ORDINANCE SUMMARY WIRELESS ANTENNAS, TOWERS AND EQUIPMENT FACILITIES

This ordinance proposes to amend Chapters III of the Lake County Land Development Regulations (LDR), entitled "Zoning District Regulations", to update and clarify Section 3.13.00, entitled "Wireless Antennas, Towers and Equipment Facilities", to provide for regulations concerning emergency communication towers near airports, towers within Ferndale, towers and antennas within the Pinecastle Military Operation Area, towers within the Emergency Communication Corridor, variance request reviews on towers over 200 feet, providing for examples of tower types and camouflaged towers and providing for five tower maps.

1 2

Changes are shown as follows: Strikethrough for deletions and <u>Underline</u> for additions to existing Code sections. Renumbering and/or relettering were added as needed.

Ordinance No. 2013-____

AN ORDINANCE OF THE BOARD OF COUNTY COMMISSIONERS OF LAKE COUNTY, FLORIDA; AMENDING THE LAKE COUNTY CODE, APPENDIX E, LAND DEVELOPMENT REGULATIONS; AMENDING CHAPTER III, ENTITLED "ZONING DISTRICT REGULATIONS", SECTION 3.13.00, ENTITLED "WIRELESS ANTENNAS, TOWERS AND EQUIPMENT FACILITIES" IN ORDER TO PROVIDE REQUIREMENTS OF THE LAKE COUNTY 2030 COMPREHENSIVE PLAN, TO PROVIDE FOR REGULATIONS CONCERNING EMERGENCY COMMUNICATION TOWERS NEAR AIRPORTS, PROVIDE FOR REGULATIONS FOR TOWERS WITHIN FERNDALE, PROVIDE FOR REGULATIONS FOR TOWERS WITHIN THE EMERGENCY COMMUNICATION CORRIDOR, PROVIDE FOR VARIANCE REQUEST REVIEWS ON TOWERS OVER 200 FEET, AND TO PROVIDE FOR FIVE TOWER MAPS AND; PROVIDING FOR SEVERABILITY; PROVIDING FOR INCLUSION IN THE CODE; PROVIDING FOR FILING WITH THE DEPARTMENT OF STATE; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, on September 22, 2011, the Lake County 2030 Comprehensive Plan became effective, requiring the Land Development Regulations to be updated; and

WHEREAS, Policy I-1.1.8 of the 2030 Comprehensive Plan requires the County to adopt and maintain a set of specific and detailed Land Development Regulations that implement and are consistent with the goals, objectives and policies of the Comprehensive Plan; and

WHEREAS, on November 11, 2011, the Board of County Commissioners approved the Land Development Regulation Work Program; and

WHEREAS, the amendments to Chapter III of the LDR, entitled "Zoning District Regulations", which includes provisions regarding Wireless Antennas, Towers and Equipment Facilities, is scheduled on the second year Agenda for the Land Development Regulations Work Program; and

