

# Replacement Airport Study

## Landowner Meeting – December 6, 2017

**DRAFT** – Preliminary study only. Not intended for final consumption and/or approval. The contents within this presentation are part of an ongoing Environmental Assessment and will be subjected to review in accordance with the National Environmental Policy Act (NEPA) of 1969. Screening of potential sites will follow the requirements of FAA Order 1050.1 and 5050.4.

*City of*  
**ENNIS**  
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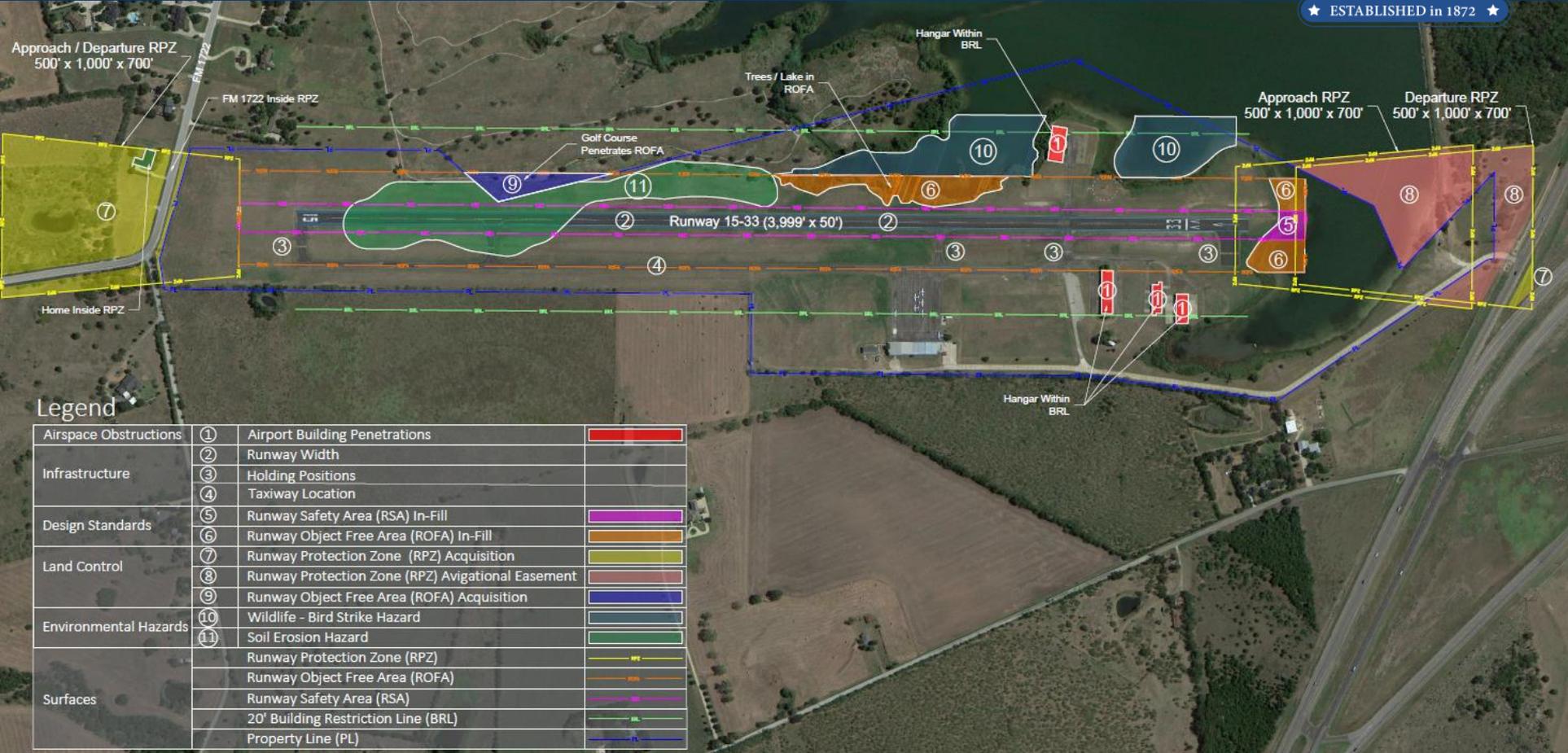
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# Meeting Objectives

