



SHRUBS		
◦	AAF	DWARF BLUE LILY OF THE NILE
◦	CLJ	LITTLE JOHN WEeping BOTTLEBRUSH
◦	IVO	SHILLINGS HOLLY
○	MCE	WAX MYRTLE
●	VDE	VIBURNUM DENSE

[illegible]

SHEET TITLE

C. Seed:

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 1. Seed: All seed shall be furnished from an established seed dealer or certified seed grower; shall meet the requirements of the Florida Department of Agriculture regulations; and shall be labeled in accordance therewith. Seed shall be free of noxious weeds.
 2. Seed Planting: At a minimum the contractor shall test the soil to verify conditions are acceptable for turf growth.
 - 2.1. Submit agronomic soil tests for existing soil. Tests shall be performed by an approved agronomic soils testing laboratory and shall include a fertility test with the pH factor and the percentage of organic matter and a suitability analysis. The suitability analysis will include a cation tests, and evaluation of soil composition to determine the soil's suitability to sustain healthy turf. Submit written recommendations for soil suitability and all necessary soil amendments, fertilizer and chemical conditioner application rates for soil preparation, and a post maintenance fertilization program. Submit recommendations to bring the soil to a pH rating between 5.5 to 6.5 and to supply necessary nutrients to satisfactory level for planting and sustaining vigorous turf growth. Submit a copy of soil tests with suitability analysis and recommendations to Owner's Representative prior to any planting.
 - 2.2. At a minimum apply 100 lbs/acre of scarified, chemically treated Bahia Seed. Apply by hand or cone seeder, drill or hydro-seeding. The final result shall place the seeds $\frac{3}{4}$ " - $\frac{1}{2}$ " below the soil.
 - 2.3. At a minimum apply an additional 30 lbs/acre of quick growing rye grass over the entire area.
 - 2.4. Contractor is responsible for utilizing the best application method to prevent erosion of soil during seed growth.
 - 2.5. At a minimum apply mulch (straw, hay, wood, etc.) at a rate of 2.5 tons per acre during seeding.
 - 2.6. At a minimum apply fertilizer during seeding at a rate of 250lbs/acre using a 12-6-8 fertilizer or other ratio recommending by the soil testing. An additive of 4% magnesium is also required and should be verified with soil testing.
 - 2.7. Contractor is responsible for dust control and measure should be taken to minimize movement of dust in addition to seeding and mulching.

3. Watering: At a minimum apply 3/4" to 1" of water each week to the newly seeded areas to help germination until the grass is fully established. The contractor is responsible to monitor rainfall quantities and supplement with watering as necessary. The contractor shall record a watering information and furnish to the Owner's Representative when requested.
- 3.1. During the maintenance period the contractor shall supplement the rain water amount with hand watering as necessary to maintain an average of 1/2" of water weekly. At any time the owner's representative may require an immediate watering of areas they find suffering from a lack of water. The contractor will have 2 days to water these areas.
4. Maintenance: At a minimum the contractor shall be responsible for mowing the new established Bahia grass at four (4) different times throughout the 12 month warranty period. The timing of mowing shall be coordinated and approved by the owner's representative.
- 4.1. At a minimum the contractor shall implement a fertilization program that will adequately assist the continued health of the turfgrass. This should include a spring, summer, and fall fertilization treatment unless proper soil sample analysis is supplied to the owner's representative that warrants no treatment required. The owner's representative shall make the final decision.
- 4.2. At the request of the owner's representative, at any given time, any area of the project that has not properly been covered by turfgrass, that is undernourished, underwatered, eroded, or in any other way not acceptable to the owner's representative, the contractor will have seven (7) days to fully correct the problem at the contractor's expense.