1	WHEREAS, the Planning & Zoning Board, in its capacity as the Local Planning Agency,			
2	considered this ordinance and recommended approval at a properly advertised public hearing			
3	on; and			
4	WHEREAS, the Board of County Commissioners (the "Board") desires to amend Chapter III,			
5	LDR, to amend regulations pertaining to wireless antennas, towers and equipment facilities;			
6				
7	NOW, THEREFORE, BE IT ORDAINED by the Board of County Commissioners of Lake			
8	County, Florida, that:			
9	Section 1. Recitals. The foregoing recitals are true and correct and incorporated			
10	herein by reference.			
11	Section 2. Amendment. Section 3.13.00, Lake County Code, Appendix E, Land			
12	Development Regulations, entitled "Wireless Antennas, Towers and Equipment Facilities", shall be			
13	amended to read as follows:			
14	differed to read as follows:			
15	3.13.00 Wireless Antennas, Towers and Equipment Facilities.			
16				
17	3.13.01 Purpose and Intent. The purpose and intent of these regulations is to:			
18				
19	A. Adapt to the growing need for wireless communication antennas and towers by being			
20	able to act upon requests to place, construct and modify any Wireless Communications			
21 22	Antenna and/or Tower within a reasonable amount of time.			
23	B. Reasonably accommodate amateur Communications, and to represent the minimum			
24	practicable Regulation thereof.			
25	practicable Regulation mercon.			
26	C. Protect existing Land Uses from potential adverse visual impacts through sound			
27	planning, careful review of applications, proper permitting and adherence to			
28	appropriate Regulations.			
29				
30	D. Allow for Wireless Communications competition following the adoption of the Federal			
31	Telecommunications Act of 1996.			
32 33	E. Preserve and enhance radio communications throughout Lake County in times of			
34	emergencies that threaten the life, safety and welfare of Lake County residents,			
35	business and properties to include the establishment of easements, covenants and			
36	agreements necessary to address issues, such as fiber-optic cabling, associated with			
37	the provisions of emergency communication(s).			
38				
39	These Regulations are intended to accomplish these is goals through careful design, Siting,			
40	Landscape Screening and the encouragement of innovative camouflaging techniques.			
41 42	3.13.02 Compliance with County, State and Federal Other Laws and Regulations. All			
42 43	Communications Towers Antennas and Fauinment Shall comply with:			

- A. The Lake County Comprehensive Plan and Land Development Regulations.
- B. All applicable fire safety codes, building codes, and technical codes adopted by Lake County.
- C. All applicable Federal and State Regulations. At a minimum, permit applications for the location or installation of communication towers, antennas and equipment shall include the following, if applicable to their proposal:
 - Θ_1 . Evidence of compliance with the Federal Aviation Administration (FAA) requirements Shall be submitted, where applicable. This evidence Shall include a copy of the appropriate submitted FAA Form, 7460-1, attachments submitted with the form, and a copy of any FAA responses.
 - 2. Federal Aviation Administration aeronautical study/obstruction evaluation required for a tower that exceeds 200 feet above ground level.
 - 3. Federal Aviation Administration obstruction evaluation study, which may be required if a tower is proposed within an Airport Notification Area as shown on the maps at the end of this section, identified as Tower Maps 1, 2 and 3. FAA's Obstruction Evaluation Airport Airspace Analysis shall be used to determine if it is necessary to file an obstruction evaluation study with the FAA. Specific guidelines for determining the compatibility of the height of objects around public-use airports is based on Federal Aviation Regulations (FAR) Title 14, Part 77, Objects Affecting Navigable Airspace.
 - 4. Florida Department of Transportation (FDOT) permitting is required for all proposed structures that are over 200 feet above ground level and are proposed to be located within 10 nautical miles of any public-use airport, measured from the airport reference point (center of airport) as shown on the maps at the end of this section, identified as Tower Maps 1, 2 and 3.

3.13.03 Structural Design.

- A. All Communications Towers must be designed so that in the event a Communications Tower falls, it Shall collapse only within the property lines of the Lot on which the Communications Tower is located. No Building Permit Shall be issued unless the applicant provides verification of compliance from an engineer registered by the State of Florida.
- B. To ensure the structural integrity of Wireless Communications Towers, the owner of a Wireless Communications Antenna and/or Tower Shall ensure that it is constructed and maintained according to TIA/EIA-Standard 222, as amended from time to time, ASCE-7, as amended from time to time, and all County adopted construction/building codes. No building permit Shall be issued unless the applicant submits site plans sealed and verified by an engineer licensed in the State of Florida that proves compliance with the adopted structural codes in effect at the time of said improvement or addition.
- C. Applicants for new communication towers are encouraged to reserve space to

accommodate the placement of any needed emergency communication apparatus and/or device(s) on the structure or the ground compound as deemed necessary by the Lake County Public Safety Department.