1. **Create open dialogue**
2. Tell you why you are here
3. Provide information on what we are doing
4. Discuss potential impacts to you and your property
5. **Listen to you**

# Airport Deficiencies



## Legend

Airspace Obstructions	①	Airport Building Penetrations	
Infrastructure	②	Runway Width	
	③	Holding Positions	
	④	Taxiway Location	
Design Standards	⑤	Runway Safety Area (RSA) In-Fill	
	⑥	Runway Object Free Area (ROFA) In-Fill	
Land Control	⑦	Runway Protection Zone (RPZ) Acquisition	
	⑧	Runway Protection Zone (RPZ) Avigational Easement	
Environmental Hazards	⑨	Runway Object Free Area (ROFA) Acquisition	
	⑩	Wildlife - Bird Strike Hazard	
Surfaces	⑪	Soil Erosion Hazard	
		Runway Protection Zone (RPZ)	
		Runway Object Free Area (ROFA)	
		Runway Safety Area (RSA)	
		20' Building Restriction Line (BRL)	
	Property Line (PL)		

# Typical Aircraft



# Process & Schedule

## Ennis Replacement Airport Study

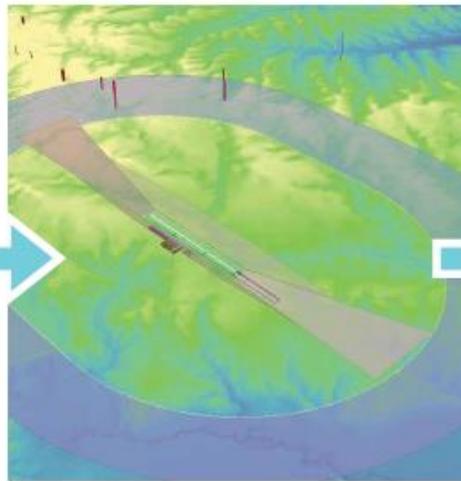
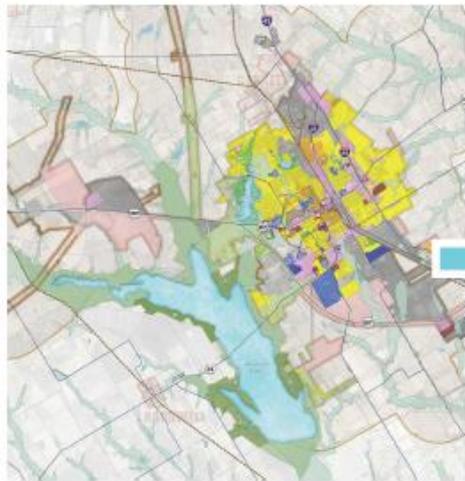


- Forecasts  
Design Criteria  
Cost Estimates
- Existing Site  
2006 Site Alternatives  
New Site Alternatives

- Public Meeting
- Final Site Selection

# Site Screening Criteria

## Initial Screening Criteria



### Location

Ennis City Limits or Ennis ETJ, access to Highways, proximity to existing airports

