### City of Austin-Department of Aviation Austin-Bergstrom International Airport Master Plan







# ABIA 2040 Master Plan Schedule Status

**2017** 



#### **VISIONING PHASE**

Outlines overall direction and develops vision statement through data collection and public meetings.

> Set Goals & Objectives

**2017** 



#### **DRAFT PLAN**

Defines specific improvements and phases for the development of the Master Plan.

Aviation
Inventory
&
Forecast

Capacity & Analysis Requirements

**Demand** 

**2018** 



#### **FINAL PLAN**

A Final scope of work, schedule and budget will be prepared and submitted to ABIA for approval.

Alternative
Developments
&
Analysis

We Are
Here

Plan
Development
&
Implementation
Documentation

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## Public Input Overview & Survey

#### Public Meetings

- -October 12, 2017
- -April 19, 2018
- -June 7, 2018
- -September 26, 2018

#### PAC and TAC Meetings

- -June 26, 2017
- -October 19, 2017
- -April 18, 2018
- -August 28, 2018

### Survey Results and Feedback

Respondents were asked to note their level of agreement with the preferred alternative, ranging from Highly Agree (1) to Highly Disagree (5) and why

#### • 11 Question Survey open for 2.5 weeks

- ABIA Facebook and Twitter pages shared the survey link
- Letters were sent to surrounding property owners
- Yard signs were placed in nearby neighborhoods
- Signs were placed in terminal

#### 257 Respondents

- 92 Open-ended comments were collected
- Diverse user base, ranging from frequent fliers to rare users

## Survey Question Results

#### New Runway

 73.5% noted the most important factor for a new runway is its capacity to meet future demand

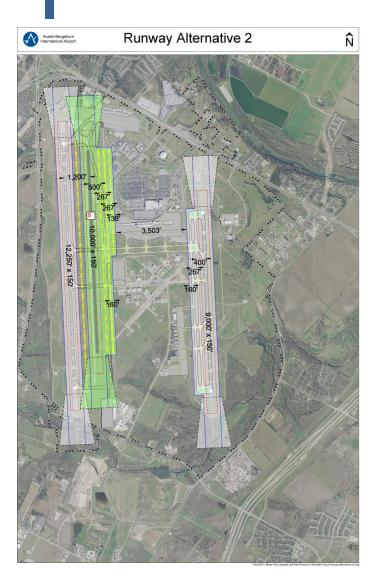
#### New Terminal

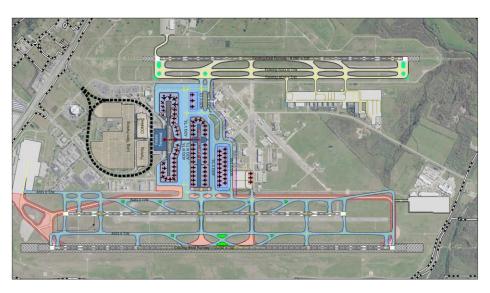
- 75% : Ability for future expansion
- 62%: Walkability and Ease of Travel

#### New Roadway Access

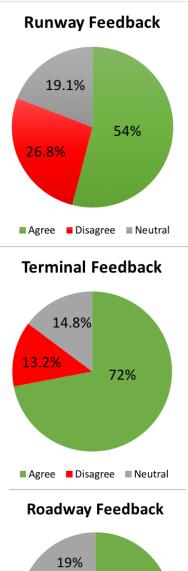
- 66.4% : Ability to meet future demand
- 45.3% : Overall constructability

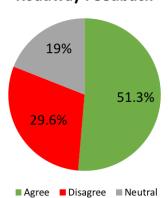
# Airport Alternatives Feedback











## **Survey Comments**

- ABIA needs a rail system that connects to downtown and surrounding areas (Round Rock, Cedar Park)
  - ABIA should be more inter-modal (adequate bike access and storage, buses, rail, etc.)
- People are concerned the roadway alternative is a shortterm fix
- Start overbuilding now for future growth
- Planners should maintain the unique Austin experience when developing new facilities
- Several comments referred to Roadway Relocation of SH 71 to the North as the preferred alternative





