Airport Master Plan





AGENDA

Planning Advisory Committee (PAC) Meeting #3 – November 13, 2025

- 1. Welcome/Introductions
- 2. Review Master Plan Process
- 3. Critical Aircraft Review
- 4. Airfield Considerations
- 5. Landside Considerations
- 6. Next Steps



PROJECT TEAM



Prime Consultant: Responsible for all aspects of the master plan. Airport planning, environmental analysis, sustainability planning, land use planning, capital improvement plan, airport layout plan.



FAA-required Airports Geographic Information System (AGIS) survey. Aeronautical surveys, data collection, and aerial photography.



Public involvement, public information workshops, project website contributions, and press releases.



Assessment of airport owned and operated facilities and the FBO facilities. Identify opportunities to improve energy efficiency.





Cultural resource literature review.

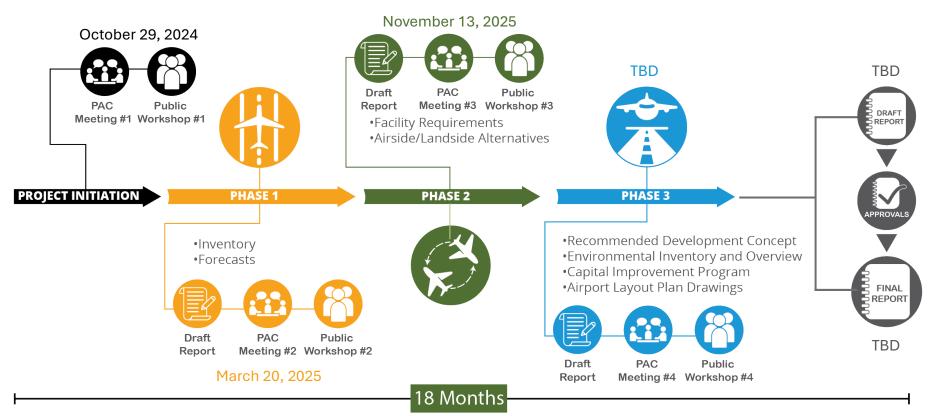


Project cost estimates.

Economic Benefit Analysis.



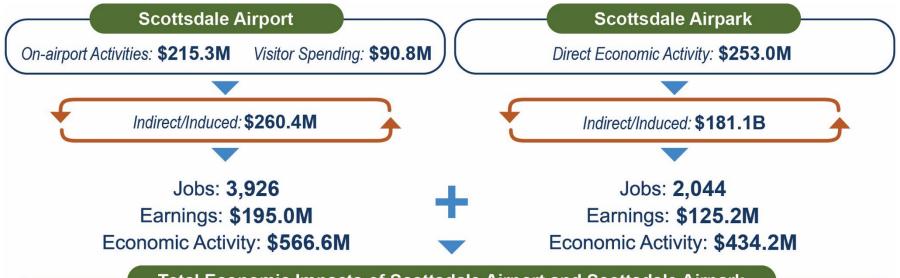
MASTER PLAN PROCESS



• Airport Advisory Commission Update: April 16, 2025



Figure 1-1: Economic Impact



Total Economic Impacts of Scottsdale Airport and Scottsdale Airpark



Jobs: 5,970 Number of full- and part-time persons employed



Earnings: \$320.2M
Total compensation paid to
workers including wages
and benefits



Economic Activity (Output): \$1.0B

Value of sales that occur in the Arizona economy that are ultimately attributable to airport activities



Chapter 2

Forecasts and Critical Aircraft Review





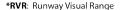
Exhibit 2K: Forecast Summary

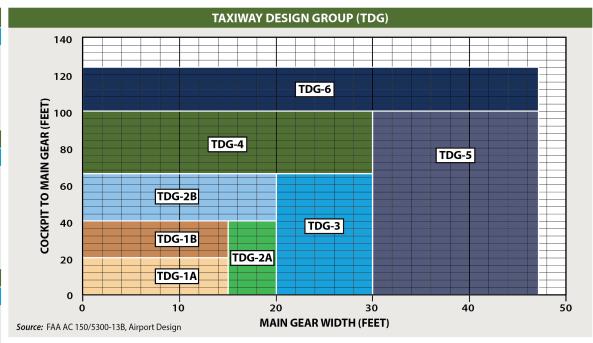
	BASE		FORECAST		CAGR
	2024	2029	2034	2044	2024-2044
ANNUAL OPERATIONS					
Air Taxi/Charter Operations (Itinerant)					
Air Taxi	66,178	80,903	98,906	147,818	4.10%
Total Air Taxi/Charter Operations	66,178	80,903	98,906	147,818	4.10%
General Aviation Operations					
Itinerant	64,608	70,812	77,019	89,636	1.65%
Local	35,478	39,267	43,460	53,238	2.05%
Total General Aviation Operations	100,086	110,079	120,479	142,874	1.80%
Military Operations					
Itinerant	320	365	365	365	0.66%
Local	4	2	2	2	-3.41%
Total Military Operations	324	367	367	367	0.63%
Total Itinerant Operations	131,106	152,080	176,290	237,819	3.02%
Total Local Operations	35,482	39,269	43,462	53,240	2.05%
TOTAL ANNUAL OPERATIONS	166,588	191,349	219,752	291,059	2.83%
ENPLANEMENTS					
Charter Enplanements	43,765	92,243	140,072	236,870	8.81%