<u>DC.</u>Camouflaged Wireless Communications Structures.

- Camouflaged Wireless Communications Structures designed to blend in with the existing built or Natural Environment, as determined by the County Manager or designee, are exempt from the <u>Fencing and Landscaping</u> requirements of <u>this Section.3.13.10 Fencing</u>, and 3.13.11 Landscaping
- Camouflaged Wireless Communications Structures Shall comply with all other Regulations and standards. In making the determination that a Wireless Communications Structure is considered to be camouflaged, the County Manager or designee Shall consider:
 - a. Logic of design.
 - b. Height in relationship to the height of nearby Structures.
 - c. Scale in relationship to the size and proportions of nearby Structures.
 - d. Structure materials and color selection.
 - e. Compatibility with surrounding Uses.
- 3. There are numerous ways to camouflage a wireless communication tower, below are a few examples of camouflaged wireless communication towers/structures:





3.13.04 Radiation Emission Standards. The Communications Tower and Communication Antennae must meet the radiation emission standards set by the FCC. The applicant Shall provide evidence that the Communications Tower and Communication Antennae meet the FCC standards where applicable.

3.13.05 Towers within Ferndale. Communication towers within the Ferndale Community shall be camouflaged or housed within traditional structures, such as church steeples or flag poles, or otherwise disguised to protect viewscapes, where possible, as determined by the County Manager or designee.

- 3.13.06 Towers and Antennas within the Pinecastle Military Operation Area. The U.S. Navy Pinecastle Range Complex (Range) Military Operations Area (MOA) is the special use airspace designated by the Federal Aviation Administration and utilized by the U.S. Military for training and exercises overlying parts of northern Lake County and administered by the United States Navy. A map showing the location of the MOA is located below (Tower Map 4). The following shall apply within the MOA:
- A. Towers within the Pinecastle Operation Area shall be limited to self-supporting towers; and
- B. The County shall coordinate with the Navy when an application to place a tower or antenna within the MOA is submitted; and
- C. Written evidence from the Range that the location, height and operation of the tower or antenna does not adversely affect the operations and mission of the Range will be required; and
- D. A tower or antenna shall not be approved by the County if the Range certifies that the tower or antenna would constitute an unacceptable encroachment or interference with safe operations related to the mission of the facility.

3.13.<u>07</u>05 Amateur Radio Station Operators/Receive Only <u>Towers/</u>Antennas <u>and Wireless (Wi-Fi) Towers.</u>

- A. <u>Wireless (Wi-Fi) Towers, or</u> Wireless Communications Towers, Antennas and Equipment Facilities owned and operated by a federally-licensed amateur radio station operator or which are used exclusively for receive only antennas <u>shall be permitted as follows:</u>
 - 1. Towers/Antennas up to one hundred (100) feet in height Shall be permitted in all Zoning Districts.
 - 2. Theses—Towers/—and—Antennas up to two hundred (200) feet in height Shall be permitted on lots containing a minimum of five (5) acres in the A, RA, A-1-20, A-1-40 Zoning Districts—Rural, Rural Transition, A-1-20 Receiving/Sending Areas, A-1-40 Sending Area and in the Green Swamp Area of Critical State Concern Rural, Rural/Conservation and Core/Conservation Future Land Use Categories.elassifications. The maximum height permitted in all cases—is subject to FAA review and approval.
- B. Setbacks Shall be measured from the base of the Wireless Communications Tower to the property line of the parcel on which it is located. Normal Zoning District setbacks Shall apply.
- C. Anti-climbing devices Shall be installed on each tower.
- D. No other provisions of <u>Section</u> 3.13 Shall apply to <u>Wi-Fi or</u> Amateur Radio Station operators/receive only antennas with the exception of 3.13.02, Compliance with Other Laws and Regulations, and -3.13.04, Radiation Emission Standards, <u>3.13.05</u> Towers Within the Ferndale Community and 3.13.06 Towers and Antennas within the Pinecastle Military Operation Area., where applicable/

