

Public Information Meeting

U42 Airport Master Plan









RS&h



Agenda

- » Master Plan Overview
- » Key Study Conclusions
- » Forecast and Requirments Review
- » Alternatives Analysis
- » Next Steps

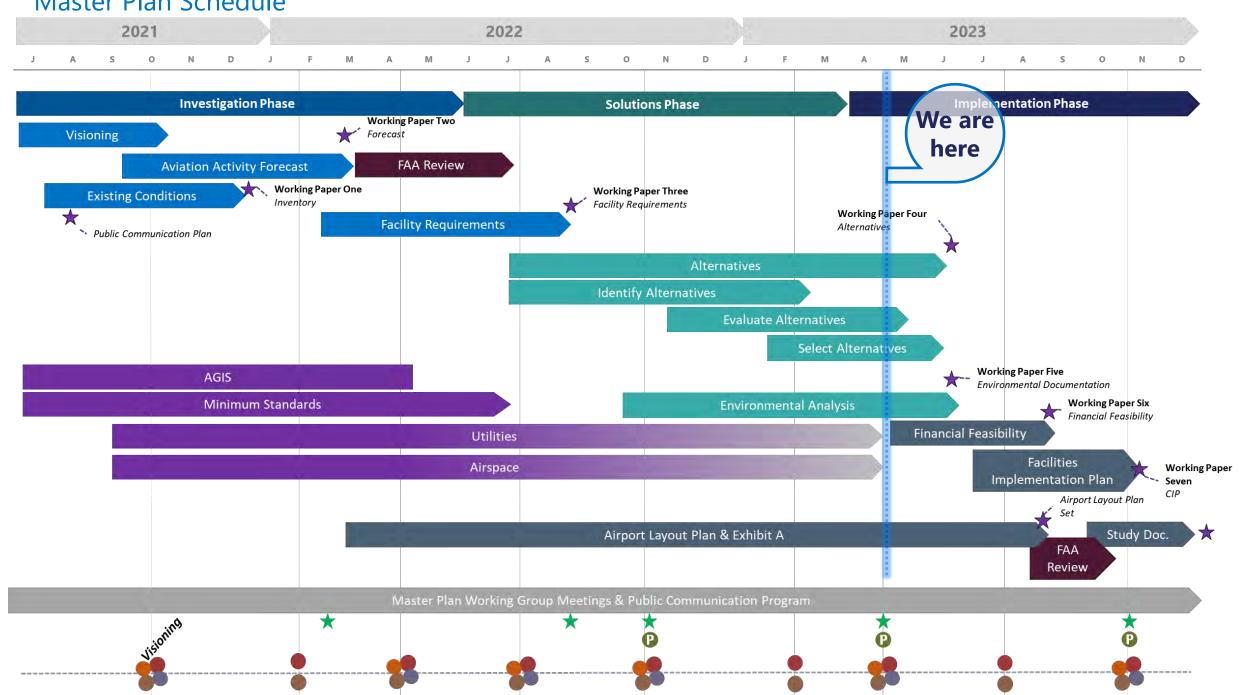


MASTER PLAN OVERVIEW





Master Plan Schedule 2021



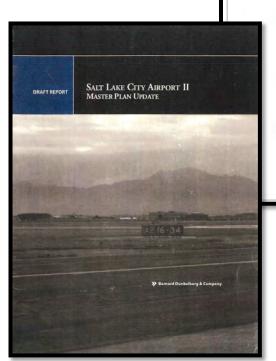


History of planning at U42

1990 Master Plan

2006 Master Plan

Current 2023 Master Plan



MASTERPLANUPDATE
SALTLAKE CITY AIRPORT II
Salt Lake City, Utah

AIRPORT LAYOUT PLAN

- AMICOKI ENTOCITEM
- 2 of 13 ABRORT ARSPACE DRAWING CONICAL SUREACE
- 5 of 13. INNER APPROACH PLAN & PROFILE: RUNWAY 34.
- 7 of CL THRESHOLD SITING SURFACE PLAN & PROFILE RUNWAY
- 19 et 13 TERMINAL AREA PLAN NORTH
- 12 of 1). AIRPORT PROPERTY MAP EXHIBIT 2 13 of 12. AIRPORT INPLUENCE 20NES

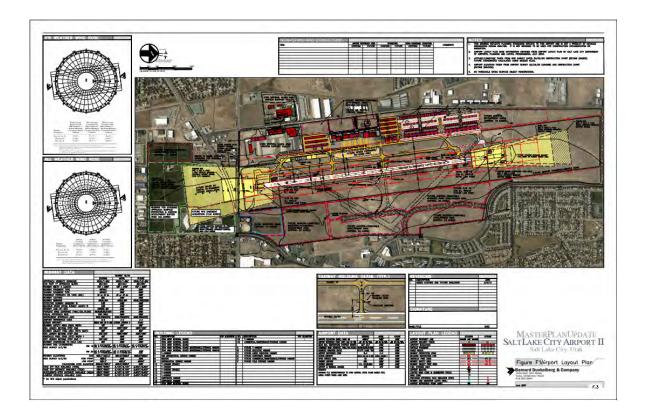


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Master Plan Work Products

Airport Layout Plan: (Illustrates the plan)

