

Rapid City Regional Airport

Development Concepts

January 26, 2021



ENGINEERING, REIMAGINED

Development Areas

Determine developable areas & put space to its best use

Constraints/Challenges

- Terrain
- Design Standards
- Existing Leaseholds



Use	Area																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	R1	U1	U2	U3	U4		
SRE/Ops/Maint																								
FBO/FBO Hangars																								
SASO																								
Lg./Corp. Hangars																								
GA Hangars																								
Cargo																								
USFS																								
Parking																								
Fuel Farm																								
Rental Car																								
Hotel																								
Misc./Nonaero																								

Airport Road Reconfiguration

North GA Area – Development Concepts

Option 1

Preserve for
future apron
frontage or
parking

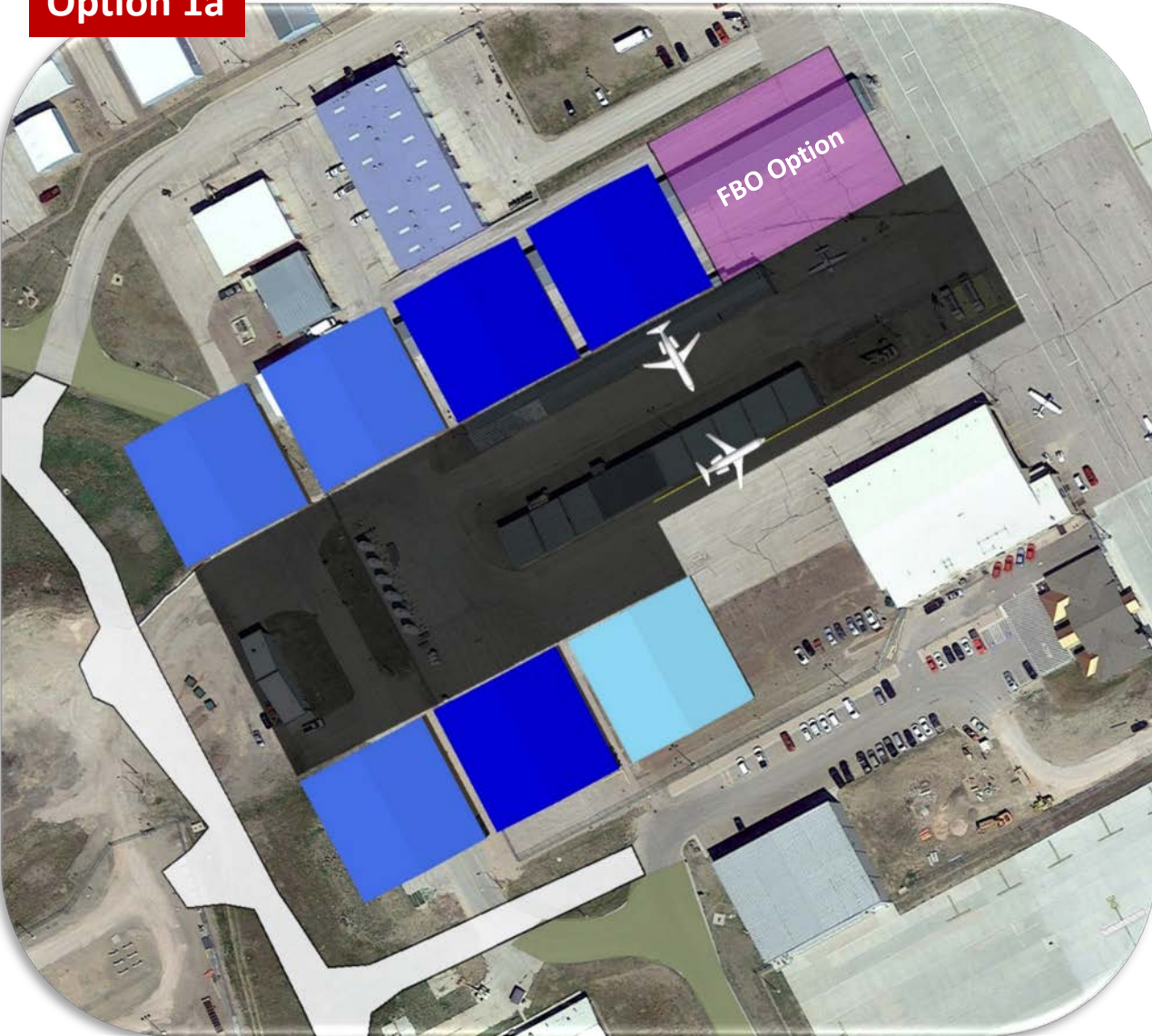
Option 2



ENGINEERING, REIMAGINED