# Draft Construction Phasing Schedule

#### Phase 1 Development

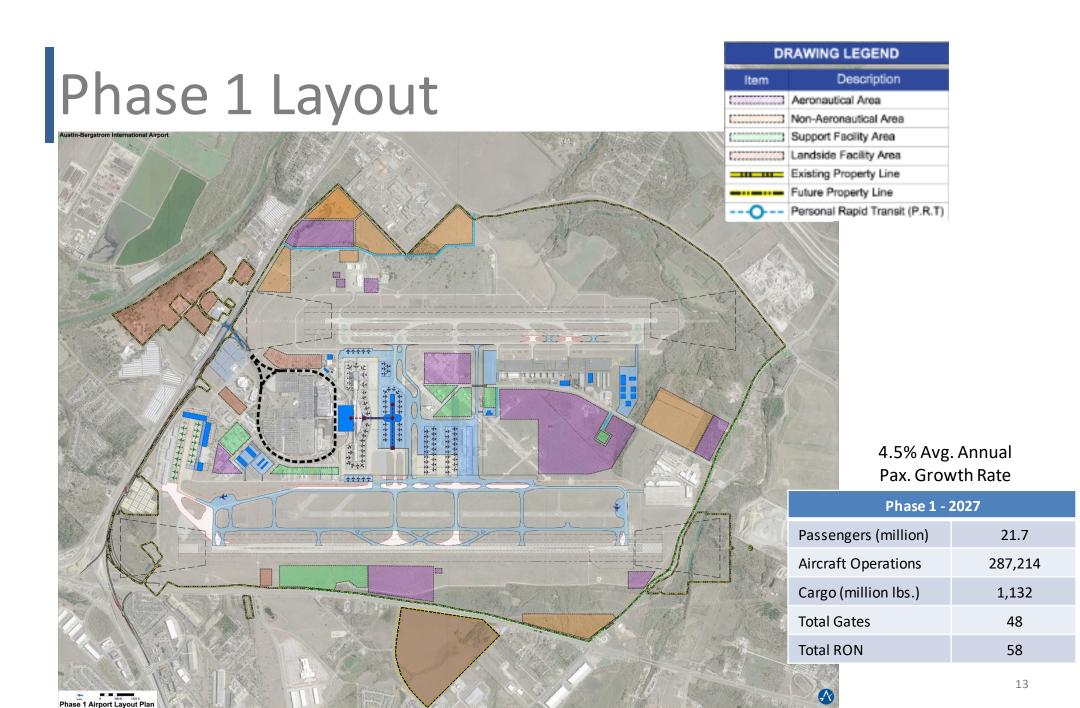
- New Taxiway "Delta"
- Barbara Jordan Terminal Upgrades
- New 20-gate Terminal/Concourse with Option for Hydrant Fueling
- New Terminal Curbs
- New Airport Roadway Network
- New Central Bag Handling System
- New Apron, Taxiways and Taxilanes
- South Maintenance/Deicing Ramp Rehab
- Central Warehouse
- Consolidated Maintenance Facility
- Utility Infrastructure Upgrades
- New Support Facilities (ARFF, GSEM, Belly Cargo, Maintenance, Catering, etc.)
- New Fuel Farm
- New Central Utility Plant

