

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

ARTICLE IV. LANDSCAPING

Sec. 407.40. Applicability.

- (a) The standards established in this Article are the minimum requirements for the design, plant selection, installation, and maintenance of landscape elements and site improvements and shall apply to all new development, except for family homestead subdivisions approved in accordance with Section 407.75. Except as specifically exempted in Chapter 407 Article VII, TNDs or TODs shall comply with the provisions of this Article.
- (b) The requirements of this Article shall also apply to the redevelopment, reconfiguration, expansion or change of use of a previously developed site, unless any of the following exemptions apply:
 - (1) Modifications to an existing developed site resulting in an addition of less than one thousand five hundred (1,500) square feet of impervious area through administrative development plan review are exempt from the requirements of this Article, provided this provision may only be used once per site and the proposed expansion does not create off-site impacts.
 - (2) New construction of paved vehicular use area of less than two thousand (2,000) square feet is exempt from the requirements of Section 407.43.2(d) Paved vehicular use areas.
 - (3) Redevelopment, reconfiguration, or expansion of the following existing uses if established prior to 2006 shall be exempt from the requirements of Section 407.43.2(a) Site tree canopy, for thirty (30) percent of the overall site to be under mature tree canopy within twenty (20) years:
 - a. Non-commercial uses.
 - b. Commercial uses on sites less than 1 acre.
 - (4) If at any time during a five-year period, expansions exceed the aggregate of the allowable exemptions listed above, the permit for construction that exceeds the exempted amount shall require full compliance with this Article.
- (c) Prior to the installation of any landscaping within public rights-of-way, a right-of-way use permit shall be obtained through the Alachua County Public Works Department.
- (d) In the event that a principal use and some or all of the parking area (required or otherwise) serving the principal use are located on separate parcels, as permitted by this ULDC, landscape required by this Article may be apportioned among all parcels in complementary use as depicted on the landscape or planting plan and approved by the DRC.

Sec. 407.41. Landscape and planting plan objectives.

Landscape and planting plans shall be designed to provide green infrastructure that contributes to a healthy, safe, resilient, livable community through the following objectives:

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

- (a) Enhance natural areas and diverse native plant communities.
- (b) Conserve and protect water resources through resilient landscaping that requires little to no supplemental irrigation or additional inputs (fertilizer, pesticides, herbicides) once established.
- (c) Contribute to urban forest tree canopy that mitigates the urban heat island effect.
- (d) Reduce stormwater pollution, temperature, and rate of flow from developed areas, and disconnect impervious surfaces through low impact design/green stormwater infrastructure.
- (e) Calm traffic and increase the comfort and safety of walking and biking as alternative forms of transportation.
- (f) Facilitate continuity of on-site and off-site open space and greenway systems.
- (g) Promote local food systems through the use of edible landscaping.
- (h) Protect visual and acoustical privacy, and attenuate noise and glare.

Sec. 407.42. Application requirements.

- (a) *Types of plans.* All development that requires development plan approval requires submittal and approval of one of the following:
 - (1) *Landscape plan.* For all uses requiring the installation of two thousand (2,000) or more square feet of new planted areas or eight (8) or more trees, a landscape plan shall be submitted and prepared by a state registered landscape architect.
 - a. Irrigation systems must be approved by the Alachua County Environmental Protection Department prior to installation, in accordance with Article VI, of Chapter 77, Water Quality Code, which limits permanent irrigation to 50% of the permeable area as defined in Chapter 410, Article III, Defined Terms.
 - b. A soil augmentation plan is encouraged for all newly planted areas in accordance with Section 407.46(b).
 - (2) *Planting plan.* For all uses requiring the installation of less than two thousand (2,000) square feet of new planted areas or eight (8) trees, a planting plan may be submitted by either a landscape designer or a state registered landscape architect. Irrigation systems must be approved by the Alachua County Environmental Protection Department prior to installation, in accordance with Article VI, of Chapter 77, Water Quality Code, which limits permanent irrigation to 50% of the permeable area as defined in Chapter 410, Article III, Defined Terms.
- (b) *Minimum submittal criteria.*
 - (1) All landscape plans shall be drawn to scale, have a north arrow, and accurately depict all buildings, pavement, on-site facilities, utilities, and lighting systems. The landscape plan

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

or accompanying development plan shall identify the permitted use of adjacent parcels and provide the total square footage of all pavement and permeable area on-site as defined in Section 77.03, Water Quality Code.

- (2) Stormwater basins shall be identified as either wet or dry.
- (3) A plant schedule shall be provided showing the botanical name, size, spacing and number of all required plant materials.
- (4) Landscape notes and details shall be provided that are consistent with the requirements of Section 407.45, Installation.
- (5) Architectural symbols depicting trees to be installed shall show the estimated canopy crown diameter in 20 years as identified in Table 407.50.1.

Sec. 407.43. Landscaping design principles.

- (a) *Resilient landscaping.* Resilient landscaping is a type of quality landscaping that does not require the ongoing application of chemical inputs and permanent supplemental irrigation, conserves water and protects the environment, is adaptable to local conditions, and is drought tolerant. Resilient landscaping techniques minimize water use with site appropriate plants, an efficient temporary watering system, proper planning and design, soil analysis, the use of soil amendments, the protection of native soils and vegetation, and proper maintenance. The following water efficient principles shall be applied to the landscape or planting plan:
 - (1) Permanently irrigated turf grass shall be limited to functional areas that are designed for pedestrian or recreational uses. Preference should be given to drought tolerant turf grass species such as bahiagrass, centipedegrass, or mixed species lawns that can function without irrigation and fertilizer.
 - (2) No turf shall be used in paved vehicular use area landscape islands and strips nor in any planting area less than 4 feet wide in any direction.
 - (3) Groundcovers are encouraged wherever possible as an alternative to turf due to their lower maintenance requirements.
 - (4) Plant material shall be selected that is best adapted to the particular site and environmental conditions in which they are proposed.
 - (5) Landscaped areas may be depressed to accommodate stormwater runoff and provide additional rainwater to plants.
 - (6) *Credit for existing plants.* In order to provide soil protection and reduce the need for establishment irrigation, the use of existing vegetation is encouraged. Credit is permitted for existing plant material provided such material meets the minimum standards of this Article.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

- (b) *Firewise.* Landscape or planting plans within wildfire hazard areas should incorporate firewise landscaping techniques to help reduce the risk of wildfire, including:
- (1) Creating a 30 feet wide defensible space zone around buildings. Such zones shall provide space for fire suppression equipment in the event of an emergency and progressively limit plantings near structures to carefully spaced fire resistant species.
 - (2) Placing low growing species and groundcovers beneath canopy trees and rooflines to avoid creating a continuous fuel source from ground to tree or roof.
 - (3) Utilizing driveways, lawn areas, and walkways to provide firebreaks between large areas of dense vegetation.
 - (4) Selective thinning of fire prone plant species in existing vegetation areas to reduce fuel loads. A list of fire prone species shall be available from the Environmental Protection Department.
- (c) *Landscaping in utility service areas.*
- (1) Proposed overhead or underground utility service facilities shall be designed to provide utility providers' separations from required trees and landscaping.
 - (2) Proposed trees and landscaping shall be designed to provide utility providers' separations from existing overhead or underground utility service facilities.
 - (3) Any vegetation within a public utility easement shall conform to accepted vegetation management standards. In all cases the minimum requirements of this Article shall be met.

Sec. 407.43.1. Required buffers.