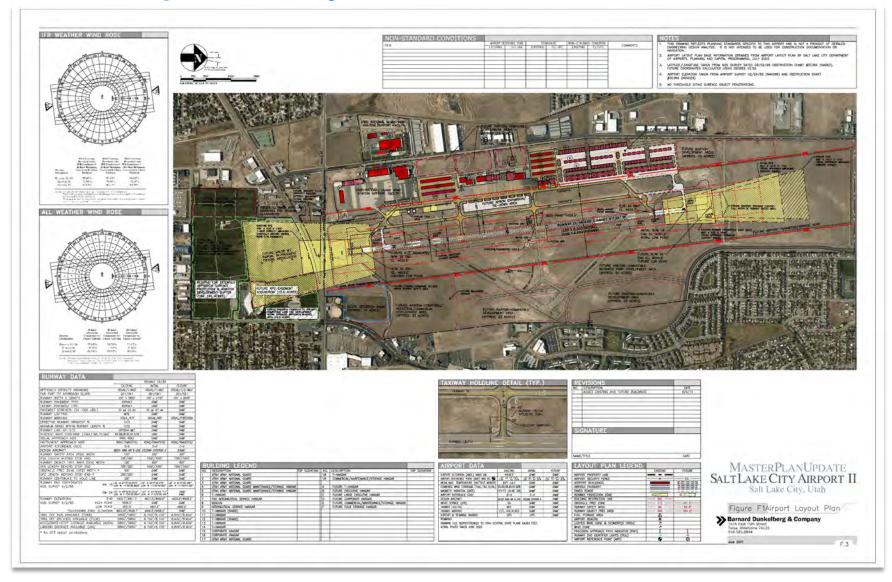


Technical Report: (Documents the why and how)





"Current" Airport Layout Plan



U42 History & Grant Assurances



Owned by US Govt

Began as an Army Base In 1942

Ownership Transferred To SLC



Shortly after WWII

Accepted Federal Funding

Grant Assurances (Obligations)

U42 has received almost \$7.4 million in federal funding since 2006



What Are FAA Grant Assurances?



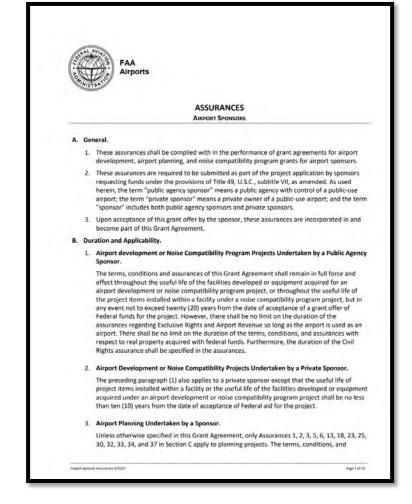
» When SLCDA accepts funds from the FAA, they agree to 39 obligations or

"assurances"

Airport open for public use without discrimination of types of aeronautical activities.

Airport must be selfsustaining by maintaining an appropriate fee and rental structure

All facilities developed with Federal assistance must be made available to government aircraft



All revenues generated by the airport must be used for the capital or operating costs of the airport

Take appropriate action to restrict incompatible land use in the immediate vicinity of the airport.

Airport Layout Plans must be kept up to date at all times

KEY STUDY CONCLUSIONS





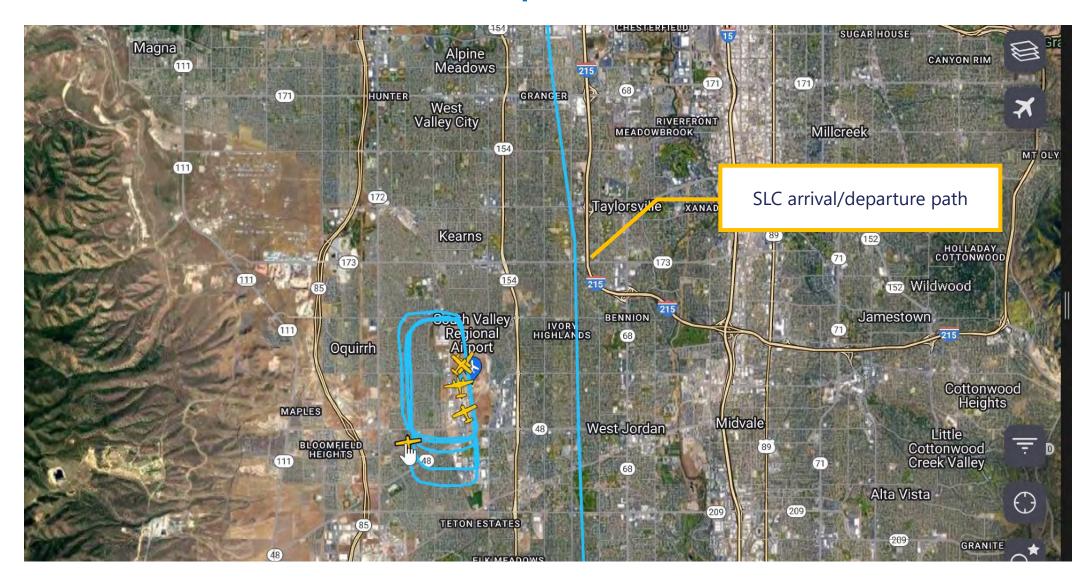


Airspace – Confirmed Parameters

- » Adjusting runway orientation has little to no benefit
 - Counter-clockwise shift may have slight benefit but conflicts with VFR corridors
 - Clockwise shift is not beneficial as it would conflict with SLC operations
- » Pattern on the east side of the airport will not work with the valley's airspace.
 - FAA confirmed an east side pattern would conflict with arrivals to SLC.
 - TCAS warnings would be constant. Safety would be degraded



