

Tucson International Airport Master Plan Update

Executive Summary Prepared for the TAA Planning & Regional Relations Council

March, 2013

Introduction

First drafted in 1974, the Tucson International Airport (TIA) Master Plan guides the future development of the airport so it can accommodate long-term growth and the requirements for passenger airline service, air cargo, ground transportation, military, general aviation, industrial development, and other activities. This current effort is the sixth update of the original Master Plan. The successful completion of this update and the related airfield safety enhancement, terminal optimization and collateral land development programs, is the result of an intensive and successful collaborative effort among stakeholders, which included the Tucson Airport Authority (TAA), Federal Aviation Administration (FAA), Arizona Department of Transportation (ADOT), airport tenants, and the public.

While the Master Plan Update addresses traditional master planning elements, including updating the inventory, establishing future facility requirements and preparing an updated Airport Layout Plan, the study's key focus areas relate to modernization of the airfield through strategic development, including relocation and expansion of the TIA's

parallel runway. The Master Plan Update documents the various safety, operational and efficiency needs of the airfield and analyzes several distinct alternatives for addressing airfield development goals. The Update also focuses on opportunities for developing airport land that has been reserved for compatibility or capacity expansion purposes. TIA contains nearly 6,000 acres of collateral land that can be developed with interim and long-term commercial, industrial, energy and specialty uses.

The potential for this development indicates the significant role TIA will continue to serve as a regional economic catalyst. The findings of the Master Plan Update confirm the need to relocate and upgrade Runway 11R-29L to ensure operational efficiency is maintained through the 20-year planning horizon. The study identifies a series of improvements needed over the next 20 years to ensure the airport is positioned to accommodate anticipated demand as well as adjust effectively to variation in demand.



Planning Goals

Overall, the Master Plan Update endeavors to provide a guiding policy document that provides an environmentally conscious and strategic tool for managing facility and land use implementation plans; further, planning objectives seek to accommodate forecasted aviation demand and development trends; maximize revenue potential in consideration of benefits to residents and businesses surrounding TIA; align strategic economic development resources and positively contribute to the quality of life and economic health of our region.

Aeronautical Objectives

- Accommodate the forecast aircraft fleet mix.
- Accommodate forecast passengers and aircraft operations.
- Accommodate the needs of general aviation, military and cargo activities.
- Provide for airport growth beyond the planning horizon, as appropriate.
- Maintain or improve efficiency in airport operations.
- Plan facilities that meet or exceed airport design and operational standards.

Safety Objectives

- Plan facilities that meet or exceed airfield design standards.
- Use airfield design and land use planning to enhance safety and efficiency.
- Use airfield design, as possible, to reduce the potential for human error.
- Consider facility security requirements and accommodate emerging technologies.

Financial Objectives

- Realize the revenue potential of airport land development for long-term fiscal benefit.
- Maximize eligibility for FAA funding on proposed improvements.
- Minimize TAA liabilities and financial risk.
- Encourage diverse revenue streams to promote TAA's financial sustainability.
- Promote physical development of the airport that provides operational and maintenance efficiency.

Community Objectives

- Enhance airport access for all users.
- Promote on-airport land uses that benefit the surrounding community.
- Identify opportunities to integrate TIA into the larger intermodal transportation network.
- Promote an intermodal business and transportation "campus" within a user-friendly environment.
- Seek out opportunities to further mitigate community noise impacts.

Environmental Objectives

- Coordinate TIA development with regional environmental preservation and mitigation efforts.
- Incorporate "green" solutions in both building and site planning.
- Reuse or re-purpose facilities where feasible, and promote modular or flexible planning.

Land Use Objectives

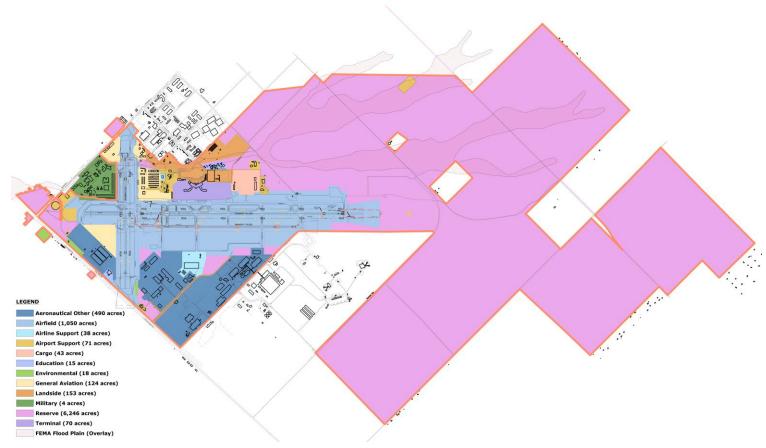
- Ensure appropriate reservation of airport land for long-term aeronautical growth.
- Leverage TIA assets as a catalyst and center for industrial preservation and growth.
- Promote the highest and best use of on-airport property.
- Integrate and align airport development with regional transportation and infrastructure planning.
- Promote urban design improvements which establish clear gateways to the airport.