South GA / Corporate Development Concepts

Option 1a

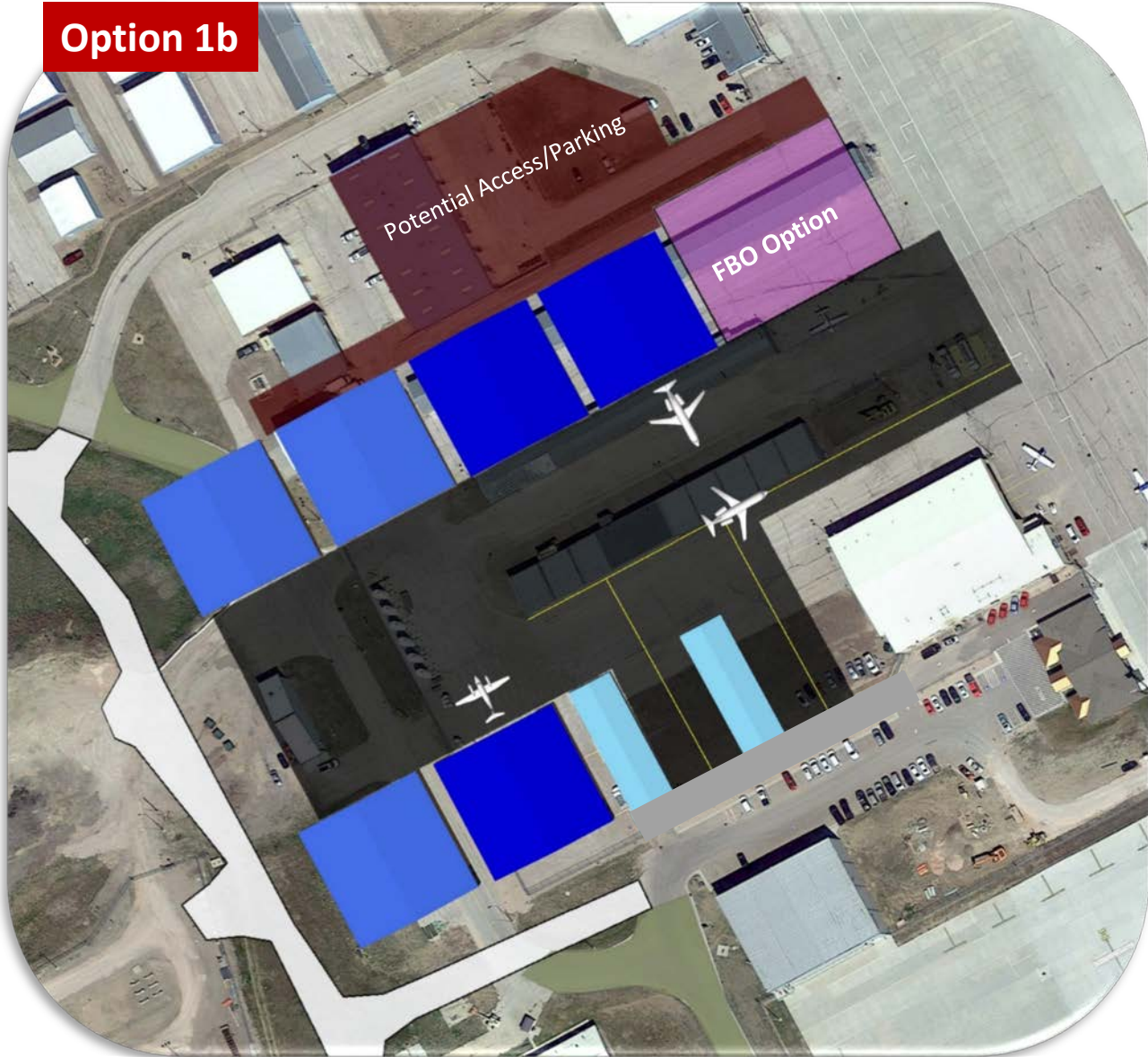


Option 2a

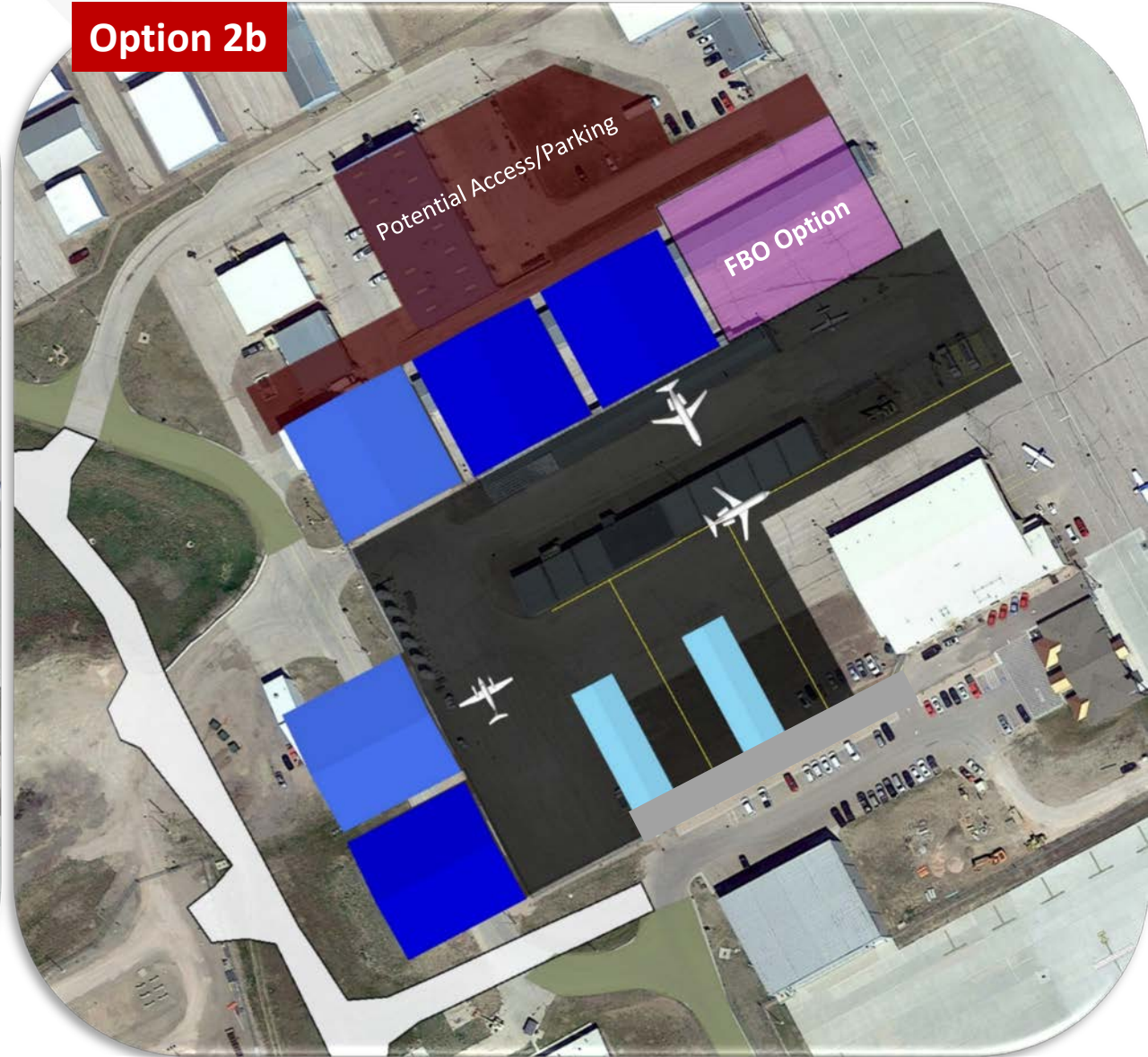


South GA / Corporate Development Concepts

Option 1b

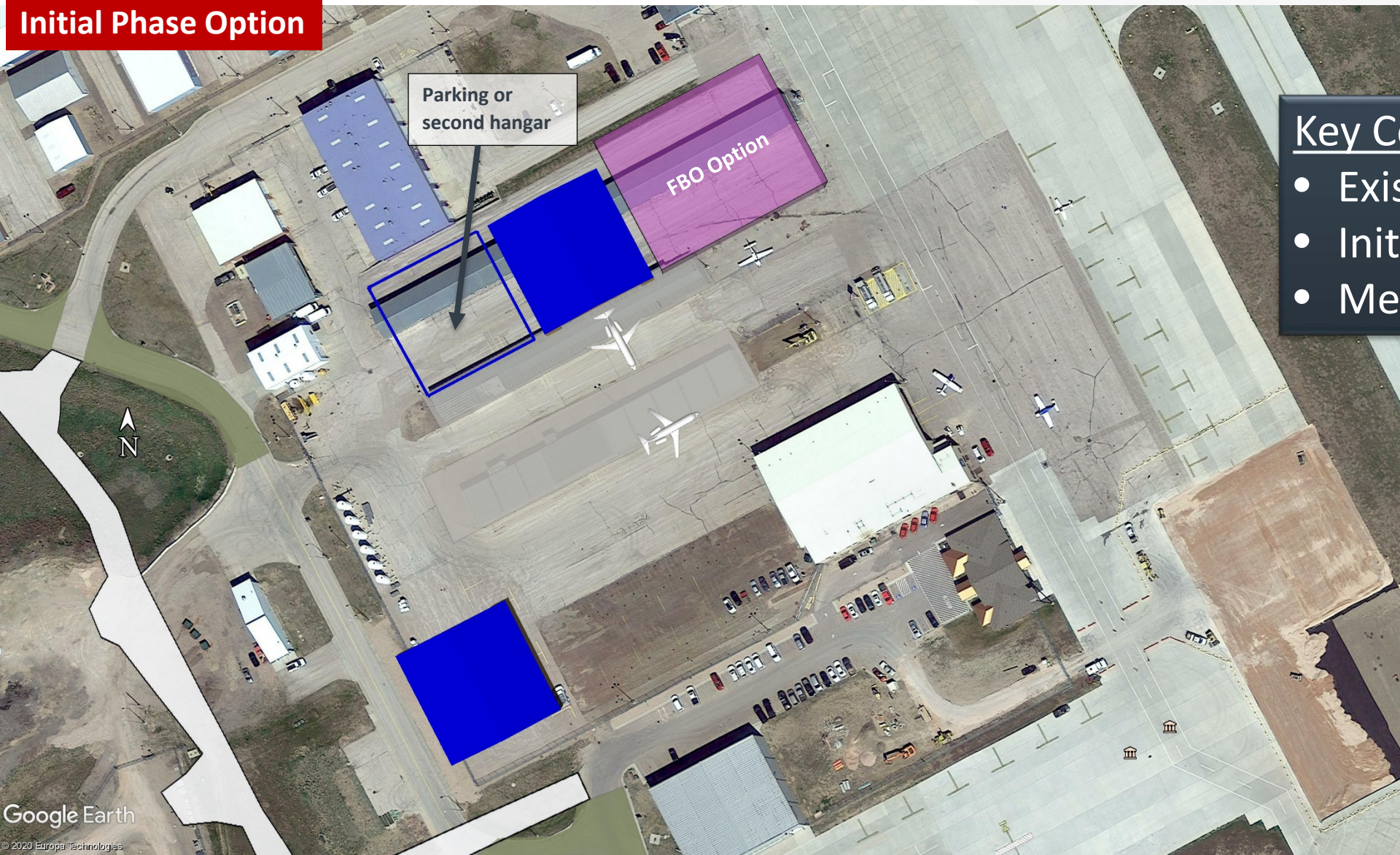


Option 2b