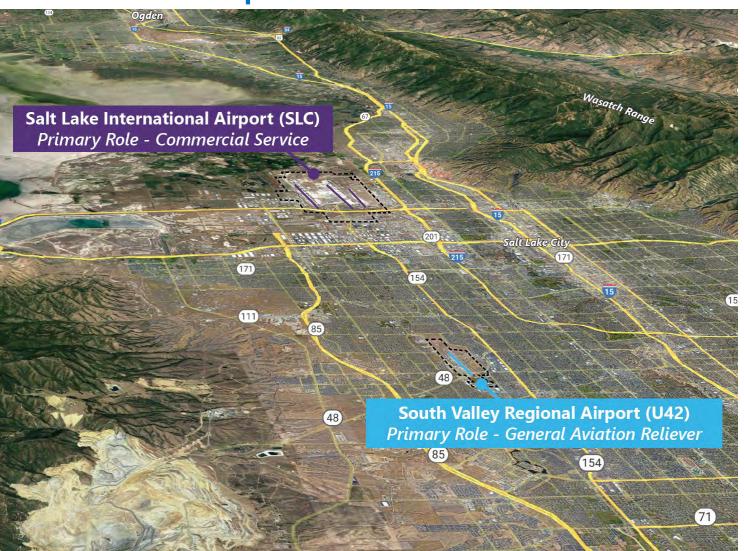
East Side Pattern – Not practical





ATCT Tower – Land should be preserved

- » Examined 27 airspaces with similar issues as SLC-U42
- » Found 18 conflicted airspaces with Class D resolution (ATCT tower)
 - Majority with 200+ based aircraft
- » Analysis indicates an ATCT tower should be planned for
 - East side location





VFR Traffic Pattern Analysis

Current CAT A & B VFR Traffic Pattern





Existing VFR traffic pattern tightly situated between VFR corridor and Class B Airspace and all west of the runway to avoid SLC approach traffic

Land Use – Study in progress

- » Safety Study
 - Runway Protection Zone based study
 - ACRP reports
 - FAA statistics
- » Fair market rate land appraisal



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FORECAST AND REQUIRMENTS REVIEW





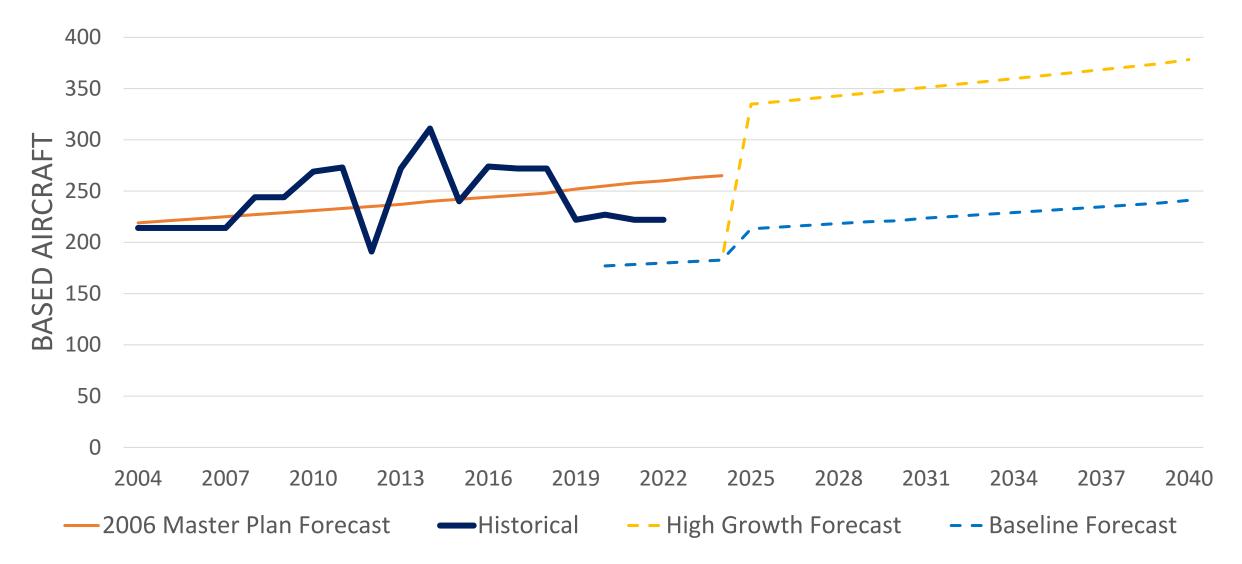


Aviation Forecast

Forecast Year	Planning Activity Level (PAL)	Based Aircraft Base Case	Based Aircraft High Growth	Operations Base Case	Operations High Growth
2020	Base Year	177	177	70,990	70,990
2025	PAL 1	213	335	73,000	111,000
2030	PAL 2	221	348	76,000	115,000
2040	PAL 3	241	378	82,000	125,000

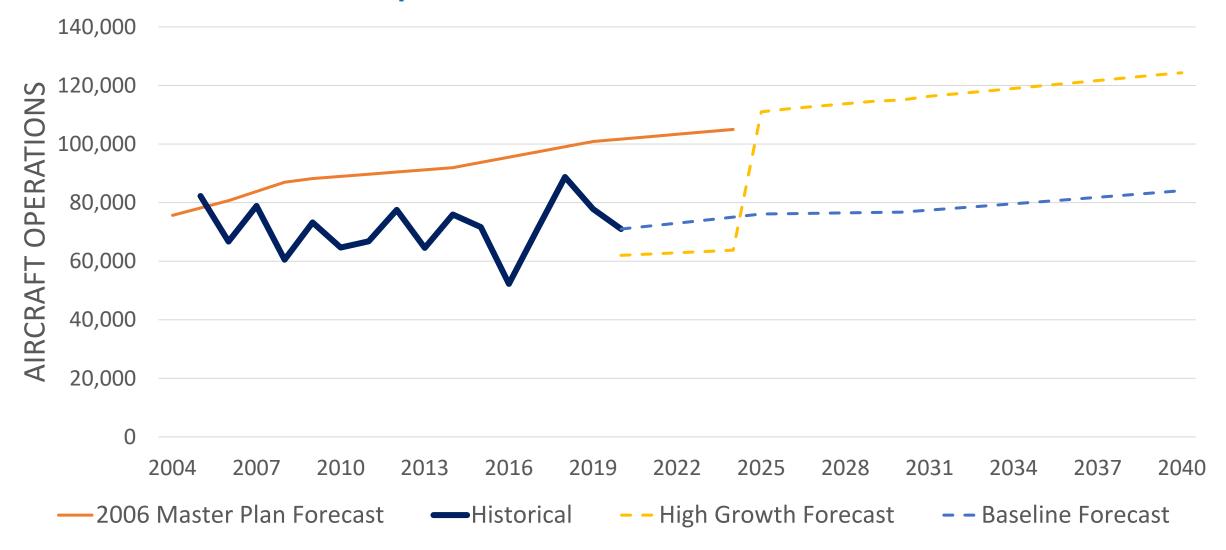


U42 Forecast Based Aircraft





U42 Forecast Operations





Facility Requirments

Facility	Action Needed
Runway Length	Plan for longer runway
Airfield Geometries	Plan for C-II compliance
Airspace and Approach Capability	Plan for better approaches/departures
Runway Protection Zones (RPZ)	Move RPZ off of public building
Support Facilities	Maintenance and Fuel Farm
Aircraft Parking and Storage	Plan for more aircraft storage

