

Subpart B - LAND DEVELOPMENT REGULATIONS
Chapter 110 - RESOURCE PROTECTION
ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

DIVISION 1. GENERALLY

[Sec. 110-251. Purpose and intent.](#)

[Sec. 110-252. Definitions.](#)

[Sec. 110-253. Specially protected trees.](#)

[Sec. 110-254. Unprotected trees.](#)

[Sec. 110-255. Removal of portions of coconut palm trees; permit required for sale.](#)

[Sec. 110-256. Tree abuse.](#)

[Sec. 110-257. Ficus trees.](#)

[Sec. 110-258. Emergencies.](#)

[Sec. 110-259. Duty of private property owner.](#)

[Sec. 110-260. Champion trees.](#)

[Secs. 110-261—110-285. Reserved.](#)

Sec. 110-251. Purpose and intent.

- (a) The city commission finds that trees on privately and publicly owned property within the city are economic and aesthetic assets to the citizens of the city, because of their important and meaningful contribution to a healthy, beautiful, and safer community, attributable to their carbon dioxide absorption, oxygen production, dust filtration, wind and noise reduction, soil erosion prevention and surface drainage improvement. Therefore, the health and economic welfare of the citizens can be served through protection of the health and growth of the trees and through encouragement of additional tree plantings. The city commission further finds that this public purpose can best be achieved through a city agency having authority and responsibility to accomplish these goals.
- (b) (add a vision statement-right tree, right place, goal is to maintain the canopy of the City while protecting people and property?)

Sec. 110-252. Definitions.

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

ANSI means the American National Standards Institute which has published standards for tree, shrub and woody plant care and maintenance.

Caliper means a trunk measurement for diameter measured 6 inches from the ground for trees up to 4 inches caliper and 12 inches from ground for larger trees.

Canopy means the leaves, branches, and stems of a tree above the ground or water, accounting for the ecology with the exception of confirmed dead branches by the Urban Forrester.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

Champion tree means a tree determined by the tree commission to be of unique and intrinsic value to the general public due to its size, age, historic association or ecological value; or any tree designated as a Florida State Champion, United States Champion or World Champion by the American Forestry Association.

Coconut palm means an individual plant, of whatever size or dimensions, of the species *Cocos nucifera*.

→ *Critical Root Zone*
Diameter means the width of a tree.

Diameter at standard height and *DSH* mean the diameter of a tree's main trunk measured four and one-half (4½) feet above the ground surface. When a tree grows with multiple trunks, DSH shall be equal to the sum or aggregate of the individual stem diameters measured at four and one-half (4½) feet above grade.

Dicot means a dicotyledonous angiospermous plant, having two cotyledon or seed leaves and usually net venation, as in many long-lived trees and higher plants.

Dripline means the natural 360-degree outside end of the branches of a tree or shrub projected vertically to the ground.

Florida #1 means a certain standard for structurally sound trees and shrubs, developed by the International Society of Arboriculture, Florida Chapter.

Harm means actions which reduce the overall health of a tree, but not including minor maintenance.

Hatracking means pollarding or flat-cutting a tree such that the leaders are severed, or such that the total canopy spread is reduced by one-third or more during any three hundred sixty-five (365)-day period (except for fruit trees such as mango and avocado trees).

Heritage tree means a non-native tree whose species is historically significant to Key West. Heritage trees include, but are not limited to, Sapodilla, Royal Poinciana, and Spanish Lime.

Horizontal plane means a plane or line parallel to the horizon or ground.

Hurricane cut means major trimming of live palm fronds above the horizontal plane.

Major maintenance means actions reducing the length of a tree or the breadth of its crown spread by one-third or more during any three hundred sixty-five (365)-day period and conforming to the American National Safety Standards A-300 (1995).

Minor maintenance means pruning or diminishing a tree without reducing its length or crown spread by one-third or more during any three hundred sixty-five (365)-day period, and without reducing its overall health.

Monocot means a monocotyledonous angiospermous plant, having a single cotyledon or seed leaf, and usually having parallel venation as in grasses and palms.

Palm means any of a family (Palmae synonym Arecaceae) of mostly tropical or subtropical monocotyledonous trees, shrubs, or vines with usually a simple stem and a terminal crown of large pinnate or fan-shaped leaves. A palm is considered regulated or protected if it is 3 ft tall measured from ground to top of frond.

Removal means a change in location of a tree, including transplanting; or a temporary change of location and return to the same location; or damage to a tree above or below ground, to the extent sufficient to kill the tree or cause a potential hazardous condition.

Shade tree means a self-supporting woody plant or species normally growing to a natural height of at least fifteen (15) feet and a mature spread of at least fifteen (15) feet. Clusters of more than one tree may

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

be used as a shade tree, when it is demonstrated to the tree commission that the cluster will, at maturity, pass the fifteen (15)-foot-spread requirement.

Terminal bud means the primary bud on the principal leader of a tree.

Tree means a woody or fibrous perennial plant, which normally grows to a minimum overall height of fifteen (15) feet and an average mature crown spread greater than fifteen (15) feet. A tree is considered protected if it is 6 ft tall and a minimum 1" diameter.

Urban Forestry Manager is the city employee responsible for administering the requirements of the city tree protection ordinance for the Tree Commission.

Sec. 110-253. Specially protected trees.

The following species of trees are afforded special protection by this article. Trees can be added to this section upon successful passage of a Resolution of the City Commission for the City of Key West:

Common Name	Scientific Name
Autograph tree	Calusia rosea
Avocado tree	Persea americana
Bay cedar	Suriana maritima
Blackbead	Pithecellobium guadalupense/keyense
Black calabash	Amphitecna latifolia
Black ironwood	Krugiodendron ferreum
Black mangrove	Avicennia germinans
Blolly	Guapira discolor
Brittle/Key thatch palm	Thrinax morrisii
Buttonwood	Conocarpus erectus
Cabbage palm	Sabal palmetto
Calabash tree	Crescentia cujete

Subpart B - LAND DEVELOPMENT REGULATIONS
Chapter 110 - RESOURCE PROTECTION
ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

Cats claw	Pithecellobium unguis-cati
Cherry/buccaneer palm	Pseudophoenix sargentii
Cinnamon bark/Wild cinnamon	Canella winterana
Cinnecord	Acacia choriophylla
Coconut palm	Cocos nucifera
Coral bean	Erythrina herbacea
Crabwood	Ateramnus lucidus
Cupania	Cupania glabra
Darling plum	Reynosa septentrionalis
Dahoon holly	Ilex cassine
False boxwood	Gyminda latifoli
Fiddlewood	Citharexylum fruticosum
Florida boxwood	Schaefferia frutescens
Florida privet	Forestiera segregata
Florida royal palm	Roystonea elata
Florida thatch palm	Thrinax radiata
Geiger tree	Cordia sebestena
Golden dew drop	Duranta repens

Subpart B - LAND DEVELOPMENT REGULATIONS
Chapter 110 - RESOURCE PROTECTION
ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

Guava	Psidium guajava
Gumbo limbo	Bursea simaruba
Guiana plum	Drypetes lateriflora
Inkwood	Exothea paniculata
Jamaica caper	Capparis cynophallophora
Jamaica dogwood	Piscidia piscipula
Joewood	Jacquinia keyensis
<u>Key Lime</u>	<u>Citrus aurantifolio</u>
Lancewood	Nectandra coriacea
Lignum vitae	Guaiacum sanctum
Limber caper	Capparis flexuosa
Live oak	Quercus virginiana
Locustberry	Byrsonima lucida
Long spine acacia	Acacia macracantha
Mahogany	Swietenia mahagoni
Mango tree	Mangifera indica
Marlberry	Ardisia escallonioides
Mastic	Mastichodendron foetidissimum

Subpart B - LAND DEVELOPMENT REGULATIONS
Chapter 110 - RESOURCE PROTECTION
ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

Milkbark	<i>Drypetes diversifolia</i>
Myrsine	<i>Myrsine floridana</i>
Myrtle-of-the-river	<i>Calypttranthes zuzygium</i>
Paradise tree	<i>Simarouba glauca</i>
Paurotis palm	<i>Acoelorrhaphe wrightii</i>
Pigeon plum	<i>Coccoloba diversifolia</i>
Pine acacia	<i>Acacia pinetorum</i>
Pisonia	<i>Pisonia rotundata</i>
Poisonwood	<i>Metopium toxiferum</i>
Pond apple	<i>Annona glabra</i>
Princewood	<i>Exostema caribaeum</i>
Randia	<i>Randia aculeata</i>
Redberry stopper	<i>Eugenia confusa</i>
Red mangrove	<i>Rhizophora mangle</i>
Red stopper	<i>Eugenia rhombea</i>
Rhacoma	<i>Crossopetalum rhacoma</i>
Rough strongbark	<i>Bourreria radula</i>
Rough velvetseed	<i>Guettarda scabra</i>