Exhibit 2L: Aircraft Classification Parameters

	AIRCRAFT APPROACH CATEGORY (AAC)				
Category	Appr	oach Speed			
Α	less t	han 91 knots			
В	91 knots or more	but less than 121 knots			
C	121 knots or mor	e but less than 141 knots			
D	141 knots or mor	e but less than 166 knots			
E	166 k	nots or more			
	AIRPLANE DESIGN GROUP (ADG)				
Group #	Tail Height (ft)	Wingspan (ft)			
1	<20	<49			
II	20-<30	49-<79			
III	30-<45	79-<118			
IV	45-<60	118-<171			
V	60-<66	171-<214			
VI	66-<80	214-<262			
	VISIBILIT	Y MINIMUMS			
RVR* (ft)	Flight Visibi	ility Category (statute miles)			
VIS	3-mile or grea	ater visibility minimums			
5,000	Not lower than 1-mile				
4,000	Lower than 1-mile	Lower than 1-mile but not lower than ¾-mile			
2,400	Lower than $\frac{3}{4}$ -mile but not lower than $\frac{1}{2}$ -mile				
1,600	Lower than ½-mile	e but not lower than ¼-mile			
1,200	Lowe	er than ¼-mile			





- D-III-2B: Current operational critical aircraft because there are more than 500 annual operations. (Gulfstream V)
- D-II-2B: Current FAA approved critical aircraft. (Gulfstream IV)



Exhibit 2M: Aircraft Reference Codes

A-I	Aircraft	TDG	B-II over 12,500 lbs.	Aircraft	TDG	C/D-II	Aircraft	TDG	C/D-IV	Aircraft	TDG
NO.	Beech Bonanza Cessna 150, 172 Piper Comanche, Seneca	1A 1A 1A		Beech Super King Air 350 Cessna Citation CJ3(525B) Cessna Citation CJ4 (525C) Cessna Citation Latitude Embraer Phenom 300 Falcon 20 Pilatus PC-24	2A 2A 1B 1B 1B 1B 2A		Challenger 600/604 Cessna Citation III, VI,VII, X Embraer Legacy 135/140 Gulfstream IV (D-II) Gulfstream G280 Lear 70, 75 Falcon 50, 900, 2000 Hawker 800XP, 4000	1B 1B 2B 2A 1B 1B 2A 1B	C/D-V	• Airbus A300 • Boeing 757-200 • Boeing 767- 300, 400 • MD-11	5 4 5 6
B-I	• Eclipse 500 • Beech Baron 55/58 • Beech King Air 100 • Cessna 421 • Cessna Citation M2 (525) • Cessna Citation 1(500) • Embraer Phenom 100	1A 1A 1A 2A 1A 1A	A/B-III	Bombardier Dash 8 Bombardier Global 7500 Falcon 7X, 8X	3 2B 2A	C/D-III less than 150,000 lbs.	• Gulfstream V • Gulfstream 550, 600, 650 • Global 5000, 6000	2B 2B 2B	E-I	• Airbus A330-200, 500 • Airbus A340-500, 600 • Boeing 747-100 - 400 • Boeing 777-300 • Boeing 787-8, 9	6 5 6 5
A/B-II 12,500 lbs.	Beech Super King Air 200 Beech King Air 90 Cessna 441 Conquest Cessna Citation CJ2 Pilatus PC-12	2A 1A 1A 2A 2	C/D-I	• Lear 35, 40, 45 , 55, 60XR • F-16	1B 1A	C/D-III over 150,000 lbs.	• Airbus A319, A320, A321 • Boeing 737-800 , 900 • MD-83, 88	3 3 4	A CONTRACTOR		

Note: Aircraft pictured is identified in bold type.



FAA Approved Critical Aircraft D-II-2B



Aircraft Don't Operate at SDL



♦ Operational Critical Aircraft D-III-2B



- Current operational data confirms SDL is a D-III-2B airport. (3,600+ operations)
- Forecasts indicate it will remain a D-III-2B airport over the next 20-years.
- FAA approved D-II-2B as the critical aircraft because extensive previous analysis showed that it is not practicable to achieve full D-III design standards primarily because of the current runway/taxiway separation.
- Three Modification of Standards for airport design are approved at SDL to ensure an acceptable level of safety.
 - Runway to Taxiway Separation Distance
 - Runway Object Free Area Dimensions
 - Runway to Aircraft Parking Area



FAA Forecast/Critical Aircraft Approval



U.S. Department of Transportation Federal Aviation Administration

Federal Aviation Administration Phoenix Airports Field Office 3800 N Central Ave Suite 1025 Phoenix, AZ 85012

August 28, 2025

Rick Wielebski Aviation Director 15000 N. Airport Dr Suite 100 Scottsdale, AZ 85260

Dear Mr. Wielebski,

Scottsdale Airport (SDL) Aviation Activity Forecast Approval

The Federal Aviation Administration (FAA) has reviewed and approved the aviation forecast for the Scottsdale Airport (SDL) dated April 2, 2025 for use in the ongoing airport master plan study. Additionally, the FAA approves the use of D-II for both the existing and future critical aircraft. We found the forecast to be generally consistent with the 2024 TAF. It uses current data and is supported by generally accepted forecasting methodologies.

The approval of the forecast does not automatically constitute a commitment on the part of the United States to participate in any development recommended in the master plan update or shown on the ALP. FAA approval of the forecast does not constitute justification for future projects. Justification for future projects will be made based on activity levels at the time the project is requested for development, in accordance with criteria in FAA Orders 5090.5 and 5100.38. Documentation of actual activity levels meeting planning activity levels will be necessary to justify AIP funding for eligible projects. Further, the approved forecast may be subject to additional analysis if the fundamental rationale of the forecast changes materially.

Sincerely,

KYLER T ERHARD Digitally signed by KYLER T ERHARD Date: 2025.08.28 10:18:31 -07'00'



Airfield Considerations

1. Runway-to-Taxiway Separation

Currently, both parallel taxiways are 250 feet from the runway, centerline to centerline. Optimally, this distance would be 400 feet; however, this is not practicable. An FAA-approved Modification of Standards (MOS) that is in place indicates the existing condition provides an acceptable level of safety.

