

PLANNING AND ZONING BOARD/ LOCAL PLANNING AGENCY

REGULAR MEETING AMENDED AGENDA WEDNESDAY, JUNE 3, 2020 AT 5:30 PM

CITY HALL - COMMISSION CHAMBERS
1126 EAST STATE ROAD 434, WINTER SPRINGS, FLORIDA

CALL TO ORDER

Roll Call Invocation Pledge of Allegiance Approval of the Agenda

AWARDS AND PRESENTATIONS

100. Not Used

INFORMATIONAL AGENDA

200. Not Used

PUBLIC INPUT

Anyone who wishes to speak during Public Input on any Agenda Item or subject matter will need to fill out a "Public Input" form. Individuals will limit their comments to three (3) minutes, and representatives of groups or homeowners' associations shall limit their comments to five (5) minutes, unless otherwise determined by the City Commission.

CONSENT AGENDA

300. Approval of the Minutes from the Wednesday, April 1, 2020 Planning And Zoning

Board/Local Planning Agency Regular Meeting

Attachments: Minutes

PUBLIC HEARINGS AGENDA

400. Accessory Dwelling Unit – Cale Matthews and Jade Matthews

Attachments: <u>Vicinity and Aerial Maps</u>

Conditional Use Application (December 4, 2019)

Plans (Survey, Elevations, Floor Plans)

Color Renderings

401. Review of Ordinance 2020-03 Amending Chapter 5 of the City Code

regarding tree protection and preservation; providing conforming

amendments to other provisions of the City Code consistent with chapter 5; providing for the repeal of prior inconsistent ordinances and resolutions;

incorporation into the code; severability and an effective date.

Attachments: Ordinance 2020-03

REGULAR AGENDA

500. Not Used

REPORTS

PUBLIC INPUT

Anyone who wishes to speak during Public Input on any Agenda Item or subject matter will need to fill out a "Public Input" form. Individuals will limit their comments to three (3) minutes, and representatives of groups or homeowners' associations shall limit their comments to five (5) minutes, unless otherwise determined by the City Commission.

ADJOURNMENT

PUBLIC NOTICE

This is a Public Meeting, and the public is invited to attend and this Agenda is subject to change. Please be advised that one (1) or more Members of any of the City's Advisory Boards and Committees may be in attendance at this Meeting, and may participate in discussions.

Persons with disabilities needing assistance to participate in any of these proceedings should contact the City of Winter Springs at (407) 327-1800 "at least 48 hours prior to meeting, a written request by a physically handicapped person to attend the meeting, directed to the chairperson or director of such board, commission, agency, or authority" - per Section 286.26 *Florida Statutes*.

"If a person decides to appeal any decision made by the board, agency, or commission with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based" - per Section 286.0105 *Florida Statutes*.

CITY OF WINTER SPRINGS, FLORIDA MINUTES

PLANNING AND ZONING BOARD/LOCAL PLANNING AGENCY

REGULAR MEETING APRIL 1, 2020

CALL TO ORDER

Chairperson Kok Wan Mah called to order the Wednesday, April 1, 2020 Regular Meeting of the Planning and Zoning Board/Local Planning Agency at 5:35 p.m. in the Commission Chambers (City Hall, 1126 East State Road 434, Winter Springs, Florida 32708).

Roll Call:

Chairperson Kok Wan Mah present
Vice-Chairperson Kevin McCann, present
Board Member James Evans, present via telephone
Board Member Michael Ferrante, present via telephone
Board Member Bart Phillips, present
City Attorney Anthony A. Garganese, present
Interim City Clerk Christian Gowan, present

A moment of silence was followed by the Pledge of Allegiance.

No changes were made to the Agenda.

AWARDS AND PRESENTATIONS

100. Not Used

INFORMATIONAL AGENDA

200. Not Used

PLANNING AND ZONING BOARD/LOCAL PLANNING AGENCY

REGULAR MEETING – APRIL 1, 2020 PAGE 2 OF 3

PUBLIC INPUT

Chairperson Mah opened "Public Input".

No one spoke.

Chairperson Mah closed "Public Input".

CONSENT AGENDA

300. Approval of the Minutes from the Wednesday, February 5, 2020 Planning and Zoning Board/Local Planning Agency Regular Meeting

Chairperson Mah asked for a motion to approve the minutes of the February 5, 2020 Planning and Zoning Board/Local Planning Agency Regular Meeting.

"MOTION TO APPROVE." MOTION BY VICE-CHAIRPERSON McCANN. SECONDED BY BOARD MEMBER PHILLIPS. DISCUSSION.

VOTE:

VICE-CHAIRPERSON McCANN: AYE BOARD MEMBER FERRANTE: AYE CHAIRPERSON MAH: AYE BOARD MEMBER PHILLIPS: AYE

BOARD MEMBER EVANS: AYE

MOTION CARRIED.

PUBLIC HEARINGS AGENDA

400. Ordinance 2020-02 amending Chapter 20 Zoning related Town Center District Code along with State Road 434 and Tuskawilla road corridors.

Christopher Schmidt introduced Ordinance 2020-02 and discussion followed on proposed changes to setbacks, building heights, frontage requirements, and lot design guidelines.

Chairperson Mah opened the Public Hearing for Item 400

No one spoke.

CITY OF WINTER SPRINGS, FLORIDA MINUTES

PLANNING AND ZONING BOARD/LOCAL PLANNING AGENCY REGULAR MEETING – APRIL 1, 2020

PAGE 3 OF 3

Chairperson Mah closed the Public Hearing from Item 400

"MOTION TO APPROVE THE ORDINANCE BEFORE US, NUMBER 400 IN TODAY'S AGENDA." MOTION BY VICE-CHAIRPERSON McCANN. SECONDED BY CHAIRPERSON MAH. DISCUSSION.

VOTE: CHAIRPERSON MAH: AYE BOARD MEMBER PHILLIPS: AYE BOARD MEMBER EVANS: AYE VICE-CHAIRPERSON McCANN: AYE BOARD MEMBER FERRANTE: AYE MOTION CARRIED.
REGULAR AGENDA
500. Not Used
REPORTS
No reports were given.
ADJOURNMENT
Chairperson Mah adjourned the Regular Meeting at 6:01p.m.
RESPECTFULLY SUBMITTED:
CHRISTIAN GOWAN INTERIM CITY CLERK

NOTE: These Minutes were approved at the ______, 2020 Planning and Zoning Board/Local Planning Agency Regular Meeting.



TITLE

Accessory Dwelling Unit – Cale Matthews and Jade Matthews

SUMMARY

The Community Development Department requests that the Planning and Zoning Board/Local Planning Agency hold a Public Hearing to consider a Conditional Use Permit for a 485 square foot (SF) Accessory Dwelling Unit (ADU).

General Inform	nation			
Applicant(s)	Cale Matthews and Jade Matthews			
Property Owner(s)	Cale Matthews and Jade Matthews			
Location	1208 Howell Creek Drive, Winter Springs, FL 32708			
Tract Size	± .41 Acres (17,859 SF)			
Parcel ID Number	12-21-30-5DA-0000-5070			
Zoning	Winter Springs Planned Unit Development (PUD)			
Designation	Subdivision Winter Springs Unit 4			
FLUM Designation	Low Density Residential Density up to 1 du/gross acre			
Adjacent	North: Winter Springs (PUD)		South: Winter Springs (PUD)	
Land Use	East: Winter Springs (PUD)		West: Winter Springs (PUD)	
Setbacks	Front: 35 ft.	Rear: 10 ft.	Side: 10 ft.	Corner: 25 ft.
Development Standards	Minimum Living Area: 2,000 SF	Minimum Lot Area: 40,000 SF	Minimum Lot Width: 100 ft.	Lot Coverage: 40%
Development Agreement	Declaration of Restrictions Pending			
Code Enforcement	Not Applicable			
City Liens	Not Applicable			

Request:

The Community Development Department received a Conditional Use Permit application to construct a detached one-story Accessory Dwelling Unit (ADU). The applicants/owners are proposing to build a detached 485 SF ADU with one bedroom, one bathroom, and a full kitchen.

Background:

The subject property is a lot of record located at 1208 Howell Creek Drive, Winter Springs, Florida 32807. According to the Seminole County Property Appraiser's website, the residence was built in 1973, and the home has four bedrooms and two bathrooms. The cumulative square footage of the principal structure is 2,745 SF (2,152 SF living). The principal structure is constructed with concrete block with a stucco finish. The residence is located in the Winter Springs Unit 4 subdivision. The applicant stated that the subject property is not in a mandatory homeowner's association and there are no mandatory Homeowner's Association (HOA) covenants on the property. Notices were mailed to all owners of real property adjacent to and within approximately five-hundred feet (500) of the subject property and all Homeowner's Associations on file with the City Winter Springs (141 notices).

Accessory Dwelling Unit Requirement:

An Accessory Dwelling Unit is ancillary or a secondary dwelling unit that is clearly subordinate to the principal dwelling and provides complete independent living facilities for one (1) or more persons, which includes provisions for living, sleeping, eating, cooking, and sanitation. An ADU is located on the same parcel or lot as the principal residence and shall be subject to the required setbacks of the principal structure and may be either attached to or detached from the principal dwelling. Accessory dwelling units (ADU's) must conform to the standards as outlined below.

Acc	essory Dwelling Unit criteria set forth in <u>Sec. 6-85</u> are as follows:
a.	Zoning district. A property owner may request a conditional use approval to allow one (1) accessory dwelling unit in any of the following zoning districts:
	R-1AAA Single-Family Dwelling District
	R-CI Single-Family Dwelling District
	R-1AA and R-1A One-Family Dwelling District
	R-1 One-Family Dwelling District
	Planned Unit Development District
b.	Existing development on lot. A single-family dwelling shall exist on the lot or will be constructed in conjunction with the ADU.
C.	Location. The ADU may be attached to or detached from the principal dwelling.
d.	Owner occupancy required; declaration of restrictions. The property owner shall occupy either the principal structure or the ADU. Prior to the issuance of a building permit for construction of an ADU, an applicant shall record in the public records of Seminole County a declaration of restrictions containing a reference to the legal description of the property and the deed under which the property was conveyed to the present owner stating that:
	 The ADU shall not be sold or conveyed separate from the principal residence;
	2. The ADU is restricted to the approved size;
	 The use permit for the ADU shall be in effect only so long as either the principal residence or the ADU is occupied by the owner of record as their principal residence;

4. The declarations shall run with the land, shall be binding upon any successor in ownership of the property and that noncompliance shall be cause for code enforcement and/or revocation of the conditional use permit; 5. The deed restrictions shall only be removed with the express, written approval of the city, but shall lapse upon removal of the accessory unit; 6. The ADU shall not be used for commercial purposes other than being leased for residential purposes. Number of ADU's per lot or parcel. Only one (1) ADU shall be allowed for each e. lot or parcel. f. Setbacks. The ADU shall meet the front, side and rear yard regulations for the zoning district in which it is located. Building height and stories. The ADU shall meet the building height g. regulations for the zoning district in which it is located. h. Lot coverage. The sum of the principal dwelling and the ADU shall meet the lot coverage regulations for the zoning district in which they are located. i. Parking and access. A minimum of one (1) parking space shall be provided onsite for the ADU in addition to the required off-street parking spaces required for the principal residence. The ADU shall be served by the same driveway as the principal dwelling. Water and wastewater services. An ADU is required to connect to the central į. water and sewer system where available. An ADU may be separately metered for utilities subject to all applicable ordinances and utility policies. Where central water and sewer service is not available, the septic system and well shall meet the capacity requirements. Other code requirements. The ADU shall comply with all applicable building k. codes. Ι. Lot size, minimum; principal residence minimum. A minimum lot size of six thousand six hundred (6,600) square feet is required and the principal residence shall be a minimum of one thousand three hundred fifty (1,350) square feet of air conditioned area. Unit size. The living area of the ADU shall be a maximum of thirty (30) percent m. of the air conditioned area of the principal residence or eight hundred (800) square feet, whichever is less. However, the ADU shall contain no less than four hundred (400) square feet of air conditioned area. ADUs that utilize alternative green construction methods that cause the exterior wall thickness to be greater than normal shall have the unit square footage size measured similar to the interior square footage of a traditional frame house. Design. The ADU shall replicate the design of the principal dwelling by use of n. similar exterior wall materials, window types, door and window trims, roofing materials and roof pitch. The design is subject to the minimum community appearance and aesthetic review standards to ensure residential compatibility and harmony (see section 9-600 et. seq.).

- o. Privacy. Privacy and screening of adjacent properties is of utmost importance in the orientation of the ADU. Entrance and windows of the ADU shall face the interior of the lot and/or public street as much as possible. Windows which do face the adjoining property shall be designed to protect the privacy of neighbors. Landscaping shall be used to further provide for the privacy and screening of adjacent properties.
- p. Expiration. As with all conditional use approvals, if a building permit has not been issued within two (2) years for the ADU, the approval becomes null and void (see section 20-36).
- q. Approval process. The conditional use/aesthetic review approval of an ADU is subject to a public hearing. A notice will be sent to all property owners within one hundred fifty (150) feet of the subject property. An ADU will not be approved if prohibited by the declarations, covenants, conditions and restrictions of a homeowners' association. The city commission may impose reasonable conditions of approval to the extent deemed necessary and relevant to ensure compliance with applicable criteria and other applicable provisions of the city code and comprehensive plan (see section 20-27 and section 20-33).

In evaluation of the standards outlined above, the applicant's request is in harmony with the applicable standards. The location of the proposed structure meets minimal setback requirements and lot coverage. The 485 square foot structure is 22.5% of the primary structure (2152 square feet), with shared parking and driveway access with the principle structure. The aesthetics of the unit is in harmony with the principal structure.

Conditional Use Requirement:

All conditional use recommendations and final decisions shall be based on the following criteria to the extent applicable:

Conditional uses criteria set forth in <u>subsection 20-33(d)</u> are as follows:

1. Whether the applicant has demonstrated the conditional use, including its proposed density, height, scale and intensity, hours of operation, building and lighting design, setbacks, buffers, noise, refuse, odor, particulates, smoke, fumes and other emissions, parking and traffic-generating characteristics, number of persons anticipated using, residing or working under the conditional use, and other offsite impacts, is compatible and harmonious with adjacent land uses, and will not adversely impact land use activities in the immediate vicinity.

- 2. Whether the applicant has demonstrated the size and shape of the site, the proposed access and internal circulation, and the design enhancements to be adequate to accommodate the proposed density, scale and intensity of the conditional use requested. The site shall be of sufficient size to accommodate design amenities such as screening, buffers, landscaping, open space, off-street parking, safe and convenient automobile, bicycle, and pedestrian mobility at the site, and other similar site plan improvements needed to mitigate against potential adverse impacts of the proposed use.
- 3. Whether the proposed use will have an adverse impact on the local economy, including governmental fiscal impact, employment, and property values.
- 4. Whether the proposed use will have an adverse impact on the natural environment, including air, water, and noise pollution, vegetation and wildlife, open space, noxious and desirable vegetation, and flood hazards.
- 5. Whether the proposed use will have an adverse impact on historic, scenic, and cultural resources, including views and vistas, and loss or degradation of cultural and historic resources.
- 6. Whether the proposed use will have an adverse impact on public services, including water, sewer, stormwater and surface water management, police, fire, parks and recreation, streets, public transportation, marina and waterways, and bicycle and pedestrian facilities.
- 7. Whether the traffic report and plan provided by the applicant details safe and efficient means of ingress and egress into and out of the neighborhood and adequately address the impact of projected traffic on the immediate and neighborhood, traffic circulation pattern for the neighborhood, and traffic flow through immediate intersections and arterials.
- 8. Whether the proposed use will have an adverse impact on housing and social conditions, including variety of housing unit types and prices, and neighborhood quality.
- 9. Whether the proposed use avoids significant adverse odor, emission, noise, glare, and vibration impacts on adjacent lands regarding refuse collection, service, parking and loading signs, lighting, and other sire elements.
- 10. Whether the applicant has provided an acceptable security plan for the proposed establishment that addresses the safety and security needs of the establishment and its users and employees and minimizes impacts on the neighborhood, if applicable.
- 11. Whether the applicant provided an acceptable plan for the mass delivery of merchandise for new large footprint buildings (greater than 20,000 square feet) including the hours of operation for delivery trucks to come into and exit the property and surrounding neighborhood, if applicable.

- 12. Whether the applicant has demonstrated that the conditional use and associated site plan have been designed to incorporate mitigative techniques and plans needed to prevent adverse impacts addressed in the criteria stated herein or to adjacent and surrounding uses and properties.
- 13. If the proposed conditional use is a residential use, whether the elementary, middle and high schools (K- 12) that will be initially assigned to the residential project by the School District at the time the city commission considers final approval of the conditional use have both sufficient capacity, are in close proximity to the project so as to make each of the assigned schools accessible and convenient (e. g., walking distance travel time, private and public transportation, and quality of route environment) to the majority of the school population that will be drawn from the project, and promote and support the integration of future residents of the project into the existing city of Winter Springs community in a sustainable manner.
- 14. Whether the applicant has agreed to execute a binding development agreement required by city to incorporate the terms and conditions of approval deemed necessary by the city commission including, but not limited to, any mitigative techniques and plans required by city code.

In evaluation of the proposed conditional use request, it appears that the request satisfies all fourteen (14) specific criteria as required for a Conditional Use in the City Code of Ordinances. The request to allow a Conditional Use Permit conforms to the requirements as listed. The applicant has demonstrated the conditional use, including its proposed height scale and design. The proposed site will not have an adverse impact as indicated in Subsection 20-33(d) items 3-9. The applicant has agreed to the execution of a declaration of restrictions as indicated in Sec. 6-85 (d).

Procedural History:	
December 4, 2019	Conditional Use Applications Submittal

Applicable Law, Public Policy, and Events:

Home Rule Powers

City of Winter Springs Comprehensive Plan

City of Winter Springs Code of Ordinances

Ch6, Sec. 6-85. Accessory Dwelling Units.

Ch9, Sec. 9-277 (2). Off-street parking requirements.

Ch9, Sec. 9-607. Residential compatibility and harmony regulations.

Ch20, Sec. 20-1. Definitions.

Ch20, Sec. 20-33. Conditional Uses.

Ch20, Sec. 20-353. Standards for planned unit developments.

Future Land Use Element, Policy 1.1.6

Housing Element, Policy 1.4.6

Housing Element, Policy 2.4.7

Fiscal Impact:

Development of the subject property is anticipated to provide an increase to the City's taxable value. The potential tax revenue of the proposed project will be dependent on the change in tax-assessed value as determined by the Seminole County Property Appraiser.

Communication Efforts:

The Meeting Agenda and this Agenda Item have been forwarded to the Planning and Zoning Board / Local Planning Agency members and are available on the City's Website, LaserFiche, and the City's Server. The Agenda has been forwarded to the Mayor and City Commission; City Manager; and City Attorney/Staff. Additionally, the Meeting Agenda has been sent to media/press representatives, all Homeowner's Associations on file with the City, all owners of real property adjacent to and within approximately five hundred feet of the subject property (141 notices mailed), all individuals who have requested Agenda information, Department Directors; and also posted outside City Hall; posted inside City Hall with additional copies available for the general public.

