

MIROMAR LAKES PLANNING RESORT VILLAGE BOAT STORAGE AREAS LEE COUNTY LANDSCAPE PLANNING LAYOUT PLANNING (3) 5/25/2016 1:10:54 PM. PLOTTED BY MICHAEL B. ELGIN



Site Data
Sec 10-415 Open Space
Project Zoning / Land Use

See Engineering Site Plan
ZONING = RES #Z-13-020

Sec 10-420 Plant Material Standards
(a) All Plant Material is to meet the standards for Florida No. 1, as set out in Grades and Standards for Nursery Plants, Parts I and II, Department of Agriculture, State of Florida (amended)
(b) All Required Plant Material To Meet The Following Minimum Specifications.
Maximum required percentage of Native Palm Usage 50%
Minimum required percentage of Native Tree 75%
Minimum required percentage of Native Shrubs 50%
(c) Trees / Palms Min. Standards Min. 12" o.a., 2" cal., 4" spr.
Minimum Canopy Trees Specification Min. 12" c.l. clusters @ 3:1 with mature spread < 15' spr.
(d) Shrub Min. Standards Min. 24" o.a., 3 gal., 36" o.c.
Minimum Shrub Standards All plant beds / tree rings 24" from trunk to have Min. 2" depth mulch provided
(e) Mulch Requirements

(f) The following list of invasive exotic plants is to be removed from the developed area and shall be maintained free from invasive exotic plants in perpetuity.

Scientific Name	Common Name
SCHINUS terebinthifolius	Brazilian Pepper
MELALEUCA quinquenervia	Melaleuca
ACACIA auriculiformis	Earleaf Acacia
RHODOMYRTUS tomentosus	Downy Rosemyrtle
SOLANUM viarum	Tropical Soda Apple
CASIA ROMA speciosa	Australian Pine Species

Sec 10-416(d) Adjacent Property Buffer Requirement

Dry Boat Storage	
North Boundary Line	Abuts Adjacent Lake Tract
Required Buffer	5' Landscape Buffer
East Boundary Line	Abuts Internal Phase Line
Required Buffer	5' Landscape Buffer
South Boundary Line	Abuts Internal Phase Line
Required Buffer	5' Landscape Buffer
West Boundary Line	Abuts Internal Phase Line
Required Buffer	5' Landscape Buffer

Sec 10-420 Plant Material Standards
Plant Material Utilized to satisfy Requirements may consist of the following species:

TREES:	SHRUBS:
Acacia mangium, Pisonia Palm	Calliandra americana, Broadleaf
Banksia laevis, Black Olive	Chrysanthemum leucum, Cocksfoot
Boronia serrulata, Santa Rita	Cordia alliodora, Tree Orange
Cassia rosea, Pich Apple	Croton retusus, Tree Croton
Coccoloba whitei, Sea Grape	Croton retusus, Tree Croton
Conocarpus erectus, Green Buttonwood	Croton retusus, Tree Croton
Cordia alliodora, Tree Orange	Croton retusus, Tree Croton
Guajacum sanctum, Lignum vitae	Croton retusus, Tree Croton
Hibiscus tiliaceus, Maline Tree	Croton retusus, Tree Croton
Leucaena leucocephala, Tree Leucaena	Croton retusus, Tree Croton
Miconia grandiflora, Southern Magnolia	Croton retusus, Tree Croton
Myrica caribaea, Wax Myrtle	Croton retusus, Tree Croton
Passiflora edulis, Queen Pine	Croton retusus, Tree Croton
Quercus virginiana, Live Oak	Croton retusus, Tree Croton
Rapanea hirsuta, Royal Palm	Croton retusus, Tree Croton
Sporobolus virginicus, Beach Grass	Croton retusus, Tree Croton
Sporobolus virginicus, Beach Grass	Croton retusus, Tree Croton
Sporobolus virginicus, Beach Grass	Croton retusus, Tree Croton

25,843 sq.ft. Dry Retention Area
25,843 / 4 sq.ft. (2'o.c.) = 6,460 Cordgrass
(6,460) SPARTINA patens, Cordgrass
1 gal., 2'o.c., typ.

