

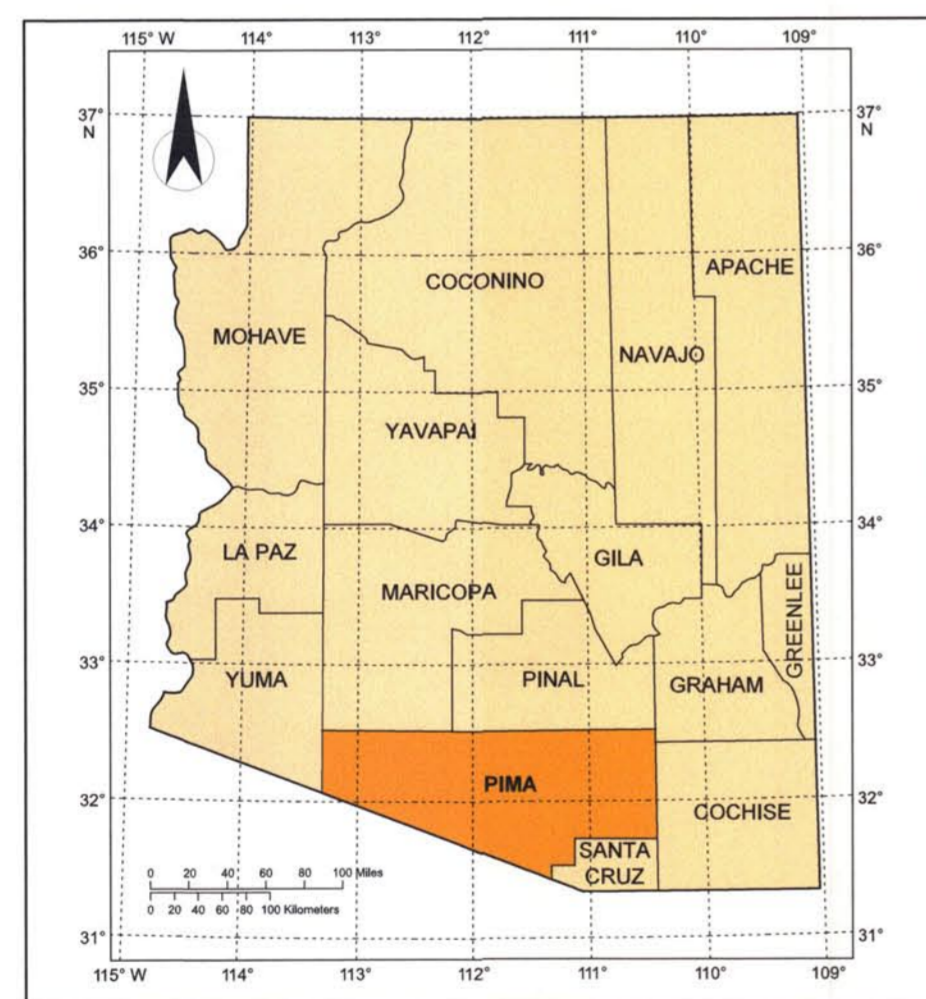
# AIRPORT LAYOUT PLAN SET

# Tucson International Airport

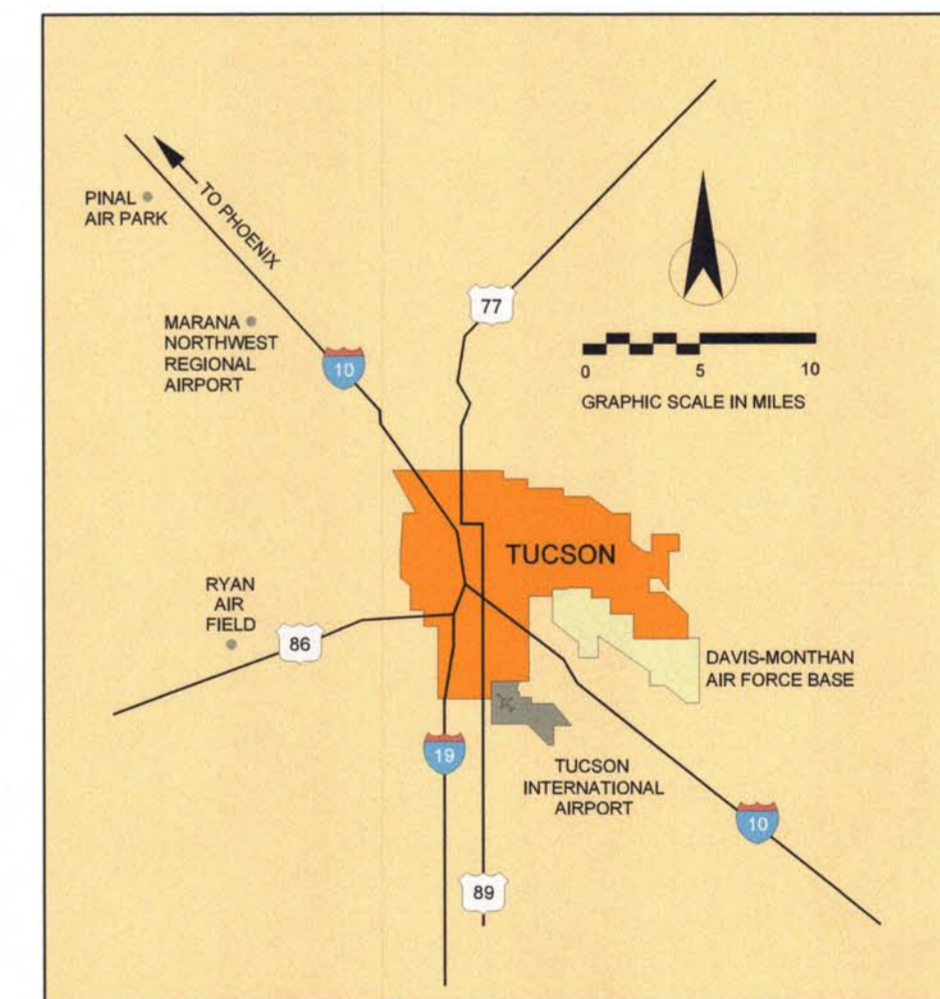
## Tucson, Arizona



ARIZONA STATE MAP



LOCATION MAP



DRAWING INDEX	
SHEET NUMBER	TITLE
1 OF 10	COVER SHEET
2 OF 10	AIRPORT DATA SHEET
3 OF 10	EXISTING AIRPORT LAYOUT PLAN
4 OF 10	EXISTING FACILITIES TABLE
5 OF 10	FUTURE NORTHWEST AIRPORT LAYOUT PLAN (1:600)
6 OF 10	FUTURE AIRPORT LAYOUT PLAN (1:1000)
7 OF 10	RUNWAY 11L-29R OBSTACLE FREE ZONE SHEET
8 OF 10	FUTURE PART 77 SHEET
9 OF 10	FUTURE LAND USE PLAN
10 OF 10	AIRPORT PROPERTY MAP

U.S. Department of Transportation  
Federal Aviation Administration

Western District Region  
Phoenix District Office  
Phoenix Airports Council Office

2802 N. Central Ave.  
Suite 1025 TSP Plaza  
Phoenix, AZ 85712

June 24, 2014

Ms. Bonnie A. Allin  
Tucson Airport Authority  
7005 S. Plumer Avenue  
Tucson, AZ 85756

Dear Ms. Allin:

The Tucson International Airport's Airport Layout Plan (ALP), prepared by HNTB, and hearing your signature, is approved and the master plan is accepted. A signed copy of the approved ALP is enclosed.

