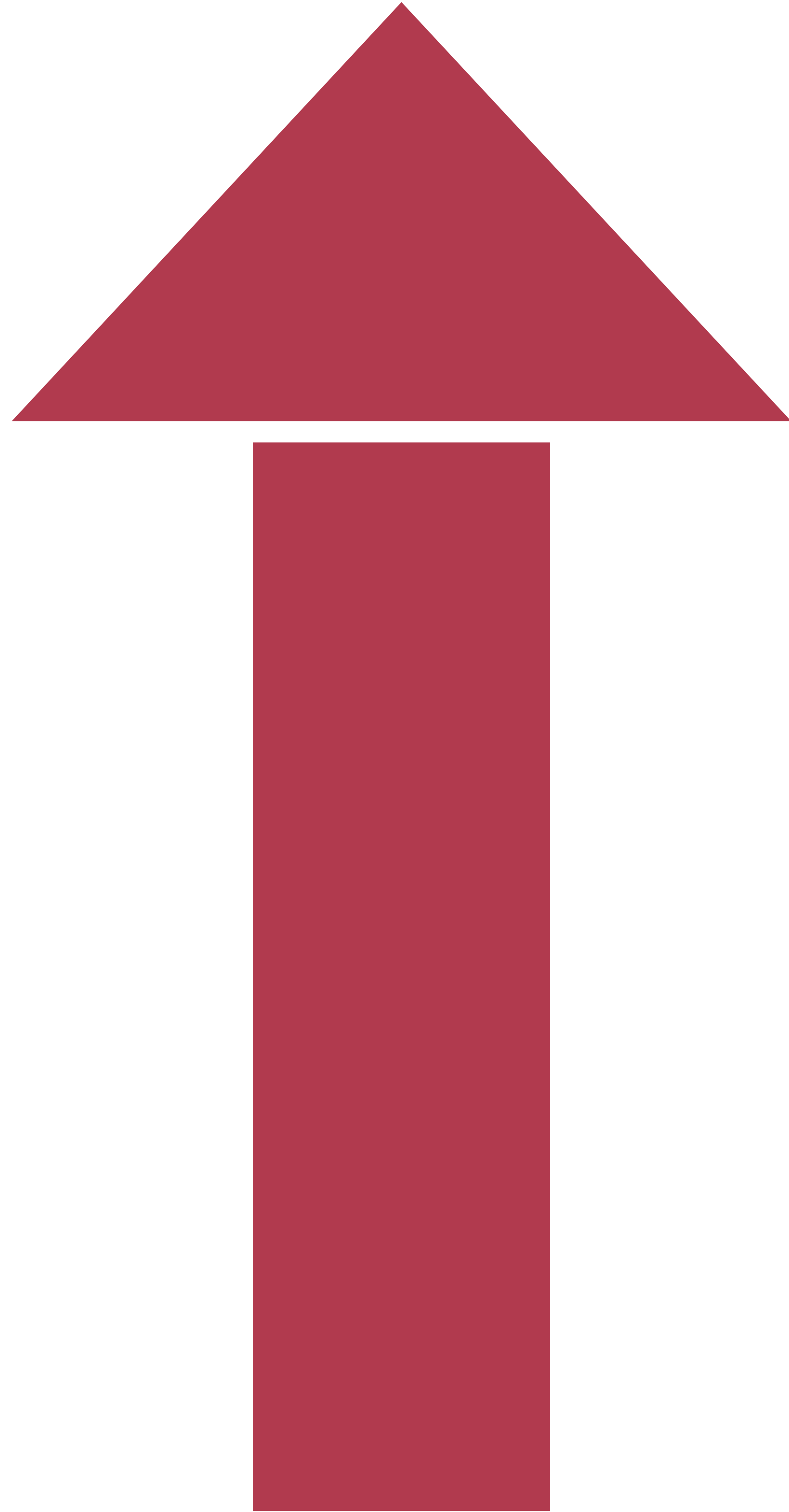
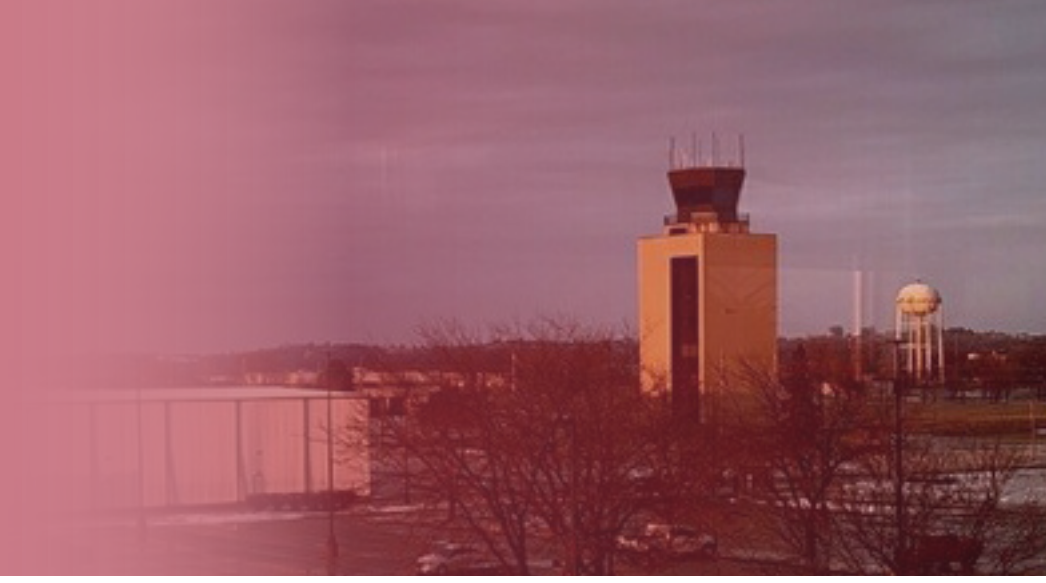


SUX AIRPORT MASTER PLAN

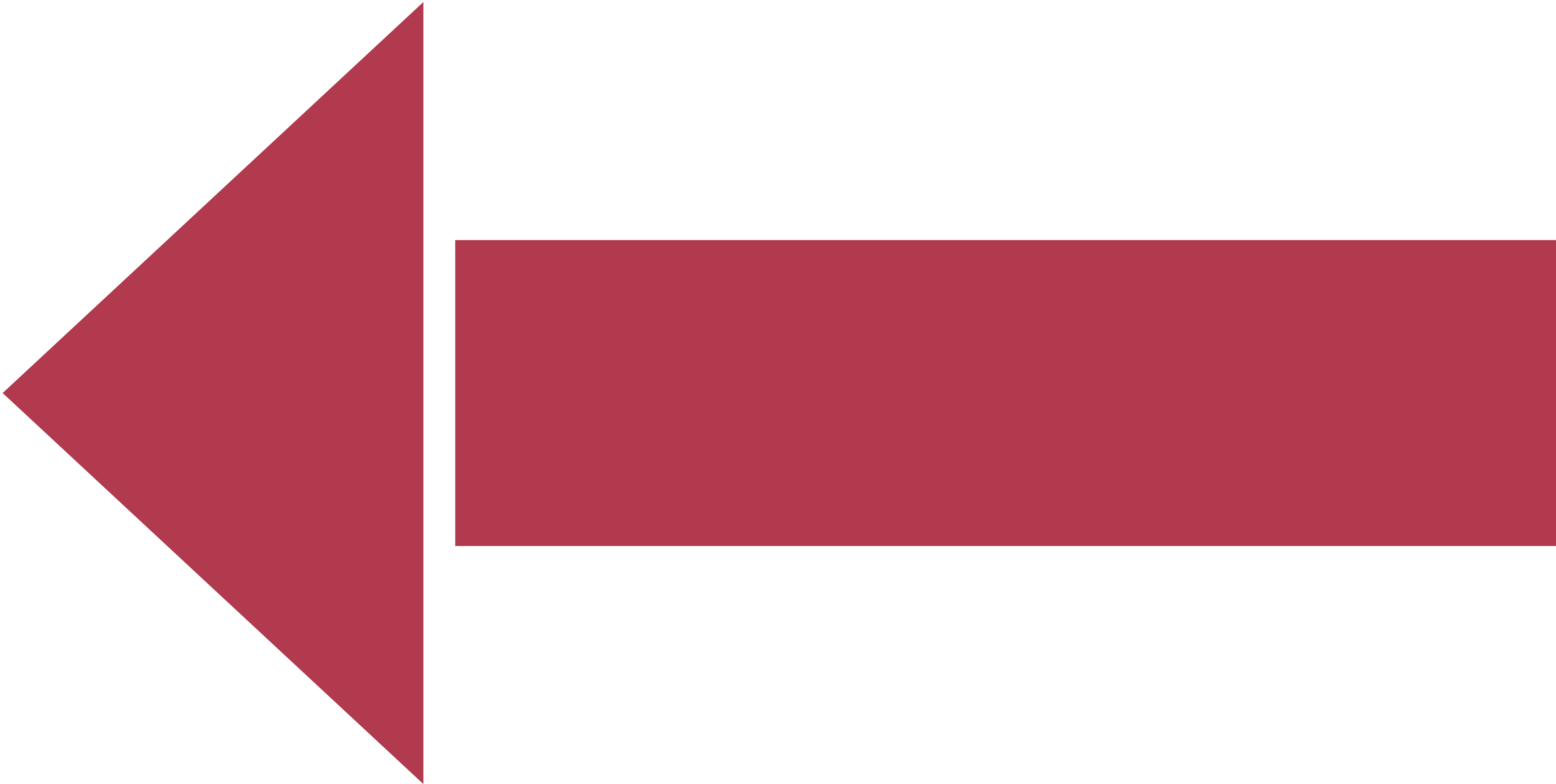
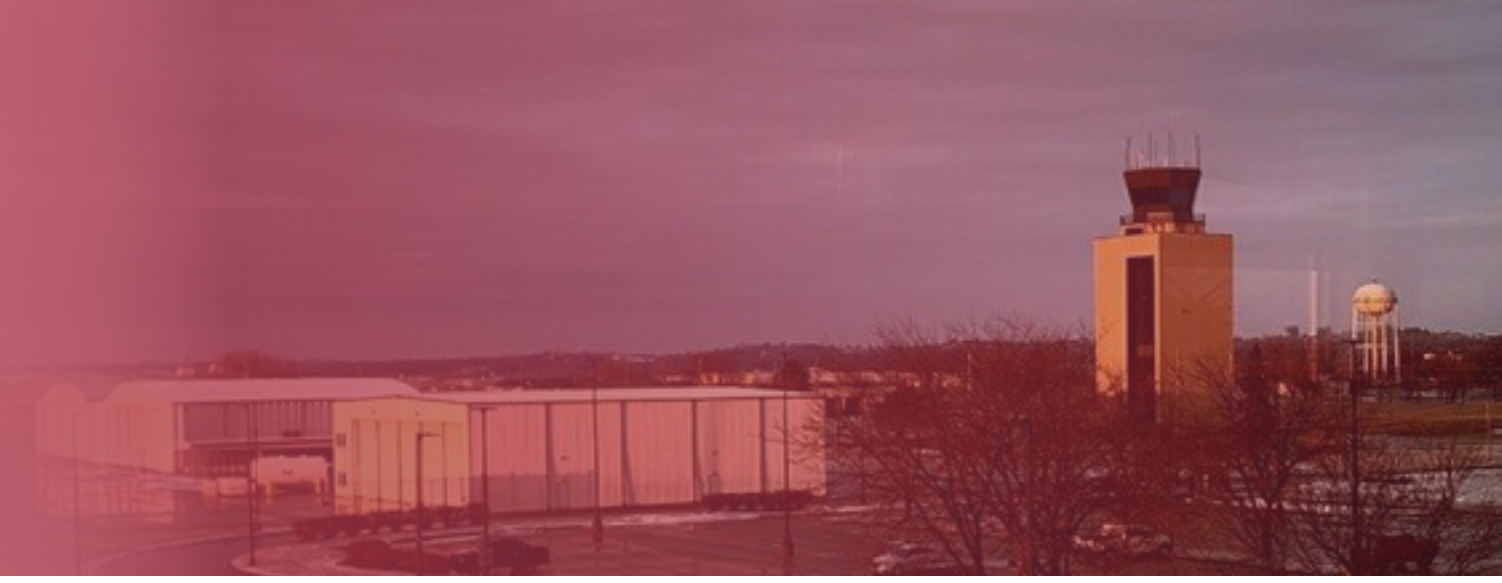