South GA / Corporate Development Phasing

Initial Phase Option



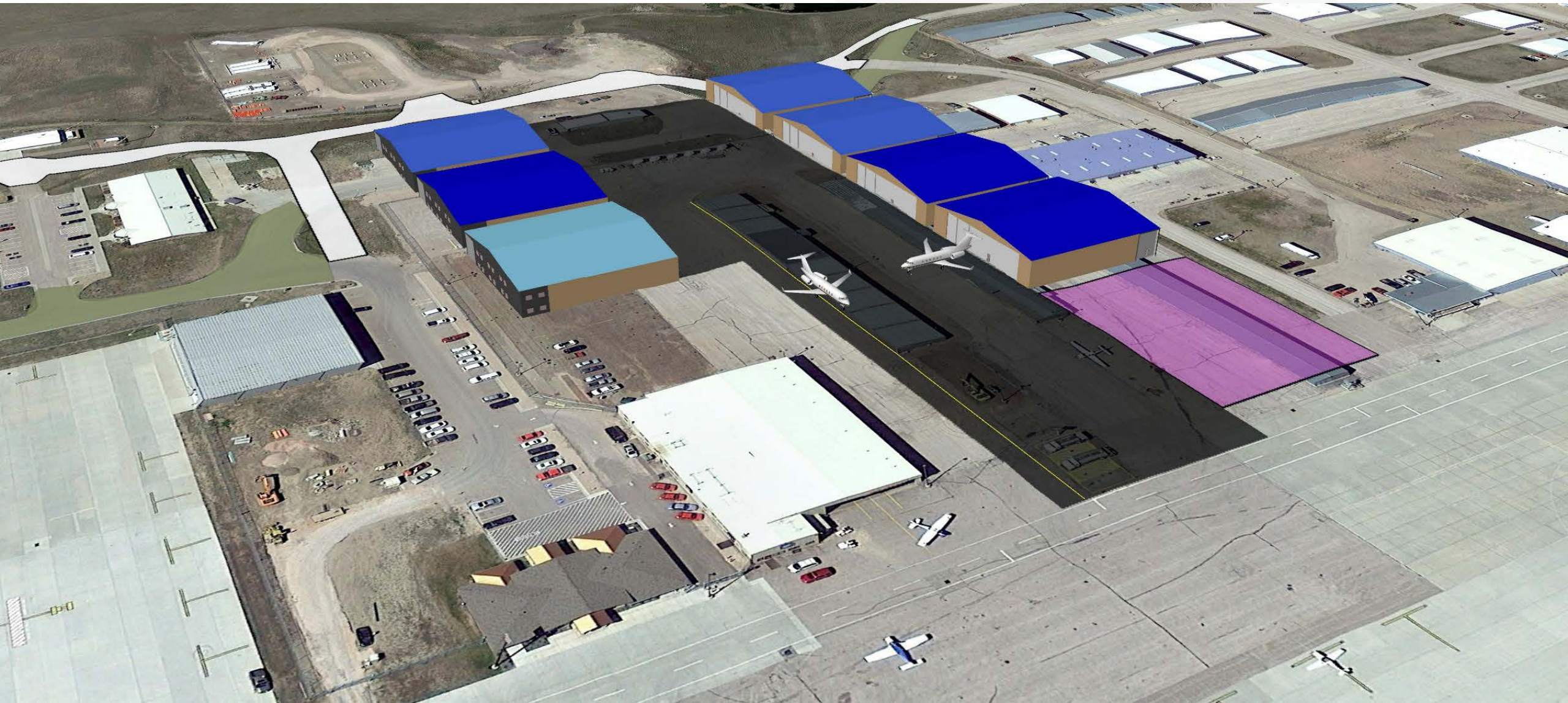
Key Considerations

- Existing Leaseholds
- Initial Access/Parking
- Meeting Design Standards

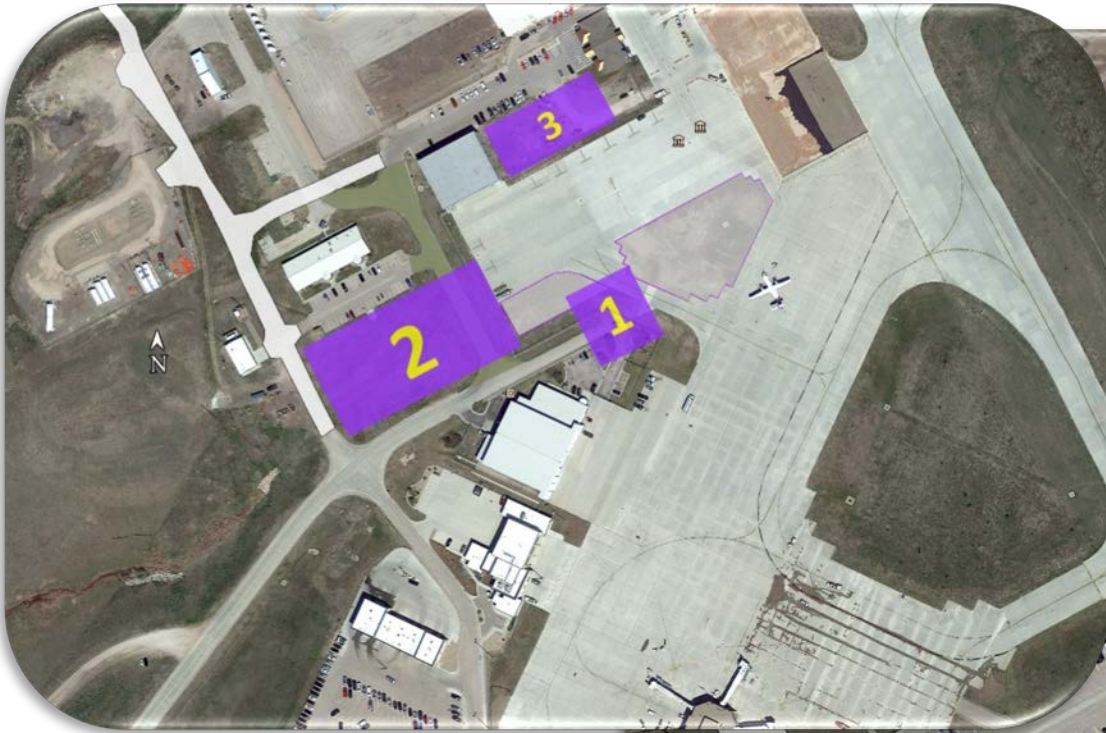


