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1. Overview of Airport Zoning & Airspace Regulations

1.1 Purpose

The purpose of this *Airport Zoning Manual* is to provide a guidance tool for communities within Jackson County who are responsible for implementing and enforcing the Jackson County Airport - Reynolds Field Zoning Ordinance.

1.2 Need

Airports represent a unique use of land with special characteristics and problems for community planning and zoning. Within the vicinity of airports, attention should be directed to the heights of structures, trees, natural features and other objects which may prove hazardous to air transport. Such obstructions can seriously endanger the safety and welfare of the aircraft, as well as the passengers aboard the aircraft and the people living and working in the area surrounding the airport.

The Federal Aviation Administration (FAA) and the Michigan Aeronautics Commission (MAC) recognize that navigable airspace is a limited national resource. The aviation community is the principal user of the resource; however, there are others who have legitimate requirements for the use of airspace. At the present time, as well as in the future, a greater demand is being placed on this limited natural resource because of the new advances in technology. For example, with the advent of cellular communication, private microwave telephone systems and cable TV stations, in addition to the new expanded advertisement markets for AM, FM and UHF TV stations, airspace has become a precious commodity. These communication sources have major impacts on aeronautical operations, thus, there is a need to plan for this demand for airspace.

1.3 Background & Authority

As with any form of local regulation, there is State and Federal Legislation which provides the regulatory authority to establish these regulations. The FAA and the Michigan Aeronautics Commission provide regulatory authority to local airport owners to preserve the airspace around an airport. The Airport and Airway Development Act of 1970, as amended, established general provisions for the preservation of clear airspace within the approaches and general proximity to an airport. Per Section 18 (a) of this Act, the owner of an airport, referred to as the Sponsor, insures that:

- "1) The aerial approaches to the airport will be adequately cleared and protected by removing, lowering, relocating, marking or lighting, or otherwise mitigating existing hazards and by preventing the establishment or creation of future airport hazards;
- Appropriate action, including the adoption of zoning laws, has been or will be taken, to the extent reasonable, to restrict the use of land adjacent to, or in the immediate vicinity of, the airport to activities and purposes compatible with normal airport operations including landing and takeoff at the airport."

Act 23 of the *Public Acts of 1950 (Airport Zoning Act)* provided for the adoption of airport approach plans and regulations limiting the height of structures and natural growth that would pose a hazard or reduce the operational area of an airport. Act 157 of the *Public Acts of 1976* amended *Act 23 of P.A. 150* and added a

provision for specifying land use in addition to height of structures. The amendment also provides for cooperative interstate action.

To provide the airports and the airspace of the State of Michigan with a comprehensive policy for airspace protection, the Michigan Aeronautics Commission adopted *An Airport Zoning Policy*, effective April 12, 1978, that would promote zoning by:

- 1) Providing financial support for surveys, drawings and document preparation;
- 2) Coordinating local, regional and state planning agencies in informational and educational programs;
- 3) Increasing airport project priority by adding permits to the Rating System for sponsors with an effective zoning ordinance and recommended land use plan.

This policy, still in effect today, governs the airspace of the State of Michigan for the safety of the residents of this State and its visitors. These legislative actions provide the framework for establishing local airport zoning to preserve the airspace for the flight of aircraft.

2. How To Use the Zoning Manual & Plans

The airport zoning ordinance is the first step in providing adequate protection for airports and the surrounding airspace. The following details the use of the airport zoning ordinance, manual and plans.

2.1 What to Consider

Proposed structures that may come under the consideration of these plans include tall buildings, towers, smokestacks, overhead power lines, radio and television towers, aerials, antennas, billboards and other tall structures within a 10-mile radius of the Jackson County Airport - Reynolds Field.

2.2 When to Consider

The Zoning Plans should be referenced during the early stages of planning and construction design. Utilizing these zoning plans before construction may avoid inconveniences later in the development. An incentive for consulting these plans is that construction of obstructing objects may be a violation of the *Jackson County Airport - Reynolds Field Zoning Ordinance* or the *Michigan Tall Structures Act* and would be subject to penalty. All proposed structures within the boundaries of the airport zoning plan should be reviewed based upon their location relative to the airport. Specific height limitations within each zone require various levels of review by the zoning administrator. The following discussion of the zones illustrate specific requirements regarding permits.

2.3 Zones

There are four (4) major zones within a ten (10) mile radius of the airport, which have various height restrictions based upon their proximity to the airport. **Figure 1** exhibits the limits of the zones. The height restrictions are based upon the allowable height of objects relative to the airport elevation. There are two measurements of elevation utilized as a part of this ordinance, the overall measurement of elevations are done in Mean Sea Level (MSL) elevations and the height of structures or objects is typically listed in the elevation Above Ground Level (AGL). To calculate the top elevation of a structure, the existing ground elevation (MSL) is added to the height of a structure (AGL) to provide a top elevation measured above Mean Sea Level.

These four (4) zones include:

Zone A is comprised of the runway approach surfaces and the transitional surfaces. These are the most restrictive zones and are located nearest the runway. This zone has a series of graduated imaginary surfaces extending up and away from the runways. The surfaces within this zone are predicated upon the FAR Part 77 surfaces, as defined by the FAA. This zone has a height limitation which ranges from 1001 feet MSL, the airport elevation, to 1150 feet MSL which is the elevation at which Zone B begins. These surfaces are critical to the safety of the airport and surrounding environs. Figure 2 exhibits the limits of Zone A. All structures which are proposed for construction within this zone must be reviewed by the Airport Zoning Administrator, regardless the height of the structure or the allowable elevation.

- Zone B encompasses all of the property within a 3-mile radius of the airport which is outside of Zone A. This area is also called the inner horizontal surface. The height limitations of this zone are predicated upon an overall height of 149 feet AGL above the airport elevation or 1150 feet MSL. This area is also critical to the operations of the airport, since this is the area where aircraft are typically maneuvering for take-off or landing as a part of the traffic pattern. Consequently, controlling the development of tall structures within this area is imperative. Any structure which is higher than 35 feet AGL in height proposed for constructed within Zone B will be subject to review by the zoning administrator.
- Zone C is a graduated imaginary surface which begins 3-miles from the airport, at the outer edge of Zone B, and extends to a radius of 6.32-miles from the airport. This surface has height limitations which range from 1150 feet MSL at 3 miles from the airport to 1501 feet MSL at 6.32 miles from the airport (149 feet AGL 500 feet AGL above the airport elevation). Any structure constructed within Zone C, the conical surface, which is higher than 100 feet AGL in height will be subject to review by the zoning administrator.
- Zone D includes the area from the 6.32-mile radius to a 10-mile radius of the airport. This zone is a flat plane which has a height limitation of 1501 feet MSL or 500 feet AGL above the airport elevation. The zoning administrator has review authority over any structures greater than 200 feet AGL in height in this zone.