2. Runway Hold Line Location

The hold lines on the connecting taxiways are set at 152 feet from the runway centerline. The optimal location would be 250 feet from the runway centerline. Operationally, airport traffic control tower (ATCT) personnel consider the existing hold line location to be the safety critical demarcation line.

3. Runway Safety Area (RSA) Dimensions

Due to constraints beyond the runway pavement ends, declared distances are in place to provide an RSA that fully meets FAA design standards.

4. Runway Object Free Area (ROFA) Dimensions

Due to constraints to the width and length of a standard ROFA, an FAA-approved Modification of Standards (MOS) is in place that indicates the existing modified ROFA dimensions provide an acceptable level of safety.

5. Declared Distances

Declared distances are in place to meet various runway safety design standards and maximize available runway length to accommodate existing operations.



Airfield Alternative Considerations

6. Taxiway/Taxilane Separation and Aircraft Parking Apron

If two wide-wingspan aircraft pass by one another on Taxiway A and the main aircraft parking apron edge taxilane, there is a risk of the wingtips colliding. Several alternatives are considered to mitigate or remove this risk.

7. Taxiway Geometry

Several existing and future connecting taxiways are planned to be redesigned due to recent updates to the FAA's airport design guidance.

8. Runway Visual Aids

The existing two-light precision approach path indicator (PAPI-2L) system that serves each runway end should be upgraded to a four-light (PAPI-4L) system, as recommended in FAA guidance.

9. Runway Pavement Weight-Bearing Capacity

The runway weight-bearing capacity should be designed to accommodate the heaviest aircraft type that operates more than 500 times annually at the airport. The current weight-bearing capacity is up to 75,000 pounds for dual-wheel landing gear aircraft. The airport experiences more than 500 annual operations by business jets that exceed this weight; therefore, the weight-bearing capacity should be increased to accommodate the existing operations.

10. Next Generation of Business Jets

Several new models of business jets exceed the 100,000-pound limit for operation at the airport. There is no design standard safety reason to prohibit these business jets from operating at the airport. It is recommended that the airport consider allowing slightly heavier aircraft or aircraft up to 114,999-pounds to operate, in response to evolving business aviation needs. The primary concern is the potential for increased wear on runway pavement, which may shorten its useful life. However, this impact can be effectively managed through the airport's ongoing program of monitoring and routine maintenance.



Table 3H | Runway Design Standards

TABLE 3H Runway Design Standards	
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AIRPORT DATA	Runwa		
At a control of the c	Design Stand	<u>'</u>	
Airport Critical Aircraft	D-II		
Runway Design Code	D-II-5		
/isibility Minimums	1-m	nile	
RUNWAY DESIGN			
Runway Width	10		
Runway Shoulder Width	20/		
Blast Pad Length/Width (if provided)	150 x	120	
RUNWAY PROTECTION			
Runway Safety Area (RSA)			FAA Acceptable 400' Width
Vidth	500/		•
ength Beyond Departure End	1,0		for D-II
ength Prior to Threshold	60	0	
Runway Object Free Area (ROFA)			
Vidth	800/		FAA Approved MOS
ength Beyond Departure End	1,000/470 Runway 3 ²	1,000/500 Runway 21 ²	FAA Approved 1103
ength Prior to Threshold	60	0	
Runway Obstacle Free Zone (OFZ)			
Vidth	40	0	
Length Beyond End	20	0	
Approach Runway Protection Zone (RPZ)	Runway 3	Runway 21	
ength	1,700	1,700	
nner Width	500	500	
Outer Width	1,010	1,010	
Departure Runway Protection Zone (RPZ)	Runway 3	Runway 21	
ength	1,700	1,700	
nner Width	500	500	
Duter Width	1,010	1,010	
RUNWAY SEPARATION			
Runway Centerline to:			
Holding Position	250/	(152)	
Parallel Taxiway	300/ (250²)	FAA Approved MOS
Note: All dimensions are in feet. Values in () are actuals.			
When the standard RSA width of 500 feet is not practical, an	RSA width of 400 feet is permissible.		
Actual dimensions are based on FAA-approved Modification	of Standards.		

Source: FAA AC 150/5300-13B, Airport Design

Table 3J | Design Standard Differences

TABLE 3J | Design Standard Differences

Design Floment	Runway Desi	Currently Available	
Design Element	D-III-5000 ¹	D-II-5000 ²	D-II-5000
Runway to Taxiway Separation	400'	300'	250' ³
Holding Position	266'	250'	152'
Runway Safety Area Width	500'	400'	400'
Blast Pad Length & Width	200' x 140'	150' x 120'	150' x 120'

¹Operational critical aircraft

Source: FAA AC 150/5300-13B, Airport Design

²FAA-approved critical aircraft (August 28, 2025)

³FAA Modification of Standards (approved on January 3, 2019)



TABLE 4A | Runway/Taxiway Separation Standards

Design Floment	Runway Desig	Currently Available	
Design Element	D-III-5000 ¹	D-II-5000 ²	D-II-5000
Runway to Taxiway Separation	400'	300'	250' ³