An aeronautical study (no. 2013-AWP-1231-NRA) was conducted on the proposed development. This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property on the ground, the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

The FAA has only limited means to prevent the construction of structures near an airport. The airport sponsor has the primary responsibility to protect the airport environs through such means as local zoning ordinances, property acquisition, aviation easements, letters of agreement or other means.

Approval of the plan does not indicate that the United States will participate in the cost of any development proposed. Additionally, the United States will only participate in the cost of projects that meet the standards for which that airport is designed. Associated costs for any projects that exceed the appropriate airport design standard will be the responsibility of the airport sponsor.

This ALP approval is conditioned on acknowledgement that any development on airport property requiring Federal environmental approval must receive such written approval from FAA prior to commencement of the subject development. This ALP approval is also conditioned on acceptance of the plan under local land use laws. We

encourage appropriate agencies to adopt land use and height restrictive zoning based on the plan.

ALP funding requires evidence of eligibility and justification at the time a funding request is ripe for consideration. When construction of any proposed structure or development indicated on the plan is underway, such construction requires normal 45-day advance notification to FAA for review in accordance with applicable Federal Aviation Regulations (i.e., Parts 77, 137, 152, etc.). More notice is generally beneficial to ensure that all statutory, regulatory, technical and operational issues can be addressed in a timely manner. Additionally, any future development that will require amendments to instrument flight procedures must be coordinated by the airport district office and the airport manager to ensure those changes are made in a timely manner.

Please attach this letter to the Airport Layout Plan and retain it in the airport. We wish you great success in your plans for the development of the airport. If we can be of further assistance, please do not hesitate to call Mr. Klyler Eiland, Airport Planner, at 602-792-1073.

Sincerely,

*M. Williams*  
Mila N. Williams A.A.E.  
Manager, Phoenix Airports District Office

cc: ADOT

Enclosure: Updated Airport Layout Plan

APPROVED: *Bonnie Allin*  
TAA Chief Executive Officer Date

REVISION DESCRIPTION	BY	APPRO	DATE
MASTER PLAN UPDATE	JCD		05/15/14
PARTIAL ALP UPDATE	RDJ		08/20/10
ALP UPDATE	RDJ		04/20/10
TIA Revisions	FL		07/30/09
ALP UPDATE	FL		06/15/09
MASTER PLAN UPDATE	RPE	MC	08/09/05
REVALUATION	MC	MFJ	02/17/04
LAND ACQUISITION	RCPMC	MFJ	03/17/00
MASTERPLAN UPDATE	DEJ	CLV	08/14/97

TUCSON AIRPORT AUTHORITY  
TUCSON INTERNATIONAL AIRPORT  
TUCSON, ARIZONA

AIRPORT LAYOUT PLAN  
Cover Sheet

ALP PREPARED BY  
HNTB Corporation

DRAWN BY: JCD/URB CHECKED BY: JAW DATE: MAY 2014

DRAWING NO. SHEET 1 OF 10

10/20/2014 10:20:14 AM C:\Users\jcd\Documents\Projects\Tucson\ALP\Drawings\ALP\Cover Sheet.dwg Plot: Cover Sheet.dwg, 10/20/2014 10:20:14 AM