Staff Recommendation:

Staff recommends that the Planning and Zoning Board/Local Planning Agency forward a recommendation of approval to the City Commission for the Conditional Use. The applicant has presented an accessory dwelling unit that is clearly subordinate to the principal dwelling. The location meets the required setback requirements and conforms to all applicable standards.

Attachments:

Exhibit 1 – Vicinity and Aerial Maps

Exhibit 2 – Conditional Use Application (December 4, 2019)

Exhibit 3 – Plans (Survey, Elevations, Floor Plans)

Exhibit 4 – Color Renderings

Project Site

1208 Howell Creek Drive, Winter Springs, FL 32708 Parcel ID# 12-21-30-5DA-0000-5070



Exhibit 2 - Conditional Use Application well Creek Drive, Winter Springs, FL



CITY OF WINTER SPRINGS

COMMUNITY DEVELOPMENT DEPARTMENT
1126 STATE ROAD 434
WINTER SPRINGS. FL 32708

407-327-5966

FAX:407-327-6695

* matthews Permit

APPLICATION FOR CONDITIONAL USE PERMIT FOR AN ACCESSORY DWELLING UNIT

What is an Accessory dwelling unit (ADU)?

An ADU is an ancillary or secondary dwelling unit that is clearly subordinate to the principal dwelling, which has a separate egress/ingress independent from the principal dwelling, and which provides complete independent living facilities for one (1) or more persons and which includes provisions for living, sleeping, eating, cooking, and sanitation. It is located on the same parcel or lot as the principal dwelling and shall be subject to the required setbacks of the principal structure and may be either attached to or detached from the principal dwelling. (See Sec. 6-85, Accessory Dwelling Units).

What is the Approval Process for an ADU?

Two public hearings are held, one at a Planning and Zoning Board meeting and the other at a City Commission meeting. Meetings are noticed to all property owners within 150 feet of the subject property. An ADU will NOT be approved if prohibited by the declarations, covenants, conditions and restrictions of a homeowners' association.

The CITY COMMISSION shall render all final decisions regarding the conditional use request and may impose reasonable conditions on any approved conditional use to the extent deemed necessary and relevant to ensure compliance with applicable criteria and other applicable provisions of the City Code and Comprehensive Plan. All formal decisions shall be based on competent substantial evidence and the applicable criteria as set forth in Sec. 20-33(d) and Sec. 6-85. APPLICANTS shall be afforded minimal due process as required by law, including the right to receive notice, be heard, present evidence, cross-examine witnesses, and be represented by a duly authorized representative. APPLICANTS are advised that if, they decide to appeal any decisions made at the meetings or hearings with respect to any matter considered at the meetings or hearings, they will need a record of the proceedings and, for such purposes, they will need to ensure that a verbatim record of the proceedings is made, at their cost, which includes the testimony and evidence upon which the appeal is to be based, pursuant to Section 286,0105, F.S.

If the Conditional Use approval is granted, PRIOR to receiving a building permit, the APPLICANT must file a Declaration of Restrictions with the Seminole County Clerk of the Court public records containing a reference to the legal description of the property and the deed under which the property was conveyed to the present owner stating:

- The ADU shall not be sold or conveyed separate from the principal residence;
- 2. The ADU is restricted to the approved size;
- 3. The use permit for the ADU shall be in effect only so long as either the principal residence or the ADU is occupied by the owner of record as their principal residence;
- 4. The declarations shall run with the land, shall be binding upon any successor in ownership of the property and that noncompliance shall be cause for code enforcement and/or revocation of the conditional use permit;
- 5. The deed restrictions shall only be removed with the express written approval of the City but shall lapse upon removal of the accessory unit; and
- 6. The ADU shall not be used for commercial purposes other than being leased for residential purposes.

As with all Conditional Use approvals, if a building permit has not been issued within two (2) years for the ADU, the approval becomes null and void, unless extended by action of the City Commission. If the building permit subsequently expires and the subject development project is abandoned or discontinued for a period of six months, the Conditional Use shall be deemed expired and null and void. (Sec 20-36.)

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INFORMATION				
APPLICANT:	Poole	Nathan	Mark	
MAILING ADDRESS:	1208 HDW	ell Creek Dr	ive	parameter and the second secon
W	inversioning	S FL	32708	
PHONE & EMAIL	209-862-81	453 State	@ mid-Southcond	ractors.com
If <u>Applicant</u> does NOT ow	n the property:	0010	^	
PROPERTY OWNER:	Matthews	First	Middle	
MAILING ADDRESS:	1208 How	ell Creek Dri	ve	
	Winter Sprir	State	32708 Zip Code	
PHONE & EMAIL	407-731-0	5167 calen	natthews@gm	ail Com
This request is for the rea			ve Winter Spring	ACI 32708
PROPERTY ADDRESS:	10 01 70	5DA - 0000-50	70	110,000
TAX PARCEL NUMBER			10	
Property's ZONING CLA	ASSIFICATION: P	30		
Is the Property subject to	Declarations, Covenants		of a Homeowners' Association	?
		Name of Homeowners Assoc		
If YES, is Verification the Application?	at the ADU has been Ap	proved by the Homeowners' A NO If NO, Do Not S	association included with this bubmit Application until Obtaine	રતે.
SIZE OF LOT/PARCEL/	PROPERTY:	Square Feet (Re	SF quired to be at least 6600 SF)	
SIZE OF RESIDENCE (Air Conditioned Area Or	nly): 2,152 Square Feet (Re	guired to be at least 1350 SF)	
SIZE OF PROPOSED A	DU (Air Conditioned Ar Least 400 SF; BUT Not lar)	rea Only): 48	•	is less)

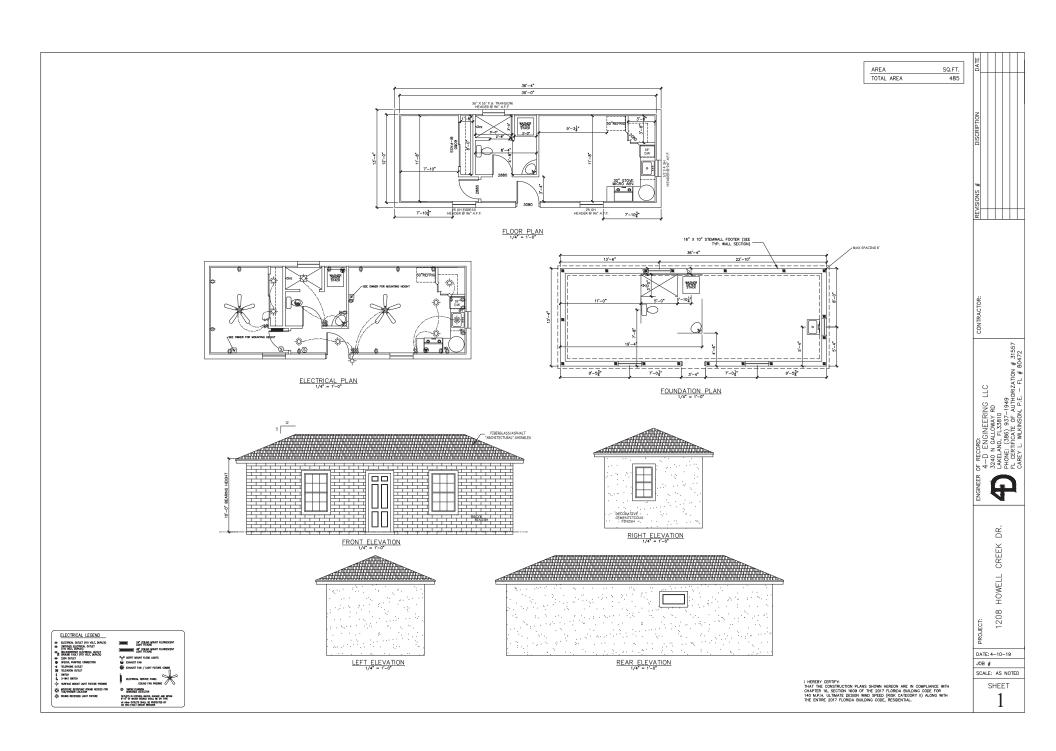
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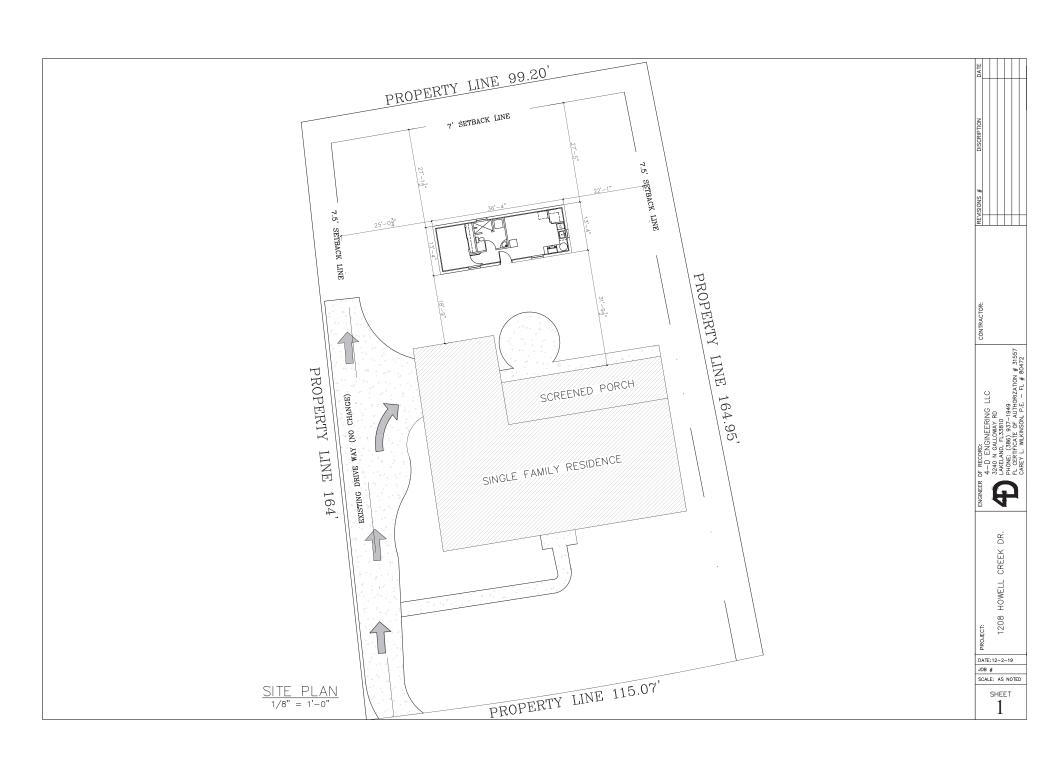
ADD CONDITIONAL USE PERMIT QUESTIONAIRE Code of Ordinances, Section 6-85 & 20-33(d):
1. Does a Single Family dwelling currently exist on the property OR Will a single family dwelling be constructed in conjunction with the ADU? \square YES \square NO
2. Is the proposed ADU attached to OR detached from the Principal Dwelling? □ ATTACHED □ DETACHED
3. Will the property owner occupy either the principal dwelling or the ADU? ✓ YES □ NO
4. Does the ADU meet the front, side and rear yard zoning regulations (setbacks)? ✓ YES □ NO
5. What is the proposed height of the ADU? 10'0" blanns height Does it meet the building height zoning regulations?
6. Does the sum of the principal dwelling and the ADU meet the zoning district's lot coverage regulations? ✓ YES NO
7. How many on-site parking spaces are provided? Has at least one (1) parking space been provided on-site for the ADU in addition to the required off-street parking spaces required for the principal residence? YES NO
8. Is the ADU served by the same driveway as the principal residence? ☐ YES ☐ NO
9. Does the design of the ADU replicate the design of the principal dwelling by use of similar exterior wall materials, window types, doors and window trims, roofing materials and roof pitch and is this illustrated in the submitted materials?
10. Is the orientation of the ADU such that it considers the privacy of the adjacent properties? ✓ YES □ NO
11. Does landscaping provide for the privacy and screening of adjacent properties from the ADU? YES
12. Are any existing trees required to be removed? (If yes; please specify number and size.)
13. Is the proposed scale and intensity, traffic generating characteristics, and offsite impacts of the ADU compatible and harmonious with adjacent land uses? ☐ YES ☐ NO
14. Is the size and shape of the property, the proposed access and internal circulation, and the design enhancements adequate to accommodate the scale and intensity of the ADU and design amenities such as screening, buffers, landscaping, open space off-street parking, and other similar site plan improvements needed to mitigate against potential adverse impacts of the proposed use?
□ YES □ NO
15. Will the ADU have an adverse impact on the local economy, including governmental fiscal impact, employment and property values? ☐ YES ☐ NO
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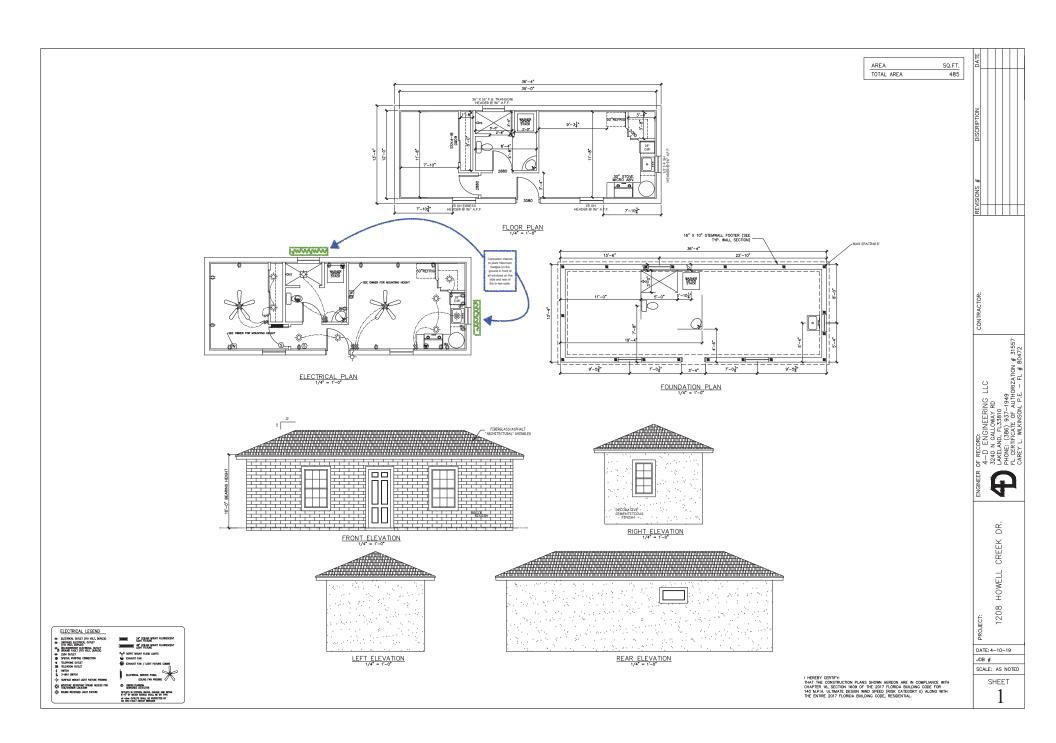
16. Will the ADU have an adverse impact on natural environment, including air, water, and noise pollution, vegetation and wildlife, open space, noxious and desirable vegetation, and flood hazards? □ YES □ NO
17. Will the ADU have an adverse impact on historic, scenic and cultural resources, including views and vistas, and loss or degradation of cultural and historic resources? PS NO
18. Will the ADU have an adverse impact on public services, including water, sewer, surface water management, police, fire, parks and recreation, streets, public transportation, marina and waterways, and bicycle and pedestrian facilities?
19. Will the ADU have an adverse impact on housing and social conditions, including types and prices, and neighborhood quality? ☐ YES ☐ NO
THE FOLLOWING ITEMS ARE TO BE SUPPLIED WITH THIS APPLICATION:
☐ A copy of the most recent SURVEY of the subject property; ✓
□ SITE PLAN illustrating location of buildings, vehicular circulation, and onsite parking;
☐ FLOOR PLAN of ADU with dimensions; ✓
☐ BUILDING ELEVATIONS (B&W) illustrating both Primary Residence and ADU from all sides; /
☐ IDENTIFICATION of MATERIALS, TEXTURES, & COLORS on both Primary Residence and ADU;
JUSTIFICATION for the Request: Provide documentation in support of the answers given on page 4; For example, how the size and shape of the site, the proposed access and internal circulation, and the design enhancements are adequate to accommodate the scale and intensity of the ADU;
 OTHER architectural and engineering data as may be requested to clarify the application;
☐ 11 x 17 MAP showing ADJACENT STREETS and PROPERTIES within 150' of the Subject Property;
NAMES and ADDRESSES of each property owner within 150 ft. of each property line; (Note: This information is available from the Seminole County Property Appraiser.)
☐ Verification OF HOMEOWNERS' ASSOCIATION APPROVAL (If Applicable);
□ Notarized AFFIDAVIT of the Applicant (see next page);
Notarized Authorization of the OWNER if the Applicant is not the Owner or Attorney for the Owner (see next page);
SUBMITTED DRAWINGS: For Staff review: For P&Z Board: For City Commission: Twelve (12) 11x17 copies, PLUS One (1) pdf electronic copy, then Twelve (10) 11x17 copies, PLUS One (1) pdf electronic copy, then Twenty-one (21) 11x17 copies, PLUS One (1) pdf electronic copy.
☐ APPLICATION FEE- CONDITIONAL USE Review and Consideration- \$ 500
FEES are as SHOWN plus ACTUAL COSTS incurred for ADVERTISING or NOTIFICATION, and for REIMBURSEMENT for TECHNICAL and/or PROFESSIONAL SERVICES which may be required in connection with the review, inspection or approval of any development (based on accounting submitted by the City's Consultant), payable prior to approval of the pertinent stage of development.
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*************************************	本本者:本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本
APPLI	CANT'S AFFIDAVIT
This is to certify that I am the APPLICANT for the and that ALL THE INFORMATION IS ACCURA	c Conditional Use Request described within this Application TE.
By submitting this application I hereby grant tempore property for purposes of evaluating this application	prary right of entry for City officials to enter upon the subject i.
Signature of APPLICANT	
Swom to and subscribed before me this day of 20	Notary Public My Commission expires:
Personally Known Produced Identification: (Type) Did take an Oath Did Not take an Oath	

IF APPLICANT IS NOT OWN	IER OF THE SUBJECT REAL PROPERTY
I, Call mathews (Property OWNER)	do hereby, with my notarized signature, allow
(APPLICANT)	to represent me in this Application related to my
property identified as: Tax Parcel Number(s) 12	-21-30-5DA-0000-5070
Located at 1268 Howell Creek	Drive, Winter Springs, FL 3:2708
Signature of OWNER(S)	
Sworn to and subscribed before me this	Notary Public My Commission expires: March 28, 2022
Personally Known Produced ID: (Type) Did take an Oath Did Not take an Oath	ANDREAM, BROSSEAU MY COMMISSION # GG 201622 EXPIRES: March 28, 2022
AA.	Bonded Thru Notary Public Underwillers











TITLE

Review of Ordinance 2020-03 Amending Chapter 5 of the City Code regarding tree protection and preservation; providing conforming amendments to other provisions of the City Code consistent with chapter 5; providing for the repeal of prior inconsistent ordinances and resolutions; incorporation into the code; severability and an effective date.