2.4 Reviewing Plans

Evaluation of proposed structures within Jackson County for compliance with the Jackson County Airport-Reynolds Field Zoning Ordinance should be completed in accordance with the flow chart shown in **Figure 3.** This process has been developed to expedite the review of proposed structures and maintain clear airspace for the Jackson County Airport - Reynolds Field. Airport Zoning Tables have been developed for the City of Jackson and for each township impacted by the Zoning Plans for Jackson County Airport - Reynolds Field. These tables are found in Appendix A.

The Airport Zoning Ordinance should be reviewed as a part of each local agencies building permit process. Each of these local agencies, as an element of the permitting process, are responsible for contacting the Airport Zoning Administrator for review of the proposed development. Once an Agency has determined that a zoning permit may be necessary, it will forward the request to the Jackson County Airport - Reynolds Field Zoning Administrator. The Airport Zoning Administrator will review the proposed structure according to the Airport Zoning Plans to assess the impact of the structure, if any. The Airport Zoning Administrator will determine if an FAA Form 7460-1 should be submitted based upon the location of the structure with regards to the proximity to Zones A & B. The Zoning Administrator may elect to delay determination of the permit until a response to the FAA Form 7460-1 is received from the FAA. If the structure is determined to be a non-hazard, a permit may be issued which will provide the Agency with the approval necessary to continue with the permit process. If the structure is determined to be a hazard or a penetration to the zoning surfaces, a permit will be denied. **Figure 4** exhibits the Zoning Administrator review process. The applicant will have the opportunity to appeal the determination with the Airport Zoning Board of Appeals if they feel the determination was made in error or if they have extenuating circumstances which should warrant the approval of their request.

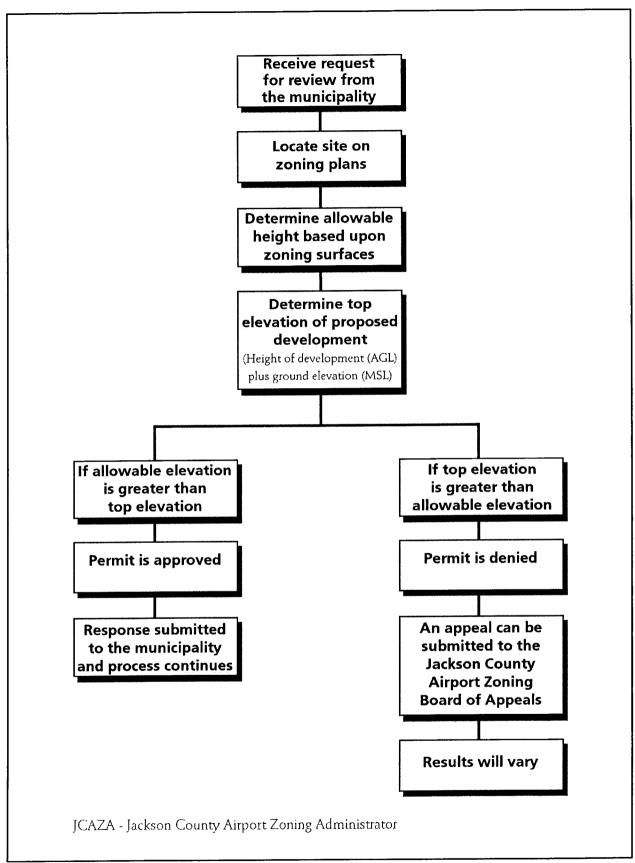


Figure 3 - General Review Process

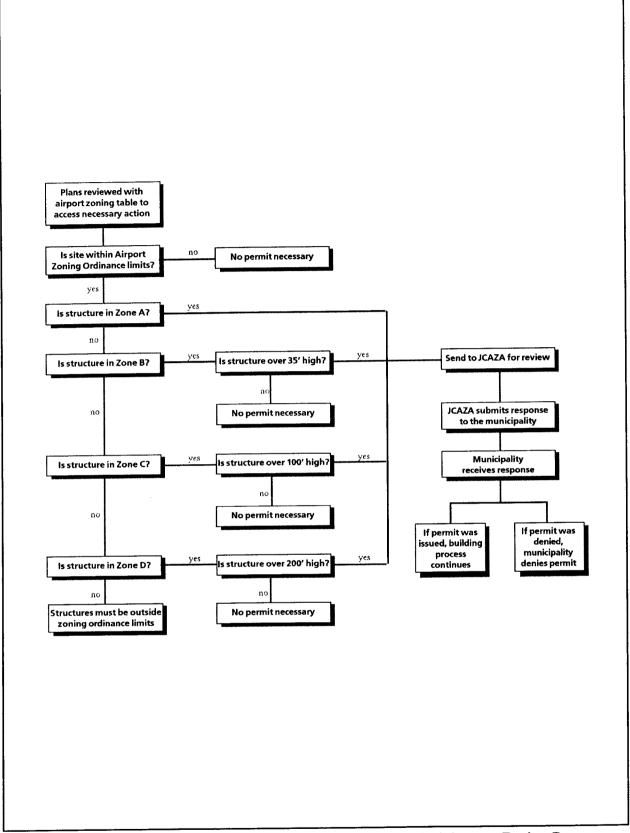


Figure 4 - Jackson County Airport - Reynolds Field Zoning Administrator Review Process

Rules of Review

There are several specific rules used to determine if a proposed structure or alteration requires a permit. These include:

- 1) If the structure is within **Zone A**, the Zoning Administrator must review the application regardless of the height of the development.
- 2) If the structure is within **Zone B** and is above **35 feet AGL** in height, the Zoning Administrator must review the application.
- 3) If the structure is within **Zone** C and is above **100 feet AGL** in height, the Zoning Administrator must review the application.
- 4) If the structure is within **Zone D** and is above **200 feet AGL** in height, the Zoning Administrator must review the application.

Examples

The following examples are provided to demonstrate the preceding Rules of Review.

Example 1 Zone A

An addition to the building on the southeastern corner of the intersection of Michigan Avenue and M-60 in Section 31 of Blackman Township is proposed. The addition will be 40 feet AGL in height. The ground elevation at that location is 960 feet MSL.