Subpart B - LAND DEVELOPMENT REGULATIONS
Chapter 110 - RESOURCE PROTECTION
ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

Royal poinciana	Delonix regia
Saffron plum	Bumelia celastrina
Sapodilla	Manilkara zapota
Satinleaf	Chrysophyllum oliviforme
Sea-grape	Coccoloba uvifera
Seven-year apple	Casasia clusiifolia
Shortleaf fig	Ficus citrifolia
Silver palm	Coccothrinax argentata
<u>Simpson Stopper</u>	<u>Myrciathes fragans/Eugenia simpsonii</u>
Smooth strongbark	Bourreria cassinifolia
Soapberry	Sapindus saponaria
Soldierwood	Colubrina elliptica
South Florida Slash pine	Pinus elliottii var. densa
Spanish lime	Melicoccus bijugatus
Spanish stopper	Eugenia foetida
Spicewood	Calypttranthes pallens
Strangler fig	Ficus aurea
Strongbark	Bourreria ovata

Subpart B - LAND DEVELOPMENT REGULATIONS
Chapter 110 - RESOURCE PROTECTION
ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

Sweet acacia	Acacia farnesiana
Torchwood	Amyris elemifera
Velvetseed	Guettarda elliptica
Wax myrtle	Myrica cerifera
White ironwood	Hypedlate trifoliata
White mangrove	Languncularia racemosa
White stopper	Eugenia axillaris
Wild coffee	Colubrina arborescens
Wild dilly	Manilkara bahamensis
Wild tamarind	Lysiloma latisiliquum
Willow bustic	Bumelia salicifolia
Yellowheart/satinwood	Zanthoxylum flavum

Sec. 110-254. Unprotected trees.

This article shall not be applicable to trees determined by the Urban Forestry Manager to have died of natural causes. The following species of trees may be acted upon without permit from the tree commission (see also section 110-322, regarding Ficus species). Trees can be added to this section upon successful passage of a Resolution of the City Commission for the City of Key West:

Areca palm	Dypsis lutescens
Australian pine	Casuarina equisetifolia
Beefwood/Brazilian oak	Casuarina glauca

Subpart B - LAND DEVELOPMENT REGULATIONS
Chapter 110 - RESOURCE PROTECTION
ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

Benjamin fig/Weeping fig	Ficus benjamina
Black olive*	Bucidia beceras*
Brazilian pepper/Florida holly	Schinus terebinthifolia
Carrotwood	Cupaniopsis anacardioides
<u>Croton, various species</u>	<u>Croton sp.</u>
Cork tree/Seaside mahoe	Thespesia populnea
Fig trees**	Ficus sp.**
Fishtail palm	Caryota sp.
Latherleaf	Colubrina asiatica
Lead tree	Leucaena leucocephala
Mahoe	Hibiscus tiliaceus/Taliparti tiliaceus
Melaleuca/cajeput/punk tree	Melaleuca quinquenervia
<u>Monkeypod</u>	<u>Pithocellibium dulce*</u>
Norfolk Island pine	Araucaria excelfa /heterophylla
Pink shower tree/tabebuia*	Tabebuia heterophylla*
Orchid tree*	Bauhinia sp.*
Queensland umbrella	Schefflera actinophylla
Traveler's palm	Ravenala sp.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

Tropical almond*	Terminalia catappa*
Yellow elder*	Tecoma stans
Woman's tongue*	Albizia lebbbeck*

*	If tree is more than two (2) feet in diameter at standard height (DSH) then permit is required.
**	See also section 110-322

Sec. 110-255. Removal of portions of coconut palm trees; permit required for sale.

- (a) *Prohibited acts.* No person shall cause the removal of one or more fronds, nuts, or fruit of or any portion of the trunk or root system of or otherwise deface or damage any coconut palm located upon city-owned property, city streets, or city rights-of-way. No person shall cause the removal of any frond that is located within 45 degrees of the center of the tree trunk located on private property. Hurricane cuts (above the horizontal plane) are prohibited.
- (b) *Sale or distribution.* Any person who intends to sell or distribute coconut palm tree fronds or coconuts in any form on city streets, sidewalks or other public areas shall apply to the licensing division for a permit in accordance with the rules and regulations contained in sections 6-1 through 6-9 or Article IV Mobile Vendors, of the Key West Code of Ordinances. The permit holder shall display the permit at all times while doing business on city property. The permit holder shall also maintain on a daily basis, on a form provided by the city, a statement of the source of the palm fronds and/or coconuts, and a name and phone number of the private property owner who provided that source. There shall be a limit of five permits given per permit period as defined in section 6-2, and the city manager shall develop a lottery system for applicants. No permit shall be given to an applicant who intends to use or has been found in violation of removing fronds or coconuts from city-owned trees or trees located on city property. The city manager may revoke a permit upon evidence provided at a hearing of a permit holder's violation of this section or any provision of sections 6-1 through 6-9
- (c) *Exceptions.* This section shall not apply to work conducted for a city purpose by contractors or by city employees or to Monroe County, to state and federal agencies performing planting, maintenance, or removal functions with proper authorization.
- (d) *Enforcement; penalty.* An alleged violation of this section shall be referred directly to the code enforcement special master. When the special master cannot secure compliance, the penalties provided by section 1-15 shall apply.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

Sec. 110-256. Tree abuse.

- (a) *Generally.* Tree abuse is prohibited, and abused trees shall not be counted toward fulfilling landscape requirements. The city may require the abused trees to be replaced.
- (b) *Prohibited acts.* A tree shall be considered abused if a person takes an action so that one of the following occurs:
 - (1) Significant damage has been inflicted upon any part of a tree, including the root system, by machinery, storage of materials, soil compaction, excavation, vehicle accidents, chemical application or change to the natural grade.
 - (2) Damage inflicted to or cutting upon a tree which permits infection or pest infestation.
 - (3) Cutting upon any tree which permanently reduces the function of the tree or causes it to go into irreversible decline.
 - (4) Cutting upon a tree which destroys its natural shape.
 - (5) Hatracking as defined in section 110-252
 - (6) An excessive amount (more than 50 percent) of bark has been removed.
 - (7) Tears and splitting of limb ends or peeling and stripping of bark.
 - (8) Use of climbing spikes, or cutting into the tree for the purposes of climbing on any species of tree for any purpose other than:
 - (i) Total removal of a tree that has an approved tree removal permit; or
 - (ii) Trimming of a palm tree that has an approved maintenance trimming permit as defined in Section 110-402(e).
 - (9) Girdling a tree with the use of wires (e.g., use of weedeater, mower damage).
- (c) *Additional prohibitions.*
 - (1) No private property owner or agent shall damage, cut, or carve any tree or tree root located on the owner's property; or allow any liquid, solid or biological substance that is harmful to trees to be placed within the dripline.
 - (2) No person shall cut or otherwise damage a root or roots of a tree located on public property without first obtaining a permit from the tree commission.
 - (3) If a root or roots of a tree on private property migrates into another property, the owner of the tree must consult with the Urban Forestry Manager before commencing any work that will result in severing the root.
 - (4) Trenching of any kind shall not be done within the dripline of any tree. Only mechanical- or auger-type equipment shall be used to place conduit under a tree root system.
 - (5) Attachments to trees; excessive cut or fill.
 - i. *Attachments to trees prohibited.* It shall be unlawful to attach anything to a tree trunk or stem having a diameter of six inches or more, other than protective wires, braces or other similar noninjurious materials.
 - ii. *Excessive cut and/or fill.* It shall be unlawful to remove any material or ground within the dripline of a tree which is necessary for the growth of the subject tree.
- (d) *Exceptions.* Exceptions to this section are as follows:

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

- (1) Any trees listed on the most recent edition of the Florida Exotic Pest Plan Council Invasive Plant List and not found on the City of Key West Section 110-253 specially protected trees list are not protected by this section.
- (2) Utility line clearing in conformance with ANSI A-300 and ANSI Z133.1 safety standards and National Electrical Safety Code clearances does not constitute tree abuse.
- (3) No action in removing a lightning damaged tree or trees.
- (4) Trees severely damaged by hurricane, windstorm, flood or like event declared a city emergency by the Mayor on behalf of the City Commission.

Sec. 110-257. Ficus trees.

No species of Ficus tree, except for the two native species of Ficus, the shortleaf fig (*Ficus citrifolia*) and the strangler fig (*Ficus aurea*) shall be planted on city property. Owners of private property are hereby discouraged from the planting of any non native tree Ficus species.

Sec. 110-258. Emergencies.

In emergencies presenting imminent threat to person or property, any person may cause the removal of or major maintenance to a tree, provided that the city Urban Forestry Manager recommends approval, and this action is reasonably calculated to dissipate the threat.