SUMMARY

During the City Commission workshop process, the City Commission directed the City Attorney and staff to prepare an Ordinance to update Chapter 20 with regards to the Town Center Zoning District and the SR434 and Tuskawilla Road corridors. That Ordinance was approved on April 27th, 2020. The changes from that Ordinance and with recent State Statutes, required Chapter 5, Tree and Preservation, updating to be consistent with the Chapter 20 updates and the State Statute. These changes also included reviewing and updating the tree species tables and general protection standards.

The proposed Ordinance was prepared at the City Commission's direction.

The proposed Ordinance will require several publicly noticed and advertised public hearings including one hearing before the City's Land Planning Agency and two hearings before the City Commission.

At the May 11, 2020 City Commission hearing, the first reading was completed and the Commission recommended review to the City's Land Planning Agency. The seconding reading of the attached Ordinance is tentatively scheduled for the July 13, 2020 City Commission Meeting.

RECOMMENDATION

Staff recommends the Planning and Zoning Board forward a recommendation of approval of Ordinance 2020-03 to the City Commission.

ORDINANCE NO. 2020-03

DRAFT: 5/6/20

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF WINTER SPRINGS, FLORIDA; AMENDING CHAPTER 5 OF THE CITY CODE REGARDING TREE **PROTECTION** PRESERVATION; PROVIDING CONFORMING AMENDMENTS TO OTHER PROVISIONS OF THE CITY CODE CONSISTENT WITH CHAPTER 5; PROVIDING FOR THE REPEAL OF PRIOR INCONSISTENT **ORDINANCES** AND **RESOLUTIONS:** INCORPORATION INTO THE CODE; SEVERABILITY AND AN EFFECTIVE DATE.

WHEREAS, the City is granted the authority, under Section 2(b), Article VIII, of the State Constitution, to exercise any power for municipal purposes, except when expressly prohibited by law; and

WHEREAS, the City Commission finds that trees benefit the City by decreasing urban noise and air pollution, conserving energy, minimizing flooding, providing food and cover for beneficial urban wildlife and providing value and stability to business and residential neighborhoods; and

WHEREAS, the establishment of policies, regulations and standards are necessary to ensure that the City continues to realize the benefits provided by its urban forest as recognized as "Tree City USA" by the Florida Department of Urban Forestry; and

WHEREAS, the City's Land Planning Agency considered and approved amendments to the Tree Protection and Preservation Ordinance which will update and improve said Ordinance; and

WHEREAS, the City Commission of the City of Winter Springs, Florida, hereby finds this Ordinance to be in the best interests of the public health, safety, and welfare of the citizens of Winter Springs

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF WINTER SPRINGS, SEMINOLE COUNTY, FLORIDA, AS FOLLOWS:

<u>Section 1.</u> Recitals. The foregoing recitals are hereby fully incorporated herein by this reference as legislative findings and the intent and purpose of the City Commission of the City of Winter Springs.

Section 2. Code Amendment. Chapter 5, Tree Protection and Preservation, of the City Code is hereby amended to read as follows: (underlined type indicates additions to the City Code and strikeout type indicates deletions, while asterisks (* * *) indicate a deletion from this Ordinance of text existing in Chapter 5. It is intended that the text in Chapter 5 denoted by the asterisks and set forth in this Ordinance shall remain unchanged from the language existing prior to adoption of this Ordinance):

CHAPTER 5 – TREE PROTECTION AND PRESERVATION

Sec. 5-1. - Applicability.

This chapter shall be applicable to all land lying in the incorporated area of the City of Winter Springs, Florida and within all zoning districts. To the extent that any provision of this chapter conflicts with any other provision of the city code related expressly to the protection and management of trees, the conflicting provisions of this chapter shall prevail and be given effect over the other conflicting provision.

Sec. 5-2. - Intent and purpose.

- (a) <u>Intent and Purpose</u>. The <u>intent and purpose</u> of this chapter is to establish <u>uniform</u> protective <u>and management regulations</u> for trees <u>and land clearing within the city in order to maintain and protect the <u>environment including the city forest.</u>, <u>Trees are a valuable community resource that serve to better control problems of flooding, <u>promote soil conservation, improve air and water quality, pollution and reduce noise and glare, provide habitat for wildlife, moderate the climate, and to make the city a healthier, more attractive and safer place in which to live. <u>Additionally</u>,</u></u></u>
- (b) Intent. The intent of this chapter is intended to encourage the protection of the maximum number of trees within the primary tree protection zone and of large specimen trees within the secondary tree protection zone. It is further the intent of this chapter to encourage the protection of desirable trees native to Central Florida and to encourage proper removal of exotic, pest trees.

To this end, it shall be unlawful to cut down, damage, poison, or in any other manner destroy or cause to be destroyed any tree or other vegetation or engage in unpermitted land clearing as covered by the provisions of this chapter except in accordance with the provisions set forth herein. Notwithstanding, in case of emergencies involving natural disaster such as, but not limited to, flood, freeze or other natural disasters, the requirements of this chapter may be temporarily waived by the city commission by resolution.

Sec. 5-3. - Definitions.

As used in this chapter, the following terms shall have the meanings indicated unless the context clearly indicates otherwise:

- (a) Caliper. Measurement of tree twelve (12) inches from soil level.
 - City Manager. The city manager or designee.

Canopy Tree. A species of tree that naturally develops with an elevated shade crown and which normally grows to a mature height of approximately forty (40) feet or more and/or a shade crown of approximately 30 feet in diameter or more. Such species shall be listed on the Desirable Species list in Appendix B or Appendix C for Approved Streetscape Canopy Tree Types for

streetscape trees along S.R. 434 and Tuskawilla Road, and include, but are not limited to, bald cypress, Chinese elm, Florida elm, live oak, pignut hickory, red maple, sand live oak, southern magnolia, sweetbay, sweetgum, sycamore, water oak and winged elm.

(b) City. The City of Winter Springs, Florida.

<u>City trees</u> shall mean all street trees located along a public right-of-way; streetscape trees under chapter 20, article VII of the city code; park and Cross Seminole Trail trees; and trees required to be preserved for the public benefit by development agreement, conservation easement or landscape easement in favor of the city and approved by the city commission.

- (e) City forest. The aggregate of all city trees which are planted in public places authorized and required to be managed by the City street trees and all park trees.
- (d) Crown. The mass of branches, twigs and leaves at the top of a tree, with particular reference to its shape.

Destroy or Destroyed. To cause, suffer, allow or permit any act that will effectively cause a tree to die or go into a period of unnatural decline within one year from the date of the act. Acts that may effectively destroy a tree include, but are not limited to, excessive pruning, changing the natural grade above the root system or around the trunk, damage inflicted on the tree permitting infection or pest infestation, application of herbicides or other chemical agents, intentional fire damage to the tree permitting infection or pest infestation, the infliction of a trunk wound or wounds that cumulatively are 20 percent or greater of the circumference of the trunk, or the removal of sufficient canopy to cause the unnatural decline of the tree.

- (e) DBH. Diameter at breast height measured four and one-half (4½) feet from ground level at the base of tree. If a tree has co-dominant stems at or below four and one-half (4½) feet from ground level, it shall be measured as two (2) separate trees.
- (f) Desirable trees. Trees that are preferred by the city and particularly adaptive to Central Florida identified as "desirable trees" in Appendix B of this chapter, as may be amended by the city manager or city commission.
- (g) Dripline. The vertical line running through the outermost portion of the tree crown extending to the ground.
- (h) Encroachment. The protrusion into a vehicular accessway access way, pedestrian-way, or required landscape area.
- (i) Heavy machinery. Mechanical land clearing, earth-moving, or earth-working equipment with a gross weight in excess of five thousand (5,000) pounds. For purposes of this chapter, all machinery which utilizes steel tracks for traction shall be considered to be heavy machinery, regardless of weight.
- (j) Historic tree. A specimen tree which has been found by the city commission to be of notable historic interest to the city based on its age, species, size, historic association, ecological value (such as a tree regularly and historically used as an eagles nest) or unique characteristics. A historic tree may also be known as an heirloom tree or heritage tree.

- (k) Land clearing (grubbing). The disturbance or removal of vegetation using backhoes, bulldozers, root rakes, or similar mechanical means which may kill trees or damage their roots, branches, or trunks The act of removing or destroying trees, ground cover, and other vegetation by manual, mechanical, or chemical means. Routine lawn mowing, sod replacement, planting of landscape material, shrub pruning, and shrub removal shall not be considered land clearing and grubbing provided no grade change occurs. Removal of understory by bush hog, forestry mulcher, or other means shall not be considered routine mowing when preparing a property for construction or results in trees being removed, destroyed or severely damaged.
- (1) Person. Any individual, firm, corporation, partnership, joint venture association, principal, trustee, municipal corporation, political subdivision, or special district, or any agent or representative thereof.
- (m) Preferred Plant/Tree. Preferred plants shall mean the plant materials listed in Appendix B: Desirable Trees and shall be of the size specified in the column labeled "Preferred Plant Size/Minimum Height," which may be amended from time to time by the city manager in writing.
- (n) Primary tree protection zone. This shall mean the front, side and rear yard areas as established and required by the Land Development Code of the city as the same may, from time to time, be amended.
- (o) Protected area. An area surrounding a protected, historic, or specimen tree within which physical intrusion is prohibited in order to prevent damage to the tree, roots and soil around the tree base, the dimensions of which shall be established by the city and set forth in the tree removal permit, in according with section 5-14.
- (p) Protective barrier. Shall be a polygon of 2" × 4" wide stakes spaced a maximum of eight (8) feet from each other at the perimeter of the tree protection zone and which extend out of the ground at least thirty-six (36) inches, with the top four (4) inches marked by flourescent fluorescent orange paint or tape or such other appropriate barrier to protect protected trees and landscape areas on a site specific basis which is authorized by development permit.
- (q) Replacement trees. Replacement trees shall at a minimum comply with the provisions of subsection 5-9.
- (r) Secondary tree protection zone. This shall mean all areas not included in the primary tree protection zone. Subdivision street rights-of-way and easements are also defined as being within the secondary tree protection zone.
- (s) Silviculture. A process, following acceptable forest management principles, whereby the crops constituting forests are tended, harvested and reproduced.
- (t) Specimen tree. A <u>canopy</u> tree, other than <u>an undesirable tree</u>, <u>a</u> structurally unsound tree that cannot be recovered by pruning, dead tree, or diseased tree, that has a DBH of twenty-four (24) inches or more. Specimen trees shall not include laurel oak (Quercus laurifolia), sand pine (Pinus clausa), cherry laurel (Prunus caroliniana) or any tree found on the Florida Exotic Pest Plant Council's Invasive Plant Species List.

- (u) Stem. The main trunk of a plant; its primary axis that develops buds and shoots instead of roots.
- (v) Structure. Anything constructed, erected or placed, the use of which requires more or less permanent location on or in the ground or attached to something having a permanent location on or in the ground. This definition shall not include sidewalks, walkways, driveways or similar type improvements.
- (w) Transplant. The act of relocating an existing tree upon the same lot or such other appropriate location approved by the city.
- (x) Tree. Self-supporting woody, perennial plants which <u>has or can</u> have a trunk with a <u>mature</u> DBH of at least four (4) inches and normally grow to an overall crown height of a minimum of fifteen (15) feet. Cabbage palm greater than fifteen (15) feet tall.
- (y) Tree protection zone. Shall mean that area located around the perimeter of the tree in which no activity such as clearing, filling, excavating, storage of materials, parking of vehicles, or any other activity that in the opinion of the city arborist may damage the tree may occur. The tree protection zone shall extend from the trunk of the tree to the dripline. This zone is calculated according to Appendix C to this chapter.
- (z) Tree removal. Shall mean any act which will cause a tree situated on real property to die within a period of two (2) years from the time of the act including, but not limited to, by cutting, girdling, relocating, interfering with the water supply, applying chemicals, regrading around the base of the tree trunk.
- (aa) Tree replacement assessment. Tree replacement assessment shall mean the total amount of monetary compensation owed to the City of Winter Springs may be required by this chapter for the replacement of trees cut, destroyed, or removed as a result of development or redevelopment.
- (bb) Tree replacement credit. The tree replacement credit shall be established by the city commission and set forth in Appendix B: Desirable Trees.
- (ce) Tree trunk. The main stem of a tree apart from limbs and roots.
- (dd) Undesirable trees. All types of trees identified as "undesirable trees" in Appendix A of this chapter as amended from time to time by the city manager in writing.

<u>Windowing</u>. Removing several branches symmetrically within the area of the tree to provide a fully framed view of the scenery that lies beyond the tree.

Sec. 5-4. - Permit required for tree removal and land clearing; separate violations; criteria; contractor permit required.

(a) Permit required. Except as provided in Section 5-4.5 herein, No no person shall engage in tree removal or engage in land clearing located within the city, without first obtaining a permit as provided in this chapter. If a property owner has retained a contractor to perform the land clearing or tree removal, the contractor must have a valid <u>City issued</u> arbor license required by section 5-4(e) and shall be responsible for obtaining the permit required by this

- chapter prior to the land clearing or tree removal. It shall be a separate violation of this chapter for each tree removed and each day a person is engaged in land clearing without a permit.
- (b) <u>Trees that can be removed by permit.</u> Criteria. Upon receipt of a completed application and verification on-site by the city arborist, a permit may be issued for tree removal <u>if it is first determined by the city arborist that under any one of the following limited conditions exists to lawfully justify the tree removal:</u>
 - (1) Trees located on building and construction sites or projects as shown on city approved plans, provided said trees are replaced elsewhere on the property in accordance with section 5-9 of this chapter, except that city trees as defined in section 5-3 and historic and specimen trees under section 5-8 shall be preserved to the extent required by this chapter.
 - (2) Trees with a trunk(s) located within ten (10) feet of a structure and that pose a clear hazard or that have caused <u>significant</u> damage to said structure as determined by the city arborist.
 - (3) Trees severely diseased, severely injured or dead.
 - (4) Trees that interfere with the construction or repair of public infrastructure and facilities including utilities.
 - (5) Undesirable trees, per Appendix A.
 - (6) Trees <u>required to be removed</u> by the city or other governmental agency <u>to facilitate</u> necessary public utilities and infrastructure or remove visibility obstructions to vehicle <u>drivers within a intersection visibility triangle</u> and which are located within a public road, drainage rights-of-way, or permanent utilities and drainage easements.
 - (7) Trees that <u>pose a serious threat to persons or property have been approved by the city arborist and which shall be replaced elsewhere on the property.</u>
 - (8) Trees that prohibit or have the effect of prohibiting the installation or operation of a solar collector, clothesline, or other energy device based on a renewable resource.
 - (9) All trees and plants, within a licensed tree nursery, planted for harvest shall be exempt from the terms and provisions of this chapter only if trees are planted and growing on the premises of the licensee and are for sale or intended for sale in its ordinary course of business.
 - (10) One tree located on an existing single-family home lot within a 10-year period pursuant to section 5-9(e).
 - (11) Trees that unreasonably interfere with a property owner's established riparian or littoral rights or substantially interfere with and obstruct a substantial portion of a property owner's visibility to a natural water body such as a lake, but only to the extent such right or visibility cannot be secured by tree trimming, pruning or windowing.
- (c) Review guidance standards. To help guide the city in making decisions under this chapter, including identifying which trees listed under section 5-4(b) may be removed, the city shall consider that the spirit and intent of this chapter is to mitigate against the removal of trees

and weigh the following nonexclusive list of factors to the extent relevant and necessary: When making a determination on whether a tree meets one of the conditions set forth in section 5-4(b) and therefore, whether to approve or deny an application under this chapter, the city shall apply one (1) or more of the following standards of review deemed relevant:

- (1) Necessity to remove trees which pose a clear and obvious safety hazard to pedestrian or vehicular traffic or threaten to cause disruption to public services or a significant obstacle to accessing and utilizing public easements and rights-of-way.
- (2) Necessity to remove trees which pose a clear and obvious safety hazard to buildings and other improvements on a lot or parcel of land. Ordinary small cracks or uplifts in pavement, sidewalks, and non-occupied structures that are typically caused by settling and small roots shall not be considered a safety hazard.
- (3) Necessity to remove diseased trees or trees weakened by age, storm, fire or other injury or trees with severe structural defects that pose a clear and obvious safety hazard to people, buildings or other improvements on lot or parcel of land.
- (4) Necessity to remove trees which prohibit or have the effect of prohibiting the installation or operation of a solar collector, clothesline, or other energy device based on a renewable resource. The applicant shall submit operating instructions or other manufacturer guidance setting forth the amount of sunlight exposure required for proper operation of the energy device or other such evidence of the necessity to remove trees.
- (5) The extent to which tree removal is likely to result in damage to the property of other owners, public or private, including damage to lakes, ponds, streams, or rivers through runoff or erosion.
- (6) Any proposed landscaping including plans whereby the applicant has planted or will plant trees to replace those that are proposed to be cleared.
- (7) Topography of the land and the effect of tree removal on erosion, soil retention and the diversion or increased flow of surface water.
- (8) Good forestry practices, such as the number of healthy trees that a given parcel of land will reasonably support and the proven techniques that sustain healthy trees.
- (9) After first exploring whether reasonable alternative design plans are feasible, N necessity to remove trees in order to construct, approved and permitted improvements to allow economic enjoyment of the property, including:
 - a. Need for access <u>circulation</u> around the proposed structure <u>which are necessary to allow workers to safely utilize</u> for construction equipment (maximum of ten (10) feet).
 - b. Need for providing ingress and egress access to the construction site for use by construction equipment and short term storage of construction equipment and supplies. This ingress and egress should coincide with the ingress and egress approved by the final development permit. access to the building site for construction equipment.

- c. Essential grade changes that otherwise cannot be designed around to avoid tree removal.
- d. Need for locating street or road rights-of-way, utilities, drainage ways, as well as the need to provide reasonable use and property access.
- e. Need to gain reasonable vehicle or utility access when no other reasonable alternative exists.
- (10) The extent of any damage or demonstrated hardship which would result to the applicant from a denial of the requested permit.
- (11) The species and size of the trees proposed for removal.
- (12) The following factors shall also be considered:
 - a. Trees forming the current canopy.
 - b. Preservation of the next generation of trees.
- (13) Necessity to protect active nests of migratory birds, bird species listed as specifies of special concern, rate, threatened, or endangered by the Florida Fish and Wildlife Commission, or which a known breading area for a colony of birds.
- (14) Whenever necessity is a relevant factor in support of removing a tree, the following factors shall also be considered:
- a. The number of trees being preserved on the subject property.
- b. The extent that the proposed removal causes the least amount of damage to existing trees.
- c. The extent that the proposed removal results in the maximum amount of mitigation or replacement trees for each tree removed.
- (15) This chapter shall be interpreted so as not to cause a taking or an inordinate burden on a landowner in accordance with law.

