



Developing a Vision for the Future

Skylark Field – Killeen, TX Airport Master Plan



Skylark Field



Project Team and Committees
The Master Plan Components
Airport Inventory
Aviation Demand Forecasts
Facility Requirements
Alternatives



Skylark Field Master Plan Consulting Team



Aviation Planning



**Airport Financial
Planning**



**Commercial Real Estate
Evaluation**



Collaboration and Input

➤ Executive Committee



- Mayor Scott Casper
- Matthew Van Valkenburgh
- Jim Livingston
- Mike Wilson
- Charlotte Hitchman



- Michelle Hannah



Collaboration and Input

➤ Project Steering Committee

- Reggie Bass (Pilot Tenant)
- Bob Harmon (Pilot Tenant)
- Kyle Keeling (Business Tenant)
- Curtis Gibson (Central TX College)
- Rick Whitesell (Central TX College)
- Charlie Watts (Killeen EDC)
- Gina Pence (HH Chamber)



Collaboration and Input

Public Involvement

- Executive Committee
- Project Steering Committee
- Open House Meetings
 - Tenants
 - Public
- City Council Briefings

Tenant and Public Open House

June 11, 2015

- Formal Presentation
- Q&A
- Displayed Exhibits
- Recorded Verbal Comments
- Comment Cards



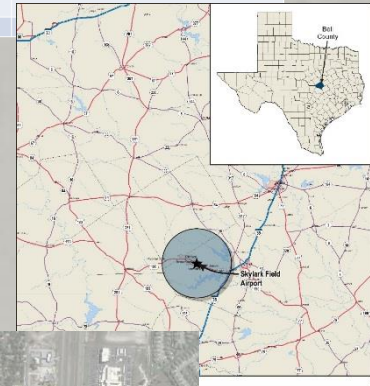
Master Plan Components



Airport Inventory

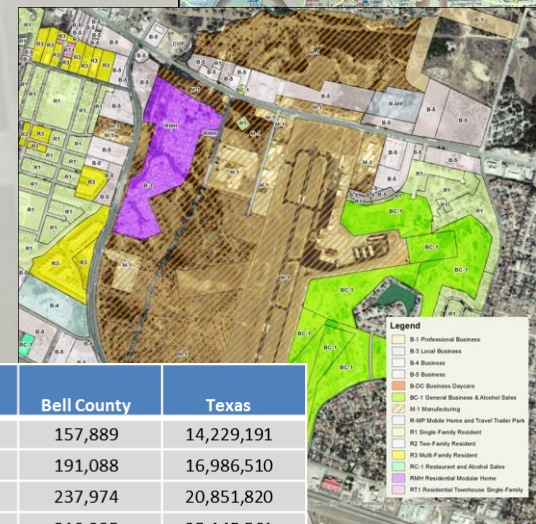
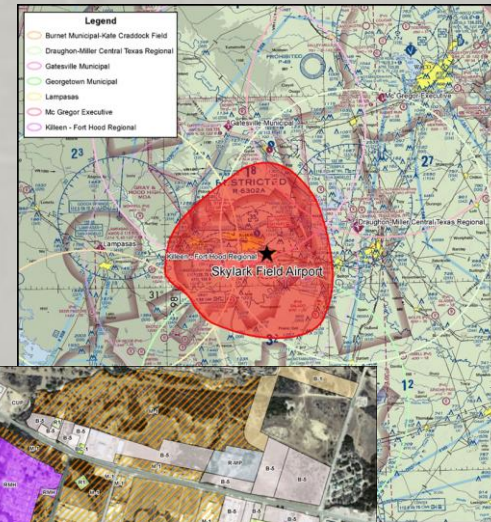
- SWOT Analysis
- Airport Location
- Development History
- Airport Facilities
- Former Commercial Terminal Evaluation