- (a) Within three (3) business days of such action, such person shall file an application to the tree commission for an after-the-fact tree permit for its replacement to include photos of three sides of the tree prior to removal or trimming.
- (b) The applicant shall comply with all reasonable remedial actions prescribed by the tree commission, which remedy shall be in the form described in section 110-327(4) through (6), unless the tree can be saved in its present location.

(c) The Urban Forestry Manager may allow the replacement requirement for the emergency removal of a dicot tree to be (1)-8 foot tall tree, minimum 1 inch diameter, from the approved canopy tree replacement list, for every 24" diameter of tree being removed.

Sec. 110-259. Duty of private property owner.

- (a) It shall be the duty of any person or entity owning or occupying private real property bordering on any street, upon which private property there is a tree or trees, to maintain such trees in a manner that such trees will not obstruct the street lights, obstruct the passage of pedestrians on sidewalks, rights-of-way, roadways, obstruct vision of traffic signs or traffic lights, obstruct views of any street or alley intersection or grow into utility wires. All landscaping shall be trimmed at least 80 inches above a walking surface and a minimum width of 36 inches for clear passage, or the width of the sidewalk.
- (b) It shall be the duty of any person or entity owning or occupying private real property bordering on any street, park or other public land, upon which private property there is a tree or trees that is diseased or infested, to treat or remove (with permit, as applicable) such tree or trees in a manner that they will not infect or damage nearby public vegetation or otherwise cause harm to the community or its citizens.
- (c) Notwithstanding section 110-288, a code enforcement officer may take an alleged violation of subsection (a), hereof, directly through the code enforcement process described in chapter 2, article VI of the Code of Ordinances.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 1. GENERALLY

(d) No planting with be done on the City right of way by a private property owner unless a permit has been reviewed and issued by the Engineering Department.

Sec. 110-260. Champion trees.

- (a) The tree commission shall designate and maintain a census of champion trees in Key West. The Urban Forestry Manager shall update the census every five years or after a major hurricane. After a tree is designated a champion tree, the Urban Forestry Manager shall notify the property owner within sixty (60) days of the designation.
- (b) The tree commission's designation of champion status shall require a supermajority vote. In the event of an appeal to the city commission on the designation or lack of designation of a tree as a champion, the commission's decision shall be by supermajority vote.

Secs. 110-261. Heritage Tree Program

(a) Application and Processing

(b) Awards

Secs. 110-252—110-285. Reserved.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 2. ADMINISTRATION AND ENFORCEMENT

DIVISION 2. ADMINISTRATION AND ENFORCEMENT ^[5]

[Sec. 110-286. Personnel.](#)

[Sec. 110-287. Funds.](#)

[Sec. 110-288. Hearings on violations.](#)

[Sec. 110-289. Required notice of hearing.](#)

[Sec. 110-290. Hearing procedure.](#)

[Sec. 110-291. Compliance settlement agreements.](#)

[Sec. 110-292. Failure to achieve a compliance agreement.](#)

[Sec. 110-293. Fine recommended by tree commission.](#)

[Sec. 110-294. Notice of tree commission's final decision.](#)

[Sec. 110-295. Authority of special master.](#)

[Secs. 110-296—110-320. Reserved.](#)

Sec. 110-286. Personnel.

As provided by the annual city budget, the city manager shall provide appropriate staff to enable the tree commission to fulfill its duties and shall cause the minutes of all meetings to be recorded, transcribed in summary form and submitted to the tree commission for its approval. The city attorney shall serve as legal counsel to the tree commission in all matters.

Sec. 110-287. Funds.

The city manager shall establish within the city's operating budget a special account which shall include all funds donated to the work of the tree commission by any person, all funds donated to the city pursuant to section 110-327(7), all funds received from compliance settlement agreements as established in section 110-291, all funds received by the city from fines imposed in enforcement of this article by the code enforcement special master, and any other compensation paid to the city for damage to trees belonging to the city. Funds in the special account shall be spent only as requested by the Urban Forestry Manager and approved by the tree commission and approved by the city commission and shall be used to finance education about city tree programs and to finance protection, replacement, or additional plantings of trees in the city.

(Add a section about moneys derived from application fees)

Sec. 110-288. Hearings on violations.

When the Urban Forestry Manager or a code enforcement officer determines that a tree has been damaged or destroyed in violation of this article, the Urban Forestry Manager may schedule a hearing before the tree commission. The hearing may occur at a regular or a special meeting.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 2. ADMINISTRATION AND ENFORCEMENT

Sec. 110-289. Required notice of hearing.

Written notice of the hearing held pursuant to this division shall be provided to the alleged violator either by hand, posted on the property, e-mail, or by certified mail, return receipt requested. Notice shall be mailed or delivered by the city at least ten (10) days before the hearing. The notice shall state the alleged violation. The tree commission may entertain a request for a continuance of the hearing to a later date. If the Urban Forestry Manager determines that the alleged violation presents an immediate and serious threat to the public health, safety, and welfare, the Urban Forestry Manager may forward the case directly to the code enforcement special master as prescribed in article VI of chapter 2.

Sec. 110-290. Hearing procedure.

A hearing before the tree commission on a violation of this article shall be informal and need not be conducted according to the technical rules of evidence. All relevant evidence shall be admitted. All testimony shall be under oath and recorded pursuant to Florida law by written minutes. The alleged violator shall be afforded the opportunity to be heard at the hearing. If the alleged violator is absent and notice of the hearing has been provided sufficiently, the tree commission may conduct the hearing and render a decision. At the conclusion of the hearing, the tree commission shall issue findings to support its decision.

Sec. 110-291. Compliance settlement agreements.

The tree commission may enter into a compliance settlement agreement with any person who admits to or is found to be in violation of this article, in lieu of being prosecuted for an alleged violation hereunder. Conditions contained in a compliance settlement agreement may include any one or a combination of the following:

- (1) A restitution payment into the City of Key West Tree Fund ~~to the city~~ based on the value of the damaged or destroyed tree (value to be determined by appraisal of the Urban Forestry Manager; provided, however, that the property owner may offer an alternate value to the tree commission for its consideration);
- (2) A donation of a Florida #1 tree or trees to the city or a non-profit organization, as determined and approved by the tree commission (based on replacement value);
- (3) A replanting of an approved, preferably a Florida #1 tree or trees on the subject property;
- (4) Time limits of performance by the person;
- (5) A performance bond in an amount to secure compliance with a settlement agreement hereunder, and to be dissolved upon compliance with all terms of that settlement agreement; and
- (6) Require the homeowner to hire an arborist to make corrective cuts on regrowth of an unauthorized trimmed tree after a determined amount of time.

If a property is sold prior to the completion of compliance with a settlement agreement, then the new owner shall be subject to the terms and conditions of the compliance settlement agreement. It shall be the duty of the selling property owner within ten (10) days of the effective date of the sales contract to provide the buyer with a copy of the compliance settlement agreement. The Urban Forestry Manager shall issue a letter to the property owner when compliance is achieved.

Subpart B - LAND DEVELOPMENT REGULATIONS
Chapter 110 - RESOURCE PROTECTION
ARTICLE VI. - TREE PROTECTION

DIVISION 2. ADMINISTRATION AND ENFORCEMENT

Sec. 110-292. Failure to achieve a compliance agreement.

If the alleged violator declines to enter into a compliance settlement agreement as provided in section 110-291, the tree commission shall forward the case to the code enforcement special master for further hearing and penalty.

Sec. 110-293. Fine recommended by tree commission.

The tree commission shall issue a recommendation of a fine to the code enforcement special master based on its findings at the hearing on a violation of this article. If the tree commission finds that the damage to the tree is irreparable or irreversible, the tree commission may recommend that the special master impose a one-time fine of up to \$5,000.00 per violation pursuant to F.S. 162.09(2)(a).

(rewrite this section to include a statement of fines for 1st , 2nd offensives, property owner and hired worker, to be adjusted per resolution of City Commission and increase one time fine)

Sec. 110-294. Notice of tree commission's final decision.

When a person found to be in violation of this article by the tree commission opts not to enter into a compliance settlement agreement, the tree commission shall provide written notice of its final decision and its intention to forward the case to the code enforcement special master. Notice shall be sent either by hand or by mail, return receipt requested, or confirmed electronic mail or fax, within ten (10) days of the hearing.

Sec. 110-295. Authority of special master.

The code enforcement special master shall have the authority to enforce compliance with the terms of this article.

***Sec.110-296. Failure To Comply with Settlement Agreement**

*If the alleged violator does comply with the settlement agreement as provided in section 110-291, the Urban Forestry Manager on behalf of the Tree Commission shall forward the case to the code enforcement special master for further hearing and penalty.