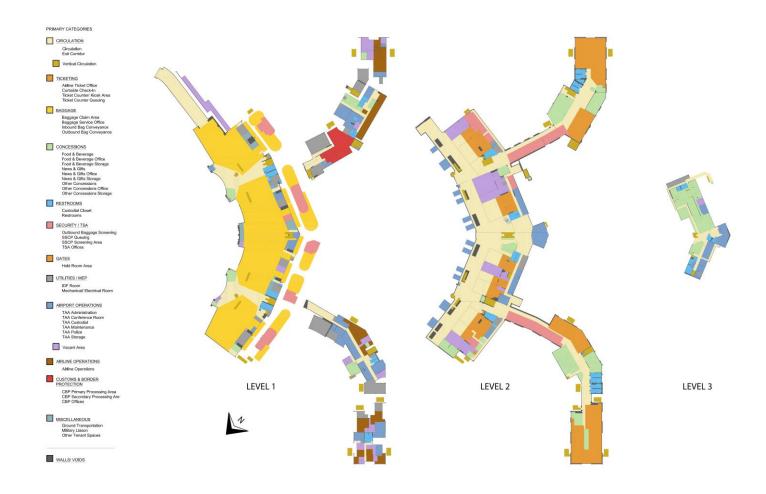
Planning Context

Tucson International Airport operates three runways, Runways 11L-29R, 11R-29L, and 3-21. The two parallel runways measure 10,996 feet long by 150 feet wide (Runway 11L-29R) and 8,408 feet long by 75 feet wide (Runway 11R-29L). Runway 11R has a displaced arrivals threshold of 1,410 feet, resulting in an available landing length of 6,998 feet. The parallel runways are separated by a distance of 706.5 feet. Runway 11L-29R is the primary runway and generally used by commercial air-carrier service, cargo, and military operations. Runway 11R-29L is used primarily for general aviation aircraft. A third crosswind runway runs perpendicular to, but does not intersect the two parallel runways and measures 7,000 feet long by 150 feet wide. It is used by all aircraft when wind and weather conditions dictate. The Runway 3 arrivals threshold is displaced by 840 feet resulting in an available landing length of 6,160 feet.

Airfield capacity and safety/operational enhancement considerations are used to determine airside facility requirements, which include runway requirements. Runway design is based on the critical aircraft—the most demanding aircraft in terms of approach speed and wing span with 500 or more existing or forecast annual itinerant operations. The critical aircraft at TIA is the Airbus A300-600 flown by FedEx. It is a C-IV aircraft with an approach speed category of 135 knots and a wingspan of 147.1 feet. For runway length, approach categories C and D typically have the same standards. Runway 11L-29R and Runway 3-21 are currently designated as D-IV (established with a blend of approach category D aircraft [Boeing 737-800W] and aircraft design group IV aircraft [Airbus A300, Boeing 757]) and Runway 11R-29L is B-II (e.g. Beechcraft King Air).

Existing Airfield System and Land Use





The three-level passenger terminal is approximately 430,000 square-feet and contains the passenger processor and baggage processing functions. Level 1 is the baggage level within the processor and airport operations and maintenance offices within the concourses. Level 2 is the ticketing level within the processor and aircraft gate level within the concourses where passengers board and deplane aircraft. Level 3 is the mezzanine in the processor consisting of concessions, utilities, offices, and conference rooms. Connected to the terminal processor are two two-level concourses, Concourse A to the East and Concourse B to the West, where passengers wait for, enplane and deplane aircraft

General Aviation facilities comprise approximately 124 acres of airport property. Aircraft storage and parking areas include tie-down positions, conventional hangar parking, T-hangar parking, and covered aircraft / ramada parking areas. TIA has more than 350 tie-down positions. Hangars include private individual hangars accommodating more than 240 aircraft, common fixed base operator (FBO) hangars, and corporate hangars. The Executive Terminal and several FBOs offer a total of approximately 61 shade hangars. TIA has four FBOs

which provide a variety of general aviation services including flight training, flight charters, fuel sales, aircraft rentals and sales, aircraft maintenance, and aircraft storage and parking.