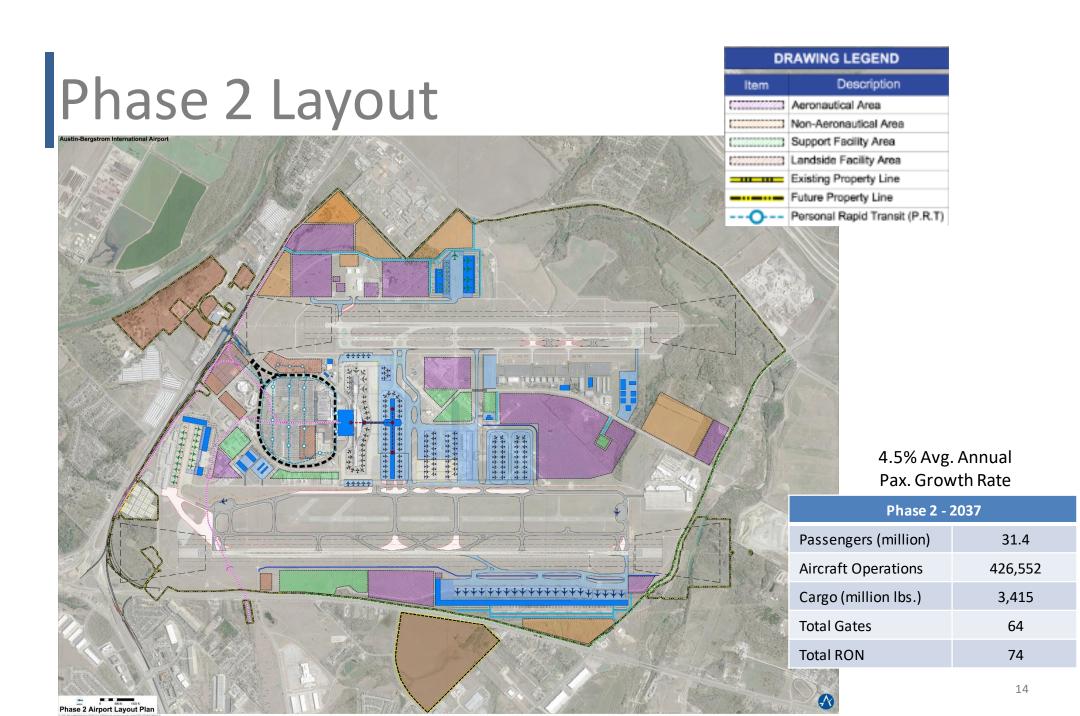
#### Phase 2 Development

- Renovations to Barbara Jordan Terminal/Ticketing
- New North and Southwest Cargo Buildings
- New 12 gate Concourse Expansion with Hydrant Fueling Option
- New Apron Taxiways and Taxilanes
- Existing Runway Upgrades
- Expansion of Support Facilities

#### Long-Term Development

- New Runway
- New Taxiways
- Relocated SH 71
- Land Acquisition





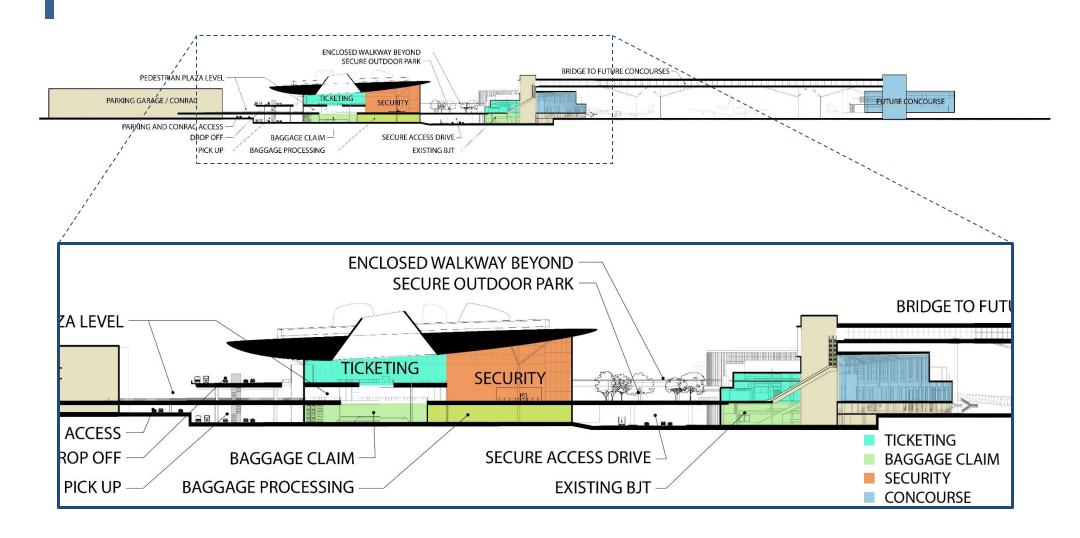
#### DRAWING LEGEND Long-Term Layout Description Aeronautical Area Non-Aeronautical Area Support Facility Area Landside Facility Area Existing Property Line Future Property Line 13 Personal Rapid Transit (P.R.T) 13 9 8 **PROJECT** 13 1. Terminal Process & Central Bag System 2. Remote 32 Gate Concourse 10 3. Remain Overnight Parking Positions 4. Airport Firefighting Station 13 11 12 5. Cargo Development 13 6. Fuel Farm 13 7. Aircraft Maintenance 12 8. Central Warehouse 9. Airport Maintenance 10. Relocated SH 71 11. General Aviation 12. Aeronautical Development Areas 16 13. Non-Aeronautical Development Areas 12 14. Support Facility Areas 13 15. New Runway 17C-35C 16. Light Rail 15

