

RECENT MASTER PLAN/ALP UPDATE WITH NARRATIVE EXPERIENCE

Coffman Associates is known for its extensive experience in airport planning, having completed more than 600 such studies. Airport master plans vary with the size, complexity, and role of each airport and may include a variety of supporting studies. The plans provide a comprehensive study of the airport that describes the short, intermediate-, and long-term plans for airport development. Coffman Associates utilizes Advisory Circular 150/5070-6B, Airport Master Plans, as a guide for the preparation of master plans for airports ranging in size and function from small general aviation to large commercial service facilities. The firm has always given specific attention to tailor each master plan scope for the individual airport under evaluation.

Lincoln Airport, Nebraska

Project: Airport Master Plan **Completed:** Ongoing

Key Personnel: Mike Dmyterko, Principal-in-Charge;

Eric Pfeifer, Project Manager

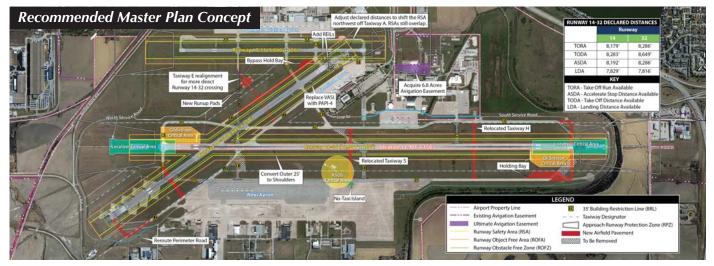
Reference: Chad Lay, Director - Planning and

Development, (402) 458-2403



Description: Lincoln Airport (LNK) is a 4,714-acre airport in Lincoln, Nebraska. Its three runways support a variety of users, including commercial passenger service; the Nebraska Army and Air National Guard (NEANG) Joint Force Headquarters; Duncan Aviation, which is one of the largest aircraft maintenance/repair/overhaul (MRO) operators in the world; general aviation activity; and a 1,000-acre industrial park with a Foreign Trade Zone (FTZ). Major issues addressed in the master plan included justification for and alternatives to reconstructing primary Runway 18-36, which has a length of 12,901 feet and a width of 200 feet. A detailed runway length analysis was conducted for commercial, general aviation, and military aircraft to determine AIP eligibility for the reconstruction, as well as appropriate lengths for the crosswind and parallel runways. Several non-standard taxiway geometry areas and FAA-identified hot spots were also addressed by rerouting taxiways and creating a new aircraft run-up pad at midfield, which reduces taxi distances and the need for aircraft to make multiple runway crossings. The plan also identified development areas for a new air cargo operation, as well as vertiport developments to support future advanced air mobility (AAM) air cargo and passenger activities. Additional recommendations included:

- Development plans for expanded fixed base operator (FBO) and hangar developments on the east and west sides of the airfield
- Reservation of land on the north side for new MRO and AAM facilities supported by a 36-acre solar farm to provide a power source for the emerging electric aircraft fleet
- Terminal expansion plans to add more gates, passenger holdroom and circulation areas, and food/ beverage and retail spaces
- Vehicle parking capacity expansion projects in the terminal area, including an expanded parking garage and a new surface cell phone lot and economy lot





Fort Smith Regional Airport, Arkansas

Project: Airport Master Plan **Completed:** July 2022

Key Personnel: Mike Dmyterko, Principal-in-Charge;

Eric Pfeifer, Project Manager

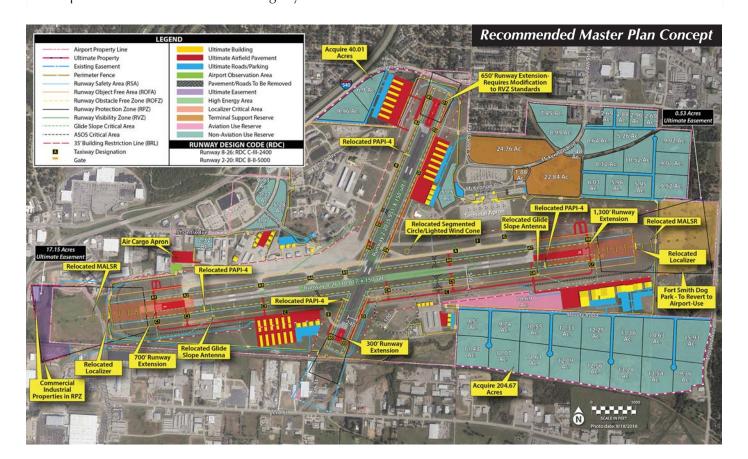
Reference: Michael Griffin, Airport Director

(479) 452-7000



Description: Fort Smith Regional Airport (FSM) is a primary commercial service airport serving the Fort Smith metropolitan area in Arkansas. FSM serves a total population of approximately 285,000 with two airlines (Delta and American) and six daily departures. FSM is also home to the 188th Wing of the Arkansas Air National Guard (AANG) and supports a wide range of general aviation activities. The master plan focused on enhancing existing and developing new revenue streams to make the airport as self-sustaining as possible. This involved leveraging the airport's undeveloped properties and prime location to attract new aviation and non-aviation related developments. Major issues addressed in the master plan included:

- Extending the primary and crosswind runways to enhance operational safety and utility for larger jet aircraft.
- Targeted expansions of the passenger terminal to provide additional space for passenger security screening, post-security holdroom and gate areas, food/beverage/retail options, and baggage claim space.
- Taxiway geometry improvements to mitigate potential runway incursions.
- Development of a full-length parallel taxiway on the south side of the primary runway to support future landside developments.
- Property acquisition to support a future non-aviation business/industrial park with potential railway access.
- Reserving property for a potential large-scale aircraft manufacturing operation or maintenance/repair/overhaul operator.
- Identification of several hangar and apron development sites to support new general aviation fixed-base operators (FBOs) or specialty aviation service operators (SASOs).
- Improvements to the airfield drainage system.





Dubuque Regional Airport, Iowa

Project: Airport Master Plan **Completed:** November 2021

Key Personnel: Mike Dmyterko, Principal-in-Charge;

Chandra Burks, Airport Planner

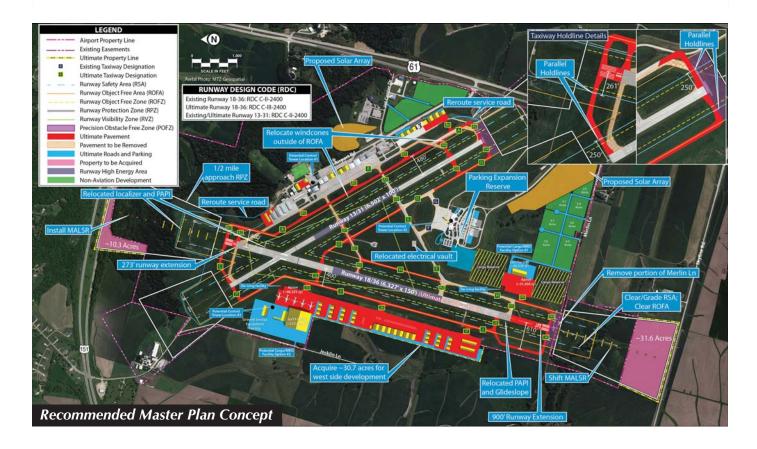
Reference: Todd Dalsing, Airport Director

(563) 589-4233



Description: Fort Smith Regional Airport (FSM) is a primary commercial service airport serving the Fort Smith metropDubuque Regional Airport (DBQ) is a nonhub primary commercial service airport serving the tri-state region of eastern lowa, southwestern Wisconsin, and northwestern Illinois. At the time of the master Plan, American Airlines' regional carrier, Envoy Air, provided daily service to Chicago O'Hare; however, service was terminated during the COVID-19 pandemic and has not been restored as of January 2023. Regular charter operations are also offered to three destinations. The airport is home to a flight training program offered by the University of Dubuque (UD), which offers both fixed wing and helicopter flight training, as well as a robust local general aviation flying community. The primary focus of the master plan was on correcting non-standard geometry on the airfield, as well as developing the existing general aviation area and potentially expanding to the west side of the field. Major considerations included:

- Extending the primary runway to enhance operational safety and utility for larger jet aircraft
- Resolving geometry issues, including the non-standard connection of Taxiway A to Runway 18, defined as Hot Spot 1 by the FAA, as well as two other FAA Hot Spots
- Improved instrument approach capabilities to Runway 18
- Development of the general aviation area to add additional box hangars and T-hangars to support growing demand
- Reserving a portion of the airfield for a potential cargo operator
- Long-term development of the west side of the airfield to provide a secondary GA area
- Reserving property for a potential cargo facility, as well as revenue-generating non-aeronautical uses





Kansas City Wheeler Downtown Airport, Missouri

Project: Airport Master Plan **Completed:** Ongoing

Key Personnel: Mike Dmyterko, Principal-in-Charge;

Patrick Taylor, Project Manager

Reference: Mike Waller, Airport Planning Manager

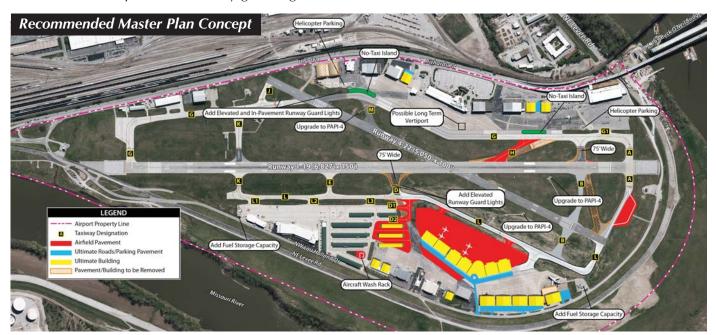
(816) 243-3038



Description: Kansas City Wheeler Downtown Airport (MKC) is a national general aviation reliever airport in Kansas City, Missouri. The Master Plan was undertaken to address changes in the aviation industry, growth at the airport, and the need to have a current ALP on file with the FAA to support future projects. MKC presents numerous challenges including its proximity to tall downtown buildings, which historically have prevented the implementation of an instrument approach to Runway 1, the most heavily used runway at the airport. As part of the Master Plan, a specialized team of consultants was assembled to not only analyze the feasibility of an instrument approach to Runway 1 but also to technically build the instrument approach plate. Ultimately, that effort did show that an approach was feasible, and the technical data was provided to FAA for reference as they build the actual instrument approach.