SUX AIRPORT MASTER PLAN



SUX AIRPORT MASTER PLAN



SUX AIRPORT MASTER PLAN



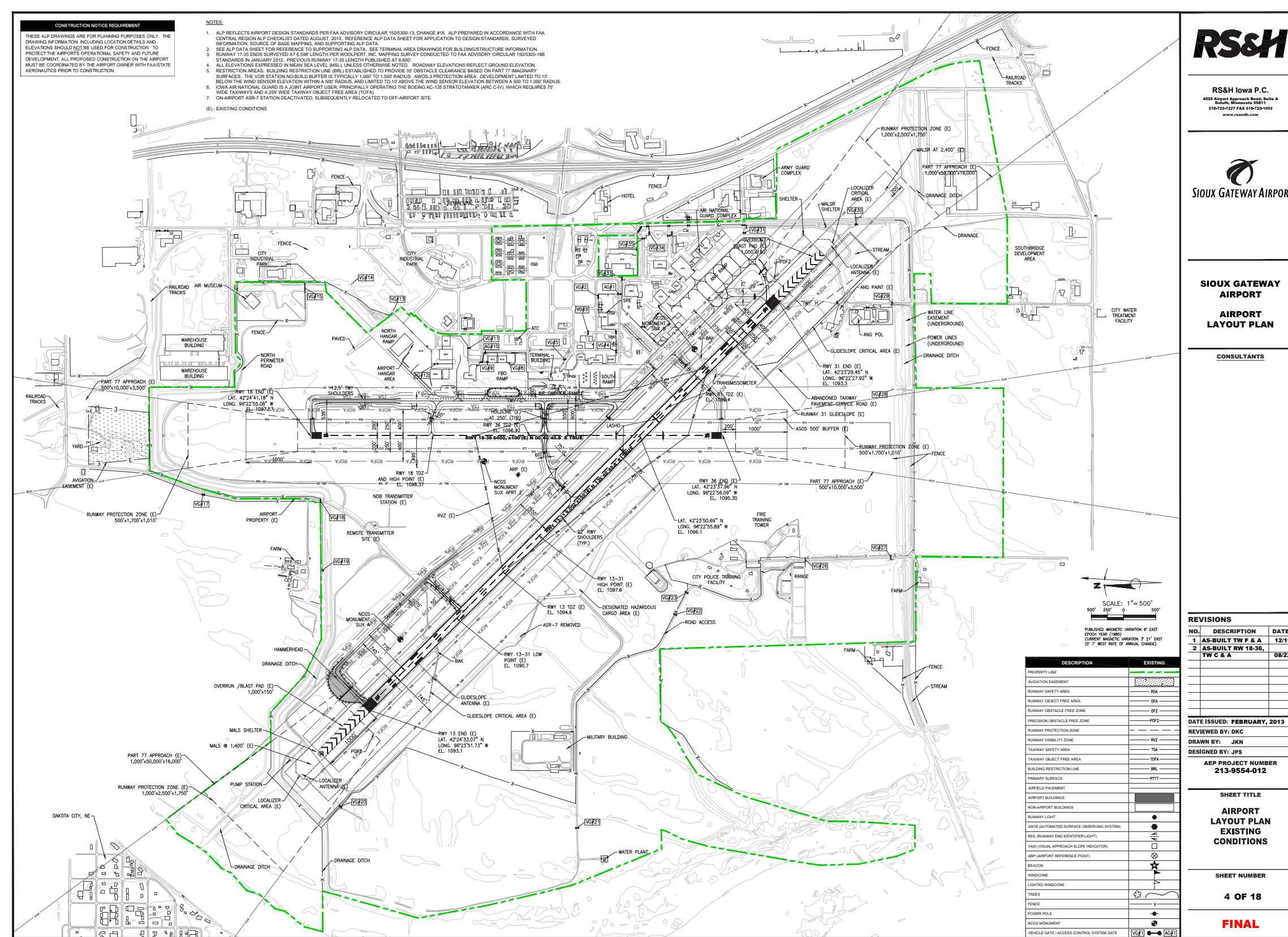
Welcome to the Sioux Gateway Airport (SUX) Master Plan Public Meeting

WHAT IS A MASTER PLAN?

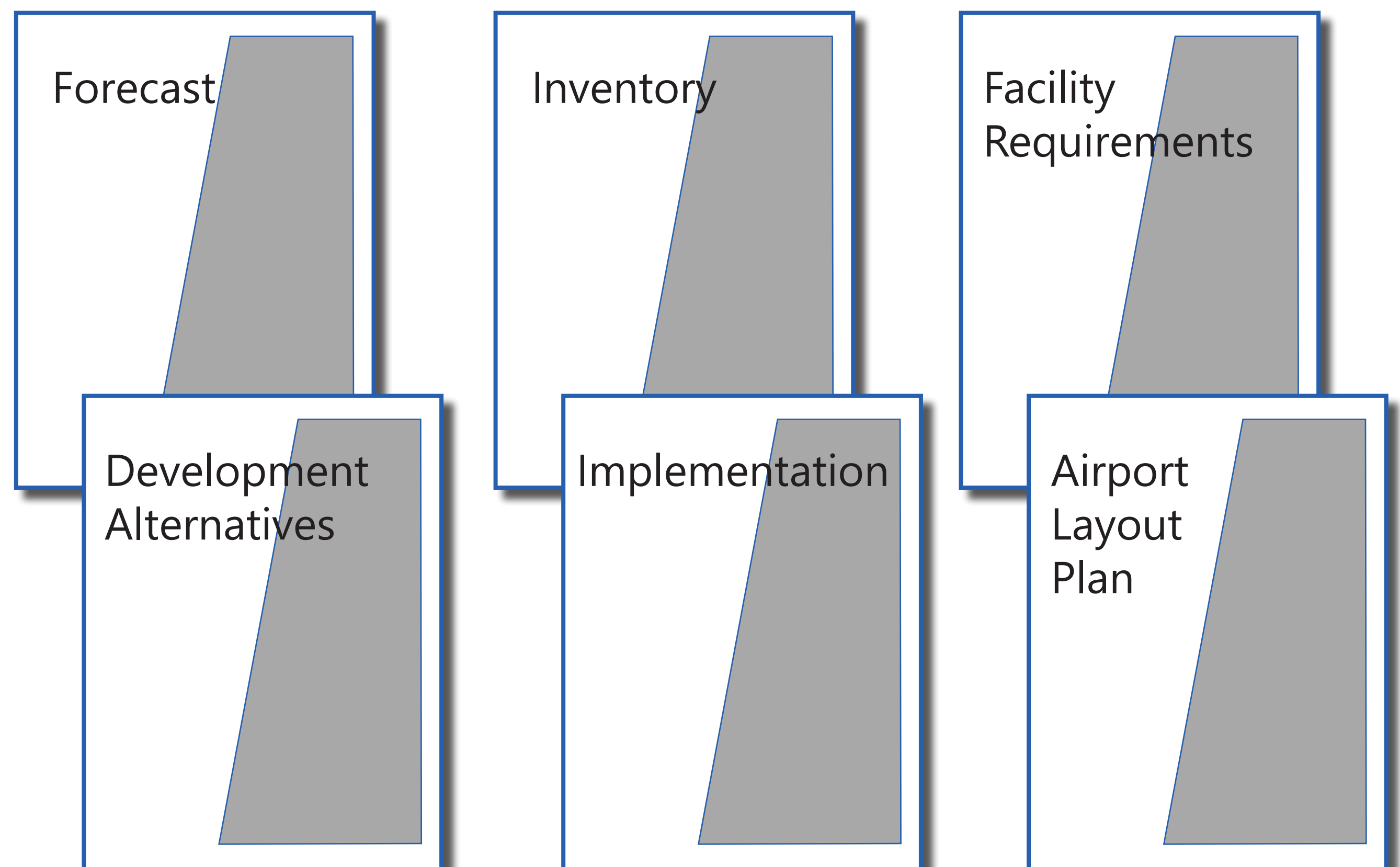
An airport master plan is a comprehensive study of an airport and usually describes the short-, medium-, and long-term development plans to meet future aviation demand.

- FAA Advisory Circular 150/5070-6B, *Airport Master Plans*

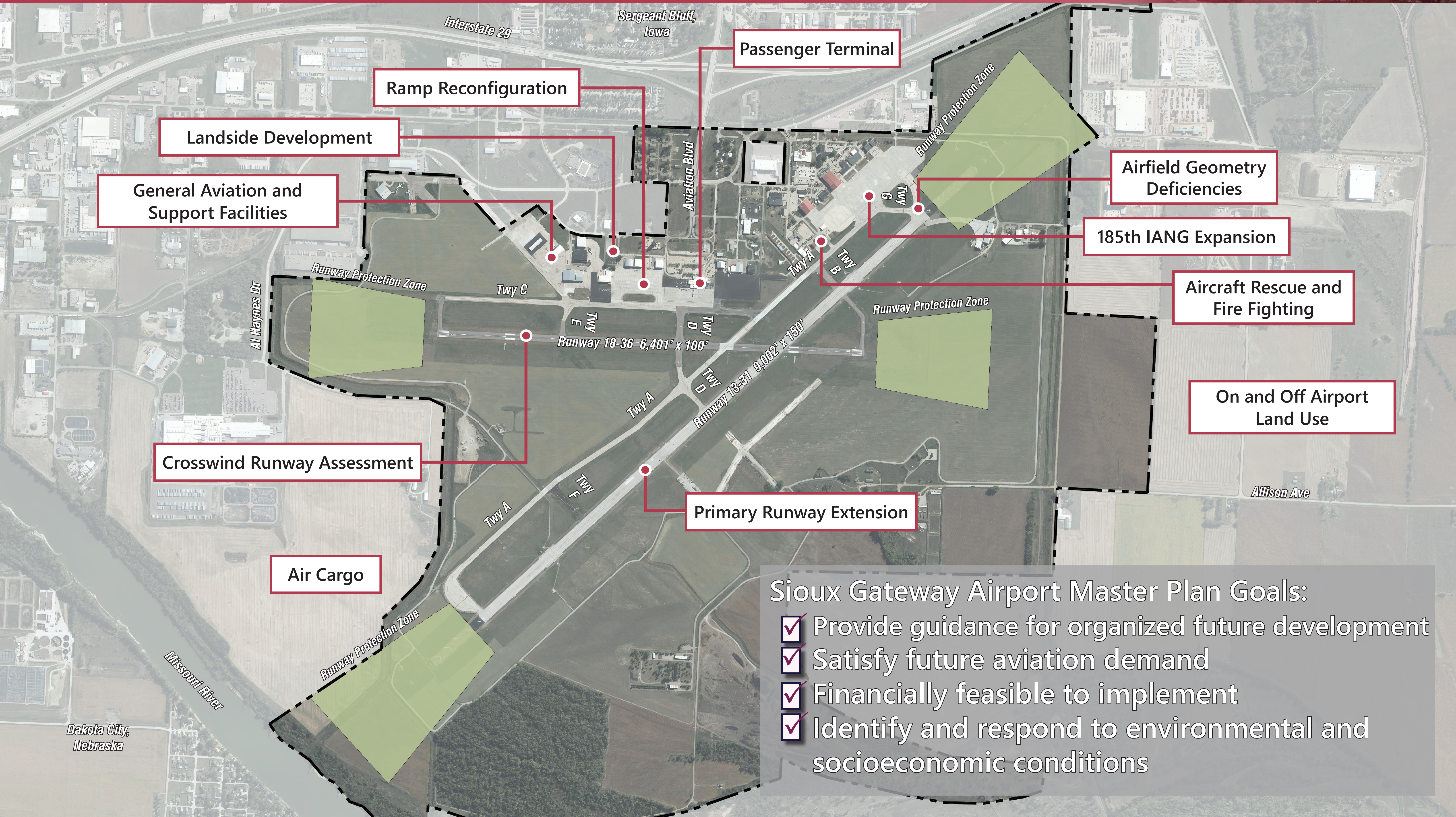
Airport Layout Plan
(illustrates the plan)



Technical Report
(Documents the "how" and "why")



