



Sequoia Field Airport: Airport Layout Plan and Status Update

Presented by the
Tulare County Resource Management Agency
October 22, 2019



Overview of Presentation

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1. Airport Layout Plans (ALP)
2. Proposed ALP
3. Airport Capital Improvement Program (ACIP)
4. Navigation Aids Project
5. Project Funding
6. Other Airport Uses
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8. Questions, Comments, Discussion



Airport Layout Plans (ALP)

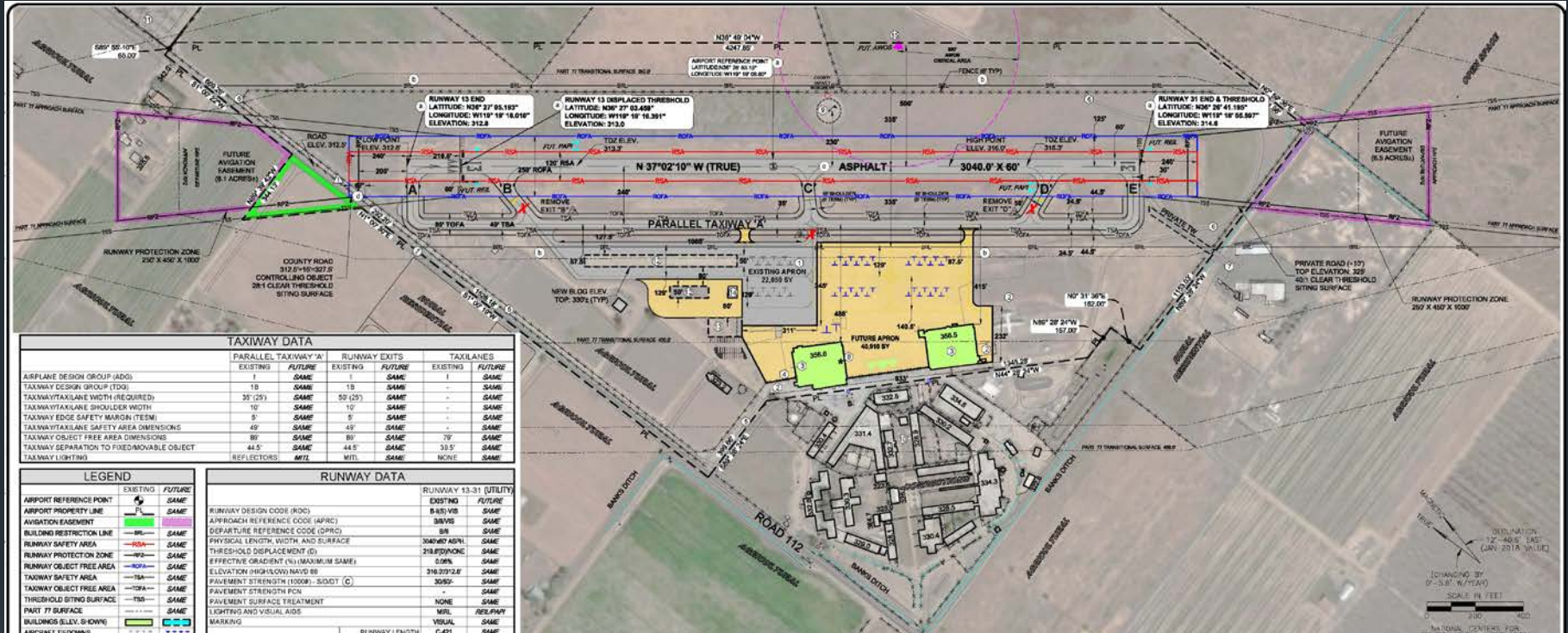
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■ Airport Layout Plans (ALP)

- Planning tool that depicts both existing facilities and planned development
- Airport improvements must follow ALP
- ALP must show various regulatory boundaries
- Used to prepare annual federal and biennial state Airport Capital Improvement Program (ACIP)
- ALP & ACIP used by FAA & Caltrans to allocate grant money to airports