The majority of the passengers who utilize TIA originate their vehicular trips from the Tucson metropolitan area north of TIA and access is achieved via surface streets. Tucson Boulevard, with its access to the passenger terminal, is designated a National Highway System intermodal connector. Transit service to TIA is provided by Sun Tran, which operates two bus routes every half-hour on weekdays and every hour on weekends to and from TIA. The land use program considers and incorporates several ongoing regional planning efforts that seek to improve on the need for additional high capacity roadway and transit systems in the airport environs; these include efforts being led by Pima County and the City of Tucson towards enhanced industrial corridors south of the airfield as well as efforts led by ADOT and PAG in planning for intercity passenger and freight rail interconnectivity with TIA. Demand for access to airport services from throughout Southern Arizona and northern Mexico is expected to grow significantly during the planning horizon.

Forecast

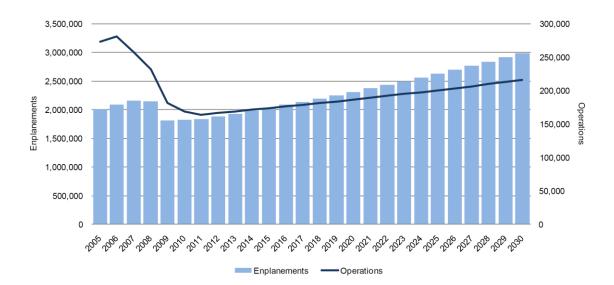
TIA currently serves approximately 3.7 Million Annual Passengers (MAP) and supports approximately 165,000 operations compared to 3.8 MAP and 254,000 operations in 2004 when the previous Master Plan Update was completed. Historically, the peak month for passengers is March. Of total operations, in 2004, almost 60% were general aviation (GA). The remaining operations were split nearly equally between air carrier, air taxi, and military. The current share of operations from GA activity is still high at 47%, however GA aircraft operations have decreased by approximately 50% since 2004. Air carrier operations have also decreased, from 40,000 in 2004 to 35,000 operations currently. TIA currently has a modest volume of air cargo activity accommodating approximately 69 million pounds of freight annually.

The TIA Master Plan Update forecast of aviation activity was approved by the FAA in July 2012. The forecast projects air carrier passenger enplanements and air carrier, general aviation and military aircraft operations throughout the forecast horizon. The baseline forecast is accompanied by high and low scenario forecasts for sensitivity

purposes. Additionally, average week day of the peak month (AWDPM) data, representative of a typical day from which forecasting and facility requirements are based upon, were used to develop design day schedules; these schedules provide airline activity in detail, including destination markets, carriers, equipment types, and seats along with additional pertinent information for the forecast years of 2015 (Planning Activity Level 1), 2020 (PAL 2), 2025 (PAL 3) and 2030 (PAL 4).

The forecast for TIA has air carrier enplaned passengers projected to increase from 1.8 million currently to just shy of 3.0 million in 2030 at an average annual compound growth rate of 2.5 percent. The forecast assumes an increase in Gross Domestic Product (GDP) output and the slow but positive economic recovery keeping TIA's growth rate steady throughout the forecast horizon. Air carrier operations are projected to grow at an average annual compound growth rate of 2.1 percent, and general aviation at a rate of 1.0 percent, for a total operations growth of 1.2 percent throughout the forecast horizon at TIA.