3.13.0806 Measurement and Lot Size.

- A. Measurement. For purposes of measurement, tower setbacks and separation distances Shall be calculated and applied to Facilities located in Lake County <u>regardless</u> irrespective of Municipal and County jurisdictional boundaries.
- B. Lot Size. For purposes of determining whether the installation of a Tower or Antenna complies with district—development regulations, including but not limited to Setback Requirements, lot-coverage Requirements, and other such requirements, the dimensions of the entire lot Shall control, even though the antennas or towers may be located on leased parcels within such lot.
- 3.13.09 Zoning. A Conditional Use Permit shall be required for the placement of a Telecommunication Tower, unless the property is within the Community Facility District (CFD) Zoning District. A CFD zoning ordinance may be amended to support the use of the telecommunication tower and equipment.

3.13.1007 Setbacks.

A. Equipment facility and guyed support structures shall have to meet a setback of twenty-five (25) feet from property lines or the Zoning District setback, whichever is greater.

B. Towers Shall be:

- Ceentered within the boundaries of the Property recognized as the parent parcel on the <u>official</u> zoning map; by the Department of Growth Management,
- 2. mMaintain a minimum setback of one hundred (100) feet from the Property Line;
- 3. <u>Be and be measured and reported using Global Position System coordinates for the center of the Tower</u>; and
- 4. if applicable, Shall meet both the requirements in Table 1 below:

Tower Table 1 - Additional Tower Setbacks

	From R1, R2, R3, R4, R6, R7, R10, RP,	From any Single_Family
	RMRP, RM, Residential or PUD Zoned	or Duplex Residential
	Lands (or similar municipal zonings) in	Unit
	the <u>Urban Low, Urban Medium, Urban</u>	
	High, Mt. Plymouth-Sorrento Main	
	Street, Mt. Plymouth-Sorrento Receiving	
	Area or Green Swamp Ridge Future	
	Land Use Caategories, and in similar	
	municipal zonings and land use	
	<u>categories.</u> <u>Urban, Urban Expansion,</u>	
	Rural Village, Mount Plymouth-Sorrento	
	Urban Compact Node, Ridge,	
	Transitional	
Lattice	1320 feet	1320 feet
Guyed	1320 feet	1320 feet
Monopole	330 feet	400% of the tower
		height
Camouflage	100 feet	100 feet

If the Owner of the Property where the Tower is to be located owns Residential units thereon or on surrounding properties (or if such properties are owned by his or her parents or children and they have consented in writing), those units Shall not be taken into consideration when calculating the Setback requirements of this section.

3.13.1109 Separation between Towers.

A. Wireless Communications Tower separation Shall be measured using Global Position System (GPS) coordinates for the center of the Tower. Wireless Communications Towers Shall meet the following separation requirements:

Tower Table 2 - Wireless Communications Tower Separation

Existing Tower	Proposed Tower Type			
Туре				
	Lattice or	Guyed	Monopole	Monopole 150 or
	Self-		>150	less
	Supporting			
Lattice or Self-	5,000 feet	5,000	3,500 feet	500 feet
Supporting		feet		
Guyed	5,000 feet	5,000	3,500 feet	500 feet
		feet		
Monopole > 150	3,500 feet	3,500	1,500 feet	500 feet
		feet		
Monopole 150 or	2,500 feet	2,500	1,000 feet	500 feet
less		feet		

Exempt from this requirement are Antennas and Towers that are recognized camouflaged structures and determining separation distances, Amateur Radio Station Operators/Receive Only Antennas. will not be included in the calculations.