¹Operational critical aircraft

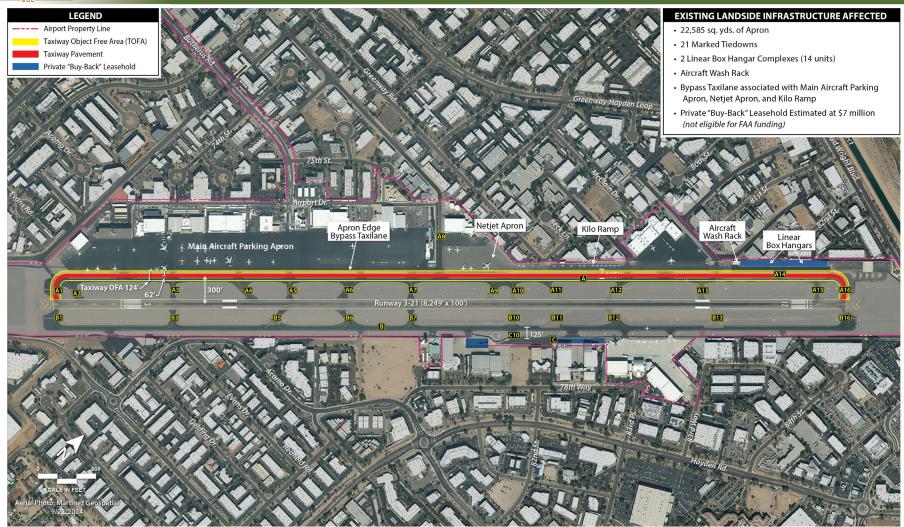
²FAA approved critical aircraft (8/28/2025)

³FAA modification of standard approved on 1/3/2019

Source: FAA AC 150/5300-13B, Airport Design

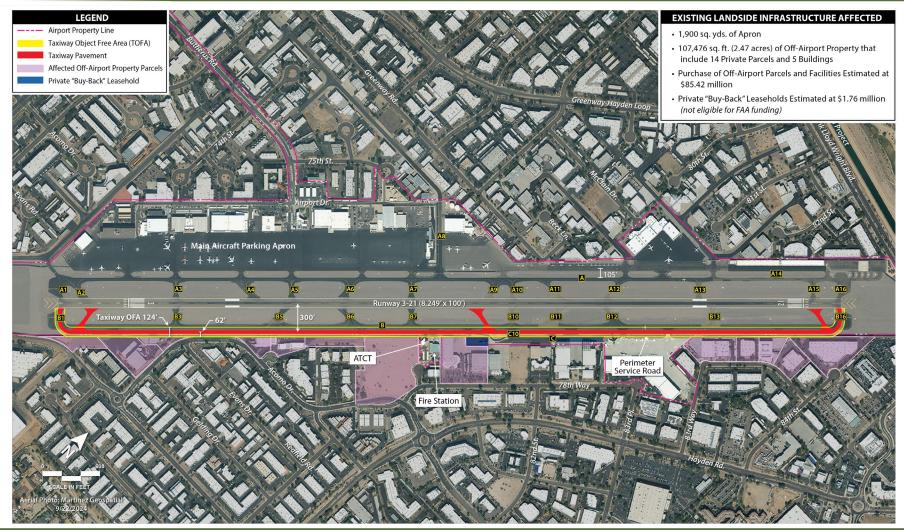


Ex 4C: Runway/Taxiway Separation Alternative 1- Shift Taxiway A to 300- Separation



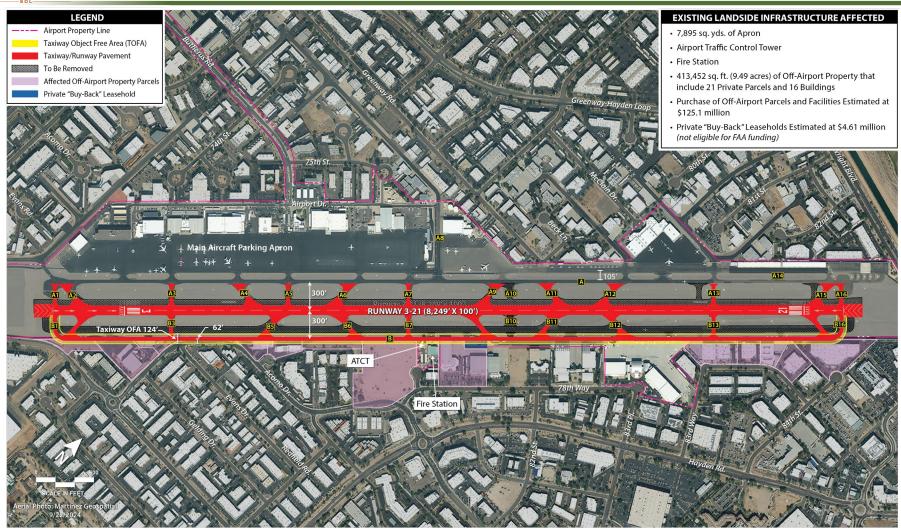


Ex 4D: Runway/Taxiway Separation Alternative 2- Shift Taxiway B to 300- Separation





Ex 4E: Runway/Taxiway Separation Alternative 3- Shift Runway 50' and Taxiway B AIRPORT MASTER PLAN





Ex 4F: Runway/Taxiway Separation Alternative 4- Shift Runway 50' and Taxiway A AIRPORT MASTER PLAN