STUDY FOCUS AREAS



Landside Development

General Aviation and Support Facilities

Crosswind Runway Assessment

Air Cargo

Ramp Reconfiguration

Primary Runway Extension

Passenger Terminal

Airfield Geometry Deficiencies

185th IANG Expansion

Aircraft Rescue and Fire Fighting

On and Off Airport Land Use

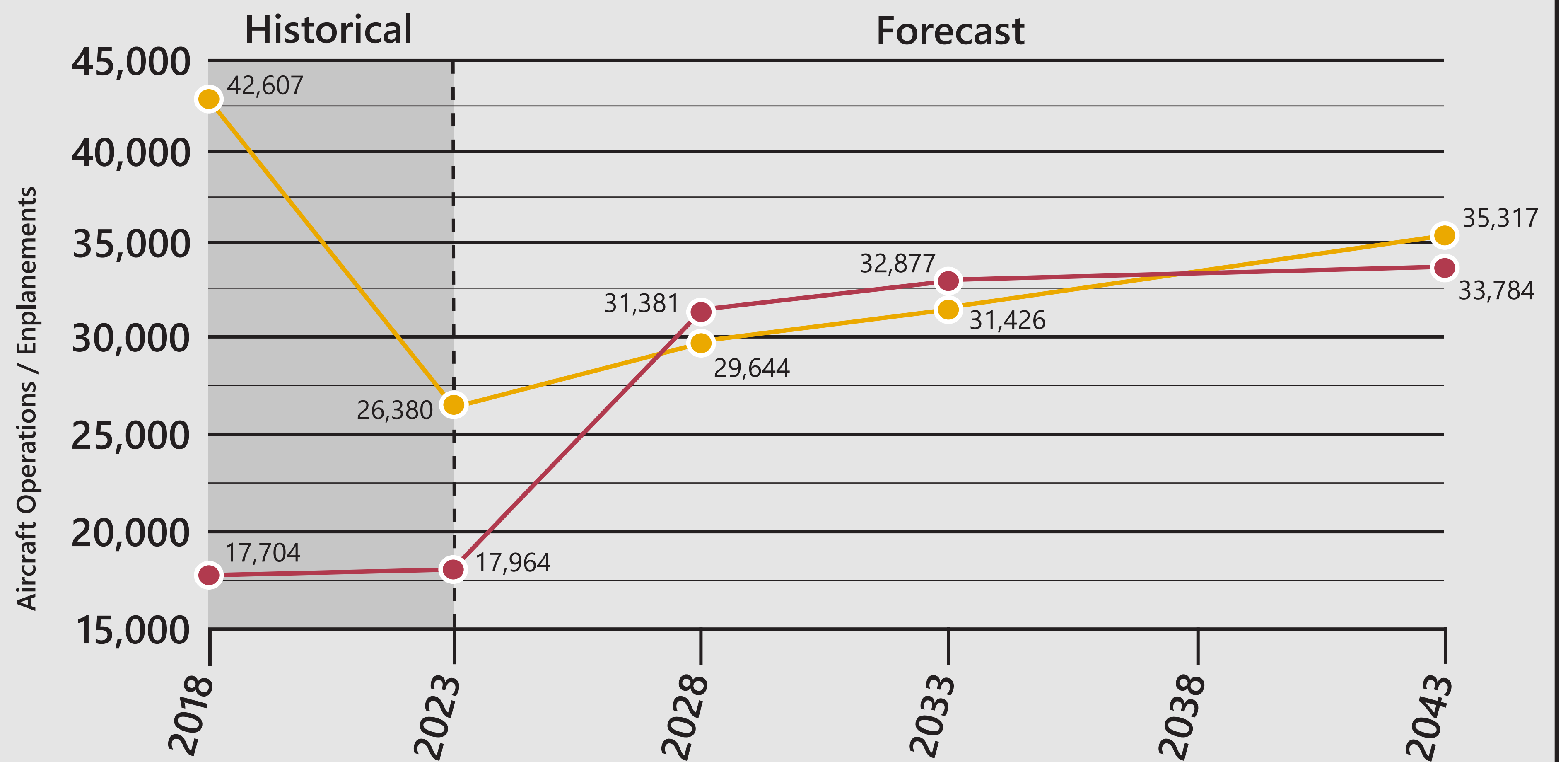
Sioux Gateway Airport Master Plan Goals:

- ✓ Provide guidance for organized future development
- ✓ Satisfy future aviation demand
- ✓ Financially feasible to implement
- ✓ Identify and respond to environmental and socioeconomic conditions

AVIATION DEMAND FORECAST

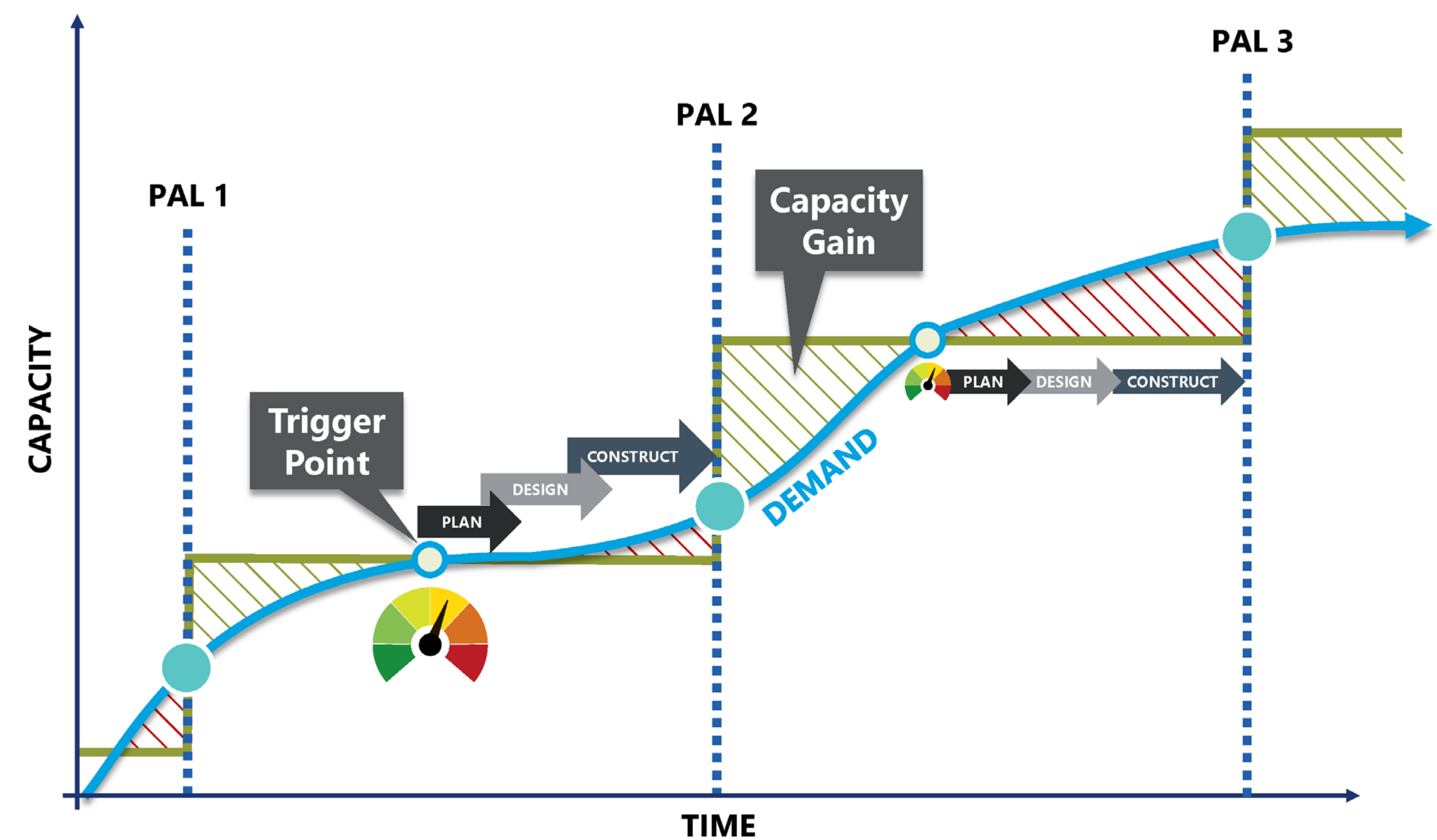
Aircraft Operations and Enplanements

Operations	Base Year (2023)	PAL 1 (2028)	PAL 2 (2033)	PAL 3 (2043)
Passenger	1,419	1,581	1,676	1,884
General Aviation	13,305	23,800	24,300	25,600
Air Taxi	1,421	2,200	2,300	2,500
Military	1,819	3,800	3,800	3,800
Total Operations	17,964	31,381	32,877	33,784
Enplanements	Base Year (2023)	PAL 1 (2028)	PAL 2 (2033)	PAL 3 (2043)
Total Enplanements	26,380	29,644	31,426	35,317

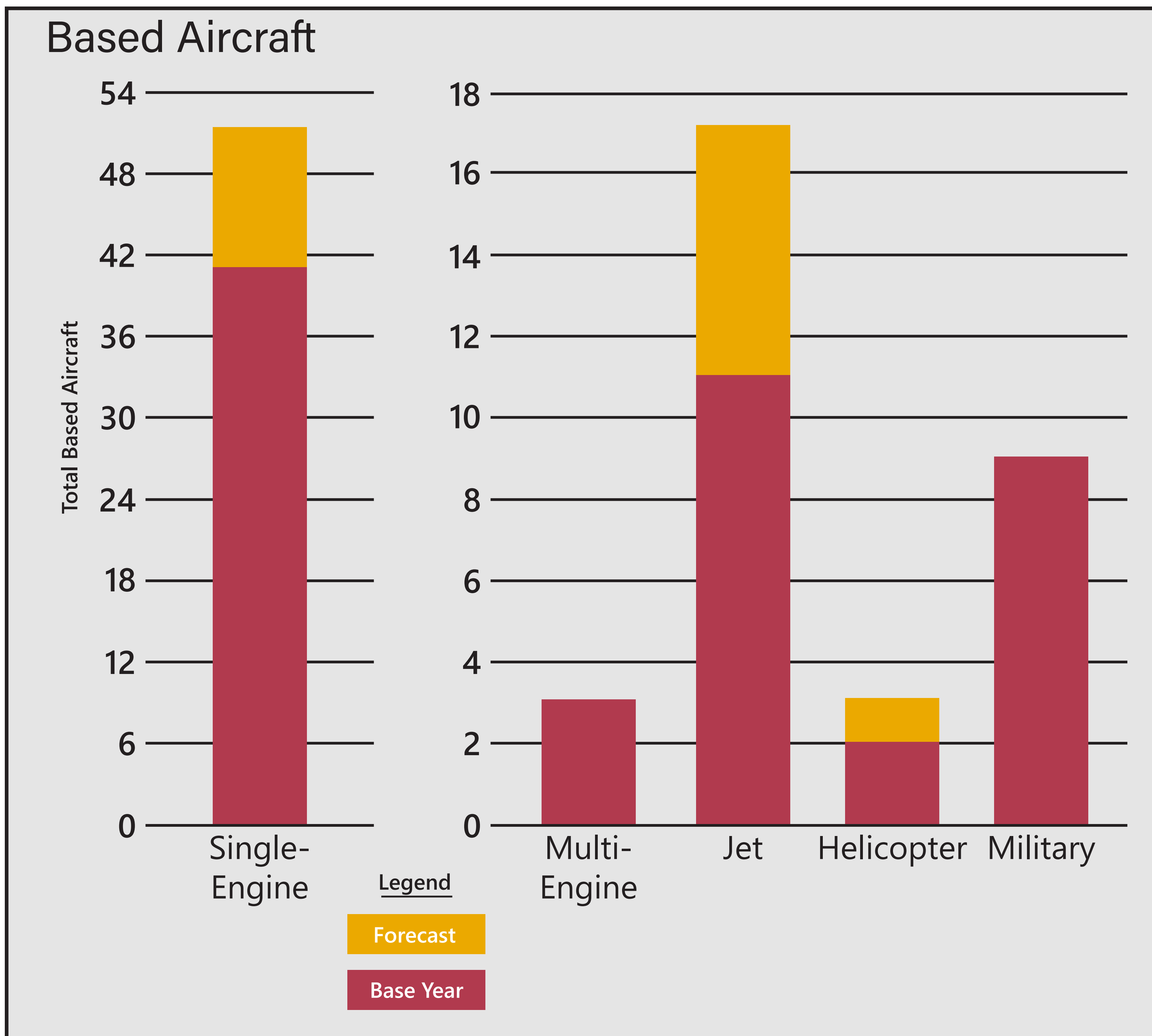


Planning at SUX defines levels of activity (PALs) triggering facility improvements rather than specific years.

This helps ensure the plan is flexible and adaptable to accommodate ever-changing circumstances.



AVIATION DEMAND FORECAST



Civil Critical Aircraft

Existing:
CRJ-200 (D-II-1B)



Future:
ERJ-175 (C-III-3)



Military Critical Aircraft

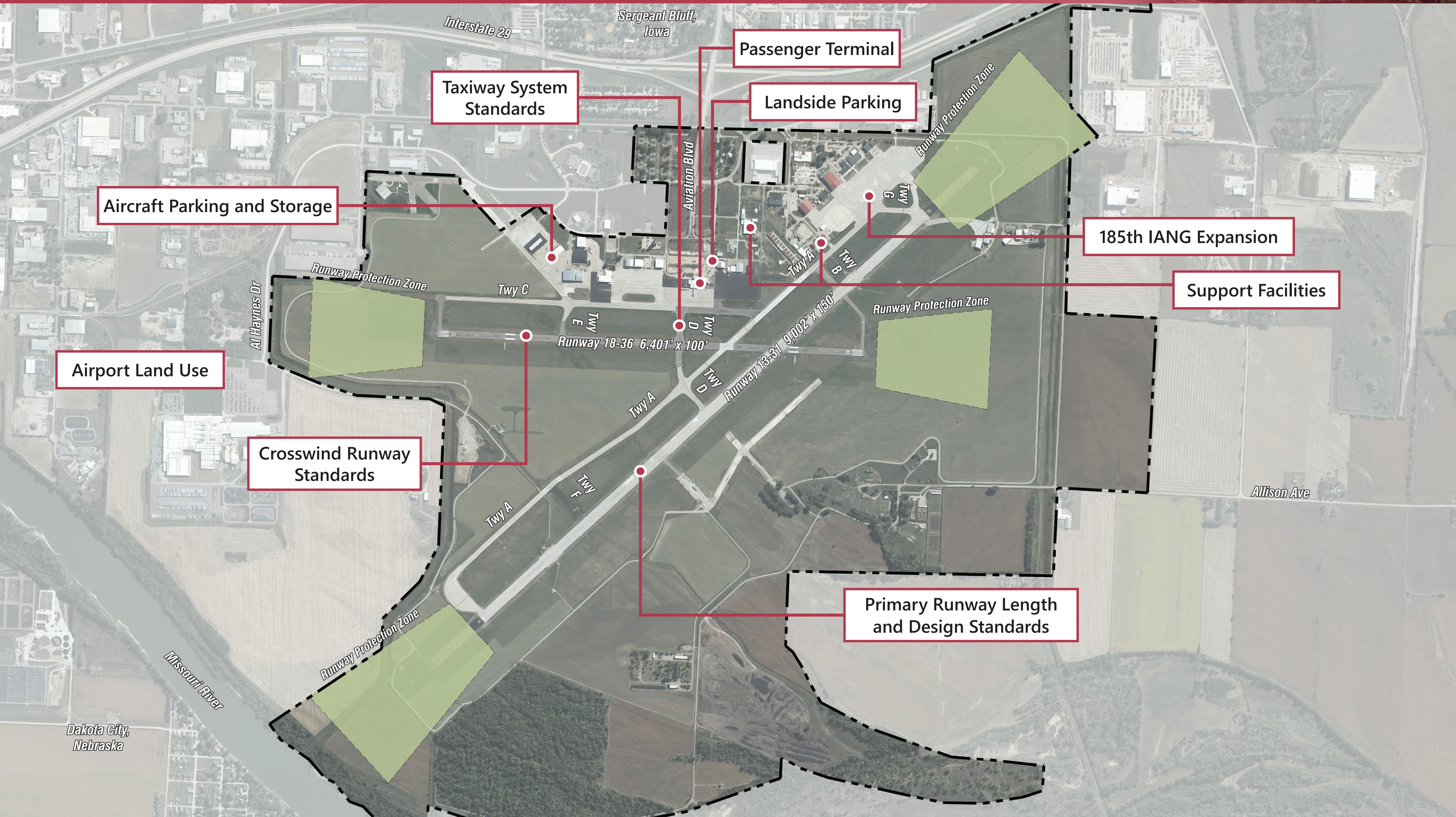
Existing:
KC-135 (C-IV-4)



