE LOCATION. SPACING OR OTHER CONFLICT, CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY.

EXCAVATE PIT TO TWO AND ONE-HALF (2 1/2) TIMES THE DIAMETER OF TREE BALL AND NOT LESS THAN 6" DEEPER. COMPACT A LAYER OF BACKFILL MIXTURE IN PIT TO LOCATE COLLAR OF PLANT PROPERLY IN A SLIGHTLY DISHED FINISH GRADE. BACKFILL AROUND BALL WITH BACKFILL MIXTURE, COMPACTED TO ELIMINATE VOIDS AND AIR POCKETS, WATERING THOROUGHLY AS LAYERS ARE PLACED. BUILD 3" HIGH BERM OF SOIL BEYOND EDGE OF EXCAVATION. APPLY FERTILIZER AS SPECIFIED AND THEN MULCH WITH THE TYPE AND THICKNESS SPECIFIED ON PLANT LIST.

GUY AND STAKE TREES, LESS THAN 3.5" IN CALIPER, IN FOUR DIRECTIONS WITH "ARBORBRACE" NYLON TREE GUYING KIT WITH HARDENED NYLON ANCHOR AND 3/4" 800 LB. POLYPROP UV WEBBING, MODEL (ATG-R) OR APPROVED EQUAL. STAKE TREES IMMEDIATELY AFTER PLANTING. FOR MULTI-TRUNK PLANT MATERIAL, ATTACH GUYS TO FOUR (4) LARGEST LIMBS, CARE MUST BE TAKEN NOT TO MAKE GUYS TOO TIGHT. FOR TREES 3.5" IN CALIPER AND OVER, TREES MUST BE STAKED WITH WOOD 2X4 METHOD. FOLLOW PALM STAKING DETAIL FOR REQUIREMENTS. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ELIMINATE GUYING OR STAKING. THE OWNER SHALL RECEIVE A CREDIT OR DEBIT FOR THE UNIT PRICE OF THE GUYING OR STAKING. THE LANDSCAPE CONTRACTOR SHALL REMOVE BRACING IN ONE YEAR.

## 3.2: PLANTING SHRUBS:

EXCAVATE PITS OR TRENCH TWO (2) TIMES DIAMETER OF BALLS OR CONTAINERS, AND 3" DEEPER THAN REQUIRED FOR POSITIONING AT PROPER HEIGHT. COMPACT A LAYER OF BACKFILL MIXTURE IN BOTTOM BEFORE PLACING PLANTS. CONTAINER GROWN MATERIALS SHALL BE PLANTED WITH 48 HOURS AFTER DELIVERY TO SITE. PLACE PLANT IN PIT AND BACKFILL AROUND PLANTS WITH BACKFILL MIXTURE, COMPACTED TO ELIMINATE VOIDS AND AIR POCKETS. WATER THOROUGHLY AS LAYERS ARE PLACED. FORM A 3" HIGH BERM OF SOIL BEYOND THE EDGES OF EXCAVATION. APPLY FERTILIZER AS SPECIFIED AND THEN MULCH WITH THE TYPE AND THICKNESS SPECIFIED ON PLANT LIST.

## 3.4: PLANTING GROUNDCOVERS

LOOSEN SUBGRADE TO DEPTH OF 4" IN AREAS WHERE TOPSOIL HAS BEEN STRIPPED. AND SPREAD BACKFILL MIXTURE.

SPACE PLANTS AS OTHERWISE INDICATED. DIG HOLES LARGE ENOUGH TO ALLOW FOR SPREADING OF ROOTS. COMPACT BACKFILL TO ELIMINATE VOIDS, AND LEAVE GRADE SLIGHTLY DISHED AT EACH PLANT. WATER THOROUGHLY. APPLY FERTILIZER AS SPECIFIED AND THEN MULCH WITH THE TYPE AND THICKNESS SPECIFIED ON PLANT LIST, LIFTING PLANT FOLIAGE ABOVE MULCH. MULCH SHALL BE SPREAD BEFORE PLANTING PLANTS IN POTS LESS THAN 1 GALLON SIZE (4", LINERS, ETC.).

# Specifications - Lawns and Grasses

## 2.1: PRODUCTS:

SOD SHALL MEET AMERICAN SOD PRODUCES ASSOCIATION STANDARDS FOR NURSERY GROWN SOD FOR THICKNESS OF CUT, PAD SIZE, STRENGTH OF SECTIONS, MOISTURE CONTENT AND THATCH. SOD SHALL BE GUARANTEED TO BE UNIFORM IN COLOR, LEAF TEXTURE, AND SHOOT DENSITY AND FREE OF WEEDS, DISEASE, FUNGUS, INSECTS OR OTHER IMPERFECTIONS AND SUFFICIENTLY KNITTED TO SUSTAIN GROWTH SOD SHALL BE MOWED FOR FINAL ACCEPTANCE.