**RUNWAY DATA TABLE**

CATEGORY	11L		29R		11R		29L		03		21	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE
Physical Length	10,996'	Same	10,996'	Same	8,408'	10,996'	8,408'	10,996'	7,000'	7,000'	Same	7,000'
Runway Width	150'	Same	150'	Same	75'	150'	75'	150'	150'	150'	Same	150'
End Elevation (MSL)	2,578.0'	Same	2,643.0'	Same	2,573.8'	2,629.0'	2,578.0'	2,629.0'	2,572.3'	2,572.3'	Same	2,572.7'
Touchdown Zone Elevation (MSL)	2,598.6'	Same	2,643.0'	Same	2,605.1'	2,598.6'	2,629.0'	2,643.0'	2,572.3'	2,572.3'	Same	2,572.7'
Approach Reference / Runway Design Code	D/IV/2400	Same	D/IV/5000	Same	B/II/VIS	D/IV/5000	B/II/VIS	D/IV/5000	C/III/VIS	Same	C/III/VIS	Same
Pavement Strength (x 1,000 lbs.)	160 S 200 D 350 DT 585 DDT	Same	120 S 200 D 350 DT 585 DDT	Same	140.D 200 D 220.DT N/A DDT	160 S 200 D 350 DT 585 DDT	120.D 200 D 210.DT N/A DDT	160 S 200 D 350 DT 585 DDT	105.S 137.D 230.DT 500 DDT	Same	137.D 230.DT 500 DDT	Same
Runway Lighting	HIRL, MALS, TALS	HIRL, MALS, TALS	HIRL, REIL	Same	MIRL	HIRL, REIL	MIRL, REIL	HIRL, REIL	MIRL	Same	MIRL, REIL	Same
Runway Marking	Precision	Same	Non-Precision	Same	Visual	Precision	Visual	Non-Precision	Visual	Same	Visual	Same
Runway Approach Category / Decision Height	Precision / 201'	Same	NPI - 286'	Same	NPI - 360'	NPI - TBD'	411'	NPI - TBD	NPI - 577'	Same	NPI - 658'	Same
Approach Visibility Minimums (Statute Miles)	0.50 Mile	Same	1.00 Mile	Same	1.25 Mile	1.00 Mile	1.375 Mile	1.00 Mile	1.75 Mile	Same	1.75 Mile	Same
Approach Slope	50:1	Same	34:1	Same	34:1	34:1	34:1	34:1	34:1	Same	34:1	Same
Surface Composition	Asphalt/Concrete	Same	Asphalt/Concrete	Same	Asphalt	Concrete	Asphalt	Concrete	Asphalt	Same	Asphalt	Same
Runway End Coordinates	-Latitude 32° 07' 24.13"	Same	32° 06' 07.16"	Same	32° 07' 19.57"	32° 07' 18.45"	32° 06' 20.72"	32° 06' 01.50"	32° 07' 01.81"	Same	32° 07' 50.73"	Same
	-Longitude 110° 56' 52.48"	Same	110° 55' 22.15"	Same	110° 56' 58.75"	110° 56' 59.15"	110° 55' 49.66"	110° 55' 28.76"	110° 57' 32.55"	Same	110° 56' 34.95"	Same
Displaced Threshold	-Displacement	921'			1,410'	921'			850'			
	-Elevation	2,582.5'			2,585.4'	2,582.5'			2,563.5'			
Displaced Threshold Coordinates -Latitude	N/A	32° 07' 17.18"	N/A	N/A	32° 07' 09.71"	32° 07' 12.05"	N/A	N/A	32° 07' 07.68"	Same	N/A	Same
	-Longitude	110° 56' 47.16"			110° 56' 47.16"	110° 56' 51.53"			110° 57' 25.64"			
Effective Gradient	0.591%	Same	-0.591%	Same	0.656%	0.591%	-0.656%	-0.591%	0.127%	Same	-0.127%	Same
High Elevation	2,643.0'	Same	2,643.0'	Same	2,629.0'	2,643.0'	2,629.0'	2,643.0'	2,572.7'	Same	2,572.7'	Same
Low Elevation	2,578.0'	Same	2,578.0'	Same	2,573.8'	2,578.0'	2,573.8'	2,578.0'	2,560.4'	Same	2,560.4'	Same
Runway Geodetic Azimuth	135° 01' 22.38"	Same	315° 02' 9.60"	Same	135° 01' 22.38"	315° 02' 9.60"	Same	45° 02' 56"	225° 03' 27"	Same	225° 03' 27"	Same
Miscellaneous	Grooved	Same	Grooved	Same	Not Grooved	Grooved	Not Grooved	Grooved	Not Grooved	Same	Not Grooved	Same
Navids and Visual Aids	ILS, GPS, RNAV PAPI, MALS	Same	GPS, RNAV PAPI, REIL	Same	GPS, RNAV PAPI	Same	GPS, RNAV PAPI	GPS, RNAV PAPI	GPS, RNAV PAPI, REIL	Same	PAPI, REIL	Same
Pavement Classification Number (PCN)	81R/B/W/T	Same	81R/B/W/T	Same	38F/B/X/T	81R/B/W/T	38F/B/X/T	81R/B/W/T	72F/A/X/T	Same	72F/A/X/T	Same
Critical Aircraft	Airbus A300	Same	Airbus A300	Same	Beechcraft King Air	Airbus A300	Beechcraft King Air	Airbus A300	Boeing 737-700W	Same	Boeing 737-700W	Same
Critical Aircraft Wingspan	147.1'	Same	147.1'	Same	45.9'	147.1'	45.9'	147.1'	117.42'	Same	117.42'	Same
Critical Aircraft Undercarriage Width	61.1'	Same	61.1'	Same	14'	61.1'	14'	61.1'	18.75'	Same	18.75'	Same
Critical Aircraft Approach Speed	140 Knots	Same	140 Knots	Same	111 Knots	140 Knots	111 Knots	140 Knots	130 Knots	Same	130 Knots	Same
Critical Aircraft Maximum Takeoff Weight	376,000 lbs	Same	376,000 lbs	Same	174,200 lbs	376,000 lbs	172,200 lbs	376,000 lbs	154,500 lbs	Same	154,500 lbs	Same
Line of Sight Requirements	No Obstructions	Same	No Obstructions	Same	No Obstructions	Same	No Obstructions	Same	No Obstructions	Same	No Obstructions	Same

1/ All latitude and longitude coordinates are in North American Datum of 1983 (NAD 83).  
 2/ All elevations in North American Vertical Datum of 1988 (NAVD 88).  
 3/ Blast pads are asphalt.  
 4/ Taxiways are 75' wide unless otherwise stated.  
 5/ Runway Reference Codes have been replaced by Approach and Departure Reference codes which are existing and Runway Design Codes are Proposed. Approach Reference Codes are shown here.  
 6/ Runways and taxiways are asphalt.

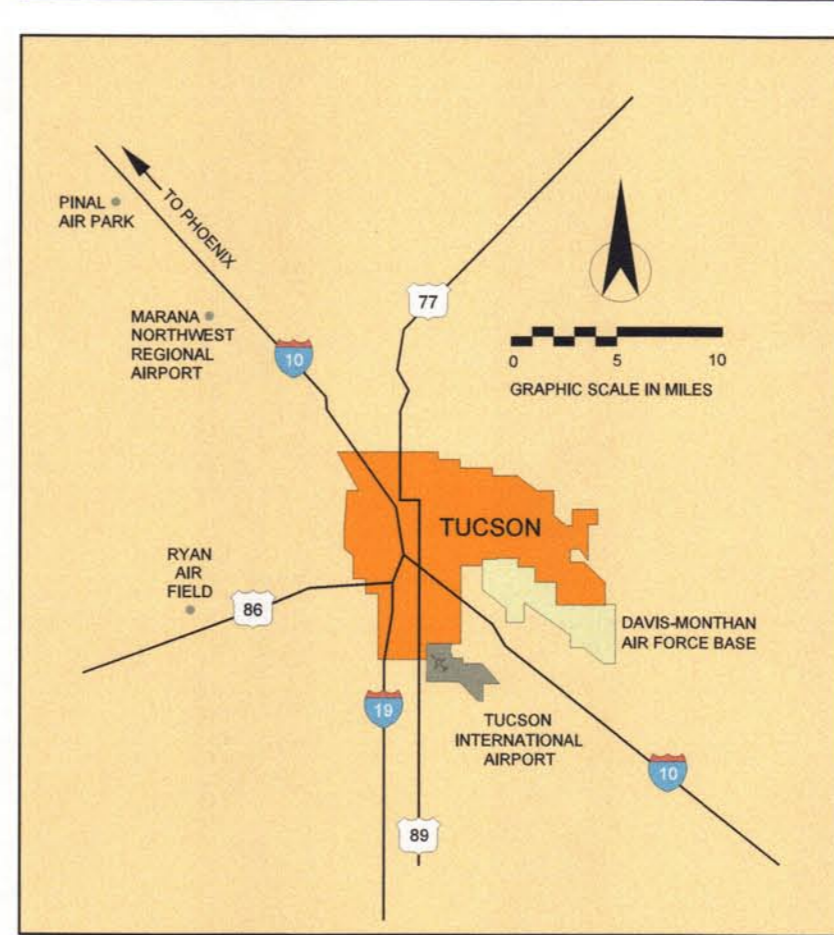
**AIRPORT DATA**

CATEGORY	DATA
AIRPORT NAME	Tucson International Airport
LOCATION (CITY, STATE)	Tucson, Arizona
AIRPORT CATEGORY (NPIAS)	Primary
AIRPORT ELEVATION	2,643.2 FT.
AIRPORT REFERENCE POINT NAD 83 COORDINATES	LAT 32° 06' 57.9"N LONG 110° 56' 27.7"W
PHASE I FUTURE AIRPORT REFERENCE POINT NAD 83 COORDINATES	LAT 32° 06' 53.3"N LONG 110° 56' 23.46"W
PHASE II FUTURE AIRPORT REFERENCE POINT NAD 83 COORDINATES	LAT 32° 06' 44.03"N LONG 110° 55' 48.22"W
MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH	100.2°F (JUNE)
AIRPORT AND TERMINAL NAVIGATION AIDS	MALS, ILS, PAPI ATCT, REIL
AIRPORT PERIMETER AREA	8,330 ACRES
MAGNETIC DECLINATION	10° 13.67' EAST (APRIL 2013)
GPS APPROACH	YES
AIRPORT REFERENCE CODE (ARC)	D-IV
CRITICAL AIRCRAFT	AIRBUS A300-600
MISCELLANEOUS FACILITIES	LIGHTED TAXIWAYS, LIGHTED WINDCONE, AWOS