Action:

- a) Blackman Township will review the Airport Zoning Table to determine that Section 31 is within Zone A. This application will require review by the Zoning Administrator due to its location within this zone. The township representative will advise the applicant of the Jackson County Airport Reynolds Field Zoning Permit Process and provide the applicant with a copy of the Airport Zoning Application. Once the application is completed, the Township will forward the application to the Zoning Administrator for review.
- b) The Zoning Administrator will review the proposed site using the Airport Zoning Plans. The Administrator will note that the site is within Zone A and has an allowable elevation of 1030 feet MSL. Based upon the information supplied by the applicant, it is determined that the top elevation of the development would be 1000 feet MSL (40 feet AGL height plus 960 foot MSL ground elevation). This does not exceed the allowable heights of the Jackson County Airport Reynolds Field Zoning Ordinance, consequently, the Zoning Administrator would grant a permit to erect this structure.

Example 2 Zone B

A communications tower is proposed to be constructed at the southwest corner of McCain Road and M-60 in Section 7 of Summit Township. The tower is proposed to be 180 feet AGL in height with a local ground elevation of 982 feet MSL.

Action:

- a) Summit Township will review the Airport Zoning Table to determine that Section 7 has areas within both Zone B and Zone C. As the proposed tower is over the review height of 35 feet AGL, the application will require review by the Zoning Administrator. The township representative will advise the applicant of the Jackson County Airport Reynolds Field Zoning Permit Process and provide the applicant with a copy of the Airport Zoning Application. Once the application is completed, the Township will forward the application to the Zoning Administrator for review.
- The Zoning Administrator will review the proposed site using the Zoning Plans. The Administrator will note that the site is within Zone B and has an allowable elevation of 1150 feet MSL. Based upon the information supplied by the applicant, it is determined that the top elevation of the development would be 1162 feet MSL (180 feet AGL height plus 982 foot MSL ground elevation). This exceeds the height allowed by the Airport Zoning Ordinance, consequently, the Zoning Administrator would deny a permit to erect this structure.

Example 3 Zone C

A company submits an application to construct a new manufacturing facility in Section 32 of Rives Township. The building will be 35 feet AGL in height with ventilation stacks which are 50 feet AGL. The ground elevation of the site it 1000 feet MSL.

Action:

a) Rives Township will review the Airport Zoning Table to determine that Section 32 falls within Zone C. As the proposed building and ventilation stacks are below the review height of 100 feet AGL for Zone C, the application will not require review by the Zoning Administrator.

Example 4 Zone D

A 400 foot tall communications tower is proposed to be constructed in Section 21 of Leoni Township along I-94, north of Gilletts Lake. The elevation of the site is 982 feet MSL.

Action:

- a) Leoni Township will review the Airport Zoning Table to determine that Section 21 falls within Zone D. As the proposed tower is above the review height of 200 feet AGL for Zone D, the application will require review by the Zoning Administrator. Leoni Township will provide the applicant with a copy of the Airport Zoning application. Once the application is completed, the Township will forward the application to the Zoning Administrator for review.
- b) The Zoning Administrator will review the proposed site using the Zoning Plans. The Administrator will note that the site is within the limits of Zone D and has an allowable elevation of 1500 feet MSL. Based upon the information supplied by the applicant, it is determined that the top elevation of the development would be 1382 feet MSL (400 feet AGL height plus 982 feet MSL ground elevation). This

proposed development would not exceed the height allowed by the Airport Zoning Ordinance, consequently, the Zoning Administrator would issue a permit to erect this structure.

2.5 Additional Permits

If the proposed structure or alteration exceeds the height restrictions of the Airport Zoning Ordinance, is within the boundaries of the airport or is within close proximity to the airport (see the rules below) it must be reviewed by the Federal Aviation Administration (FAA) and the Michigan Department of Transportation, Bureau of Aeronautics (MDOT BOA). In order to do this, a *Notice of Proposed Construction or Alteration* Form 7460-1 must be submitted. A sample form is included in Appendix A.

The rules which apply to the submission of a *Notice of Proposed Construction or Alternation* Form 7460-1 are shown in Figure 5 which is taken directly from the form itself. The rules which apply to determine if a Notice of Proposed Construction or Alternation Form needs to be filed with the FAA are outlined in this Figure.

It should be noted that an FAA determination is a conclusion based on a structures' projected impact on the safe and efficient use of the navigable airspace by aircraft. It should not be considered as an approval or disapproval of the project since issues other than airspace use are not considered. Filing of notice with the FAA does not relieve a construction sponsor of any compliance responsibilities relating to any law, airport zoning ordinance, or regulation of any other Federal, State, or Local governmental body.

NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION

§77.13 Construction or alteration requiring notice

(a) Except as provided in §77.15, each sponsor who proposes any of the following construction or alteration shall notify the Administrator in the form and manner prescribed in \$77.17:

(1) Any construction or alteration of more than 200 feet in height above the ground

(2) Any construction or alteration of greater height than an imaginary surface extending outward and upward at one of the following slopes:

(i) 100 to 1 for a horizontal distance of 20,000 feet from the nearest point of (i) 100 to 1 for a horizontal distance of 20,000 feet from the nearest point of the nearest nurway of each airport specified in subparagraph (5) of this paragraph with at least one runway more than 3,200 feet in actual length, excluding heliports.
(ii) 50 to 1 for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each airport specified in subparagraph (5) of this paragraph with its longest runway no more than 3,200 feet in actual length, excluding heliports.
(iii) 25 to 1 for a horizontal distance of 5,000 feet from the nearest point of the nearest landing and takeoff area of each heliport specified in subparagraph (5) of this paragraph

(3) Any highway, railroad, or other traverse way for mobile objects, of a height which, if adjusted upward 17 feet for an Interstate Highway that is part of the National System of Military and Interstate Highways where overcrossings are designed for a minimum of 17 feet vertical distance, 15 feet for any other public roadway in feet or the height of the highest mobile object that would normally traverse the road, whichever is greater, for a private road, 23 feet for a railroad, and for a waterway or any other traverse way not previously mentioned, an amount equal to the height of the highest mobile object that would normally traverse it, would exceed a standard of subparagraph (1) or (2) of this paragraph.

(4) When requested by the FAA, any construction or alteration that would be in an instrument approach area (defined in the FAA standards governing instrument approach procedures) and available information indicates it might exceed a standard of Subpart C of this part.

(5) Any construction or alteration on any of the following airports (including heliports): (i) An airport that is available for public use and is listed in the Airport Directory of the current Airman's Information Manual or in either the Alaska or Pacific Airman's Guide and Chart Supplement.

(ii) An airport under construction, that is the subject of a notice or proposal on file with the Federal Aviation Administration, and except for military airports, it is clearly indicated that that airport will be available for public us (iii) An airport that is operated by an armed force of the United States.

(b) Each sponsor who proposes construction or alteration that is the subject of a notice under paragraph (a) of this section and is advised by an FAA regional office that a supplemental notice is required shall submit that notice on a prescribed form to be received by the FAA regional office at least 48 hours before the start of the construction or alteration.

