PURPOSE OF AN AIRPORT MASTER PLAN

• Provide a visioning document to guide Tuolumne County and other decision makers regarding the future development of Columbia Airport.

• Address local, regional, and national changes in the aviation industry that could impact the development and priorities of the Airport.

• To have a current and FAA-approved ALP on record to remain eligible for FAA development grants.

• To maximize the economic development potential of the Airport to the County and the region.
METHODS OF STUDY INVOLVEMENT

PLANNING ADVISORY COMMITTEE (PAC)

- Comprised of approximately 15 members representing various entities (Airport, County, Governmental, Tenants, Economic Development, etc.)
- Provided input regarding the current and future use of the Airport
- Four (4) meetings scoped during the course of the study process.
METHODS OF STUDY INVOLVEMENT

PUBLIC INFORMATION WORKSHOPS

• Allow the public an opportunity to obtain information, ask questions, and provide input regarding the Master Plan.

• Three (3) workshops scoped during the course of the study process.

CUSTOM MASTER PLAN STUDY WEBSITE

• http://columbiamasterplan.airportstudy.com
### Columbia Airport

**EXHIBIT 2E: FORECAST SUMMARY**

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>2035</th>
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<td>Single Engine</td>
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<td><strong>170</strong></td>
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<tr>
<td>General Aviation</td>
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<td>23,100</td>
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<tr>
<td><strong>Total Local</strong></td>
<td><strong>21,000</strong></td>
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<td><strong>PEAK OPERATIONS FORECAST</strong></td>
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<td><strong>550</strong></td>
<td><strong>600</strong></td>
<td><strong>670</strong></td>
</tr>
</tbody>
</table>

Source: Coffman Associates analysis
EXHIBIT 2G
AIRCRAFT REFERENCE CODES

**A-I**
- Beech Baron 55
- Beech Bonanza
- Cessna 150
- Cessna 172
- Cessna Citation Mustang
- Eclipse 500/550
- Piper Archer
- Piper Seneca

**C-II, D-II**
- Cessna Citation X (750)
- Gulfstream 100, 200, 300
- Challenger 300/600
- ERJ-135, 140, 145
- CRJ-200/700
- Embraer Regional Jet
- Lockheed JetStar
- Hawker 800

**B-I**
- Beech Baron 58
- Beech King Air 100
- Cessna 402
- Cessna 421
- Piper Navajo
- Piper Cheyenne
- Swearingen Metroliner
- Cessna Citation I (525)

**C-III, D-III**
- ERJ-170
- CRJ-705, 900
- Falcon 7X
- Gulfstream 500, 550, 650
- Global Express
- Global 5000
- Q-400

**B-II**
- Super King Air 200
- Cessna 441
- DHC Twin Otter
- Super King Air 350
- Beech 1900
- Citation Excel (560)
- Sovereign (680)
- Falcon 50, 900, 2000
- Citation Bravo (550)
- Embraer 120

**C-III, D-III**
- ERJ-90
- Boeing Business Jet
- B-727
- B-737-300, 700, 800
- MD-80, DC-9
- A319, A320

**A-III, B-III**
- DHC Dash 7
- DHC Dash 8
- DC-3
- Convair 580
- Fairchild F-27
- ATR 72
- ATP

**C-IV, D-IV**
- B-757
- B-767
- C-130 Hercules
- DC-8-70
- MD-11

**C-I, D-I**
- Beech 400
- Lear 31, 35, 45, 60
- Israeli Westwind

**D-V**
- B-747-400
- B-777
- B-787

Note: Aircraft pictured is identified in bold type.
EXHIBIT 6B: CIP DEVELOPMENT STAGING

**SHORT TERM (Years 1-5)**

- 2018
  - Construct - Phase I Taxiway and Aircraft Parking Apron Reconstruction/Rehabilitation on East and West Sides of Airport Including T-Hangar Replacement (Pending 2017 Design Grant)
  - Environmental (Environmental Assessment and Preliminary Project Design - Taxways A and B Relocation to Meet RDC B-II Design/Seperation Standards (Include Analysis for Runway 17-35 Extension)) - Not Pictured
  - Design and Construct T-Hangars on East Side of Airport (2)