**LEGEND AIRPORT TERMINOLOGY**

ALSF-II	Approach Light System With Sequenced Flashing Lights (for ILS CAT II and CAT III Precision Approaches)
ARFF	Aircraft Rescue and Firefighting
ARN	Area Navigation
ARP	Airport Reference Point
ASR	Airport Surveillance Radar
ASOS	Automated Surface Observation System
ATCT	Air Traffic Control Tower
AWOS	Automated Weather Observation System
CAT	Category of Instrument Approach
CL	Centerline
Disp Thold	Displaced Threshold
DVOR/DME	Doppler Very High Frequency Omnitrange with Distance Measuring Equipment
GPS	Global Positioning Satellite
GS	Glide Slope
HIRL	High Intensity Runway Lights
ILS	Instrument Landing System
IM	Inner Marker
LLWAS	Low Level Wind Shear Alert System
LOC	Localizer
LOM	Compass Locator with Outer Marker
MALS	Medium Intensity Approach Light System with Runway Alignment Indicator Lights
MIRL	Medium Intensity Runway Lights
MM	Middle Marker
MSL	Elevation Above Mean Sea Level
NPI	Non-Precision Instrumentation
OFA-E	Object Free Area - Extended
OM	Outer Marker
PAPI	Precision Approach Path Indicator
RAIL	Runway Alignment Indicator Lights
REIL	Runway End Identifier Lights
RPZ	Runway Protection Zone
RSA	Runway Safety Area
RTR	Remote Transmitter Receiver
RVR	Runway Visual Range
SRE	Snow Removal Equipment
R/W	Runway
TBR	To Be Removed
TDZ	Touchdown Zone Lights
TDZE	Touchdown Zone Elevation
TALS	Threshold Approach Light System
TW	Taxiway

**LOCATION MAP**



**SURVEY MONUMENTS**

PAC OR SAC	DESIGNATION	PID	LAT. (NAD 83)	LONG. (NAD 83)	ELEVATION
SAC	TUS B	AC6841	32° 07' 52.01"	110° 57' 28.03"	2,549.6'
PAC	TUS A	AC6839	32° 06' 32.76"	110° 55' 34.47"	2,641.9'
SAC	ARP 3 TUS	AC6840	32° 07' 05.11"	110° 56' 34.23"	2,590.1'

1/ Monuments are protected by a concrete encasing.

**PROPOSED DECLARED DISTANCES**

RUNWAY	TORA	TODA	LDA	ASDA
Ultimate 11L	10,996'	10,996'	10,075'	10,996'
Ultimate 29R	10,996'	10,996'	10,996'	10,996'
Ultimate 11R	10,996'	10,996'	10,075'	10,996'
Ultimate 29L	10,996'	10,996'	10,996'	10,996'
Ultimate 3	7,000'	7,000'	6,150'	7,000'
Ultimate 21	6,000'	7,000'	6,000'	6,000'

1/ Only Runway 21 has existing declared distances. Ultimate declared distances are unchanged for Runway 21.  
 2/ TORA - Takeoff Run Available, TODA - Takeoff Distance Available, LDA - Landing Distance Available, ASDA - Accelerate-Stop Distance Available

**RUNWAY PROTECTION ZONE AND RUNWAY SAFETY AREA DIMENSIONS**

RUNWAY	ARRIVAL RPZ (W1, W2, L)	DEPARTURE RPZ (W1, W2, L)	RSA WIDTH	RSA LENGTH BEYOND RWY END	STD RSA LENGTH BEYOND RWY END
Existing 11L	1,000', 1,750', 2,500'	N/A	500'	1,000'	1,000'
Ultimate 11L	1,000', 1,750', 2,500'	N/A	500'	1,000'	1,000'
Existing 29R	500', 1,010', 1,700'	N/A	500'	1,000'	1,000'
Ultimate 29R	500', 1,010', 1,700'	500', 1,010', 1,700'	500'	1,000'	1,000'
Existing 11R	500', 700', 1,000'	N/A	150'	300'	300'
Ultimate 11R	500', 1,010', 1,700'	N/A	500'	1,000'	1,000'
Existing 29L	500', 700', 1,000'	500', 700', 1,000'	150'	300'	300'
Ultimate 29L	500', 1,010', 1,700'	500', 1,010', 1,700'	500'	1,000'	1,000'
Existing 3	500', 1,010', 1,700'	N/A	500'	1,000'	1,000'
Ultimate 3	500', 1,010', 1,700'	N/A	500'	1,000'	1,000'
Existing 21	500', 1,010', 1,700'	500', 1,010', 1,700'	500'	1,000'	1,000'
Ultimate 21	500', 1,010', 1,700'	500', 1,010', 1,700'	500'	1,000'	1,000'

1/ Runway 21 meets the standard for RSA length beyond runway end through declared distances

**OBJECT FREE AREA AND OBSTACLE FREE ZONE DIMENSIONS**

RUNWAY	OFA WIDTH	OFA LENGTH BEYOND RWY END	STD OFA LENGTH BEYOND RWY END	OFZ LENGTH BEYOND RWY END	PRECISION OFZ WIDTH, LENGTH
Existing 11L	800'	1,000'	1,000'	200'	800', 200'
Ultimate 11L	800'	1,000'	1,000'	200'	800', 200'
Existing 29R	800'	1,000'	1,000'	200'	N/A
Ultimate 29R	800'	1,000'	1,000'	200'	N/A
Existing 11R	500'	300'	300'	200'	N/A
Ultimate 11R	800'	1,000'	1,000'	200'	N/A
Existing 29L	500'	300'	300'	200'	N/A
Ultimate 29L	800'	1,000'	1,000'	200'	N/A
Existing 3	800'	1,000'	1,000'	200'	N/A
Ultimate 3	800'	1,000'	1,000'	200'	N/A
Existing 21	800'	1,000'	1,000'	200'	N/A
Ultimate 21	800'	1,000'	1,000'	200'	N/A