(c) Each sponsor who undertakes construction or alteration that is the subject of a notice under paragraph (a) of this section shall, within 5 days after that construction or alteration reaches its greatest height, submit a supplemental notice on a prescribed form to the FAA regional office having jurisdiction over the area involved, if

(1) The construction or alteration is more than 200 feet above the surface level

(2) An FAA regional office advises him that submission of the form is required.

§77.15 Construction or alteration not requiring notice.

No person is required to notify the Administrator for any of the following construction or alteration.

(a) Any object that would be shielded by existing structures of a permanent and substantial character or by natural terrain or topographic features of equal or greater height, and would be located in the congested area of a city, town, or settlement where it is evident beyond all reasonable doubt that the structure so shielded will not adversely affect safety in air navigation.

(b) Any antenna structure of 20 feet or less in height except one that would increase the height of another antenna structure.

(c) Any air navigation facility, airport visual approach or landing aid, aircraft arresting device, or meteorological device, of a type approved by the Administrator, or an appropriate military service on military airports, the location and height of which is fixed by its functional purpose

(d) Any construction or alteration for which notice is required by any other FAA regulation.

\$77.17 Form and time of notice.

(a) Each person who is required to notify the Administrator under \$77.13 (a) shall send one executed form set of FAA Form 7460-1, Notice of Proposed Construction or Alteration, to the Manager, Air Traffic Division, FAA Regional Office having jurisdiction over the area within which the construction or alteration will be located. Copies of FAA Form 7460-1 may be obtained from the headquarters of the Federal Aviation Administration and the regional offices.

(b) The notice required under §77.13 (a) (1) through (4) must be submitted at least 30 days before the earlier of the following dates—
(1) The date the proposed construction or alteration is to begin

(2) The date an application for a construction permit is to be filed.

However, a notice relating to proposed construction or alteration that is subject to the licensing requirements of the Federal Communications Act may be sent to the FAA at the same time the application for construction is filled with the Federal Communications Commission, or at any time before that filing.

(c) A proposed structure or an alteration to an existing structure that exceeds 2,000 feet in height above the ground will be presumed to be a hazard to air navigation and to result in an inefficient utilization of airspace and the applicant has the burden of overcoming that presumption. Each notice submitted under the pertinent provisions of Part 77 proposing a structure in excess of 2,000 feet above ground, or an alteration that will make an existing structure exceed that height must contain a detailed showing directed to meeting this burden. Only in exceptional cases, where the FAA concludes that a clear and compelling showing has been made that it would not result in an inefficient utilization of the airspace and would not result in a hazard to air navigation, will a determination of no hazard be issued.

(d) In the case of an emergency involving essential public services, public health, or public safety, that requires immediate construction or alteration, the 30 day requireon polic salery, in a require servine constructor or alteration, the 30 day requirement in paragraph (b) of this section does not apply and the notice may be sent by telephone, telegraph, or other expeditious means, with an executed FAA Form 7460-1 submitted within five (5) days thereafter. Outside normal business hours, emergency notices by telephone or telegraph may be submitted to the nearest FAA Flight Service Station.

(e) Each person who is required to notify the Administrator by paragraph (b) or (c) of 877.13, or both, shall send an executed copy of FAA Form 7460-2, Notice of Actual Construction or Alteration, to the Manager, Air Traffic Division, FAA Regional Office having jurisdiction over the area involved.

ADDRESSES OF THE REGIONAL OFFICES

Alaskan Region

Alaskan Regional Office Air Traffic Division, AAL-530 222 West 7th Avenue Anchorage, AK 99513 Tel. 907-271-5893 Mailing Address: Federal Aviation Administration Alaskan Regional Office Air Traffic Division, AAL-530 222 West 7th Avenue, Box 14

Anchorage, AK 99513-7587

Central Region NE, IA, MO, KS

Central Regional Office Air Traffic Division, ACE-530 601 East 12th Street Kansas City, MO 64106 Tel. 816-426-3408

Eastern Region NY, PA, WV, VA, DC, MD, DE, NJ

Eastern Regional Office Air Traffic Division, AEA-530 JFK International Airport Fitzgerald Federal Building Jamaica, NY 11430 Tel. 718-553-1228 Fax: 718-553-1384

Great Lakes Region ND, WI, MI, SD, IL, OH, MN, IN

Great Lakes Regional Office Air Traffic Division, AGL-530 2300 East Devon Avenue Des Plaines, IL 60018 Tel. 708-294-7568

New England Region MA, NH, VT, RI, CT, ME

New England Regional Office Air Traffic Division, ANE-530 12 New England Executive Park Burlington, MA 01803-5299 Tel. 617-238-7538

Northwest Mountain Region WA, OR, MT, ID, WY, UT, CO

Northwest Mountain Regional Office Air Traffic Division, ANM-530 1601 Lind Avenue, SW Renton, WA 98055-4056 Tel. 206-227-2530 Fax: 206-227-1530

Southern Region KY, TN, NC, SC, GA, AL, MS, FL, VI, PR

Southern Regional Office Air Traffic Division, ASO-530 1710 Columbia Avenue College Park, GA 30337 Tel. 404-305-5585

Mail Address: Federal Aviation Administration Southern Regional Office Air Traffic Division, ASO-530 P.O. Box 20636 Atlanta GA 30320

Southwest Region NM, TX, OK, AR, LA

southwest Regional Office Air Traffic Division, ASW-530 2601 Meacham Blvd. Fort Worth, TX 76137-4298 Tel. 817-222-5531 Mail Address: Department of Transporation

Federal Aviation Administration Fort Worth, TX 76193-0530 Western Pacific Region

HI, CA, NV, AZ, GU Western-Pacific Regional Office Air Traffic Division, AWP-530 15000 Aviation Boulevard Hawthome, CA 90260 Tel. 310-297-1182 Mail Address AWP-530

P.O. Box 92007 Worldway Postal Cent Los Angeles, CA 90009

NSN: 0052-00-012-0007

FAA Form 7460-1 (5-94) Supersedes Previous Edition

Figure 5 - Notice of Proposed Construction or Alternation Form 7460-1

4. Associated Publications

The following publications contain obstruction criteria, marking and lighting standards which provide additional information regarding airport planning and zoning issues and objects that penetrate navigable airspace.

a) Federal Aviation Regulations (FAR) Part 77, Objects Affecting Navigable Airspace, sets the requirements for notice to the FAA of proposed construction or alteration and sets forth the standards for determining obstructions to navigable airspace. FAR Part 77 may be ordered from:

Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402 (Stock No. 050-007-00276-9)

b) Advisory Circulars: FAA Advisory Circulars are available free of charge from:

Department of Transportation Subsequent Publication Section, M-494.3 400 7th Street, SW Washington, D.C. 20590

- 1. <u>AC 70-7460-1</u>, Obstruction Marking and Lighting, describes the standards for marking and lighting of structures, such as buildings, chimneys, antenna towers, cooling towers, storage tanks, supporting structures of overhead wires, etc.
- 2. <u>AC 150-5345-1</u>, Approved Airport Lighting Equipment, lists the model numbers of equipment demonstrated to be in compliance.
- 3. AC 150/5345-43 Specification for Obstruction Lighting Equipment, contains the specifications for equipment used in obstruction lighting systems.
- c) <u>FAA Forms</u>: FAA Forms are available free of charge from all FAA regional offices and headquarters (See attached Form 7460-1).
 - 1. FAA Form 7460-1, Notice of Proposed Construction or Alteration, is used to notify the FAA of the proposed construction or alteration of an object that may interfere with the navigable airspace.
 - 2. FAA Form 7460-2, Notice of Actual Construction or Alteration, is used to notify the FAA of progress or abandonment, when and as requested on the form. This form is routinely furnished by the FAA regional office when it issues its determination whenever such information is required. This information is needed for charting

purposes, to change affected aeronautics procedures and to notify pilots of the structures' presence.

d) Rules and Regulations of the Michigan Aeronautics Commission (MAC), MAC publications are available free of charge from:

Michigan Department of Transportation Bureau of Aeronautics Capital City Airport 2700 E. Airport Service Drive Lansing, MI 48906 (517) 335-9977

This publication describes the licensing and regulation requirements as it relates to aeronautical matters within the State of Michigan.

5. Glossary of Aeronautical Terms

Airport Imaginary Surfaces are surfaces established by reference to the airport and consist of the approach surfaces and transitional surfaces (Zone A), the inner horizontal surface (Zone B), the conical surface (Zone C), and the outer horizontal surface (Zone D).

Airport Hazard means any structure or tree within the ten-mile radius of the airport.

Airport Zoning Plans are graphical drawings which depict height limitations and land use guidance within the airport hazard area.

Airspace is space within the air over the land and water of the state, above the minimum altitudes of flight prescribed by laws of the State and Federal aviation regulations.

AGL denotes the Above Ground Level of a structure or tree based upon an overall height of a structure or tree measured from ground level to the top point of the structure or tree.

Approach Surface (Zone A) is an inclined plane located directly above the runway protection zone (RPZ) and the approach area of the airport. The dimensions of the approach area are measured horizontally.

Conical Surface (Zone C) extends upward and outward from the periphery of the horizontal surface with a slope of 20:1 measured in a vertical plane passing through the airport reference point. Measuring radially outward, from the horizontal surface, the conical surface extends outward until a height of 500 feet above the established elevation of the airport is reached.

FAA denotes the Federal Aviation Administration.

Inner Horizontal Surface (Zone B) is a plane, circular in shape, with its height 149 feet above the established airport elevation, which is the highest point on the usable landing area and having a radius from the airport reference point of three miles.

Obstruction to Air Navigation is an existing object, including a mobile object or a future object, which would be an obstruction to air navigation, if it is of a greater height than any of the height limitations outlined in the Airport Zoning Plans or Surfaces defined under Part 77.

Primary Surface is a rectangular area at ground level, which includes the runway pavement up to the building restriction line, used for the purpose of take-offs, landing and taxiing.

Runway Protection Zone (RPZ) is a trapezoidal area at ground level, under the control of the airport authorities, for the purpose of protecting the safety of takeoffs and landings of aircraft.

Approach Slopes for FAA designated or Master Plan instrument runways are 50:1 (along the extended runway centerline approach surface); for runways 3200 feet in length or longer, the slope is 34:1; and for runways less than 3200 feet in length, the slope is 20:1.

Transitional Surface (Zone A) extends from the edge of all approach surfaces upward and outward to the intersection with the 149 foot horizontal surface at a slope of 7:1. (See Appendix D).

USGS denotes the United States Geological Survey which is responsible for mapping and re-mapping of the continental United States and its territories.

6. Review Requirement Tables

- Table 1 Blackman Township
- Table 2 Columbia Township
- **Table 3 Concord Township**
- Table 4 Hanover Township
- Table 5 Henrietta Township
- Table 6 Leoni Township
- Table 7 Liberty Township
- Table 8 Napoleon Township
- Table 9 Parma Township
- Table 10 Pulaski Township
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- **Table 12 Sandstone Township**
- **Table 13 Spring Arbor Township**
- **Table 14 Springport Township**
- **Table 15 Summit Township**
- Table 16 Tompkins Township
- Table 17 City of Jackson

	Table 1. Blackman Township Airport Zoning Table						
Section	Zone	Action	Section	Zone	Action		
1	C/D	Review if over 100' AGL	19	В	Review if over 35' AGL		
2	C/D	Review if over 100' AGL	20	В	Review if over 35' AGL		
3	C	Review if over 100' AGL	21	A/B	Review all structures		
4	C	Review if over 100' AGL	22	A/B	Review all structures		
5	C	Review if over 100' AGL	23	C	Review if over 100' AGL		
6	C	Review if over 100' AGL	24	C	Review if over 100' AGL		
7	Ċ	Review if over 100' AGL	25	C	Review if over 100' AGL		
· 8	C	Review if over 100' AGL	26	B/C	Review if over 35' AGL		
9	C	Review if over 100' AGL	27	A/B	Review all structures		
10	C	Review if over 100' AGL	28	A/B	Review all Structures		
11	C/D	Review if over 100' AGL	29	A/B	Review all structures		
12	C	Review if over 100' AGL	30	A/B	Review all structures		
13	C	Review if over 100' AGL	31	. A/B	Review all structures		
14	C	Review if over 100' AGL	32	A/B	Review all structures		
15	B/C	Review if over 35' AGL	33	A/B	Review all structures		
16	B/C	Review if over 35' AGL	34	В	Review if over 35' AGL		
17	B/C	Review if over 35' AGL	35	B/C	Review if over 35' AGL		
18	B/C	Review if over 35' AGL	36	c	Review if over 100' AGL		