### Development Potential

Topography, natural and man-made obstructions, airspace, utilities, land use

### Environmental

Wetlands and streams, protected species habitat

### Cost and Expandability

Fill, soils, infrastructure improvements

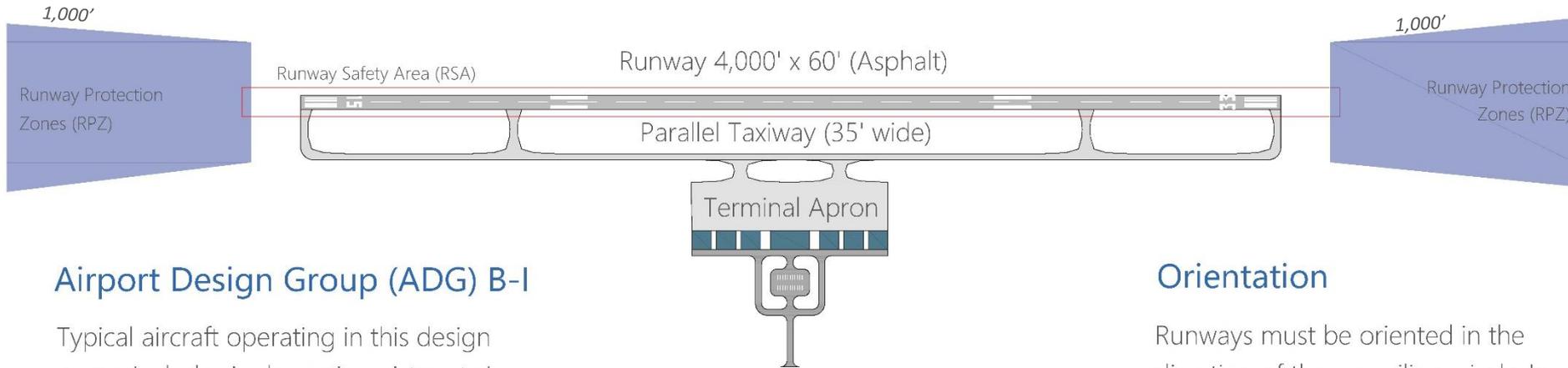
## NEPA Considerations

Reasonable sites will be subjected to review in accordance with the National Environmental Policy Act (NEPA) of 1969. Screening will follow the requirements of FAA Order 1050.1 and 5050.4.

- ▶ Air quality
- ▶ Biological resources (including fish, wildlife, and plants)
- ▶ Climate
- ▶ Department of Transportation Act, Section 4(f)
- ▶ Farmlands
- ▶ Hazardous materials, solid waste, and pollution prevention
- ▶ Historical, architectural, archeological, and cultural resources
- ▶ Land use
- ▶ Natural resources and energy supply
- ▶ Noise and compatible land use
- ▶ Socioeconomics, environmental justice, and children's environmental health and safety risks
- ▶ Visual effects (including light emissions)
- ▶ Water resources (including wetlands, floodplains, surface waters, and groundwater)

# Minimum Site Requirements

## General Layout



## Airport Design Group (ADG) B-I

Typical aircraft operating in this design group include single engine piston, twin-engine piston, and turbo-prop aircraft. May include small jet aircraft.