Somewhat Deficient Highly Deficient

ALTERNATIVES





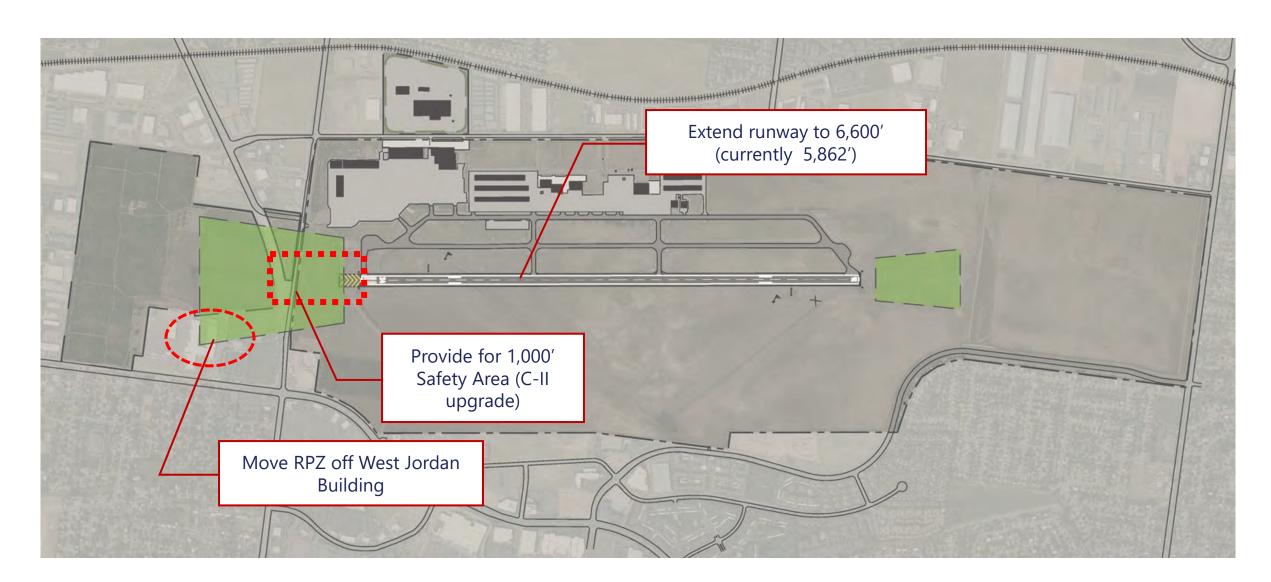


U42 leading to trailing elements



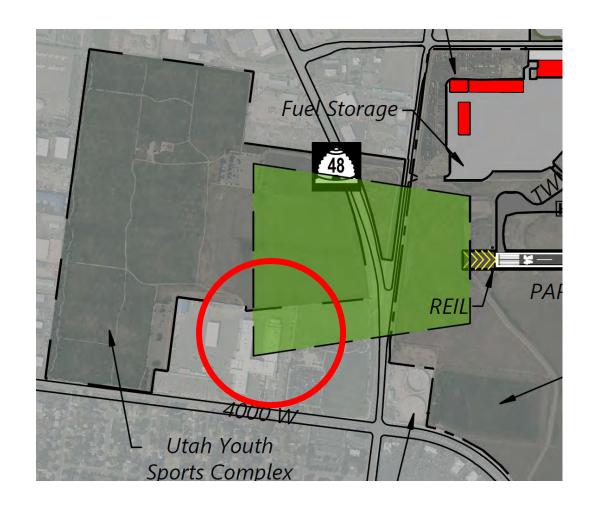


Runway alternatives objectives



What is a Runway Protection Zone?

- » Runway Protection Zone (RPZ)
 - "The RPZ function is to enhance the protection of people and property on the ground."
 - Permissible land uses under an RPZ
 - Farming
 - Irrigation channels
 - Airport service roads
 - Underground facilities
 - NAVAIDS
 - Above ground fuel tanks for back up generators for unstaffed NAVAIDS



What did the last master plan propose

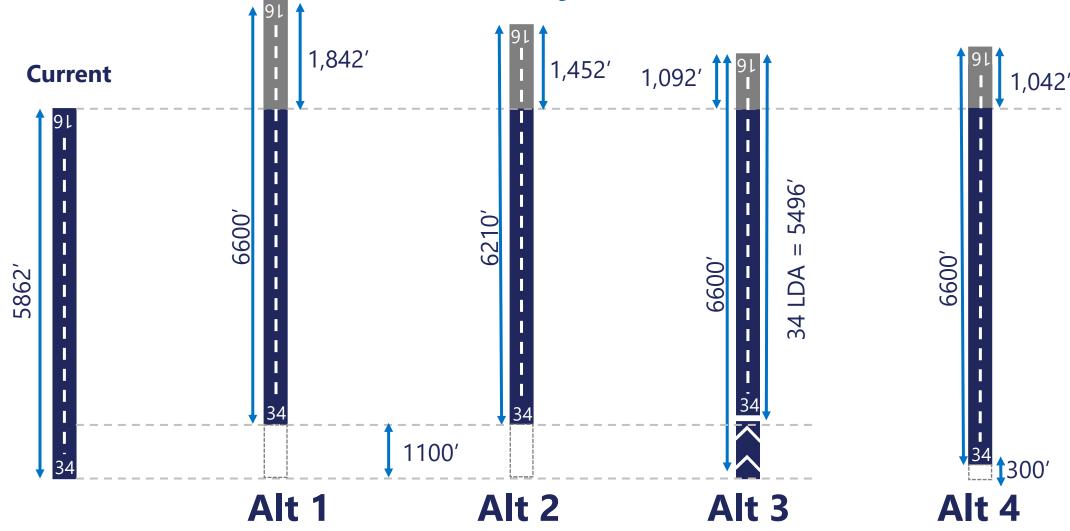
Large RPZ for Offset Runway 34 RPZ for >3/4 mile **Extend Taxiway A and B** precision approach 415' north (C-II) approach FUTURE CONCRED SPANNING CULVERY WITHIN PLANNING SWELLY AREA