Secs. 110-297—110-320. Reserved.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 3. PERMIT

DIVISION 3. PERMIT

[Sec. 110-321. Required.](#)

[Sec. 110-322. Exceptions.](#)

[Sec. 110-323. Application.](#)

[Sec. 110-324. Determination by Urban Forestry Manager.](#)

[Sec. 110-325. Review and action by tree commission.](#)

[Sec. 110-326. Public meetings.](#)

[Sec. 110-327. Approval criteria.](#)

[Sec. 110-328. Findings of disapproval.](#)

[Sec. 110-329. Reserved.](#)

[Sec. 110-330. Application of criteria.](#)

[Sec. 110-331. Issuance.](#)

[Sec. 110-332. Disapproval.](#)

[Sec. 110-333. Posting.](#)

[Sec. 110-334. Expiration.](#)

[Sec. 110-335. Exemptions.](#)

[Sec. 110-336. Pruning or heavy maintenance.](#)

[Sec. 110-337. Appeals.](#)

[Secs. 110-338—110-365. Reserved.](#)

Sec. 110-321. Required.

- (a) Unless a tree removal permit approved by the tree commission and issued by the Urban Forestry Manager has been obtained, no person, whether on publicly or privately owned land, shall cause tree abuse or other harm, or major maintenance to, hatracking, transplanting, topping or removal of the following:
 - (1) Any tree listed as "specially protected" in section 110-253; or
 - (2) Any monocot/palm tree which is ten (10) feet or more in height measured to the terminal bud. Palm tree counts are determined by root ball; or
 - (3) Any dicot/canopy tree which is four (4) inches or more in diameter at standard height (DSH); or
 - (4) Any maintenance to (major or minor) or transplanting of a tree recognized as being a Champion Tree.
 - (5) The use of climbing spikes for the purpose of maintenance trimming of a palm tree that cannot be accessed by a bucket truck.
- (b) If there is an alleged violation of this section, the tree commission may conduct a hearing to determine a violation in accordance with procedures set forth in sections 110-288 through 110-295

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 3. PERMIT

- (c) The Urban Forestry Manager shall be authorized to approve permits for the removal of non-native palms, for maintenance trimming of palm trees using spikes, for major maintenance of all dicot trees, transplantations, root trimming or trees, and construction activities near trees.

(d) The removal of trees shall require replacements, as listed in Sec 110-331.

Sec. 110-322. Exceptions.

- (a) No permit shall be required for the removal of trees listed in section 110-254. In addition, all species of Ficus that have a diameter at standard height (DSH) of two (2) feet or smaller may be removed without permit; provided, however, that permits for removal of a strangler fig (*Ficus aurea*) or a shortleaf fig (*Ficus citrifolia*) shall in all instances be required.
- (b) A tree may be transplanted from one location to another location, either on the same site or to a different site, only with a permit; however, no permit is required when a tree is moved or transplanted from a holding area. For the purposes of this subsection, a holding area is deemed to be the area on the same site where a tree is held for not longer than thirty (30) days and held with the property owner's intent to move or transplant it. The holding area shall be irrigated, and trees shall be staked properly for structural support.
- (c) No permit shall be required for the removal of a tree or trees located entirely within an interior courtyard, when that courtyard is enclosed on its four sides by a residence or commercial building; provided, however, that a permit is required if the tree has been designated as a champion.
- (d) A permit is not required for the trimming of a dicot tree if; less than 1/3 of the tree and/or canopy is being removed; as defined in section 110-252 as major maintenance, and the trimming does not impact the overall shape of the tree; branches being removed are not a primary, structural branches and are less than 6 4 inches in diameter; and the work is being reduced in size and density by more than 1/3 as defined in section 110-252 as major maintenance. A tree trimming permit will include a condition that requires the tree to be monitored for one year to ensure the health of the tree.

Sec. 110-323. Application and Fee.

All applications for a tree removal permit shall be made to the Urban Forestry Manager. The application shall include an inventory of all existing trees in the area of proposed construction impact, including ingress to and egress from this area. The inventory shall state size, diameter and species of each tree. In order for the application to be acted upon, it must be signed by the property owner, or a notarized letter from the property owner must be attached to the application designating an authorized agent. The applicant shall be responsible for clearly marking the subject trees on the site with flagging tape.

(FEES?—Application fees as determined by City Commission resolution.)

Sec. 110-324. Determination by Urban Forestry Manager.

After receiving an application for a tree removal permit, the Urban Forestry Manager within 45 days of receipt of the application shall conduct a site visit and prepare an application evaluation report ("AER"). The AER shall contain an evaluation of the tree, its species, size and condition. The AER shall determine a replacement value on an inch-by-inch basis; or an equivalent value on a monetary basis. An equivalency determination shall include, but not be limited to, an evaluation of species, condition, and location. The Urban Forestry Manager shall then forward the AER to the tree commission (copy to the applicant) for

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 3. PERMIT

consideration during permit review. If the site visit is not concluded and the AER not issued within the prescribed 45 days, then the Urban Forestry Manager shall issue the permit forthwith.

Sec. 110-325. Review and action by tree commission.

Review and action by the tree commission on the application for a tree removal permit shall be as provided in sections 110-326 through 110-330.

Sec. 110-326. Public meetings.

The Tree Commission, within 30 days of receiving a ~~complete the~~ application ~~and~~ evaluation report (AER) set forth in section 110-324, shall hold a public meeting to review and act on all applications for tree removal, including development plans involving tree removal and landscaping. The planning board shall not review a development plan until the plan has been reviewed by the tree commission, unless the Urban Forestry Manager renders a finding that the subject development plan is compliant with all criteria of article VI of chapter 108 and this article. Notice of the date of the tree commission meeting shall be provided to the applicant. The applicant shall be given reasonable opportunity to be heard at the public meeting prior to the tree commission's action.

Sec. 110-327. Approval criteria.

The tree commission shall consider its finding of one or more of the following facts as grounds supporting approval of a tree removal permit application:

- (1) The tree is a hazard to traffic, public utilities, buildings or structures;
- (2) The tree is injured, diseased or insect infested such that it is a hazard to people, structures or other trees;
- (3) The tree prevents access to a lot or parcel;
- (4) The tree will be properly transplanted to another location in the city by the property owner with the consent of the owner of the new location. Transplanting shall take place following ANSI A-300 standards. The new owner shall maintain the tree. If it dies, then the new owner shall replace it with one or more trees of equal value, as approved by the tree commission;
- (5) The tree will be replaced with an equivalent tree planted in a location suitable for healthy growth on the same lot or parcel. Sufficient space shall be provided on site to allow replacement tree(s) to establish a mature canopy spread, based on typical growth characteristics. The tree commission shall have the ability, at the request of the applicant, to allow the replacement of dicot trees with native palm trees and the replacement of palm trees with dicot trees in areas due to unique placement challenges or existing landscape without losing overall canopy where possible;
- (6) The tree will be replaced with an equivalent tree that is:
 - (a) Donated to a non-profit organization approved by the tree commission; and
 - (b) Guaranteed by the applicant for a minimum of one year after planting; or
- (7) Funds equivalent to the cost of a Florida #1 canopy tree or palm, (determined by the Tree Commission using the city code minimum tree size specified in section 108-382, then divided by the city code specified diameter of two and one-half (2½) inches (DSH) will be donated by the applicant to the city for use as provided by section 110-287

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 3. PERMIT

- (a) The current amount of the standard donation, approved by the Tree Commission, *is \$200 per caliper inch for a canopy tree and \$225 per caliper inch for a Royal Poinciana tree removed.* For palm trees the approved amount is \$250 per palm removed. Rates may be adjusted by Resolution of the city commission.
- (b) In those instances including emergencies pursuant to section 110-258, where an applicant cannot pay for the replanting of trees on their property or cannot afford to make the standard donation, or the size of the property does not allow for suitable replanting, the Tree Commission shall make a reasonable effort to reduce the mitigation requirements if evidence can be shown that the hardship exists. In all other cases, the replanting of trees or standard donation is required. The Tree Commission shall consider the following factors when determining if a hardship exists:
 - i. For an individual, either the current receipt of assistance through the mayor's revolving loan fund, rental rehabilitation program, or other program which is income-indexed and which provides for physical improvements to the subject property; or the current receipt of fixed income benefits such as social security, AFDC, or private pension benefits, and the applicant's total income is below 80 percent of the median income for the city, all as evidenced by income tax return or affidavit; or
 - ii. For a corporation, current tax-exempt status as a nonprofit corporation under section 501(c)(3) of the Internal Revenue Code.

Sec. 110-328. Findings of disapproval.

The tree commission shall consider its finding of one or more of the following facts as grounds supporting disapproval of a tree removal permit application:

- (1) The species, size, champion tree status, historical importance and/or condition of the tree make it a unique or rare specimen; or
- (2) The size or location of the tree makes it substantial in and easily accessible to public view.

Sec. 110-329. Reserved.

Sec. 110-330. Application of criteria.