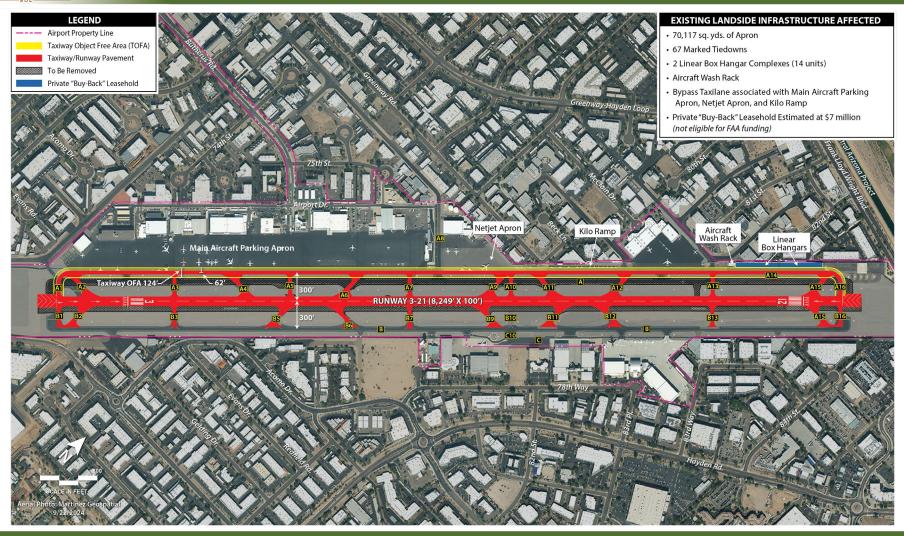




Table 4B | Runway/Taxiway Alternatives Impacts

	Alt 1 Exhibit 4C	Alt 2 Exhibit 4D	Alt 3 Exhibit 4E	Alt 4 Exhibit 4F
Description	Shift Twy A to 300'	Shift Twy B to 300'	Shift Rwy and Twy B	Shift Rwy and Twy A
Apron Area Impacted (s.y.)	22,585	1,900	7,895	70,117
Tie-Downs Removed	21	NA	NA	67
Hangar/Buildings Removed	14 box hangars	5 buildings	16 buildings	14 box hangars
Private Land Acquisition Cost	NA	2.47 acres/14 private parcels /\$85.42 million	9.49 acres/21 private parcels /\$125.1 million	NA
Leasehold Buy-Back Cost ¹	\$7 million	\$1.76 million	\$4.61 million	\$7 million
Other Impacts	Wash rack, taxilane, terminal apron, NetJets apron, Kilo apron	Service road	ATCT, ARFF, service road	Wash rack, taxilane, terminal apron, NetJets apron, Kilo apron
¹ Not eligible for FAA funding.				



Runway Hold Line Location

- Current hold line separation distance is 152' from the runway centerline.
- D-II/III-5000: Standard hold line distance is 250' from the runway centerline.

A Safety Risk Management Document (SRMD) was completed in 2013, to examine the feasibility of relocating the hold lines to either 200' or 250'. The panel included representatives from the airport, FAA Office of Runway Safety, FAA Airport District Office, FAA Flight Standards, FAA Western Quality Control Group, and others.

This group of airport and airspace professionals concluded that a hold line location change could not be introduced to the National Airspace System (NAS) with an acceptable level of risk.

The SRMD identified 9 risk hazards, 2 of which were considered high-risk and could not be mitigated. Therefore, the hold lines remained at 152' from the runway centerline.

- It is recommended that the hold lines remain at 152' until such a time that a new SRMD can be undertaken.
- The current hold lines define the runway environment for ATCT personnel at SDL. While the RSA typically defines the runway environment, operationally at SDL that limit is defined by the hold line location.

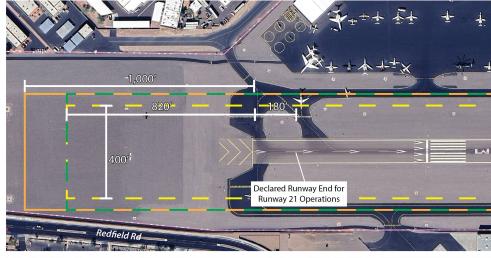


Ex 3D: Existing Runway Safety Surfaces and Declared Distances



SCOTTSDALE AIRPORT

Ex 3E: Runway Safety Area Detail











9/22/2024

 RSA meets the design standard because of the use of declared distances to provide 1,000' of RSA beyond the declared ends of the runway and by application of the permissible 400' wide RSA for D-II.

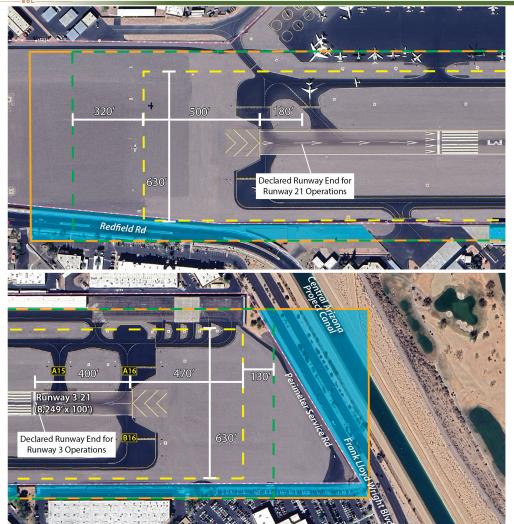


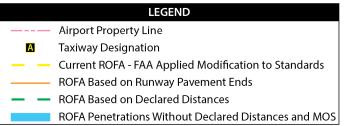
Ex 4G: ROFA Alternatives Modification of Standards





Ex 3F: Runway Object Free Area Detail







ROFA - Runway Object Free Area

The ROFA provides an acceptable level of safety as defined in an FAA approved modification of standards. The ROFA dimensions are:

- 630' wide (800' is standard)
- 470' beyond Rwy3 (1,000' is standard)
- 500' beyond Rwy 21 (1,000' is standard)



Table 4D | Taixway/Taxilane Separation Standards

TABLE 4D | Taxiway/Taxilane Separation Standards

Standards	ADG II	ADG III
Taxiway A to Apron Edge Taxilane	101.5	144.5
Taxiway Object Free Area (TOFA)	124	171
Taxilane Object Free Area (TLOFA)	110	158
Taxilane to Fixed/Movable Object	55	79
Existing Condition		
Taxiway A to Apron Edge Taxilane	105	NA
Apron Edge TLOFA	110	NA
Apron Edge Taxilane Centerline to Fixed/Movable Object	55	NA
Apron Edge to Aircraft Parking	72.5	NA
ADG III Standard		
Taxiway A to Apron Edge Taxilane Centerline	NA	144.5
Apron Edge TLOFA	NA	158
Apron Edge Taxilane Centerline to Fixed/Movable Object	NA	79
Apron Edge to Aircraft Parking	NA	136
ADG III Standard Modified ¹		
Taxiway A to Apron Edge Taxilane Centerline	NA	131.5
Apron Edge TLOFA	NA	145
Apron Edge Taxilane Centerline to Fixed/Movable Object	NA	72.5
Apron Edge to Aircraft Parking	NA	116.5
¹ See Appendix J, FAA AC 150/5300-13B, Airport Design. Modification b	pased on 105-foot wingspan.	