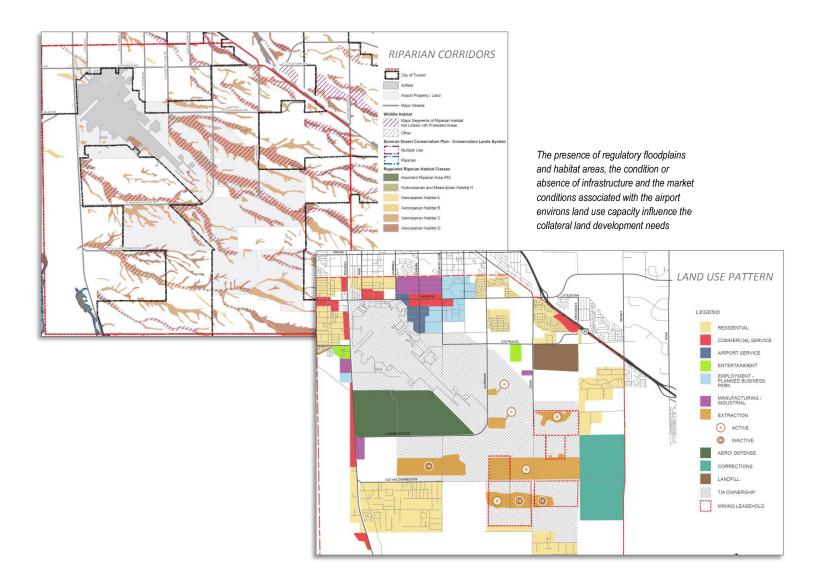
Forecast of Aviation Activity



The Master Plan Update reviewed all of the facility requirements for TIA; with additional focus and analysis being conducted for airfield redevelopment, collateral land development, and terminal space optimization. The needs for airfield redevelopment reflect the objectives of safety enhancement, operational efficiency, capacity development, noise reduction, maintenance efficiency, and operational redundancy. Facility analysis and requirements were determined for airspace factors, general and military aviation, terminal processors, cargo needs, support and parking functions as well as various specialized landside facilities. In all, the vast majority of existing TIA functions and processes can be served through the first half of the planning horizon, if not the through the entire 20-year outlook. There are some exceptions to this however as the dynamic general aviation market will require flexibility over time and possibly the need for facility space expansion depending on the type of GA facilities that become more in demand. The table below notes when deficiencies in certain systems are anticipated to occur and at what level of significance (note that Level of Service is a measure of a roadway's congestion). TAA will be updating the General Aviation Strategic Plan for TIA to further analyze specific needs and programming requirements to best serve future GA growth. The Terminal Optimization Study identified several areas of the terminal concession, security, administrative and baggage functions and facility needs that could potentially benefit from modification or expansion as well. The Land Use Program, from a facility needs perspective, emphasizes the role of existing land use mix, riparian corridors in the airport environs, and the condition of infrastructure and utilities as major factors influencing collateral land development requirements.

Of the numerous facility needs reviewed, only a handful revealed capacity related deficiencies during the planning horizon

	Today	2015	2020	2025	2030
Covered Economy Parking Space (Stalls)	303	-50	-95	-155	-215
Terminal Access Roadway (Level of Service)	Α	Α	Α	В	С
Baggage Make-Up Area (Square Feet)	12,728	-1,645	-5,330	-7,020	-8,870
Terminal Concessions Area (Square Feet)	33,386	-3,655	-8,715	-14,475	-21,025
General Aviation Hangar Area (Acres)	9.2			-0.02	-0.66



Runway Program

Runway 11L-29R regularly accommodates a diverse fleet mix of commercial air-carrier, light general aviation, corporate general aviation, military, and cargo arrivals and departures. As a primary commercial airport within the National Airspace System, TIA's commercial operations can often be impacted with delays as a result of other airport users. The highly variable aircraft approach speeds of the different types of aircraft using TIA increase controller workload and require controllers to provide greater in-trail separation of aircraft.

A second parallel air-carrier runway would nearly double large aircraft capacity, including performance aircraft with large aircraft characteristics (e.g. F-16s) at TIA in visual operating conditions by enabling Air Traffic Control to segregate arriving and departing aircraft on different runways. Segregating arriving and departing aircraft also enhances safety by minimizing mixed-mode operations on a single runway. Upgrade of the parallel runway would also provide Air Traffic Control with greater flexibility in sequencing departures and arrivals throughout the day as well as provide a dedicated touch-and-go runway for TIA industrial, general aviation and military users during less busy times of the day. Upgrading Runway 11R-29L to a full D-IV runway will also minimize potential pilot confusion as the new runway would have its threshold aligned with Runway 11L-29R and have the same width which would clearly differentiate it from a parallel taxiway.

The Master Plan Update analyzes several alternative airfield development scenarios that respond to the airfield safety, operational efficiency, and capacity goals. Airfield alternatives were evaluated for effectiveness and feasibility and specifically analyzed for the following objectives:

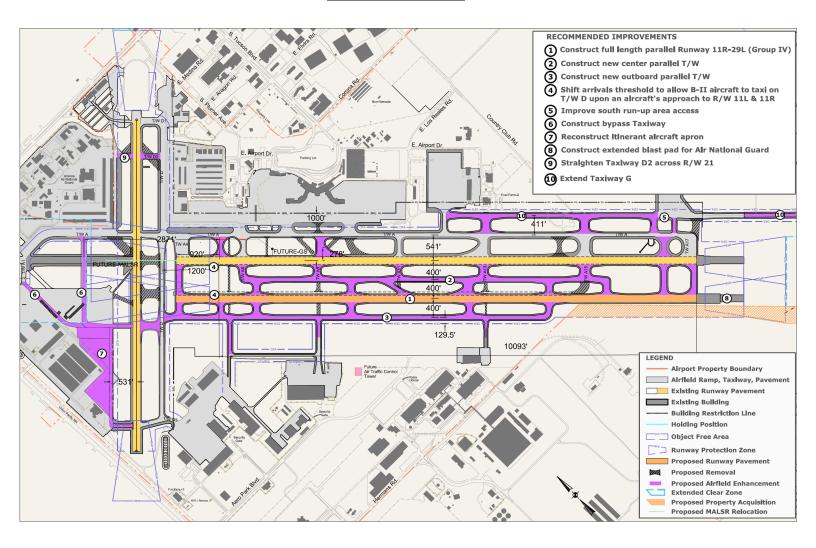
- Supports eliminating, reducing, or mitigating safety risk
- Enhances capacity without producing a negative impact on safety
- Provides operational efficiency / addresses operational issues (e.g. congestion)
- Provides for redundancy during runway closure for maintenance or emergencies
- Accommodates changes in fleet mix and design group or other operational changes
- Conforms with design standards and considers impacts to navigational aids
- Creates potential for on-airport land development and accounts for off-airport land compatibility