- (a) General provisions for required buffers.
- (1) Buffers on residential developments shall be designated as common areas and shall not be included within lots.
 - (2) Buffers on nonresidential sites may count toward setback requirements.
 - (3) The following are permitted in buffers:
 - a. Fire hydrants, concrete valve markers, underground utility markers, switches.
 - b. Bus shelters or benches.
 - c. Incidental signs not exceeding two (2) square feet in area.
 - d. Screening.
 - e. Portions of the stormwater management system provided the character and intent of the buffer is not diminished. At a minimum, the buffer shall include all the required plantings at the normal grade of the site at the property line.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

- f. Pedestrian access through a buffer to adjacent uses may be required.
 - g. Utility lines crossing provided that the amount of buffer compromised is minimized and the specified number of plantings required in Table 407.43.2 is provided.
 - h. Trails, provided the character and intent of the buffer is not diminished.
- (4) The following are not permitted in buffers:
- a. Structures, except those specified above in c.
 - b. Parking.
- (5) Existing non-invasive vegetation may be used to fulfill buffering and screening requirements if it is of sufficient height and opacity or can be augmented to reach a sufficient height and opacity to provide an effective visual and acoustical buffer giving consideration to the existing and proposed uses.
- (b) *Required project boundary buffers.*
- (1) Project boundary buffers shall be located along the outer perimeter of the parcel to be developed extending inward from the parcel boundaries.
 - (2) Minimum buffer types required on property boundaries between zoning districts are shown in Table 407.43.1.
 - (3) Land uses requiring a special use permit or special exception may require additional project boundary buffering by the Board of County Commissioners.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
 TITLE 40 - LAND DEVELOPMENT REGULATIONS
 CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
 ARTICLE IV. LANDSCAPING

Table 407.43.1 Project Boundary Buffer Standards							
Zoning or Existing Use of Subject Property	Zoning or Existing Use of Adjacent Property						
	A, A-RB	Single-family Residential	Multi-family Residential; Institutional (any district)	AP, BP, HM, RP (non-residential)	BR, BR-1, BH, BA, BA-1, BW	ML	MS MP
A, A-RB	None	AG	AG	None	None	None	None
Single-family Residential	AG	None	L	M	H	H	H
Multi-family Residential; Institutional (any district)	AG	M	None	L	M	H	H
AP, BP, HM, RP (non-residential)	None	H	M	None	None	L	M
BR, BR-1, BH, BA, BA-1, BW	None	H	M	None	None	L	M
ML	None	H	H	L	L	None	L
MS and MP	M	H	H	M	M	L	None

KEY TO BUFFER TYPES: See Below in Table 407.43.2

(4) Minimum width and planting specifications for required project boundary buffers are shown in the table below:

Table 407.43.2 Project Boundary Buffer Minimum Width and Planting						
Buffer Type	Minimum Width	Plant Material Per Each 100 Linear Ft.				
		Canopy Tree	Understory Tree	Evergreen Tree	Shrub	Screening
AG - Agriculture	5 feet	0	0	0	10	No
L - Low	15 feet	2	2	0	0	No
M - Medium	25 feet	3	4	0	40	Yes
H - High	40 feet	5	7	3	60	Yes

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

- (5) The DRC may reduce the required buffer width by up to fifty (50) percent where it can be shown by the applicant that the reduction is warranted by unique site features or characteristics. This may include, but is not limited to, situations where the buffer area would be located adjacent to a water body or Open Space area or if a permanent buffer exists on the adjacent property.
 - (6) The DRC may approve the placement of a buffer at an adequate distance from the parcel boundary when it can be shown to provide an effective visual and acoustical buffer giving consideration to the existing and proposed uses or that a conflict exists with an existing utility easement or to accommodate unique site features or characteristics provided the character and intent of the buffer is not diminished.
- (c) *Project boundary buffer—Landscaping and screening.*
- (1) Appropriate tree species for planting in buffers are listed in Table 407.50.1.
 - (2) The required planting shall generally be in an irregular line, spaced or grouped to provide a natural appearance, and occupy the entire width of the buffer so as to provide an effective visual buffer when plants and trees achieve mature growth.
 - (3) The plant materials specified in Table 407.43.2 are separate and distinct components of each one hundred (100) linear feet of buffer; the total quantity of materials required shall be determined based the actual length of the buffer.
 - (4) Canopy trees shall be planted no closer than three (3) feet from any property line.
 - (5) Where screening is required or proposed in conjunction with a project boundary buffer as indicated in Table 407.43.1, the location of the wall, fence, or berm within the buffer strip shall be subject to the determination of the development review body and it shall consist of one or a combination of the following:
 - a. A minimum six-foot tall masonry wall such as brick, stone, granite, concrete block or concrete panels;
 - b. A minimum six-foot tall opaque fence, such as vinyl or wood (no chain link);
 - c. Existing dense vegetation (Subsection 407.43(a)(5)); or
 - d. A berm three (3) feet in height, located entirely within the buffer and planted with materials that at maturity shall reach a combined minimum height of six (6) feet, shall have a stabilized slope of one to three (1:3) rise/run, and shall be completely covered with shrubs or ground covers.
 - (6) Where a wall or fence is used to satisfy the screening requirements of Table 407.43.1, the following requirements apply:
 - a. Pedestrian connections through walls or fences that can provide access to adjacent neighborhoods or other uses may be required.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

- b. Wildlife connections through walls or fences that can provide ecopassage.
 - c. Walls and fences more than one hundred (100) feet long and fronting a public right-of-way shall have varying wall alignments, use appropriate scale/massing for planted materials, and include decorative features and sound absorbing or scattering materials.
 - d. Walls and fences fronting a public right-of-way shall provide any required shrub material on the side of the right-of-way. Walls and fences not fronting a public right-of-way shall not require shrubs.
- (d) *Required roadway buffers.* The following types of roadway buffers shall be required (road classifications are provided in the transportation mobility element of the Comprehensive Plan). Sight triangles shall be provided for all applicable intersections demonstrating that trees and landscaping comply with the FDOT Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (commonly known as the Florida Greenbook).
- (1) *Interstate I-75 buffers.*
 - a. All development within urban residential Future Land Use designations shall provide a high density buffer, as described in Table 407.43.2, along the entire project boundary adjacent to the I-75 right-of-way. This buffer shall not be reduced in width.
 - b. All other development shall provide a medium density buffer, as described in Table 407.43.2, along the entire project boundary adjacent to the I-75 right-of-way. This buffer shall not be reduced in width.
 - (2) *Arterial or collector street buffers.* All developments located along either an arterial or a collector street shall be required to provide one of the following buffers along the entire street frontage. Arterial and collector street buffers shall average ten (10) feet in width provided that no portion of the street buffer shall be less than five (5) feet in width. The plant materials specified below are separate and distinct components of each one hundred (100) linear feet of buffer.
 - a. Three (3) canopy trees per one hundred (100) linear feet of property frontage, located within a ten-foot wide landscape buffer; or
 - b. Two (2) canopy trees and two (2) understory trees per one hundred (100) linear feet of property frontage, located within a ten-foot wide landscape buffer; or
 - c. Under utility lines only, four (4) understory trees per one hundred (100) linear feet of property frontage, located within a ten-foot wide landscape buffer.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

(3) *Measurements.*

- a. Driveway widths (measured at the inside edge of the buffer) shall be subtracted from the linear feet of street frontage length for the purpose of calculating the plant material required.
- b. All buffers shall be measured from the future right-of-way line determined during development plan review, unless additional public utility easement is required between the right-of-way line and the buffer to provide utility clearance.
- c. If a street is platted but has not been constructed, it shall be buffered and treated as a street, even where no pavement currently exists.

Sec. 407.43.2. Landscaping requirements.

(a) *Site tree canopy.*

- (1) Development plans shall be designed such that thirty (30) percent of the overall site will be under mature tree canopy within twenty (20) years.
 - a. This requirement shall be fulfilled using any existing tree canopy retained in accordance with Chapter 406, Article II, Trees and Native Vegetation, and new tree canopy provided in accordance with this Article.
 - b. Calculations shall be provided demonstrating the required site tree canopy coverage. For new tree canopy, the estimated 20-year tree canopy diameters in Table 407.50.1 shall be used.
 - c. A residential development may count up to four hundred (400) square feet of new tree canopy coverage per platted lot in accordance with Chapter 406, Section 406.12.
 - d. Solar facilities as defined in Chapter 410, subdivisions with no more than 9 lots in the rural agricultural area as provided in Sec. 407.76, family homestead subdivisions, and personal wireless service facilities are exempt from this tree canopy requirement.
- (2) Deciduous tree canopy shall be concentrated along the southern and western exposures of buildings to enhance shading and energy conservation where possible.