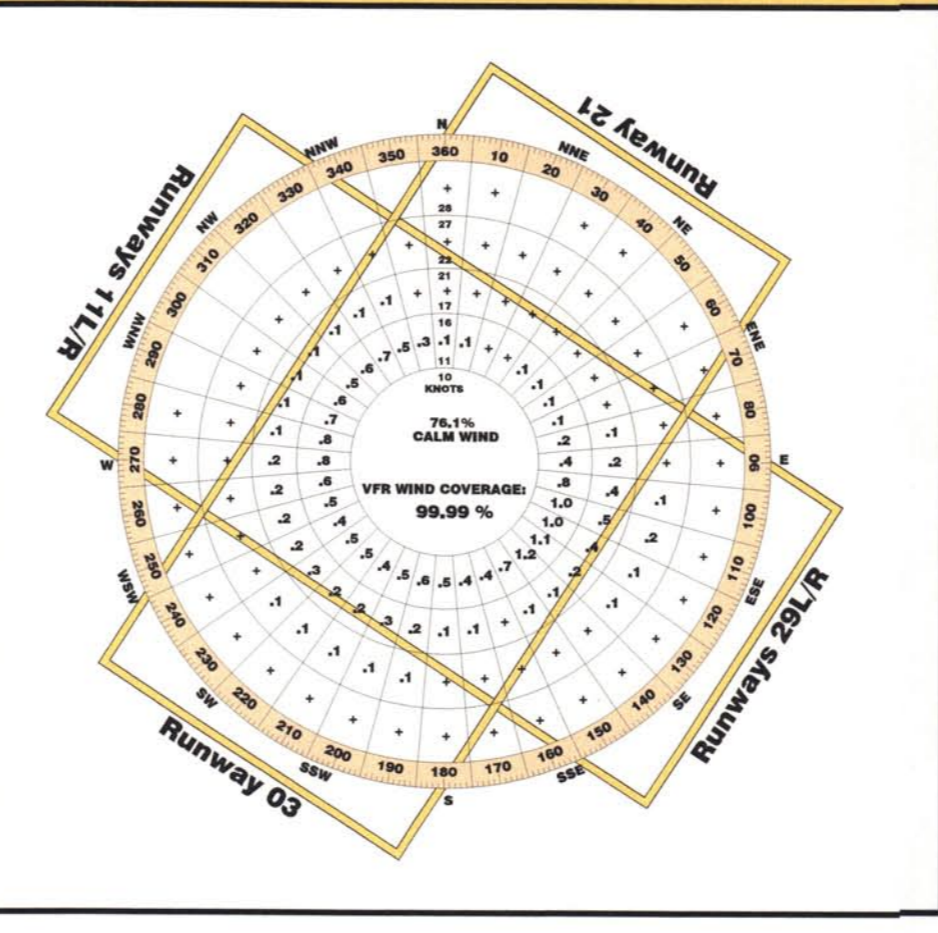
1/ OFA is extended to the end of the Runway Protection Zone for all runways on the ALP layout sheets  
 2/ Runway 21 meets the standard for OFA length beyond runway end through declared distances

**EXISTING SEPARATION AND HOLD BAR DATA**

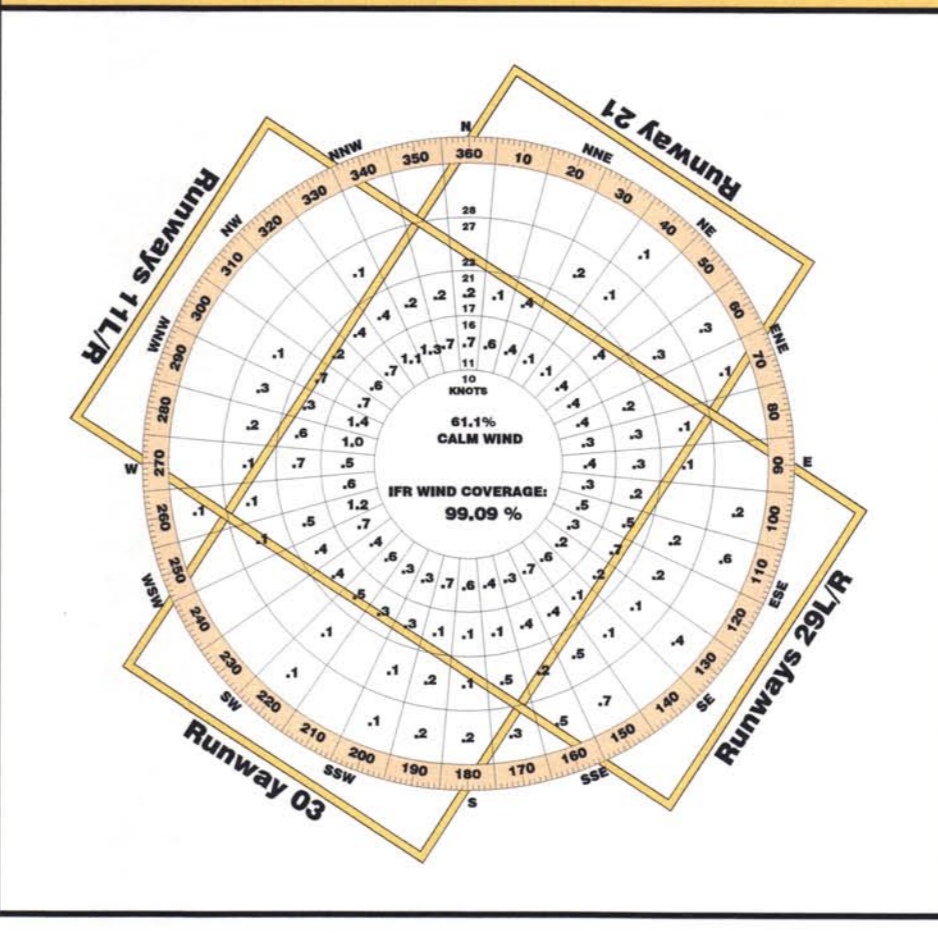
DISTANCE FROM	DISTANCE TO	SEPARATION
Runway 11L-29R Centerline	Runway 11R-29L Centerline	706'
Runway 11L-29R Centerline	Runway 11L-29R Hold Bars	250'
Runway 11R-29L Centerline	Runway 11R-29L Hold Bars	250'
Runway 3-21 Centerline	Runway 3-21 Hold Bars	250'
Runway 11L-29R Centerline	Taxiway A Centerline	537'
Runway 3-21 Centerline	Taxiway D Centerline	536'
ADG IV Taxiway Centerline	Fixed or Moveable Object	129.5'
ADG IV Taxiway Centerline	Parallel Taxiway Centerline	215'
ADG IV Taxiway Safety Area Width		215'
ADG IV Wingtip Clearance		171'
ADG II Taxiway Centerline	Fixed or Moveable Object	65.5'
ADG II Taxiway Centerline	Parallel Taxiway Centerline	105'
ADG II Taxiway Safety Area Width		79'
ADG II Wingtip Clearance		28'