Future:
KC-46 (C-IV-5)



FACILITY REQUIREMENTS



Aircraft Parking and Storage

Taxiway System Standards

Passenger Terminal

Landside Parking

185th IANG Expansion

Support Facilities

Airport Land Use

Crosswind Runway Standards

Primary Runway Length and Design Standards

Dakota City, Nebraska

Interstate 29
Sergeant Bluff, Iowa

Al Haynes Dr

Aviation Blvd

Allison Ave

Missouri River

Runway Protection Zone

Twy C

Twy E

Twy D

Twy A

Twy F

Twy D

Twy A

Twy B

Twy G

Runway 18-36 6,401' x 100'

Runway 13-31 9,002' x 150'

Runway Protection Zone

Runway Protection Zone

Runway Protection Zone

FACILITY REQUIREMENTS



Civil Needs

	<u>PAL 1</u>	<u>PAL 2</u>	<u>PAL 3</u>
Enplanements	29,644	31,426	35,317
Operations	31,381	32,076	33,784
Based Aircraft	76	78	83
<u>Airfield</u>			
Runway Length	Green	Yellow	Yellow
Design Standards	Green	Yellow	Yellow
Taxiways	Yellow	Yellow	Yellow
<u>Airspace and NAVAIDS</u>			
NAVAIDS	Green	Green	Green
Wind Cone and Segmented Circle	Yellow	Yellow	Yellow
<u>Passenger Terminal</u>			
Terminal Building	Green	Yellow	Red
Terminal Apron	Green	Yellow	Yellow
Terminal Landside Parking	Green	Green	Green
<u>Support Facilities</u>			
Aircraft Maintenance	Green	Yellow	Yellow
ARFF	Red	Red	Red
Electrical Vault	Green	Green	Yellow
Fuel Farm	Green	Green	Green
Maintenance/SRE	Red	Red	Red
<u>Aircraft Parking</u>	Green	Green	Green
<u>Aircraft Storage</u>	Green	Green	Green

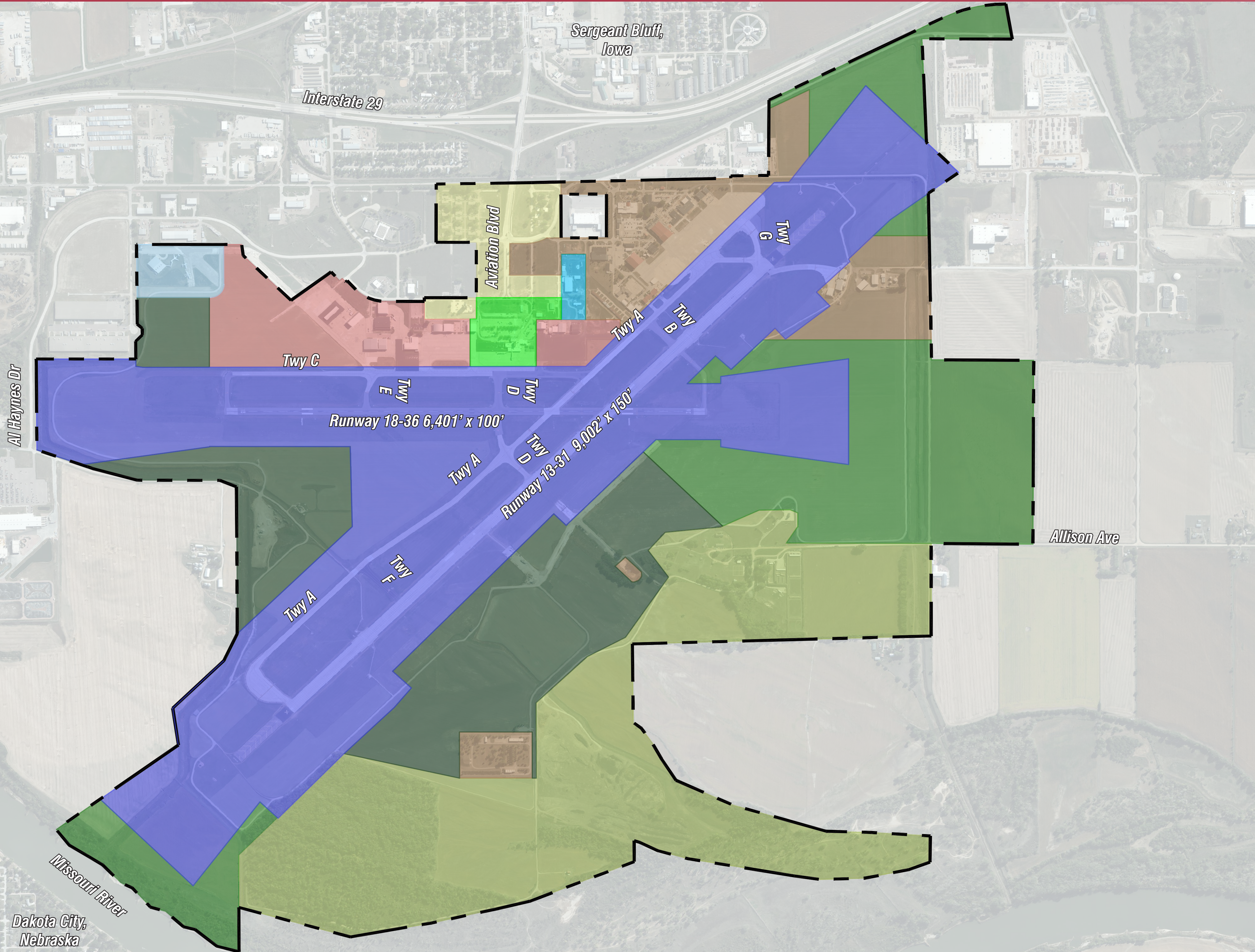
Military Needs

	<u>PAL 1</u>	<u>PAL 2</u>	<u>PAL 3</u>
Enplanements	29,644	31,426	35,317
Operations	31,381	32,076	33,784
Based Aircraft	76	78	83
<u>Airfield</u>			
Runway Length	Red	Red	Red
Design Standards	Red	Red	Red
Taxiways	Yellow	Yellow	Yellow
<u>Airspace and NAVAIDS</u>			
NAVAIDS	Green	Green	Green
Wind Cone and Segmented Circle	Grey	N/A	Grey
<u>Passenger Terminal</u>			
Terminal Building	Grey	N/A	Grey
Terminal Apron	Grey	N/A	Grey
Terminal Landside Parking	Grey	N/A	Grey
<u>Support Facilities</u>			
Aircraft Maintenance	Grey	N/A	Grey
ARFF	Red	Red	Red
Electrical Vault	Grey	N/A	Grey
Fuel Farm	Grey	N/A	Grey
Maintenance/SRE	Grey	N/A	Grey
<u>Aircraft Parking</u>	Grey	N/A	Grey
<u>Aircraft Storage</u>	Grey	N/A	Grey

AIRPORT LAND USE



The property area of Sioux Gateway Airport includes a total of approximately 2,200 acres, much of which is undeveloped. Existing land uses around the Airport generally include industrial to the north, agricultural and the Missouri River to the west, agricultural and industrial to the south, and residential to the east.



----- Existing Airport Property Line

Land Use Categories

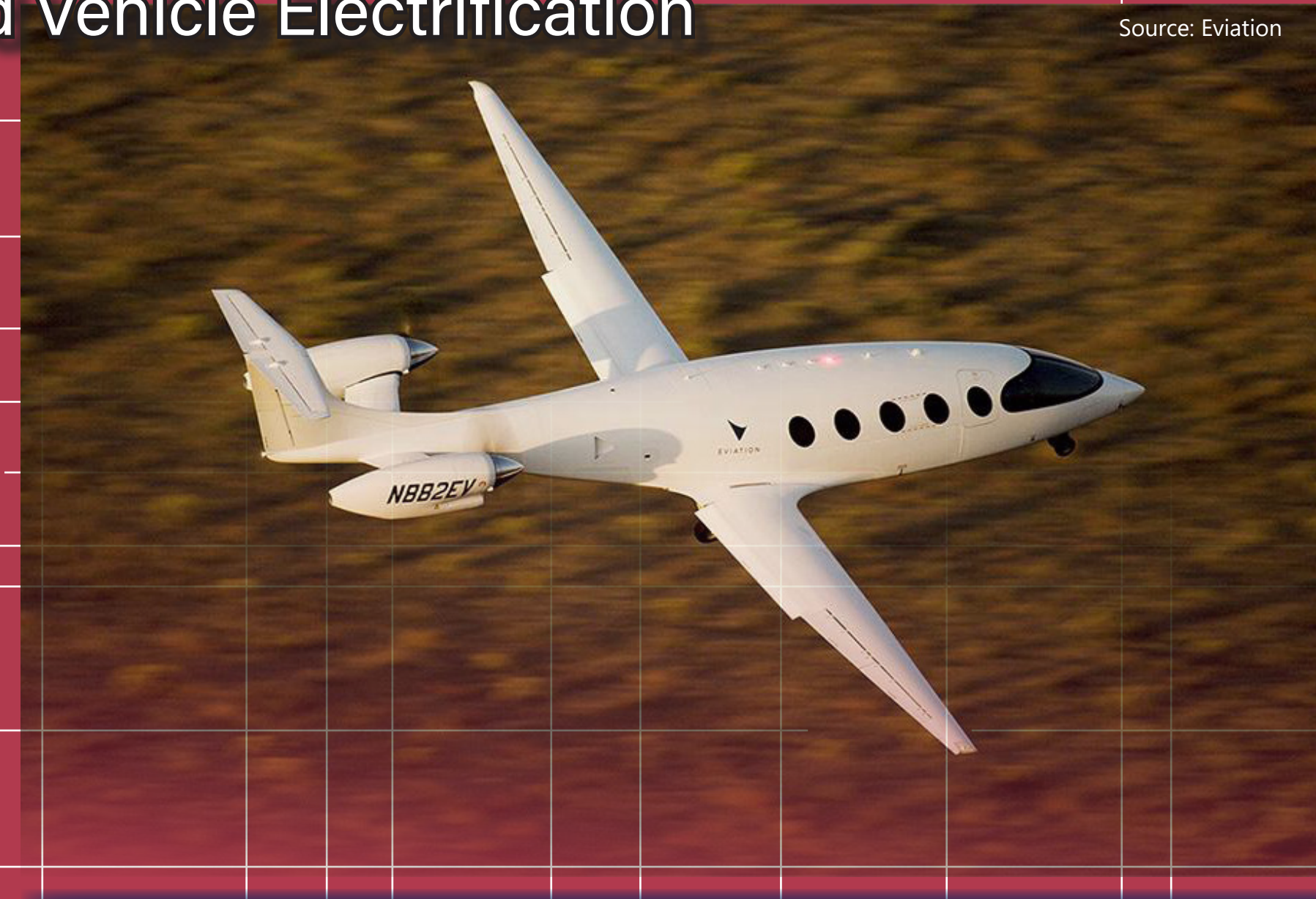
- Airport Operations Area
- Revenue Support (Aeronautical)
- Revenue Support (Non-Aeronautical)
- Military
- Agriculture/Open Space
- Park/Recreation/Institutional
- General Aviation
- Commercial Airline
- Airport Support
- Mixed Use

FUTURE AVIATION TRENDS

Aircraft and Vehicle Electrification



Sustainable Aviation Fuels (SAF)



Urban Air Mobility (UAM)



Electric Vertical Takeoff and Landing (eVTOL)