The tree commission shall determine whether to approve each tree removal permit application by weighing its findings made pursuant to sections 110-327 and 110-328. Except for trees meeting the criteria of either section 110-327(1) or (2), no permit for tree removal shall be issued unless the tree commission makes an affirmative finding under section 110-327(4), (5), (6) or (7) and weighs such finding as provided in this division.

Sec. 110-331. Issuance.

- (1) Each approval of a tree removal permit shall be signed by the chairperson of the tree commission. Notice of its approval shall be given by the tree commission to the Urban Forestry Manager which shall issue a permit.
- (2) Permits will be finalized within five (5) business days of the tree commission approval of the permit. Final, signed permits will be held in office for one week then mailed to the applicant and representative.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 3. PERMIT

- (3) Compliance: Permits remain open until a site inspection by the Urban Forester has been done to document the replacement plantings, the proper trimming of the tree, or the survivability of the transplant.
- (a) Replacement palms shall be native palm trees or palms species listed on the approved Tree Commission replacement palm list, and shall be 4 feet tall in total height from ground to frond. An 8-foot tall palm shall be counted as two replacement palms.
 - (b) Replacement dicot trees shall be measured by caliper and shall be Florida #1 grade native trees or trees listed in section 110-253. Or tree species listed on the approved Tree Commission replacement tree list.
 - (c) A credit of 2:1 shall be given to the homeowner/applicant for using State listed Threatened or Endangered plant species on replacement values for dicot trees.
 - (d) A credit of 4:1 shall be given to the homeowner/applicant for using (*Bursera simaruba*) Gumbo limbo, (*Ficus aurea*) Strangler Fig, (*Ficus citrifolia*) Shortleaf Fig, (*Manilkara zapota*) Sappodilla, (*Melicoccus bijugatus*) Spanish Lime, (*Piscidia piscipula*) Jamaica Dogwood, and (*Swietenia mahagoni*) Mahogany trees on replacement values for dicot trees.
 - (e) A credit of 4:1 shall be given to the homeowner/applicant for using (*Delonix regia*) Royal Poinciana trees o replacement values for dicot trees.
- (4) If a permit holder fails to fulfill the terms of the tree removal permit as provided in Chapter 110, Article VI, Division 3, the Tree Commission shall forward the case to the Code Enforcement special master for further hearing and penalty.

Sec. 110-332. Disapproval.

If the application for a tree removal permit is disapproved, the applicant may modify and resubmit the application only after six (6) months from the date of denial and in accordance with tree commission regulations.

Sec. 110-333. Posting.

The applicant for the tree removal permit shall keep the permit posted upon the tree during the work.

Sec. 110-334. Expiration.

All tree removal permits shall expire six (6) months after the date of issuance. If work to be done pursuant to the permit is not complete, then the property owner must apply to the tree commission for renewal of the permit. The Urban Forestry Manager shall grant one six (6)-month renewal as of right and may grant a summary administrative approval of future renewal applications.

Sec. 110-335. Exemptions.

The tree commission shall have the option of granting an open-ended tree removal permit to Keys Energy Services. Such permit shall be subject to periodic reviews to ensure compliance with ANSI A-300 standards. Permits for the removal of ~~trees~~ palms requested by Keys Energy Service do not require replacements. Permits for the removal of dicot trees requested by Keys Energy will require the replacement

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 3. PERMIT

of (1)-8 ft tall, minimum 1 inch diameter approved canopy tree to be planted by the property owner on the property.

Sec. 110-336. Pruning or heavy maintenance.

- (1) Pruning of trees shall be performed following pruning standards set by ANSI A-300 standards, ~~as provided in division 5 of this article.~~
- (2) A permit is not required for the trimming of a dicot tree if: less than 1/3 of the tree and/or canopy is being removed as defined in section 110-252 as minor maintenance, and the trimming does not impact the overall shape of the tree; branches being removed are not primary, structural branches and are less than 6.4 inches in diameter; and the work is done according to ANSI A-300 standards.
- (3) A permit is required for the removal of large, structural branches and if the tree is being reduced in size or overall shape and density by more than 1/3 as defined in section 110-252 as major maintenance.

Sec. 110-337. Appeals.

Appeals of the tree commission's permit decisions may be taken to the city commission as provided in section 90-429.

Secs. 110-338—110-365. Reserved.

(Add a section regarding the re-inspection of closed permits after one year to check on survivability of planted replacement trees. If tree/palm has died, a new one is required to be planted.)

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 4. PROTECTION STANDARDS

DIVISION 4. PROTECTION STANDARDS

[Sec. 110-366. Protective barricades; performance bond.](#)

[Sec. 110-367. Fences and walls.](#)

[Sec. 110-368. Failure to comply.](#)

[Sec. 110-369. Tree cutting standards.](#)

[Secs. 110-370—110-395. Reserved.](#)

Sec. 110-366. Protective barricades and ; performance bond.

(a) All trees on a site shall be protectively barricaded before and during construction activities. The minimum barricading shall be subject to review by the Urban Forestry Manager.

(add statements regarding stock piling of materials, heavy machinery, excessive traffic)

(b) Upon a vote of the tree commission, a performance bond in addition to a protective barricade may be required from the agent or owner for any tree protection, removal or transplanting to guarantee protection of a tree or to ensure restoration of an equivalency. The amount of such bond shall be based on the equivalent value of the tree specifically covered. Any bond required for a protected tree shall be four times the equivalent value for that tree, but in no event shall exceed \$5,000.00.

Sec. 110-367. Fences and walls.

The root systems of existing trees shall be taken into consideration when installing fences and walls. Post holes and trenches located close to trees shall be dug by hand and adjusted as necessary to avoid damage to major roots. Continuous footers for masonry walls shall be ended at the point larger roots are encountered and the roots bridged.

Sec. 110-368. Failure to comply.

Any owner, tenant, contractor or agent thereof who fails to provide tree protection as stated in this division shall be guilty of tree abuse.

Sec. 110-369. Tree cutting standards.

All trees shall be cut pursuant to division 5 of this article pertaining to pruning standards.

Secs. 110-370—110-395. Reserved.

(Add Section regarding Critical Root Zone)

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 5. PRUNING STANDARDS

DIVISION 5. PRUNING STANDARDS

[Sec. 110-396. Definitions.](#)

[Sec. 110-397. Class I pruning.](#)

[Sec. 110-398. Class II pruning.](#)

[Sec. 110-399. Class III pruning.](#)

[Sec. 110-400. Class IV pruning generally.](#)

[Sec. 110-401. Class IV crown reducing pruning.](#)

[Sec. 110-402. Palms.](#)

[Secs. 110-403—110-430. Reserved.](#)

Sec. 110-396. Definitions.

The following words, terms and phrases, when used in this division, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Arborist means a professional who possesses the technical competence through experience and related training to provide for or supervise the management of trees and other woody plants in the residential, commercial and public landscape.

Boundary reaction zone means a separating boundary between wood present at the time of wounding and wood that continues to form after wounding.

Branch and *limb* mean a secondary shoot or stem arising from one of the main axes (i.e., trunk or leader) of a tree.

Branch bark ridge means the raised area of bark in the branch crotch that marks where the branch wood and trunk wood meet.

Branch collar means trunk tissue that forms around the base of a branch between the main stem and the branch. As a branch decreases in vigor or begins to die, the branch collar becomes more pronounced.

Callus tissue means undifferentiated tissue formed by the cambium layer around a wound.

Cambium means the dividing layer of plant cells that forms sapwood (xylem) to the inside and bark (phloem) to the outside.

Canopy means the upper portion of the tree consisting of limbs, branches, and leaves.

Certified arborist means a professional arborist who is certified by the International Society of Arboriculture and has a valid certificate number.

Clean cuts means cuts made using a sharp tool, with no nicks or tears on the branch collar or the trunk.

Climbing spurs means sharp, pointed devices affixed to the climber's legs used to assist in climbing trees (a.k.a. gaffs, hooks, spurs, spikers and climbers).

Closure means the process of woundwood covering a cut or other tree injury.

Crotch means the angle formed at the attachment between a branch and another branch, leader or trunk of a woody plant.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 5. PRUNING STANDARDS

Crown, technically, means the juncture of the trunk above the roots, but in common usage it refers to the foliage comprising the uppermost branch structure.

Crown cleaning means the removal of dead, dying, diseased, crowded, weakly attached, or low-vigor branches and watersprouts from a tree's crown.

Crown raising means the removal of the lower branches of a tree in order to provide clearance.

Cut means the exposed wood area resulting from the removal of a branch or portion thereof.

Decay means the degradation of plant tissue, including wood, by pathogens such as fungus organisms. Wood decay can reduce the structural integrity of a tree or its individual limbs.

Dormant means a state of inactivity, or no growth. Deciduous trees are considered to be dormant from the time the leaves fall until new foliage begins to appear.