Year	Local Total	State Total	Federal Total	Funding Total	Project Description
2009	\$10,422		\$209,542	\$219,964	Engineering for south apron (19,800 SF); Mill, replace / mark apron (200x1300); Reconstruct pavement for southeast T-hanger (400x9); Drainage improvements for southeast T-hanger; Install main open underdrain (5000); Rehabilitate TW B (10,700 sq); Mill / replace Runway 1/19 (5495' x 100'); Mark Runway 1/19 (82,400 SF); Rehabilitate / mark parallel and stub taxiways (48,000); Replace MTL (6500 SF)
2009	\$4,622	\$4,622		\$9,244	RAMP: Purchase airfield lighting parts and contract for herbicide and pesticide application; purchase striping paint and beads; storm water consultant professional service; erosion control; security camera maintenance; perimeter fencing; additional cameras.
2010	\$5,158	\$5,158		\$10,316	RAMP: Paint and leads for apron markings and touch-up of runway, taxiway and markings; airfield lighting; fuel farm, hanger, and fence/gate repair/maintenance; herbicide/pesticide; erosion control; environmental compliance; security camera maintenance.
2010	\$270,227		\$2,432,040	\$2,702,267	Mark Runway 1/19 (82,400 SF); Install main open underdrain (300 LF); Rehabilitate and mark parallel and stub taxiways (48,000 SF); Replace MTL (6500 SF); Reconstruct pavement southeast T-hanger (400x9); Rehabilitate Taxiway B (10,700 SF); Mill and replace south apron (19,800 SF); Mill and replace Runway 1/19 (5495' x 100'); Mill, replace and mark apron (200' x 1300'); Drainage improvements southeast T-hanger. SBGP-2010-70 \$2,432,040 ARRA Funds
2011	\$11,961	\$11,961		\$23,922	RAMP: Perform airport general maintenance
2012	\$6,369	\$6,369		\$12,738	RAMP: Contract for airport general maintenance projects.
2012	\$186,203		\$600,000	\$786,203	Design Contract for 807 Hanger (RFP 10-111) SBGP-2009-57 \$384,004; SBGP-2011-72 \$113,578; SBGP-2010-67 \$102,422
2013	\$3,662	\$3,662		\$7,324	RAMP: Airport general maintenance.
2013	\$25,900	\$0	\$233,100	\$259,000	Airport Master Plan Update
Total (2009-2014)	\$498,624	\$31,772	\$3,241,582	\$3,797,878	
Total	\$2,323,546	\$167,773	\$11,319,317	\$13,836,536	



Airport Inventory

- Operating Environment
- Service Area
- Local Land Use Planning and Zoning
- Local/Regional Socioeconomics



Historical Growth	Killeen	Harker Heights	Copperas Cove	Bell County	Texas
1980	46,296	7,600	24,519	157,889	14,229,191
1990	63,535	12,841	24,079	191,088	16,986,510
2000	86,911	17,308	29,592	237,974	20,851,820
2010	127,921	26,700	32,032	310,235	25,145,561
Annual Growth Rate	2.13%	2.38%	0.78%	1.64%	1.45%
Forecast Growth					
2020	153,371	32,012	36,989	371,956	29,510,184
2030	177,572	37,064	42,384	430,647	33,628,653
2040	203,934	42,566	48,207	494,582	37,736,338
Forecast Annual Growth Rate	1.24%	1.24%	1.16%	1.24%	1.09%



Aviation Demand Forecasts

Based Aircraft By Type Plus Hangar Waiting List					
Year	2015	2020	2025	2030	2035
Single-Engine Piston	55	64	66	67	69
Multi-Engine Piston	2	3	3	2	2
Turbo-Prop	1	2	3	3	3
Turbo-Jet	0	0	1	2	2
Helicopter	2	2	3	4	5
Total	60	71	75	78	81
Operations					
Year	2015	2020	2025	2030	2035
Single-Engine Piston	21,750	22,740	23,350	25,150	26,760
Multi-Engine Piston	2,020	2,090	2,110	2,260	2,350
Turbo-Prop	3,300	3,500	3,590	3,960	4,200
Turbo-Jet	1,920	2,030	2,100	2,630	2,750
Helicopter	460	490	500	550	590
Military	250	250	250	250	250
Local Operations	18,200	18,700	19,700	20,300	21,600
Itinerant Operations	12,900	13,200	14,000	14,500	15,300
Total	31,100	31,900	33,700	34,800	36,900



Facility Requirements

➤ Runway 01-19

- Design Standards
- Lighting and Marking

Item	Runway 01/19 (B-II)	FAA Design Standard (B-II Not Lower than ¾-mile vis. Min.)
Runway Design		
Width (ft)	100	75
RSA Width (ft)	150	150
RSA Length beyond R/W end (ft)	100/300	300/300
Runway Setbacks -Runway Centerline to:		
Parallel Taxiway (ft)	305	240
Centerline (ft)		
Taxiway Design		
Width (ft)	50/60	35