- D. Fertilization, Pre-Emergent and Mulching:
1. Prior to mulching, apply fertilizer specified in Part 2-Products to tree, palm, shrub, groundcover and sod areas at the rate of 1.5 pounds of actual fertilizer per 100 square feet. Fertilizer application shall be witnessed by Landscape Architect-Owner's Representative.
- E. Mulching and Pre-Emergent Herbicide:
1. Apply pre-emergent herbicide to tree, palm, shrub, and Groundcover areas according to manufacturer's recommendations. Pre-emergent application shall be witnessed by Landscape Architect-Owner's Representative.
 2. Mulch surfaces of tree, palm, shrub and groundcover areas. Apply 3 inch depth of settled mulch, level with adjacent finish grades, sidewalks, curbs and sod. Mulch over root ball of plants shall be 1 inch maximum.
- F. Plant Protection:
1. Protect plants from damage due to landscape operations, operations by other contractors and trades, and others. Maintain protection during installation and maintenance periods, as approved by Landscape Architect-Owner's Representative. Treat, repair, or replace damaged plant materials.
- G. Clean Up:
1. Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose off Owner's property.

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- H. Sprigging:
1. The Contractor shall carefully coordinate the sprigging operation being careful not to sprig an area too large or move soil so swiftly that a reasonable watering operation could not follow. Carelessness on the part of the Contractor, as mentioned above, shall result in the Contractor being liable for the cost of additional sprigs and the replanting of same.
 2. A successful planting shall be defined as the insertion of 12 live sprigs per square foot.
 3. An automatic planting machine shall be used, the machine shall insert live sprigs at 1-1/2 to 2 inch centers and roll the surface smooth on one pass. A minimum rate for sports field shall be 400 bushels per acre and sprigs shall be "cut in" mechanically.
 4. The sprigs must be planted by the end of the day, and the soil must be tamped or troweled out. Watering must be maintained until the sprigs break down, about 10 days, then reduced to once a week until the sprigs well irrigated until complete coverage is obtained. Insects such as army worms are the biggest insect threat and can completely destroy a stand of immature sprigs overnight, it is the Contractors responsibility to monitor and treat all infestations as may be required.
 5. The sprigs must be properly fertilized until completely grown in (about 12 weeks in optimum season - do not attempt to sprig past August 1). Apply 1 lb of nitrogen/1,000 square feet per week, applied in 2, 1/2 lb applications for 12 weeks. The nitrogen source shall be 75% water soluble and 25% water insoluble. Test soil and apply lime as needed to meet, then apply a pre-plant "complete" fertilizer, 10-10-10 at least 2lb/M which needs to be lightly incorporated into the soil prior to sprigging.

6. Contractor shall be responsible for the planting and grow-in of all sprigged areas. The grow-in responsibilities shall include all mowing, fertilization monitoring, watering and any additional activities required to produce a weed-free dense turf. The grow-in and maintenance period shall be considered complete when a healthy, well-rooted, even-colored, viable lawn has been established, free of weeds, surface irregularities and no bare areas greater than 2-1/2 square inch/10 square feet, with no bare area greater than 1 sq in each. Contractor shall notify the Landscape Architect-Owner's Representative in writing requesting an inspection with 48 hours notice to determine final acceptance of all the sprigged areas.

B. Sod:

1. Topsoil shall be modified according to recommendations from agronomic soil-testing laboratory, prior to installation of sod, see Part 1-General.
2. Remove rocks, sticks or other deleterious material greater than 1 inch in any 1 direction prior to sod installation.
3. Spread grade material with 2" of compost mix and till into a depth of approximately 4".
4. Finish grade to receive sod shall be uniformly graded and irrigated prior to sod installation. Sod shall be laid end-to-end and side-to-side to form a uniform layer of un-broken, un-gapped turf. All uneven edges shall be squarely trimmed to allow close and firm fitting of each piece. All gaps or spaces shall be filled to a smooth level with topsoil as specified herein. Edges shall be "heeled-in" and finished smoothly without uneven exposure. Place sod with staggered joints closely butted, tamped or rolled to an even surface to the required finished grade. Avoid continuous seam along line of water flow in swales. Place sod in rows at right angles to slope. Peg sod on slopes greater than 3:1.
5. Upon completion of sod installation, sod areas shall be watered to provide a healthy growing condition. Watering shall be monitored and adjusted by the Contractor to prevent over or under watering.

percent magnesium

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