Proposed ALP



| | PARALLEL TAXIWAY 'A' | | RUNWAY EXITS | | TAXILANES | |
|---|----------------------|--------|--------------|--------|-----------|--------|
| | EXISTING | FUTURE | EXISTING | FUTURE | EXISTING | FUTURE |
| AIRPLANE DESIGN GROUP (ADG) | 1 | SAME | 1 | SAME | 1 | SAME |
| TAXIWAY DESIGN GROUP (TDG) | 30 | SAME | 15 | SAME | - | SAME |
| TAXIWAY TAXILANE WIDTH (REQUIRED) | 30' (25') | SAME | 50' (25') | SAME | - | SAME |
| TAXIWAY TAXILANE SHOULDER WIDTH | 10' | SAME | 10' | SAME | - | SAME |
| TAXIWAY EDGE SAFETY MARGIN (ESM) | 5' | SAME | 5' | SAME | - | SAME |
| TAXIWAY TAXILANE SAFETY AREA DIMENSIONS | 40' | SAME | 40' | SAME | - | SAME |
| TAXIWAY OBJECT FREE AREA DIMENSIONS | 80' | SAME | 80' | SAME | 70' | SAME |
| TAXIWAY SEPARATION TO FIXED/MOVABLE OBJECT TAXIWAY LIGHTING | 44.5' | SAME | 44.5' | SAME | 30.5' | SAME |

| | LEGEND | | RUNWAY DATA | | RUNWAY 13-31 (UTILITY) | |
|---------------------------|----------|--------|---|--------------|------------------------|--------------|
| | EXISTING | FUTURE | EXISTING | FUTURE | EXISTING | FUTURE |
| AIRPORT REFERENCE POINT | SAME | SAME | RUNWAY DESIGN CODE (RDC) | 13/31 | 13/31 | 13/31 |
| AIRPORT PROPERTY LINE | SAME | SAME | APPROACH REFERENCE CODE (APRC) | 13/31 | 13/31 | 13/31 |
| AVIATION EASEMENT | SAME | SAME | DEPARTURE REFERENCE CODE (DPRC) | 13/31 | 13/31 | 13/31 |
| BUILDING RESTRICTION LINE | SAME | SAME | PHYSICAL LENGTH, WIDTH AND SURFACE | 3040' X 60' | 3040' X 60' | 3040' X 60' |
| RUNWAY SAFETY AREA | SAME | SAME | THRESHOLD DEPLOYMENT (D) | 218.0' | 218.0' | 218.0' |
| RUNWAY PROTECTION ZONE | SAME | SAME | EFFECTIVE GRADIENT (%) (MAXIMUM SAME) | 0.0% | 0.0% | 0.0% |
| RUNWAY OBJECT FREE AREA | SAME | SAME | ELEVATION (HIGHEST/LOWEST NAVD 83) | 316.0/214.0' | 316.0/214.0' | 316.0/214.0' |
| TAXIWAY SAFETY AREA | SAME | SAME | PAVEMENT STRENGTH (1000R) - SLOTT (C) | 3005' | 3005' | 3005' |
| TAXIWAY OBJECT FREE AREA | SAME | SAME | PAVEMENT STRENGTH PCL | NONE | NONE | NONE |
| THRESHOLD SITING SURFACE | SAME | SAME | PAVEMENT SURFACE TREATMENT | NONE | NONE | NONE |
| PART 77 SURFACE | SAME | SAME | LIGHTING AND VISUAL AIDS | MRL | MRL | MRL |
| BUILDINGS (BY SHOWN) | SAME | SAME | MARKING | ASPHALT | ASPHALT | ASPHALT |
| AIRPORT FLOODING | SAME | SAME | RUNWAY LENGTH | 3040' | 3040' | 3040' |
| FENCE (EXISTING & TYP) | SAME | SAME | PAVEMENT STRENGTH | 3005' | 3005' | 3005' |
| LIGHTING | SAME | SAME | WINSPAN | 42' | 42' | 42' |
| WIND CONE | SAME | SAME | MAX. TAKEOFF WEIGHT | 19' | 19' | 19' |
| ROTATING BEACON | SAME | SAME | VISUAL | SAME | SAME | SAME |
| MARKS | SAME | SAME | INSTRUMENT APPROACH TYPE/ CATEGORY | 13 | 13 | 13 |
| APPLIED PAVEMENT | SAME | SAME | RUNWAY FAR PART 77 CATEGORY | 13 | 13 | 13 |
| GROUND CONTOURS | SAME | SAME | VISIBILITY MINIMUMS | 13 | 13 | 13 |
| SECTION CORNER | SAME | SAME | APPROACH SLOPE - REQUIRED/CLEAR (R/W 13 THRESHOLD IS CLEAR 28' 1) | 13 | 13 | 13 |