GENERAL NOTES:  
 (1) Weight Values given are gross weight in Thousands of Pounds for Single(S), Dual(D), Dual Tandem(DT) & Double Dual Tandem (DD) Geared Aircraft.  
 (2) All Taxiways are paved with Asphalt Surfaces except portions of Taxiway A4 & A15 adjacent to Runway 11L-29R and Taxiway A17, which are paved with Concrete surfaces.  
 (3) Magnetic Declination is from NOAA Geophysical Data Center.  
 (4) There are NO OFZ OBJECT PENETRATIONS except for frangible Navids. There are No Threshold Siting Surface Object Penetrations.  
 (5) Line of Sight Requirements have been met (AC 150/5300-13 par. 503)

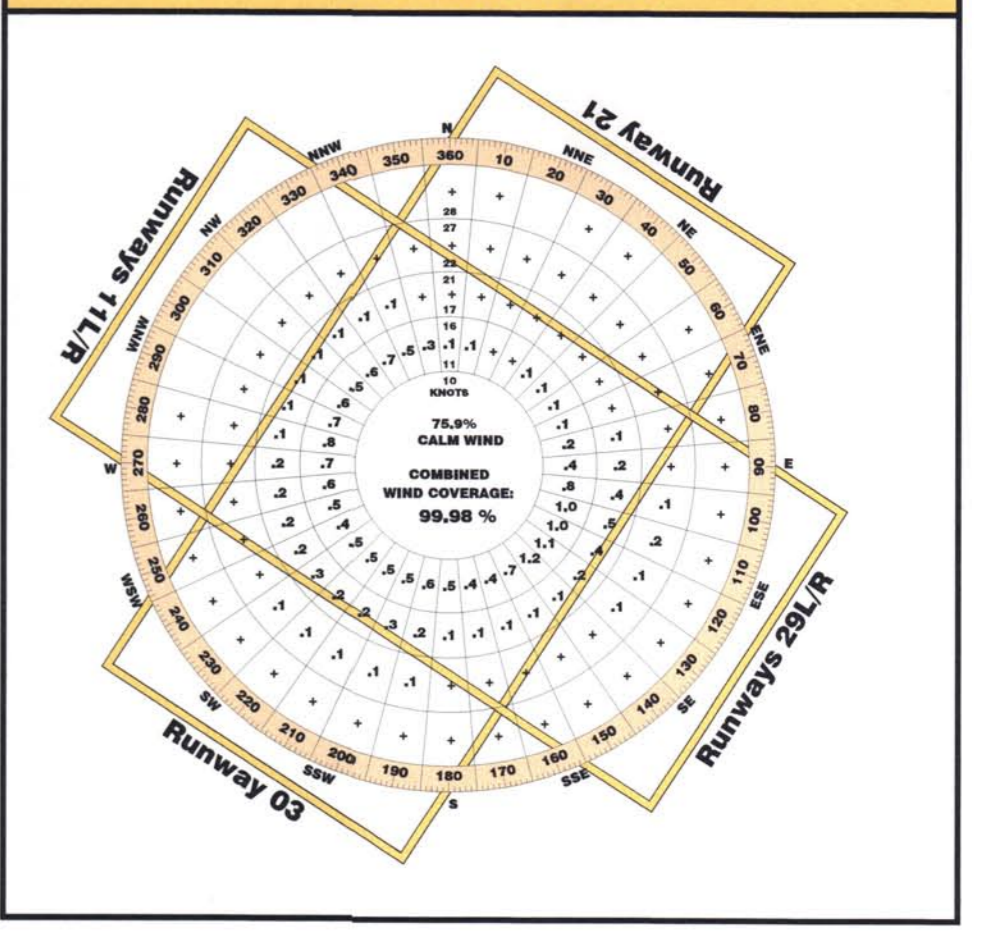
**ALL WEATHER WINDROSE**



**VFR WINDROSE**



**IFR WINDROSE**



**WIND COVERAGE DATA**

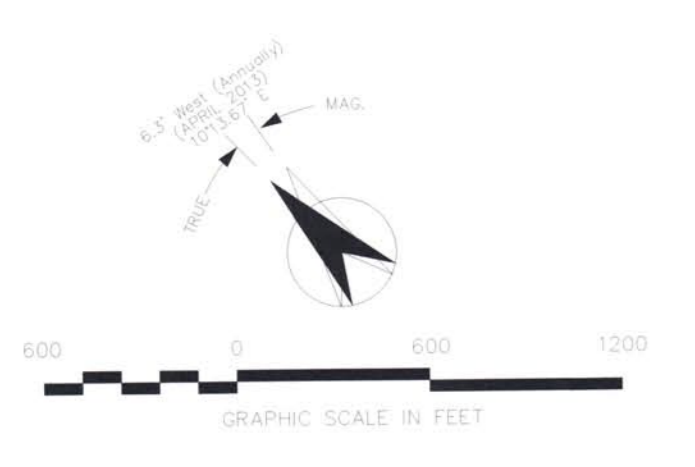
CROSSWIND COMPONENT	VFR COVERAGE	IFR COVERAGE	COMBINED COVERAGE
10.5 Knots	98.53%	92.50%	98.48%
13 Knots	99.59%	96.02%	99.57%
16 Knots	99.91%	97.84%	99.90%
20 Knots	99.91%	99.09%	99.98%

Wind Data Source: NOAA National Climatic Data Center (NCDC)  
 Station: Tucson Intl. Airport - ASOS Station  
 Period of Record: 1994 - 2011  
 No of Observations: 141,918

APPROVED: *Bonnie Alb* 6/6/14  
 TAA Chief Executive Officer Date

MASTER PLAN UPDATE	JCD	05/16/14
PARTIAL ALP UPDATE	RED	06/20/10
ALP UPDATE	RED	04/29/10
TIA Revision	FLI	07/08/09
ALP UPDATE	FLI	06/





**Mixed Industrial  
Commercial / Office  
Residential**

**Industrial**

Existing Facilities Inventory Table is located on Sheet 4 of this ALP set

EXISTING	DESCRIPTION
[Symbol]	AIRPORT BOUNDARY
[Symbol]	AIRFIELD EDGES & DEVELOPMENT
[Symbol]	TAXIWAY-APRON AREAS
[Symbol]	RUNWAY PAVEMENT
[Symbol]	RUNWAY/TAXIWAY SHOULDERS
[Symbol]	CLOSED PAVEMENT
[Symbol]	BUILDING/TRAILER/CANOPY/TANK
[Symbol]	FENCE
[Symbol]	RETAINING WALL
[Symbol]	RAILROAD TRACK
[Symbol]	DRAINAGE SWALE OR CHANNEL
[Symbol]	AIRPORT REFERENCE POINT (A.R.P.)
[Symbol]	SECTION CORNERS
[Symbol]	RUNWAY OBJECT FREE ZONE
[Symbol]	RUNWAY SAFETY AREA
[Symbol]	RUNWAY/TAXIWAY OBJECT FREE AREA
[Symbol]	RUNWAY PROTECTION ZONE
[Symbol]	RUNWAY BUILDING RESTRICTION LINE
[Symbol]	PACS & SACS
[Symbol]	TYPICAL CONTOUR
[Symbol]	MALSA LIGHTING SYSTEM
[Symbol]	ROAD
[Symbol]	RUNWAY HOLD BAR
[Symbol]	WIND SOCK (W-SOCK)
[Symbol]	GLIDE SLOPE (GS)
[Symbol]	LOCALIZER (LOC)
[Symbol]	PRECISION FREE OBSTACLE ZONE (POFZ)
[Symbol]	HELIPORT