Sustainable Microgrids and Clean Energy

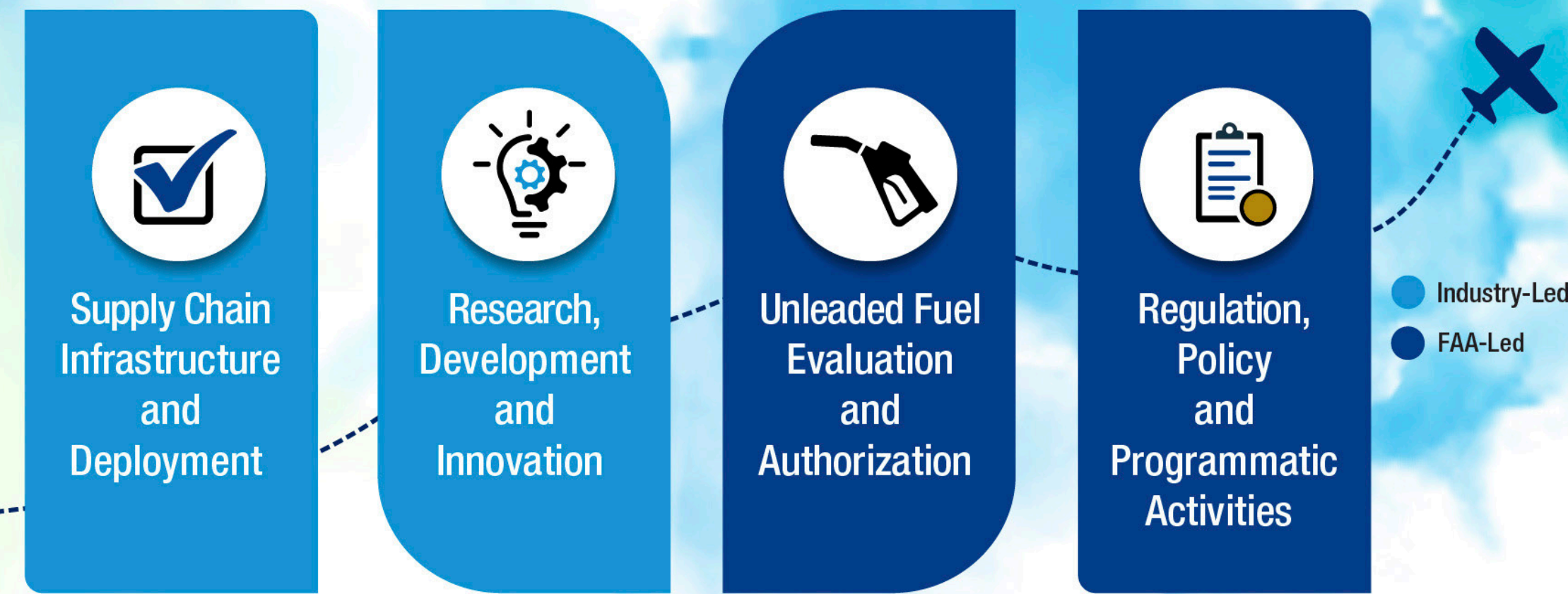


Autonomous Aircraft and Vehicles

A Path to a Lead-Free Aviation System

Source: Federal Aviation Administration

AvGas Lead Elimination



Eliminate Aviation Gasoline Lead Emissions (EAGLE)

Scan to learn more about how FAA is partnering with the aviation community to safely eliminate leaded aviation fuels in piston-engine aircraft by the end of 2030.



Advanced Air Mobility (AAM)

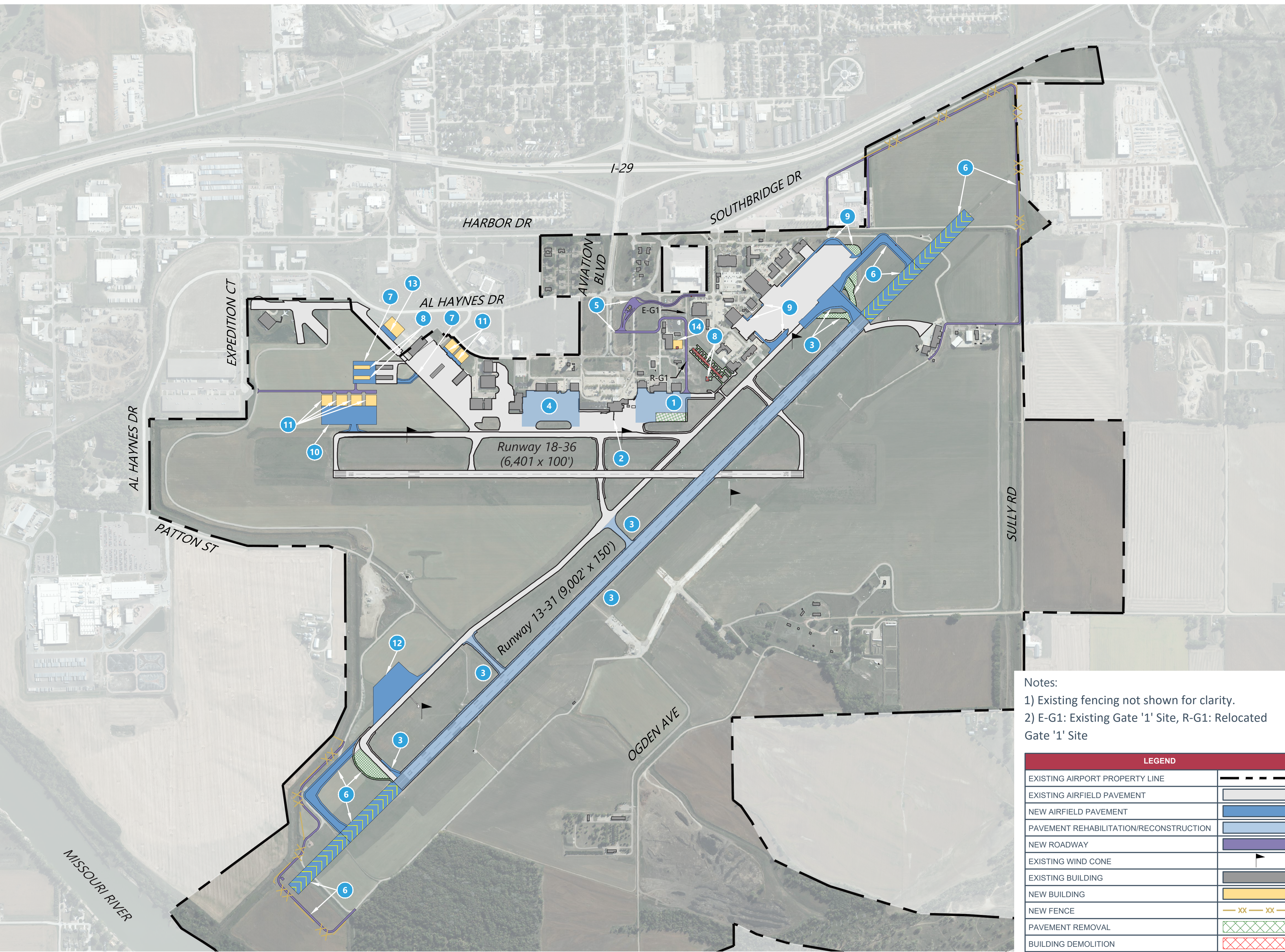


NEAR-TERM PROJECTS

Sioux Gateway Airport / Brigadier General Bud Day Field Development Phasing Plan

NEAR-TERM PROJECTS (2025-2029)

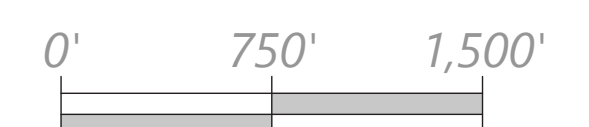
- 1 South General Aviation Apron Reconstruction
- 2 Passenger Boarding Bridge Replacement
- 3 Runway 13-31 Reconstruction (Siouxland Nexus Ph. A)
- 4 North General Aviation Apron Rehabilitation
- 5 Gate '1'/IANG Entry Control Point Relocation
- 6 Runway 13-31 Extension (Siouxland Nexus Ph. B)
- 7 T-Hangar Apron/Taxilane Expansion (Ph. I)
- 8 T-Hangar Development (Ph. I)
- 9 IANG Apron Reconstruction (Siouxland Nexus Ph. C)
- 10 Conventional Hangar Apron/Taxilane (Ph. I)
- 11 Conventional Hangar Development (Ph. I)
- 12 Warm-Up/Holding Pad (Siouxland Nexus (Ph. D)
- 13 Aircraft Maintenance Hangar
- 14 Maintenance/SRE Building Expansion (Ph. I)



Notes:

- 1) Existing fencing not shown for clarity.
- 2) E-G1: Existing Gate '1' Site, R-G1: Relocated Gate '1' Site

LEGEND	
EXISTING AIRPORT PROPERTY LINE	---
EXISTING AIRFIELD PAVEMENT	Light Gray
NEW AIRFIELD PAVEMENT	Blue
PAVEMENT REHABILITATION/RECONSTRUCTION	Light Blue
NEW ROADWAY	Dark Blue
EXISTING WIND CONE	Black Arrow
EXISTING BUILDING	Dark Gray
NEW BUILDING	Yellow
NEW FENCE	XX XX
PAVEMENT REMOVAL	Green X's
BUILDING DEMOLITION	Red X's



MID-TERM PROJECTS

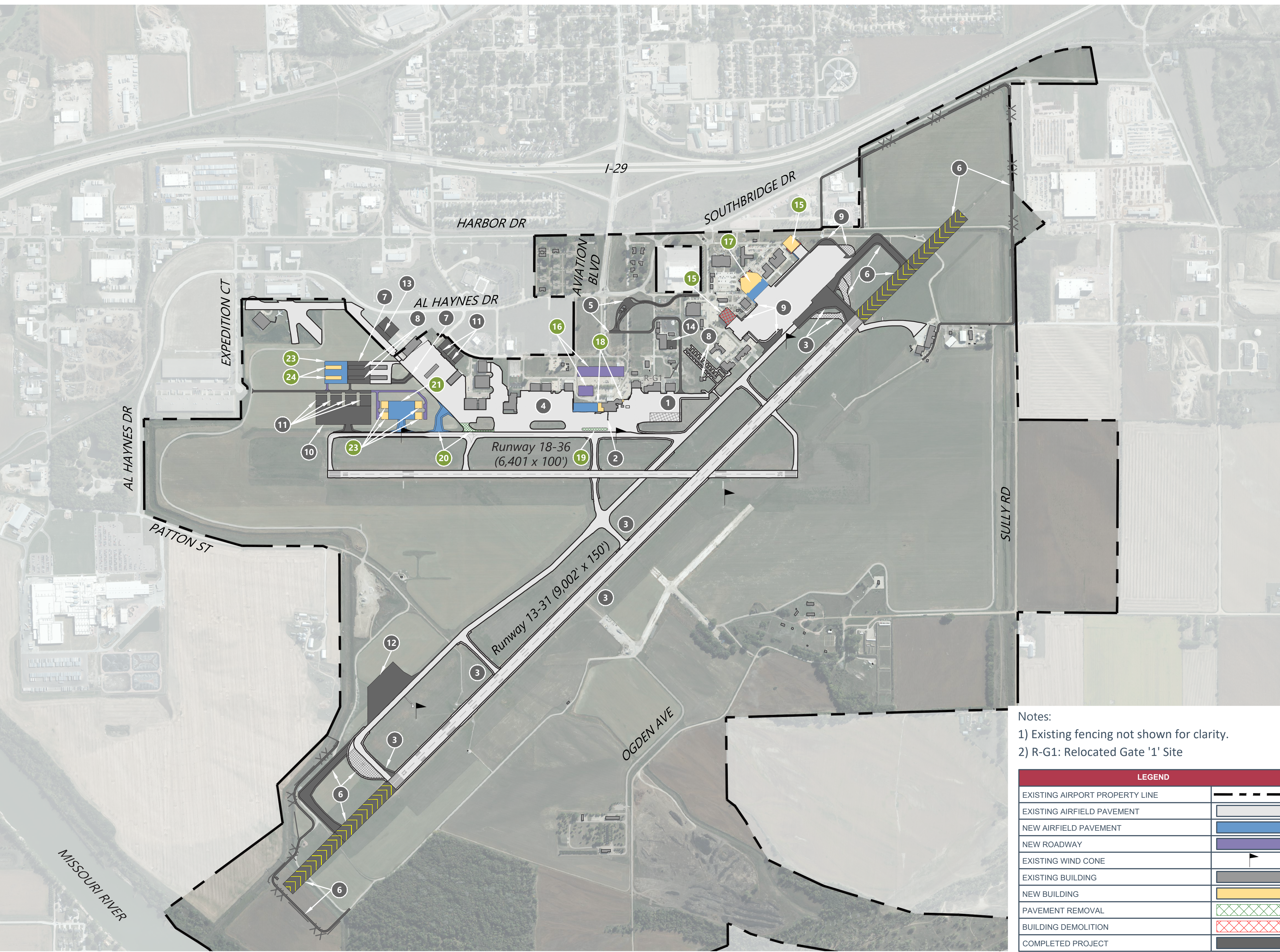
Sioux Gateway Airport / Brigadier General Bud Day Field Development Phasing Plan

NEAR-TERM PROJECTS (2025-2029)