Through ongoing stakeholder input and analysis and evaluation of the airfield alternatives, a preferred runway plan was developed with the Master Plan Update. The runway plan doubles large aircraft capacity at TIA; provides a dedicated arrival and departure runway or a preferred military aircraft runway during periods of peak military activity; provides an 800 foot separation between the parallel runways which allows for the construction of a center parallel taxiway; provides more efficient and safer access to Runway 11R-29L and facilities on

the south side of the airport via the new outboard parallel taxiway; and enables Taxiway D to function as an end around taxiway for B-II aircraft and thereby minimize runway crossings by GA aircraft. Moreover, the preferred runway will promote better identification of airfield signage, lights, pavement markings, and nomenclature; aligns runway thresholds for ease of identifying runways and significantly reduces the complexity of key airfield intersections.

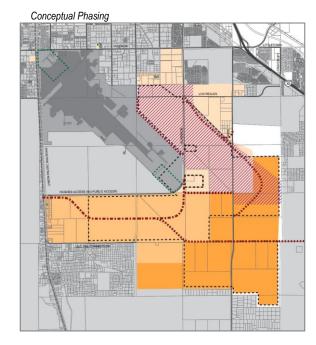
Preferred Runway Plan



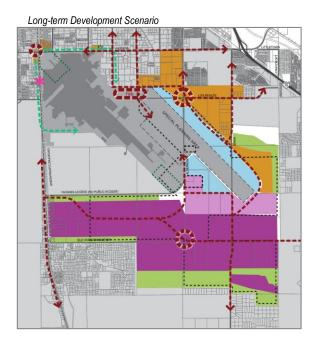
Land Use Program

The land use program fundamentally recognizes TIA's key geographic position for supporting industrial development and serving as the hub facility for intermodal logistics in Southern Arizona. Approximately ¾ of TIA's land is suitable for collateral land development or redevelopment. Limiting factors in the airport environs include availability of infrastructure, the presence of floodways and riparian resources and long-term reclamation costs for certain sites. These factors, as well as other development criteria, were analyzed for cost feasibility implications in the land use program. This analysis drove the development of land use phasing and highest and best use determinations.

Several of the major infrastructure development concepts assumed in the land use program will require continued regional coordination and planning with ADOT, PAG, Pima County and the City of Tucson, as well as many other stakeholders. Accommodation of future multi-modal improvements will also be an important proactive consideration; for example, establishing appropriately sized rights-of-way to enable future connectivity for pedestrian, bicycle, bus/shuttle and light rail routes in the airport area. The land use program phasing strategy promotes sites that are readily developable with minimal mitigation and drainage needs or has the capability to address these issues on-site. Over the longer term, properties requiring a more coordinated and engineered approach to mitigation and drainage requirements should be considered, in conjunction with a strategy to provide a mitigation "bank" area to the south. This area can potentially serve as an effective buffer between traditional employment uses and industrial activities. A coordinated "branding" effort that ties development opportunities in the airport area to the advantages of proximity to the airport will be important. Development marketing and subsequent approval processes will need to be straightforward, predictable and timely to ensure that properties can be marketed to their full potential. A coordinated effort with the City of Tucson and Pima County towards implementing a new Airport Development Overlay Zone will be necessary to ensure that a cohesive land use mix and appropriate development standards are implemented over time, reflective of the future development plan map. Finally, all existing development incentive programs should be pursued for development in the airport environs as should regional collaboration towards new incentives to support airport area development.







General Aviation – Areas that provide for a range of commercial and specialty aviation-related development. Specific uses typical to GA include small and large and corporate hangars; fixed base and specialty operators, minor aircraft repair, self-serve facilities, pilot support facilities, and flight schools.

Industrial Aviation – Sites capable of supporting a range of moderate to intense industrial and major commercial aviation-related development. Specific uses typical to IA include major aircraft, airframe, avionics, and power plant repair; parting, storage, refurbishing and manufacturing of aircraft and aerospace components; air cargo and related operations, freight and logistics, distribution, warehousing and multi-modal facilities. Airfield-related uses that require special infrastructure, facilities or compatible design are also appropriate IA development.