MALSR lighting to support precision approach

Extend runway to 6,600'

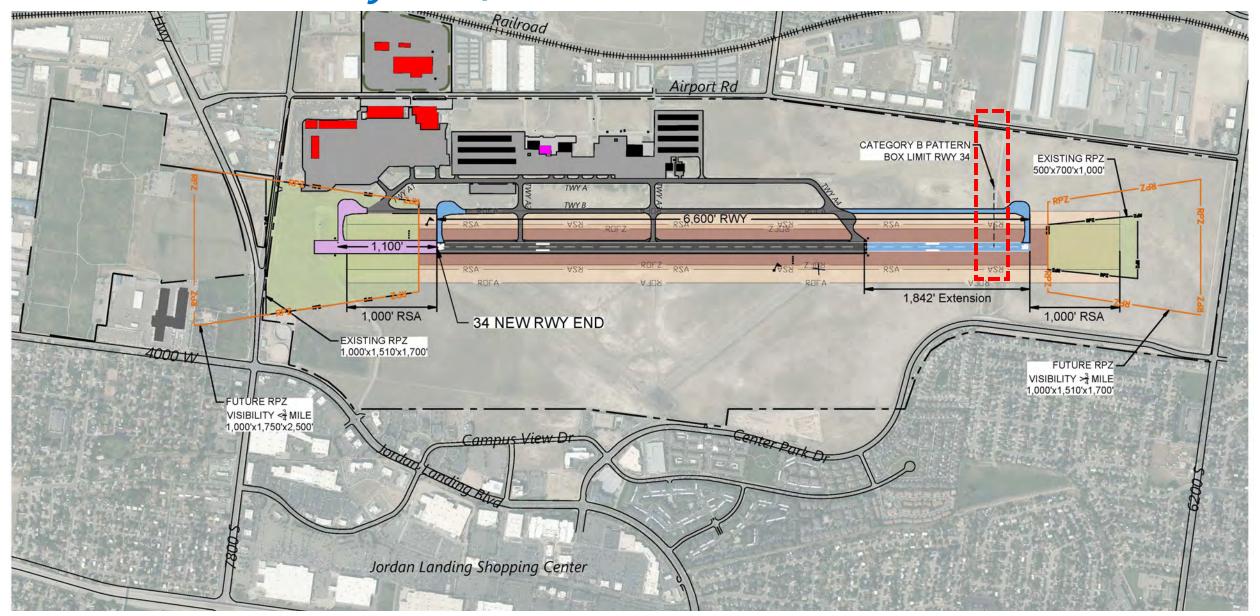


Extension Alternatives Analyzed



ALT 1: Runway Shift North – 6,600'





VFR Traffic Pattern Analysis

Current CAT A & B VFR Traffic Pattern



CAT A & B VFR Traffic Pattern for Proposed Alternate #1

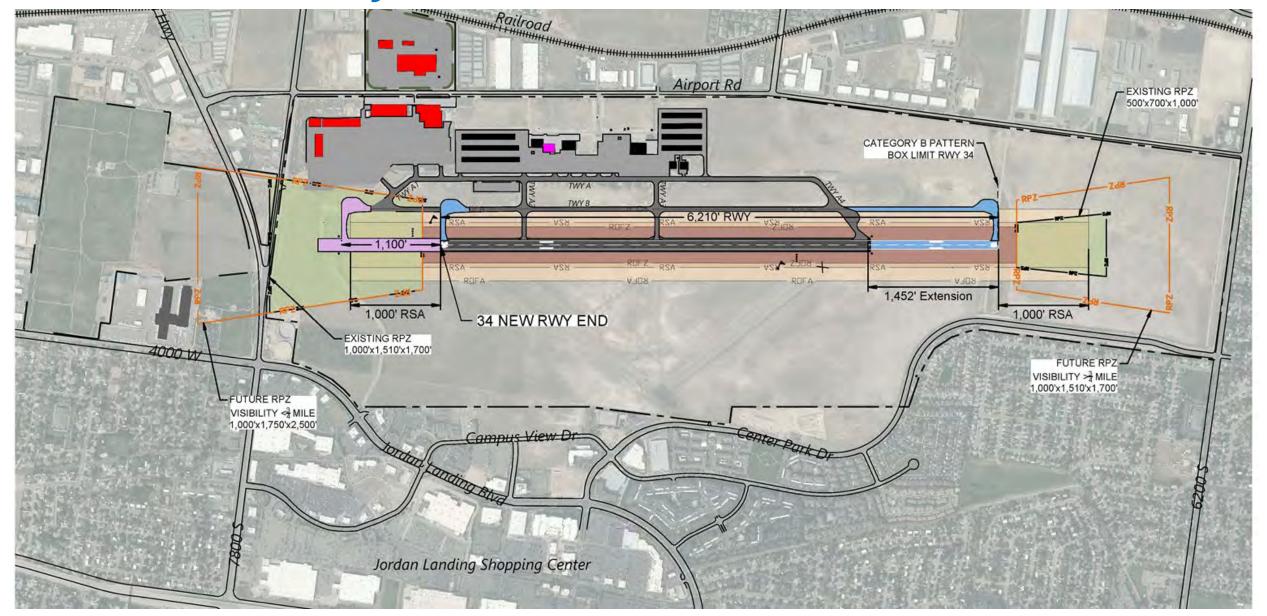




Existing VFR traffic pattern tightly situated between VFR corridor and Class B Airspace and all west of the runway to avoid SLC approach traffic