The factors listed in this subsection (c) are for guidance purposes only, and do not constitute an independent basis for the granting of a tree removal or land clearing permit.

- (d) Silviculture exemption. All trees planted specifically for silvicultural purposes shall be exempt from the provisions of this chapter provided the property owner can provide documentation to the city evidencing that:
 - (1) The property is registered as a silvicultural site with the division of forestry; and
 - (2) Trees of typical harvestable size and type exist on the property which are capable of being harvested for income and that the property owner has, or intends to, generate income from the harvested trees.
- (e) Contractor <u>City issued license required; contractor obtaining permits</u>. Any person or entity engaged in the business of tree removal or pruning shall be licensed by the city on an annual basis. Licenses may be obtained from the city by completing an application prepared by the city and paying the required license fee. The license application shall contain at a minimum the name, address, and telephone number of the contractor and a copy of the

contractor's local business tax receipt, state license if required and proof of liability and workers' compensation insurance. As a condition of obtaining a license under this subsection, any previously unpaid penalties imposed by the City under section 5-18 shall be paid in full. It shall be unlawful for any person or entity to engage in the business of tree removal or pruning within the City of Winter Springs without a license required under this subsection. It shall also be unlawful for any such person or entity to fail to obtain a permit on behalf of a property owner pursuant to section 5-4(a) of this chapter.

<u>Sec. 5-4.5 – Exemption for tree removal activities authorized and preempted by state or federal law.</u>

Land clearing and tree removal activities authorized and preempted by state or federal law shall be exempt from Section 5-4, Permit Required. Land clearing and tree removal activities authorized and preempted by state or federal law include, but are not limited to:

(a) removal of trees on residential property which pose danger to persons or property in accordance with Section 163.045, Florida Statutes, for which no replacement trees will be required. Property owners removing trees pursuant to Section 163.045, Florida Statutes, shall obtain documentation from an arborist certified by the International Society of Arboriculture or a Florida licensed landscape architect prior to removal of the tree, which demonstrates that the tree is a danger to persons or property and which conforms to industry standards applicable to certified arborists and licensed landscaped architects. For purposes of this section, "residential property" shall be defined as property with a fully constructed single-family home or duplex used for residential purposes, except as provided in this section. The term "residential property" for purposes of this subsection does not include multi-family property; common areas owned by a homeowners or condominium association; vacant land zoned or designated residential or mixed use (e.g., mixed use, town center, and GID) on the City's official zoning map or future land use map; public rights-of-way; or land subject to particular landscaping, tree planting or preservation requirements pursuant to an executed development agreement, landscape easement granted to the City, or conservation easement.

(b) a right and responsibility granted to an electric utility to clear vegetation away from power lines in order to ensure the safe transmission of electricity to customers, as provided by Florida Statutes and Electric Tariff Rules including the preemption under Section 163.3209, Florida Statutes.

Sec. 5-5. - City arbor division.

(a) Establishment of office. There is hereby created within the department of community development, the arbor division. The community development director shall head this office and the city manager shall appoint one (1) or more employees of the department to act in the capacity of arborist for the city.

- (b) Scope of authority. The city arborist shall be charged with the responsibility and authority to review and oversee all activities within the city limits which involve tree removal, land clearing, or danger to and by any tree. Notwithstanding, the city arborist shall have absolutely no authority to vary any plans, permits, or agreements approved by the city commission.
- (c) Responsibilities. The role of the city arborist shall include, but not necessarily be limited to:
 - (1) Receiving and processing applications for tree removal, land clearing and other permits under this chapter.
 - (2) Inspection of all property subject to an application.
 - (3) Confirming all information provided by the applicant is correct and accurate.
 - (4) To approve or deny all permit applications <u>required by this chapter unless otherwise</u> expressly stated under this chapter.
 - (5) To issue cease and desist work orders upon persons in violations of this chapter for a maximum of two working days. Upon review of the violation by the city manager, the city manager may extend the cease and desist work order until the violation is brought into compliance and all resulting fines incurred as a result of the violation have been paid. The city manager's decision may be appealed to the city commission pursuant to section 5-16(b) of this chapter.
 - (6) To bring violators of this chapter before the code enforcement board or special magistrate.
 - (7) To issue code enforcement citations for any violation of this chapter.
 - (8) To augment the city's forest by the planting or approval of planting of additional trees on public property.
 - (9) To keep a permanent record of all historic or specimen trees designated by the city commission.
 - (10) To educate the public regarding this chapter and the importance of maintaining a city forest.
 - (11) <u>Provide professional guidance to the city manager regarding the maintenance of city trees under section 5-11, and Tto handle other related job duties assigned by the city manager.</u>
 - (12) To serve as a member of the staff development review committee.
 - (13) To educate city personnel responsible for tree removal, planting, pruning and landscape maintenance.
 - (14) To assist in implementing, and issue permits in furtherance of, any development agreement, plan, or permit approved by the city commission relating to landscaping and trees.

(15) To provide professional guidance to the city manager and city commission regarding their respective decision making under this chapter including, but not limited to, historic and specimen trees under section 5-8 of this chapter.

Sec. 5-6. - Permit application.

- (a) Filing application and payment of fees. An application for tree removal and land clearing shall be filed on official forms provided by the city's arborist. The applicant shall be required to pay a fee as may be established by resolution of the city commission, except that no fee shall be required for the removal of trees that (i) are dead, diseased, or suffer from severe structural defects, (ii) pose a clear and obvious safety hazard to structures and people, (iii) are removed for a public project sponsored and paid for by the city, or (iv) any tree found on the Florida Exotic Pest Plant Council's Invasive Plant Species List. If the applicant is not the property owner, then the applicant shall attach the written permission of the property owner to the application. All completed applications shall be returned to the arborist, along with the following:
 - (1) A tree inventory, for the <u>tree(s)</u> to be removed or the portion of the site to be developed, consisting of a scaled drawing of a scale of one (1) inch equals fifty (50) feet or less for undeveloped land or for developed single family residential land, a sketch approximately one (1) inch equals fifty (50) feet or less indicating:
 - a. Property boundaries.
 - b. The location of all individual trees including the tree's common or scientific name, and DBH of trees.
 - c. An indication of all trees proposed for removal.
 - d. Within the primary tree protection zone, a plan shall designate the trees to be retained and those proposed to be removed, relocated or replaced. Those trees proposed for removal, relocation or replacement shall also be identified by common or botanical name.
 - e. Within the secondary tree protection zone, a plan shall designate the trees to be retained, and those proposed to be removed.
 - f. The location of existing and proposed improvements, if any, including proposed additions to existing buildings, existing and proposed buildings, structures, impervious surfaces (e.g. pool decks, drives, parking areas), stormwater retention areas, utilities, and other such improvements.
 - g. A replacement plan indicating the means of compensating for the tree(s) to be removed including the species and size of any replacement tree(s).
 - h. Location of trees preserved for replacement credit.
 - i. If grade changes are proposed on the site, a grading plan drawn to scale shall be provided. In addition, a written statement shall be provided by a landscape architect or other competent professional indicating the probability of whether the grade

- change will result in the death of tree(s) intended to be preserved. Said statement shall immediately be brought to the attention of the city arborist at the time the application is filed and prominently attached to the front of the application.
- j. A protection plan describing how preserved tree(s) shall be preserved on the site and adjacent properties during construction, tree removal, and grading. <u>If</u> encroachments into a specimen tree, historic tree, or city tree required to be preserved, a plan, prepared by an ISA certified arborist, must be submitted with the permit application specifying the methods to be utilized to protect and preserve the tree(s). This plan must address protection of the root system, crown, and stems of the trees, a means of supplying water and essential elements to the root system, and the proposed location of the tree protection barriers.
- k. An aerial photograph showing the boundaries of the subject property and adjacent properties.
- (2) Valid reasons for the removal of trees.
- (3) The appropriate permit fees.
- (4) A copy of any recorded development agreement, conservation easement or city landscape easement recorded against the subject property.
- (b) *Time for application*. Applications for a tree removal or land clearing permit shall be made prior to removal or clearing; except that in the following cases, application shall be filed when indicated:
 - (1) All new subdivisions shall be required to submit an application for a tree removal or land clearing permit, at the time of initial submittal of the subdivision plan, to the city so that due consideration may be given to protection of trees during the subdivision design process. Each application for a tree removal permit shall be subject to review under the staff development review committee process.
 - (2) Any commercial, industrial, multi-family, mixed use or other use requiring <u>final</u> engineering and site plan approval under the city land development regulations shall be required to submit an application for a tree removal and land clearing permit at the time of site plan submittal so that due consideration may be given to the protection of trees during the site plan design process. Each application for a tree removal permit shall be subject to review under the staff development review committee process.
 - (3) All new single-family and duplex dwelling units shall be required to submit an application for a tree removal and land clearing permit at the time of application for a building permit; the tree inventory may be shown on the building permit plot plan.
- (c) Exempting portion of the tree survey. Upon request, the city arborist may permit an applicant to omit certain portions of the tree inventory required by section 5-6(a)(1) where compliance with the requirements set forth herein would be unnecessarily burdensome and the exempted portions are not needed for the city to evaluate the application such as in applications unrelated to the new development of buildings, structures or infrastructure on

- the subject land, limited only to the removal of one or more isolated and specific trees on already developed land and have no impact on protected city trees.
- (d) *Permit fee.* A nonreturnable permit fee to be established by resolution of the city commission shall be paid for purposes of processing the application, enforcing the provisions of this chapter, and inspecting the real property subject to the application.
- (e) Posting of permit. The permit must be posted upon the property and visible from the street to be valid.
- (f) City commission approved plans, permits, and agreements. All permits issued by the city arborist under this chapter shall be required to be consistent, and not in conflict, with any plans, permits, or development agreements approved by the city commission. All permits or portions thereof issued by the city arborist in conflict with any approval of the city commission shall be deemed null and void and the approval of the city commission shall remain in full force and effect.

Sec. 5-7. - Tree pruning standards.

- (a) Standards adopted. Trees intended for shade purposes shall be allowed to reach mature canopy spread and shall be pruned in accordance with the ANSI A 300 Part I Pruning standard and ANSI Z133.1 safety standard. Pruning should be performed with defined pruning objectives and according to a specific pruning plan to accomplish the objective including the minimum and/or maximum branch size to be removed.
- (b) *Unlawful pruning*. The pruning techniques described in section 5-10(i) of this chapter shall be deemed unlawful.

Sec. 5-8. - Specimen or historic trees.

- (a) Designation. Certain trees, herein referred to as "specimen" or "historic" trees, are of especially great concern to the public because of ecological value, of indigenous character, size, age or historic association. Determination that a tree is a historic tree shall be made by resolution of the city commission after a recommendation of the city's arborist, and the city arborist shall keep a permanent record of all trees so designated by the city commission. Specimen trees are all canopy trees (other than trees that are structurally defective or unsound that cannot be recovered by pruning, "undesirable trees" identified in Appendix A, dead trees or diseased trees) which have a DBH of twenty-four (24) inches or more. Designation as an historic tree may occur in any one of the following ways:
 - (1) An applicant property owner may request designation of an historic tree as part of any master plan, preliminary subdivision plat, or site plan application. To do so, the applicant property owner shall submit an expert evaluation by a landscape architect, horticulturalist, city forester, or other horticultural expert as part of the application.

- (2) A property owner may request such designation at any time. To do so, the property owner shall submit an expert <u>written</u> evaluation by a landscape architect, horticulturalist, city arborist or other horticultural expert, or alternatively, request that the city arborist conduct an expert evaluation at no cost to the property owner.
- (3) The city's arborist may recommend such designation <u>at any time including</u> as part of their review of any application for development, stating in writing their reasons for such designation, or may make such designation as part of an overall tree protection planning program for the city or portion thereof.
- (4) The City Commission may designate, at its sole discretion, a city tree, as defined in section 5-3, a historic tree *sua sponte*, or upon request of a Winter Springs resident, business owner or civic group.
- (4<u>5</u>) Historic tree designations shall be subject to approval by resolution of the city commission and the city commission may grant <u>double</u> tree replacement credits, upon granting an historic tree designation.
- (b) Removal. Notwithstanding any other provision of this chapter, specimen or historic trees (hereinafter under this subsection "specimen tree") shall not be removed except for extraordinary circumstances and hardships and only by final permit approved by the eity manager—city commission pursuant to section 5-6(b) after consideration of a written recommendation by the city arborist and department director and only after the applicant has provided such documentation, as may be required by the city, demonstrating that the applicant has engaged in good faith in the following sequence of actions, in the order shown below, to attempt to preserve, modify, and relocate the specimen tree:
 - (1) Preserve the existing specimen tree on site. The applicant shall make reasonable efforts to design proposed or existing improvements, including but not limited to the structure, driveway and utilities to accommodate the natural growth of the tree. The applicant shall be required to submit multiple alternate development plans, demonstrating that reasonable efforts to preserve the specimen tree have been made, prior to removal of the specimen tree being approved. The design may include and justify the consideration of any necessary variances or waivers under chapter 20 of the city code. The city may require root barriers as a mitigation measure to address future potential root damage concerns.
 - (2) Modify the existing specimen tree. The applicant shall make reasonable efforts to design proposed or existing improvements, including but not limited to, the structure, driveway, and utilities, to accommodate the existing specimen tree with modifications by root pruning or tree pruning that would not cause significant harm to the tree, as determined by an arborist certified by the International Society of Arboriculture, and preserve its well-being as determined under this chapter. The applicant shall be required to submit an opinion of a certified arborist and/or multiple alternate development plans, demonstrating that reasonable efforts to modify the specimen tree have been made, prior to removal of the specimen tree being approved. The design may include and justify the consideration of any necessary variances or waivers under chapter 20 of the city code. The city may require root barriers as a mitigation measure to address future potential root damage concerns.
 - (3) Relocate the existing specimen tree on-site. The applicant shall submit documentation from an arborist certified by the International Society of Arboriculture, which conforms to

industry standards and which includes an opinion regarding whether the specimen tree may be relocated on-site to a location that can accommodate the natural growth of the tree without significant harm to the tree. The relocation may include and justify the consideration of any necessary variances or waivers under chapter 20 of the city code. The city may require root barriers as a mitigation measure to address future potential root damage concerns.

- (4) Alternative Design and Removal. Before removal of the specimen tree may be approved, the applicant shall provide documentation that actions (1)(2) and (3) have been reasonably explored and are not feasible to preserve, modify, or relocate the existing specimen tree(s). Feasibility shall be determined by the city commission after evaluating the prepared alternate development plans and opinion of the certified arborist that the specimen tree(s) cannot reasonably be preserved, modified, or relocated. The alternative development plans shall depict site constraints and design limitations due to the specimen tree(s). The alternate development plans shall also depict possible adjustments of building orientations and other proposed improvements; requests for variances and waivers to accommodate the specimen tree(s); reduction of developable area; and such other design alternatives for the site. The applicant bears the burden of proving it has exhausted feasible development plans to preserve existing specimen tree(s) in order to justify the removal of any existing specimen tree.
- (5) Extraordinary Circumstances and Hardships. The applicant bears the burden of demonstrating that an extraordinary circumstance and hardship exists to justify the removal of a specimen tree is necessary and can not be preserved in its current location pursuant to the sequence of actions set forth in this subsection (b) and by utilizing the tree removal conditions set forth in section 5-4(b) of this chapter.
- (6) Waiver or Variance Permit Fees. City permit fees related to any waiver or variance application(s) submitted by an applicant under chapter 20 of the City Code, which are required to preserve the specimen tree(s) under this section, shall be waived by the City.
- (7) Tree Replacement Requirements. Notwithstanding any other provision of this chapter, for each specimen tree permitted to be removed under this section, replacement of the lost tree canopy resulting from the removal of a specimen tree is imperative. The city may require up to twice the amount of canopy replacement trees or tree bank contribution required for replacement of each DBH protected tree in the category of 16" inches up to 24" inches. Location of the replacement trees shall be on-site and determined by the applicant. If the replacement trees cannot be accommodated on-site because of insufficient planting area as determined by the city arborist, then the applicant shall be required by the city to either plant the replacement trees off-site at a location determined by the city or provide the replacement trees to the city so the city can plant the replacement trees off-site, or, as an alternative, shall provide the tree bank contribution to compensate for those replacement trees that cannot be accommodated on-site.
- (8) Appeal of City manager Decisions. Final permit decisions made by the city manager are subject to appeal to the city commission pursuant to subsection 5-16(b) of this chapter.
- (c) *Historic tree incentives*. Property owners shall receive the following incentives if their property contains one or more designated historic tree(s):

- (1) Each historic tree will be placed on the city's register of historic trees which will contain any historical information about the tree, property owner(s) and its designation. A legal instrument will be prepared by the city attorney to be executed by the city and property owner and recorded against the land on which the tree is located for purposes of denoting the historic tree designation and protections afforded hereunder and to provide the city ingress and egress to conduct the inspections authorized by this section. Further, the property owner will be provided a small weather resistant ground emblem denoting the historic designation.
- (2) With permission of the property owner, the city arborist will conduct a periodic inspection approximately every two (2) years of each historic tree in order to evaluate the health and well-being of each historic tree. Such inspection will be at no cost to the property owner.
- (3) To the extent that a permit is required under this chapter to trim or maintain a historic tree, the fee shall be waived.
- (4) Upon request of and with the permission of the property owner, the city arborist will conduct an inspection of the historic tree after a storm or other catastrophic event in which a historic tree has suffered significant damage.

Sec. 5-9. - Tree replacement guidelines.

- (a) Tree replacement. All trees that are removed or destroyed and subject to replacement by this chapter shall be replaced by a species of tree cited in Appendix B, desirable trees Desirable Trees, or cited in Appendix C for Approved Streetscape Canopy Tree Types for streetscape trees along S.R. 434 and Tuskawilla Road, or such other trees properly approved by the city arborist provided the replacement satisfies the minimum guidelines set forth in this chapter including, but not limited, size, not an invasive species, and Florida Grades and Standard One (1) or better plant. Replacement shall occur prior to the issuance of a certificate of occupancy (if approval is pending) or within sixty (60) days of removal or destruction, whichever date is earlier, unless a greater replacement period is provided for good cause by permit.
- (b) Criteria for replacement trees is as follows:
 - (1) Characteristics of replacement trees. Canopy trees are preferred replacement trees under this chapter. The replacement tree(s) shall have the maximum amount of potential shade canopy feasible and sustainable on the site as required by the city, but no less than at least equal shade canopy potential, screening properties, and/or other characteristics comparable to that of the tree(s) requested to be removed.
 - (2) Size of replacement trees. Replacement tree(s) are to be made according to the tree replacement standards set forth in Table 1 [at the end of this section]; or (2) otherwise agreed upon by the city commission and applicant.
 - (3) *Tree species*. Relocated or replacement trees shall include only species and sizes defined as desirable trees (Appendix B) under this chapter.
 - (4) Transplanting and maintenance requirements. All trees transplanted pursuant to this chapter shall be maintained in a healthy, living condition. Any such trees which die

shall be replaced and maintained by the property owner. The city shall retain jurisdiction for one (1) year to ensure compliance with this chapter.