Table 4C | Airplane Design Groups

	Includes Wingspans Between:	Example Aircraft	Wingspan (feet)
		Cessna Citation V/Ultra/Encore	54.1
		Citation Sovereign	63.1
		Citation Latitude	72.3
ADG II	49'<79'	Citation X	63.6
		Challenger 350	68.9
		Embraer 145	65.8
		Falcon 900	63.4
	79'<118'	Gulfstream 500	87.1
		Gulfstream 550	93.5
		Gulfstream 600	95.0
		Gulfstream 650	99.6
ADC III		Gulfstream 700/800	103.0
ADG III		Global 5000/6000	94.0
		Global 7500	104.3
		Global 8000	104.0
		Falcon 8X	86.4
		Falcon 10X	110.4
ADG: Airpl	ane Design Group		



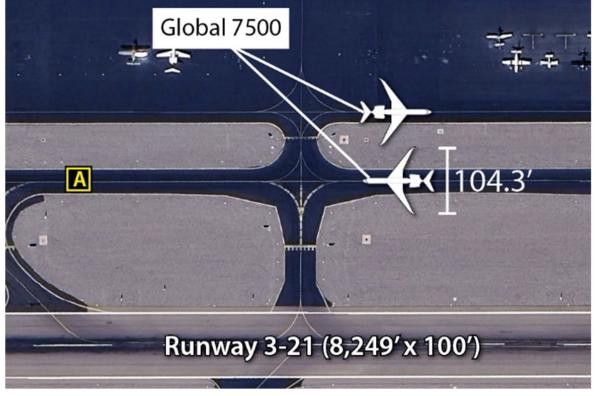
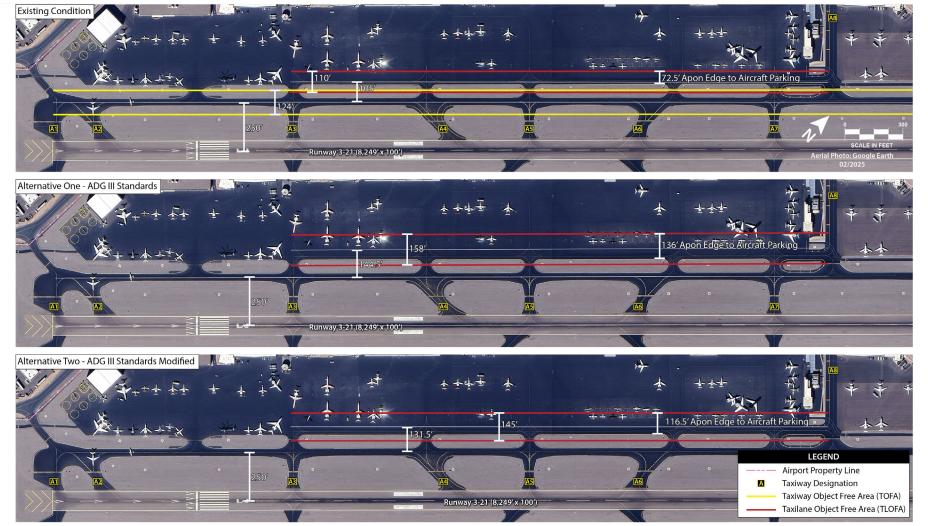


Figure 4-1: Taxiway A and Apron Edge Taxilane in Simultaneous Use by Two Global 7500 Aircraft



Ex 4H: Apron Edge Taxilane Alternatives





Ex 4H: Apron Edge Taxilane Alternatives

Taxiway A and the apron edge taxilane are 105' apart, centerline to centerline. This exceeds the ADG II standard of 101.5' but is less than the ADG III standard of 144.5'. The taxiway wingtip safety margin for ADG II is 22.5' and for ADG III is 26.5'.

- 1. Meet ADG III Separation Standards (144.5' separation): Loss of 63.5 feet of parking apron depth above what is available now.
- 2. Modify ADG III Separation Standards (131.5' separation): Loss of 44 feet of parking apron depth above what is available now.
- 3. Remove Apron Edge Taxilane: Gain of 72.5 feet of parking apron depth.
- 4. Letter of Agreement with ATCT: Prohibit greater than 100' wide wingspans on the apron edge taxilane.