Table 2. Columbia Township Airport Zoning Table

Section	Zone	Action	Section	Zone	Action
1	NA	No review necessary	19	NA	No review necessary
2	NA	No review necessary	20	NA	No review necessary
3	NA	No review necessary	21	NA	No review necessary
4	D	Review if over 200' AGL	22	NA	No review necessary
5	D	Review if over 200' AGL	23	NA	No review necessary
6	D	Review if over 200' AGL	24	NA	No review necessary
7	D	Review if over 200' AGL	25	NA	No review necessary
8	D	Review if over 200' AGL	26	NA	No review necessary
9	NA	No review necessary	27	NA	No review necessary
10	NA	No review necessary	28	NA	No review necessary
11	NA	No review necessary	29	NA	No review necessary
12	NA	No review necessary	30	NA	No review necessary
13	NA	No review necessary	31	NA	No review necessary
14	NA	No review necessary	32	NA	No review necessary
15	NA	No review necessary	33	NA	No review necessary
16	NA	No review necessary	34	NA	No review necessary
17	NA	No review necessary	35	NA	No review necessary
18	NA	No review necessary	36	NA	No review necessary

		Table 3. Concord Town	ship Airport	Zoning Tab	ole
Section	Zone	Action	Section	Zone	Action
1	D	Review if over 200' AGL	19	NA	No review necessary
2	D	Review if over 200' AGL	20	NA	No review necessary
3	D	Review if over 200' AGL	21	NA	No review necessary
4	NA ·	No review necessary	22	D	Review if over 200' AGL
5	NA	No review necessary	23	D	Review if over 200' AGL
6	NA	No review necessary	24	D	Review if over 200' AGL
7	NA	No review necessary	25	D	Review if over 200' AGL
8	NA	No review necessary	26	D	Review if over 200' AGL
9	NA	No review necessary	27	NA	No review necessary
10	D	Review if over 200' AGL	28	NA	No review necessary
11	D	Review if over 200' AGL	29	NA	No review necessary
12	D	Review if over 200' AGL	30	NA	No review necessary
13	D	Review if over 200' AGL	31	NA	No review necessary
14	D	Review if over 200' AGL	32	NA	No review necessary
15	D	Review if over 200' AGL	33	NA	No review necessary
16	NA	No review necessary	34	NA.	No review necessary
17	NA	No review necessary	35	NA	No review necessary
18	NA	No review necessary	36	D	Review if over 200' AGL

	Table 4. Hanover Township Airport Zoning Table						
Section	Zone	Action	Section	Zone	Action		
1	D	Review if over 200' AGL	19	NA	No review necessary		
2	D	Review if over 200' AGL	20	NA	No review necessary		
3	D	Review if over 200' AGL	21	NA	No review necessary		
4	D	Review if over 200' AGL	22	NA	No review necessary		
5	D	Review if over 200' AGL	23	NA	No review necessary		
6	D	Review if over 200' AGL	24	NA	No review necessary		
7	NA	No review necessary	25	NA	No review necessary		
8	D	Review if over 200' AGL	26	NA	No review necessary		
9	D	Review if over 200' AGL	27	NA	No review necessary		
10	D	Review if over 200' AGL	28	NA	No review necessary		
11	D	Review if over 200' AGL	29	NA	No review necessary		
12	D	Review if over 200' AGL	30	NA	No review necessary		
13	D	Review if over 200' AGL	31	NA	No review necessary		
14	D	Review if over 200' AGL	32	NA	No review necessary		
15	. D	Review if over 200' AGL	33	NA	No review necessary		
16	D	Review if over 200' AGL	34	NA	No review necessary		
17	NA	No review necessary	35	NA	No review necessary		
18	NA	No review necessary	36	NA	No review necessary		

Table 5. Henrietta Township Airport Zoning Table						
Section	Zone	Action	Section	Zone	Action	
1	NA	No review necessary	19	D	Review if over 200' AGL	
2	NA	No review necessary	20	D	Review if over 200' AGL	
3	NA	No review necessary	21	D	Review if over 200' AGL	
4	NA	No review necessary	22	NA	No review necessary	
5	NA	No review necessary	23	NA	No review necessary	
6	NA	No review necessary	24	NA	No review necessary	
7	NA	No review necessary	25	NA	No review necessary	
8	NA	No review necessary	26	NA	No review necessary	
9	NA	No review necessary	27	NA	No review necessary	
10	NA	No review necessary	28	D	Review if over 200' AGL	
· 11	NA NA	No review necessary	29	D	Review if over 200' AGL	
12	NA	No review necessary	30	D	Review if over 200' AGL	
13	NA	No review necessary	31	D	Review if over 200' AGL	
14	NA	No review necessary	32	D	Review if over 200' AGL	
15	NA	No review necessary	33	D	Review if over 200' AGL	
16	NA	No review necessary	34	D	Review if over 200' AGL	
17	NA	No review necessary	35	NA	No review necessary	
18	D	Review if over 200' AGL	36	NA	No review necessary	

	Table 6. Leoni Township Airport Zoning Table						
Section	Zone	Action	Section	Zone	Action		
1	NA	No review necessary	19				
2	D	Review if over 200' AGL	20	C/D	Review if over 100' AGL		
3	D	Review if over 200' AGL	21	D	Review if over 200' AGL		
4	D	Review if over 200' AGL	22	D	Review if over 200' AGL		
5	D	Review if over 200' AGL	23	D	Review if over 200' AGL		
6	D	Review if over 200' AGL	24	D	Review if over 200' AGL		
7	C/D	Review if over 100' AGL	25	D	Review if over 200' AGL		
.8	D	Review if over 200' AGL	26	D	Review if over 200' AGL		
9	D	Review if over 200' AGL	27	D	Review if over 200' AGL		
10	D	Review if over 200' AGL	28	D	Review if over 200' AGL		
11	D	Review if over 200' AGL	29	C/D	Review if over 100' AGL		
12	NA	No review necessary	30	C	Review if over 100' AGL		
13	NA	No review necessary	31	. c	Review if over 100' AGL		
14	D	Review if over 200' AGL	32	C/D	Review if over 100' AGL		
15	D	Review if over 200' AGL	33	C	Review if over 100' AGL		
16	D	Review if over 200' AGL	34	С	Review if over 100' AGL		
17	D	Review if over 200' AGL	35	C	Review if over 100' AGL		
18	C/D	Review if over 100' AGL	36	C/D	Review if over 100' AGL		

	Table 7. Liberty Township Airport Zoning Table						
Section	Zone	Action	Section	Zone	Action		
1	D	Review if over 200' AGL	19	NA	No review necessary		
2	D	Review if over 200' AGL	20	NA	No review necessary		
3	D	Review if over 200' AGL	21	NA	No review necessary		
4	D	Review if over 200' AGL	22	NA	No review necessary		
5	D	Review if over 200' AGL	23	NA	No review necessary		
6	D	Review if over 200' AGL	24	NA	No review necessary		
7	D	Review if over 200' AGL	25	NA	No review necessary		
8	a	Review if over 200' AGL	26	NA	No review necessary		
9	D	Review if over 200' AGL	27	NA	No review necessary		
10	D	Review if over 200' AGL	28	NA	No review necessary		
11	D	Review if over 200' AGL	29	NA	No review necessary		
12	D	Review if over 200' AGL	30	NA	No review necessary		
13	D	Review if over 200' AGL	31	NA	No review necessary		
14	D	Review if over 200' AGL	32	NA	No review necessary		
15	D	Review if over 200' AGL	33	NA	No review necessary		
16	D	Review if over 200' AGL	34	NA	No review necessary		
17	D	Review if over 200' AGL	35	NA	No review necessary		
18	D	Review if over 200' AGL	36	NA	No review necessary		