B. Wireless Communications Towers designed to accommodate four (4) or more service

 providers Shall be granted a reduction in the separation distances between Communications Towers as shown below:

Tower Table 3 - Co-Location Reduction

Number of Service	Reduction in			
Providers on Tower	Separation			
	Requirements			
Four (4)	Fifteen (15) percent			
Five (5)	Twenty-five (25)			
	percent			
Six (6)	Thirty-five (35)			
	percent			

Prior to issuance of building permit, the owner/operator Shall submit executed colocation agreements for each additional co-location in a form acceptable to the County Manager or designee that Shall provide that each of the additional Users will be utilizing the Tower upon its completion.

3.13.12 Towers within the Emergency Telecommunication Corridor

All proposed towers or antennas being located within Lake County shall be reviewed by the Public Safety Department to determine the impact, if any, on the transmission of emergency communications.

If the Public Safety Department determines that the proposed tower would create interference within emergency communication corridors; the applicant shall be required to mitigate the interference prior to the issuance of a certificate of completion.

3.13.1309A Communication Antenna Co-location.

- A. Use of Existing Conforming Structures. Wireless Communication Antenna placement is Permitted with Site Plan Review, and approval by the County Manager or designee on any existing conforming non-residential Structure other than Communication Towers if the Communication Antenna does not cause the combined height of the Structure and Antenna to exceed one hundred fifty (150) percent of the height of the Structure. NoA CUP or rezoning to CFD is not required for this type of placement.
- B. Use of Existing Towers. Lake County encourages the use of existing Towers for the location of additional antennas. Additional Antennas, including emergency communication(s) antennas, may be placed on existing conforming towers, excluding Amateur Radio Towers and Receive Only Antennas, without Site Plan Review provided there is not an increase in height. Applications for co-location Shall include written permission from the Tower owner accompanied by sealed and verified testimony by an engineer licensed in the State of Florida that the Tower can hold the additional equipment and maintain compliance with the adopted Structural codes in effect at the time of said improvement or addition. Additional Antennas placed on camouflaged towers shall be placed so as to match with the existing camouflaged structure.

3.13.1410 Fencing. A chain link fence or wall not less than six (6) feet from finished grade Shall be provided around each communications Tower and support facilities. In commercial and industrial Zoning Districts, barbed wire or other appropriate anti-climbing device Shall be used along the top of the fence or wall. The area to be fenced Shall surround and enclose as a single entity or individually, the tower, all supporting Structures including guyed grounding points, and equipment facilities. Access to the Communications Tower Shall be through a locked gate.

3.13.1511 Landscaping.

- A. The visual impact of a communications tower Shall be mitigated for nearby viewers through landscaping at the base of the Communications Tower and ancillary structures. Landscaping Shall be installed on the outside of fences or walls except inon agricultural zoned lands as follows:—areas.
 - <u>B1. A Type A Buffer (Section 9.01.06.B, Table 2) shall be used; the Eexisting vegetation Shall be preserved to the maximum extent practicable and may be used as a substitute of or in supplement toward meeting the Type A Buffer requirements. following landscaping requirements:</u>
 - 1. A row of shade trees a minimum of ten (10) feet tall, two and one-half (2 1/2) inches in diameter measured at breast height and a maximum of twenty (20) feet apart Shall be planted around the perimeter of the fence.
 - 2. A continuous hedge of at least twenty-four (24) inches high at planting of sufficient health and quality capable of growing at least thirty-six (36) inches in height within eighteen (18) months Shall be planted in front of the tree line referenced above.
 - 3. All landscaping Shall be of the evergreen variety.
 - 4. All landscaping Shall be drought tolerant and suited to the site Soil conditions (xeriscape) or irrigated and properly maintained to ensure good health and viability.
- <u>B</u>C. At the public hearing at which the CFD zoning or Conditional Use Permit is approved, the <u>The</u> Board of County Commissioners may waive all or part of the landscaping requirements if the Board it finds it is not necessary to mitigate the visual impact for nearby viewers.
- **3.13.1612 Modification or Rebuilding.** Existing conforming Communications Towers, excluding Amateur Radio Towers and Receive Only Antennas, may be modified or rebuilt to accommodate co-location of additional communications Antennas without a public hearing provided there is not an increase in height. The modified or rebuilt tower must be the same type as the previously existing tower and there must be an executed written agreement showing there will be at least one (1) additional user utilizing the Tower upon rebuild or modification.