Mixed Use Aviation – Areas that may support a balance of general and industrial aviation activity in close proximity, provide transition between use intensity, or contain other site factors that allow for a mix of uses to occur on a single parcel, including accessory commercial uses.

Extended Clear Zone – Areas beyond the runway protection zone that are kept clear of development, per TAA Policy.

Commercial Node – Areas surrounding key intersections that are anticipated to support demand for retail activity, auto-oriented commercial services or professional services; where feasible, commercial nodes also support mixed use development.

Employment – Sites that have potential infrastructure access or could support major long term employee-intense commercial and compatible industrial development.

Industrial / Logistics – Sites that provide for compatible light industrial and transportation-related development activities, including logistics and freight intermediary operations.

Large Scale Industrial – Large sites that can accommodate aerospace and defense manufacturing, research and development, technology, biosciences uses, and other similar intense industrial activities. This area will typically reflect master planned, large scale single tenant facilities.

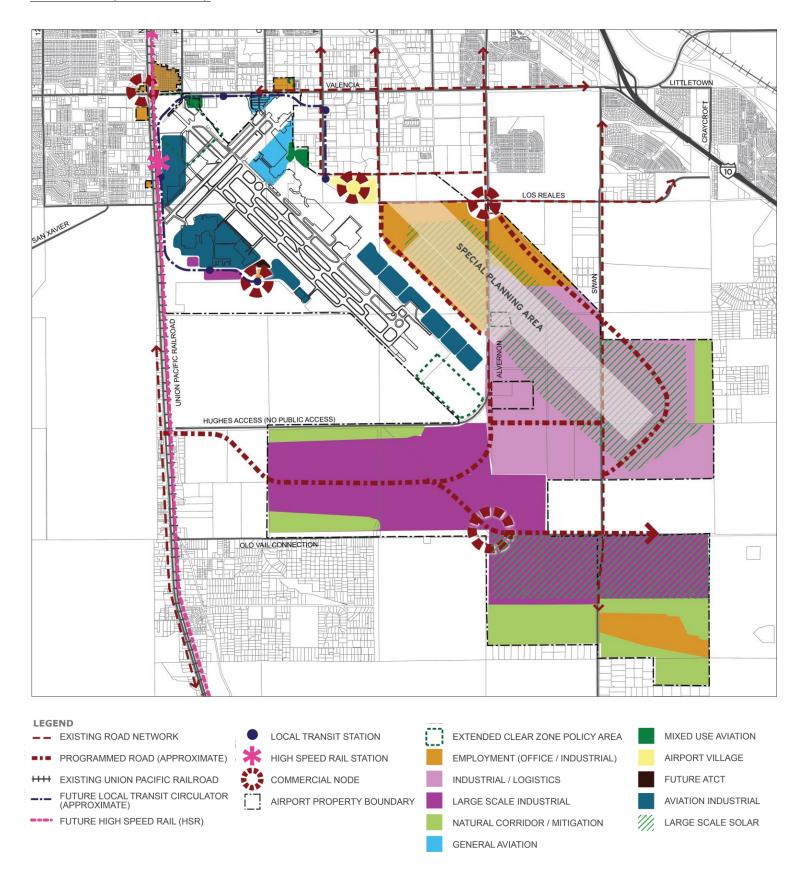
Natural Corridor / Mitigation – Corridors that can safely support riparian habitat enhancement to offset site development impacts to locally delineated riparian habitat. This designation is intended to support a development strategy that cost-effectively and sustainably addresses ecological impacts and off-airport compatibility functions.

Airport Village – The Airport Village concept is intended to guide future development of a mixed use lifestyle center to support customers and employees of TIA as well as the surrounding community. The Airport Village is anticipated to support a multi-modal transit center and intense, transit-oriented development themes.

Large Scale Solar – This overlay designation is intended to show areas that could support utility-scale solar energy development, either in the near-term or long-term.

Special Planning Area – This overlay designation is intended to show areas that could support interim collateral land development through the planning horizon but carries special planning considerations because the land may be needed for airfield expansion beyond the planning horizon.

The land use program incorporates opportunities for all forms of new development; including general and industrial growth as well non-aeronautical growth on lands previously reserved for noise or long-term airfield expansion purposes. The land use program demonstrates the potential for facilitating industrial and solar farm development of reserve areas capable of supporting interim land uses. The summary map for the land use program is the Future Development Plan Map (FDPM). The map identifies and focuses on existing development areas and infrastructure, opportunity sites and planned surface transportation facilities, to ensure that a comprehensive yet concise and functional single reference can be utilized for marketing and implementing future development initiatives.