## Services/Amenities

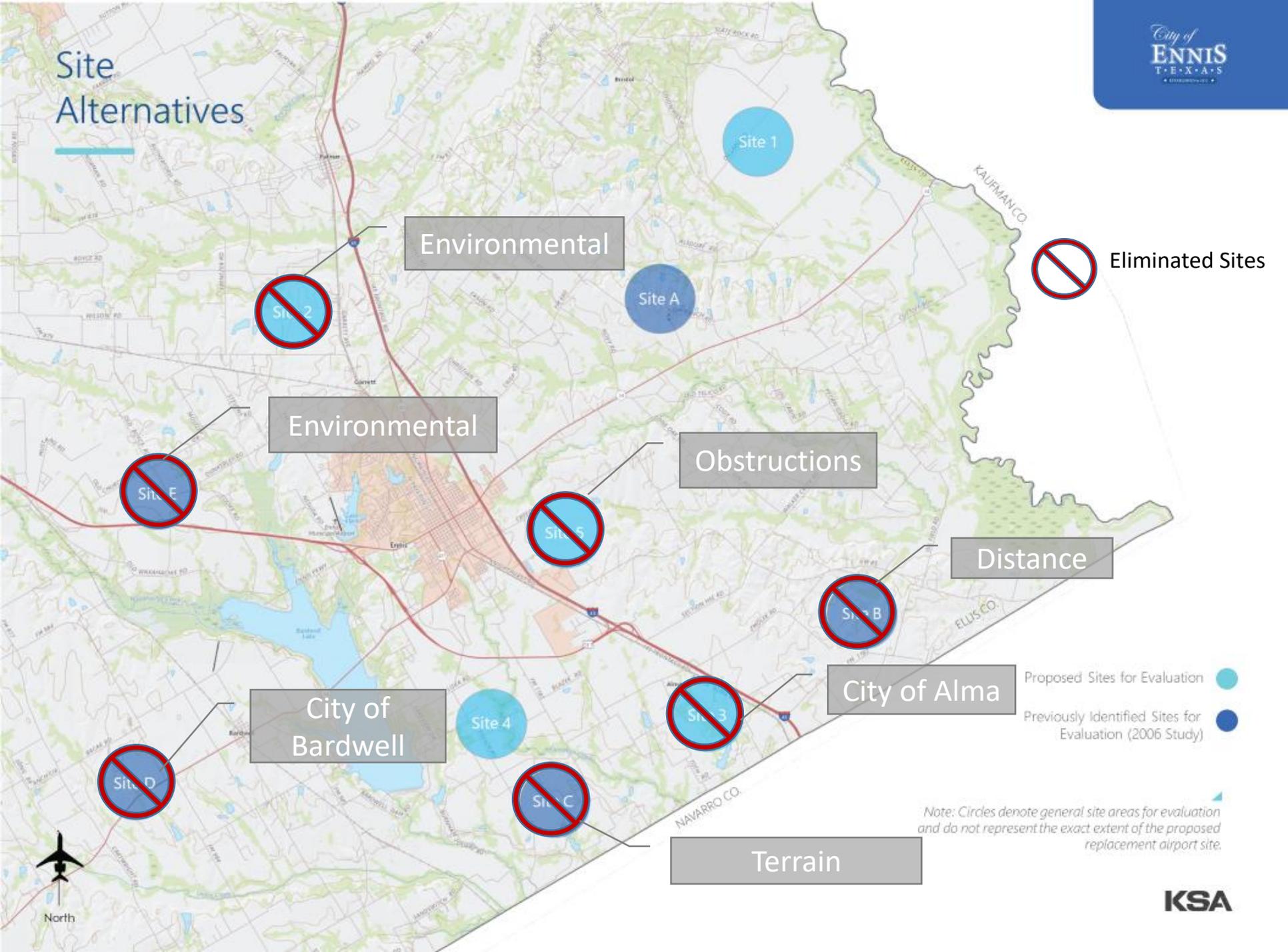
The airport will serve to host based aircraft and essential services for air operations such as hangars, fuel, and terminal building/auto parking.



## Orientation

Runways must be oriented in the direction of the prevailing winds. In this part of the U.S. most runways are oriented from north to south.

# Site Alternatives



Environmental

Environmental

Obstructions

Distance

City of Bardwell

City of Alma

Terrain



Eliminated Sites

- Proposed Sites for Evaluation ●
- Previously Identified Sites for Evaluation (2006 Study) ●

Note: Circles denote general site areas for evaluation and do not represent the exact extent of the proposed replacement airport site.



# Site 1

*NOTE: This layout is one of many configurations possible and is for illustrative purposes only*

Approximately 550 acres

**Legend**

-  Proposed Property Line
-  Runway Markings
-  Runway
-  Hangars
-  Apron
-  Access Road
-  Runway Safety Area (RSA)
-  Taxiway
-  Runway Protection Zones (RPZ)
-  ECAD Parcels
-  Wetlands

**Replacement Municipal Airport - Proposed Site #1**  
**Ennis, Texas**  
**2017**

Site Coordinates (Degrees Minutes Seconds)