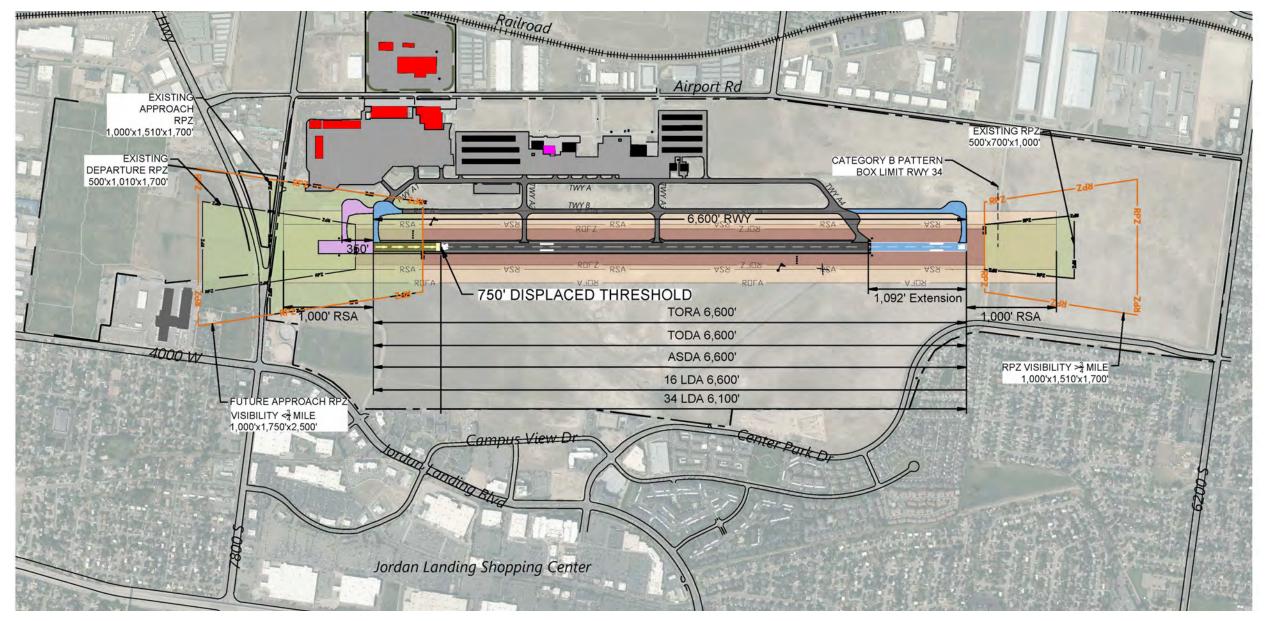
ALT 2: Runway Shift North – 6,210'





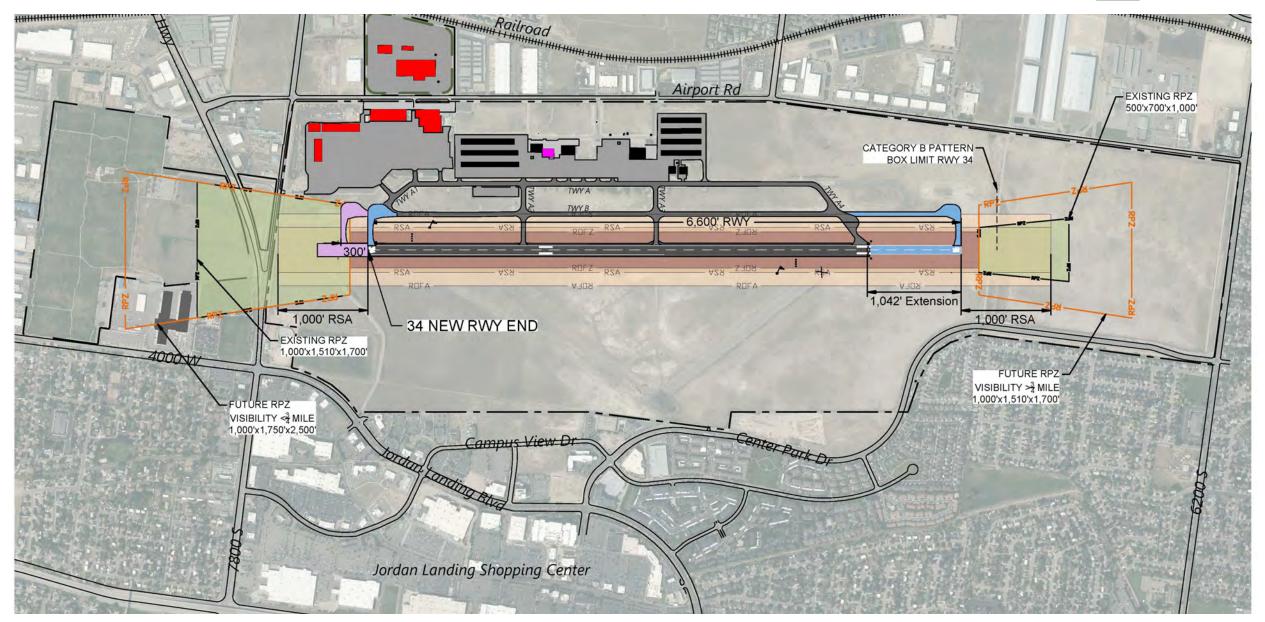
ALT 3: Declared Distances – 6,600'