**Ultimate Airport Layout Plan** 

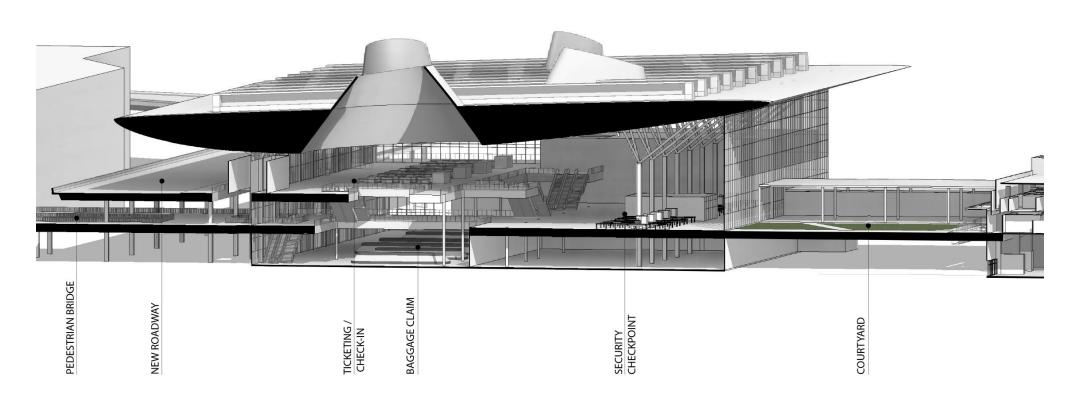




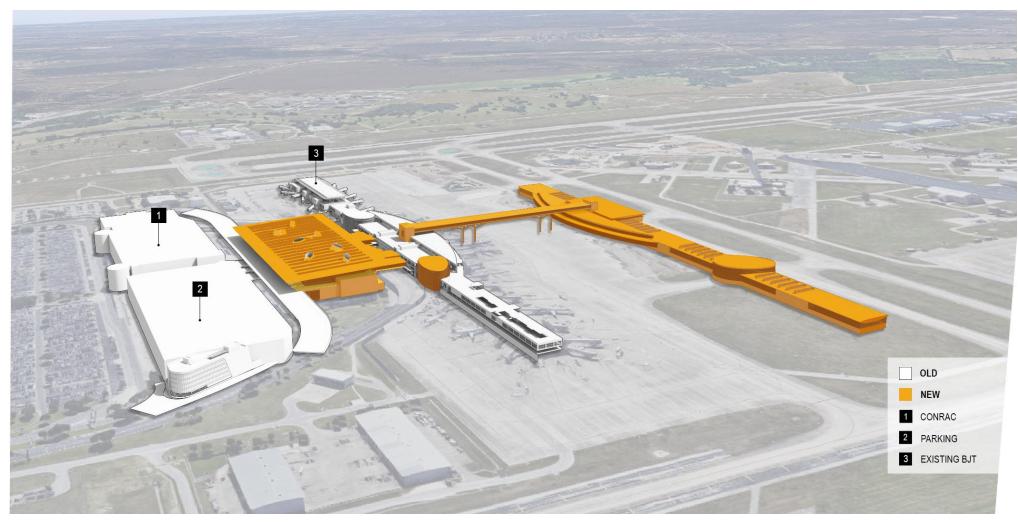
### Terminal Section Diagram



# Terminal Section Diagrams North/South Section



### Terminal / Concourse Aerial View



Terminal Concept Courtyard View







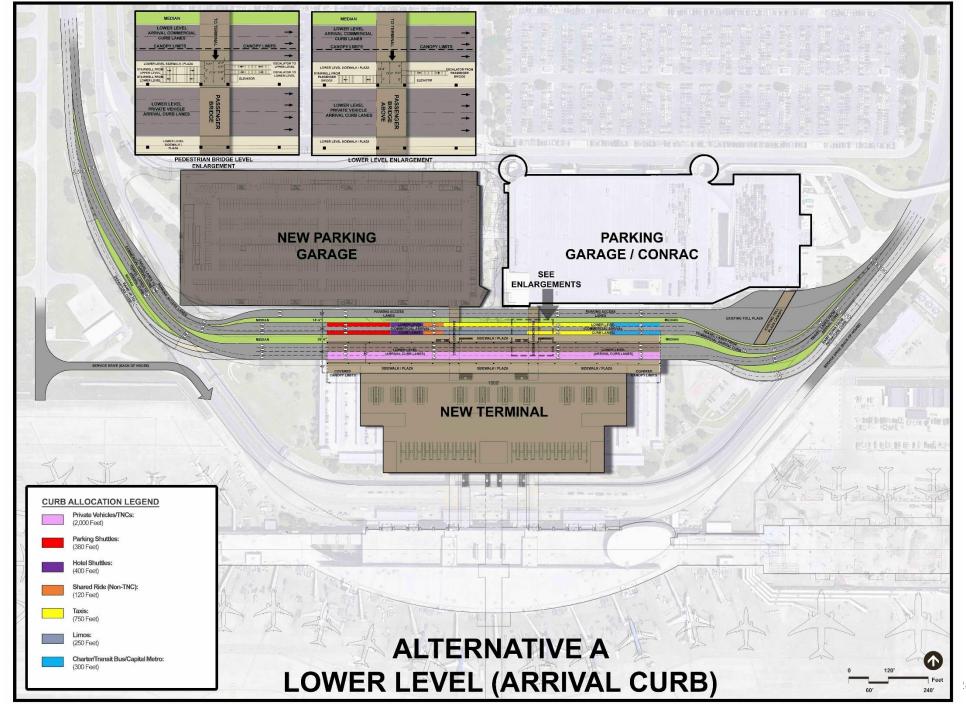


### Terminal Concept Departures Hall Rendering View



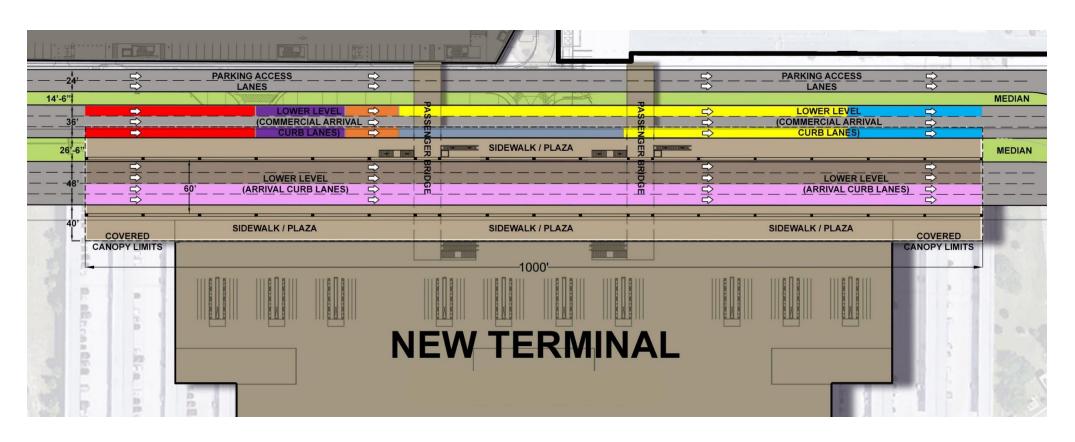


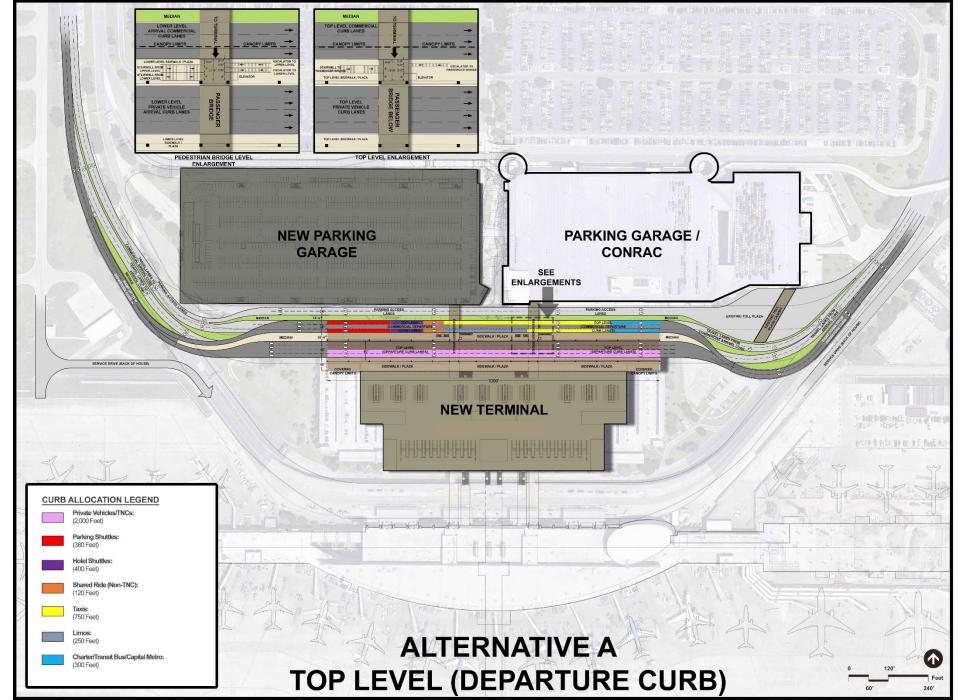
MODE	CURB LENGTH REQUIRED (ft.)	CURB LENGTH PROVIDED (ft.)	