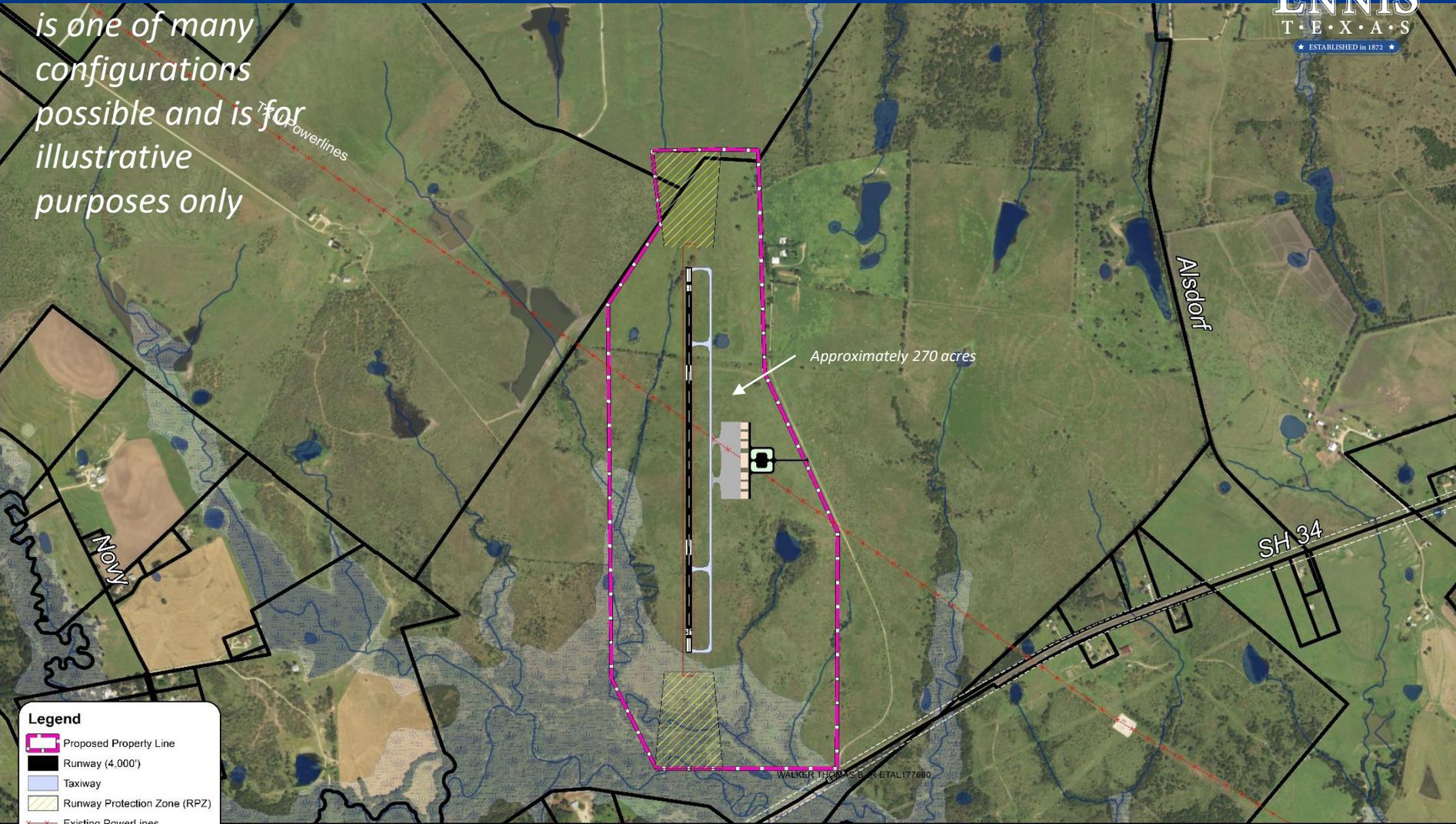
Lat: 32°26'4.67"N  
Long: 96°30'50.48"W

0 0.15 0.3 0.6 Miles



# Site A

**NOTE: This layout is one of many configurations possible and is for illustrative purposes only**

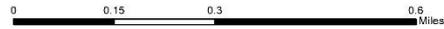


- Legend**
- Proposed Property Line
  - Runway (4,000')
  - Taxiway
  - Runway Protection Zone (RPZ)
  - Existing PowerLines
  - ECAD Parcels
  - Wetlands
  - FEMA Flood Plains

