

# Hector Municipal Airport (1D6)

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## Airport Master Plan DRAFT Chapters 1-3

*Prepared by:*







# Chapter One | Introduction

## Section 1 – Introduction

## Section 2 – Goals and Objectives

## Section 3 – Study Design

### 1 | Section 1 – Introduction

The Hector Municipal Airport (“1D6”) is a growing aviation facility located in Southwest Minnesota. It is operated by the Hector Municipal Airport Board and the City of Hector.

Over the last several years, shifts in demands for service, growth in general aviation activity, the completion of needed improvement projects, and updates to FAA design criteria have created changing conditions at 1D6.

In order to provide guidance through these changes and in anticipation of emerging trends, the Hector Airport Board (Board), in conjunction with the Federal Aviation Administration (FAA) and the Minnesota Department of Transportation (MnDOT), has chosen to undertake this airport master planning effort.

This master plan will analyze current demand, forecast future demands, and develop a plan to support the infrastructure needs of 1D6 over the next 20 years. This is the first Airport Master Plan (MP) for 1D6, but it shall reference past documents to review and assist in making decisions throughout the planning process. The MP will be prepared in accordance with the guidance provided in FAA Advisory Circular 150/5070-6B, *Change 2 to Airport Master Plans*.

### 1 | Section 2 – Goals and Objectives

The Airport’s last adopted planning document was the 2003 Airport Layout Plan, which was updated in 2009. Since this time, 1D6 has experienced growth in aviation operations and activity, and completed both safety and capacity projects with the guidance of MnDOT and the FAA. These improvement projects include adding a culvert at the east end of the paved runway, an electrical vault south of the AD building, a 100LL Fuel System, and apron safety fencing.

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This is the first comprehensive Airport Master Plan for 1D6.

The Airport Board has established several goals and objectives for the Master Plan study to guide future development. These include specific areas in which the existing condition is to be evaluated against forecasted future demand, such as hangars, runway length and orientation, and parallel taxiways. The Board’s goals also include the evaluation of opportunities for implementation of improvements to airport safety, security, and enhanced amenities.

<i>Hector Master Plan Goals and Objectives</i>	
<i>Airfield &amp; Airspace</i>	<ul style="list-style-type: none"> <li>- Study operations forecasts and fleet mix</li> <li>- Analyze existing and proposed runways and taxiways based on anticipated critical aircraft, forecast demand, and State/Federal standards, including length and width</li> <li>- Evaluate land use within Runway Protection Zones</li> <li>- Evaluate GPS approach implementation</li> <li>- Evaluate NAVAIDs for compliance with FAA requirements and appropriateness for desired level of service</li> <li>- Evaluate airspace obstructions</li> <li>- Evaluate Runway Safety Areas for compliance with standards</li> </ul>
<i>General Aviation Facilities</i>	<ul style="list-style-type: none"> <li>- Review capacity and layout of existing hangars against forecast</li> <li>- Study apron and hangar area expansion options</li> <li>- Evaluate existing AD Building/amenities against forecast and 1D6’s goals</li> </ul>
<i>Support Facilities</i>	<ul style="list-style-type: none"> <li>- Evaluate equipment needs and storage facilities</li> <li>- Evaluate feasibility of extension of City sewer and natural gas service to the airport</li> </ul>
<i>Access, Circulation, &amp; Parking</i>	<ul style="list-style-type: none"> <li>- Evaluate site security lighting and fencing</li> <li>- Review automobile parking areas</li> </ul>
<i>Other</i>	<ul style="list-style-type: none"> <li>- Update the Airport’s Capital Improvement Plan (ACIP) through MnDOT</li> <li>- Update the Airport Layout Plan (ALP) set</li> <li>- Perform Wildlife Hazard Site Visit and create Management Plan</li> <li>- Develop recommendations for Wildlife Hazards</li> <li>- Develop Solid Waste Management Plan</li> <li>- Develop Obstacle Action Plan</li> <li>- Update Exhibit “A” document</li> <li>- Collect and submit safety critical Airport Geographical Information</li> </ul>

## 1 | Section 3 – Study Design

Development of Airport Master Plans is guided by procedures and requirements stipulated in FAA Advisory Circular (AC) 150/5070-6B, *Change 2 to Airport Master Plans*. The criteria contained in this AC calls for the survey and review of existing conditions at the airport and in the community it serves, development of forecasted aviation demand, and an evaluation of this demand on the Airport’s existing facilities and infrastructure, guiding the development of a recommended 20-year Capital Improvement Plan. In addition to these planning activities, a detailed review of environmental issues is conducted, and a survey of obstructions both off and on airport property – which may impact the safe operation of aircraft – is completed.

A financial feasibility and implementation plan will be developed to guide the execution of the recommended alternative.

The updated Master Plan will abide by the criteria outlined in the AC as described above. In the final chapter, a financial feasibility and implementation plan will be developed to guide the execution of the recommended alternative. The Airport Layout Plan (ALP) drawings will graphically depict current and future recommended activities, Exhibit “A” property map, and airspace and obstruction drawings, as well as other drawings needed to describe the recommended airport development.