Drop crotch pruning means the specific cutting back of a branch or leader to a lateral branch at least one-third to one-half the diameter of the cut being made.

Espalier means pruning that is a combination of cutting and training branches which are oriented in one plane, formally or informally arranged and usually supported on a wall, fence or trellis. The patterns can be simple or complex but the cutting and training is precise. Ties should be replaced every few years to prevent girdling the branches at the attachment site.

Girdling roots means roots located above or below the ground level whose circular growth around the base of the trunk or over individual roots applies pressure to the bark area, ultimately restricting sap flow and trunk/root growth, frequently resulting in reduced vitality and/or stability of the plant.

Heading means cutting a currently growing or one-year-old shoot back to a bud, or cutting an older branch or stem back to a stub or lateral branch not sufficiently large enough to assume the terminal role. Heading should rarely be used on mature trees.

Heartwood means the inactive xylem (wood) toward the center of a stem or root that provides structural support.

Lateral means a branch or twig growing from a parent branch or stem.

Leader means the primary terminal shoot or trunk of a tree.

Line clearance means pruning for the safe operation and maintenance of uninterrupted electric service.

Parent branch or stem means the tree trunk; or a large limb from which lateral branches grow.

Phloem means inner bark tissue through which primarily carbohydrates and other organic compounds move from regions of high concentration to low.

Photosynthesis means the process by which green plants manufacture food (carbohydrates) in cells containing chlorophyll, utilizing sunlight for energy.

Pollarding means a training system used on some large-growing deciduous trees that are severely headed annually or every few years to hold them to modest size or to give them and the landscape a formal appearance. Pollarding is not synonymous with topping, lopping, or stubbing. Pollarding is severely heading some and removing the other vigorous watersprouts back to a definite head or knob of latent buds at the branch ends.

Precut and *precutting* mean the removal of the branch far enough beyond the finished cut so as to prevent splitting into the parent stem. The branch is first undercut, then cut from the top before the final cut.

Pruning means the removal of plant parts, dead or alive, in a careful and systematic manner so as to not damage other parts of the plant.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 5. PRUNING STANDARDS

Qualified line clearance tree trimmer means a tree worker who, through related training and on-the-job experience, is familiar with the techniques in line clearance and has demonstrated his ability in the performance of the special techniques involved. This qualified person may or may not be currently employed by a line clearance contractor.

Qualified line clearance tree trimmer trainee means any worker undergoing line clearance tree trimming training who, in the course of such training, is familiar with the techniques in line clearance and has demonstrated his ability in the performance of the special techniques involved. Such trainees shall be under the direct supervision of qualified personnel.

Qualified person or personnel means workers who, through related training and/or on-the-job experience, are familiar with the techniques and hazards of arboriculture work including training, trimming, maintaining, repairing or removing trees, and the equipment used in such operations.

Qualified tree worker, person or personnel means a person who, through related training and on-the-job experience, is familiar with the hazards of pruning, trimming, maintaining, repairing or removing trees and with the equipment used in such operations and has demonstrated ability in the performance of the special techniques involved.

Qualified tree worker trainee means any worker undergoing on-the-job training who, in the course of such training, is familiar with the hazards of pruning, trimming, maintaining, repairing or removing trees and with the equipment used in such operations and has demonstrated ability in the performance of the special techniques involved. Such trainees shall be under the direct supervision of qualified personnel.

Sap flow means the course assumed by sap in its movement through a tree.

Sapwood means the active xylem (wood) that stores water and carbohydrates and transports water and nutrients; a wood layer of variable thickness found immediately inside the cambium, comprised of water-conducting vessels or tracheids and living plant cells.

Scars and injuries mean natural or manmade lesions of the bark in which wood is exposed.

Shall denotes a mandatory requirement.

Should denotes an advisory requirement.

Stub means an undesirable short length or a branch remaining after a break or incorrect pruning cut is made.

Sucker means a vigorous shoot arising at or below the graft union. See *Watersprout*.

Sunburn means bark injury cause by extreme heat from the sun.

Sunscald means bark splitting or injury caused by temperature extremes or sudden temperature fluctuation.

Target means a person, structure or object which could sustain damage from the failure of a tree or portion of a tree.

Terminal role means a branch that assumes the dominant vertical position on the top of a tree.

Thinning means the removal of branches where they arise in order to let in light, reduce wind resistance, remove unwanted branches, or to retain a tree's natural shape.

Topiary means trees sheared or pruned carefully in a formal shape.

Topping describes a generally undesirable pruning practice, but more often refers to the severe cutting back of branches with very little regard for the shape of the tree.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 5. PRUNING STANDARDS

Tracing means careful removal of the loose or damaged bark along the edges of a wound to encourage closure.

Trimming means the same as the definition of Pruning.

Underclearance means the removal of lower tree limbs to allow clearance beneath the tree crown.

Watersprout means a vigorous shoot arising from the aboveground portion of the tree or above the graft union.

Wound means the opening that is created any time the tree's protective bark covering is penetrated, cut, or removed, injuring or destroying living tissue. Pruning a live branch creates a wound, even when the cut is properly made.

Xylem means wood tissue; active xylem is called sapwood, and inactive xylem is called heartwood.

Cross reference— Definitions generally, § 1-2.

Cross reference— Definitions generally, § 1-2.

NOTE: ANSI 300 Pruning Standards are in the process of being rewritten. This section may need to be fully changed.

Sec. 110-397. Class I pruning.

Fine pruning of trees is recommended for premium quality work with an emphasis on aesthetic considerations in addition to structural integrity. Fine pruning shall consist of the removal of dead, dying, diseased, decayed, interfering, objectionable, obstructing, and weak branches, as well as selective thinning to lessen wind resistance. The removal of such described branches is to include those on the main trunks, as well as those inside the leaf area. An occasional undesirable branch, up to one-half inch (1.25 cm) in diameter, as described in this section, may remain within the main leaf area to its full length when it is not practical to remove it. All of the following specifications apply to class I fine pruning:

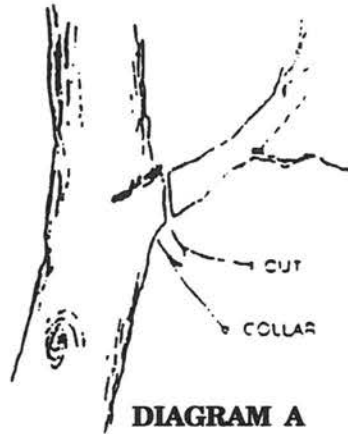
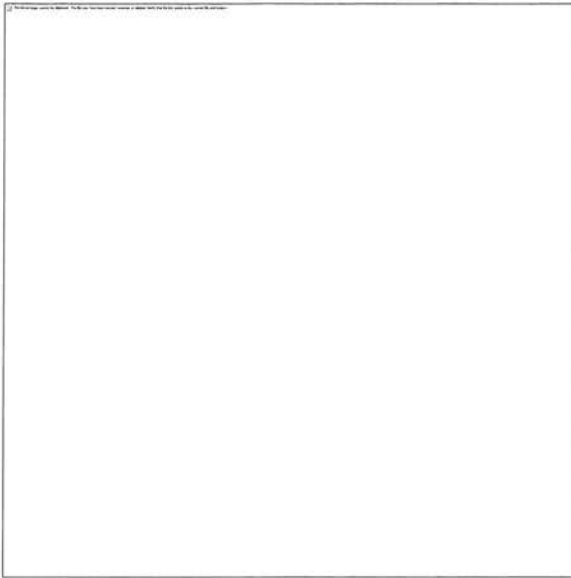
- (1) All cuts shall be made as close as possible to the trunk or parent limb, without cutting into the branch collar or leaving a protruding stub (see diagram A). Bark at the edge of all pruning cuts should remain firmly attached.

Subpart B - LAND DEVELOPMENT REGULATIONS

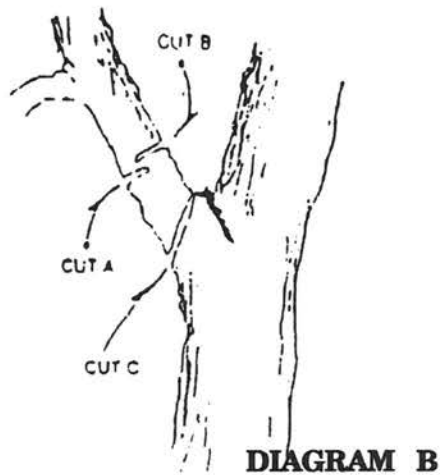
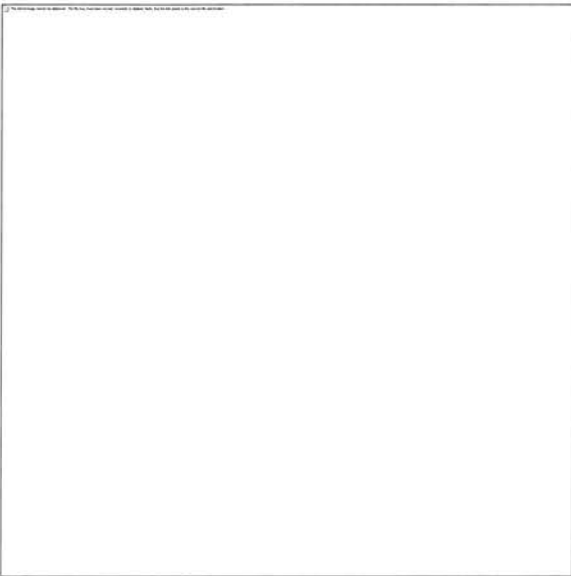
Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 5. PRUNING STANDARDS



- (2) All branches too large to support with one hand shall be precut to avoid splitting or tearing of the bark (see diagram B). Where necessary, ropes or other equipment should be used to lower large branches or stubs to the ground.