- 2019
  - Design and Construct - Replace VASI-2s with PAPI-2s on Runway 17-35
  - Design and Construct - Replace AWOS

- 2020
  - Design - Taxiways A and B Relocation to Meet RDC B-II Design/Seperation Standards (Include Analysis for Runway 17-35 Extension) - Not Pictured

- 2022
  - Construct - Phase I Taxiway Relocation to Meet RDC B-II Design/Seperation Standards (Southern Portion of Taxiway A and Taxiway B to Include Airfield Geometry Enhancements and Helicopter Parking Apron Expansion/Relocation)
  - Environmental - Reimbursement for Taxiways A and B Relocation Environmental Impact Report - Not Pictured

**INTERMEDIATE TERM (Years 6-10)**

- Construct Phase II Taxiway Relocation to Meet RDC B-II Design/Seperation Standards (North Portion of Taxiway A and Cargo Facilities)
- Construct Phase III Taxiway Relocation to Meet RDC B-II Design/Seperation Standards (Midfield Portion of Taxiway A to Include Relocated Heiplad North of Main Aircraft Parking Apron)
- Extend Runway 17-35 and Parallel Taxiway A 1-HD South (Include Clearing Departure Surface and Land Acquisition)
- Runway 17-35 Reconstruction/Rehabilitation (Include Enhancing MEIL with LED Technology)
- Extend Taxiway 8 to the North (Approximately 200') to Connect to Relocated Turf Runway 29 Threshold
- Co-locate Terminal Facility (Airport Administration and FBO)
- Implement Infrastructure Development on Northwest Side of Airfield - Phase I
- General Pavement Maintenance Projects - Not Pictured

**LONG TERM (Years 11-20)**

- Construct Dedicated Airport Maintenance Facility
- Construct Replacement T-Hangars on East Side of Airport (3)
- Construct Taxiway B on Northwest Side of Airfield (Approximately 1,200') to Provide for West Airfield Development Potential (Include Relocating Segmented Circle/Lighted Windcone/Tetrahedron)
- Construct Aircraft Parking Apron on Northwest Side of Airfield
- Implement Infrastructure Development on Northwest Side of Airfield - Phase II
- Implement Helicopter Parking on West Side of Airfield
- Construct Taxiway Leading to Airport Campground (Include Aircraft Parking Apron)
- Construct T-Hangars on East Side of Airport (3)
- General Pavement Maintenance Projects - Not Pictured
• Each FAA grant must be coordinated/approved by the County’s Board of Supervisors.
• The County can pursue projects on their own without FAA funds.
• The Airport receives up to $150,000 annually through non-primary entitlements.
• FAA discretionary funds will be needed for many projects.
• Additional environmental documentation will be needed on certain projects identified in the CIP.
NEXT STEPS

Master Plan

- CEQA Initial Study
- Mitigated Negative Declaration
- County Approval
- Produce Final Master Plan Document

Airport Layout Plan

- FAA Initial Review (currently underway)
- Address any FAA Comments
- Sponsor and FAA Signatures
- Receive FAA Conditional Approval for the ALP
CEQA Environmental Process


• Two tribes contacted – January 2018.
  • Tuolumne Band of Me-Wuk Indians: Replied Jan. 16, 2018 with no concerns as AMP does not authorize ground disturbing activities
  • Chicken Ranch Rancheria of Me-Wuk Indians: Replied Jan. 22, 2018 with no comments to offer.