POVs/TNCs	990	*2,000	
Parking Shuttles	342	460	
Hotel Shuttles	(no existing forecast)	400	
Shared Ride (non-TNC)	(no existing forecast)	120	
Taxis	750	750	
Limos	(no existing forecast)	250	
Charter/Transit Bus	114	300	
P  A  B  A  B  A  B  A  B  A  B  A  B  A  B  A  B  A  B  A  B  A  B  A  B  A  B  A  B  A  B  A  B  A  B  B		Lanes 5 - 7  Maneuver Lane  12 feet  12 feet  Passenger Bridge  Passenger Bridge  Commercial Arri  147 feet	Departure Curb  Terminal  Terminal  Terminal  Arrival Curb  Arrival Curb



### Preferred Curb Design Plan View

(Plan View: Lower Level Arrivals Curb)





### Preferred Curb Design Plan View

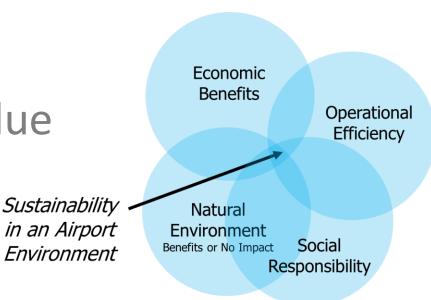
(Plan View: Top Level Arrivals Curb)





# Sustainability

- Customer and community value
- Operational excellence
- Economic sustainability
- Environmental stewardship
- •Sustainability initiatives recommended based on current ABIA efforts, City of Austin and ABIA goals, and global best practices