Facility Requirements

➤ Landside Facilities

Facility	2015	Phase 1 (0-5 Years)	Phase 2 (6-10 Years)	Phase 3 (11-20 Years)
Based Aircraft	60	72	77	83
Annual Operations	31,100	31,900	33,700	36,900
Terminal Building				
Public Use Space	2,100 ft ²	2,600 ft ²	3,000 ft ²	3,600 ft ²
Lease Use Space	<u>1,400 ft²</u>	<u>1,700 ft²</u>	<u>1,900 ft²</u>	<u>2,300 ft²</u>
Total Building Space	3,500 ft ²	4,300 ft ²	4,900 ft ²	5,900 ft ²
Paved Auto Parking				
Auto Parking Spaces	44	51	58	70
Aircraft Parking Apron				
Based Apron	27,600 yd ²	28,400 yd ²	29,300 yd ²	30,400 yd ²
Itinerant Apron	61,400 yd ²	66,800 yd ²	72,500 yd ²	84,600 yd ²
Hangars				
T-Hangars	51,000 ft ²	63,300 ft ²	66,500 ft ²	70,800 ft ²
Executive/Corporate	<u>37,800 ft²</u>	<u>41,885 ft²</u>	<u>55,900 ft²</u>	<u>78,300 ft²</u>
Total Hangar Demand	88,800 ft ²	105,185 ft ²	122,400 ft ²	149,100 ft ²