- (5) Waivers of replacement tree(s) specifications.
 - a. *General waivers*. The number of required replacement trees may be waived by the city commission, if the city commission determines that the remaining number of trees to be preserved on site are of sufficient number and quality to substantially comply with the purpose and intent of this chapter and a tree replacement fee is paid to the city's "tree bank," which is hereby established. Monies collected in the tree bank shall be used for enhancement and maintenance of city trees on public lands. The contribution to the tree bank may be waived by the city commission for individual homeowners, on a case-by-case basis, if the homeowner can demonstrate that the payment of the fee will cause the homeowner an undue economic hardship. Substitute tree(s) allowed under this waiver provision must have the approval of the city commission. The amount to be paid into the tree bank shall be set forth in Table 1 and should be based upon wholesale market value of the trees being replaced, plus installation and maintenance costs to establish the tree.
 - b. Renewable resource waivers. The tree replacement and tree bank requirements of this section shall not apply if a permit based on sections 5-4(b)(8) and 5-4(c)(4) is issued. If the permittee does not maintain and operate the permitted energy device for at least three (3) years, the permittee must replace the removed trees or pay a tree replacement fee to the city's tree bank as required by this section.
- (6) Replacement guidelines. The following tree replacement guidelines shall apply:
 - a. All plant material specified shall be Florida Grades and Standard One (1) or better.
 - b. For each tree located within a public conservation area (excluding jurisdictional wetlands determined by the St. John's River Water Management District or the U.S. Army Corp of Engineers, or as depicted on Map V-3: Existing Wetlands in the City of Winter Springs Comprehensive Plan) dedicated to the city as part of a development project, three (3) replacement tree credits may be applied to the total number of trees required to be replaced by this chapter. However, the minimum tree requirement set forth in section 5-13 shall still apply. Such public conservation area must be at least one (1) acre with widths not less than one hundred twenty-five (125) feet, unless otherwise approved by the city commission. In addition, trees approved by the city arborist to reforest such conservation area shall also be applied to the replacement requirement on a one-for-one basis.
 - c. If the city commission determines, due to site conditions or configuration, it is impossible or impracticable for the applicant/developer to meet the requirements for tree replacement, under this subsection, the city commission may allow the applicant/developer to pay into the city's "tree bank" the amount it would have spent on replacement trees.
 - d. Tree replacement credit <u>above the 1:1 standard replacement requirement</u> shall be allowed for the installation of preferred <u>canopy trees and plants that are specifically listed in accordance with the provisions set forth</u> in Appendix B: Desirable Trees

- and Appendix C: Approved Streetscape Canopy Tree Types for streetscape trees along S.R. 434 and Tuskawilla Road, provided the desirable tree is listed with an additional replacement credit score of above 1:1.
- e. In addition, for new development <u>projects</u>, tree replacement credit shall be allowed for the preservation of existing Desirable Trees on the development site, excluding wetland areas and existing conservation areas, as follows:

DBH of Preserved Tree	Reduction in Replacement Trees
4" up to but not including 9"	1 credit
9" up to but not including 12"	2 credits
12" up to but not including 16"	3 credits
16" up to but not including 24"	4 credits
Specimen and Historic Trees	0 credits, unless otherwise agreed by the city for extraordinary efforts and commitments made to preserve a specimen or historic tree up to a maximum of 5 credits per tree

- e<u>f</u>. Trees planted under a <u>powerline power line</u> shall not exceed a mature height of twenty-five (25) feet <u>unless otherwise prohibited by the electric utility or law</u>.
- fg. Diversity of species shall be required for replacement trees and not more than twenty (20) percent of the replacement trees shall be of a single species <u>unless an alternative landscape plan is approved by the city commission</u>.
- <u>gh</u>. All landscape plans shall be prepared by a landscape architect licensed by the State of Florida, unless the city determines the proposed landscaping or tree removal has a <u>deminimus</u> <u>de minimis</u> impact on the property.
- (c) Replacement cost. The property owner shall be responsible for the cost of replacing the trees removed from their property.

- (d) Elimination of undesirable trees and shrubs. The natural vegetative communities existing within the city shall be protected by the control and elimination of invasive, nonnative species. To that end, the following guidelines shall apply:
 - (1) Planting of trees and shrubs listed in Appendix A, Undesirable Trees, is prohibited.
 - (2) Removal of trees and shrubs listed on Appendix A, Undesirable Trees, from commercial, office, industrial, or multifamily sites (excluding jurisdictional wetlands) shall be completed, whenever practicable, as a requirement for approval of any development permit issued by the city or the issuance of a certificate of occupancy if applicable.
 - (3) Control and elimination procedures shall in no way promote the proliferation of the species through the dispersal of seed or other vegetatively reproducing parts.
 - (4) Control and elimination procedures shall in no way harm or cause the decline of preserved or planted trees and landscaping.
- (e) Limited exception for existing single-family lots. Notwithstanding any other tree replacement standard set forth in this section, a tree removal permit for a single tree shall be granted, as a matter of right without replacements required, for each existing single family home lot, provided the city arborist determines that:
 - (1) The tree is not a specimen or historic tree;
 - (2) The tree canopy covering the pervious portion of the lot after removal of the tree will be greater than fifty (50) percent; and
 - (3) A permit under this subsection (e) had not been granted during the preceding ten-year period.

TABLE 1. TREE REPLACEMENT STANDARDS

DBH of Protected Tree	Number of Replacement Canopy Trees Required for Each Tree Removed		Number of Replacement Small Trees or Palms Required for Each Tree Removed		Preferred Desirable Plant		Contribition Contribution to Tree Bank*
4' up to but not including 9"	1	or	1	or	Preferred Desirable Plant(s) w/Credits	or	\$ 150.00 <u>300.00</u>

9" up to but not including 12"	2	or	2	<u>or</u>	Preferred Desirable Plant(s) w/Credits	or	\$ 300.00 600.00
12" up to but not including 16"	3		Not allowed	<u>or</u>	Preferred Desirable Plant(s) w/Credits	or	\$4 50.00 <u>900.00</u>
16" up to but not including 24"	4		Not allowed	<u>or</u>	Preferred Desirable Plant(s) w/Credits	or	\$ 600.00 1,200.00
< <u>≥</u> 24"	To Be Preserved See Section 5-8		To Be Preserved Not allowed		To Be Preserved See Section 5-8		To Be Preserved See Section 5-8

^{*}These amounts may be adjusted biannually to compensate for increases to costs of plants as well as to costs of installation and establishment.

Sec. 5-10. - Prohibitions.

- (a) Placement of materials, machinery, or temporary soil deposits. It shall be unlawful to place material, machinery, or temporary soil deposits within the tree protection zone, as calculated according to Appendix C: Calculating Tree Protection Zone, before or during construction. Before or during construction the builder shall erect and maintain suitable protective barriers around all trees to be preserved. Upon written request, the city arborist, on a case by case basis, may allow material or temporary soil deposits to be stored within the protective barrier if no other storage is available.
- (b) *Climbing spurs*. It shall be unlawful to use climbing spurs or other similar device to aid in the climbing of a live tree, where such device causes the puncture or tears the bark of the tree.
- (c) *Tree spiking*. It shall be unlawful to introduce any type of poison or reactive material to a tree for the purpose of causing it to die or become diseased.

- (d) Structure and pavement location. It shall be unlawful to place any structure or impervious paving within eight-foot radius of any tree trunk or stem having a DBH of four (4) inches or more at caliper.
- (e) City trees. It shall be unlawful to trim, prune, or remove any city tree which is within the city's rights of way or upon any other city property without the permission of the city evidenced by the appropriate permit.
- (f) Attachment. It shall be unlawful to attach anything to a tree or stem, including nails or spikes, having a DBH of four (4) inches or more, other than protective wires, braces or other similar noninjurious materials.
- (g) *Cut and fill guidelines*. It shall be unlawful to remove or add any material or ground within the tree protection zone unless otherwise permitted by the arborist.
- (h) Encroachment of the dripline. During the construction stage of development, the developer or property owner shall not cause or allow land clearing, the use of heavy equipment or material within the dripline of any tree or groups of trees to be retained. Neither shall the developer cause or allow the disposal of waste material such as paint, oil, solvents, asphalt, concrete, mortar or any other material harmful to the life of a tree within the dripline of any tree or groups of trees, or where planting beds are to be situated.
- (i) <u>Girdling, Shearing, hat racking, topping or poodle trimming of trees (lollipop), lionstailing, pollarding of Trees.</u> Trees intended for shade purposes shall be allowed to reach their mature canopy spread. It shall be unlawful to engage in excessive pruning techniques on trees intended for shade purposes. Excessive shearing, pruning or shaping shall only be allowed with a permit by demonstrating necessity or without a permit in times of emergency only. The following are deemed unlawful excessive pruning techniques which are prohibited on shade trees:
 - (1) Lions tailing: The improper practice of removing most secondary and tertiary branches from the interior portion of the canopy leaving most live foliage at the edge of the canopy.
 - (2) Topping, hatracking, stag heading, de-horning, lopping, and rounding over: the improper practice of reducing tree size by making heading cuts through a stem more than two (2) years old; a pruning practice that destroys tree architecture and serves to initiate discoloration and perhaps decay in the cut stem.
 - (3) *Pollarding*: The pruning technique that removes sprouts back to the same location annually or biannually maintaining a tree to a specific height.
 - (4) Shearing: A pruning technique which is typically accomplished with cuts made through wood less than a year old at the sides of the canopy to create uniform dense canopies.
 - (5) *Poodle trimming*: Combines shearing and removing lower limbs to create tree forms that look like a "lollipop."
- (j) Construction near adjacent property. Walls, structures, and pavement shall not be constructed in any way which will result in damage to roots within the tree protection zones of trees located on adjacent properties.

(k) Destruction. It shall be unlawful to destroy a tree unless authorized under this chapter.

Sec. 5-11. – Reserved City trees; Care and maintenance.

- (a) The city manager in consultation with the city's arborist is responsible for the care, maintenance and protection of city trees. The city manager will make reports and requests for funds for the maintenance and protection of city trees to the city commission as necessary to comply with the spirit and intent of this chapter.
- written permission by the city manager or city commission to remove, alter or trim any city tree. Any approved removal, alteration or trimming will be determined at the city's sole discretion, and if the requested activity is permitted by the city, it must be performed by a contractor licensed under this chapter. Property owners failing to obtain the permission required hereunder for removing, altering or trimming city trees shall be deemed a violation of this chapter under Section 5-10(e). In addition, property owner may also be liable to the city for any city tree removed or damaged in violation of any applicable terms and conditions set forth in any easement or development agreement.

Sec. 5-12. - Permit contents; expiration; removal after expiration of permit.

- (a) *Permit contents*. The tree removal permit, when issued, shall specifically identify which trees shall be permitted to be removed. The removal permits merely authorize the removal of the trees specified therein. Nothing in this chapter shall be construed to require the removal of such trees by the permittee.
- (b) Permit expiration. Any permit issued under this chapter shall automatically expire six (6) months after issuance, except for permits issued in conjunction with a building permit which shall automatically expire six (6) months after issuance or at such time the building permit expires, whichever is later. (g) Time limitation and Expiration. Permits issued under this chapter shall expire and become null and void if work authorized by such permit is not commenced within 180 days from the date of the permit, or if work is commenced and suspended or abandoned at any time for a period of 180 days. However, if the permit is issued in conjunction with and in furtherance of a development permit approved by the city commission or building permit issued by the building official, the permit will expire at such time the development permit or building permit expires.
- (c) Restrictions on tree removal after permit expiration. Trees not removed during the life of the permit may not be removed without the issuance of a new permit based upon a new application.
- (d) *Permit display*. The permit shall be located and maintained upon the site at all time until final inspection or until issuance of a certificate of occupancy if applicable. For new developments, the permit shall be attached to the "posting board" with other permits. For

existing developments and existing single-family residences, the permit shall be displayed so as to be easily visible from the street.

Sec. 5-13. - Minimum tree requirement.

No certificate of occupancy shall be issued on the types of construction indicated below unless the underlying parcel has at least the required minimum number of approved trees:

- (a) Any new single-family or duplex dwelling unit on a lot of less than six thousand (6,000) square feet or greater: not fewer than two (2) trees.
- (b) Any new single-family or duplex dwelling unit on a lot equal to six thousand (6,000) square feet: not fewer than two (2) trees plus one (1) additional tree for each four thousand (4,000) square feet over six thousand (6,000) square feet.
- (c) Any commercial, industrial, multi-family or other structure requiring site plan approval under the city land development regulations: no fewer than six (6) trees or four (4) trees per acre, whichever is greater.

Sec. 5-14. - Tree protection during development and construction; periodic inspection.

- (a) Restrictions during construction. It shall be unlawful for any person, during the construction of any structures or other improvements, to place solvents, petroleum products, paint or masonry materials, construction machinery or temporary soil deposits within the dripline of any tree for which a tree removal permit is required but has not been obtained. This provision includes soil that is placed in the dripline permanently for the purpose of a grade change, unless the grade is changed according to the guidelines described in the Florida Division of Forestry, Department of Agriculture and Consumer Services Publication, Tree Protection Manual for Buildings and Developers.
- (b) Burden of tree protection on property owner. It shall be the responsibility of a property owner and their agents to ensure that any tree shown on the tree inventory for which a tree removal permit has not been obtained is to be protected. The property owner shall guarantee survival of retained trees and replacement trees for one (1) year from completion of permitted construction, unless a greater time period is required by development agreement. If a retained or replacement tree dies during that time period, the property owner shall replace the tree in accordance with a remedial action approved under section 5-17 of this chapter.
- (c) Protective barriers and signage required. Protective barriers shall be installed prior to construction (as determined using Appendix C: Calculating Tree Protection Zone) around every tree or group of trees to be preserved. Waterproof, rigid "Protection Zone Area" signs, as shown on Appendix D: Tree Protection Area Signage and not smaller than two (2) feet by three (3) feet shall be posted at 100-foot increments along the protective barriers. Should a private party fail to install the required tree protection barrier, the city reserves the right to install the required tree protection barrier and charge the private party conducting the work

for the city's materials and labor associated with the installing of the barricade. A sample tree protection barricade is set out below.

- (d) Site inspections. The city arborist may conduct periodic inspections of the site. It is the responsibility of the property owner and their agents to ensure that all provisions of this chapter are met.
- (e) Adjacent properties. The property owner and their agents shall ensure that the tree protection zones of trees located on adjacent properties are protected as required by this chapter for trees located on the site being developed.

Sec. 5-15. - Voluntary tree planting.

This chapter shall not be interpreted to restrict, regulate or limit the voluntary planting of any tree within the city. The provisions of this chapter govern only the planting of trees which are required to be planted or retained under this chapter. Trees or plants planted in the city's rights-of-way are subject to removal or trimming by the city at any time.

Sec. 5-16. - Waivers; incentive program and appeals.

- (a) Waivers. The city commission may grant a waiver to provisions of this chapter where the applicant demonstrates that the literal interpretation of the chapter will deny the applicant reasonable use of the property or where such waiver can be demonstrated to be consistent with the purpose and intent of the chapter. The preservation of any approved tree over four (4) inches in DBH may be considered as the basis for the granting of a waiver from the literal application of the provisions of the city's land development regulations. If, in the determination of the city commission, the sole basis for the request for waiver is to preserve such tree which would otherwise have to be removed, it may direct any required waiver fee to be waived.
- (b) Appeals. Any person adversely affected by an Appeals of an administrative interpretation of this chapter by the city arborist may first appeal that interpretation be made to the city manager by filing a written notice of appeal of said interpretation within ten (10) calendar days of said interpretation. Only the property owner where the interpretation is specifically applicable or affected contractor may file such an appeal. The city manager shall decide said appeal within five (5) business days. Any such property owner or contractor person adversely affected by an administrative decision of the city manager under this chapter may appeal that interpretation to the city commission by filing a written notice of appeal of said interpretation within thirty (30) calendar days of said interpretation. Failure to file an appeal within the time periods required by this subsection shall result in the administrative interpretation to be declared final and shall be deemed a waiver of the person's right to further appellate review and proceedings. The city commission shall decide said appeal within thirty (30) days of the city's receipt of said notice of appeal and the city commission's decision shall be final. Except for the mandatory time periods required for the notice of appeal, the time periods required for a decision may be extended by mutual agreement

between the city and the <u>property owner person</u> filing the notice of appeal. <u>Notwithstanding the aforesaid</u>, the city manager and city commission may review any decision regarding trees and land clearing on public property or city trees *sua sponte*, and such decisions are not a quasi-judicial decision and not appealable. The city retains sovereign immunity in all decisions related to trees and land clearing on public property and as otherwise provided by <u>law</u>.

(c) Incentive program. The city commission reserves the right to offer and approve incentives for purposes of protecting and preserving mature trees and planting enhanced landscaping. Such incentives shall have a public benefit and may include, but are not limited to, varying provisions of the city's land development regulations (e.g. reduced parking; modified setbacks) and providing credits to city development fees. Any incentives granted under this subsection shall be consistent with the comprehensive plan and shall be by development agreement or other formal approval.

Sec. 5-17. - Remedial action.

- (a) Violations require remedial action. Where violations of this chapter have occurred, remedial action shall be taken to restore the property consistent with a restoration plan approved by the city arborist or the city commission if the violation is inconsistent with plans, permits, or agreements approved by the city commission. The restoration plan may require mitigation of any other damage to the property, as well as tree replacements.
- (b) Tree replacement remediation requirements. Each tree destroyed or receiving major damage during construction must be replaced by either a comparable size and desirable type of tree as listed within Appendix B or providing a contribution to the tree bank equal to four (4) times the contribution listed on Table 1. Tree Replacement Standards [following section 5-9] or planting four (4) preferred desirable trees or plants listed within Appendix B before issuance of a certificate of occupancy or certificate of completion.
- (c) Property owner to guarantee survival of replaced trees. The property owner shall guarantee the survival of the trees required to be placed under subsection (b) above for a period of two (2) years from the date the certificate of occupancy or certificate of completion is issued, unless a greater time period is required by development agreement. Such guarantee shall include maintaining regular and appropriate irrigation or water source such as watering bags necessary to adequately sustain the well-being and survival of the replacement trees. If the replacement tree dies, the tree shall be replaced in accordance with this section.

Sec. 5-18. - Enforcement; penalties.