3.13.1713 Illumination. Communications Towers Shall not be required to be artificially lighted except to assure human safety or as required by the Federal Aviation Administration. If the FAA requires lighting and there are residential uses found within a distance that is three hundred (300) percent of the height of the Communications Tower, dual mode lighting Shall be requested from the FAA.

3.13.1814 Finished Color. Communications Towers not requiring FAA painting/marking Shall have a galvanized finish or be painted in a neutral color.

3.13.<u>19</u>15 Signage.

- 1. Signage unless otherwise required by law on perimeter fences Shall be limited to:
 - a. Federal Communications Commission (FCC) registration.
 - b. Trespassing, danger/warning, or emergency directions.
 - c. One sign not to exceed four (4) square feet in size providing Tower owner and leasing information.
- 2. Each User Shall be permitted two (2) square feet of signage on equipment facilities providing ownership information and/or emergency directions.
- 3. No signage Shall be Permitted on Towers or Antennas.
- 3.13.2016 Removal of Abandoned Antennas and Towers. Any Antenna or Tower that is not operated (all user cease using the tower) for a continuous period of twelve (12) months Shall be considered abandoned, and the owner of such antenna or tower Shall remove the same within ninety (90) days of receipt of notice from Lake County notifying the owner of such abandonment. Failure to remove an abandoned Antenna or Tower within said ninety (90) days Shall be grounds to remove the Tower or Antenna at the owner's expense. If there are two (2) or more users of a single Tower, then this provision Shall not become effective Until all Users cease using the Tower.
- 3.13.2117 Conditional Use and Community Facility District (CFD) Criteria. In determining a Conditional Use or CFD request for a Communication Tower in addition to those criteria set forth in Lake County Code, Section 14.05.06, the Board of County Commissioners Shall take into consideration whether or not the proposed Tower will have a substantial adverse aesthetic impact on neighboring Residential lands and compatibility of a camouflaged Tower in a given area. The Board of County Commissioners' determination Shall be based on relevant and competent evidence, documentation, and testimony received at the public hearing from the staff, the applicant and any party in support or opposition, or their respective representatives. The Board of County Commissioners Shall utilize the following criteria:
- A. The following non-comprehensive list of items shall be considered when reviewing for Aesthetic impacts: This means view of a Tower that is not camouflaged. Aesthetic impact Shall take into consideration, but not be limited to, the amount of the Tower that can be viewed from surrounding Residential Zones in conjunction with its proximity (distance) to the residential zone, mitigation—landscaping, existing character of surrounding area, or and any other visual options proposed by the applicant. The

tower may be placed, designed or camouflaged to assist with mitigating the overall aesthetic impact.