	Table 8. Napoleon Township Airport Zoning Table							
Section	Zone	Action	Section	Zone	Action			
1	D	Review if over 200' AGL	19	D	Review if over 200' AGL			
2	D	Review if over 200' AGL	20	D	Review if over 200' AGL			
3	D	Review if over 200' AGL	21	D	Review if over 200' AGL			
4	D	Review if over 200' AGL	22	D	Review if over 200' AGL			
5	C/D	Review if over 100' AGL	23	D	Review if over 200' AGL			
6	C	Review if over 100' AGL	24	NA	No review necessary			
7	C/D	Review if over 100' AGL	25	NA	No review necessary			
8	C/D	Review if over 100' AGL	26	NA	No review necessary			
9	D	Review if over 200' AGL	27	D	Review if over 200' AGL			
10	D	Review if over 200' AGL	28	D	Review if over 200' AGL			
11	D	Review if over 200' AGL	29	D	Review if over 200' AGL			
12	NA	No review necessary	30	D	Review if over 200' AGL			
13	NA	No review necessary	31	D	Review if over 200' AGL			
14	D	Review if over 200' AGL	32	D	Review if over 200' AGL			
15	D	Review if over 200' AGL	33	D	Review if over 200' AGL			
16	D	Review if over 200' AGL	34	D	Review if over 200' AGL			
17	D	Review if over 200' AGL	35	NA	No review necessary			
18	C/D	Review if over 100' AGL	36	NA	no review necessary			

Table 9. Parma Township Airport Zoning Table						
Section	Zone	Action	Section	Zone	Action	
1	D	Review if over 200' AGL	19	NA	No review necessary	
2	D	Review if over 200' AGL	20	NA	No review necessary	
3	NA	No review necessary	21	NA	No review necessary	
4	NA	No review necessary	. 22	D	Review if over 200' AGL	
5	NA	No review necessary	23	D	Review if over 200' AGL	
6	NA	No review necessary	24	D	Review if over 200' AGL	
7	NA	No review necessary	25	D	Review if over 200' AGL	
8	NA	No review necessary	26	D	Review if over 200' AGL	
9	NA	No review necessary	27	D	Review if over 200' AGL	
10	D	Review if over 200' AGL	28	NA	No review necessary	
11	D	Review if over 200' AGL	29	NA	No review necessary	
12	D	Review if over 200' AGL	30	NA	No review necessary	
13	D	Review if over 200' AGL	31	NA	No review necessary	
14	D	Review if over 200' AGL	32	NA	No review necessary	
15	D	Review if over 200' AGL	33	NA	No review necessary	
16	NA	No review necessary	34	D	Review if over 200' AGL	
17	NA	No review necessary	35	D	Review if over 200' AGL	
18	NA	No review necessary	36	D	Review if over 200' AGL	

	Table 10. Pulaski Township Airport Zoning Table						
Section	Zone	Action	Section	Zone	Action		
1	D	Review if over 200' AGL	19	NA	No review necessary		
2	NA	No review necessary	20	NA	No review necessary		
3	NA	No review necessary	21	NA	No review necessary		
4	NA	No review necessary	22	NA	No review necessary		
5	NA	No review necessary	23	NA	No review necessary		
6	NA	No review necessary	24	NA	No review necessary		
7	NA	No review necessary	25	NA	No review necessary		
8	NA	No review necessary	26	NA	No review necessary		
9	NA	No review necessary	27	NA	No review necessary		
10	NA	No review necessary	28	NA	No review necessary		
-11	· NA	No review necessary	29	NA	No review necessary		
12	NA	No review necessary	30	NA	No review necessary		
13	NA	No review necessary	31	NA	No review necessary		
14	NA	No review necessary	32	NA	No review necessary		
15	NA	No review necessary	33	NA	No review necessary		
16	NA	No review necessary	34	NA	No review necessary		
17	NA	No review necessary	35	NA	No review necessary		
18	NA	No review necessary	36	NA	No review necessary		

	Table 11. Rives Township Airport Zoning Table					
Section	Zone	Action	Section	Zone	Action	
1	NA	No review necessary	19	D	Review if over 200' AGL	
2	NA	No review necessary	20	D	Review if over 200' AGL	
3	NA	No review necessary	21	D	Review if over 200' AGL	
4	NA	No review necessary	22	D	Review if over 200' AGL	
5	NA	No review necessary	23	D	Review if over 200' AGL	
6	NA	No review necessary	24	D	Review if over 200' AGL	
7	D.	Review if over 200' AGL	25	D	Review if over 200' AGL	
8	D	Review if over 200' AGL	26	D	Review if over 200' AGL	
9	D	Review if over 200' AGL	27	D	Review if over 200' AGL	
10	D	Review if over 200' AGL	28	C/D	Review if over 100' AGL	
11	D	Review if over 200' AGL	29	C/D	Review if over 100' AGL	
12	NA	No review necessary	30	C/D	Review if over 100' AGL	
13	D	Review if over 200' AGL	31	. C	Review if over 100' AGL	
14	D	Review if over 200' AGL	32	C	Review if over 100' AGL	
15	D	Review if over 200' AGL	33	C/D	Review if over 100' AGL	
16	D	Review if over 200' AGL	34	C/D	Review if over 100' AGL	
17	D	Review if over 200' AGL	35	C/D	Review if over 100' AGL	
18	D	Review if over 200' AGL	36	D	Review if over 200' AGL	