Table 3T | Aircraft Parking Apron

TABLE 3T | Aircraft Parking Apron

Factor	Current Need	Short Term	Intermediate Term	Long Term
Busy Day Operations	531	567	586	623
Percentage of Itinerant Operations	79%	79%	80%	82%
Busy Day Itinerant Operations	418	451	470	509
Multiplier (% on ground at once)	35%	35%	35%	35%
Total Itinerant Aircraft Positions	146	158	165	178
Piston Aircraft Positions	29	32	33	36
Turbine Aircraft Positions	117	126	132	143
Total Itinerant Apron Area (sy):	210,600	227,100	236,900	256,600

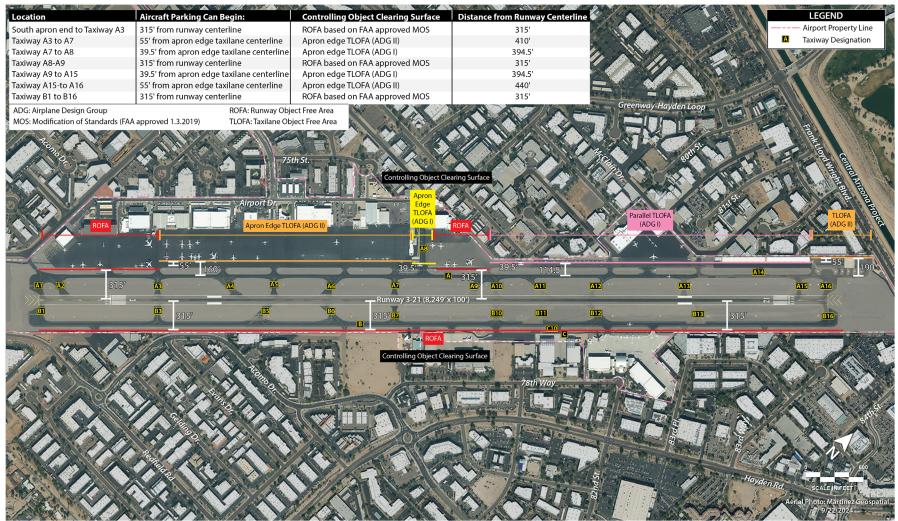
sy = square yards

Note: 800 sy per small plane; 1,600 sy per large plane

Estimated public apron space available: 189,000 s.y. Total apron needed over the next 30-years: 67,600 s.y.



Ex 3G: Aircraft Parking Areas





Ex 3H: Taxiway Design Considerations





Ex 4J: Taxiway Alternatives



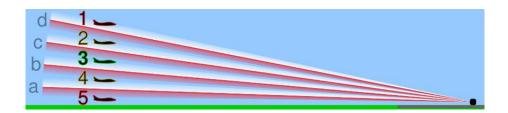
Runway Visual Aids

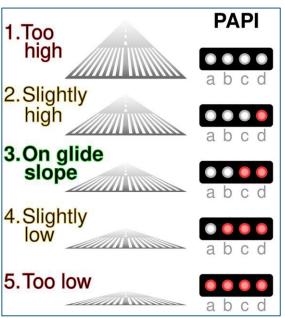
Airports with a significant level of business jet activity should have certain visual approach aids.

Precision approach path indicator lights (PAPI) and runway end identification lights (REILS).

Both ends of the runway are equipped with REILS. Both ends of the runway are equipped with 2-box PAPIs. Airports with high levels of business jet activity should have a 4-light PAPI system.

It is recommended that the PAPI-2L system be upgraded to the PAPI-4L system. Adequate space between the runway and taxiway is available.







Airplane Design Groups

ADG	Includes Wingspans Between:	Example Aircraft	Wingspan (feet)	MTOW
		Cessna Citation V/Ultra/Encore		16,300
		Citation Sovereign	63.1	30,300
		Citation Latitude	72.3	30,800
ADG II	49' < 79'	Citation X	63.6	36,100
		Challenger 350	68.9	40,600
		Embraer 145	65.8	53,100
		Falcon 900	63.4	49,000
		Gulfstream 500	87.1	90,500
		Gulfstream 550	93.5	73,200
		Gulfstream 600	95.0	76,800
		Gulfstream 650	99.6	90,500
		Gulfstream 700	103.0	107,600
ADG III	79' < 118'	Gulfstream 800	103.0	105,600
		Global 5000	94.0	78,600
		Global 6000	94.0	99,600
		Global 7500	104.3	106,250
		Global 8000	104.0	104,800
		Falcon 8X	86.4	73,000
ADG: Airpla	ne Design Group; MTOW: N	Лахітит Takeoff Weight		



Table 4E | Runway Weight Bearing Capacity

Current weight bearing capacity:

- 45,000 lbs. single-wheel landing gear (S)
- 75,000 lbs. dual wheel landing gear (D)

The weight bearing capacity is not a limit or maximum. It is an indicator that repeated use by aircraft exceeding this weight may reduce the useful life of the pavement. It is the responsibility of the airport to preserve the useful life of federal capital investment such as runway rehabilitation projects.

- At SDL, aircraft up to 100,000 lbs. MTOW can operate when they file the prior permission required (PPR) documentation.
- Aircraft with a MTOW above 100,000 lbs. are currently prohibited.
- In 2024, there were approximately 1,700 operations by aircraft that have a MTOW greater than 75,000 pounds.

The airport is experiencing increasing levels of activity by aircraft with greater than 75,000 lbs. MTOW. It is recommended that the runway have at least a 100,000 lb. weight bearing capacity to accommodate the current mix of aircraft operating at the airport.



TABLE 4E Next Generation Business Jet Details						
Aircraft	Length	Wingspan	MTOW			
Gulfstream 700	109'10"	103'	107,600 lbs.			
Gulfstream 800	99'9"	103'	105,600 lbs.			
Global 7500	109'7"	110'4"	115,000 lbs.			
Global 8000	102'	104'	104,800 lbs.			
MTOW: Maximum takeoff weight						

- These next generation business jets are currently prohibited from operating at SDL because they are over 100,000 lbs. MTOW.
- Heavier business jets may reduce the useful life of the pavement.
- Those business jets under 100,000 lbs. have wingspans less than 100' but the newer business jets have wingspans greater than 100'.
- Analysis of separation distances on the airfield indicates that an additional 4' of wingspan of these next generation business jets would have no impact on the design standards. An acceptable level of safety would be maintained.