# Sustainability

Recommendations are made in the following categories:



Air and greenhouse gas emissions



Site ecology and land management



Energy



Waste





Water



Local and community partnerships



Revenue



Design and construction



Surface transportation

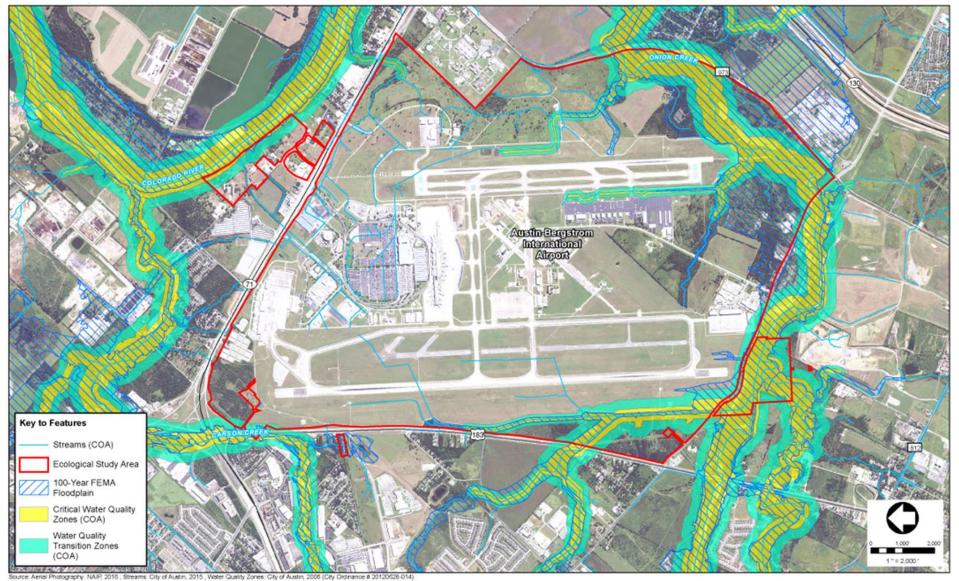


Resiliency

# Environmental Considerations Included in the Master Plan

- Existing and future land use
- Noise compatibility
- Socioeconomic and community resources (churches, schools, etc.)
- Ecological resources (vegetation and wildlife, threatened and endangered species, water resources)
- Air quality and climate
- Cultural resources (archeological and historic resources)
- Hazardous materials

