

Grand Oak Ordinance Standards

- 1. The developer shall preserve all trees identified as a grand oak unless authorized for removal by the Administrator. This provision shall not apply for a grand oak located in road site distances, recovery and maintenance areas as shown in the Transportation Technical Manual unless the County Engineer, otherwise, renders a determination that a grand oak may be preserved in these areas.
- 2. The developer shall be required to replace 50 percent of the total DBH of any tree having a DBH of 24 inches or greater or any clump of trees, as defined in this Code, that is to be removed from the site. Irreparably unhealthy or damaged trees, as determined by the Administrator, shall not require replacement. If the tree removed is a species which either has undesirable growth habits or is susceptible to freeze damage, as determined by the Administrator, replacement shall not be required. A grand oak, however, shall be replaced as indicated below if authorized for removal by the Administrator.

Grand oak trunk measurement	Replacement Ratio (in DBH)
34" < 48" DBH	1:1
48" < 60" DBH	1.5:1

60" DBH and greater 2:1

This replacement requirement, however, shall not apply when the Administrator has determined that Section 4.01.14.A.4.b of this Code is applicable. Replacement of a grand oak for these situations shall not exceed 20% of the DBH trunk diameter unless a lesser amount is appropriate as determined by the Administrator.

3. Pruning of a grand oak, with the exception of minor pruning, is prohibited unless conducted in accordance with the ANSI A 300 Pruning Standards. It is recommended to be performed by an Arborist certified by the International Society of Arboriculture (ISA) or a Registered Consulting Arborist with the American Society of Consulting Arborists (ASCA).

An ISA Certified Arborist or an ASCA Registered Consulting Arborist contracted by a property owner to prune a grand oak shall assume full responsibility for all pruning activities determined in noncompliance with standards specified within the Land Development Code.

DEFINITIONS

<u>Grand Oak</u>: A Grand Oak is a tree of the genus Quercus with a trunk measuring 34" DBH and greater, a condition rating of good or better in accordance to the Tree Condition Evaluation Form referenced as Exhibit 4.1.6.1.a of the Development Review Manual, and whose trunk circumference, height and crown measurements are of the size and character to total a minimum 175 points in accordance to the Tree Point System methodology defined by this Code.

<u>Tree Point System</u>: The tree point system classifies the significance of a tree species through three measurements of a tree's anatomy and asserts a point value for each measurement. One (1) point per inch is allotted for the tree trunk circumference to the nearest inch measured at 4.5 feet above grade, one (1) point per foot is allotted for the tree's overall height to the nearest foot measured vertically from a point level with the base of the highest twig and one (1) point per four (4) feet is allotted for the crown spread to the nearest foot averaging a measurement of the longest and shortest diameters of the tree canopy.

Minor Pruning: The pruning of a tree by removing branches measured no greater than 3 inches in diameter at the point of connection to a supporting branch and in accordance to the American National Standards Institute (ANSI) A 300 Pruning Standards.

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Hillsborough Grand Oak Point System and County Florida Condition Evaluation Form

POINT SYSTEM

Grand Oak: A Grand Oak is a tree of a genus Quercus with a trunk measuring 34" DBH (tree trunk diameter measurement at 4.5 feet above grade) and greater with a tree condition rating of good or better and with trunk circumference, height and crown measurements totaling a minimum of 175 points in accordance to the Tree Point System methodology.

Tree Point System: The Tree Point System classifies the significance of a tree through three measurements of the tree's anatomy and asserts a point value for each measurement. One (1) point per inch is allotted for the tree trunk circumference to the nearest inch measured at 4.5 feet above grade, one (1) point per foot is allotted for the tree's overall height and one (1) point per four (4) feet is allotted for the crown spread to the nearest foot averaging a measurement of the longest and shortest dimension of the tree's canopy.

Feet

Circumference

(14'7" will equal 175 points)

Circumference: Using a standard measure, tape measure the distance around the tree trunk and this will provide the circumference. If the tree has co-dominant trunks, measure each trunk at 4.5 feet above the ground surface and add them together unless the piths of each trunk merge at a point above the root collar. In this circumstance, measure the narrowest point of the supporting trunk below the point of pith mergence to obtain the tree trunk circumference. This inch measurement is the total circumference point score for the tree. If it is equal to or over 175 inches, the Tree Point Score for the definition of a Grand Oak is met and no other measurements are required. (Measuring the tree trunk diameter will require multiplying this measurement by 3.14 to obtain the tree trunk circumference).