**Replacement Municipal Airport - Proposed Site A  
Ennis, Texas  
2017**

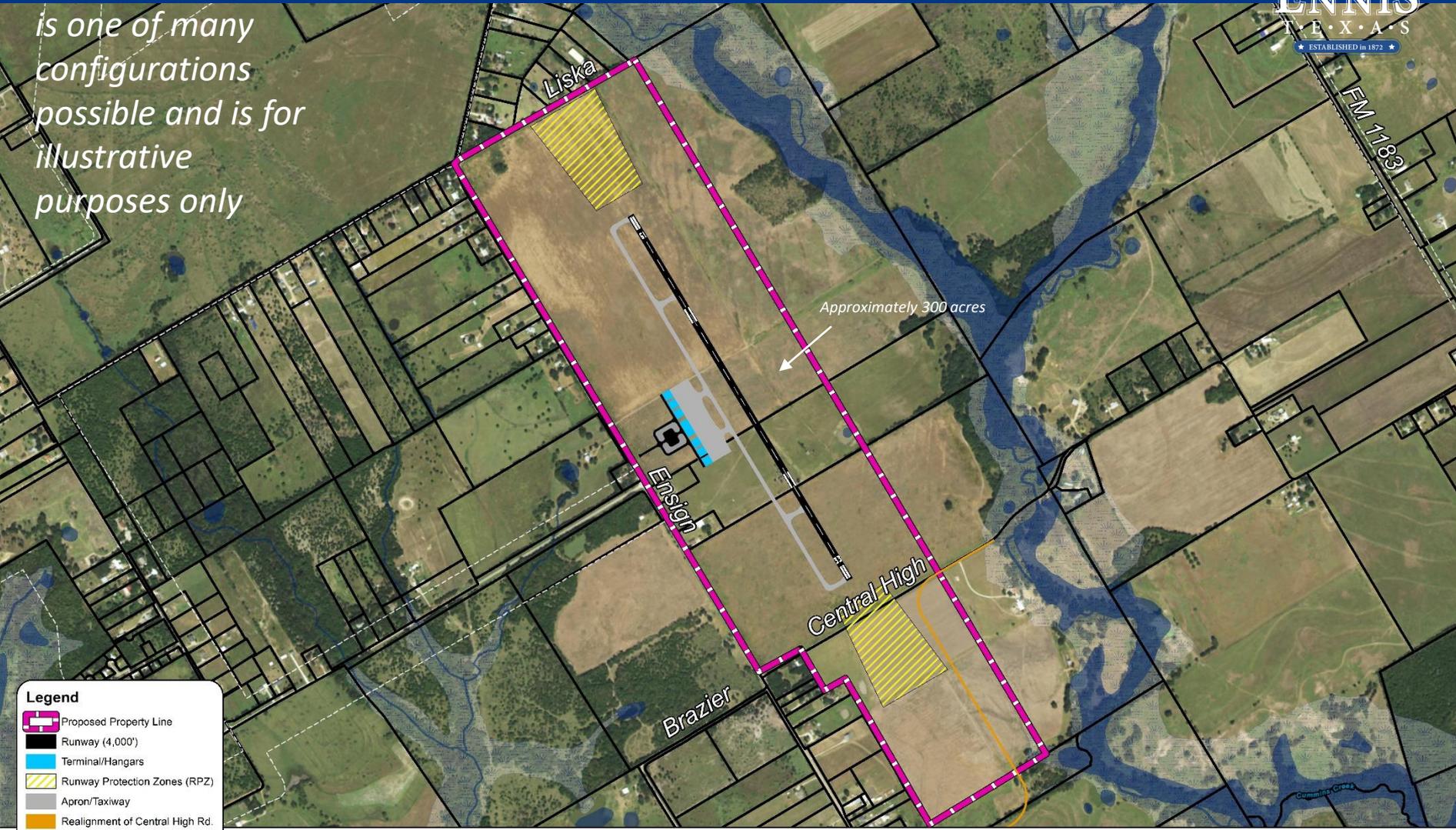
Site Coordinates (Degrees Minutes Seconds)

Lat: 32°22'53.92"N  
Long: 96°33'11.10"W



# Site 4

*NOTE: This layout is one of many configurations possible and is for illustrative purposes only*



**Legend**

-  Proposed Property Line
-  Runway (4,000')
-  Terminal/Hangars
-  Runway Protection Zones (RPZ)
-  Apron/Taxiway
-  Realignment of Central High Rd.
-  ECAD Parcels
-  Wetlands
-  FEMA Flood Plains

**Replacement Municipal Airport - Proposed Site #4**  
**Ennis, Texas**  
**2017**

Site Coordinates (Degrees Minutes Seconds)

Lat: 32°16'24.49"N  
Long: 96°36'55.97"W

0 0.125 0.25 0.5 Miles