- (3) Treatment of cuts and wounds with wound dressing or paints has not been shown to be effective in preventing or reducing decay and is not generally recommended for that reason. Wound dressing over infected wood may stimulate the decay process. If wounds are painted for cosmetic or other reasons, materials nontoxic to the cambium layer of meristematic tissue must be used. Care must be taken to apply a thin coating of the material only to the exposed wood.
- (4) Old injuries are to be inspected. Those not closing properly and where the callus growth is not already completely established should be bark traced if the bark appears loose or damaged. Such tracing shall not penetrate the sapwood, and margins shall be kept rounded.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 5. PRUNING STANDARDS

- (5) Equipment that will damage the bark and cambium layer should not be used on or in the tree. For example, the use of climbing spurs, hooks, or irons is not an acceptable work practice for pruning operations on live trees. Sharp tools shall be used so that clean cuts will be made at all times.
- (6) All cut limbs shall be removed from the crown upon completion of the pruning.
- (7) Trees susceptible to serious infectious diseases should not be pruned at the time of year during which the pathogens causing the diseases or the insect vectors are most active. Similarly, if pruning wounds may attract harmful insects, pruning should be timed so as to avoid insect infestation.
- (8) Remove the weaker or less desirable of crossed or rubbing branches. Such removal, if possible, should not leave large open spaces in the general outline of the tree.
- (9) Where practical, all visible girdling roots shall be treated as follows:
 - a. Either cut the root at one end or sever the root in the center with a chisel in order to allow the growing tree to push the root away; and
 - b. Remove the section of the root.
- (10) The presence of any disease condition, fungus fruit bodies, decayed trunk or branches, split crotches or branches, cracks, or other structural weakness shall be reported in writing to a supervisor and/or the owner and corrective measures recommended.

Sec. 110-398. Class II pruning.

Standard pruning of trees is recommended for where aesthetic considerations are secondary to structural integrity and tree health concerns. Standard pruning shall consist of the removal of dead, dying, diseased, decayed, interfering, objectionable, obstructing, and weak branches, as well as selective thinning to lessen wind resistance. The removal of such described branches is to include those on the main trunks, as well as those inside the leaf area. An occasional branch, up to one inch (2.5 cm) in diameter, may remain within the main leaf area where it is not practical to remove it. All of the following specifications apply to class II standard pruning:

- (1) All cuts shall be made as close as possible to the trunk or parent limb, without cutting into the branch collar or leaving a protruding stub (see diagram A). Bark at the edge of all pruning cuts should remain firmly attached.
- (2) All branches too large to support with one hand shall be pre-cut to avoid splitting or tearing of the bark (see diagram B). Where necessary, ropes or other equipment should be used to lower large branches or stubs to the ground.
- (3) Treatment of cuts and wounds with wound dressing or paints has not been shown to be effective in preventing or reducing decay and is not generally recommended for that reason. Wound dressing over infected wood may stimulate the decay process. If wounds are painted for cosmetic or other reasons, materials nontoxic to the cambium layer of meristematic tissue must be used. Care must be taken to apply a thin coating of the material only to the exposed wood.
- (4) Old injuries are to be inspected. Those not closing properly and where the callus growth is not already completely established should be bark traced if the bark appears loose or damaged. Such tracing shall not penetrate the sapwood, and margins shall be kept rounded.
- (5) Equipment that will damage the bark and cambium layer should not be used on or in the tree. For example, the use of climbing spurs, hooks, or irons is not an acceptable work practice for pruning operations on live trees. Sharp tools shall be used so that clean cuts will be made at all times.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 5. PRUNING STANDARDS

- (6) All cut limbs shall be removed from the crown upon completion of the pruning.
- (7) Trees susceptible to serious infectious diseases should not be pruned at the time of year during which the pathogens causing the diseases or the insect vectors are most active. Similarly, if pruning wounds may attract harmful insects, pruning should be timed so as to avoid insect infestation.
- (8) All visible girdling roots are to be reported to a supervisor and/or the owner.
- (9) The presence of any disease condition, fungus fruit bodies, decayed trunk or branches, split crotches or branches, cracks, or other structural weakness shall be reported in writing to a supervisor and/or the owner and corrective measures recommended.

Sec. 110-399. Class III pruning.

Hazard pruning of trees is recommended where safety considerations are paramount. Hazard pruning shall consist of the removal of dead, diseased, decayed, and obviously weak branches, two inches (five cm) in diameter or greater. All of the following specifications apply to class III hazard pruning:

- (1) All cuts shall be made as close as possible to the trunk or parent limb, without cutting into the branch collar or leaving a protruding stub (see diagram A). Bark at the edge of all pruning cuts should remain firmly attached.
- (2) All branches too large to support with one hand shall be precut to avoid splitting or tearing of the bark (see diagram B). Where necessary, ropes or other equipment should be used to lower large branches or stubs to the ground.
- (3) Treatment of cuts and wounds with wound dressing or paints has not been shown to be effective in preventing or reducing decay and is not generally recommended for that reason. Wound dressing over infected wood may stimulate the decay process. If wounds are painted for cosmetic or other reasons, materials nontoxic to the cambium layer of meristematic tissue must be used. Care must be taken to apply a thin coating of the material only to the exposed wood.
- (4) Old injuries are to be inspected. Those not closing properly and where the callus growth is not already completely established should be bark traced if the bark appears loose or damaged. Such tracing shall not penetrate the sapwood, and margins shall be kept rounded.
- (5) Equipment that will damage the bark and cambium layer should not be used on or in the tree. For example, the use of climbing spurs, hooks, or irons is not an acceptable work practice for pruning operations on live trees. Sharp tools shall be used so that clean cuts will be made at all times.
- (6) All cut limbs shall be removed from the crown upon completion of the pruning.
- (7) Trees susceptible to serious infectious diseases should not be pruned at the time of year during which the pathogens causing the diseases or the insect vectors are most active. Similarly, if pruning wounds may attract harmful insects, pruning should be timed so as to avoid insect infestation.
- (8) All visible girdling roots are to be reported to a supervisor and/or the owner.
- (9) The presence of any disease condition, fungus fruit bodies, decayed trunk or branches, split crotches or branches, cracks, or other structural weakness shall be reported in writing to a supervisor and/or the owner and corrective measures recommended.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

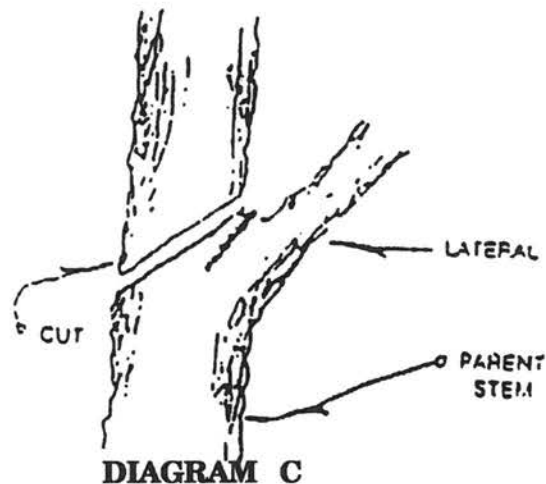
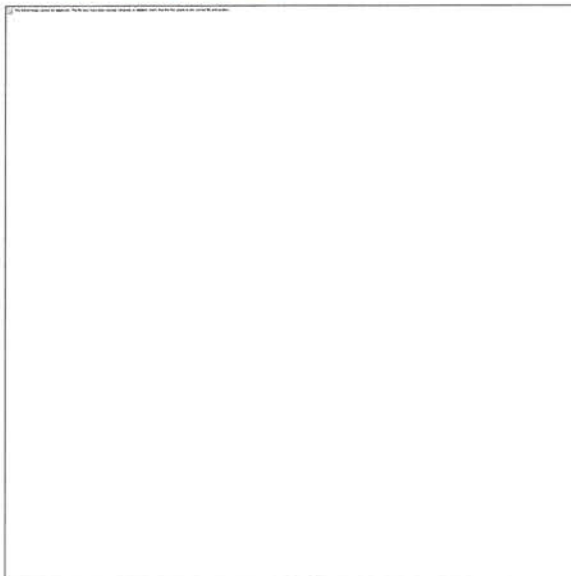
ARTICLE VI. - TREE PROTECTION

DIVISION 5. PRUNING STANDARDS

Sec. 110-400. Class IV pruning generally.