- 1) South General Aviation Apron Reconstruction
- 2) Passenger Boarding Bridge Replacement
- 3) Runway 13-31 Reconstruction (Siouxland Nexus Ph. A)
- 4) North General Aviation Apron Rehabilitation
- 5) Gate '1'/IANG Entry Control Point Relocation
- 6) Runway 13-31 Extension (Siouxland Nexus Ph. B)
- 7) T-Hangar Apron/Taxilane Expansion (Ph. I)
- 8) T-Hangar Development (Ph. I)
- 9) IANG Apron Reconstruction (Siouxland Nexus Ph. C)
- 10) Conventional Hangar Apron/Taxilane (Ph. I)
- 11) Conventional Hangar Development (Ph. I)
- 12) Warm-Up/Holding Pad (Siouxland Nexus (Ph. D)
- 13) Aircraft Maintenance Hangar
- 14) Maintenance/SRE Building Expansion (Ph. I)

MID-TERM PROJECTS (2030-2034)

- 15) IANG Fuel Cell Hangar Relocation
- 16) Terminal Auto Parking Improvements
- 17) IANG Maintenance Hangar Relocation
- 18) Terminal Reconfiguration/Expansion
- 19) Terminal Apron Improvements
- 20) North Apron Taxiway Improvements
- 21) Conventional Hangar Apron/Taxilane (Ph. II)
- 22) Conventional Hangar Development (Ph. II)
- 23) T-Hangar Apron/Taxilane Expansion (Ph. II)
- 24) T-Hangar Development (Ph. II)



Notes:

- 1) Existing fencing not shown for clarity.
- 2) R-G1: Relocated Gate '1' Site

LEGEND	
EXISTING AIRPORT PROPERTY LINE	---
EXISTING AIRFIELD PAVEMENT	▬
NEW AIRFIELD PAVEMENT	▬
NEW ROADWAY	▬
EXISTING WIND CONE	▶
EXISTING BUILDING	■
NEW BUILDING	■
PAVEMENT REMOVAL	▨
BUILDING DEMOLITION	▨
COMPLETED PROJECT	■



0' 750' 1,500'

LONG-TERM PROJECTS

Sioux Gateway Airport / Brigadier General Bud Day Field Development Phasing Plan

NEAR-TERM PROJECTS (2025-2029)

- 1 South General Aviation Apron Reconstruction
- 2 Passenger Boarding Bridge Replacement
- 3 Runway 13-31 Reconstruction (Siouxland Nexus Ph. A)
- 4 North General Aviation Apron Rehabilitation
- 5 Gate '1'/IANG Entry Control Point Relocation
- 6 Runway 13-31 Extension (Siouxland Nexus Ph. B)
- 7 T-Hangar Apron/Taxilane Expansion (Ph. I)
- 8 T-Hangar Development (Ph. I)
- 9 IANG Apron Reconstruction (Siouxland Nexus Ph. C)
- 10 Conventional Hangar Apron/Taxilane (Ph. I)
- 11 Conventional Hangar Development (Ph. I)
- 12 Warm-Up/Holding Pad (Siouxland Nexus (Ph. D)
- 13 Aircraft Maintenance Hangar
- 14 Maintenance/SRE Building Expansion (Ph. I)

MID-TERM PROJECTS (2030-2034)

- 15 IANG Fuel Cell Hangar Relocation
- 16 Terminal Auto Parking Improvements
- 17 IANG Maintenance Hangar Relocation
- 18 Terminal Reconfiguration/Expansion
- 19 Terminal Apron Improvements
- 20 North Apron Taxiway Improvements
- 21 Conventional Hangar Apron/Taxilane (Ph. II)
- 22 Conventional Hangar Development (Ph. II)
- 23 T-Hangar Apron/Taxilane Expansion (Ph. II)
- 24 T-Hangar Development (Ph. II)

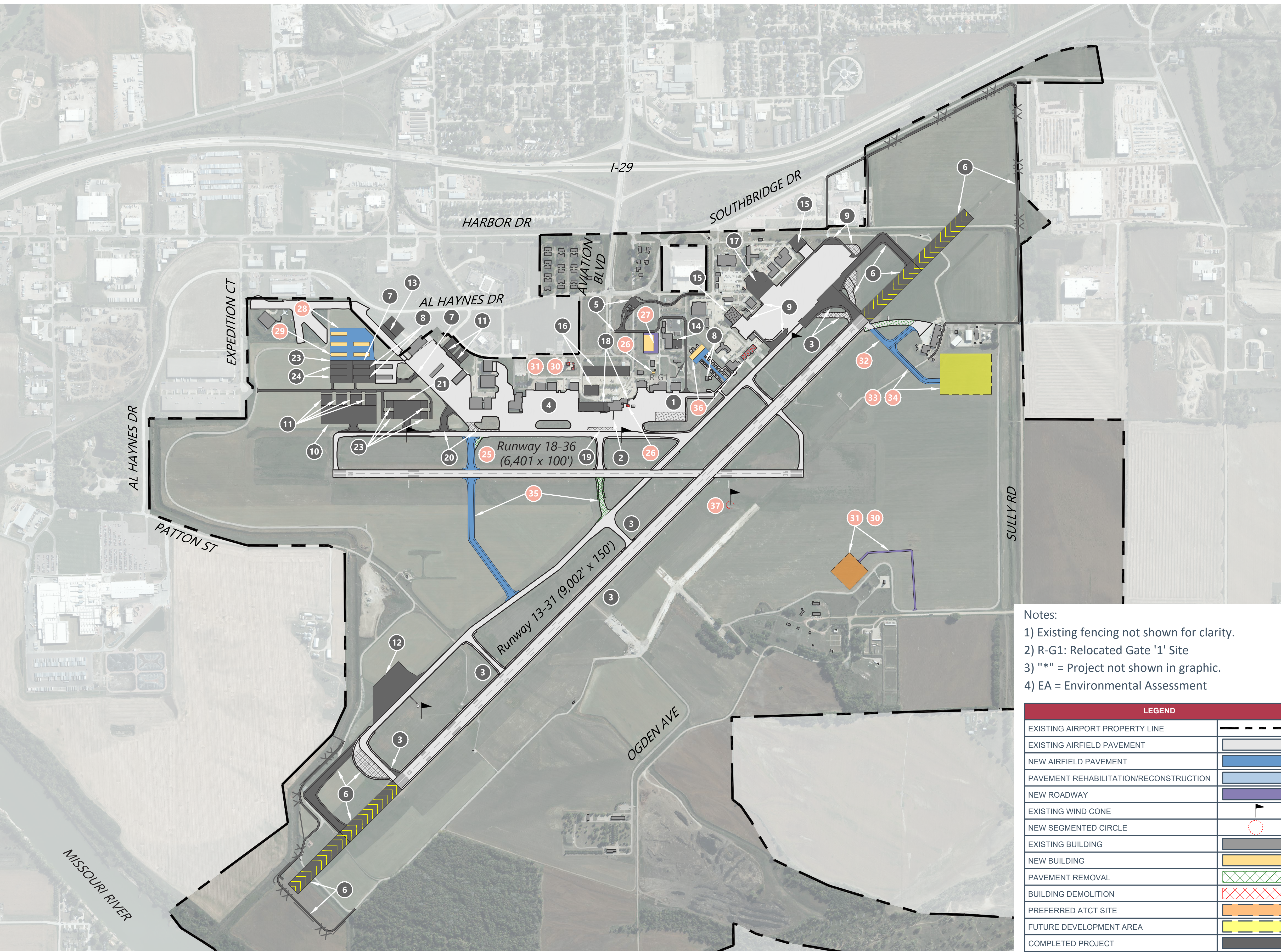
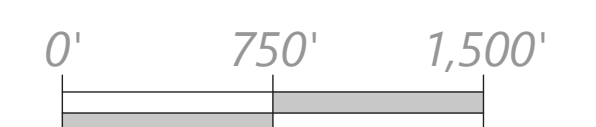
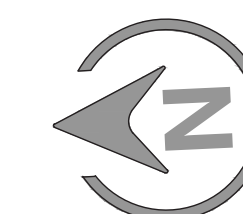
LONG-TERM PROJECTS (2035-2044)

- 25 Taxiway E Realignment
- 26 Electrical Vault Relocation
- 27 Maintenance/SRE Building Expansion (Ph. II)
- 28 T-Hangar Apron/Taxilane Expansion (Ph. III)
- 29 T-Hangar Development (Ph. III)
- 30 Airport Traffic Control Tower (ATCT) Relocation - EA
- 31 Airport Traffic Control Tower (ATCT) Relocation
- 32 Taxiway M Reconfiguration
- 33 Cargo/IANG Development - EA
- 34 Cargo/IANG Development
- 35 Taxiway D Relocation
- 36 Aircraft Rescue and Fire Fighting (ARFF) Relocation
- 37 Segmented Circle
- 38 Master Plan Update*

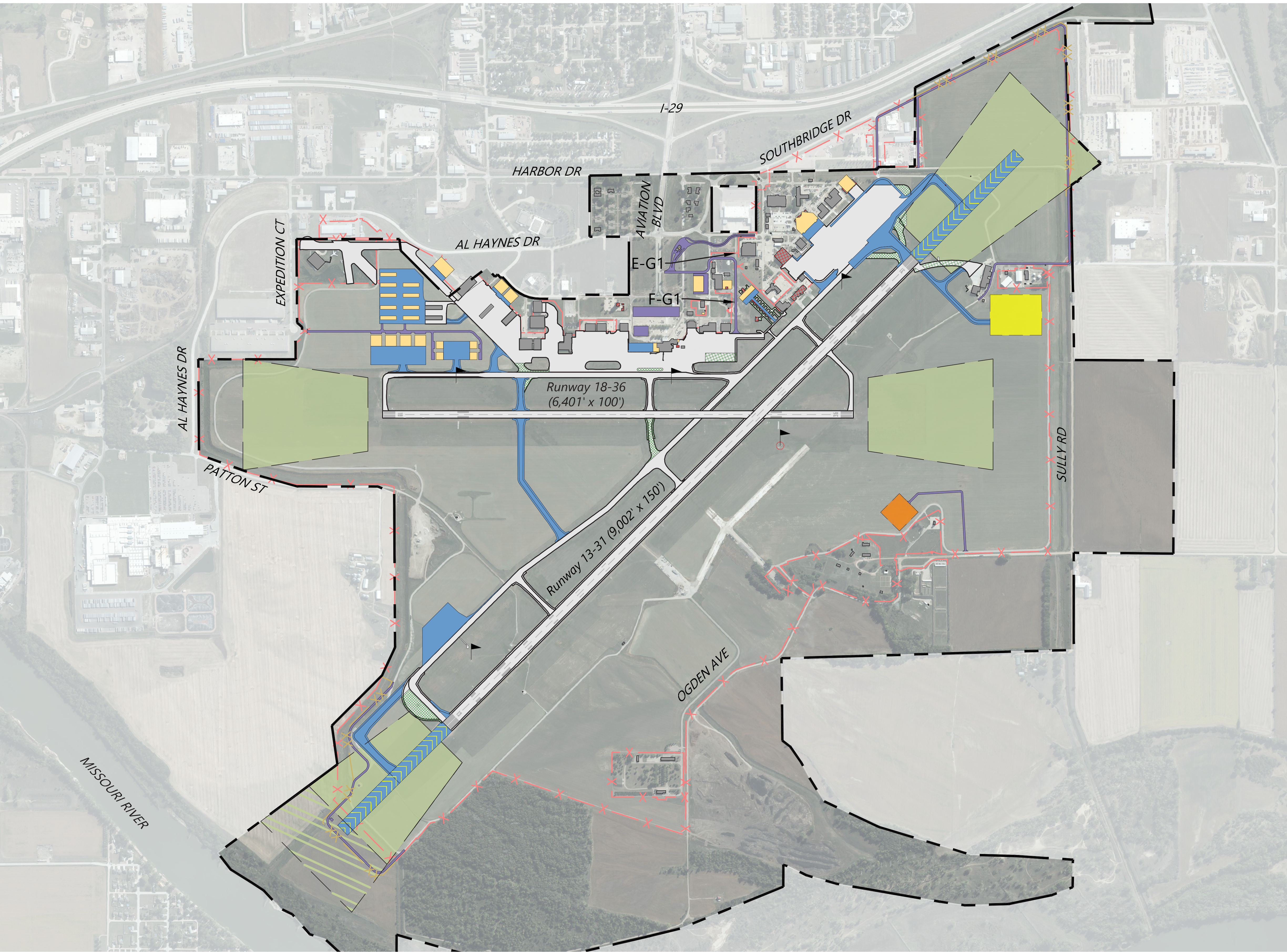
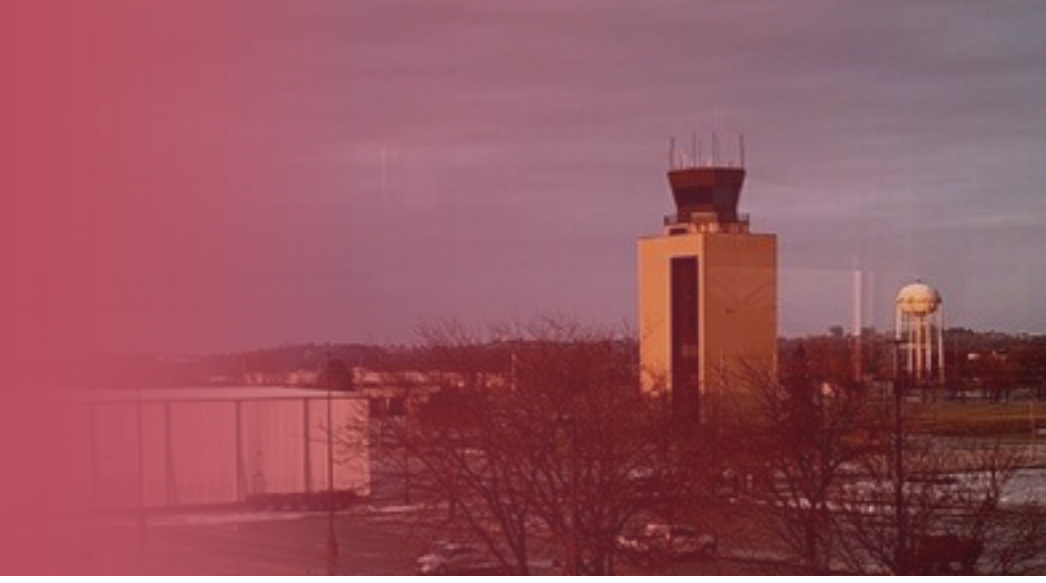
Notes:

- 1) Existing fencing not shown for clarity.
- 2) R-G1: Relocated Gate '1' Site
- 3) "*" = Project not shown in graphic.
- 4) EA = Environmental Assessment

















LEGEND	
EXISTING AIRPORT PROPERTY LINE	---
EXISTING AIRFIELD PAVEMENT	▬
NEW AIRFIELD PAVEMENT	▬
PAVEMENT REHABILITATION/RECONSTRUCTION	▬
NEW ROADWAY	▬
EXISTING WIND CONE	▲
NEW SEGMENTED CIRCLE	○
EXISTING BUILDING	■
NEW BUILDING	■
PAVEMENT REMOVAL	▨
BUILDING DEMOLITION	▨
PREFERRED ATCT SITE	■
FUTURE DEVELOPMENT AREA	■
COMPLETED PROJECT	■



PREFERRED DEVELOPMENT PLAN

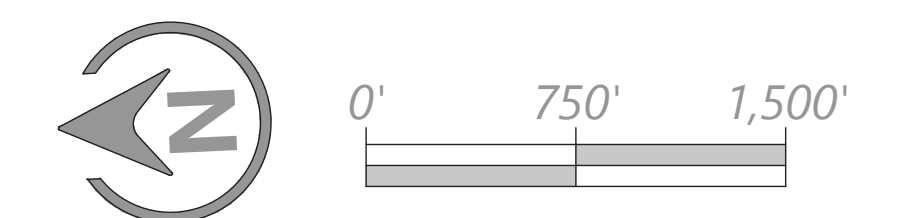


Sioux Gateway Airport / Brigadier General Bud Day Field Preferred Development Plan

-  Existing Airport Property Line
-  Existing Airfield Pavement
-  Existing Building
-  Existing Perimeter Fence
-  Existing Wind Cone
-  Existing RPZ
-  Future Airfield Pavement
-  Future Pavement Demolition
-  Future Building Demolition
-  Future Building
-  Future Segmented Circle
-  Future Roadway / Auto Parking
-  Future Perimeter Fence
-  Future ATCT Site*
-  Future Development Area
-  Future RPZ

Note
 "****": Further study required to identify precise location that meets the siting criteria outlined in FAA Order 6480.4A, *Airport Traffic Control Tower Siting Process*.

Abbreviations
 E-G1: Existing Gate '1' Site
 F-G1: Future Gate '1' Site
 ATCT: Airport Traffic Control Tower
 RPZ: Runway Protection Zone



TERMINAL AREA PLAN

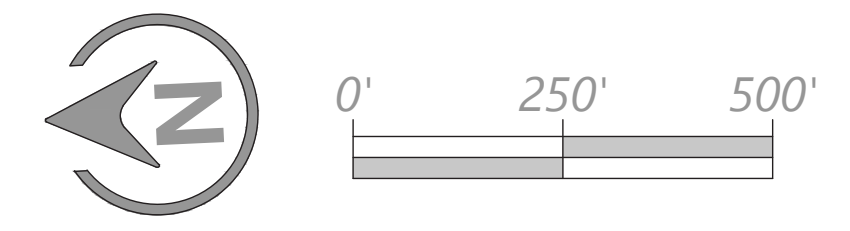
Sioux Gateway Airport / Brigadier General Bud Day Field Terminal Area Plan



- Existing Airport Property Line
- Existing Airfield Pavement
- Existing Building
- Existing Perimeter Fence
- Existing Wind Cone
- Future Airfield Pavement
- Future Pavement Demolition
- Future Building Demolition
- Future Building
- Future Roadway / Auto Parking