Inches

Height: Equipment that could be used is a 100' plus reel tape, ground spike and a clinometer. First place the ground spike at the base of the tree and attach the tape. Measure 100' away from the tree. Using a clinometer view the top of the tree. Read the right side scale on the rotating wheel. This is your measurement in feet. If you are on level ground, no other measurement is needed. If

the ground is not level, vereads positive or negative positive subtract it from trees measure out from	e. If the number is your height score.	negative, add Where obsta	that to your heig	_
Measurement taken at			Adjustment	Height Points
100′	Top in feet Base in feet			
50' (divide measurement by 2)	Top in feet Base in feet			
200' (multiply measurement by 2)	Top in feet Base in feet			
Crown Spread: Observe feet, both from dripline	• •			vest points. Measure, in 4 to get the spread score.
Widest	Narrowest		Average	Spread Points
			Grand	Total Points

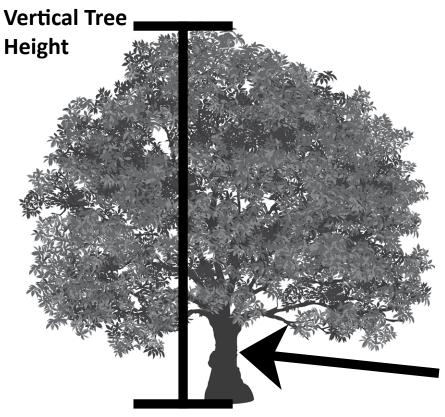
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Circumference Points

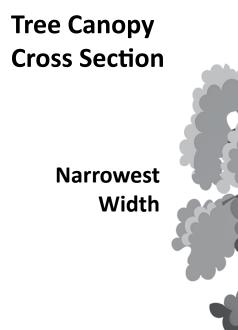


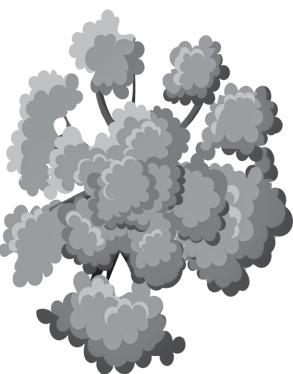
Grand Oak Point System and Condition Evaluation Form

Tree Measurement Visual Guide



Tree Circumference
To be measured approximately
4.5 feet above the ground





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Tree Condition Evaluation For Certified Arborist Use Only

trunk, ms (4

A tree's condition is determined from the sum of the condition points established from the rating of a tree's roots limb/branch structure, twigs and foliage. The condition point system is structured as follows: no apparent proble points), minor problems (3 points), major problems (2 points) and extreme problems (1 point).		
ROOTS • Root anchorage		
 Restricted root system relative to canopy 		
Mechanical injury		
Girdling roots		
 Compaction or water-logged roots 		
 Presence of insects or diseases 	Condition points	
TRUNK		
 Sound bark and wood, no cavities 		
 Upright trunk (well tapered) 		
 Included bark between co-dominant stems 		
Mechanical or fire injury		
• Cracks		
Swollen or sunken area	Constitution and the	
 Presence of insects and diseases 	Condition points	
LIMB AND BRANCH STRUCTURE		
 Strong attachments, no included bark 		
 Free of decay and cavities 		
Well proportioned, good form		
Wound closure		
Dead limbs/epicormic sprouting	Condition	
 Presence of decay, insects and diseases 	Condition points	
TWIGS		
 Shoot vigor compared to past 3-year growth 		
Presence of weak or dead twigs		
 Presence of insects and diseases 	Condition points	
FOLIAGE		
 Normal appearance (size, color, density) 		
 Nutrient deficiencies 		
Herbicidal, chemical injury symptoms		
Wilted or dead leaves		
 Presence of insect or disease 	Condition points	
	Total Condition Points	
TREE CONDITION RANKING: The ranking does not incorportudes an evaluation of the tree's canopy from the ground		nd in

Total Points 18-20 15-17 12-14 11 or less	<u>Condition</u> Excellent Good Fair Poor	Evaluated by:
		Application Number:

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