5' Landscape Buffer / Plant on exterior of chain link fence (typ.)
(420) CONOCARPUS erectus, Green Buttonwood
Min. 60" o.a., 45 gal., 4'o.c., full

LANDSCAPE INSTALLATION NOTES:

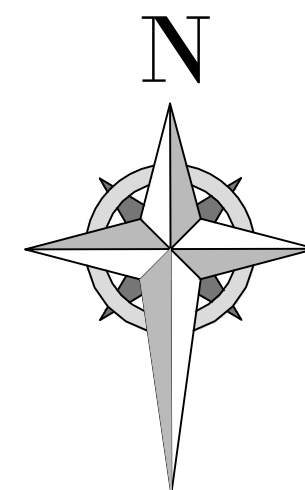
1. Landscape Contractor shall keep a field set of Planting and Irrigation Drawings and Landscape Specifications on site at all times during planting phase.
2. Landscape Contractor shall verify all quantities of material shown on the drawings prior to submitting his bid. Planting plan to take precedence over plant list. Final quantities of sod, top soil, crushed shell, gravel, rock, edging, and mulch to be verified on site by the Landscape Contractor when applicable.
3. Any building construction material or foreign material shall be removed from planting areas and replaced with acceptable top soil.
4. All plant material to be Florida Grade #1 or better, as defined in Grades and Standards for Nursery Plants, Florida Department of Agriculture. Plant Material noted as Specimen shall be Florida Fancy grade.
5. All sizes shown for plant material on the plan are to be considered minimum. All plant material must meet or exceed these minimum requirements for both height and spread. Any other requirements for specific shape or effect as noted on the plan shall also be required for acceptance. All trees to be SINGLE trunked, unless otherwise noted on plans.
6. All trees and palms 8' in height and over shall be staked according to the Staking Details. All non-biodegradable wrapping such as twine, wire, or nylon cord shall be removed from the tree root ball before planting. Top of tree root ball shall be planted flush with existing grade.
7. Mulch all planting beds (new and existing) with shredded eucalyptus bark mulch to a minimum depth of 2". In areas of existing mulch, the mulch shall be taken up and replaced after plant installation.
8. The Landscape Contractor shall verify the location of all plant material on site with the Landscape Architect prior to installation. The Landscape Architect shall flag the location of all major trees and palms. The Landscape Architect shall be given a 48 hour minimum notice prior to the plant arrival on site for flagging.
9. Care shall be taken not to disturb or damage any underground construction or 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 or Landscape Architect. Where underground construction or obstructions will not permit the planting of plant materials in accordance with the plans, new locations for the plant material will be designated by the Landscape Architect.
10. The Landscape Contractor shall exercise caution to protect all existing sod and irrigation. Any damage to the sod or irrigation shall be replaced or repaired to the original state by the Landscape Contractor at no additional cost to the owner.
11. The Landscape Contractor shall at all times keep the job site clean and free from accumulated waste material, debris, and rubbish. All sod removed for planting areas shall be removed from the site.
12. The Landscape Contractor shall fully inspect and familiarize himself with the site and all work conditions so as to include in his bid a cost for removal of exotic plant material from the project site as required by Lee County Code. Existing plant removals, transplants, sod adjustments, debris removal and finish grading, shall also be included.

13. Existing plant material not shown on the plan and in conflict with new planting shall be evaluated at the time of new planting installation. A decision shall be made at the time to keep the existing plant material and adjust the plan or remove the existing plant material.
14. INSTALL ALL GROUND COVER PLANTS 18" AND CENTERS OF ALL SHRUBS, 36" AWAY FROM THE EDGES OF ALL WALKS, DRIVEWAYS, TERRACES, WALLS, OR ADJOINING PLANTING BED EDGES.
15. Tree removal to include backfilling of holes to a level flush with the existing grade. All material to be removed from site.
16. Site preparation shall include removal of any weeds, patches of grass, clean-up of any dead material and finish grading.
17. The Landscape Contractor shall review the existing irrigation system prior to submitting his bid to cover any cost for adjustments that may need to be made due to the location of new or transplanted plant material.
18. The Landscape Architect will advise the Contractor on pruning and trimming trees and shrubs. The Contractor shall notify the Landscape Architect 24 hours prior to such work. All pruned and trimmed plant material shall be fertilized with an 13-3-13 sulfur coated fertilizer.
19. Berms are in addition to finish grade. Finish grade provided by others.
20. Planting soil mix (1/3 screened peat, 1/3 composted pine bark, 1/3 coarse sand, PH adjusted to 6.5) to be used in seasonal planting beds only.
21. Location of plant materials (trees, palms, shrubs, ground covers and vines), walks, and other landscape features may be relocated on site at the discretion of the Landscape Architect, Owner, or Developer.
22. Quantities and specifications of plant materials may be subject to change during the installation at the discretion of the Landscape Architect, Owner, or Developer.
23. All gravel/shell areas shall be installed over approved filter fabric. Install pressure treated 2x6" wood edging to contain designated gravel/shell areas. nated with general contractor and electrical/ mechanical engineer.