- NOTES:**
- Horizontal Datum is NAD83 Arizona Central Stateplane, US Survey Foot.
  - Vertical Datum is NAVD88.
  - Displaced Threshold on RW-3 sited using AC 150/5300 chg 15 Appendix 2, Table A2-1 Type 6: Approach end of runways expected to support instrument straight in night operations serving greater than approach category B aircraft.
  - There are no Threshold Siting Surface or OFZ Object Penetrations for runway ends.
  - Airfield is located within the confines of a military training route/military training area.
  - Basemap linework obtained April 2009 from Pima County.
  - All Taxiways are 75' wide unless noted.
  - All dimensions are in feet unless otherwise noted.
  - Standard RSA for Runway 3-21 achieved via declared distances.
  - Where the BRL coincides with the OFA a linetype of BR/LOFA is used.
  - Holdlines on Runway 11L-29R will be updated to the latest FAA standard of 277' from Runway centerline.
  - ROFA and TOFA have been combined for graphical clarity.
  - Existing Facilities Inventory Table is located on sheet 4 of this ALP set.
  - TSA, ROFA, and TOFA distances are identified on sheet 2 of this ALP set.

APPROVED: *Bonnie Allen* 6/6/14  
TAA Chief Executive Officer Date

REVISION DESCRIPTION	BY	APPD	DATE
MASTER PLAN UPDATE	JCD		06/16/14
PARTIAL ALP UPDATE	RDJ		06/20/10
ALP UPDATE	RDJ		04/20/10
TIA Revision	FLC		07/08/09
ALP UPDATE	FLC		04/15/09
MASTER PLAN UPDATE	SPE	MC	09/09/06
REVALUATION	MC	MFJ	02/17/04
LAND ACQUISITION	HCPMC	MFJ	02/17/00
MASTER PLAN UPDATE	DEJ	CLV	06/14/97

**TUCSON AIRPORT AUTHORITY**  
TUCSON INTERNATIONAL AIRPORT  
TUCSON, ARIZONA

**Existing Airport  
Layout Plan**

ALP PREPARED BY  
**HNTB CORPORATION**

DRAWN BY: JCD/URB CHECKED BY: JAW DATE: MAY 2014  
DRAWING NO. SHEET 3 OF 10




Building No.	Building Address	Bldg. Type	Building Tenant
A-103	1840 E Valencia Rd # 1-1	Hangar	AZ Aviation Association
A-104	1840 E Valencia Rd # 2	Hangar	Velocity Air
A-110	1070 E Valencia Rd	Hangar	Sky West
A-111	1000 E Valencia Rd	Building	TAA
A-112	1000 E Valencia Rd	Building	TAA
A-113	1840 E Valencia Rd # 7	Hangar	Real Air LLC
A-114	1840 E Valencia Rd # 8	Building	Million Air
A-115	1840 E Valencia Rd # 9	Hangar	Velocity Air
A-117	1840 E Valencia Rd # 11	Hangar	Terry Amlong
B-008	1921 E Flightline Dr	Hangar	Atlantic Aviation
B-040	7081 S Plumer Ave	Building	ATC / Executive Terminal
B-065	7077 S Plumer Ave	Building	TAA
B-168	7030 S Plumer Ave	Building	TAA
B-220	7075 S Plumer Ave	Building	TAA
B-221	7071 S Plumer Ave	Building	TAA
B-224	7071 S Plumer Ave	Building	TAA
B-228	1961 E Flightline Dr	Hangar	Tucson Aero Hangars
B-229	7010 S Hangar Way	Hangar	Tucson Aero Hangars
B-230	7250 S Tucson Blvd	Building	Various Tenants
B-231	2622 E Airport Dr	Building	TAA-CAM FUNDED
B-232	7150 S Tucson Blvd	Building	TAA
B-233	7150 S Tucson Blvd	Trailer	TAA
B-235	7280 S Tucson Blvd	Building	ACE Parking
B-239	2600 E Los Reales Rd	Building	Various Cargo Tenants
B-240	6868 S Plumer Ave	Building	Pima County
B-241A	6974 S Hangar Way	Hangar	Atlantic Aviation / Gov-DEA
B-241B	6978 S Hangar Way	Hangar	Apple Auto
B-241C	6980 S Hangar Way	Hangar	Aerospace Hangars
B-242	6990 S Hangar Way	Hangar	TAA - Various Tenants
B-243	2101 E Elvira Rd	Building	TAA
B-244	3500 E Airport Dr	Building	ANG: Vacant-to be removed
B-245	7077 S Plumer Ave	Ramada	TAA
B-246	2101 E Elvira Rd	Building	TAA
B-247	1951 E Airport Dr	Hangar	Hotton Enterprises
B-248	1951 E Airport Dr	Hangar	Hotton Enterprises
B-249	1951 E Airport Dr	Building	Hotton Enterprises
B-251	2101 E Elvira Rd	Building	TAA
B-252	2101 E Elvira Rd	Building	TAA
B-254	2101 E Elvira Rd	Hangar	Southwest Heliservices
B-255	2750 E Airport Dr	Building	FedEx
B-259	2110 E Airport Dr	Building	Sky West
B-264	6909 S Plumer Ave	Building	Avis
B-264A	2340 E Elvira Rd	Building	Avis
B-265	6951 S Plumer Ave	Building	Hertz
B-273	2101 E Elvira Rd	Building	TAA
B-274	2101 E Elvira Rd	Building	TAA
B-276	1951 E Flightline Dr	Ramada	Atlantic Aviation
B-277	1951 E Flightline Dr	Ramada	Atlantic Aviation
B-279	7075 S Plumer Ave	Ramada	TAA
B-280	6666 S Plumer Ave	Hangar	Med Trans Corp
B-281	6702 S Plumer Ave	Hangar	Tucson Police Department
B-282	6720 S Plumer Ave	Building	Tucson Jet Center/Ratliff Aviation