(b) *Streetscapes.*

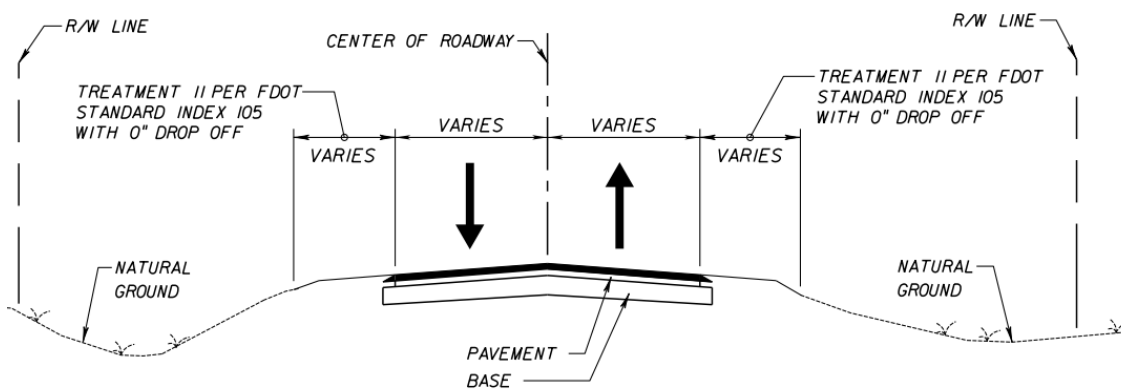
- (1) Street trees shall be provided along both sides of streets and roads and in medians, consistent with Table 407.141.1 Street Design Specifications.
- (2) Street trees shall be provided between the street and the sidewalk whenever space permits to protect pedestrians and calm traffic.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

- (3) Street trees shall be provided within planting strips or sidewalk tree wells per the following:
 - a. Tree species appropriate for use as street trees are indicated in Table 407.50.1 Appropriate Tree Species.
 - b. Street trees shall be spaced so that the distance between two (2) adjacent trunks is no less than one-half ($\frac{1}{2}$) the sum of their 20-year canopy diameters and no more than the sum of their 20-year canopy diameters as listed in Table 407.50.1.
 - c. Where planting strips are used, on-street parking spaces may be located between street trees provided the above spacing is maintained.
 - d. Requirements for tree root zone volume and depth, pervious surface planting areas and dimensions, and distance from impervious surfaces are specified in Table 407.45.1., including for constrained areas where alternative planting systems such as root barriers, engineered soils, and field stone substrates are required to prevent damage to surrounding infrastructure.
- (4) Planting strips, medians, roundabouts, bulb-outs, or other planting areas may be required to accommodate stormwater runoff to meet the performance standards of Chapter 77, Article I, Water Quality Code.
- (5) Sight triangles shall be provided for all applicable intersections demonstrating that street trees and landscaping comply with the FDOT Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (commonly known as the Florida Greenbook).

Figure 407.43.1 [PLACEHOLDER ONLY – TO BE EDITED]



PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

(c) *Pedestrian walkways and gathering areas.*

- (1) Areas dedicated to pedestrian circulation that are not coincident with a street or in a right-of-way shall have canopy trees spaced no more than an average of forty (40) feet on-center on alternating sides of the walkway.
- (2) Paved pedestrian gathering areas shall have perimeter canopy trees at a minimum average of one (1) tree for every thirty (30) feet of the linear distance of the perimeter. The distance between such trees shall not exceed 55 feet nor shall they be planted closer than 25 feet apart.
- (3) Canopy tree species are identified in Table 407.50.1.

(d) *Paved vehicular use areas.*

- (1) Tree species appropriate for use in paved vehicular use areas are indicated in Table 407.50.1 Appropriate Tree Species.
- (2) Screening shall be provided where a paved ground surface area lies within twenty-five (25) feet of, and is visible from, any street right-of-way. The screening shall consist of sufficient shrubs to provide a visual screen of seventy-five (75) percent opacity. The shrubs shall achieve a minimum height of three (3) feet within three (3) years. Shrubs shall be planted in a strip no less than five (5) feet in width and may be planted within any required street buffer.
- (3) Landscape islands with canopy trees shall be located at an average of every ten parking spaces. At no time shall a row of parking have landscape islands greater than 120 feet apart or closer than 30 feet apart. Additionally, terminal landscape islands containing a tree shall enclose each row of parking spaces.
- (4) Paved vehicular use areas with two or more rows of interior parking shall provide eight-foot-wide landscape strips between the rows allowing for two-foot vehicle overhangs on each side. Canopy trees shall be planted every 50 feet on average within these landscape strips, but outside of the two-foot vehicle overhangs. As an alternative, every other row of head-to-head parking may provide a 16-foot-wide landscape strip with shade trees every 35 feet on average. These wider landscape strips may contain sidewalks and may be used to fulfill the requirement of (d)(8) below.
- (5) Paved vehicular use area perimeters that do not contain parking spaces or abut buildings shall provide canopy trees at a minimum average of one (1) tree for every thirty (30) feet of the linear distance of the perimeter, excluding the width of driveways. The distance between such trees shall not exceed 55 feet nor shall they be planted closer than 25 feet apart.
- (6) Canopy trees appropriate for use in paved vehicular use areas are identified in Table 407.50.1 and shall be located to maximize the shading of the pavement.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

Flexibility shall be provided for tree locations and spacing where solar facilities are proposed as on covered parking spaces; however, in all cases the required amount of trees shall be provided.

- (7) Requirements for tree root zone volume and depth, pervious surface planting areas and dimensions, and distance from impervious surfaces are specified in Table 407.45.1, including for constrained areas where alternative planting systems such as root barriers and engineered soils are required to prevent damage to surrounding infrastructure.
- (8) Required landscape islands shall contain landscaping materials only and shall not contain utilities or other infrastructure equipment such as fire hydrants, parking lot lights, transformers, air conditioning units, or water meters. Additional islands may be added for placement of utility infrastructure equipment with shrubs provided to screen the equipment when feasible.
- (9) Parking areas of more than 40 parking spaces shall be designed to ensure that at least 25% of the stormwater runoff is pre-treated before discharge to the master stormwater system using Low Impact Design (LID)/Green Stormwater Infrastructure stormwater techniques such as:
 - a. Landscape islands and landscape strips designed to accommodate stormwater management and minimize nutrient, sediment, and runoff. Curbs separating landscaped areas from parking areas may have curb cuts or be perforated to allow stormwater runoff to pass through them. Stormwater overflow must be accommodated.
 - b. Parking spaces of pervious materials such as pavers or pervious pavement.
- (10) When vehicular use areas intersect a public right-of-way, landscaping shall be used to define the intersection. Sight triangles shall be provided for all applicable intersections demonstrating that street trees and landscaping comply with the FDOT Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (commonly known as the Florida Greenbook).
- (11) The following additional buffering shall be provided where off street loading exists:
 - a. Off street loading areas shall be screened from any residential district. Screening shall be consistent with the requirements of Subsection 407.43.1(c)(7).
 - b. Screening of off-street loading areas may be waived by the reviewing body if the adjacent use will not be adversely impacted, such as in the event both uses have facing loading bays.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

- c. In the ML district off-street loading areas shall be screened from any public right-of-way or office use. Screening shall be consistent with the requirements of Subsection 407.43.1(c)(7).
- (e) *Stormwater management facilities.*
- (1) Stormwater management facilities shall be designed to resemble natural areas in form and function, or provide usable human scale space, and shall be consistent with Article IX, Stormwater Management, of this Chapter.
 - (2) Stormwater management areas shall be landscaped with native species of trees, shrubs, and perennials appropriate to the function as either a wet or dry basin.
 - (3) The basin and the landscaping area shall be designed to:
 - a. Be an integral part of the overall development as a physical or visual amenity that provides either:
 1. Usable space incorporating human scale design features, landscaping, and articulation that add interest to rectilinear shapes or walled basins, such as landscaped terracing, walkways, and gathering spaces (i.e., plazas, squares, pocket parks) designed to stimulate pedestrian activity and complement the appearance and form of the overall development; or
 2. An aesthetic focal point or feature that resembles a natural area, such as a pond, creek, or other naturalistic feature, utilizing curvilinear shapes and a diversity of appropriate plant species.
 - b. Preserve existing tree groupings.
 - c. Include canopy trees spaced no more than an average of every thirty-five (35) linear feet around the basin perimeter. Spacing of trees may be closer when trees are planted in groups for aesthetic effect.
 - d. Maintain at least twenty-five (25) percent of the area of the basin, including the shoulders and maintenance area, using native landscape plantings, excluding turf grass.
 - e. Certified apparently weed-free sod shall be used.
 - f. Be integrated with the landscape or planting plan for the site.
 - g. Identify areas for access for normal and routine basin maintenance. Landscape plantings shall not reduce the width of the required maintenance access.
 - (4) Basins that use chain-link fencing shall provide an additional five-foot wide area outside the fence landscaped with at least three (3) shade trees, two (2) understory trees, eight (8) large shrubs, and thirteen (13) small shrubs for every one hundred (100) feet or part thereof of fencing.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

Sec. 407.44. Plant material requirements.