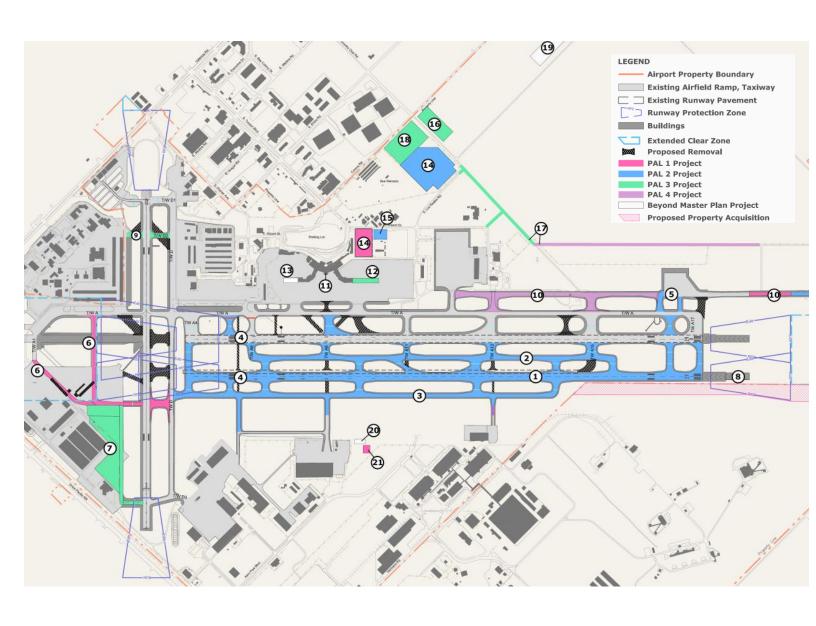
Phasing and Financial Strategy

Components of the Preferred Comprehensive Development Plan were grouped by PAL according to the time period and aviation activity level that the project is anticipated to be required. Estimates of the airside, terminal, landside, general aviation, cargo, and support facilities required to accommodate forecast levels of air passengers and aircraft operations as well as non-forecast related needs were developed in the context of the planning objectives. As economic conditions change passenger levels may grow faster or slower than anticipated, and for planning purposes, the forecasts were assigned to planning activity levels (PALs) which represent the level of passengers and operations at four milestones and will act as trigger points, or guides, for programming new development and facilities.

The Preferred Development Plan Costs by PAL table shows projects developed through the Master Plan Update, the table does not show existing major maintenance or capital projects already programmed (such as the terminal apron reconstruction).

Based on phasing requirements, a financial strategy was prepared with the intent of showing the accessible sources of capital – Airport Improvement Program grants, etc. – available to fund the projects recommended during the planning period. The financial plan assumes the use of a number of different funds including federal AIP grants, ADOT grants, TAA revenues, and tenant funding. The financial plan also assumes the application of Passenger Facility Charge revenues and Letter of Intent proceeds as direct offsets to the eligible portion of the annual debt service requirements on proposed future airport revenue bonds. As the airport operates in a very dynamic industry, specific financing of future year projects would be revisited when the decision to move forward is considered. Federal and state funding will be sought for all eligible project costs. The costs presented include design, construction, contingency and administrative fees for each project with the exception of the Runway 11R-29L Relocation which is presented separately for design and construction. All costs are presented in 2013 dollars.

Planning Activity Level 1 includes airfield projects in support of and preceding the construction of the Runway 11R-29L Relocation including the EIS, Airports GIS Survey and Obstructions analysis, Runway 11R-29L Design, and relocation of the Raytheon bunkers. The re-designation of all runways based on the current magnetic heading, the renovation of the main Terminal to relocate and expand security checkpoints and concessions, and continued extension of Taxiway G to support aircraft maintenance development are all included PAL 1. Planning Activity Level 2 primarily includes construction of the major components of the Runway 11R-29L program including the runway, center and outboard taxiways along with an expansion of the rental car service area and continued extension of Taxiway G. Planning Activity Level 3 airfield projects are comprised of secondary airfield enhancement projects after completion of the Runway 11R-29L Relocation Program. The first phase of the Country Club Road extension would be completed during PAL 3 to support maintenance repair and overhaul (MRO) development sites. The terminal Concourse A expansion is also included in PAL 3. Planning Activity Level 4 includes the second phase of the Country Club Road enhancements, extending to Aeronautical Way, and would be completed along with an extension of Taxiway G to the north Future Industrial Aviation Complex.