Abbreviations

E-G1: Existing Gate '1' Site
 F-G1: Future Gate '1' Site

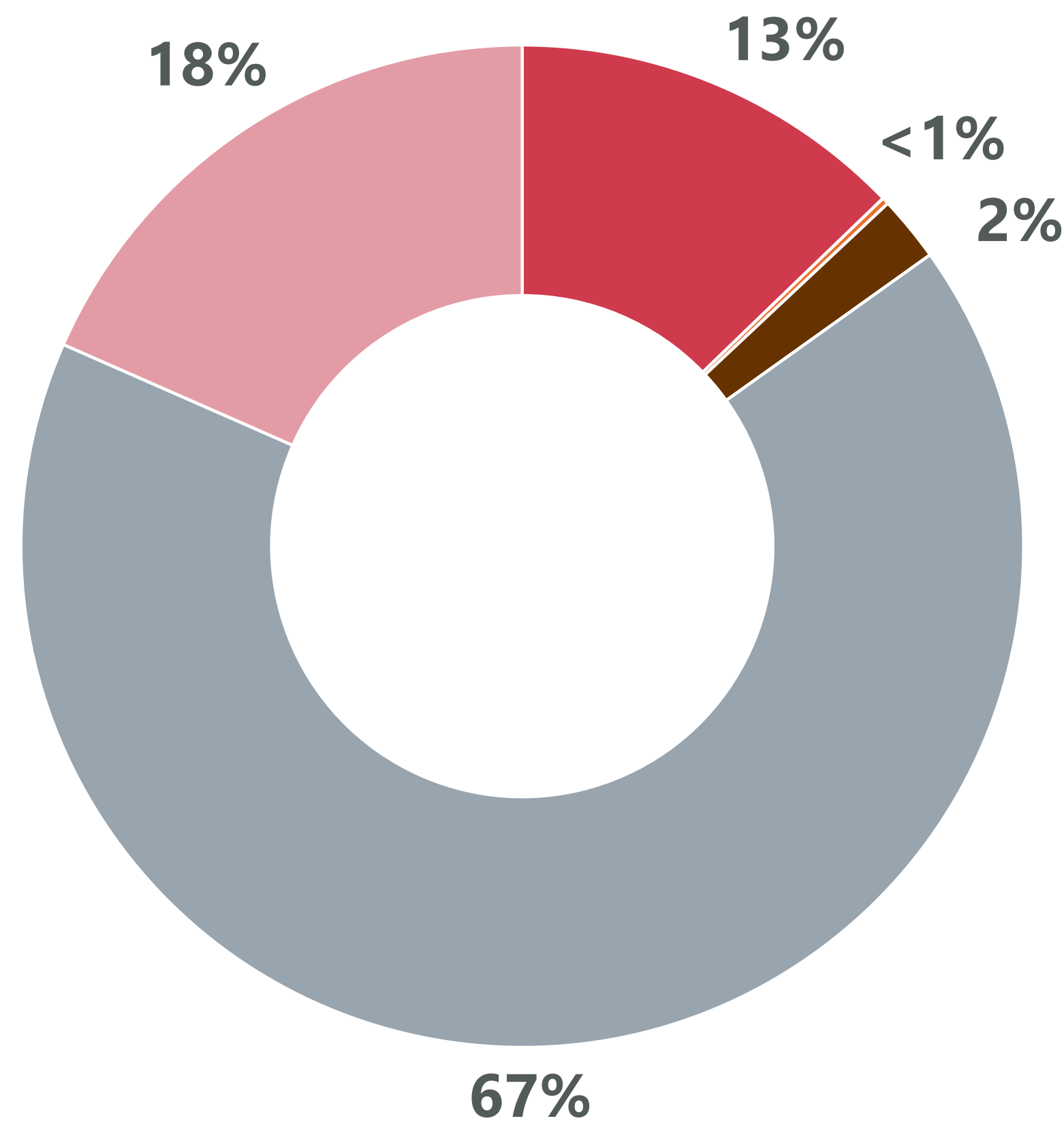


INVESTING IN THE FUTURE

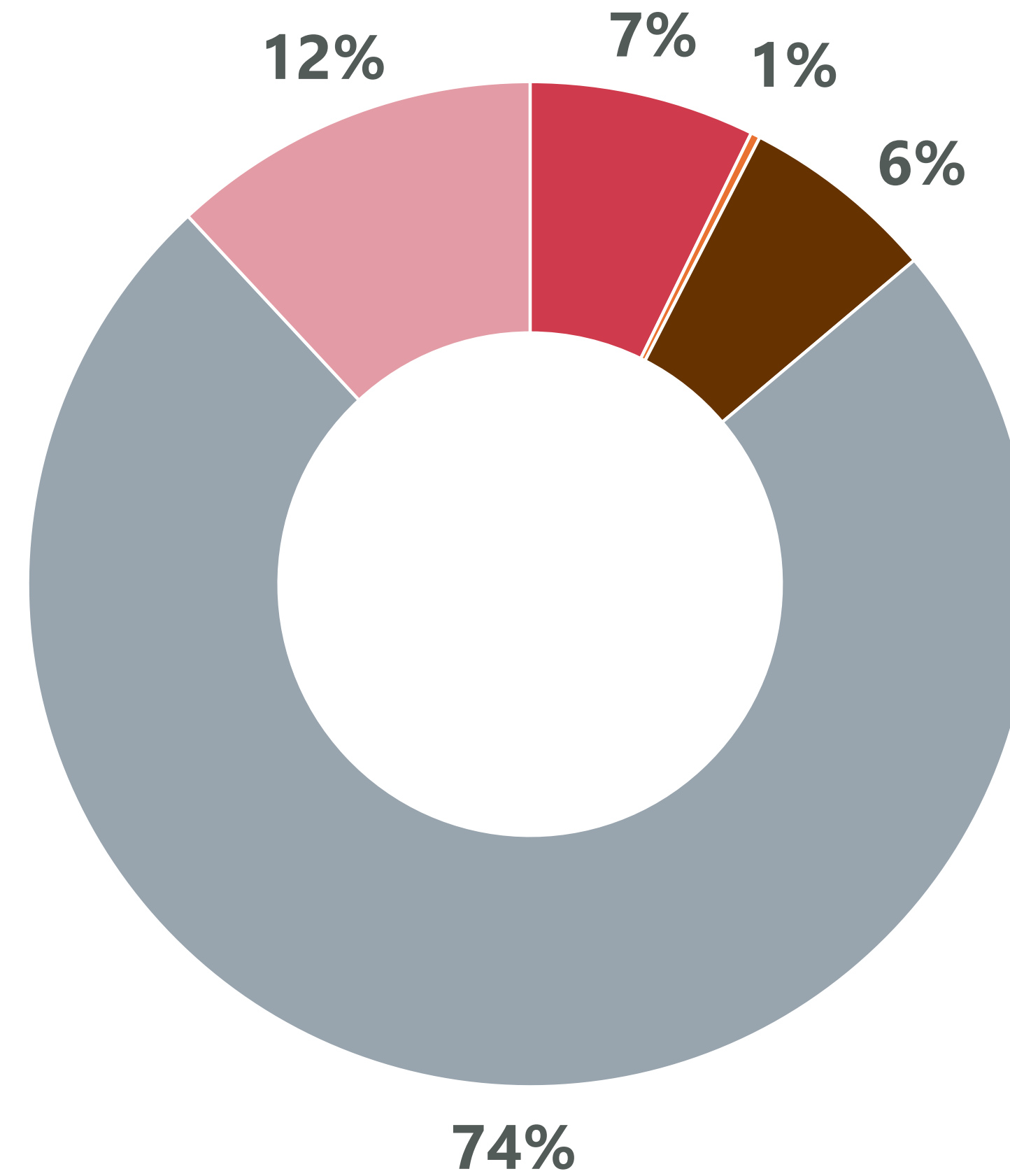


Funding Breakdown By Source and Term

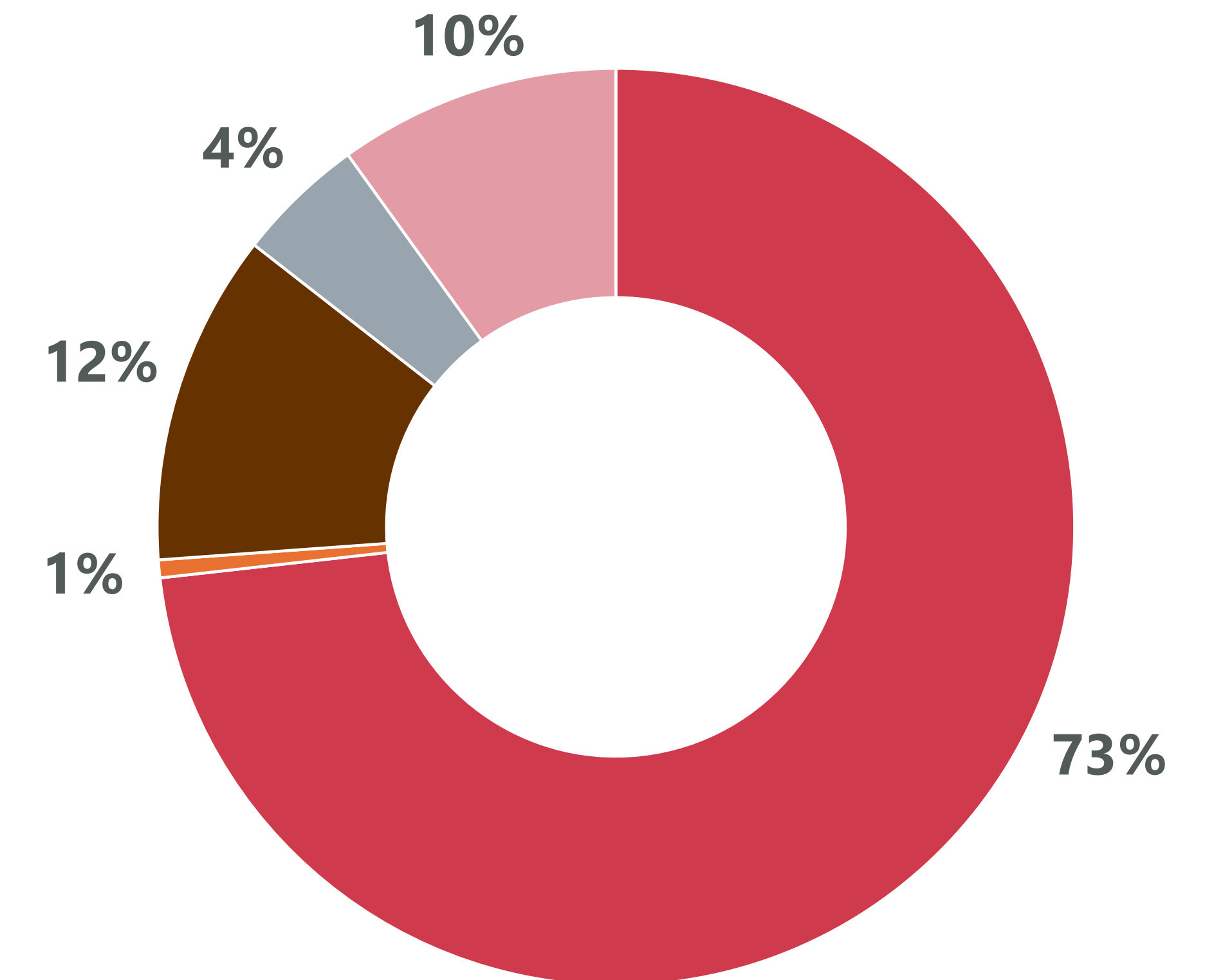
**Near-Term
(2025-2029)**



**Mid-Term
(2030-2034)**



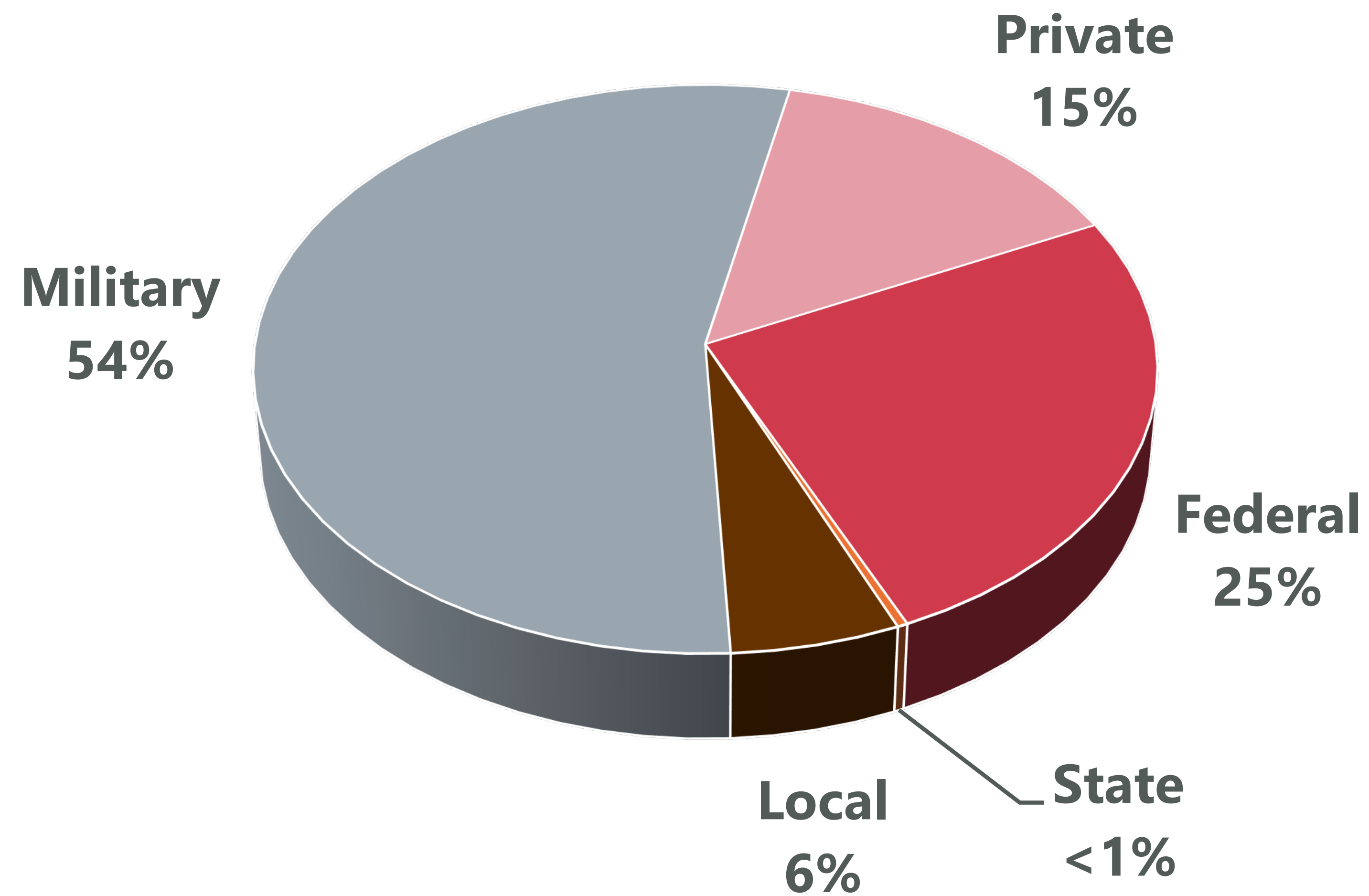
**Long-Term
(2035-2044)**



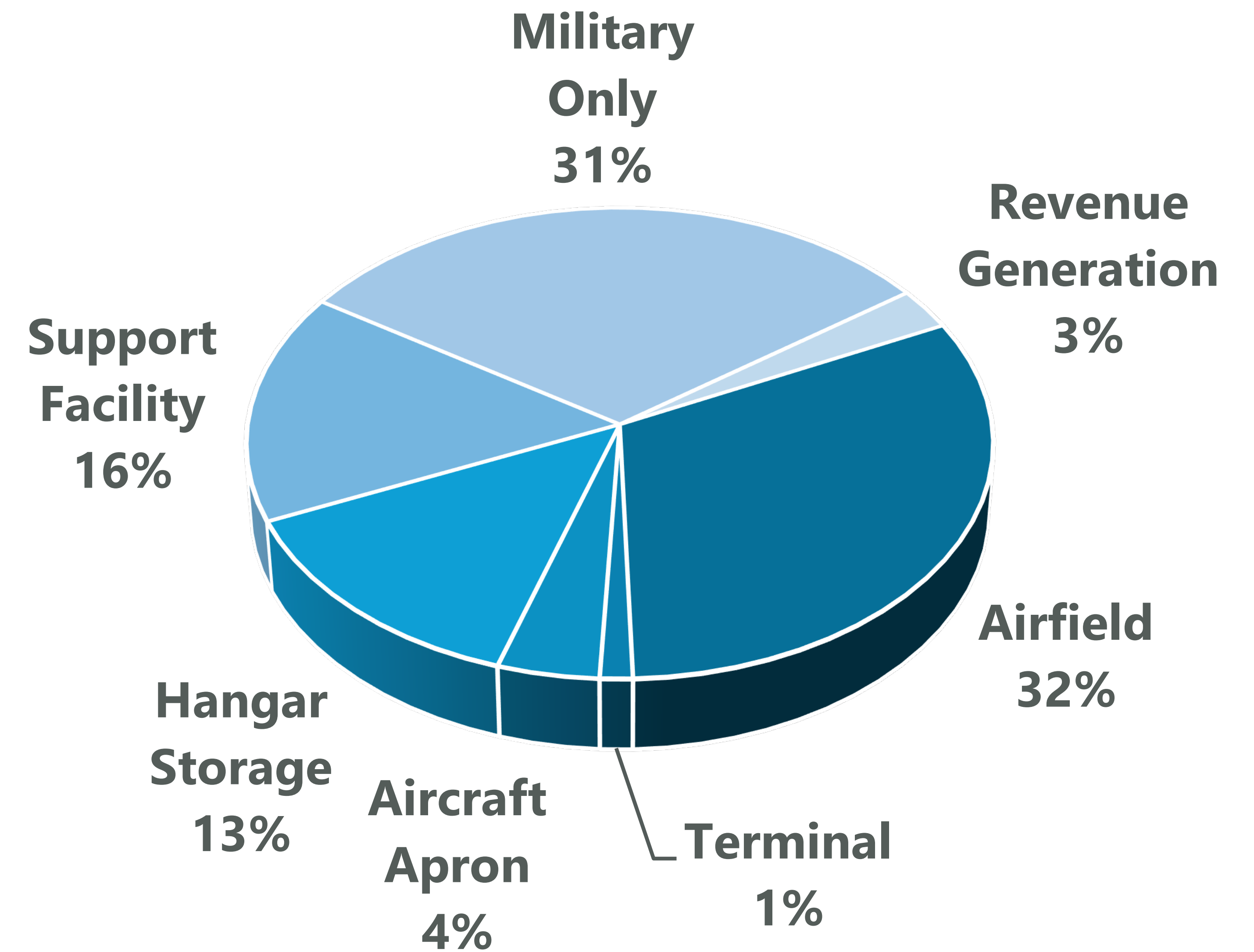
CAPITAL PROGRAM



Total Capital Program
By Funding Source

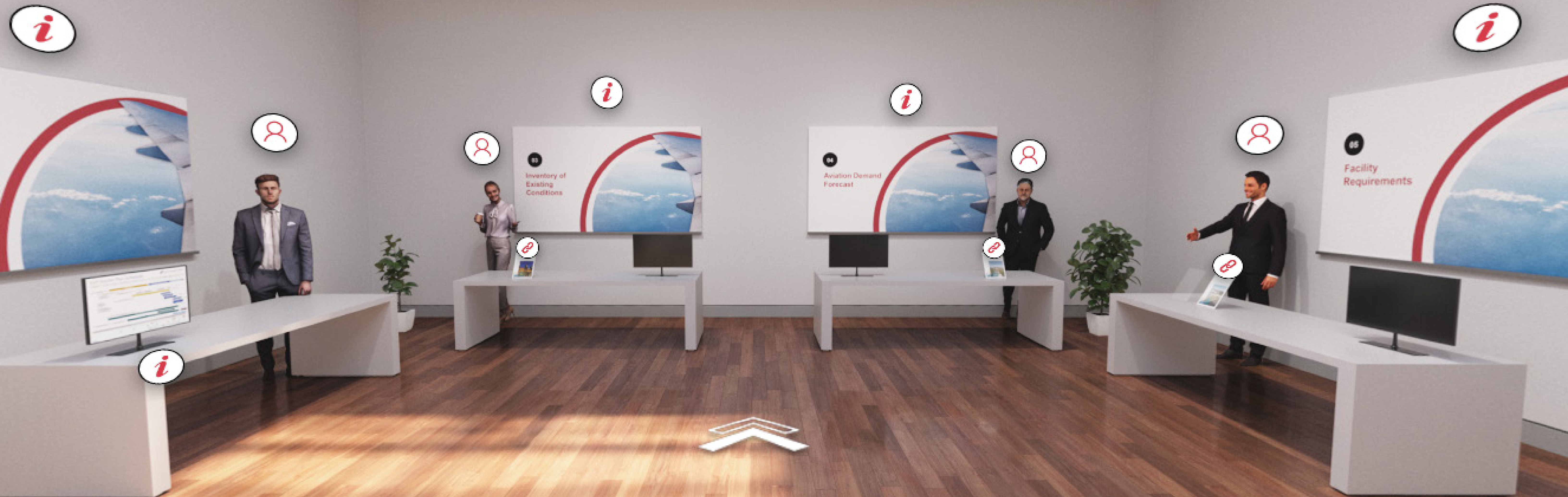


Total Capital Program
By Development Type



PUBLIC ENGAGEMENT

Do you have any concerns or comments that you would like to share? Scan the QR Code below to visit www.suxmasterplan.com.



RS&H and SUX have leveraged virtual meeting platforms and innovative information-sharing tools to create an interactive, multimedia experience for the public. You can explore the planning process and outcomes of the Sioux Gateway Airport Master Plan by scanning the QR code with your device.