- (a) *Diversity.* New plantings of any of the following shall not include more than fifty (50) percent of any one (1) genus nor twenty-five (25) percent of any one (1) species:
- (1) Eight (8) or more trees.
 - (2) Sixteen (16) or more shrubs.
 - (3) Thirty-two (32) or more groundcovers.
- (b) *Native species.* At least seventy-five (75) percent each of new tree, shrub, and groundcover plantings shall be native species. Cultivars of native species are considered native species. Up to 10% of these requirements may be met with edible species identified in Table 407.50.1. and Table 407.50.2.
- (c) *Plant quality.* Plant materials shall meet the following minimum standards:
- (1) All nursery plants, including trees, shrubs and groundcovers shall conform to standards for Florida Grade #1 or better according to the current, most recent edition of "Grades and Standards for Nursery Plants", 2nd edition, published by the Florida Department of Agriculture and Consumer Services, Division of Plant Industry, and available from the Florida Nursery, Growers, and Landscape Association (FNGLA). Nursery invoices or labels shall clearly specify that Grade #1 or better plants were purchased for installation.
 - (2) All turf shall be certified apparently free of noxious weeds by the Florida Department of Agriculture and Consumer Services, Division of Plant Industry.
- (d) *Plant species and sizes.*
- (1) *Trees.*
 - a. All trees shall be selected from Table 407.50.1 Appropriate Tree Plantings, which lists the appropriate planting locations for each species including street trees, tree wells, vehicular use areas, basin areas, common areas, and buffers. Any variation from this list shall be approved by the County forester/landscaping inspector.
 - b. Trees shall meet the minimum size standards shown in Table 407.44.1.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

Table 407.44.1 Minimum Tree Size Standards			
Tree Location	Minimum Size		
	Height (ft)	Caliper	Container
Street Tree, Tree Well, Parking Islands	5	1.5"	15 gals
Basin and Other Areas	4	3/4"	7 gals

- c. A maximum of five (5) percent of new proposed trees may exceed 4 inches caliper size with County Forester/Landscaping Inspector approval.
 - d. A maximum of ten (10) percent of new proposed trees may be specimen native species that are not generally available in the required minimum size.
 - e. A maximum of ten (10) percent of new proposed trees may be palms. Certification shall be provided at Certificate of Occupancy that all palms on the approved development plan are free of Lethal Bronzing Disease.
- (2) *Shrubs.*
- a. Shrubs shall consist of woody evergreen and/or non-deciduous plants a minimum of two (2) feet in height in a minimum three-gallon container. When planted as a hedge, the maximum spacing for 24-inch high shrubs shall be thirty-six (36) inches on center.
 - b. Shrub species that are significantly larger than the required minimum in paragraph a above may be counted as two (2) or more shrubs, on a case-by-case basis, if approved by the DRC. Spacing for the larger size shrubs shall be determined by the County forester/landscaping inspector.
- (3) *Ground covers.* All groundcovers shall be selected from Table 407.50.2 Appropriate Groundcover Plantings. Ground covers shall be planted in such a manner as to present a finished appearance and reasonably complete coverage within one (1) year after planting.
- (4) *Turf grass.*
- a. Turf grass areas may be sodded, plugged, sprigged, or seeded except that solid sod shall be used in swales, slopes, berms, or other areas subject to erosion.
 - b. Any netting contained within sod shall be certified by the manufacturer to be biodegradable within a period of three (3) months from installation in conformance with FDOT Section 981 and shall be cut even with the sod edge and not left exposed.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

(5) *Synthetic plants.* Synthetic or artificial turf, trees, shrubs, ground covers, or vines shall not be used in lieu of the plant requirements in this Article.

(e) *Prohibited plants.*

(1) Those plants listed in Florida Administrative Code Section 62c-52.011, Prohibited Aquatic Plants, shall be prohibited. This list of prohibited aquatic plants is available online and copies are also available from the Alachua County Environmental Protection Department.

(2) Those plants listed in Florida Administrative Code Section 5B-57.007, "State Noxious Weed List" shall be prohibited. This list of prohibited noxious weeds is available online and copies are also available from the County.

(f) *Substitutions.* Substitutions of tree or plant material on an approved plan may be made with prior County staff approval based on the site conditions, and insofar as the required or approved amounts of species diversity, tree canopy coverage, basin plantings, tree mitigation, street trees, etc. are met.

Sec. 407.45. Installation.

All materials shall be installed according to sound horticultural principles. All installations shall be performed specific to type, species, soils, environmental conditions, and include establishment through water and maintenance to ensure maximum survivability.

(a) *Trees.*

(1) Installation of trees shall conform to Table 407.45.1.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
 TITLE 40 - LAND DEVELOPMENT REGULATIONS
 CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
 ARTICLE IV. LANDSCAPING

Table 407.45.1 Tree Installation Standards						
Root Zone Minimum Criteria	Tree Type per Table 407.50.1					
	Live Oak		Large Tree		Small Tree	
Volume for: - Street Trees - Tree Wells - Parking Islands and Strips	900 c.f.		600 c.f.		400 c.f.	
Depth for: Trees in All Locations (minimum – maximum)	30” – 36”		24” – 36”		18” – 24”	
Pervious Surface Minimum Criteria	Standard	with Alternative Planting Systems	Standard	with Alternative Planting Systems	Standard	with Alternative Planting Systems
Area	300 s.f.	36 s.f.	200 s.f.	32 s.f.	200 s.f.	24 s.f.
Planting strip width or Dimension in any direction	12 ft.	6 ft.	9 ft.	5 ft.	6 ft.	5 ft.
Tree distance from any impervious surface	5 ft.	3 ft.	4 ft.	2.5 ft.	3 ft.	2.5 ft.

(2) In constrained areas:

- a. Reduction of the Pervious Surface Minimum Criteria Standards shall be permitted to the amounts shown with alternative planting systems, including but not limited to root barriers and pervious pavement. No further reduction below these amounts shall be permitted.
- b. The required root zone volumes shall not be reduced and shall consist of root zone media. However, portions of the root zone volume may be located beneath proposed adjacent pavement using alternative planting systems, including but not limited to structural soil, root paths, soil trenches, root barriers, and reinforced concrete. See Figure 407.45.1.

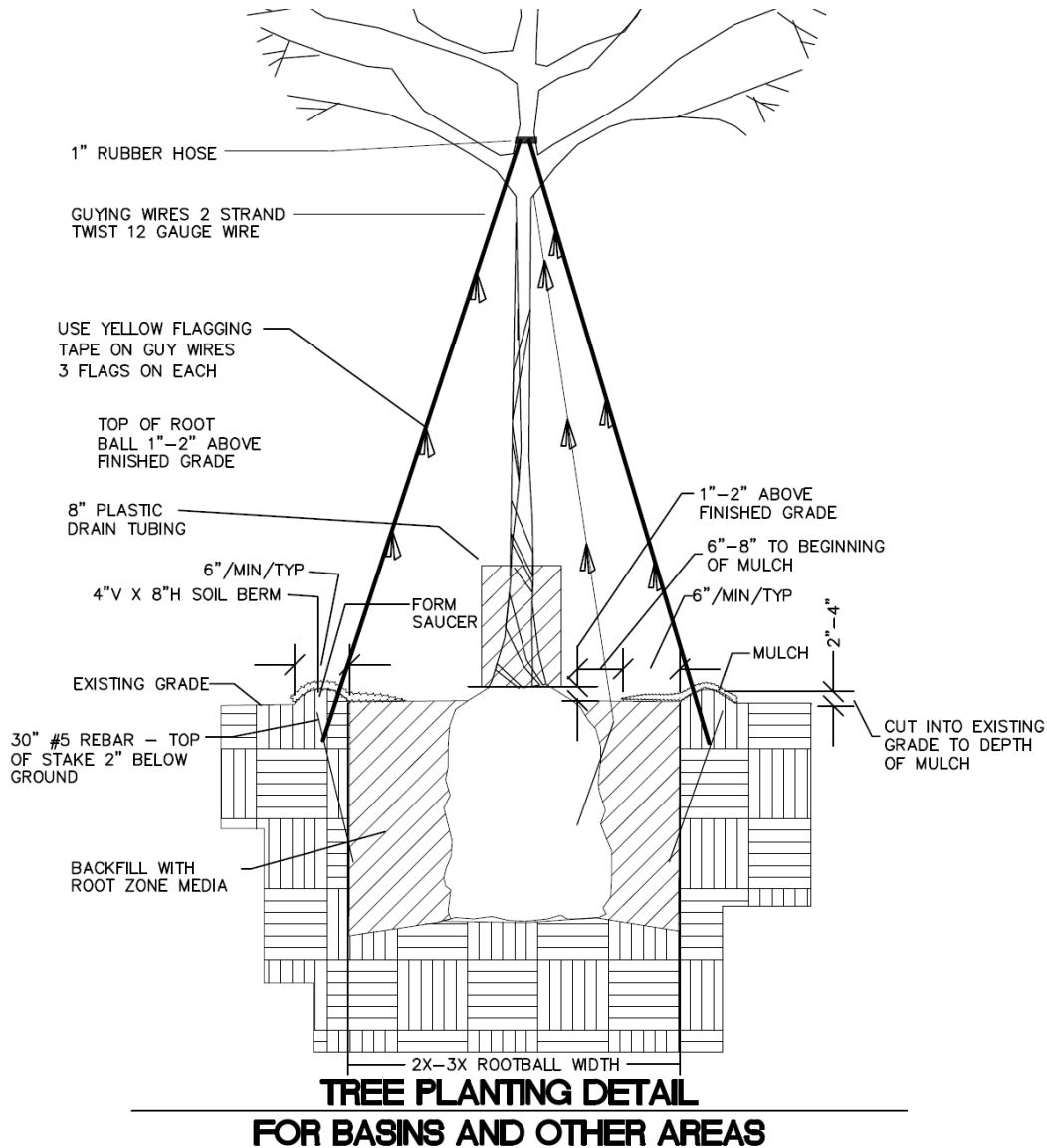
(3) Matted or circling roots shall be removed from all trees prior to planting.