ENGINEERING, REIMAGINED

3D View of Option 1a



Cargo Area Options



SRE/Ops/Maintenance Area Options



Combined Option Example



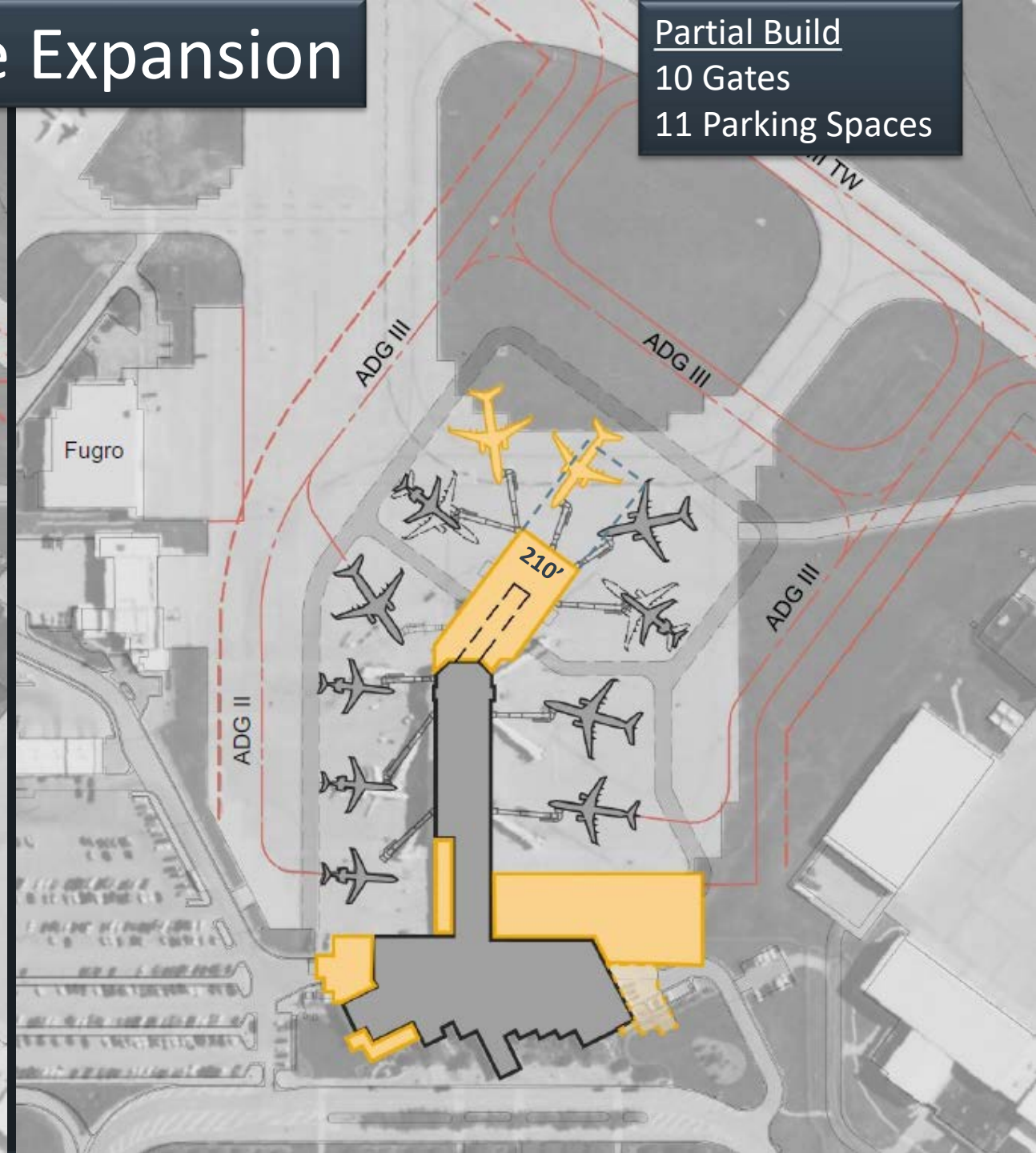
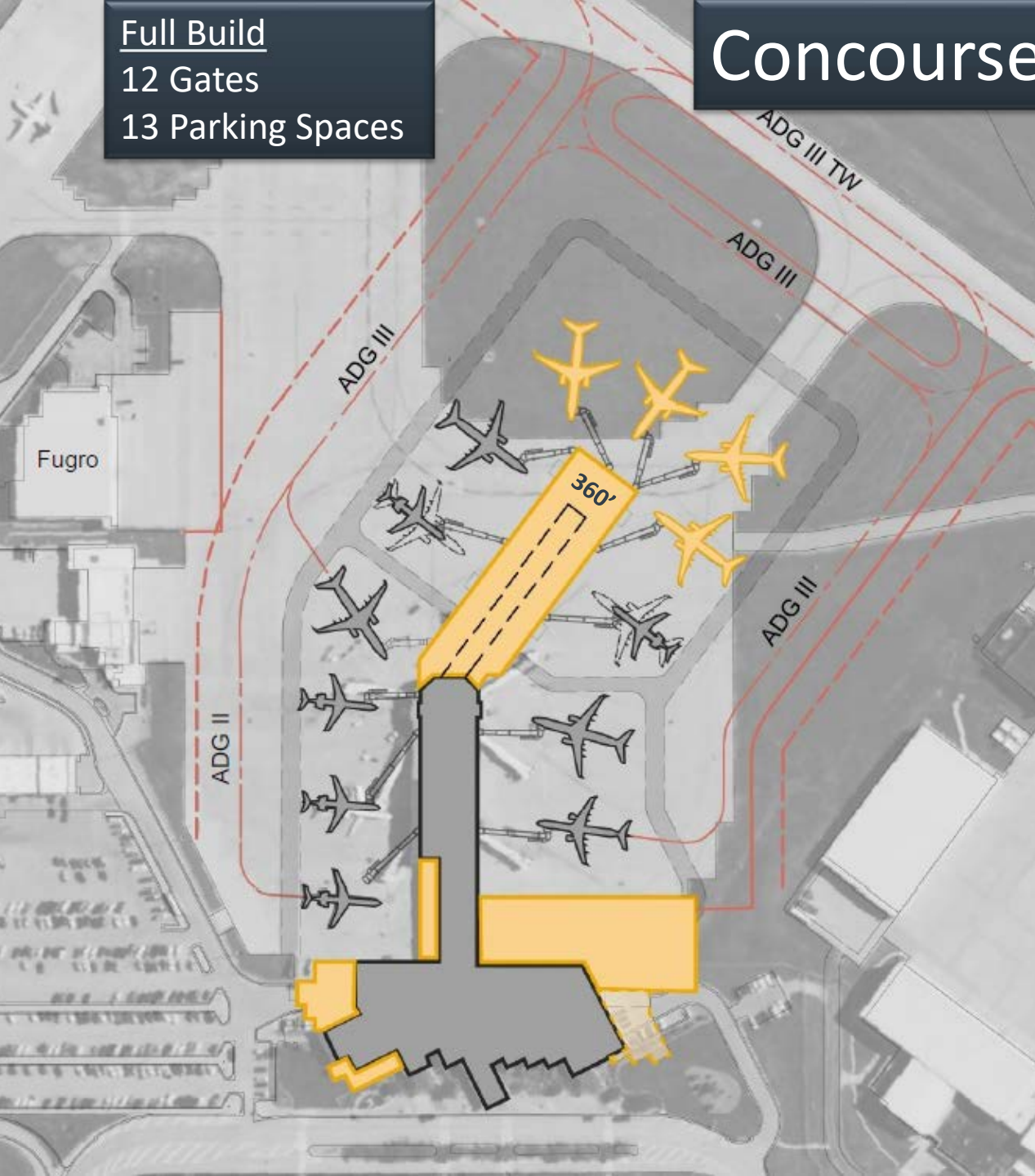
Combined Option Example