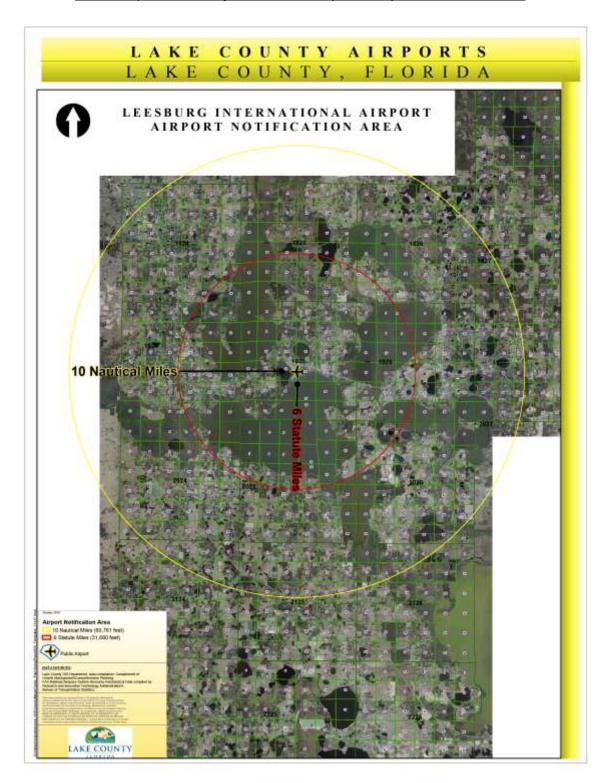
- B. Compatibility: This means tThe degree to which a Tower is designed and located in order to be compatible with the nature and character of other-Land Uses and/or with the environment within which the Tower is proposeds to be located. The tower may be placed, designed, or camouflaged to assist with compatibilitymitigating the overall aesthetic impact of a tower. A camouflaged tower agent Shall be designed to be compatible with the surrounding Land Uses and the environment.
- C. Minimum Standards: In addition to the above, tIhe minimum performance standards with respect to separation between Towers, separation between residential uses and Towers, etc., as referenced in Section 3.13.00 herein, Shall be met. These standards, however, are minimum standards; tIhe Board of County Commissioners is empowered to may impose more restrictive Conditions to a Conditional Use Permit or CFD request in order to recommend approval so as to achieve the desired protection with respect to aesthetic impact and harmony and compatibility with the surrounding community. The determination by the Board of County Commissioners to impose more restrictive conditions Shall be based on substantial competent evidence—that supports the modification and consistency of the modification with the purpose and intent of this section.

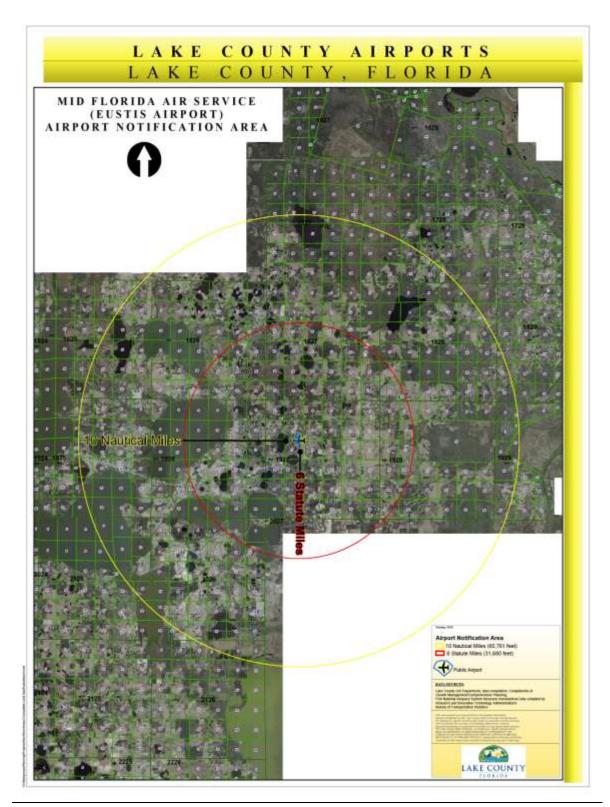
3.13.22 Variance Requests. In addition to the variance criteria set forth in these Regulations, the following shall apply:

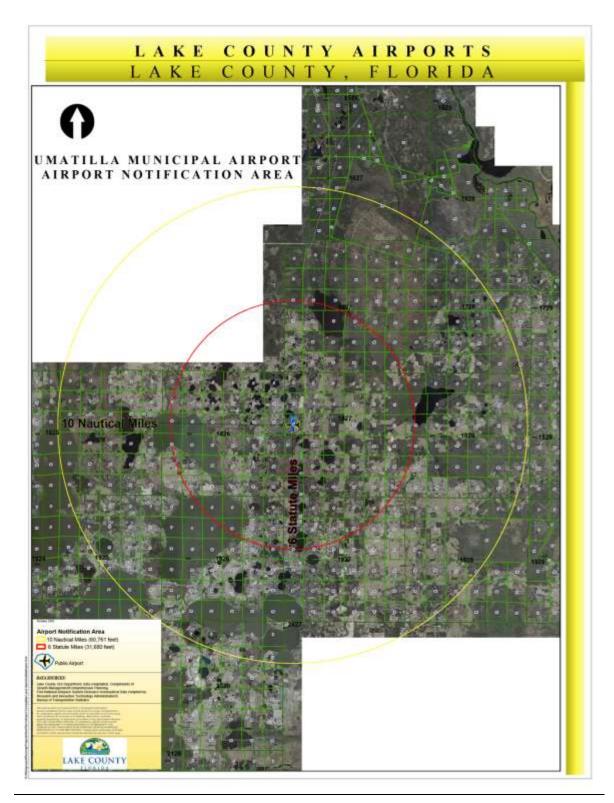
Any variance request to the height of a tower exceeding 200 feet above ground level must be provided to the Florida Department of Transportation (FDOT) for a 45-day comment period in accordance with Chapter 333, FS.

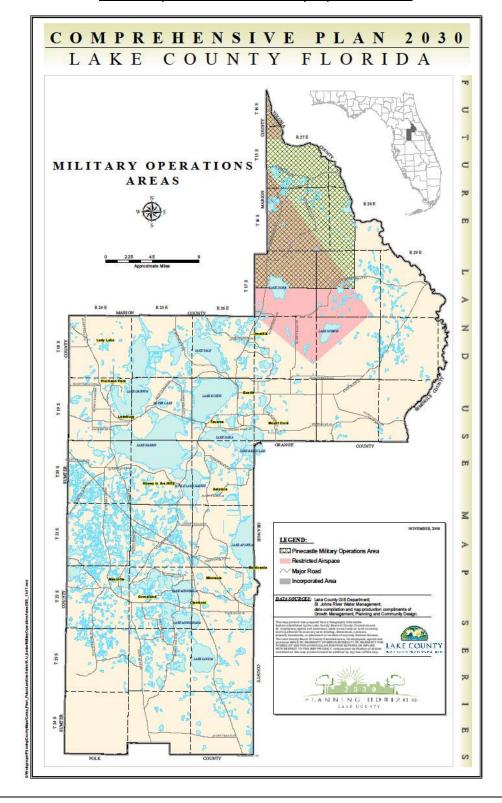
Tower Maps

<u>Tower Map 1 – Leesburg International Airport – Airport Notification Area</u>









Section 3. Severability. If any section, sentence, clause or phrase or the Ordinance is held to be invalid or unconstitutional by any court of competent jurisdiction, then said holding shall in no way effect the validity of the remaining portion of this Ordinance.

Section 4. Inclusion in the Code. It is the intent of the Board of County Commissioners that the provisions of this Ordinance shall become and be made a part of the Lake County Code and that the sections of this Ordinance may be renumbered or relettered and the word "ordinance" may be changed to "section", "article" or such other appropriate word or phrase in order to accomplish such intentions.

Section 5. Filing with the Department of State. The clerk shall be and is hereby directed forthwith to send a certified copy of this Ordinance to the Secretary of State for the State of Florida.

Section 6. Effective. This Ordinance shall become effective upon filing with the Secretary of State.

Enacted this day of Filed with the Secretary of State	· ·
ATTEST:	BOARD OF COUNTY COMMISSIONERS OF LAKE COUNTY, FLORIDA
Neil Kelly, Clerk of the Board of County Commissioners of Lake County, Florida	Leslie Campione, Chairman
Approved as to form and legality:	
Sanford A. Minkoff County Attorney	