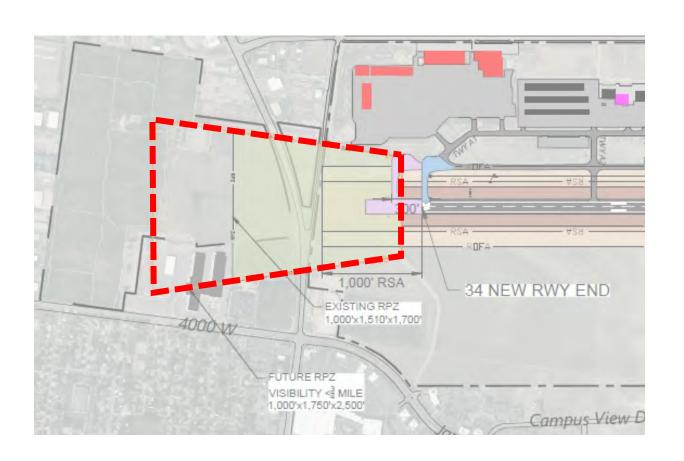
ALT 4 – No RPZ Enhancement







Decision to not plan for <3/4 Mile Vis



	Runway Alternative 4 No RPZ enhancement 6,600'
Airspace Integration	
Aircraft Performance	
Land Use Integration	
Facility Integration	
ROM Costs	
Carbon Footprint	
FAA Preferences	



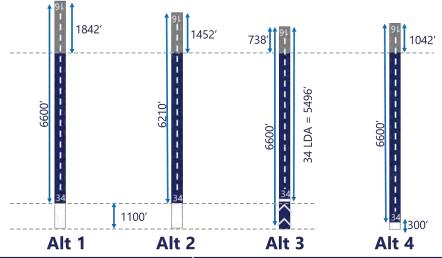
U42 typically available to arriving aircraft

- » A level above 95% is essentially hub airport level reliability
- » Indicates that significant investments on the airport to achieve lower minimums are not necessary at this time.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
0:00	98.0%	97.2%	100.0%	99.8%	99.6%	100.0%	100.0%	99.8%	100.0%	98.2%	98.9%	96.7%
1:00	97.6%	97.5%	100.0%	99.3%	100.0%	100.0%	100.0%	100.0%	100.0%	98.3%	98.9%	96.5%
2:00	95.2%	98.2%	100.0%	100.0%	99.8%	100.0%	100.0%	99.4%	99.8%	97.9 %	98.9%	96.2%
3:00	95.4%	98.5%	99.8%	99.8%	99.6%	100.0%	100.0%	99.8%	99.6%	98.2 %	99.6%	96.1%
4:00	98.5%	99.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	99.4%	98.2 %	99.3%	96.4%
5:00	97.6%	99.0%	99.1%	99.5%	100.0%	100.0%	100.0%	100.0%	99.8%	98.2 %	99.4%	95.7%
6:00	98.0%	99.2%	99.3%	99.8%	100.0%	100.0%	100.0%	100.0%	99.8%	98.1%	98.9%	96.0%
7:00	98.3%	98.5%	98.9%	99.8%	100.0%	100.0%	100.0%	99.8%	100.0%	97.8%	99.3%	95.5%
8:00	96.5%	97.3%	99.1%	100.0%	100.0%	99.8%	99.6%	99.6%	100.0%	97.9%	99.6%	96.0%
9:00	98.0%	97.5%	99.3%	99.5%	100.0%	99.8%	100.0%	100.0%	100.0%	98.8%	98.9%	95.5%
10:00	97.4%	96.7%	98.2%	100.0%	99.6%	99.6%	99.8%	100.0%	98.9%	99.8%	100.0%	98.1%
11:00	97.0%	99.5%	98.4%	99.8%	100.0%	99.8%	100.0%	99.8%	98.9%	99.4%	99.8%	99.5%
12:00	99.8%	99.5%	99.8%	99.8%	99.8%	100.0%	100.0%	100.0%	99.2%	98.8%	100.0%	99.3%
13:00	98.2%	98.7%	99.6%	100.0%	99.6%	100.0%	99.6%	99.6%	99.4%	99.4%	98.7%	98.8%
14:00	98.7%	98.7%	99.3%	99.8%	99.8%	99.8%	100.0%	100.0%	99.4%	99.8%	98.7%	98.8%
15:00	98.6%	98.2%	100.0%	100.0%	99.6%	100.0%	100.0%	99.8%	100.0%	99.6%	99.3%	99.5%
16:00	98.6%	98.4%	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	99.8%	100.0%	99.1%	98.3%
17:00	98.5%	98.4%	99.3%	99.3%	99.5%	100.0%	100.0%	99.8%	100.0%	99.8%	99.1%	97.6%
18:00	97.8%	98.4%	99.8%	98.8%	98.7%	99.8%	98.6%	99.4%	99.8%	99.8%	99.8%	97.1 %
19:00	97.1%	98.4%	99.5%	98.8%	99.1%	99.3%	99.8%	99.6%	100.0%	99.8%	100.0%	96.4%
20:00	97.6%	98.4%	99.3%	100.0%	99.8%	99.8%	99.5%	99.2%	99.8%	99.8%	100.0%	96.1%
21:00	97.6%	97.9%	99.5%	100.0%	99.1%	99.5%	99.8%	99.8%	99.6%	99.4%	99.3%	96.6%
22:00	97.2%	98.7%	99.8%	98.8%	100.0%	99.8%	100.0%	99.8%	100.0%	99.2%	100.0%	96.1%
23:00	98.0%	98.4%	100.0%	100.0%	100.0%	99.3%	99.6%	99.8%	100.0%	99.0%	99.3%	96.9%