Full Build
12 Gates
13 Parking Spaces

Concourse Expansion

Partial Build
10 Gates
11 Parking Spaces





Site Options Review Initial & Long Term

LINEAR OPTION

Initial Build



Long Term



DOG-LEG OPTION

Initial Build



Long Term



Preferred Options EDS Option A.4, Baggage Claim & Rental Car Option A.1

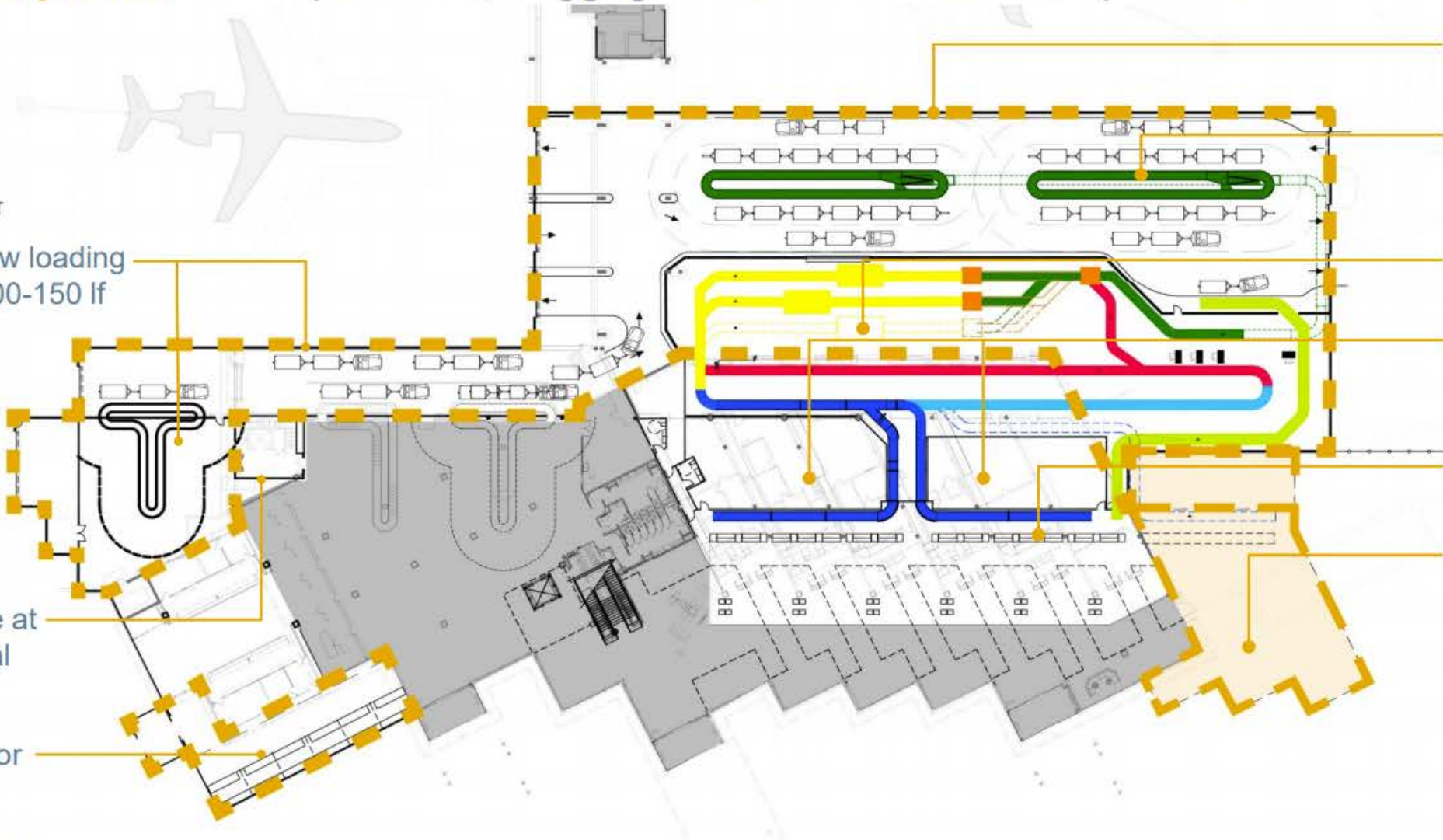
- TICKETING BELT
- BAG SCREENING
- TSA SCREENING
- CLEAR
- OVERSIZE
- RECIRCULATING BELT

Addition for new loading dock & third 100-150 lf claim device

New enclosure at existing vertical circulation

New addition for car rental

Total Arrivals addition area $\pm 8,582$ sf



$\pm 31,412$ sf addition

2-160 lf makeup flat plate carousels. Capacity for 24 carts

Future screening unit

ATO's

New ticket counters & scales, 28 positions

Future Ticketing Hall Expansion

Next Steps

- Review Development Concepts with FAA & SDDOT
- Finalize Requirements Chapter
- Focus Group & Advisory Committee Follow-Up Meetings
- Public Meeting
- Finalize:
 - Alternatives Chapter
 - Implementation Chapter
 - Airport Layout Plan (ALP)



ENGINEERING, REIMAGINED



Thank You!



ENGINEERING. REIMAGINED

Matt Nisbet
701.355.8449
matt.nisbet@kljeng.com