IRRIGATION INSTALLATION NOTES:

All Installations Within Development Order Limits To Utilize Automatic Irrigation System. Manufacturer / Specifications to be determine at a future date.

1. All systems to utilize low angle or flat, rotors, spray heads, and drip line system to produce an efficient xeric watering operation.
 2. All systems to be on automatic program controllers. Controller locations to be site verified and coordinated with general contractor and electrical/ mechanical engineer.
 3. All systems to be on an automatic rain sensor shut off devices.
 4. Head locations are diagrammatic and serve only as a guide for installation purposes.
 5. Irrigation contractor responsible for 100% full coverage in accordance to good industry standards.
 6. Irrigation contractor responsible for coordination with project mechanical contractor for adequate water supply, psi, meter and main line locations and required sleeves for access to all areas requiring irrigation.
 7. All systems to utilize appropriate back flow preventor in accordance to Lee County codes.
 8. Adjust the radius of spray on irrigation heads as needed to provide proper double coverage. Avoid over-spray on pavement and walls. Heads shall be placed a minimum of 6" from pavement and walls. Pressure compensating heads shall be used to eliminate aerosol spraying.
 9. Pipe sizing shall be determined by friction loss chart method with maximum velocity not to exceed 5 fps.
 10. Zone outline and calculation provides performance standards required. Head layout will be supplied and / or field coordinated with irrigation contractor.
 11. Quick coupler hose bibbs in lockable recessed valve boxes shall be provided as noted on plan in accordance with all applicable codes.
 12. Constant pressure pipe and sleeves shall be schedule 40 pvc.
 13. Zone laterals shall be class 200 pvc.
 14. Installation shall be subject to all general project specifications and requirements. Specific irrigation specifications to be supplied prior to work commencement.
 15. The locations of valves may change from the plan due to the location of the water source and/or electrical supply. Field adjust zones as needed with the approval of the landscape architect.
 16. The irrigation contractor shall provide AS BUILT DRAWINGS to the owner showing all field adjustments to the systems upon completion of the project.
 17. The irrigation contractor is responsible for all piping and wire take-offs for the project, as well as all fittings and connections at the water source.
 18. All electric valves shall be installed below finish grade in AMETEK valve boxes. Valves should be located in close proximity to each other as much as possible.
 19. Full one year warranty to be provided from date of project final acceptance.
 20. All irrigation heads in planting beds will be 12" pop-ups and sod areas 4" pop-ups. All stream bubbler heads shall be on black painted PVC risers. Any use of shrub risers shall be determined on site after the installation of plant material.
 21. The following criteria shall be used for class 200 PVC piping. Minimum pipe size shall be starting at the furthest point from the valve with increased sizes in proportion to the increased gpm getting closer to the valve.
- | Gallons per minute | Pipe size |
|--------------------|----------------|
| 1 - 16 gpm | maximum 1" |
| 17 - 28 gpm | maximum 1 1/4" |
| 29 - 35 gpm | maximum 1 1/2" |
| 36 - 55 gpm | maximum 2" |
| 56 - 60 gpm | maximum 2 1/2" |
| 81 - 120 gpm | maximum 3" |
| 121 - 210 gpm | maximum 4" |



REGISTERED LANDSCAPE ARCHITECT
Digitally signed by
Michael B. Elgin
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Date: 2016.05.04 15:11:41 -04'00'
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UPDATED:
May 4, 2016