(4) The planting hole for trees installed in areas with root zone volumes not listed in Table 407.45.1 and greater than twelve (12) feet from any impervious area shall be two (2)

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

**PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING**

Figure 407.45.2 [PLACEHOLDER ONLY – TO BE EDITED]



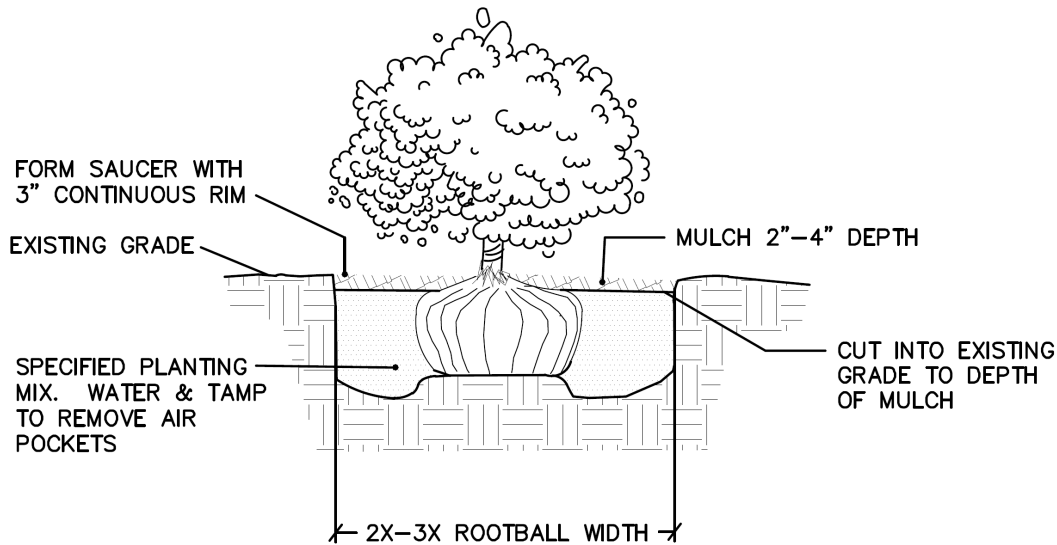
(b) *Shrubs and groundcovers.*

- (1) Shrubs and groundcovers shall be grouped in masses by species, with exceptions for large specimen plants.

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

Figure 407.45.3 [PLACEHOLDER ONLY – TO BE EDITED]



SHRUB/GROUNDCOVER PLANTING DETAIL

(c) *Mulch.*

- (1) Planting areas containing trees and shrubs shall be mulched to a minimum depth of two (2) inches and a maximum depth of four (4) inches.
- (2) Trees shall be mulched to a minimum radius of three (3) feet from the trunk. Mulch shall not be placed within a radius of six (6) to eight (8) inches from the trunk.
- (3) All landscaped areas not covered with vegetation shall be covered with mulch.
- (4) All mulch shall be organic material, with hardwood, pine bark, or pine straw recommended. Cypress shall not be used as mulch.
- (5) Mulch shall be placed directly on soil or landscape fabric and be properly edged to retain mulch. No plastic or other non-biodegradable weed cloth or surface covers shall be used in any landscaped areas.

Sec. 407.46. Establishment irrigation and soil amendments.

(a) *Establishment irrigation plans.*

- (1) A temporary irrigation system is required for all required landscaping to ensure successful establishment. Temporary irrigation systems must be removed once the plants are established or within one year, whichever occurs first. A Temporary

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

Irrigation Guidance Document is maintained by the Environmental Protection Department.

- (2) Irrigation plans for landscaped areas greater than two thousand (2,000) square feet, excluding single family lots, shall be designed by a landscape architect, a Florida Water Star Accredited Professional, or a Florida Irrigation Specialty Contractor. The irrigation system shall be installed according to the manufacturer's specifications and in compliance with Article VI, Landscape Irrigation and Maintenance Standards of the Alachua County Code.
 - (3) All irrigation systems must have an automatic rainfall shutoff device.
 - (4) Where available, reclaimed water shall be used for landscape irrigation. Use of harvested rainwater or stormwater reuse for irrigation is encouraged. Landscape irrigation wells are discouraged and must be properly abandoned once the plants are established and the temporary irrigation system is removed.
 - (5) All irrigation systems shall be designed to promote water conservation by employing methods such as individual low-flow or micro-irrigation supplies for newly planted trees and landscape beds. Once trees and other plant materials are established the use of the irrigation system shall be discontinued. Permanent irrigation systems must be equipped with flow-based leak detection technology.
 - (6) Prior to the installation of any irrigation systems within a public right-of-way, a right-of-way use permit shall be obtained from the Alachua County Public Works Department. Such system installation shall meet the construction and inspection standards of the Public Works Department.
- (b) *Soil Amendments.* Soil augmentation is encouraged for all newly landscaped areas, including single family lots. The following standards are recommended:
- (1) Soil amendments should be incorporated to a depth of at least 6 inches at a rate of four cubic yards of amended soil per 1,000 square feet.
 - (2) Soil amendments should use compost certified by the U.S. Composting Council.

Sec. 407.47. Maintenance.

- (a) The property owner or association shall be responsible for the maintenance of all landscape areas in accordance with the approved landscape or planting plans.
- (b) Upon determination by the County, or County-designated qualified specialist, that a required tree or plant is dead or severely damaged or diseased, the tree or plant shall be replaced by the property owner or association with the same or equivalent plant material as approved by the County, in accordance with the standards specified in this Article.
- (c) All landscaped areas required as part of a development plan, including buffers, whether in common or private ownership, shall be the responsibility of that development's property

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

owners' association. Where there is no property owners' association, such landscaped areas shall be the responsibility of the property owner.

(d) Pruning.

- (1) All trees may be pruned to maintain shape, promote their shade-giving qualities, and remove diseased or dying portions in areas where falling limbs could be a hazard to people or property.
- (2) Lower limbs may be removed to provide clearance for pedestrians. Trees located in association with vehicular use areas shall be pruned after they have adapted to the site to allow a seven-foot clearance from ground level to avoid potential for damage or injury to both pedestrians and vehicles. Mature trees overgrowing driveways should be pruned to allow the passage of emergency vehicles.
- (3) Excessive pruning, pollarding into round balls of crown or branches, or reduction of shade to grow turfgrasses or sun loving plants shall be prohibited, and may require supplemental plantings. All pruning shall be done following the American National Standard for Tree Care Operations "Tree, Shrub and Other Woody Plant Management - Standard Practices (Pruning)."