Ex 3J: Airside Facility Summary

		EXISTING	FUTURE
PORT DATA	Critical Aircraft	D-II-2B	Maintain
	Runway Design Code	D-II-26 D-II-5000	Maintain Maintain
THERE	, 3	1-Mile	
NWAY 3-21	Visibility Minimums	I-Mile	Maintain
1	Length x Width	8,249' x 100'	Maintain
	Pavement Weight Bearing Capacity	45,000 lbs. (S) / 75,000 lbs. (D)	Consider increase
MEN CHARLESCORE OF THE PARTY OF	Shoulders	10'	Maintain
	Declared Distances	Yes	Review declared distances to maximize length
	Hold Lines	152' from runway centerline	Evaluate hold line separation
	RSA	400' feet wide/1,000' beyond ends	Maintain
	ROFA	630' wide/470' behind Rwy 21/500' behind Rwy 3	Maintain MOS
	OFZ	400' wide/200' beyond ends/Meets Standard	Maintain
	RPZ	Some incompatible land uses	Remove incompatible land uses if feasible
VAYS/APRONS		Some meompatible land uses	nemove incompanie fana ases in reasiste
	Width	40'-50'	Maintain existing width
Biometer Biometer	Taxiway Geometry	High energy crossings, direct access, angled taxiways	Evaluate each taxiway and plan to reconstruct to currer
THE THE THE			recommendations, including fillet design
-7	Runway/Taxiway Separation	250'	Maintain MOS
-	Holding Aprons	Four hold aprons	Maintain
	Aircraft Parking Areas	Terminal, NetJets, Signature East + West	Maximize aircraft parking apron
	Taxilanes	Parallel taxilanes/Apron edge taxilanes	Evaluate separation distance
GATION AND APPROACH AIDS			
	Control Tower	ATCT constructed in 1989	FAA to consider replacement
	Weather Equipment	ASOS	Maintain
	Windsocks	Two (one lighted)	Add windcone to south end of airfield
1.0	Visual Approach Aids	PAPI-2L	Upgrade to PAPI-4L
The second secon		REILs	Maintain
	Instrument Approach Procedures	Circling and RNP	Consider SRMP for straight-in GPS Approach
ING, MARKING, AND SIGNAGE			
	Universal Beacon	Rotating Beacon	Maintain
	Runway Edge Lighting	MIRL	Maintain
The state of the s	Taxiway Edge Lighting	MITL	Maintain
497	Runway Markings	Non-precision markings	Maintain
	Hold Bar Location	152' from Runway centerline	Maintain
	Signage	Lighted airfield signs	Maintain
	Distance Remaining Signs	Distance remaining signs	Maintain

ATIS - Automated Terminal Information System

ATCT - Airport Traffic Control Tower

D - Dual Wheel Landing Strut

GPS - Global Positioning System

MITL - Medium Intensity Raxiway Lighting

PAPI - Precision Approach Path Indicator

REIL - Runway End Identification Lighting

RDC - Runway Design Code

S - Single Wheel Landing Strut

SRMP - Safety Risk Management Panel

OFZ - Runway Obstacle Free Zone

RPZ - Runway Protection Zone



Ex 3K: Landside Facility Summary

	CURRENTLY AVAILABLE	20-YEAR PROJECTED NEED	DIFFERENCE
Aircraft Hangar Needs	Approx. 500,000 s.f	Approx 894,000 s.f.	394,000 s.f.
Aircraft Parking Apron Needs	189,000 s.y.	256,600 s.y.	67,600 s.y.
Terminal Service Needs	17,000 s.f.	21,500 s.f.	4,500 s.f.
Public Auto Parking	More needed currently	Consider parking structure/Construct parking with each new hangar	
Fuel Storage Capacity			
Jet A AvGas 100LL	178,000 gal. 58,100 gal.	Based on FBO Needs	
Perimeter Fencing	Chain-link fencing with barbed wire, various walls	Maintain full perimeter fencing and walls	
Maintenance Facilities	Airport Operations Center	Maintain	
Wash Racks	One public	Maintain	
ARFF Facility	On-airport	Maintain	



Ex 4K: Potential Property Acquisition









Figure 4-2: Potential Locations for New Hangars

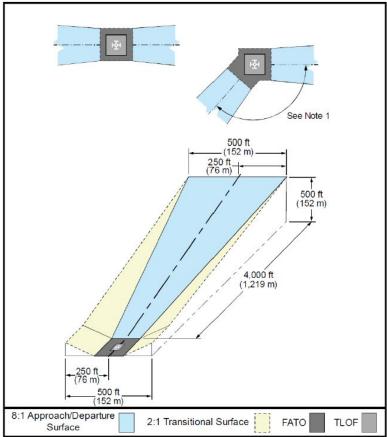




Figure 4-3: Potential Surface or Structured Vehicle Parking



Figure 4-4 | Vertiport Design Standards



Note 1: The preferred approach/departure surface is based on the predominant wind direction. Where a reciprocal approach/departure surface is not possible in the opposite direction, use a minimum 135-degree angle between the two surfaces.

Figure 4-4: Vertiport Design Considerations

- Vertiport/Heliports are generally installed to enhance safety for arrivals and departures.
- Require reserved landing areas and airspace.
- Can be limiting to helicopter operations because of the need to arrive/depart from a single location then hover taxi to their destination apron/hangar.
- Most helicopter operators prefer to fly to and from an apron area near their hangar/terminal facility.
- There is no FAA trigger for the installation of a vertiport/heliport.
- Generally, when warranted, they should be in proximity to a common destination, like a terminal or hangar.
- A vertiport/heliport is not required at this stage. The need and/or design for one should be monitored on an on-going basis.



WE WANT TO HEAR FROM YOU!

Direct any questions or comments after this meeting to Coffman Associates team members

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or visit the project website to submit comments online.

https://scottsdale.airportstudy.net





NEXT STEPS







Development Concept, Capital Improvement Program