



## **SECTION 7 – AIRPORT LAYOUT PLAN DRAWINGS**

### 7.1 PURPOSE

This Section includes the full-set of Airport Layout Plan (ALP) drawings prepared as part of the Dare County Regional Airport Layout Plan Update. **The proposed improvements, as depicted, include projects recommended to meet safety and demand-related needs throughout the 20-year planning period.** Aerial photography taken for the Master Plan Study is also shown.

The ALP drawings are the result of discussions with local, state and federal officials to determine the optimum plan for a safe, efficient and economical facility. In addition, the ALP drawings have been updated to reflect airport design standards in accordance with FAA Advisory Circular 150/5070-6A, *Airport Master Plans*, 150-5300-13, *Airport Design* (Change #8), and in conformance with the FAA-ATL-ADO Airport Layout Plan Checklist (May, 2004).

The following are the ALP drawing sheets updated as part of this plan:

- Sheet 1 – ALP, Cover Sheet
- Sheet 2 - ALP, Airport Layout Drawing (ALD)
- Sheet 3 - ALP, Terminal Area Drawing
- Sheet 4 - ALP, Airport Airspace Drawing
- Sheet 5 - ALP, Runway 5 Inner-Approach Drawing
- Sheet 6 - ALP, Runway 23 Inner-Approach Drawing
- Sheet 7 - ALP, Runway 17 Inner-Approach Drawing
- Sheet 8 - ALP, Runway 35 Inner-Approach Drawing
- Sheet 9 – ALP, Airport Land Use Map
- Sheet 10 – ALP, Airport Property Map

#### **ALP, Title Sheet**

A drawing sheet denoting the Airport name, grant numbers and an index chronicling the ALP drawings contained in the ALP set. This sheet also contains the Airport location map.

#### **ALP, Airport Layout Drawing (ALD)**

The ALP, Airport Layout Drawing (ALD) serves as the official drawing of record for the Dare County Regional Airport. The ALD consists of a scaled single-page drawing depicting existing and planned improvements throughout the 20-year Airport Development Plan. Specifically, the ALD depicts the limits of airport property interests, land uses and configuration of facilities in compliance with geometric design separation and clearance standards, including airspace and navigational (NAVAID) facilities. Existing or future deviations or modifications to standards, if applicable, are appropriately noted.



Major components of the ALD include:

- Depiction of Airport Facilities and Land Use;
- Basic Data Table;
- Runway Data Table;
- Modification to Airport Design Standards (none noted);
- General Notes; and
- Wind Rose Data and Crosswind Coverage Data

### **ALP, Terminal Area Plan Drawing**

A scaled drawing depicting close-in terminal area features for the airside and landside layout. The drawing shows required separation requirements and design standards, and includes general notes, data sources, and a legend noting key drawing symbols. Key facilities shown on the drawing include:

- Apron Configuration and Aircraft Parking Positions;
- Aircraft Taxiways and Taxilanes;
- Airport Terminal Building;
- Terminal Roadway Circulation and Auto Parking;
- Aircraft Hangars and Airport Buildings;
- Fueling Facilities/Fencing;
- Airport Storage Facilities;
- Commercial/Tenant Operating Areas; and
- Reserved Terminal Area Space for Long-Term Development.

### **ALP, Airport Airspace Drawing**

A scaled drawing identifying the limits of recommended land use control for the height of objects surrounding the Airport. Airspace features correspond with the ultimate runway dimension as depicted on the ALP, Airport Layout Drawing. A digital USGS base map at a scale of 1" = 2,000' is used as the base map, in which each of the Federal Aviation Regulations (FAR) Part 77, Subpart C imaginary surfaces (primary, horizontal, conical, approach and transitional) is depicted in plan and profile view. The approach surface is depicted in full-length view using 50-foot contour intervals. An obstruction data table provides structure disposition per existing and future FAR Part 77 surfaces. In addition, the drawing includes an isometric cut-away view of airspace features, general notes, data sources, and a legend for key drawing symbols.

### **Inner-Approach Surface Drawing(s)**

A scaled drawing depicting close-in plan and profile approach features beyond each runway end. The drawing identifies obstruction and non-compatible land uses within the runway protection zone and airspace surfaces extending beyond runway



centerline. Airspace surfaces are depicted for disposition of obstructions to navigable airspace. The limits of drawing extend to a point where the FAR Part 77, Subpart C approach surface reaches 100' height above the runway end elevation. Obstructions are indexed in plan and profile view, with an obstruction table used to denote existing and future obstructions to FAR Part 77 surfaces. The recommended mitigation of obstructions are noted, to correspond with the Airport's development plan. A general note section includes data sources and applicable reference. A legend is used to note key drawing symbols.

### **Airport Land Use Plan**

A scaled drawing depicting existing and planned land uses, both on and off the Airport. The drawing provides recommended land uses for aviation and non-aeronautical land uses within the Airport vicinity, as designated by local planning and ordinances. The drawing contains the 65 DNL (decibel) generated by the FAA Integrated Noise Model (INM Version 6.1C) using projected 20-year traffic levels. Also shown is the FAA Land Use Compatibility table for noise from FAA Advisory Circular 150/5050-1.

The following are major items depicted on the drawing:

- Airfield Operating Areas;
- Terminal Area;
- Ground Access System;
- Other Aeronautical and Non-Aeronautical Uses;
- Surrounding Land Use Areas/Designations; and
- 65 DNL noise contour

### **Airport Property Map**

A scaled drawing depicting airport property interests as consistent with the Airport Layout Drawing. This drawing documents past Airport land acquisition, including fee-simple and easement tracts, and summarizes how these tracts have been acquired or released (i.e., federal funds, surplus property, local funds, etc.). A drawing table lists an inventory of all Airport property parcels by number; including the grantor, grantee, type of interest, acreage, grant project number, purpose, and book, page and date of recording.

### **Airport Ordinance Map**

**Dare County Regional Airport Height Restriction Ordinance Map:** A map depicting the height restriction zone requirements to regulate and restrict the height of structures and objects of natural growth, and otherwise regulating the use of property in the vicinity of the Airport. The updated Ordinance Map reflects the ALP ultimate runway development plan for an extension of Runway 5-23 to 5,500'

**END OF SECTION #7**