Sec. 407.48. Alternative compliance.

The provisions of this Article shall be liberally construed to effectively carry out the purpose and the intent of the Alachua County Comprehensive Plan and of this Article in the interest of the health, safety, and welfare of the residents of the County.

- (a) An applicant may submit a landscape or planting plan which varies from the strict application of the requirements of this Article in order to accommodate unique site features or characteristics or to utilize innovative design.
- (b) An alternative compliance landscape or planting plan may be approved only upon a finding that it fulfills the purpose and intent of the Alachua County Comprehensive Plan and of this Article as well as or more effectively than would adherence to the strict requirements.
- (c) In evaluating proposed alternative compliance landscape or planting plans, considerations shall be given to proposals which preserve native vegetation and use resilient and other low water use landscape design principles and where the design ensures the maximum preservation of existing vegetation on the site.

Sec. 407.49. Certificate of compliance.

(a) *Nonresidential Developments.*

1. No final Certificate of Occupancy shall be issued until the County has granted final approval and acceptance of the installed landscape as well as the protection of

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

existing native vegetation. Final approval shall include as-built landscape plan certification from a registered landscape architect certifying that:

- a. the landscaping is installed and functioning as intended,
 - b. prohibited and discouraged non-native vegetation listed in Table 406.16.2 has been removed,
 - c. all of the provisions of this Chapter have been met, and
 - d. the temporary irrigation system has been registered with the County or a permanent system has received proper approval, is maintained free of leaks and in compliance with Article VI, Landscape Irrigation and Maintenance Standards of the Alachua County Code.
2. The landowner shall submit a Certificate of Compliance, in a form acceptable to the County, as a condition of issuance of a Certificate of Occupancy. For blocks within TODs/TND's, a phasing of landscaping installation may be approved as an element of the final development plan, or administratively after DRC approval, in order to allow the issuance of a Certificate of Occupancy for each building separately.

(b) *Residential and Mixed Use Developments.*

1. No Certificate of Completion of the Construction Permit shall be issued until the County has granted final approval and acceptance of the installed landscape as well as the protection of existing native vegetation. Final approval shall include inspection and approval by the County Forester and Landscaping Inspector that:
 - a. the landscaping is installed and functioning as intended,
 - b. prohibited and discouraged non-native vegetation listed in Table 406.16.2 has been removed,
 - c. that all of the provisions of this Chapter have been met, and
 - d. the temporary irrigation system has been registered with the County or a permanent system has received proper approval, is maintained free of leaks and in compliance with Article VI, Landscape Irrigation and Maintenance Standards of the Alachua County Code.
2. No Final Acceptance of public infrastructure shall be granted until the County has granted final approval and acceptance of the installed landscape as well as the protection of existing native vegetation. Final approval shall include as-built landscape plan certification from a registered landscape architect certifying that:
 - a. the landscaping is installed and functioning as intended,
 - b. the temporary irrigation system has been properly removed if after the one year establishment period,

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

- c. prohibited and discouraged non-native vegetation listed in Table 406.16.2 has been removed, and
 - d. all of the provisions of this Chapter have been met. The landowner shall submit a certificate of compliance, in a form acceptable to the County, as a condition of issuance of a certificate of occupancy.
- (c) A temporary certificate of occupancy may be issued in those instances where all other site improvements except landscape have been completed, and when weather conditions are not conducive to planting. Such temporary issuance is subject to the developer certifying in writing and posting of an appropriate surety in the amount of one hundred ten (110) percent of the certified estimated cost of completion that the required landscaping, as depicted on the approved plan, will be installed within a time period acceptable to the County.
- (d) Failure to install or maintain landscaping according to the terms of this Article or any approved plan shall constitute a violation of this Article and subject to the remedies and penalties set forth in Chapter 409 of this ULDC.

DRAFT

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
 TITLE 40 - LAND DEVELOPMENT REGULATIONS
 CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
 ARTICLE IV. LANDSCAPING

Sec. 407.50. Appropriate plantings.

(a) The list of trees identified in Table 407.50.1 below includes all those appropriate to Alachua County that shall be used to meet the requirements of this Article.

Table 407.50.1 Appropriate Tree Plantings						
Native Scientific Name	Common Name	Canopy or Understory	Estimated 20-year Canopy Diameter (feet)	Appropriate Planting Location or Use	Tree Size	Estimated Maximum Height (feet)
<i>Acer negundo</i>	Boxelder maple	C U	30	B O	Large	50
<i>Acer rubrum</i>	Red maple	C U	25	S P B O	Large	80
<i>Acer saccharinum</i>	Silver maple	C U	25	B O	Large	60
<i>Acer saccharum</i> subsp. <i>floridanum</i>	Florida maple	C U	25	S P B O	Large	60
<i>Aesculus pavia</i>	Red buckeye	U	10	B O	Small	40
<i>Aralia spinosa</i>	Devil's-walkingstick	U	10	B O	Small	30
<i>Betula nigra</i>	River birch	C U	25	S B O	Large	60
<i>Carpinus caroliniana</i>	American hornbeam	U	25	S B O	Large	40
<i>Carya aquatica</i>	Water hickory	C	30	B O	Large	100
<i>Carya cordiformis</i>	Bitternut hickory	C	30	B O	Large	100
<i>Carya floridana</i>	Scrub hickory	C	30	B O	Large	50
<i>Carya glabra</i>	Pignut hickory	C	30	B O	Large	100
<i>Carya tomentosa</i>	Mockernut hickory	C	30	B O	Large	100
<i>Castanea dentata</i> cultivars	Chestnut	C	30	B O E	Large	40
<i>Castanea pumila</i>	Florida chinquapin	C	30	B O	Large	50
<i>Catalpa bignonioides</i>	Southern catalpa	C U	20	B O	Small	60
<i>Celtis laevigata</i>	Sugarberry	C	35	B O	Large	100
<i>Cercis canadensis</i>	Redbud	U	25	S T P B O	Large	30
<i>Chamaecyparis thyoides</i>	Atlantic white cedar	C U	20	B O	Small	80
<i>Chionanthus virginicus</i>	White fringe tree	U	15	S T P B O	Small	30
<i>Cornus florida</i>	Flowering dogwood	U	25	S B O	Large	40
<i>Crataegus michauxii</i>	Michaux's hawthorn	U	15	S B O	Small	25

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

Table 407.50.1						
Appropriate Tree Plantings						
Native Scientific Name	Common Name	Canopy or Understory	Estimated 20-year Canopy Diameter (feet)	Appropriate Planting Location or Use	Tree Size	Estimated Maximum Height (feet)
<i>Diospyros virginiana</i>	Common Persimmon	C U	25	S T P B O	Large	100
<i>Fagus grandifolia</i>	American beech	C U	40	B O	Large	100
<i>Fraxinus americana</i>	White ash	C	40	S P B O	Large	75
<i>Fraxinus caroliniana</i>	Carolina pop ash	C	25	S P B O	Large	60
<i>Fraxinus pennsylvanica</i>	Green ash	C	30	S B O	Large	90
<i>Fraxinus profunda</i>	Pumpkin ash	C	30	B O	Large	100
<i>Gleditsia aquatica</i>	Water locust	C U	25	B O	Large	50
<i>Gleditsia triacanthos</i>	Honey locust	C U	25	B O	Large	70
<i>Gordonia lasianthus</i>	Loblolly bay	C U	20	S B O	Small	90
<i>Ilex cassine</i>	Dahoon Holly	C U	20	B O	Small	50
<i>Ilex opaca</i>	American holly	C U	25	S T P B O	Large	50
<i>Ilex x attenuata</i> 'East Palatka'	East Palatka holly	C U	20	S T P B O	Small	50
<i>Ilex x attenuata</i> 'Savannah'	Savannah holly	C U	20	S T P B O	Small	50
<i>Juglans nigra</i>	Black walnut	C	25	B O	Large	60
<i>Juniperus virginiana</i>	Southern red cedar	C U	25	S P B O	Large	60
<i>Liquidambar styraciflua</i>	Sweetgum	C	30	B O	Large	100
<i>Liriodendron tulipifera</i>	Tulip tree	C	25	S P B O	Large	100
<i>Magnolia grandiflora</i>	Southern magnolia	C U	30	S P B O	Large	80
<i>Magnolia grandiflora</i> 'Little Gem'	Little gem magnolia	U	10	B O	Small	30
<i>Magnolia grandiflora</i> 'Alta'	Alta magnolia	U	10	B O	Small	40
<i>Magnolia macrophylla</i>	Bigleaf magnolia, Ashe magnolia	U	15	B O	Small	20
<i>Magnolia virginiana</i>	Sweetbay magnolia	C U	20	S P B O	Small	80
<i>Malus angustifolia</i>	Crabapple	U	15	B O E	Small	25
<i>Morus rubra</i>	Red mulberry	U	30	B O E	Large	50
<i>Myrica cerifera</i>	Waxmyrtle	U	10	B O	Small	30
<i>Nyssa aquatica</i>	Water tupelo	C	25	S B O	Large	100