(a) *Enforcement*. The city may enforce the provisions of this chapter by any lawful means including, but not limited to, issuing a civil citation, bringing charges before the city's code enforcement board or special magistrate, and seeking injunctive and equitable relief. For

- purposes of determining the penalties provided under this chapter, the removal or death of a tree in violation of this chapter shall be deemed irreparable or irreversible.
- (b) *Penalties.* In addition to all other remedies set forth in this chapter <u>or any applicable</u> <u>agreement between the city and a property owner</u>, one or more of the following civil fines shall apply to violations of this chapter:
 - (1) Failure to obtain a permit under section 5-4(a): Fine of two hundred fifty dollars (\$250.00) per tree or five hundred dollars (\$500.00) per specimen or historic tree removed, or five hundred dollars (\$500.00) per quarter acre of land cleared, whichever is greater, not to exceed five thousand dollars (\$5,000.00). The fine under this subsection is in addition to the fine provided in subsection (2) or (3) for removal of tree without a permit.
 - (2) Removal of a tree without a permit: Fine of fifty dollars (\$50.00) per caliper inch, not to exceed five thousand dollars (\$5,000.00) per tree.
 - (3) Removal of a specimen or historic tree without a permit: Fine of one hundred dollars (\$100.00) per caliper inch, not to exceed five thousand dollars (\$5,000.00) per tree.
 - (4) Failure to abide by a cease and desist order issued under this Chapter: Fine of five hundred dollars (\$500.00) per day.
 - (5) Failure to obtain a contractor's license under section 5-4(e): Fine of two hundred fifty dollars (\$250.00) (1st offense); five hundred dollars (\$500.00) (2nd and each subsequent offense). In addition, if a contractor continues to engage in work without a contractor's license under this chapter in violation of a written cease and desist issued by the city, the penalty for failure to obtain a contractor's license under this subsection shall be increased \$250.00 per day for continued activity without a license after the cease and desist was issued.
 - (6) Failure to abide by the requirements of section 5-10 of this Chapter: Fine of two hundred fifty dollars (\$250.00) per occurrence.
 - (7) Any other violation of this chapter: Fine as provided by law and this chapter.
- (c) Civil fine determination. In determining the amount of the civil fine under subsection (6) above, the following factors shall be considered:
 - (1) The gravity of the violation.
 - (2) Any actions taken by the violator to correct the violation.
 - (3) Any previous violations of this chapter committed by the violator.
 - (4) The number and size of the trees removed, if any.
 - (5) The historical significance of any tree removed if the tree was deemed historic.
 - (6) Whether the violation is irreparable or irreversible in nature.
 - (7) The remedial actions offered by the violator to restore the property consistent with this chapter.

(8) Whether the violation was willful and intentional or in violation of an express provision of an agreement in which applicable rights were provided to the city.

Sec. 5-19. - Authorization to adopt rules and regulations and fees for implementation.

The city commission is hereby authorized to adopt, by resolution, such rules and regulations and fees as are necessary or proper to implement this chapter.

APPENDIX A UNDESIRABLE TREES

Common Name	Botanical Name
Mimosa, silk tree	Albizia julibrissin
Woman's tongue	Albizia lebbeck
Orchid tree	Bauhinia variegata
Bischofia	Bischofia javanica
Carrotwood	Cupaniopsis anacardioides
Australian pine	Casuarina litorea (=C. equisetifolia)
Suckering Australian pine	Casuarina glauca
Camphor tree	Cinnamomum camphora
Laurel fig	Ficus nicrocarpa
Glossy privet	Ligustrum lucidum
Chinese privet, hedge privet	Ligustrum sinense
Melaleuca, paper bark	Melaleuca quinquenervia

Chinaberry	Melia azedarach
Catclaw mimosa	Mimosa pigra
Strawberry guava	Psidium guajava
Guava	Psidium Montana (=P. littorale)
Downy rose-myrtle	Rhodomyrtus tomentosa
Popcom tree, Chinese tallow tree	Sapium sebiferum
Schefflera, Queensland umbrella tree	Schefflere actinophylla (=Brassaia actinophylla)
Brazilian pepper, Florida holly	Schinus terebinthefolius
Tung-oil tree	Aleurites fordii
Paper mulberry	Broussonctia papyrifera
Australian pine	Casuarina cunninghamiana
Indian rosewood, sissoo	Dalbergia sissoo
Ear-pod tree	Enterolobium contortisilquum
Goldenrain tree	Koelreuteria elegans
Lead tree	Leucaena leucocephala
Senegal date palm	Phoenix reclinata
Castor bean	Castor bean

Rose-apple	Syzygium jambos

APPENDIX B DESIRABLE TREES

Common Name	Botanical Name	Replacement Tree Size/Minimum Height	Preferred Replacement Plant and Tree Size/Minimum Height	Replacement Credits Preferred Plant	Notes
	1		Canopy Trees	1	I
Bald cypress	Taxodium distichum	15 gal.; 6' min. hgt.	25 gal.; 10' min. hgt.	2:1	30—70′ mature heigh deciduous, bronze fa color, chartreuse spring color
Bald cypress	Taxodium distichum		65 gal.; 14' min. hgt.	3:1	
Black gum, swamp tupelo	Nyssa sylvatica var. biflora	15 gal.; 6' min. hgt.	30 gal.; 10' min. hgt.	2:1	50 75' mature heigh orange-red fall color deciduous, prefers w soils
Carolina cherry laurel	Prunus caroliniana	15 gal.; 6' min. hgt.	30 gal.; 10' min. hgt.	2:1	40' mature height, evergreen, glossy leaves, black fruits
Chinese elm (Drake)	Ulmus parviflora	15 gal.; 9' min. hgt.	30 gal.; 10' min. hgt.	1:1	Medium tree, evergreen, attractive bark, fine texture
Dahoon	Hex cassine	15 gal.; 6' min. hgt.	30 gal.; 10' min. hgt.	2:1	40' mature height, evergreen, red fruits of female trees
Dahoon	Hex cassine	15 gal.; 6' min. hgt.	65 gal.; 10' min. hgt.	3:1	
Florida elm	Ulmus americana	15 gal.; 6' min. hgt.	30 gal.; 7' min. hgt.	3:1	60—70′ mature heigh deciduous, long livin

	floridana				shade tree
Laurel oak	Quercus laurifolia	15 gal.; 6' min. hgt.	N/A		100' mature height, begins to deteriorate about 50 years
Live oak	Quercus virginiana	15 gal.; 7' min. hgt.	30 gal.; 10' min. hgt.	2:1	100—150′ mature height, majestic spread, evergreen, long-lived
Live oak	Quercus virginiana	_	65 gal.; 12' min. hgt.	4:1	
Live oak	Quercus virginiana		FG; 4.5" min. caliper	5:1	
Longleaf pine	Pinus palustris	15 gal.; 6' min. hgt.	30 gal.; 9' min. hgt.	3:1	80—125′ mature height, high branchir
Pignut hickory	Carya glabra	15 gal.; 6' min. hgt.	30 gal.; 9' min. hgt.	2:1	40—80' mature heigh kernal kernel inside nut is edible, shade tolerant
Red maple	Acer rubrum	15 gal.; 8' min. hgt.	30 gal.; 10' min. hgt.	2:1	50—120′ mature height, red spring flowers, orange-red fall color
Red maple	Acer rubrum	_	65 gal.; 12' min. hgt.; 3" caliper	4:1	
Red maple	Acer rubrum	_	FG; 4" caliper	4:1	
Sand live oak	Quercus geminata	15 gal.; 6' min. hgt.	FG; 3" min. caliper	5:1	Small to medium size tree, dark green leave asymmetric form

Slash pine	Pinus elliottii	15 gal.; 6' min. hgt.	30 gal.; 9' min. hgt.	3:1	80—125′ mature height, high branchir
Southern magnolia	Magnolia grandiflora	15 gal.; 6' min. hgt.	30 gal.; 8' min. hgt.	3:1	60' mature height, large glossy leaves, showy white flower
Southern magnolia	Magnolia grandiflora	_	65 gal.; 10' min. hgt.	4:1	
Southern magnolia	Magnolia grandiflora	_	FG; 12' min. hgt.; 2.5" cal	5:1	
Sugarberry, hackberry	Celtis laevigata	15 gal.; 6' min. hgt.	30 gal.; 8' min. hgt.	2:1	60—80' mature height fruit attracts birds, large graceful form prefers moist soils, so wood
Sweetbay	Magnolia virginiana	15 gal.; 6' min. hgt.	FG; 10' min. hgt.	3:1	60' mature height, creamy white flower seed cone with brigh red seeds, evergreen leaves with whitish undersides, prefers w sols
Sweetgum	Liquidambar styraciflua	15 gal.; 6' min. hgt.	30 gal.; 10' min. hgt.	3:1	60—120′ mature height, yellow fall color, deciduous, see in spiny bals
Sycamore	Platanus occidentalis	15 gal.; 6' min. hgt.	30 gal.; 10' min. hgt.	3:1	80—100′ mature height, varicolor bar golden fall color, deciduous
Water ash, Carolina ash	Fraxinus caroliniana	15 gal.; 6' min. hgt.	N/A		30 40' mature height soft wood, bright gre compound leaves,

						prefers moist areas
1	Water oak	Quercus nigra	15 gal.; 6' min. hgt.	30 gal.; 10' min. hgt.	2:1	95' mature height; du bluish green foliage shade tree
	Winged elm	Ulmus alata	15 gal.; 6' min. hgt.	30 gal.; 10' min. hgt.	3:1	50—80 feet mature height, corky winged bark; rusty fall color

Small Understory Trees

Camelia	Camelia spp.	FG; 8' min height	FG; 8' min height	2:1	Showy spring flower
Carolina willow	Salix caroliniana	15 gal.; 6' min. hgt.	N/A 15 gal.; 6' min. hgt.		20—30' mature heigh good for erosion control, soft green foliage, black ridged bark, prefer's prefers moist to wet soils
Chapman oak	Quercus chapmanii	15 gal.; 4' min. hgt.	N/A-15 gal.; 4' min. hgt.		Small tree, evergreer prefers well-drained soils
Chickasaw plum	Prunus angustifolia	15 gal.; 6' min. hgt.	30 gal.; 6' min. hgt.	3:1	Small spreading tree armed, white flower before leaves emerge in spring
Crape myrtle	Lagerstroemia	15 gal.; 6' min. hgt.	30 gal.; 8' min. hgt.; standard	1:1	Showy flowers, evergreen
Devils- walking- stick	Aralia spinosa	15 gal.; 5' min. hgt.	N/A 15 gal.; 5' min. hgt.		15-20' mature height umbrella-like crown large white flower clusters, spines,

					spreads freely
Festive holly	Hex X Festive	15 gal.; 4' min. hgt.	30 gal.; 6' min. hgt.	1:1	Pyramidal evergreer spiny foliage, 10' mature height
Florida anise tree	Illicium floridanum	15 gal.; 40" min. hgt.	N/A 15 gal.; 40" min. hgt.		20' mature height, maroon-red flowers prefers moist soils, compact and dense form
Flowering dogwood	Comus florida	15 gal.; 6' min. hgt.	FG; 3.5" min. caliper	3:1	20—30' mature height showy white spring bracts, red autumn color
Fringe tree	Chionanthus virginicus	15 gal.; 5' min. hgt.	30 gal.; 6' min. hgt.		20—30' mature height upright branches forming dome shape white delicate flower golden fall color
Hercules- club, pricklyash	Zanthoxylum clava-herculis	15 gal.; 5' min. hgt.	N/A <u>15 gal.; 5' min.</u> <u>hgt.</u>		Small armed tree, deciduous
Japanese privet	Ligustrum japonicum	15 gal.; 5' min. hgt.	30 gal.; 6' min. hgt.	2:1	15' mature height, evergreen, upright spreading form
Little Gem magnolia	Magnolia grandiflora 'Little Gem'	15 gal.; 6' min. hgt.	30 gal.; 7' min. hgt.	3:1	20—25' mature height showy white fowers dark green glossy leaves
Little Gem magnolia	Magnolia grandiflora 'Little Gem'	_	65 gal.; 10' min. hgt.	4:1	

Loquat	Eriobotrya japonica	15 gal.; 6' min. hgt.	30 gal.; 8' min. hgt.	2:1	Medium tree, evergreen, dark gree foliage, dark yellow fruits, fruits edible
Musclewood, American hornbeam	Carpinus caroliniana	15 gal.; 6' min. hgt.	15 gal.; 6′ min. hgt.	2:1	Small tree, deciduous prefers moist to occassionaly wet soil prefers shade to parti shade, trunks "muscle like"
Myrtle oak	Quercus myrtifolia	15 gal.; 5' min. hgt.	15 gal.; 5' min. hgt.	2:1	Small, scrubby tree; evergreen, prefers dri soils
Oakleaf holly	Hex X 'Oakleaf'	15 gal.; 6' min. hgt.	30 gal.; 8' min. hgt.	1:1	14 20' mature height upright to pyramidal form, evergreen, receberies, oak-shaped leaves
Podocarpus, Nagi	Podocarous nagi	15 gal.; 6' min. hgt.	N/A <u>15 gal.; 6' min.</u> hgt.		40' mature height, strongly upright, symmetrical branching, evergreer dark green foliage
Podocarpus, Yew	Podocarpus macrophyllus	15 gal.; 6' min. hgt.	N/A <u>15 gal.; 6' min.</u> hgt.		50' mature height, evergreen, compact, foliated to ground, dark green foliage
Red mulberry	Morus rubra	15 gal.; 6' min. hgt.	N/A <u>15 gal.; 6' min.</u> <u>hgt.</u>		Small tree, large leaves, edible fruits, attracts birds
Redbud	Cercis canadensis var.	15 gal.; 6' min. hgt.	15 gal.; 6' min. hgt.	2:1	20—35' mature heigh rosy purple spring flowers, deciduous,

	canadensis				high branching, sensitive to auto pollutants
Redbud	Cercis canadensis var. canadensis	_	30 gal.; 8' min. hgt.	3:1	
Rusty lyonia, staggerbush	Lyonia ferruginea	15 gal.; 6' min. hgt.	N/A 15 gal.; 6' min. hgt.		20—25' mature heigh rusty colored new growth, evergreen, crooked and asymmetric form
Silverthorn	Elaegnus pungens	15 gal.; 6' min. hgt.	N/A 15 gal.; 6' min. hgt.		20' mature height; sprawling, weeping form; leaves with silvery undersides
Southern red cedar	Juniperus silicicoia	15 gal.; 6' min. hgt.	30 gal.; 7' min. hgt.	3:1	25' mature height, evergreen with reddish-brown bark, prefers neutral soils, symmetrical when young, often asymmetric and windswept with age
Sparkleberry	Vaccinium arboreum	15 gal.; 5' min. hgt.	N/A 15 gal.; 5' min. hgt.		20—30' mature heigh red fall color, deciduous
Sweet/Tea Olive	Osmanthus fragrans	15 gal.; 5' min. hgt.	15 gal.; 5′ min. hgt.	1:1	20' mature height, evergreen, open, foliage restricted to branch tips
Tabebuia	Tabebuia spp.	15 gal.; 6' min. hgt.	30 gal.; 10' min. hgt.	1:1	Height variable, not strongly frost hardy

Titi	Cyrilla racemiflora	15 gal.; 5' min. hgt.	N/A 15 gal.; 5' min. hgt.		15—30' mature heigh prefers acid to very acid soils, prefers moist to wet soils, wide spreading branches, white racemes of flowers in early summer
Tortulosa juniper	Juniperus chinensis 'Tortulosa'	15 gal.; 5' min. hgt.	25 gal.; 7' min. hgt.	1:1	
Tough bumelia	Bumelia tenax	15 gal.; 5' min. hgt.	N/A <u>15 gal.; 5' min.</u> <u>hgt.</u>		Small tree, coppery leaf undersides, scrubby form
Turkey oak	Quercus laevis	15 gal.; 5' min. hgt.	N/A-15 gal.; 5' min. hgt.		20—30' mature heigh copper fall color; deeply lobed leaves prefers sandy, well- drained soils
Walter's viburnum	Vibumum obovatum	15 gal.; 5' min. hgt.	25 gal.; 7' min. hgt.; standard	2:1	12—20' mature heigh white spring flower clusters, prefers mois to we soils
Wax myrtle	Myrica cerifera	15 gal.; 5' min. hgt.	25 gal.; 7′ min. hgt.	2:1	15 20' mature height dark blue, chalky fruits; olive green foliage, evergreen, lo maintenance
Wax myrtle	Myrica cerifera	_	FG; 12' min. hgt.	3:1	
Weeping willow	Salix babylonica	15 gal.; 8' min. hgt.	30 gal.; 10' min. hgt.	1:1	15—25' mature heigh draping linear leaves

Wild olive	Osmanthus americanus	15 gal.; 5' min. hgt.	N/A 15 gal.; 5' min. hgt.		15—25' mature heig olive-green folage beautiful shape in lig shade to sun
Yaupon	Hex vomitoria	15 gal.; 5' min. hgt.	25 gal.; 7' min. hgt., standard	3:1	20 25' mature heig red-orange transluce fruits, evergreen, oft multi-trunked
Yaupon	Hex vomitoria		65 gal.; 10' min. hgt., standard	4:1	
	1	P	alms		'
Cabbage palm	Sabal palmetto	10' min. hgt.	15' min. hgt.; clear trunk	2:1	50—80' mature height, long lived
Cabbage palm	Sabal palmetto		18' min. hgt.; clear trunk	3:1	
Canary Island date palm	Phoenix canariensis	15 gal.; 40" mir hgt	30 gal.; 7' min. hgt.	1:1	60' mature height, diamond patterned trunk, evergreen, feather- like fronds
Date palm	Phoenix dactylifera	15 gal.; 3' min. hgt.	FG; 10' min. hgt.; clear trurk	1:1	80' mature height, pinnate

					leaves to 10' long, grey- green color
European fan palm	Chamaerops humilis	15 gal.; 3' min. hgt.	15 gal.; 3' min. hgt.; multiple	1:1	15' mature height, palmate fronds, gray- green color
Needle palm	Rhapidophyllum hystrix	15 gal.; 3' min. hgt.	25 gal.; 4' min. hgt.; triple	5:1	3-8' mature height, prefers moist soil, evergreen, palmate fronds, declining native species
Pindo palm	Butia capitata	15 gal.; 3' min. hgt.	25 gal.; 6' min. hgt.	1:1	20' mature height, pinnate fronds fine texture, blue- green color
Pygmy date	Phoenix	15 gal.; 3' min.	25 gal.; 5' min. hgt.;	1:1	8' mature

palm	roebelenij	hgt.	triple		height
Sago palm, King	Cycas revoluta	15 gal.; 3' min. hgt.	30 gal.; 4' min. hgt.	1:1	20' mature height, dark green feather- like leaves
Sago palm, Queen	Cycas circinalis	15 gal.; 3' min. hgt.	30 gal.; 4' min. hgt.	1:1	20' mature height, dark green feather- like leaves
Washington palm	Washingtonia robusta	15 gal.; 3' min. hgt.	25 gal.; 7' min. hgt.	1:1	60' mature height, palmate leaves, rapid growth, develops "shag" of hanging dead fronds, good as avenue tree
Washington palm	Washingtonia robusta	15 gal.; 4' min. hgt.	65 gal.; 10' min. hgt.	1:1	

Windmill Palm	Trachycarpus fortunei	15 gal.; 3' min. hgt.	25 gal.; 5' min. hgt.	1:1	20' mature height, palmate fronds, gray- green color		
min. hgt. = minimum height							
min. calliper <u>caliper</u> = minimum calliper <u>caliper</u>							
gal. = gallon							
FG = field grown							

APPENDIX C: APPROVED STREETSCAPE CANOPY TREE TYPES FOR STREETSCAPES ALONG S.R. 434 AND TUSKAWILLA ROAD

Canopy Trees					
Common Name	Botanical Name	Required Specs			
<u>Live Oak</u>	Ouercus Virginiana	4 inch caliper at dbh			
Sycamore	Plantanus Occidentalis	3.5 inch caliper at dbh			
Red Maple	Acer Rubrum	3 inch caliper at dbh			
Southern Magnolia	Magnolia Grandiflora	3 inch caliper at dbh			
Drake Elm	Ulmus Parvifolia	3 inch caliper at dbh			
	Sempervirons "Drake"				
Winged Elm	<u>Ulmus Alata</u>	3 inch caliper at dbh			

<u>Understory Trees</u>						
Common Name	Botanical Name	Required Specs				
Tree Ligustrum	<u>Ligustrum Japonicum</u>	8 ft. x 8 ft. spread				
Crape Myrtle	Lagerstoremia Indicia	12 ft. multi or standard				
Redbud	Cercis Canadensis	12 ft. height				
<u>Tabebuia</u>	Tabebuia Spp.	12 ft. height				

The City Manager or designee reserves the right to approve or deny a proposed tree selection from the approved streetscape tree listings, pursuant to Section 20-605 of the City Code.