Crown reduction pruning of trees shall consist of the reduction of tops, sides, or individual limbs. The terms "cutting back" and "drop crotch pruning" are sometimes used interchangeably with the term "crown reduction pruning." By contrast, the term "topping" is used to refer to a generally unacceptable arboricultural practice. The correct technique for crown reduction involves removal of a parent limb or dominant leader at the point of attachment of a lateral branch (see diagram C). This practice is to be undertaken only for the following reasons:

- (1) In situations where branches interfere with utility lines;
- (2) When there has been significant crown dieback;
- (3) When it is necessary to achieve specific topiary training or dwarfing; and
- (4) When, due to storm damage or prior incorrect pruning, it is appropriate to prune for safety and aesthetic reasons.



Sec. 110-401. Class IV crown reducing pruning.

The following the specifications are for class IV crown reducing pruning:

- (1) All branches too large to support with one hand shall be precut to avoid splitting or tearing of the bark (see diagram B). Where necessary, ropes or other equipment should be used to lower large branches or stubs to the ground.
- (2) Treatment of cuts and wounds with wound dressing or paints has not been shown to be effective in preventing or reducing decay and is not generally recommended for that reason. Wound dressing over infected wood may stimulate the decay process. If wounds are painted for cosmetic or other reasons, materials nontoxic to the cambium layer of meristematic tissue must be used. Care must be taken to apply a thin coating of the material only to the exposed wood.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 5. PRUNING STANDARDS

- (3) Old injuries are to be inspected. Those not closing properly and where the callus growth is not already completely established should be bark traced if the bark appears loose or damaged. Such tracing shall not penetrate the sapwood, and margins shall be kept rounded.
- (4) Equipment that will damage the bark and cambium layer should not be used on or in the tree. For example, the use of climbing spurs, hooks, or irons is not an acceptable work practice for pruning operations on live trees. Sharp tools shall be used so that clean cuts will be made at all times.
- (5) All cut limbs shall be removed from the crown upon completion of the pruning.
- (6) Trees susceptible to serious infectious diseases should not be pruned at the time of year during which the pathogens causing the diseases or the insect vectors are most active. Similarly, if pruning wounds may attract harmful insects, pruning should be timed so as to avoid insect infestation.
- (7) When removing a parent leader or limb to a lateral branch, the final cut should be made as close to parallel as possible with the branch bark ridge and the lateral limb. The cut should be made as close to the bark ridge as possible without cutting into it. Care should be taken to avoid damaging the lateral limb when the final cut is made.
- (8) Remove the weaker or less desirable of crossed or rubbing branches. Such removal should not leave large open spaces in the general outline of the tree.
- (9) Generally, in crown reduction pruning, not more than one-third of the total area should be reduced at a single operation. Every effort should be made to cut back to a lateral at least one-third to one-half the diameter of the parent limb or leader that is being removed. Cuts not made to a suitable lateral, sometimes called topping cuts, shall not be permitted.
- (10) Before a branch is cut back, the ratio of live wood in the branch to leaf surface area in the branch should be considered carefully. The leaves must supply sufficient carbohydrates (food) to maintain the wood in the branch as well as send excess carbohydrates to the trunk and roots for storage and later use. Generally, not more than one-third the total leaf surface area should be removed at any one time.
- (11) Trees should be pruned to a shape typical of their species.
- (12) To prevent sunburn on thin-barked trees, just enough limbs shall be removed to get the desired effect without admitting too much sunlight to the trunk of the tree or the top of large branches. The damage may be minimized by doing work on susceptible species during the dormant season.
- (13) When removing the lower branches of trees for crown elevation or underclearance, care should be taken to maintain a symmetrical appearance, and cuts should not be made so large or so numerous that they will prevent normal sap flow.
- (14) Periodic crown reduction for certain species such as silver maple, the true poplars, and other trees with brittle and soft wood is an established arboricultural practice. This procedure has proven beneficial in maintaining safety over long periods of time. In all cases, it is preferable to make cuts when branches are small so as to avoid developing stem decay and to begin training these trees when they are young and prune them regularly thereafter so as to avoid removing an excessive amount of leaf surface in one operation.

Sec. 110-402. Palms.

- (a) Palm pruning should be performed when fronds, fruit, or loose petioles may create a dangerous condition.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 5. PRUNING STANDARDS

- (b) Live healthy fronds, should not be removed above the level horizontal plane initiating at the heart of the tree.
- (c) Fronds removed should be severed close to the petiole base without damaging living trunk tissues.
- (d) Palm peeling (shaving) should consist of the removal of the dead frond bases only, at the point they make contact with the trunk without damaging living trunk tissue.
- (e) Climbing spurs shall not be used to trim palms unless:
 - (1) A total tree removal permit is approved according to section 110-321; or
 - (2) A permit for maintenance trimming has been approved by the Tree Commission and satisfies the following criteria:
 - i. The palm tree cannot be accessed by a bucket truck.
 - ii. The work is being done by a certified arborist.
 - iii. The tree is of a height that safety of the arborist is an issue.
- (f) Hurricane cuts are not approved methods of palm pruning.

Secs. 110-403—110-430. Reserved.

(add section about property line trees and keeping the tree balanced when trimming. No "their" side of tree-look at tree 360 degrees)

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 6. REPLACEMENT

DIVISION 6. REPLACEMENT

Sec. 110-431. Failure to obtain permit.

Sec. 110-432. Reserved.

Sec. 110-433. Moving of landscaping.

Sec. 110-434. City maintenance of landscaping.

Sec. 110-435. Landscaping on county-maintained or state-maintained roads to be relocated or value paid.

Secs. 110-436—110-460. Reserved.

Sec. 110-431. Failure to obtain permit.

In the event a property owner removes a tree without a permit first having been approved by the tree commission; subject to section 110-258, and issued by the city, the property owner shall be subject to a hearing under this article and, upon a finding of violation without settlement, then code enforcement action.

Sec. 110-432. Reserved.

Sec. 110-433. Moving of landscaping.

Whenever a median cut is permitted or an access apron (driveway) is permitted to any city-maintained road, the tree commission shall evaluate the value of any landscaping that would be lost as a result of such access. The tree commission may decide that the landscape that would be lost should be moved to another publicly owned location specified by the city Urban Forestry Manager. The applicant shall be responsible for the cost of moving the landscaping as well as the actual root pruning and removal of such landscape materials under the direction of the city Urban Forestry Manager. All landscaping so removed shall be deemed to be part of any landscape approval of the applicant's site plan and shall be fully guaranteed in its new location. If the landscape is not found to have survived the move to such a new location, it shall be replaced within one year or by the date of the final certificate of occupancy on the development then under construction, whichever date should occur first.

Sec. 110-434. City maintenance of landscaping.

Any landscaping maintained by the city, either by formal agreement or by casual permit, on any road within the city which is functionally classified as either a county or state-maintained road which would be lost by virtue of the authorization of median cuts or access approach aprons (driveways) to the private property being developed shall be evaluated by the city Urban Forestry Manager as to the current value of such landscaping materials and cost involved in root pruning and removing the materials to another publicly owned site. The developer shall be advised of such cost and shall be given the opportunity of either paying such costs for the planting of comparable growth of similar quality and maturity where designated by the city Urban Forestry Manager or, alternatively, of root pruning and moving such landscaping. The moving of landscaping shall meet the requirements of section 110-433. However, the city Urban Forestry Manager shall add a 25-percent increment to the cost estimate for any new landscape material to be planted at the developer's expense as a replacement allowance for landscape material which might not survive when planted.

Subpart B - LAND DEVELOPMENT REGULATIONS

Chapter 110 - RESOURCE PROTECTION

ARTICLE VI. - TREE PROTECTION

DIVISION 6. REPLACEMENT

Sec. 110-435. Landscaping on county-maintained or state-maintained roads to be relocated or value paid.

All landscaping on county-maintained or state-maintained roads which is to be relocated or the value thereof paid as provided in this division shall also be deemed part and parcel of the landscape plan for the developer's properties then under development permit, and no certificate of occupancy shall be issued thereon until the city is fully repaid for the lost landscaping plus the replacement allowance or, alternatively, the landscaping is root pruned, replanted and those found dead replaced prior to the issuance of the final certificate of occupancy.

Secs. 110-436—110-460. Reserved.