• Public Review of Draft Initial Study and Mitigated Negative Declaration: June 11, 2018 – July 25, 2018
<table>
<thead>
<tr>
<th>Environmental Factors Potentially Affected</th>
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<tbody>
<tr>
<td>□ Aesthetics</td>
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<tr>
<td>![X] Biological Resources</td>
</tr>
<tr>
<td>□ Greenhouse Gas Emissions</td>
</tr>
<tr>
<td>![X] Hazards &amp; Hazardous Materials</td>
</tr>
<tr>
<td>□ Land Use &amp; Planning</td>
</tr>
<tr>
<td>□ Population &amp; Housing</td>
</tr>
<tr>
<td>□ Transportation/Traffic</td>
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<tr>
<td>![X] Mandatory Findings of Significance</td>
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</tbody>
</table>

- □ Agriculture & Forestry Resources
- ![X] Cultural Resources
- ![X] Air Quality
- ![X] Geology & Soils
- ![X] Hydrology & Water Quality
- □ Mineral Resources
- □ Public Services
- □ Tribal Cultural Resources
- ![X] Utilities & Service Systems
- ![X] Noise
- ![X] Recreation
AIR QUALITY

Impact: Future impacts to sensitive receptors to substantial pollutant concentrations.

Mitigation includes measures addressing:

• Exposed soils, and piles of dirt, sand, gravel or other construction debris
• Vehicle track out
• Street sweeping
• On-site vehicle speed limits
• Properly covered haul/dump trucks
• Proper construction equipment maintenance
• Minimal equipment idling
• Compliance with California Air Resources Board off-road and portable equipment requirements
BIOLOGICAL RESOURCES

Impact: Future impacts to special status species.

Mitigation includes surveys and follow-up plans, permits, or avoidance measures to be implemented on future construction projects, as appropriate:

• Botanical surveys and follow-up Rare Plant Mitigation Plans

• Pre-disturbance surveys for California red-legged and foothill yellow-legged frogs and appropriate avoidance or relocation measures

• Pre-disturbance surveys for bats and appropriate avoidance or temporary bat exclusion measures

• Nesting bird surveys and appropriate avoidance measures and/or buffers
BIOLOGICAL RESOURCES (cont.)

Impact: Future impacts to riparian vegetation and jurisdictional waters.

Mitigation includes:

- Avoidance, minimization, or mitigation measures in support of Clean Water Act Section 404 permits, Streambed alteration agreements, and/or Clean Water Act Section 401 Certifications

Impact: Future impacts to Local Tree Ordinance

Mitigation includes:

- Tree surveys and appropriate avoidance, replacement, or payment of in-lieu fees
CULTURAL RESOURCES

Impact: Future potential impacts to archaeological or paleontological resources, and uncovered human remains outside of a dedicated cemetery.

Mitigation includes:

• Surveys of previously unsurveyed areas

• Avoidance or approved data recovery efforts for protected resources per federal and state law

• Compliance with requirements for the handling of human remains, if encountered
GEOLOGY & SOILS

Impact: Future potential impacts to unstable and expansive soils.

Mitigation includes:

• Completion of site and project-specific geotechnical reports

• Incorporation of recommended construction practices and/or design remedies
HAZARDS & HAZARDOUS MATERIALS

Impact: Future potential emission of hazardous materials, substances or waste within one-quarter mile of an existing school.

Mitigation includes:

- A hazardous air pollutant (HAP) analysis prior to construction for development within ¼ mile of Columbia Elementary School, if needed
- Incorporation of all feasible recommended mitigation measures

Impact: Potential safety hazards for projects located within an airport land use plan.

Mitigation includes:

- Working with the County ALUC to update the ALUCP to reflect the new compatibility zones
HYDROLOGY & WATER QUALITY

Impact: Future potential hydrologic and/or water quality impacts.

Mitigation measures include:

- Notice of Intent to discharge under the Construction General Permit
- An update to the Stormwater Pollution Prevention Plan (SWPPP) and applicable best management practices

UTILITIES & SERVICE SYSTEMS

Impact: Future potential impacts related to the availability of sufficient water supplies.

Mitigation includes the implementation of water conservation strategies
QUESTIONS?