| FACILITY DATA | |
|--------------------------------------|-----|
| DESCRIPTION | E F |
| 1 AIRPORT TIEDOWN AREA | • • |
| 2 CONCRETE SLABS | • • |
| 3 CONVENTIONAL HANGAR | • • |
| 4 AUTO PARKING | • • |
| 5 ACCESS ROAD | • • |
| 6 SERVICE ROAD | • • |
| 7 AERIAL OPERATION (THRU THE FENCE) | • • |
| 8 ROTATING BEACON | • • |
| 9 REDUNDANT CIRCULATING CONE | • • |
| 10 SEDIMENT HOLE (OOL CENTER) | • • |
| 11 SHERIFF DETENTION FACILITY | • • |
| 12 AIRCRAFT HANGARS | • • |
| 13 FIXED BASE OPERATION | • • |
| 14 FUEL TANK | • • |
| 15 AVION | • • |
| 16 SEE SHEET 5 FACILITY PENETRATIONS | • • |

ALP NOTES

- Airport coordinates & elevations field surveyed (June 2016). Coordinates shown are NAD83 and elevations are NAVD83.
- Building Restriction Line (BRL) is based on a maximum structure height of 35 feet and 200 foot wide primary surface to protect for "large" aircraft.
- Runway pavement strength was obtained from FAA Airport/Facility Directory (10 April 2008).
- A portion of Road 112 and the adjacent fence are located within Runway 13-31 Object Free Area.
- This Airport is within Zone 3 per FIRM map number 0610700030. Effective date: June 16, 2009.
- No site specific data is available. Wind data from Visalia Municipal Airport (KVB), is shown on the site sheet.
- Grass Airport property is 117.30 acres. Star Airport property is 115.54 acres. See Exhibit "A".
- This set of drawings is for facility purposes only, and shall not be used for flight planning, flight obstruction analysis, flight operations (takeoff or landing) or navigation.

FAA APPROVAL

SUBMITTED BY: _____

By: County of Tulare Date: _____

| ITEM | DESIGN | NON-STANDARD CONDITION | PROPOSED ACTION |
|------------------|---|------------------------------------|--|
| ROFA | CLAS. OBJECT FOR AIR NAVIGATION (ON AIRPORT) BACKSCATTERING PURPOSE | ROAD 112 LOCATED IN AREA 11 | NO CHANGE - REQUEST REGISTRATION OF FUTURE PROVISION |
| TAXIWAY GEOMETRY | RIGHT ANGLED EXITS | ADJ. ANGLED EXITS | REVIEW NON-STANDARD DATA |
| INDIRECT ADDRESS | INDIRECT ADDRESS FROM RUNWAY TAXIWAY | DIR. ACCESS FROM RUNWAY TO TAXIWAY | CONTRACT FOR NEW SIGN CONSTRUCTION |