The Master Plan also took a deep dive into the development potential of a 26-acre parcel that recently became available for development after several preceding projects were completed. The preceding projects included decommission of an on-field VOR facility and construction of a parallel taxiway. The 26-acre parcel was the first developable land to come on-line in more than 20 years at the airport, so there was pent up demand. The Master Plan analysis determined the optimal development scenario, roadway access point, and best (and most profitable) type of hangars to develop. Near the end of the Master Plan process, the airport released an RFP for the parcel which generated numerous proposals.

A significant challenge in this Master Plan was the analysis associated with addressing three FAA identified hot spots and one FAA runway incursion mitigation (RIM) location. Once a set of alternatives were developed to address these issues, a comparative safety assessment (CSA) was undertaken. A CSA is an FAA prescribed process of a group of technical stakeholders to flesh out the pros and cons of each alternative, to introduce new ideas, and to come to consensus on the best alternative to carry forward to the airport layout plan (ALP). Typically, changes to the airfield geometry are a preferred solution, and that was the solution for two of the three hot spots. The preferred solution to the third hot spot, which is also the RIM location, was not a geometry solution because those considered would have made the location less safe. The preferred solution included additional pavement marking and the installation of both elevated and in-pavement runway guard light.





Floyd W. Jones Airport, Missouri

Project: Airport Master Plan **Completed:** December 2023

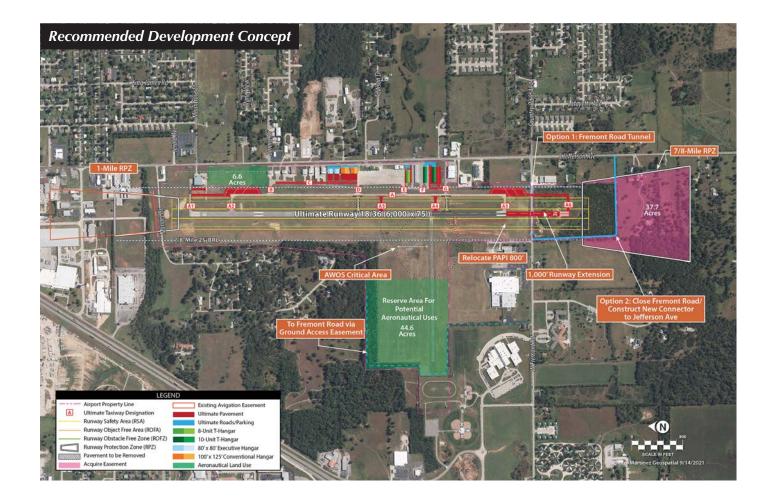
Key Personnel: Eric Pfeifer, Project Manager **Reference:** Jarrad Schomaker, IT/Airport Director

(417) 532-2156



Floyd W. Jones Airport (LBO) is a general aviation airport owned by the City of Lebanon in central Missouri. LBO serves the state of Missouri and the greater central region of the United States, supporting a range of general aviation activity and experiencing frequent flight training and charter operations. The master plan focused on enhancing existing facilities, modifying airfield geometry to meet FAA design standards, and developing airport property for both aviation and non-aviation uses. Focal points of the study included:

- Extending Runway 18/36 to allow for greater utilization by larger business jet aircraft
- Rerouting of surface road around the runway extension or construction of an under-runway tunnel
- Reducing GPS instrument approach visibility minimums to improve airport operational capacity
- Taxiway modifications to correct non-standard geometry
- Expansion of general aviation terminal building to accommodate increases in travelers
- Identification of new hangar and apron sites to support on-airport businesses and provide additional aircraft storage capacity





Colonel James Jabara Airport, Wichita, Kansas

Project: LP Update and Narrative Report

Completed: December 2021

Key Personnel: Patrick Taylor, Project Manager **Reference:** John Oswald, Director of Engineering

(316) 946-4715



Colonel James Jabara Airport is a reliever airport owned and operated by the Wichita Airport Authority/City of Wichita (the sponsor). This project focused on updating the airport layout plan (ALP) and providing the sponsor with a new 20-year capital improvement program. The project included extensive analysis of development alternatives and a determination of the highest and best use of airport property. The analysis included an obstruction survey, in which several tree stands were identified as obstructions and subsequently determined to be hazards. Removal of these obstructions became priority projects for the FAA and the sponsor. Recommendations from the ALP update and narrative report included:

- Construction of several taxilanes to facilitate access to hangar development areas
- Construction of a second parallel taxiway to provide access to an 80-acre parcel of undeveloped land
- Identification of certain property interests for acquisition to accommodate future aeronautical development
- Closure of a low-utility public road due to its incompatibility with the runway protection zone

