

Introduction



PHOENIX DEER VALLEY AIRPORT

The Phoenix Deer Valley Airport (DVT) Master Plan Study has been undertaken to evaluate the airport's capabilities and role, to forecast future aviation demand, and to plan for the timely development of new or expanded facilities that may be required to meet that demand. The ultimate goal of the master plan is to provide systematic guidelines for the airport's overall maintenance, development, and operation.

The master plan is intended to be a proactive document which identifies and then plans for future facility needs well in advance of the actual need for the facilities. This is done to ensure that the City of Phoenix Aviation Department can coordinate project approvals, design, financing, and construction to avoid

experiencing detrimental effects due to inadequate facilities.

An important result of the master plan is reserving sufficient areas for future facility needs. This protects development areas and ensures they will be readily available when required to meet future needs. The intended result is a detailed land use concept which outlines specific uses for all areas of airport property.

The preparation of this master plan is evidence that the City of Phoenix recognizes the importance of air transportation to the community and the associated challenges inherent in providing for its unique operating and improvement needs. The cost of maintaining an airport is an investment which yields impressive benefits to the



community and the region. With a sound and realistic master plan, Phoenix Deer Valley Airport can maintain its role as an important link to the national air transportation system for the community and maintain the existing public and private investments in its facilities.

MASTER PLAN OBJECTIVES

The primary objective of the master plan is to provide the community and public officials with guidance for future development in a manner that will satisfy aviation demands and be wholly compatible with the environment. The accomplishment of this objective requires the evaluation of the existing airport and determination of what actions should be taken to maintain an adequate, safe, and reliable airport facility to meet the general aviation needs of the area. This master plan will provide an outline of necessary development and give those responsible advance notice of future airport funding needs so that appropriate steps can be taken to ensure that adequate funds are budgeted and planned.

Specific objectives of the Phoenix Deer Valley Airport Master Plan are:

- & To preserve and protect public and private investments in existing airport facilities;
- & To enhance the safety of aircraft operations;

- & To be reflective of community and regional goals, needs, and plans;
- & To ensure that future development is environmentally compatible;
- & To establish a schedule of development priorities and a program to meet the needs of the proposed improvements in the master plan;
- & To develop a plan that is responsive to air transportation demands;
- & To develop an orderly plan for use of the airport;
- & To coordinate this master plan with local, regional, state, and federal agencies, and;
- & To develop active and productive public involvement throughout the planning process.

The master plan will accomplish these objectives by carrying out the following:

- & Determining projected needs of airport users through the year 2025;
- & Identifying existing and future facility needs;
- & Evaluating future airport facility development alternatives which will optimize airport capacity and aircraft safety; and

% Developing a realistic, common-sense plan for the use and/or expansion of the airport.

MASTER PLAN ELEMENTS AND PROCESS

The Phoenix Deer Valley Airport Master Plan is being prepared in a systematic fashion following FAA guidelines and industry-accepted principles and practices. The master plan for Phoenix Deer Valley Airport has six chapters that are intended to assist in the discovery of future facility needs and provide the supporting rationale for their implementation.

Chapter One - Inventory summarizes the inventory efforts. The inventory efforts are focused on collecting and assembling relevant data pertaining to the airport and the area it serves. Information is collected on existing airport facilities and operations. Local economic and demographic data is collected to define the local growth trends. Planning studies which may have relevance to the master plan are also collected.

Chapter Two - Forecasts examines the potential demand for aviation activity at the airport. This analysis utilizes local socioeconomic information, as well as national air transportation trends to quantify the levels of aviation activity which can reasonably be expected to occur at Phoenix Deer Valley Airport through the year 2025. The results of this effort are used to determine the types and sizes of facilities which will be required to meet the

projected aviation demands on the airport through the planning period.

Chapter Three - Facility Requirements comprises the demand capacity and facility requirements analyses. The intent of this analysis is to compare the existing facility capacities to forecast aviation demand and determine where deficiencies in capacities (as well as excess capacities) may exist. Where deficiencies are identified, the size and type of new facilities to accommodate the demand are identified. The airfield analysis focuses on improvements needed to serve the type of aircraft expected to operate at the airport in the future, as well as navigational aids to increase the safety and efficiency of operations. This element also examines the general aviation terminal, hangar, apron, and support needs.

Chapter Four - Alternatives considers a variety of solutions to accommodate the projected facility needs. This element proposes various facility and site plan configurations which can meet the projected facility needs. An analysis is completed to identify the strengths and weaknesses of each proposed development alternative, with the intention of determining a single direction for development.

Chapter Five - Airport Plans provides both a graphic and narrative description of the recommended plan for the use, development, and operation of the airport. An environmental overview is also provided. The master plan also includes the official Airport Layout Plan (ALP) and detailed technical drawings depicting related air-

space, land use, and property data. These drawings are used by the Federal Aviation Administration (FAA) in determining grant eligibility and funding.

Chapter Six - Financial Plan focuses on the capital needs program which defines the schedules, costs, and funding sources for the recommended development projects.

COORDINATION

The Phoenix Deer Valley Airport Master Plan is of interest to many within the local community. This includes local citizens, community organizations, airport users, airport tenants, area-wide planning agencies, and aviation organizations. As an important component of the regional, state, and national aviation systems, the Phoenix Deer Valley Airport Master Plan is of importance to both state and federal agencies responsible for overseeing air transportation.

To assist in the development of the master plan, the City of Phoenix identified a group of community members and aviation interest groups to act in an advisory role in the development of

the master plan. Members of the Planning Advisory Committee (PAC) reviewed phase reports and provided comments throughout the study to help ensure that a realistic, viable plan was developed. The list of committee members is included on the acknowledgements page at the beginning of this master plan.

To assist in the review process, draft working papers were prepared at various milestones in the planning process. The working paper process allowed for timely input and review during each step within the master plan to ensure that all master plan issues were fully addressed as the recommended program developed.

A series of public information workshops were held as part of the plan coordination. The public information workshops were designed to allow any and all interested persons to become informed and provide input concerning the master plan. Notices of meeting times and locations were advertised through the media as well as local neighborhood associations. The draft working papers were made available to the public online at www.deervalleyairport.com.