FERTILIZE TURF AREAS WITH TYPE 1 FERTILIZER, COMPLYING WITH THE STATE FERTILIZER LAWS. THE FERTILIZER SHALL BE CHEMICALLY DESIGNATED WITH 12-8-8. PROVIDE AT LEAST 50% OF THE PHOSPHORIC ACID FROM NORMAL SUPER PHOSPHATE OR AN EQUIVALENT SOURCE PROVIDING A MINIMUM OF TWO UNITS OF SULFUR. THE AMOUNTS OF SULFUR AND ALL OTHER CHEMICAL SHALL BE INDICATED ON THE QUANTITATIVE ANALYSIS CARD ATTACHED TO THE UNOPENED BAG.

## 3.1: LAWN PREPARATION:

LOOSEN SUBGRADE TO DEPTH OF 4" AND GRADE WITH TOPSOIL PROVIDED ON SITE OR IMPORTED TO FINISH DESIGN ELEVATIONS. ROLL PREPARED LAWN SURFACE. WATER THOROUGHLY, BUT DO NOT CREATE MUDDY SOIL CONDITION.

FERTILIZE SOIL AT THE RATE OF APPROXIMATELY 10 LBS. PER 1000 S.F. SPREAD FERTILIZER OVER THE AREA TO RECEIVE GRASS BY USING AN APPROVED DISTRIBUTION DEVICE CALIBRATED TO DISTRIBUTE THE APPROPRIATE QUANTITY. DO NOT FERTILIZE WHEN WIND VELOCITY EXCEEDS 15 M.P.H. THOROUGHLY MIX FERTILIZER INTO THE TOP 2" OF TOPSOIL

SOD TYPE SPECIFIED ON PLANT LIST SHALL BE MACHINE STRIPPED NOT MORE THAN 24 HOURS PRIOR TO

LAY SOD STRIPS WITH TIGHT JOINTS, DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. WORK SIFTED SOIL MIX INTO MINOR CRACKS BETWEEN PIECES OF SOD AND REMOVE EXCESS SOIL DEPOSITS FROM SODDED AREAS. SOD ON SLOPES GREATER THAN 3:1 SHALL BE STAKED IN PLACE. ROLL OR TAMP LIGHTLY AND WATER THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.

# <u>Landscape Certificatoin</u>

LANDSCAPE CERTIFICATION: THE LANDSCAPE ARCHITECT SHALL PROVIDE FINAL CERTIFICATION TO THE OWNER AND MUNICIPALITY THAT PLANTS ARE INSTALLED PER THE DESIGN PLAN, DETAILS AND SPECIFICATIONS. ANY CHANGES TO THE PLAN WILL NEED TO HAVE THE LANDSCAPE ARCHITECT APPROVAL PRIOR TO INSTALLATION. CONFORMITY TO FLORIDA GRADE #1 IN THE ROOT BALL REQUIRES. THE LANDSCAPE ARCHITECT TO INSPECT TREES PRIOR TO INSTALLATION AT THE SITE. IT IS THE RESPONSIBILITY OF THE OWNER/GENERAL CONTRACTOR/LANDSCAPE CONTRACTOR FOR ORGANIZING INSPECTIONS OF PLANT MATERIAL PRIOR TO INSTALLATION.

## General Notes

SOD TO BE ST. AUGUSTINE UNLESS OTHERWISE NOTED ON PLANS

ALL PLANTING AREAS SHALL RECEIVE 100% COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM EQUIPPED WITH A RAIN SENSOR.

ALL CONSTRUCTION DEBRIS & HARDPAN TO BE REMOVED FROM PLANTING BEDS TO A DEPTH OF 30"

# UTILITES:

ABOVE AND BELOW GROUND UTILITIES SHALL BE VERIFIED AND LOCATED BY THE LANDSCAPE CONTRACTOR PRIOR TO COMMENCING WORK IN THE PROJECT AREA. IF UTILITY PLANS ARE AVAILABLE, THE CONTRACTOR SHALL EXAMINE THEM AND BRING ANY AND ALL CONFLICTS TO THE ATTENTION OF THE OWNER AND/OR LANDSCAPE ARCHITECT. WHEN WORKING IN AN AREA WHERE KNOWN UTILITIES EXIST, UTILITY LOCATIONS MAY NEED TO BE STAKED BY A SURVEYOR OR THE UTILITY COMPANIES. THE CONTRACTOR HAS THE OPTION TO CONTACT 811TO SCHEDULE LOCATION OF THE UTILITIES WHICH SUBSCRIBE TO THEIR SERVICE.



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ANDSCAPE ARCHITECTUR & PLANNING

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Seal

LC 0000177 Sheet Title:

Landscape Specification

Scale: N.T.S.

Sheet No.

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