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

Table 407.50.1 Appropriate Tree Plantings						
Native Scientific Name	Common Name	Canopy or Understory	Estimated 20-year Canopy Diameter (feet)	Appropriate Planting Location or Use	Tree Size	Estimated Maximum Height (feet)
<i>Nyssa ogeche</i>	Ogeechee tupelo,	C	25	S B O	Large	80
<i>Nyssa sylvatica</i> var. <i>biflora</i> or <i>sylvatica</i>	Swamp tupelo, Blackgum	C	25	S B O	Large	100
<i>Osmanthus americanus</i>	Wild olive, Devilwood	U	20	S B O	Small	40
<i>Ostrya virginiana</i>	Ironwood, Hop hornbeam	C U	25	S T P B O	Large	40
<i>Persea borbonia</i> var. <i>borbonia</i> or <i>humilis</i>	Red bay or Silk bay	C U	25	B O	Large	60
<i>Pinus clausa</i>	Sand pine	C	25	B O	Large	90
<i>Pinus echinata</i>	Shortleaf pine	C	25	B O	Large	100
<i>Pinus elliotii</i>	Slash pine	C	25	S B O	Large	110
<i>Pinus glabra</i>	Spruce pine	C	25	S B O	Large	90
<i>Pinus palustris</i>	Longleaf pine	C	25	S B O	Large	90
<i>Pinus serotina</i>	Pond pine	C	25	B O	Large	100
<i>Pinus taeda</i>	Loblolly pine	C	25	B O	Large	110
<i>Planera aquatica</i>	Water elm, Planer tree	C U	30	B O	Large	40
<i>Platanus occidentalis</i>	Sycamore	C	40	S P B O	Large	90
<i>Populus deltoides</i>	Eastern Cottonwood	C	30	B O	Large	70
<i>Prunus americana</i>	American plum	U	20	S T P B O	Small	30
<i>Prunus angustifolia/umbellata</i>	Chickasaw, Flatwoods, Hog plum	U	15	S P B O E	Small	20
<i>Prunus caroliniana</i>	Cherry-laurel	U	20	S T P B O	Small	40
<i>Prunus serotina</i> var. <i>serotina</i>	Black cherry	C	30	S P B O	Large	80
<i>Ptelea trifoliata</i>	Wafer ash, Hop-tree	U	10	B O	Small	20
<i>Quercus alba</i>	White oak	C	25	S P B O	Large	90
<i>Quercus chapmanii</i>	Chapman's oak	C	20	S P B O	Small	40
<i>Quercus falcata</i>	Spanish oak, Southern red oak	C	30	S P B O	Large	100
<i>Quercus geminata</i>	Sand live oak	C	30	S P B O	Large	60

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

Table 407.50.1 Appropriate Tree Plantings						
Native Scientific Name	Common Name	Canopy or Understory	Estimated 20-year Canopy Diameter (feet)	Appropriate Planting Location or Use	Tree Size	Estimated Maximum Height (feet)
<i>Quercus incana</i>	Bluejack oak	C	25	S P B O	Large	50
<i>Quercus laevis</i>	Turkey oak	C	25	S P B O	Large	60
<i>Quercus lyrata</i>	Overcup oak	C	25	S B O	Large	80
<i>Quercus margarettae</i>	Sand post oak	C	30	S P B O	Large	70
<i>Quercus marilandica</i>	Blackjack oak	C	25	S B O	Large	50
<i>Quercus michauxii</i>	Basket oak, Swamp chestnut oak	C	25	S B O	Large	100
<i>Quercus muehlenbergii</i>	Chinquapin oak	C	20	S B O	Small	50
<i>Quercus myrtifolia</i>	Myrtle oak	U	15	B O	Small	30
<i>Quercus pagoda</i>	Cherrybark oak	C	30	S P B O	Large	80
<i>Quercus phellos</i>	Willow oak	C	20	S P B O	Small	60
<i>Quercus shumardii</i>	Shumard oak	C	30	S P B O	Large	100
<i>Quercus sinuata</i>	Bluff oak	C	30	S P B O	Large	90
<i>Quercus stellata</i>	Oak, post	C	25	S P B O	Large	80
<i>Quercus virginiana</i>	Oak, live	C	45	S P B O	Live Oak	80
<i>Rhamnus caroliniana</i>	Buckthorn, Carolina	U	10	B O	Small	20
<i>Sabal palmetto</i>	Palm, cabbage	C U	15	S T	Small	60
<i>Salix caroliniana</i>	Carolina willow	U	15	B O	Small	40
<i>Salix floridana</i>	Florida willow	U	15	B O	Small	20
<i>Salix nigra</i>	Black willow	U	15	B O	Small	60
<i>Sapindus saponaria</i>	Soapberry	C U	25	S P B O	Large	50
<i>Sassafras albidum</i>	Sassafras	U	15	B O	Small	40
<i>Sideroxylon tenax</i>	Tough bully	U	10	B O	Small	30
<i>Taxodium ascendens</i>	Pond cypress	C	20	S P B O	Small	90
<i>Taxodium distichum</i>	Bald cypress	C	20	S P B O	Small	100
<i>Tilia americana var. caroliniana</i>	Carolina basswood	C	25	B O	Large	80
<i>Ulmus alata</i>	Winged elm	C	35	S T P B O	Large	100
<i>Ulmus americana</i>	Florida elm	C	35	S T P B O	Large	100
<i>Ulmus crassifolia</i>	Cedar elm	C	30	S T P B O	Large	100
<i>Ulmus rubra</i>	Slippery elm	C	20	S P B O	Small	60

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

Table 407.50.1 Appropriate Tree Plantings						
Native Scientific Name	Common Name	Canopy or Understory	Estimated 20-year Canopy Diameter (feet)	Appropriate Planting Location or Use	Tree Size	Estimated Maximum Height (feet)
<i>Vaccinium arboreum</i>	Sparkleberry, Farkleberry	U	15	S T P B O E	Small	20
<i>Viburnum obovatum</i>	Walter viburnum	U	15	B O	Small	30
<i>Viburnum rufidulum</i>	Rusty blackhaw	U	15	B O	Small	20
<i>Zanthoxylum clavaherculis</i>	Hercules club	U	25	B O	Large	50

Non-Native Scientific Name	Common Name	Canopy or Understory	Estimated 20-year Canopy Diameter (feet)	Appropriate Planting Location or Use	Tree Size	Maximum Height (feet)
<i>Butia capitata</i>	Pindo palm	C U	15	S T	Small	20
<i>Callistemon rigidus</i>	Stiff bottlebrush	U	15	S T O	Small	60
<i>Carya illinoensis</i>	Pecan	C	35	S O E	Large	100
<i>Cedrus deodara</i>	Deodar cedar	C U	20	S P O	Small	40
<i>Chionanthus retusus</i>	Fringe tree, Chinese	U	15	S O	Small	30
<i>Citrus</i> spp.	Citrus	U	10	O E	Small	20
<i>Cryptomeria japonica</i>	Japanese cedar	C U	15	S O	Small	60
<i>Cunninghamia lanceolata</i>	China fir	C U	15	S O	Small	60
<i>Fortunella margarita</i> cultivars	Kumquat	U	6	O E	Small	10
<i>Ilex rotunda</i>	Round holly	C U	15	S T P O	Small	30
<i>Lagerstroemia indica</i> (large varieties)	Crape myrtle	U	15	S T O	Small	40
<i>Liquidambar formosana</i>	Formosa sweet gum	C	20	S P O	Small	50
<i>Magnolia x soulangiana</i>	Saucer magnolia	U	15	S O	Small	30
<i>Metasequoia glyptostroboides</i>	Dawn redwood	C	15	S P O	Small	70
<i>Morus</i> spp.	Mulberry	U	20	O E	Small	35