RECOMMENDED IMPROVEMENTS

1 Construct full length parallel Runway 11R-29L (Group IV)

Construct full length parallel Runway 11R-29L (Group
Construct new center parallel T/W
Construct new outboard parallel T/W
Shift arrivals threshold
Improve south run-up area access
Construct bypass Taxiway
Reconstruct itinerant aircraft apron
Construct extended blast pad for Air National Guard
Straighten Taxiway D2 across R/W 21

10 Extend Taxiway G

11 Terminal Renovation

2 Expand Concourse to the East **Expand Consourse to the West Install Solar Canopies**

Expand Rental Car fueling and wash rack

Construct Rental Car storage area

Expand Country Club Drive

Expand Economy Parking Lot

Construct Fuel Farm

Construct ARFF Station

Future Air Traffic Control Tower

Planning Activity Level 1 (Years 1 through 5)	
EIS for Runway 11R-29L Relocation Airports GIS Survey and Obstruction Analysis Redesignate All Runways Based on Current Magnetic Heading Reassign and Clarify Taxiway Nomenclature Airport Wide Drainage Basin Study in Support of Runway 11R-29L Relocation Runway 11R-29L Design Relocate Raytheon Bunkers and Barriers in Support of Runway 11R-29L Relocation Construct New Bypass Taxiway Around Runway11L and 11R Future RPZs Terminal Renovation - Security, Ticketing, Concessions Terminal Renovation - Administrative Space Install Solar Canopies on Top Level of RAC Garage Taxiway G Phase II Extension south to MRO2	\$1,400,000 \$700,000 \$2,900,000 \$2,200,000 \$230,000 \$6,100,000 TBD \$9,400,000 \$5,200,000 \$1,900,000 \$7,400,000 \$2,300,000 \$39,800,000
Planning Activity Level 2 (Years 6 through 10) Demolish Raytheon Bunkers in Support of Runway 11R-29L Relocation New Perimeter Road and Fencing Around Future Relocated Runway 11R-29L Displace Runway 11L Threshold and Relocate MALSR and Glideslope Construct New Access for South Run-Up Area Including Taxiway A Enhancements Construct Taxiway Connecting West Ramp to Taxiway A5, Widen TW A5 to Taxiway C Construct Taxiway A4 and A17 Bypass Remove TWs A7&A9 and Extend TW A8 to Intersect TW A, Provide High-speed Exit Construct Outboard Taxiway Between Taxiways A5 and A8 Construct Drainage Detention Basin in Support of Runway 11R-29L Relocation Runway 11R-29L Construction Construct New Outboard Taxiway from Taxiway A8 to Property Boundary Construct New Center Parallel Taxiway Install Solar Canopies in Economy Parking Lot Taxiway G Phase III Extension south from MRO 2 to MRO3	\$530,000 \$1,420,000 \$3,600,000 \$1,600,000 \$6,400,000 \$8,200,000 \$4,500,000 \$1,200,000 \$12,000,000 \$12,000,000 \$12,000,000 \$12,000,000 \$12,300,000 \$116,800,000
Planning Activity Level 3 (Years 11 through 15)	
Close Taxiway A2 Remove Taxiways T and A14 Straighten Taxiway D2 and ANG B Perpendicular to Runway 3-21 Expand Concourse to the East Country Club Road Extension Phase 1 south to ARFF Access Road Construct Rental Car Storage Area Along Corona Build Out North Portion of the Economy Parking Lot Reconstruct West Apron - Itinerant Aircraft Apron TOTAL PAL 3	\$185,000 \$156,000 \$831,000 \$41,500,000 \$735,000 \$1,415,000 \$3,100,000 \$8,240,000
Planning Activity Level 4 (Years 16 through 20)	
Country Club Road Extension Phase 2 south to Aeronautical Way Taxiway G Phase III Extension North to Future Industrial Aviation Complex Land Acquisition - Stewart Title Land Acquisition - Griggs / Ameron Land Acquisition - Hughes Sand and Gravel / AAA Remote Fuel Farm TOTAL PAL 4	\$1,010,000 \$5,600,000 \$970,000 \$550,000 \$2,400,000 \$30,800,000 \$40,830,000

Acknowledgements

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Marjorie Perry, Senior Vice President/General Counsel

Dick Gruentzel, Vice President Finance & Administration/CFO

Jim Garcia, Vice President of Operations

Jill Merrick, Vice President of Planning & Development

TAA Project Manager

Jordan Feld, Director of Planning

Project Consulting Team

Jessica Wyatt, HNTB Corporation

Diane Gormely-Barnes, HNTB Corporation

Justin Bychek, HNTB Corporation

Jean-Christophe Dick, HNTB Corporation

Tom Meehan, DOWL HKM

Tim Philips, Critical Path Inc.

Jessica Domitrovich, Critical Path Inc.

Alice Templeton, Gordley Group

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