Preferred Airside Alternative



**Recommend
STATUS QUO
(no runway expansion)**

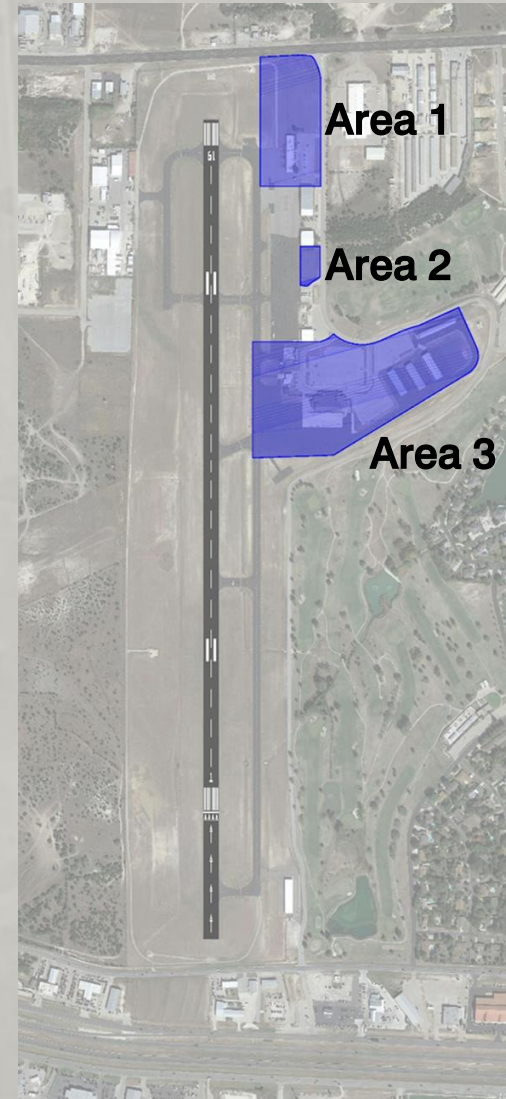


Preferred Landside Alternatives

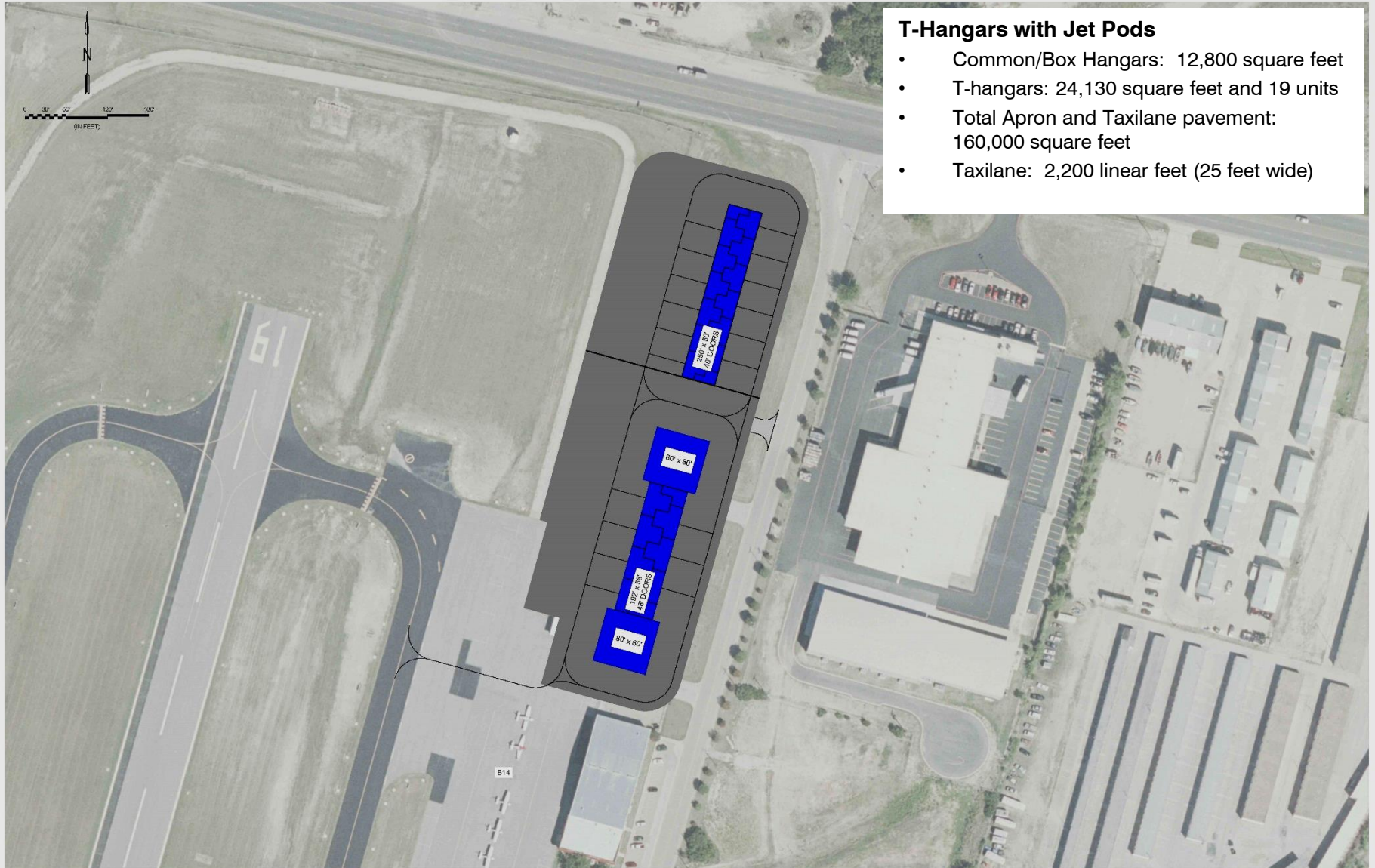
Three Future Development Areas

Number of alternatives considered

- Area 1 = Three alternatives
- Area 2 = Three alternatives
- Area 3 = Five alternatives



Area 1 – Preferred Development



T-Hangars with Jet Pods

- Common/Box Hangars: 12,800 square feet
- T-hangars: 24,130 square feet and 19 units
- Total Apron and Taxilane pavement: 160,000 square feet
- Taxilane: 2,200 linear feet (25 feet wide)

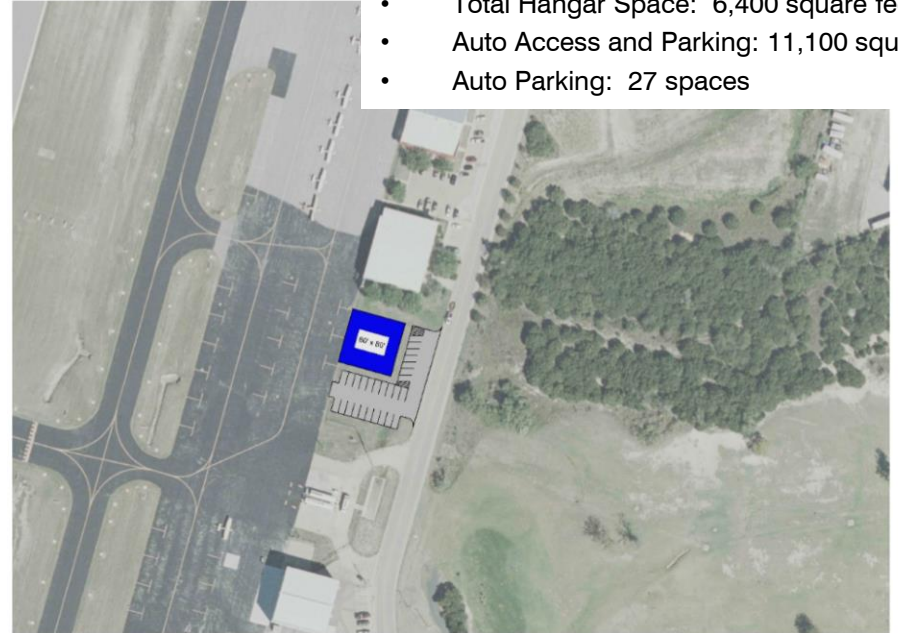
Area 1 – Preferred Development



Area 2 – Preferred Development

One Common Hangar

- Total Hangar Space: 6,400 square feet
- Auto Access and Parking: 11,100 square feet
- Auto Parking: 27 spaces



Area 3 – Preferred Development



Next Steps





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