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
 TITLE 40 - LAND DEVELOPMENT REGULATIONS
 CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
 ARTICLE IV. LANDSCAPING

Non-Native Scientific Name	Common Name	Canopy or Understory	Estimated 20-year Canopy Diameter (feet)	Appropriate Planting Location or Use	Tree Size	Maximum Height (feet)
<i>Phoenix spp.</i>	Date palm	C	25	ST	Large	60
<i>Pistacia chinensis</i>	Chinese pistachio	C	25	SPO	Large	60
<i>Platycladus orientalis</i>	Oriental arborvitae	U	10	SO	Small	50
<i>Podocarpus macrophylla</i>	Japanese yew	CU	15	STPO	Small	40
<i>Podocarpus nagi</i>	Nagi podocarpus	CU	20	STPO	Small	50
<i>Prunus campanulata</i>	Flowering cherry	U	15	STO	Small	20
<i>Prunus nucipersica</i> cultivars	Nectarine	U	15	OE	Small	15
<i>Prunus persica</i> cultivars	Peach	U	15	OE	Small	15
<i>Punica granatum</i> cultivars	Pomegranate	U	10	OE	Small	10
<i>Pyrus communis</i> cultivars	Pear	U	15	OE	Small	25
<i>Quercus acutissima</i>	Sawtooth oak	C	25	SPO	Large	60
<i>Robinia pseudoacacia</i>	Locust, black	C	20	O	Small	40
<i>Salix babylonica</i>	Weeping willow	CU	30	SPO	Large	40
<i>Ulmus parvifolia</i>	Chinese elm, Drake elm	CU	35	STPO	Large	40
<i>Ulmus pumila</i>	Siberian elm	CU	15	STO	Small	30
<i>Washingtonia robusta</i>	Washington palm	C	15	ST	Small	80

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
 TITLE 40 - LAND DEVELOPMENT REGULATIONS
 CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
 ARTICLE IV. LANDSCAPING

LEGEND:

Canopy or Understory	
C	Canopy tree provides larger amount of shading high above ground
U	Understory tree provides lower amount of shading near the ground
Appropriate Planting Location	
S	Street Tree
T	Tree Well
P	Paved Vehicular Use Area
B	Basin Area
O	Other Areas including Common Areas and Buffers
E	Edible

(b) The list of groundcovers identified in Table 407.50.2 below includes all of those appropriate to Alachua County that shall be used to meet the requirements of this Article.

Table 407.50.2 Appropriate Groundcover Plantings			
Native Scientific Name	Common Name	Maximum Height (feet)	Additional Information
<i>Chrysopsis mariana</i>	Maryland Goldenaster	2	
<i>Conradina canescens</i>	False Rosemary	3	Edible
<i>Eragrostis elliottii</i>	Elliot's Lovegrass	2	
<i>Eragrostis spectabilis</i>	Purple Lovegrass	2	
<i>Euploca polyphylla</i> (formerly <i>Heliotropium polyphyllum</i>)	Pineland Heliotrope	1	
<i>Glandularia maritima</i>	Beach Verbena	1	
<i>Helianthus debilis</i>	Beach Sunflower	2.5	
<i>Hymenocallis</i> spp. and hybrid cultivars	Spider Lily	2	

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
 TITLE 40 - LAND DEVELOPMENT REGULATIONS
 CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
 ARTICLE IV. LANDSCAPING

Table 407.50.2 Appropriate Groundcover Plantings			
Native Scientific Name	Common Name	Maximum Height (feet)	Additional Information
<i>Ilex vomitoria 'Dwarf'</i>	Dwarf Yaupon holly	5	Edible
<i>Ipomoea pes-caprae</i>	Railroad Vine, beach morning-glory	0.5	
<i>Iris virginica</i>	Southern blue flag iris	2.5	
<i>Lantana depressa</i>	Pineland Lantana	2	
<i>Lantana involucrata</i>	Wild Lantana, Wild Sage	6	
<i>Michelia repens</i>	Partridge berry	0.5	
<i>Mimosa strigillosa</i>	Powderpuff, Sunshine Mimosa	0.5	
<i>Muhlenbergia capillaris</i>	Muhly grass	5	
<i>Phyla nodiflora</i>	Frogfruit, Matchstick Weed	0.5	
<i>Pityopsis graminifolia</i>	Silkgrass	3	
<i>Psychotria nervosa dwarf cultivars</i>	dwarf wild coffee	3	
<i>Rudbeckia hirta</i>	Black-Eyed Susan	3	
<i>Schizachyrium scoparium</i>	Little Bluestem Grass	3	
<i>Sedum</i> spp. (11+ species for zone 9)	Stonecrop, Creeping Sedums	0.5 – 3	
<i>Sisyrinchium angustifolium</i>	Blue Eyed Grass	1	
<i>Tradescantia ohiensis</i>	Spiderwort	3	
<i>Tripsacum dactyloides</i>	Fakahatchee grass, Eastern gamagrass	6	
<i>Tripsacum floridanum</i>	Dwarf Fakahatchee grass	3	
<i>Viburnum obovatum dwarf cultivars</i>	Dwarf viburnum	3	
<i>Zamia integrifolia</i> (formerly <i>Zamia floridana</i>)	Coontie, Florida Arrowroot	4	

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
TITLE 40 - LAND DEVELOPMENT REGULATIONS
CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
ARTICLE IV. LANDSCAPING

Non-Native Scientific Name	Common Name	Maximum Height (feet)	Additional Information
<i>Agapanthus africanus</i>	Lily Of the Nile	4	
<i>Aloe barbadensis</i> (size considerations)	Aloe	2	Edible
<i>Aloe maculata</i> (size considerations)	Soap Aloe	2	
<i>Arachis glabrata</i>	Perennial Peanut	1.5	
<i>Aspidistra elatior</i>	Cast Iron Plant	2	
<i>Bulbine frutescens</i>	Bulbine	2	
<i>Cephalotaxus harringtonia cultivars</i>	Japanese plum yew	2 – 5	
<i>Cyrtomium falcatum</i>	Holly fern	3	
<i>Dianella tasmanica</i>	Flax Lily	2	
<i>Dryopedryos erythrosora</i>	Autumn fern	2	
<i>Dyckia spp. and cultivars</i>	Dyckia, Miniature Agave	0.5 – 2	
<i>Echevaria spp.</i>	Echeveria	0.5 – 2	
<i>Gaillardia spp. and hybrid cultivars</i>	Blanket Flower	2	
<i>Hippeastrum spp. and hybrid cultivars</i>	Amaryllis	1 – 2	
<i>Iris domestica</i>	Blackberry Lilly	3	
<i>Juniperus conferta</i>	Shore Juniper	2	
<i>Juniperus horizontalis</i>	Horizontal/Creeping Juniper	1.5	
<i>Lomandra longifolia</i>	Matt Rush And Cultivars	4	
<i>Ophiopogon japonicus and cultivars</i>	Mondo Grass	0.5 – 1	Not suitable for planting next to natural areas
<i>Podocarpus lawrencei</i>	Mountain plum-pine	5	
<i>Portulaca grandiflora</i>	Purslane, Moss Rose	0.5	Edible
<i>Rosmarinus officinalis x 'Prostratus'</i>	Creeping Rosemary	2	Edible
<i>Salvia rosmarinus</i> (formerly <i>Rosmarinus officinalis</i>)	Rosemary	4	Edible

PROPOSED AMENDED LANDSCAPING CODE TO REPLACE EXISTING CODE

PART III - UNIFIED LAND DEVELOPMENT CODE
 TITLE 40 - LAND DEVELOPMENT REGULATIONS
 CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS
 ARTICLE IV. LANDSCAPING

Non-Native Scientific Name	Common Name	Maximum Height (feet)	Additional Information
<i>Scadoxus multiflorus</i> (formerly <i>Haemanthus multiflorus</i>)	Blood Lily	1	
<i>Trachelospermum asiaticum</i>	Asiatic Jasmine, Normal and Variegated Form	1.5	Not suitable for planting next to natural areas
<i>Trachelospermum jasminoides</i>	Confederate Jasmine, Star Jasmine, Normal and Variegated Form	depends on supporting structure	Not suitable for planting next to natural areas
<i>Tulbaghia violacea</i>	Society Garlic	1 Flower spikes: 2	Edible

DRAFT