Table 12. Sandstone Township Airport Zoning Table					
Section	Zone	Action	Section	Zone	Action
1	С	Review if over 100' AGL	19	D	Review if over 200' AGL
2	C	Review if over 100' AGL	20	C/D	Review if over 100' AGL
3	C/D	Review if over 100' AGL	21	C	Review if over 100' AGL
4	C/D	Review if over 100' AGL	22	C	Review if over 100' AGL
5	D	Review if over 200' AGL	23	B/C	Review if over 35' AGL
6	D	Review if over 200' AGL	24	B/C	Review if over 35' AGL
7	D	Review if over 200' AGL	25	В	Review if over 35' AGL
8	C/D	Review if over 100' AGL	26	B/C	Review if over 35' AGL
9	C/D	Review if over 100' AGL	27	С	Review if over 100' AGL
10	C	Review if over 100' AGL	28	С	Review if over 100' AGL
11	C	Review if over 100' AGL	29	C/D	Review if over 100' AGL
12	C	Review if over 100' AGL	30	D	Review if over 200' AGL
13	B/C	Review if over 35' AGL	31	D	Review if over 200' AGL
14	C	Review if over 100' AGL	32	C	Review if over 100' AGL
15	С	Review if over 100' AGL	33	C	Review if over 100' AGL
16	C	Review if over 100' AGL	34	C	Review if over 100' AGL
17 .	C/D	Review if over 100' AGL	35	В/С	Review if over 35' AGL
18	D	Review if over 200' AGL	36	A/B	Review all structures

Table 13. Spring Arbor Township Airport Zoning Table

Section	Zone	Action	Section	Zone	Action
1	В	Review if over 35' AGL	19	D	Review if over 200' AGL
2	B/C	Review if over 35' AGL	20	D	Review if over 200' AGL
3	C	Review if over 100' AGL	21	C/D	Review if over 100' AGL
4	C .	Review if over 100' AGL	22	C/D	Review if over 100' AGL
5	C	Review if over 100' AGL	23	C	Review if over 100' AGL
6	D	Review if over 200' AGL	24	C	Review if over 100' AGL
7	D	Review if over 200' AGL	25	C	Review if over 100' AGL
8	C/D	Review if over 100' AGL	26	C/D	Review if over 100' AGL
9	C	Review if over 100' AGL	27	C/D	Review if over 100' AGL
10	C	Review if over 100' AGL	28	C/D	Review if over 100' AGL
11	C	Review if over 100' AGL	29	D	Review if over 200' AGL
12	B/C	Review if over 35' AGL	30	D	Review if over 200' AGL
13	C	Review if over 100' AGL	31	D	Review if over 200' AGL
14	C	Review if over 100' AGL	32	D	Review if over 200' AGL
15	C	Review if over 100' AGL	33	D	Review if over 200' AGL
16	C/D	Review if over 100' AGL	34	D	Review if over 200' AGL
17	C/D	Review if over 100' AGL	35	D	Review if over 200' AGL
18	D	Review if over 200' AGL	36	C/D	Review if over 100' AGL

Table 14. Springport Township Airport Zoning Table					
Section	Zone	Action	Section	Zone	Action
1	NA	No review necessary	19	NA	No review necessary
2	NA	No review necessary	20	NA	No review necessary
3	NA	No review necessary	21	NA	No review necessary
4	NA	No review necessary	. 22	NA	No review necessary
5	NA	No review necessary	23	NA	No review necessary
6	NA	No review necessary	24	NA	No review necessary
7	NA	No review necessary	25	D	Review if over 200' AGL
8	NA	No review necessary	26	NA	No review necessary
9	NA	No review necessary	27	NA	No review necessary
10	NA	No review necessary	28	NA	No review necessary
11	NA	No review necessary	29	NA	No review necessary
12	NA	No review necessary	30	NA	No review necessary
13	NA	No review necessary	31	NA	No review necessary
14	NA	No review necessary	32	NA	No review necessary
15	NA	No review necessary	33	NA	No review necessary
16	NA	No review necessary	34	NA	No review necessary
17	. NA	No review necessary	35	D	Review if over 200' AGL
18	NA	No review necessary	36	D	Review if over 200' AGL

	Table 15. Summit Township Airport Zoning Table					
Section	Zone	Action	Section	Zone	Action	
1	С	Review if over 100' AGL	19	С	Review if over 100' AGL	
2	C	Review if over 100' AGL	20	C	Review if over 100' AGL	
3	B/C	Review if over 35' AGL	21	C	Review if over 100' AGL	
4	В	Review if over 35' AGL	22	C	Review if over 100' AGL	
5	В	Review if over 35' AGL	23	C	Review if over 100' AGL	
6	A/B	Review all structures	24	C/D	Review if over 100' AGL	
7	В	Review if over 35' AGL	25	C/D	Review if over 100' AGL	
8	В	Review if over 35' AGL	26	C/D	Review if over 100' AGL	
9	B/C	Review if over 35' AGL	27	C/D	Review if over 100' AGL	
10	B/C	Review if over 35' AGL	28	C	Review if over 100' AGL	
11	C	Review if over 100' AGL	29	C	Review if over 100' AGL	
12	C	Review if over 100' AGL	30	C	Review if over 100' AGL	
13	C	Review if over 100' AGL	31	C/D	Review if over 100' AGL	
14	C	Review if over 100' AGL	32	C/D	Review if over 100' AGL	
15	C	Review if over 100' AGL	33	C/D	Review if over 100' AGL	
16	C	Review if over 100' AGL	34	C/D	Review if over 100' AGL	
17	B/C	Review if over 35' AGL	35	D	Review if over 200' AGL	
18	B/C	Review if over 35' AGL	36	D	Review if over 200' AGL	

	Table 16. Tompkins Township Airport Zoning Table					
Section	Zone	Action	Section	Zone	Action	
1	NA	No review necessary	19	D	Review if over 200' AGL	
2	NA	No review necessary	20	D	Review if over 200' AGL	
3	NA	No review necessary	21	D	Review if over 200' AGL	
4	NA	No review necessary	22	D	Review if over 200' AGL	
5	NA	No review necessary	23	D	Review if over 200' AGL	
6	NA	No review necessary	24	D	Review if over 200' AGL	
7	NA	No review necessary	25	D	Review if over 200' AGL	
8	NA	No review necessary	26	D	Review if over 200' AGL	
9	NA	No review necessary	27	D	Review if over 200' AGL	
10	D	Review if over 200' AGL	28	D	Review if over 200' AGL	
11	D	Review if over 200' AGL	29	D	Review if over 200' AGL	
12	D	Review if over 200' AGL	30	D	Review if over 200' AGL	
13	D	Review if over 200' AGL	31	D	Review if over 200' AGL	
14	D	Review if over 200' AGL	32	D	Review if over 200' AGL	
15	D	Review if over 200' AGL	33	D	Review if over 200' AGL	
16	D	Review if over 200' AGL	34	C/D	Review if over 100' AGL	
17	D	Review if over 200' AGL	35	C/D	Review if over 100' AGL	
18	NA	No review necessary	36	C/D	Review if over 100' AGL	

	Table 17. City of Jack	Table 17. City of Jackson Airport Zoning Table			
Section	Zone	Action			
City	B/C	Review if over 35' AGL			