APPENDIX C CALCULATING TREE PROTECTION ZONE

The following guidelines shall be applied to determine the Tree Protection Zone:

- 1. Evaluate the species tolerance of the tree: good, moderate, or poor (See list on next page)
- 2. Identify tree age: young (<20% of the tree's life expectancy), mature (20% 80% of the tree's life expectancy)
- 3. Using the table below, find the distance from the trunk that should be protected per inch of trunk diameter.
- 4. Multiply the distance by the trunk diameter to calculate the optimum radius (in feet) for the tree protection zone.

Example:

A healthy 60-year old, 30" diameter California black walnut (poor tolerance, mature age)

$1.25' \times 30'' = 37.5'$ radius tree protection zone.

Species Tolerance	Tree Age	Distance from trunk feet (per inch trunk diameter)
Good	Young	0.5'
	Mature	0.75'
	Overmature	1.0'
Moderate	Young	0.75'
	Mature	1.0'
	Overmature	1.25'
Poor	Young	1.0'
	Mature	1.25'
	Overmature	1.5'

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Source: Trees and Development, a Technical Guide to Preservation of Trees During Land Development, Nelda Matheny and James Clark, 1998, International Society of Arboriculture, Champaign, IL

		Relative Tolerance Assigned either by source or by Matheny			
Common Name	Scientific Name	and Clark	Comments	Source	
Balsam fir	Abies balsamea	Good	Tolerant of root loss and saturated soils.	Hightshoe	
White fir	Abies concalor	Moderate	Tolerant of root loss. Intolerant of saturated and high salt soils.	Day, Hightshoe	
Acacia	Acacia spp.	Poor	Intolerant of root injury.	Matheny & Clark	
Florida maple	Acer barbatum	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder	
Vine maple	Acer circinatum	Good	Best retained as clumps.	Peepte	
Chalk maple	Acer leucoderme	Poor	Response is site dependent.	Coder	
Bigleaf maple	Acer macrophyllum	Good	Select specimens with good crown structure.		
			Tolerant of root pruning and injury but not of fill.	Beck	
Bigleaf maple	Acer macrophyllum	Poor	Declines following addition of fill.	Dunster	

Box elder	Acer negundo	Good	Tolerant of root loss and saturated soils. May tolerate some fill. Select superior individuals for preservation.	Coder, Hightshoe, Sydnor
Striped maple	Acer pensylvanlcum	Moderate	Intolerant of mechanical injury (poor compartmentalization). Limited tolerance to microclimate change. Tolerance greatest within native range.	Coder
Norway maple	Acer platanoides	Moderate- good	Moderately tolerant of root pruning.	S. Clark, Fraedrich
Sycamore maple	Acer pseudoplatanus	Moderate	_	Gilbert
Red maple	Acer nubrum	Moderate- good	Response probably associated with geographic location. Tolerant of root pruning and saturated soils.	Coder, Fraedrich, Hightshoe
Silver maple	Acer saccharinum	Poor- moderate	Likely to slowly die back following root injury (Day). May tolerate some root pruning (Praedrich) or loss (Hightshoe). Some tolerance for crown reduction pruning, fill soils and saturated soils. Response variable within species (Coder)	Coder, Day, Fraedrich, Hightshoe, Sydnor
Sugar maple	Acer saccharum	Poor- moderate	Tolerant of root loss. Intolerant of saturated and fill soils.	S. Clark, Hightshoe, Sydnor
Mountain maple	Acer spicatum	Moderate	Intolerant of mechanical injury (poor compartmentalization). Limited tolerance to microclimate change. Tolerance greatest within native range.	Coder

California buckeye	Aesculus californica	Good	_	Matheny & Clark
Red horse- chestnut	Aesculus x camea	Good	Shows good resistance to "contractor pressures."	Gilbert
Yellow buckeye	Aesculus flava	Poor	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Ohio buckeye	Aesculus glabra	Poor	Intermediate tolerance to root loss and saturated soils. Poor acclimation response. Tolerant of some fill.	Hightshoe, Sydnor
Red buckeye	Aesculus pavia	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Tree of heaven	Ailanthus altissima	Good	Tolerant of root pruning. Generally good acclimation response following disturbance.	Day, Fraedrich, Sydnor
Alders	Alnus spp.	Good	Show considerable resistance to "contractor pressures."	Gilbert
Red alder	Alnus rubrn	Poor- moderate	Retain only in groups or as individuals with strong taper and structure. Relatively short-lived. Intolerant to root injury.	Beck, Dunster, Peepre
Hazel alder	Alnus serrulata	Good	_	Coder
Serviceberry	Amelanchier spp.	Good	Intermediate tolerance to root loss. Tolerant of saturated soils. Generally good acclimation response to site change.	Hightshoe, Sydnor
Đowny	Amelanchier	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder

serviceberry	arboren		Response constrained by soil aeration and water availability.	
Devil's- walkingstick	Aralia spinosa	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Madrone	Arbutus menziesii	Poor	Intolerant of site disturbance.	Matheny & Clark
Pawpaw	Asimina triloba	Good	_	Coder
Eastern baccharis	Baccharis halimifolia	Good	_	Coder
Birch	Betula spp.	Poor- moderate	Intolerant of root pruning. Mature trees particularly sensitive to development impacts.	Gilbert, Fraedrich
Yellow birch	Betula alleghaniensis	Moderate	Intolerant of mechanical injury (poor compartmentalization). Limited tolerance to microclimate change. Tolerance greatest within native range. Response varies due to soil and water availability.	Coder
Sweet birch	Betula lenta	Moderate	Intermediate tolerance to root loss. Intoletant of saturated soils. Intolerant of mechanical injury. Limited tolerance to microclimate change. Tolerance greatest within native range.	Coder, Hightshoe
River birch	Betula nigra	Moderate- good	Variable tolerance of root loss and saturated soils. Tolerant of minor amounts of fill.	S. Clark, Coder, Hightshoe, Sydnor
Paper birch	Betula papytifera	Poor- moderate	Intolerant of construction impacts outside of native range; moderate within. Prone to sunscald. Low	S. Clark, Day, Peepre,

			tolerance to root injury. Bronze birch borer much more severe under stress. Best retained in groups or as select individuals.	Sydnor
Gray birch	Betula populifolia	Moderate- good	Tolerant of construction impacts within native range; moderate response outside. Construction impacts/injury increases susceptibility to bronze birch borer.	S. Clark, Sydnor
Gum bumelia	Bumelia lanuginosa	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Buckthorn bumelia	Bumelia lycioides	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Incense cedar	Calocedrus decurrens	Moderate	_	Matheny & Clark
Blue beech;	Carpinus caroliniana	Moderate	Intolerant of root loss and saturated soils. Susceptible to two-lined chestnut borer, particularly under conditions of environmental stress. Limited tolerance to climatic change. Tolerance greatest within native range.	Coder, Hightshoe, Sydnor
Water hickory	Carya aquatica	Good	_	Coder
Bitternut hickory	Carya cordiformis	Good	Intermediate tolerance to root loss and saturated soils. Will tolerate some fill.	Hightshoe, Sydnor

Bitternut hickory	Carya cordiformis	Poor	Response constrained by soil aeration and water availability.	Coder
Pignut hickory	Carya glabra	Moderate-good	Moderately tolerant of construction damage. Tolerant of some fill. Windfirm. Response constrained by soil and water availability.	S. Clark, Coder, Sydnor
Pecan	Carya illinoensis	Moderate- good	Moderately tolerant of construction damage. Tolerant of some fill.	S. Clark, Sydnor
Shagbark hickory	Carya ovata	Moderate- good	Moderately tolerant of construction damage. Tolerant of some fill. Windfirm.	S. Clark, Sydnor
Shagbark hickory	Carya ovata	Poor	Response constrained by soil aeration and water availability.	Coder
Sand hickory	Carya pallida	Moderate	_	Coder
Mockemut hickory	Carya tomentosa	Moderate- good	Moderately tolerant of construction damage. Tolerant of some fill. Windfirm.	S. Clark, Sydnor
Mockemut hickory	Carya tomentosa	Poor- moderate	Response constrained by soil aeration and water availability.	Coder
Florida chinkapin	Castanea alnifolia	Moderate	Pest problems associated with development impacts.	Coder
Allegheny chinkapin	Castanea pumila	Poor	Pest problems associated with development impacts.	Coder
Catalpa	Catalpa spp.	Moderate	Tolerant of saturated soils. Intermediate in tolerance to root loss.	Hightshoe

Southern catalpa	Catalpa bignonioides	Good	_	Coder
Northern catalpa	Catalpa speciosa	Good	Generally tolerant of disturbance including root injury. Prone to basal decay.	Day, Sydnor
Deodar cedar	Cedrus deodara	Good	Tolerant of root and crown pruning. Intolerant of excessive soil moisture; leads to Armillaria and Phytophthora.	Ellis
Sugarberry	Celtis laevigata	Good	Intolerant of mechanical injury (poor compartmentalization).	Coder
Georgia hackberry	Celtis tenuifolia	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Hackberry	Celtis occidentalis	Good	Tolerant of root loss. Intermediate (Hightshoe) or low (Day) in tolerance to saturated soils.	Day, Hightshoe, Sydnor
Common buttonbush	Cephalanthus occidentalis	Good	Intolerant of mechanical injury (poor compartmentalization).	Coder
Katsura-tree	Cercidiphyllum japanicum	Poor- moderate	Sensitive to fill and root disturbance. Requires tree protection zone at the dripline. Requires postconstruction care, particularly supplemental irrigation.	Cullen
Redbud	Cercis canadensis	Moderate	Response constrained by soil aeration and water availability.	Coder
Alaska yellow-	Chamaecyparis nootkatensis	Good	Relatively windfirm. Intolerant of changes in water table/soil	Peepre

cedar			moisture.	
False cypress	Chamaecyparis spp.	Good	Show considerable resistance to "contractor pressures."	Gilbert
Fringetree	Chionanthus virginicus	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Yellow-wood	Cladrastis lutea	Poor	Response is site dependent.	Coder
Cinnamon clethra	Clethra acuminata	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Buckwheat tree	Cliftonia monophylla	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Pagoda dogwood	Conius alternifolia	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Flowering dogwood	Conius florida	Poor	Intolerant of site disturbance.	Sydnor
Flowering dogwood	Cornus florida	Moderate	Intolerant of mechanical injury (poor compartmentalization). Pest problems associated with development impacts.	Coder
Pacific dogwood	Conius nuttallii	Good	_	Peepre
Swamp dogwood	Conius stricta	Good	Intolerant of mechanical injury (poor compartmentalization).	Coder

Beaked hazel	Corylus conuita	Good	_	Coder
Hawthorn	Crataegus spp.	Moderate	Intermediate tolerance to root loss and saturated soils.	Hightshoe
Cockspur hawthorn	Crataegus crus galli	Good	Sensitive to windthrow if canopy raised. Some tolerance to disturbance.	Sydnor
Washington hawthorn	Crataegus phaenopyrum	Good	Susceptible to windthrow. Tolerates some disturbance.	Sydnor
Dotted hawthorn	Crataegus punctata	Good	Susceptible to windthrow. Tolerates some disturbance.	Sydnor
Cypresses	Cupressus spp.	Good	Show considerable resistance to "contractor pressures."	Gilbert
Montecey cypress	Cupressus macrocarpa	Poor	Intolerant of site disturbance.	Matheny & Clark
Swamp cyrilla	Cyrilla racemiflora	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Persimmon	Diospyros virginiana	Good	Tolerant of saturated soils. Pest problems associated with development impacts.	Sydnor
Eastern coralbean	Erythrina berbacen	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Eucalyptus	Eucalyptus spp.	Moderate	Moderately tolerant of root loss. Intolerant of fill.	Matheny & Clark
Eastern wahoo	Euonymus atropurpureus	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Beech	Fagus spp.	Poor	Intolerant of root pruning. Poor response to injury. Intolerant of fill	Fraedrich, Sydnor

			soil.	
American beech	Fagus grandifolia	Poor	Response is site dependent.	Coder
European beech	Fagus sylvatica	Poor	Mature trees particularly susceptible.	Gilbert
Swamp privet	Forestea accuminata	Good	_	Coder
Ash	Fraxinus spp.	Moderate	Moderately tolerant of root pruning.	S. Clark, Fraedrich
White ash	Fraxinus americana	Moderate- good	Tolerant of root loss. Intermediate in tolerance to saturated soils. Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil and water availability.	S. Clark, Coder, Hightshoe, Sydnor
Carolina ash	Fraxinus caroliniana	Good	_	Coder
European ash	Fraxinus excelsior	Moderate	_	Gilbert
Black ash	Fraxinus nigra	Good	Tolerant of root loss and saturated soils.	Hightshoe
Green ash	Fraxinus pennsylvanica	Good	Tolerant of root pruning and loss. Benefits from supplemental Irrigation following injury. Tolerant of saturated soils and fill.	Coder, Day, Hightshoe, Sydnor
Blue ash	Fraxinus quadrarigulata	Good	_	Sydnor
Shamel ash	Fraxinus uhdei	Good	Tolerant of root pruning. Best with	Bills

			irrigation following disturbance.	
Modesto ash	Fraxinus velutina 'Modesto'	Good	Tolerant of root pruning. Requires supplemental irrigation following root loss/injury.	Matheny & Clark
Ginkgo	Ginkgo biloba	Good	Tolerant of root pruning.	Fraedrich, Sydnor
Water locust	Gleditsia aguatica	Good	_	Coder
Honey locust	Gleditsia triacanthos f. Inermis	Good	Tolerant of root pruning and site disturbance. Intermediate tolerance to saturated soils.	Coder, Fraedrich. Hightshoe, Sydnor
Loblolly bay	Gordonia lasianthus	Good	_	Coder
Kentucky coffee-tree	Gymnoceadus dioicus	Good	Intermediate tolerance to root loss and saturated soils. Tolerant of site disturbance.	Hightshoe, Sydnor
Carolina silverbell	Halesia carolina	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability. Limited tolerance to microclimate change. Tolerance greatest within native range.	Coder
Two-winged silverbell	Halesia diptera	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Little silverbell	Halesia parviflora	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil	Coder

			aeration and water availability.	
Witch-hazel	Hamamelis virginiana	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Carolina holly	Hex ambigua	Good	_	Coder
Dahoon	Hex cassine	Good	_	Coder
Large gallberry	Hex coriacea	Good	_	Coder
Possumhaw	Hex decidua	Good	_	Coder
Mountain winterberry	Ilex montana	Moderate-	Limited tolerance to microclimate change. Tolerance greatest within native range.	Coder
Myrtle dahoon	Hex myrtifolia	Good	_	Coder
American holly	Hex opaca	Good	Tolerates some fill.	Coder, Sydnor
Common winterberry	Hex verticillata	Good	_	Coder
Yaupon holly	Hex vamitoria	Good	_	Coder
California black walnut	Juglans hindsii	Poor	Dies slowly following even minor root injury or changes to water table. Crown reduction pruning may be fatal. Requires tree protection zone at or beyond the dripline.	Matheny & Clark
Black walnut	Juglans nigra	Poor-	Intolerant of root loss. Intermediate tolerance to saturated	Hightshoe,

		moderate	soils. Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Sydnor
English walnut	Juglans regin	Poor	Usually grafted onto California black walnut stock.	Matheny & Clark
Rocky Mountain junlper	Junlperus scopulorum	Poor	Sensitive to root pruning and fill soil. Likely to decline following grade change and loss of roots. Very susceptible to borers when stressed.	Day
Eastern red cedar	Juniperus virginiana	Good	Tolerant of root loss. Intolerant of saturated soils. Intolerant of mechanical injury.	Coder, Hightshoe, Sydnor
Mountain laurel	Kahnia latifolia	Good	_	Coder
Tamarack	Larix laricina	Moderate	Tolerant of root loss and saturated soils.	Hightshoe
Sweetgum	Liquidambar styraciflua	Poor-good	Intermediate response to fill and root injury. Breadth of tolerance may be due to pre-existing site conditions and within species variation.	S. Clark, Coder, Matheny & Clark, Sydnor
Tuliptree	Liriodendron tulipifera	Moderate	Intolerant of root pruning. Sensitive to wounding.	Fraedrich, Sydnor
Tuliptree	Liriodendron tullpifera	Poor	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder

Cucumbertree	Magnolia acuminata	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Fraser magnolia	Magnolia fraseri	Poor	Intolerant of mechanical injury (poor compartmentalization). Limited tolerance to microclimate change. Tolerance greatest within native range.	Coder
Southern magnolia	Magnolia graudiflora	Poor or good	Response dependent upon location; good within native range; poor outside it. In California, it declines following root injury and site disturbance.	Matheny & Clark, Sydnor
Southern magnolia	Maguolia grandiflora	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Pyramid magnolia	Magnolia pyramidata	Poor	Intolerant of mechanical injury (poor compartmentalization). Limited tolerance to microclimate change. Tolerance greatest within native range.	Coder
Sweet bay	Magnolia virginiana	Good	Tolerant of saturated soils.	Coder, Sydnor
Apples	Malus spp.	Moderate	_	Gilbert
Southern erabapple	Malus angustifolia	Moderate	Intolerant of mechanical injury (poor compartmentalization). Limited tolerance to microclimate change. Tolerance greatest within native range. Pest problems associated with development impacts.	Coder
Sweet crabapple	Malus coronarla	Moderate- good	Intolerant of mechanical injury (poor compartmentalization). Limited tolerance to microclimate	Coder, Sydnor

			change. Tolerance greatest within native range. Pest problems associated with development impacts.	
Apple	Malus domestic	Good	Tolerant of some fill.	Sydnor
Ptairie erabapple	Malus iocnsis	Good	_	Sydnor
White mulberry	Morus alba	Moderate	_	Matheny & Clark
White mulberry	Morus alba	Good	Tolerant of disturbance and fill.	Sydnor
Red mulberry	Morus rubra	Good	Tolerant of disturbance and fill.	Coder, Sydnor
Southern bayberry	Myrica cerifera	Good	_	Coder
Evergreen bayberty	Myrica heterophylla	Good	_	Coder
Water tupelo	Nyssa aquatica	Good	_	Coder
Ogeechee tupelo	Nyssa ogeche	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Black gum	Nyssa sylvatica	Good	Response constrained by soil aeration and water availability.	Coder, Sydnor
Devilwood	Osmanthus americanus	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
American	Ostrya	Moderate	Intolerant of root loss and saturated soils. Two-lined chestnut	Coder, Highishoe,

hophornbeam	virginiana		borer will attack following disturbance. Response is site dependent.	Sydnor
Sourwood	Oxydendrum arboreum	Moderate	Windfirm.	Sydnor
Sourwood	Oxydendrum arboreum	Poor	_	Coder
Empress-tree	Paulownia tomentosa	Good	Tolerant of site disturbance.	Sydnor
Redbay	Persea borbonia	Good	_	Coder
Norway spruce	Picea abies	Moderate	Often windthrows. Intolerant of root loss.	Sydnor.
White spruce	Picea glauca	Moderate	Tolerant of root loss. Intermediate in tolerance to saturated soils.	Hightshoe
Black spruce	Picea mariana	Good	Tolerant of root loss and saturated soils.	Hightshoe
Colorado spruce	Picea pungens	Moderate	Intolerant of saturated soils. Intermediate in tolerance to root loss. Often windthrows.	Day, Hightshoe, Sydnor
Pinckneya	Pinckneya pubens	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Jack pine	Pinus banksiana	Good	Tolerant of root loss. Intolerant of saturated soils.	Hightshoe, Sydnor
Canary Island pine	Pinus canarlensis	Good	Tends to have sinker roots close to trunk.	Ellis
Shortleaf pine	Pinus echinata	Moderate- good	Pest problems associated with development impacts. Tolerant of	Coder, Sydnor

			some fill soil.	
Plnyon pine	Pinus edulis	Moderate	Tolerant of root pruning. Intolerant of saturated and poorly drained soils.	Day
Slash pine	Pinus elliottii	Good	-	Coder
Spruce pine	Pinus glabm	Good	_	Coder
Austrian pine	Pinus nigra	Good	Tolerant of some fill and root pruning/injury.	Day, Sydnor
Longleaf pine	Pinus palustris	Moderate- good	Limited tolerance to microclimate change. Tolerance greatest within native range.	Coder
Ponderosa pine	Pinus ponderosa	Good	Tolerant of fill within dripline and root pruning. Intolerant of poor drainage, overwatering, and high-soluble salts.	Day
Table mountain pine	Pinus pungens	Moderate-	Limited tolerance to microclimate change. Tolerance greatest within native range.	Coder
Monterey pine	Pinus radiata	Moderate	Requires supplemental irrigation following disturbance.	Ellis
Red pine	Pinus resinosa	Good	Tolerant of root loss. Intolerant of saturated solls.	Hightshoe, Sydnor
Pitch pine	Pinus rigida	Good		Coder, Sydnor
Digger pine	Pinus sabiniana	Moderate	_	Matheny & Clark
Pond pine	Pinus serotina	Good	_	Coder

White pine	Plnus strobus	Moderate	Tolerant of root loss. Intolerant of saturated soils or changes in soil moisture. Response often site dependent.	Coder, Hightshoe, Sydnor
Scots pine	Pinus sylvestris	Good	Tolerant of root loss. Intolerant of saturated soils.	Hightshoe, Sydnor
Loblolly pine	Pinus taeda	Moderate- good	Moderate tolerance to root loss. Intolerant of saturated soils. Injury increases susceptibility to southern pine beetle.	S. Clark, Coder, Sydnor
Virginia pine	Pinus virginiana	Poor- moderate	Prone to windthrow and root decay.	Matheny & Clark, Sydnor
Virginia pine	Pinus virginiana	Good	_	Coder
Planer tree	Planera aquatica	Good		Coder
London plane	Platanus x acerifolia	Poor or good	Response appears to be location dependent. In eastern U.S., stress intolerant in northern part of range. In California, very tolerant. Benefits from supplemental irrigation.	Matheny & Clark, Sydnor
Eastern sycamore	Platanus occidentalis	Moderate	Intermediate tolerance to construction damage. Moderate tolerance of fill soil.	S. Clark, Sydnor
Eastern sycamore	Platanus occidentalis	Good		Coder
Western sycamore	Platanus racemosa	Moderate	_	Matheny & Clark
Poplars	Populus spp.	Good	Show considerable resistance to	Gilbert

			"contractor pressures."	
Eastern cottonwood	Populus deltoides	Moderate- good	Intermediate to good tolerance of root loss, fill soil, and saturated soils.	S. Clark, Coder, Hightshoe, Sydnor
Western cottonwood	Populus fremoutii	Poor	Prone to windthrow and decay.	Matheny & Clark
Bigtooth aspen	Populus grandidentata	Poor- moderate	Tolerant of root loss. Intolerant of saturated soils.	Hightshoe, Sydnor
Lombardy poplar	Populus nigra 'Itallea'	Moderate- good	Tolerant of minor amounts of fill. Intolerant of changes in soil moisture. Decays rapidly. Susceptible to windthrow.	Beck
Plains cottonwood	Populus sargentii	Moderate	Defoliation and dieback may follow excessive root loss. Intolerant of crown reduction pruning. Supplemental irrigation required following root Injury. Tolerant of some grade change.	Day
Quaking aspen	Populus tremuloides	Moderate	Tolerant of root loss. Intolerant of saturated soils.	Day, Hightshoe
Black cottonwood	Populus trichocarpa	Poor	Mature trees prone to windthrow and trunk failure.	Peepre
American plum	Prunus americana	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Chickasaw plum	Prunus angustifalia	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil	Coder

			aeration and water availability.	
Carolina laurelcherry	Prunus caroliniana	Good	_	Coder
Canada plum	Prunus nigra	Moderate	Toletant of root loss. Intolerant of saturated soils.	Hightshoe
Fire cherry	Prunus pensylvanica	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Black cherry	Prunus serotina	Poor	Intermediate tolerance to root loss. Intolerant of saturated soils. Select young, vigorous individuals for preservation.	Hightshoe, Sydnor
Black cherry	Prunus serotina	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Flatwoods plum	Prunus umbellata	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Douglas fir	Pseudotsuga menziesii	Poor-good	Tolerant of fill soil if limited to one-quarter of root zone. However, may decline slowly following addition of fill. Tolerates root pruning. Intolerant of poor drainage. Susceptible to bark beetles following injury.	Beck, Dunster
Hoptree	Ptelea trifoliata	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Callery pear	Pyrus calleryana	Moderate	Intolerant of root pruning.	Fraedrich
Oaks	Quercus spp.	Moderate	<u> </u>	Gilbert
Coast live oak	Quercus agrifolia	Good	Sensitive to addition of fill soil around base of trunk. Intolerant of frequent summer irrigation. Bark	Matheny & Clark

			is sensitive to sunburn following pruning.	
White oak	Quercus alba	Poor	Intolerant of root loss and saturated soils.	Hightshoe
White oak	Quercus aiba	Moderate	_	S. Clark
White oak	Quercus alba	Good	A common survivor of construction activity. Moderate tolerance to fill soil. Response constrained by soil aeration and water availability.	Coder, Sydnor
Swamp white oak	Quercus blcolor	Good	Tolerant of some fill.	Day, Sydnor
Scarlet oak	Quercus coccinea	Poor- moderate	Intolerant of construction injury.	S. Clark, Sydnor
Scarlet oak	Quercus coccinea	Good	_	Coder
Durand oak	Quercus durandii	Good		Coder
Southern red	Quercus falcata	Moderate- good	Largely intolerant of construction injury.	S. Clark, Coder, Sydnor
Cherrybark oak	Quercus falcata var. pagodaefolia	Good	_	Coder
Oregon white	Quercus garryana	Good	_	Bell, Matheny & Clark
Shingle oak	Quercus imbricaria	Good		Sydnor

Bluejack oak	Quercus incana	Good	_	Coder
California black oak	Quercus kelloggii	Moderate	_	Matheny & Clark
Turkey oak	Quercus laevis	Good	_	Coder
Laurel oak	Quercus laurifolia	Moderate	Subject to nutritional problems when alkaline subbase is used. Intolerant of extreme variation in moisture. Poor compartmentalization response.	Siebenthaler
Valley oak	Quercus lobata	Moderate	Intolerant of summer irrigation and fill soil.	Matheny & Clark
Overcup oak	Quercus lyrata	Good	_	Coder
Bur oak	Quercus macrocarpa	Moderate	Relatively tolerant of root injury, although may be associated with crown dieback. Supplemental irrigation required following root injury. Intermediate tolerance to saturated soils (prairie areas, U.S.).	Day, Hightshoe
Bur oak	Quercus macrocarpa	Good	Tolerant of fill and compacted soils (eastern U.S.)	Sydnor
Blackjack oak	Quercus marilandica	Good	_	Coder
Swamp chestnut oak	Quercus michauxii	Good	_	Coder
Chinquapin oak	Quercus muchienbergii	Good	Tolerant of site disturbance.	Coder, Sydnor
Water oak	Quercus nigra	Good	Tolerant of saturated soils.	Coder, Sydnor

Pin oak	Quercus palustris	Moderate- good	Intermediate tolerance of root loss and saturated soils.	S. Clark, Hightshoe, Sydnor
Willow oak	Quercus phellos	Moderate- good	Response constrained by soil aeration and water availability.	Coder, Sydnor
Chestnut oak	Quercus prinus	Moderate- good	Response constrained by soil aeration and water availability. Tolerant under good growing conditions.	Coder, Sydnor
Northern red oak	Quercus rubra	Moderate- good	Response constrained by soil aeration and water availability. Limited tolerance to microclimate change. Tolerance greatest within native range. Tolerant of root loss.	Coder, Hightshoe, Sydnor
Shumard oak	Quercus shumardii	Good	_	Coder, Sydnor
Post oak	Quercus stellata	Poor-good	Variation may be geographic in origin; poor in south, good in mideastern U.S. (Ohio).	S. Clark, Coder, Sydnor
Black oak	Quercus velotina	Moderate	Intolerant of root loss and saturated soils.	Hightshoe, Sydnor
Black oak	Quercus velutina	Good	_	Coder
Live oak	Quercus virginlana	Good	High tolerance for various soil types as well as trenching, compaction, and drought. Good compartmentalization response. Limited tolerance to site change. Tolerance greatest within native range.	Coder, Siebenthaler, Sydnor
Carolina	Rhamnus	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder

buckthom	caroliniana		Response constrained by soil aeration and water availability.	
Catawba rhododendron	Rhododendron catawbiense	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Rosebay rhododendron	Rhododendron maximum	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Shining sumae	Rhus copallina	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Smooth sumac	Rhus glabta	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder
Staghorn sumae	Rhus typhina	Good	Regenerates quickly from root sprouts following disturbance.	Sydnor
Black locust	Robinia pseudoacacla	Good	Tolerant of root loss and fill soil. Intolerant of saturated soils. Sensitive to borers when stressed.	Hightshoe, Sydnor
Willow	Salix spp.	Moderate- good	Moderately tolerant of root pruning and fill soil. Show considerable resistance to "contractor pressures."	Day, Fraedrich, Gilbert
Weeping willow	Salix babylonica	Moderate- good	Disturbance may lead to cankering. Tolerant of some fill. Increased likelihood of windthrow with saturated soils.	S. Clark, Sydnor
Coastal plain willow	Salix caroliniana	Good	_	Coder
Black willow	Salix nigra	Good	Tolerant of root loss and saturated soils. Tolerant of some fill.	Coder. Hightshoe, Sydnor

Silky willow	Salix sericea	Good	_	Coder
American elder	Sambucus canadensis	Poor	Response is site dependent.	Coder
Sassafras	Sassafras albidum	Good	Regenerates from root suckers following disturbance.	Coder, Sydnor
California peppertree		Schinus molie	Moderate	Ellis
Coast redwood	Sequoia sempervirens	Good	Supplemental irrigation required if located out of native range, as well as during construction and following injury.	Matheny & Clark
Glant redwood	Sequoiadendron giganteum	Moderate	Intolerant of summer irrigation and fill soil.	Matheny & Clark
Mountain ash	Sorbus aucuparia	Moderate	Tolerant of root loss. Intermediate in tolerance to saturated soils.	Hightshoe
American bladdernut	Stophylea trifolia	Good	_	Coder
Virginia stewartia	Stewartia malacodendron	Good	_	Coder
Mountain stewartia	Stewartia ovata	Good	_	Coder
American snowbell	Stytax americana	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil aeration and water availability.	Coder
Bigleaf snowbell	Styrax grandifolia	Moderate	Intolerant of mechanical injury (poor compartmentalization). Response constrained by soil	Coder

White basswood	Tilia heterophylla	Poor	Response is site dependent.	Coder
Carolina basswood	Tilia caroliniana	Poor	Response is site dependent.	Coder
Basswood	Tilia americana	Poor	Tolerant of root loss. Intolerant of saturated soils. Intolerant of site disturbance and fill.	Hightshoe, Sydnor
Linden	Tilia spp.	Moderate- good	Moderately tolerant of root pruning. Considerable resistance to "contractor pressures."	S. Clark, Gilbert, Fraedrich
Western red	Thuja plicata	Poor- moderate	Response is very site dependent, probably related to soil moisture. Intolerant of fill.	Beck, Dunster
Western red	Thuja plicata	Good	Relatively windfirm. Intolerant of changes in water table/soil moisture.	Peepre
Northern white cedar	Thuja occidentalis	Good	Tolerant of root loss, some fill, and saturated soils.	Hightshoe, Sydnor
Pond cypress	Taxodium distichun var. nutans	Good	_	Coder
Bald-cypress	Taxodium distichum	Good	Adapts readily to wide range of soils, wet to dry, sandy to heavy. Tolerant of alkaline soils. Trunk does not disturb pavement but knees may emerge in yards.	S. Clark, Coder, Slebenthaler
Common sweetleaf	Symplocos tinctoria	Good	Intolerant of mechanical injury (poor compartmentalization).	Coder
			aeration and water availability.	

Sparkleberry	Vaccinium	Moderate	Response is site dependent.	Coder
California bay	Umbellalaria californica	Moderate	Intolerant of fill soil.	Matheny & Clark
Slippery elm	Ulmus rubra	Moderate	Pest problems associated with development impacts (southeastern U.S.)	Coder
Slippery elm	Ulmus rubra	Good	Tolerant of root loss. Intermediate in tolerance to saturated soils.	Hightshoe
Siberian elm	Ulmus pumila	Good	Tolerant of fill soil, root pruning, injury, a wide range of soil moisture conditions, and high-soluble salts.	Day
American elm	Ulmus americana	Moderate	Pest problems associated with development impacts (southeastern U.S.).	Coder
American elm	Ulmus americana	Good	Tolerant of root loss and site disturbance. Intermediate in tolerance to saturated soils.	Day, Hightshoe, Sydnor
Winged elm	Ulmus alata	Good	_	Coder
Elm	Ulmus spp.	Good	Tolerant of root pruning.	Fraedrich
Western hemlock	Tsuga heterophylia	Poor- moderate	Prone to windthrow, decay, and dwarf mistletoe. Intolerant of grade change. Poor compartmentalization.	Beck, Dunster, Peepre
Eastern hemlock	Tsuga canadensis	Poor	Intolerant of fill and saturated soils.	Coder, Sydnor
Poison sumac	Toxicodendron vemix	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder

	arboreum			
Possumhaw viburnum	Viburnum nudum	Good	_	Coder
Walter's viburnum	Viburnum obovatum	Good	_	Coder
Rusty black haw	Viburnum rufidulum	Good		Coder
Hercules club	Zanthoxylum clava-herculis	Moderate	Intolerant of mechanical injury (poor compartmentalization).	Coder

REFERENCES

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Siebenthaler, J. 1996. Clearwater, FL. Personal communication.

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TREE PROTECTION AREA

Machinery, Dumping, Construction, Parking, or Storage of Any Materials is **PROHIBITED**

By City of Winter Springs

Violators are subject to municipal infraction citations of up to \$5000 per violation.

Enforced by the City of Winter Springs Pursuant to Chapter 5 of the City Code

Tree Protection Area Signage

The sign shall be made of rigid material such as wood, metal or durable plastic. Non-rigid materials such as paper, cardboard, cellophane or foil are not acceptable. The sign shall be two (2) feet wide by three (3) feet long.

Section 3. Conforming Code Amendment. The following conforming amendments are hereby by expressly made to other applicable provisions of the City Code:

- 1. Chapter 20, Zoning, Article VI S.R. 434 Corridor Vision Plan, Table 1 (Recommended Shrub Pallet) and Table 2 (Recommended Tree Pallet) are hereby repealed and deleted for the City Code in their entirety.
- 2. Section 11-4. Injuring city owned shade trees is hereby repealed and deleted from the City Code in its entirety.
- <u>Section 4.</u> Repeal of Prior Inconsistent Ordinances and Resolutions. All prior inconsistent ordinances and resolutions adopted by the City Commission, or parts or ordinances and resolutions in conflict herewith, are hereby repealed to the extent of the conflict.
- <u>Section 5.</u> Incorporation into Code. This Ordinance shall be incorporated into the Winter Springs City Code and any section or paragraph, number or letter, and any heading may be changed or modified as necessary to effectuate the foregoing. Grammatical, typographical, and like errors may be corrected and additions, alterations, and omissions, not affecting the construction or meaning of this ordinance and the City Code may be freely made.
- <u>Section 6.</u> Severability. If any section, subsection, sentence, clause, phrase, word, or provision of this ordinance is for any reason held invalid or unconstitutional by any court of competent jurisdiction, whether for substantive, procedural, or any other reason, such portion shall be deemed a separate, distinct and independent provision, and such holding shall not affect the validity of the remaining portions of this ordinance.

Section 7. Effective Date. This Ordinance shall become effective upon adoption by the City Commission of the City of Winter Springs, Florida, and pursuant to City Charter.

[Adoption page Follows]

ADOPTED by the City Commission of meeting assembled on the day of June, 2020	the City of Winter Springs, Florida, in a regular
	Charles Lacey, Mayor
ATTEST:	
Christian Gowan, Interim City Clerk	
APPROVED AS TO LEGAL FORM	
AND SUFFICIENCY FOR THE CITY OF WINTER SPRINGS ONLY:	
Anthony A. Canganasa City Attamay	
Anthony A. Garganese, City Attorney	
Legal Ad:	
First Reading:	
Second Reading:	