# Ecological Study Areas





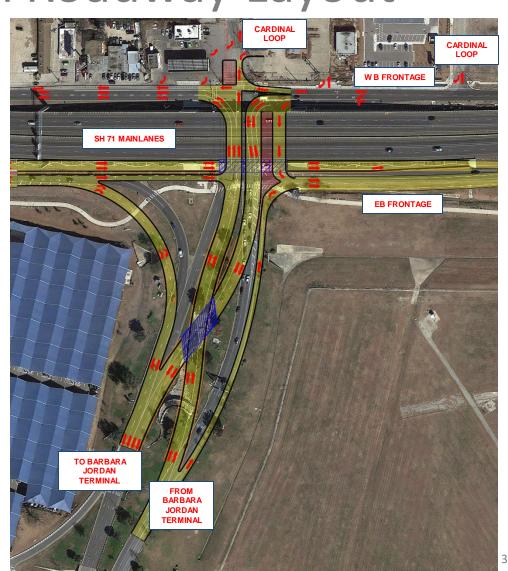


# Connected Airport Campus

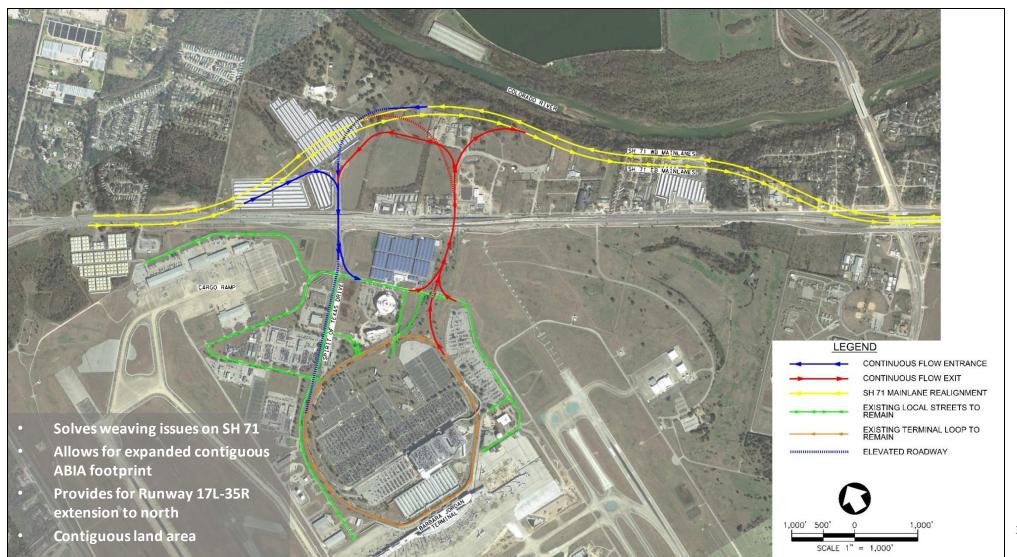
- Provide Free Flow Traffic Patterns
- Tie into Capital Metro routes
- Enhance Bike Access
- Sidewalk Access
- Relocated SH 71 (long-term)

### Alternative 1: Braided Left Turn Preferred Near-Term Roadway Layout

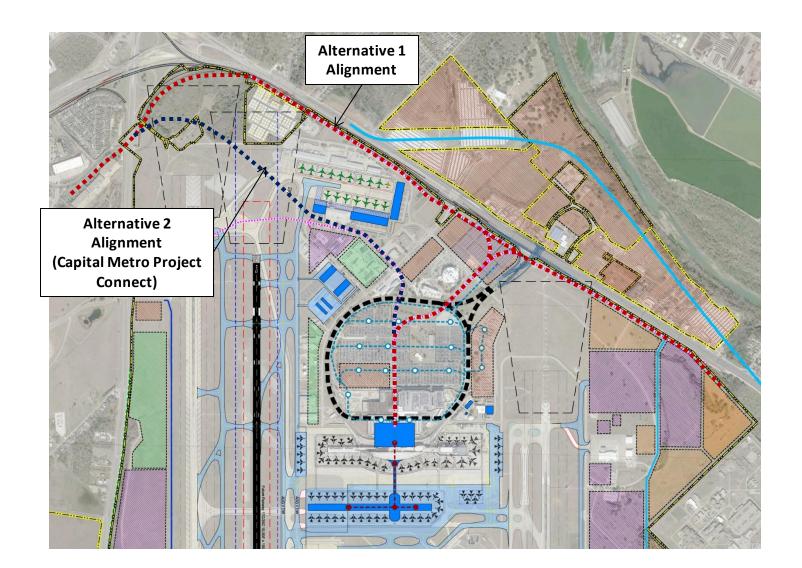
- Near term Presidential Blvd. modification
- Reverse flow under SH 71 via overpass switch on Presidential
- Free flow entrance/exit
- Elevated East Bound frontage along SH 71
- Maintain current SH 71 bridge
- Coordinated with TxDOT SH 71
   Frontage Roadway project



# Alternative 6: Relocating SH 71 to the North Preferred Long-Term Roadway Layout



# Potential Light Rail Alignments





## Next Steps

- Aug. 28<sup>th</sup>: TAC Mtg. #4
- Sept. 26<sup>th</sup>: Public Mtg. #4
- •Oct. 9<sup>th</sup>: Austin Airport Advisory Commission Mtg. #4 (Master Plan Executive Summary and ALP)
- Nov. 1<sup>st</sup>: City Council (Master Plan Executive Summary and ALP)
- Nov. 15<sup>th</sup>: Final Master Plan to FAA