| AIRPORT DATA | |
|--|-------------|
| EXISTING | FUTURE |
| AIRPORT REFERENCE CODE CATEGORY (ARC) | 13/31 |
| ELEVATION (NAVD 83) | 316.0' |
| MEAN MAX. TEMP. (HOTTEST MONTH) - CLOSEST US COOP STATION | 97.5 (JULY) |
| AIRPORT REFERENCE POINT (ARP) | 3040' X 60' |
| COORDINATES (NAD 83) UTM | 117 21 144 |
| NAVIGATIONAL AIDS | 3.72 |
| OPIS APPROACH ESTABLISHED | NO |
| INFLUX SERVICE LEVEL | NO |
| CALIFORNIA AIRPORT CLASSIFICATION ROLE | COMMUNITY |
| DESIGNATED AIRPORT ACREAGE (FEE SIMPLE / EASEMENT) (C) | 117.2 / 144 |
| AIRCRAFT TIEDOWNS | 102 |
| AIRCRAFT HANGARS (INDIVIDUAL HANGAR UNITS / LARGE HANGARS) | 3 / 2 |

COUNTY OF TULARE

12-31-18

AWOS: 03/2019

| | | |
|--|------------------|----------------------|
| SEQUOIA FIELD AIRPORT A TULARE COUNTY AVIATION FACILITY | | BRANDING 1 |
| VISALIA CALIFORNIA | | 3 |
| AIRPORT LAYOUT PLAN (ALP) | | |
| DATE: 03/18/18 | JOB NUMBER: 1473 | ISSUE NUMBER: 1473-3 |
| DRAWN BY: [Name] | | SCALE: AS SHOWN |
| CHECKED BY: [Name] | | DATE: 02/16/2018 |



Airport Capital Improvement Program (ACIP)

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2019 – Runway 13-31 & Exits Rehabilitation

2020 – Parallel Taxiway Rehabilitation

2021 – Apron & Taxilanes Rehabilitation

2022 – 12000 Gal AVGAS Fuel Island

2023 – 16 Unit Nested T-Hangar Buildings



Navigation Aids Project

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- **Automated Weather Observation System (AWOS)**
 - Detects and reports: wind speed/direction, ambient temperature, dew point, pressure, visibility, and precipitation
 - AWOS III Add-Alt: weather ceilings and visibility
- **Runway End Indicator Lights (REIL)**
 - Provides rapid and positive identification of runway end
 - Uses two rapidly flashing lights at each runway end
- **Precision Approach Path Indicator (PAPI)**
 - Alerts pilots to vertical alignment (too high, too low)
 - Uses 4 specialized lights showing red and white depending on approach



Navigation Aids Project

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■ Bidding Schedule

- Authorization to Re-Bid – October 3, 2017 (Resolution 2017-0836)
- Received LED PAPI Lights – July 24, 2019
- Date of Advertisement – October 8, 2019
- Bid Opening – October 31, 2019
- Award Request – December 17, 2019

■ Construction

- Approximately 6 months



Project Funding

- **Airport Layout Plan - \$100,000**
 - FAA AIP Grant of 2015 (AIP No. 3-06-0266-007-2015) - \$90,000
 - Caltrans California Aid to Airports Program (CAAP) Grant of 2015 - \$4,500
 - Local Match Funds - \$5,500
- **Navigation Aids - \$399,740**
 - FAA AIP Grant of 2017 (AIP No. 3-06-0266-009-2017) - \$359,766
 - Caltrans CAAP Grant of 2019 - \$17,988
 - Local Match Funds - \$21,986
 - AWOS III Add Alt - appx. \$25,000



Other Airport Uses





Requests

That the Board of Supervisors:

1. Receive a presentation on the Sequoia Field Airport Layout Plan and an update on developments at Sequoia Field; and
2. Approve the current draft of the Sequoia Field Airport Layout Plan; and
3. Authorize the Chairman of the Board to sign the current plans for the Airport Layout Plan.



Questions, Comments, and Discussion