

## Airport Master Plan Project Overview

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### 1. PROJECT OVERVIEW

#### FAA Funding

- Federal Airport Improvement Program (AIP)
- Funding for Airports in the National Plan of Integrated Airport Systems (NPIAS)
- Up to \$150,000 per year in general aviation “non-primary entitlement” (NPE) grants
- NPE Funds can roll over for 4 years
- 10% local match required under current program
- FAA Discretionary Grants available for high priority large projects on a limited basis

#### FAA Funding Requirements

- FAA funding is only available for projects that are consistent with FAA design standards. Projects must be included on the FAA approved Airport Layout Plan
- The airport sponsor must sign grant assurances when funding is received that commit the airport to maintain facilities paid for with FAA grant funding for 20 years for construction projects and in perpetuity for land acquisition
- For most General Aviation airports, FAA funding is a vital component of the funding necessary to maintain the airport

#### FAA Design Standards

- Applicable design standards for an airport are determined by the Design Aircraft, or family grouping of similar aircraft.
- The Design Aircraft is defined as the most demanding aircraft that uses an airport and has at least 500 take offs and landings annually

**KEY WORK ELEMENTS:**

- Element 1 -Study Initiation and Management;
- Element 2 - AGIS Survey;
- Element 3 -Airport Data Collection and Facilities Inventories;
- Element 4 - Summary of Environmental Status;
- Element 5 - Aeronautical Activity Forecasts and Demand Capacity Analyses;
- Element 6 - Facility Requirements;
- Element 7 - Alternatives Analysis;
- Element 8 - Airport Layout and Terminal Areas Plans;
- Element 9 - Compatible Land Use Planning in the Vicinity of Airports;
- Element 10 - Prioritized Capital Improvement Program and Cost Estimates;
- Element 11 - Airport Financial Plan;
- Element 12 - Agency Coordination;
- Element 13 - Public Participation and Information Process;
- Element 14 - Recycling and Solid Waste Management Plan; and
- Element 15 - Reports and Documentation

**Inventory-** document and evaluate existing facilities and conditions

**Forecasts** - define current activity and project future aviation activity over the twenty-year planning period:

- Based Aircraft
- Aircraft Operations
- Design Aircraft (Current/Future)
- Specific Activity Breakdowns (Peaking, Aircraft Fleet Mix, etc.)

**Facility Requirements Analysis-** define current and future airport facility needs based on selected aviation activity forecast for the twenty-year planning period:

- Airside (runway, taxiway, lighting, etc.)
- Landside (aircraft parking, hangar, aircraft fueling, fixed base operator, etc.)
- Instrument Approach, On-site Weather Observation
- Support (utilities, surface access, vehicle parking, etc.)

**Airport Development Alternatives-** create options for developing new facilities to meet forecast demand and facility requirements:

- Prepare and Present Draft Preliminary Options
- Public and Planning Advisory Committee Review
- Refine Option Elements Based on Input
- Prepare and Present Preliminary Preferred Alternative
- Public and Technical Advisory Committee Review

### Desired Outcomes

- Maintain the airport's current aeronautical capabilities and accommodate future needs, while meeting FAA standards.
- Create an effective improvement program that establishes clear priorities that are financially feasible
- Upgrade airport capabilities based on safety needs, technology, etc.
- Minimize impacts on surrounding property owners and neighbors

## 2. DISCUSSION OF KEY ISSUES SPECIFIC TO THE EPHRATA MUNICIPAL AIRPORT

- Runways, Taxiways Improvements/Maintenance
- Glider Operations
- Helicopter Operations/Parking Positions
- Aerobatic Box
- Terminal areas/Terminal Building
- Aircraft Parking Apron, Hangar Space (T-hangars, individual hangars, commercial hangars)
- Airport Security
- Vehicle Parking
- FBO Facilities
- Aircraft Fuel Storage Areas
- Airfield Lighting, Runway Markings, Signage
- Instrument Approach
- Utilities, Fire Protection
- Aviation and Non-Aviation Land Requirements/Exhibit A

### Key FAA Design Standards

- Runway Length
- Clear Approaches
- Lateral Clearances
- Runway Safety Area (RSA)
- Object Free Area (OFA)
- Obstacle Free Zone (OFZ)