Day	98.1%	98.3%	99.3%	99.7%	99.7%	99.8%	99.8%	99.8%	99.6%	99.2%	99.3%	97.9%
Night	97.4%	98.4%	99.7%	99.6%	99.7%	99.8%	99.9%	99.7%	99.8%	98.7%	99.4%	96.4%
24 Hours	97.7%	98.3%	99.5%	99.7%	99.7%	99.8%	99.8%	99.8%	99.7%	99.0%	99.4%	97.1%

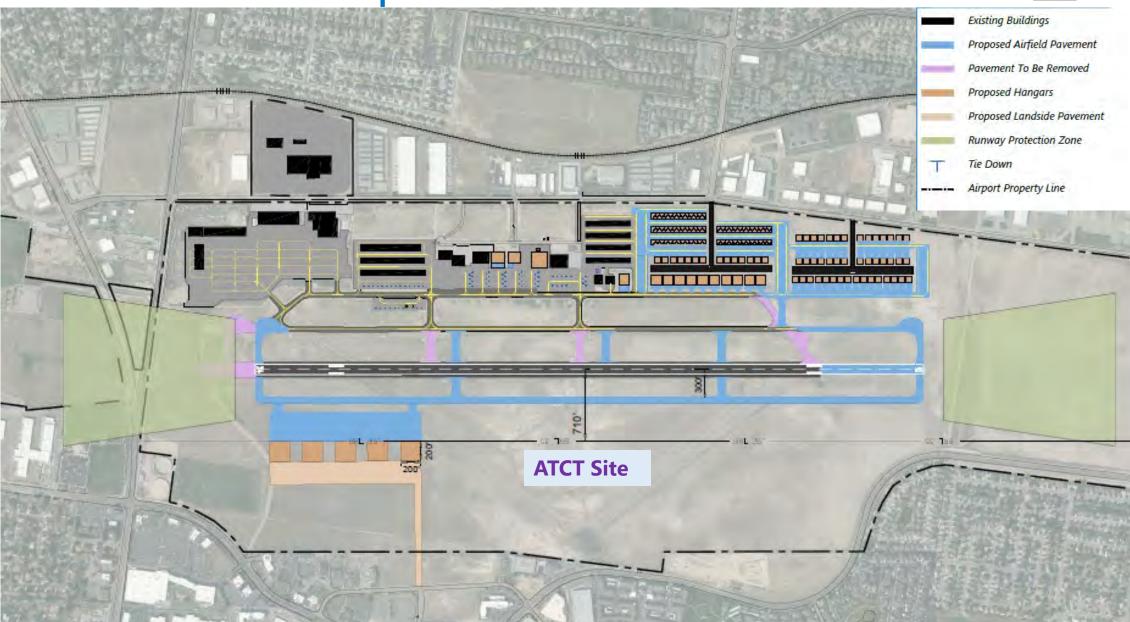
Runway Alternative Evaluation



			Alt 1 Alt 2	Alt 3 Alt 4	
	Runway Alternative 1 Shift N into Class B 6,600'	Runway Alternative 2 Shift N w/out Class B 6,210'	Runway Alternative 3 Declared Distances 6,600'	Runway Alternative 4 <i>No RPZ enhancement 6,600'</i>	
Airspace Integration	CAT B Pattern				
Aircraft Performance		Shorter Runway	Shorter LDA RWY 34		
Land Use Integration	RPZ compliance	RPZ compliance	RPZ compliance	RPZ compliance	
Facility Integration					
ROM Costs					
Carbon Footprint					
FAA Preferences			Uneven Declared Distance		
	Evaluation In Progress	Favorable	Less Favorable	Least Favorable	

Ultimate Development Alternative





North Hangar Development Comparison



2006 Airport Layout Plan



2023 Master Plan ultimate concept



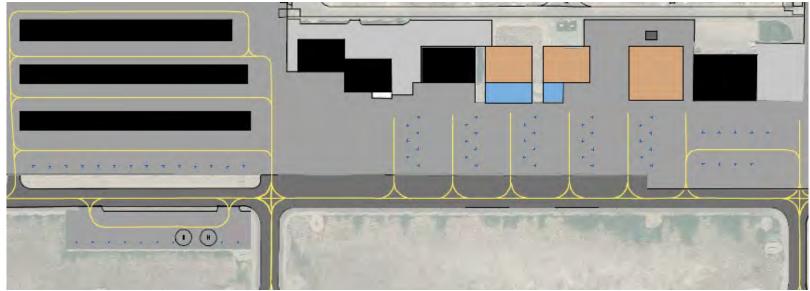
South Hangar Development Comparison



2006 Airport Layout Plan



2023 Master Plan ultimate concept



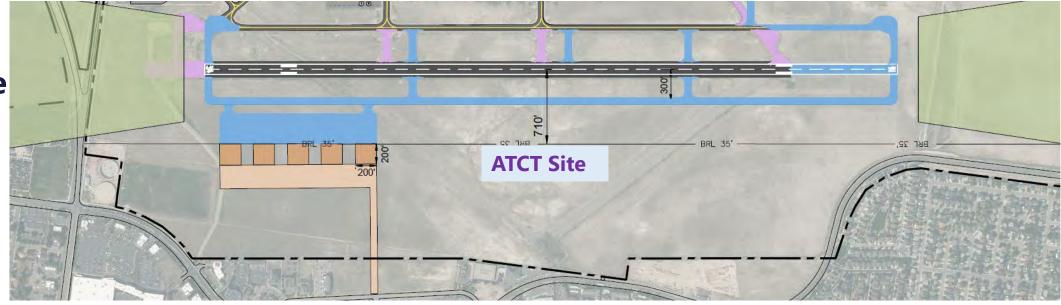
East Side Development Comparison



2006 Airport Layout Plan



2023 Master Plan ultimate concept





Next Steps

- » Preferred alternative selection
- » Implementation and financial planning
- » Stakeholder committee meetings
 - Next Public Open House expected fall 2023



Draft Reports Available Online

» https://slcairport.com/about-the-airport/master-plan