Building No.	Building Address	Bldg. Type	Building Tenant
B-283	6726 S Plumer Ave	Hangar	Ratliff Aviation
B-284	2821 E Airport Dr	Building	TAA
B-285	1951 E Airport Dr	Ramada	Hotton Enterprises
B-286	2791 E Airport Dr	Building	Delta Air Lines
B-288	7000 S Hangar Way	Building	TAA - Various Tenants
B-289	2000 E Airport Dr	Hangar	Lan-Dale, U.S. Border Patrol
B-292	7010 S Plumer Ave	Building	TAA
B-293	2080 E Airport Dr	Hangar	Aerovation
B-298	2800 E Airport Dr	Building	Various Cargo Tenants
B-299	7240 S Tucson Blvd	Building	TAA
B-300	2771 E Airport Dr	Building	Skywest
B-301	7005 S Plumer Ave	Ramada	TAA
B-302	7005 S Plumer Ave	Ramada	TAA
B-303	7005 S Plumer Ave	Transformer	Tucson Electric Power
B-304	7005 S Plumer Ave	Building	TAA
B-305	2020 E Airport Dr	Hangar	Lan-Dale
B-306	2040 E Airport Dr	Hangar	Victor II
B-307	2060 E Airport Dr	Hangar	Aerovation
B-308	6970 S Hangar Way	Hangar	TAA
B-315	2600 E Los Reales Rd	Building	TAA
B-316	2751 E Airport Dr	Building	Sprint Cell Tower
B-400	2601 E Airport Dr	Building	University of Arizona
B-410	7081 S Plumer Ave	Ramada	TAA
B-411	1910 E Flightline Dr	Building	Atlantic Aviation
B-415	2810 E Airport Dr	Building	AERGO
B-416	6750 S Plumer Ave	Hangar	Universal Avionics
B-417	6770 S Plumer Ave	Hangar	HIDTA
B-418	6760 S Plumer Ave	Ramada	TAA
B-419	7275 S Tucson Blvd	Building	TAA-CAM FUNDED
B-420	2620 E Airport Dr	Building	TAA-CAM FUNDED
B-421	2747 E Airport Dr Bldg #2	Building	TAA
B-422	2747 E Airport Dr Bldg #1	Building	TAA
B-423	2747 E Airport Dr	Ramada	TAA
B-427	2747 E Airport Dr	Ramada	TAA
B-429	2700 E Corona Rd	Ramada	TAA
B-430	2700 E Corona Rd	Ramada	TAA
B-FFA	7085 S Plumer Ave	Fuel Farm	TAA
B-FFB	7085 S Plumer Ave	Fuel Farm	TAA
B-FFD	(No Address Assigned)	Fuel Farm	TAA
C-175	1071 E Aero Park Blvd	Building	Flight Safety International
C-176	1555 E Aero Park Blvd Bldg G	Building	Bombardier
C-241	1065 E Aero Park Blvd	Building	FAA
C-266	1065 E Aero Park Blvd	Building	Hughes Credit Union
C-268	1555 E Aero Park Blvd Bldg D	Hangar	Bombardier
C-270	1555 E Aero Park Blvd Bldg C	Building	Bombardier
C-271	1555 E Aero Park Blvd Bldg B	Building	Bombardier
C-285	1555 E Aero Park Blvd Bldg H	Building	Bombardier
C-291	1555 E Aero Park Blvd Bldg K	Hangar	Bombardier
C-292	1555 E Aero Park Blvd Bldg GS2	Building	Bombardier
C-294	1555 E Aero Park Blvd Bldg E	Building	Bombardier
C-295	1555 E Aero Park Blvd Bldg S	Building	Bombardier
C-296	1555 E Aero Park Blvd Bldg J	Hangar	Bombardier

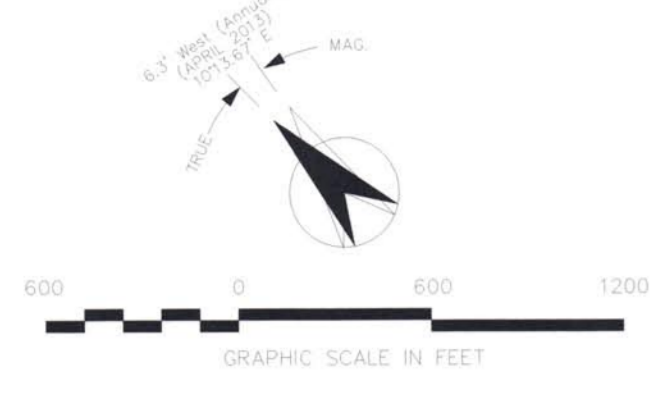
Building No.	Building Address	Bldg. Type	Building Tenant
C-297	1555 E Aero Park Blvd Bldg F	Building	Bombardier
C-300	1555 E Aero Park Blvd #3	Hangar	Bombardier
C-301	1555 E Aero Park Blvd #1, 2	Building	Bombardier
C-303	1146 E Aero Park Blvd #846	Building	A.E. Petsche
C-304	779 E Aero Park Blvd	Transformer	Tucson Electric Power
C-305	1555 E Aero Park Blvd Bldg GS1	Building	Bombardier
C-306	1255 E Aero Park Blvd Bldg Y	Building	Bombardier
C-307	1555 E Aero Park Blvd Bldg X	Hangar	Bombardier
C-308	1555 E Aero Park Blvd Bldg LB	Building	Bombardier
C-309	1555 E Aero Park Blvd Bldg LA	Ramada	TAA
C-802	1151 E Hermans Rd #802	Building	Raytheon
C-803	1151 E Hermans Rd #803	Building	Raytheon
C-805	1870 E Aero Park Blvd	Building	Raytheon
C-807	1870 E Aero Park Blvd	Building	Raytheon
C-808	1151 E Hermans Rd #808	Building	Raytheon
C-840	1151 E Hermans Rd #840	Building	Raytheon
C-842	1151 E Hermans Rd #842	Building	Raytheon
C-843	1151 E Hermans Rd #843	Building	Raytheon
C-844	1151 E Hermans Rd #844	Building	Raytheon
C-845	1950 E Aero Park Blvd	Hangar	Raytheon
C-847	1151 E Hermans Rd #847	Building	Raytheon
C-848	1151 E Hermans Rd #848	Building	Raytheon
C-FFE	1067 E Aero Park Blvd	Fuel Farm	Bombardier
D-1-1	850 E Teton	Hangar	Various Tenants
D-2-2	850 E Teton	Hangar	Various Tenants
D-3-3	850 E Teton	Hangar	Various Tenants
D-4	6971 S Apron Dr	Hangar	Velocity Air
D-5	6961 S Apron Dr	Hangar	Velocity Air
D-6	6961 S Apron Dr	Building	Velocity Air
D-7	6961 S Apron Dr	Hangar	Velocity Air (2 Bldgs)
D-8	6961 S Apron Dr	Building	Velocity Air
D-31	7001 S Apron Dr	Building	Civil Air Patrol (3 units)
D-71-18	950 E Susana St	Building	TAA
D-101-9/10	7001 S Apron Dr	Building	TAA
D-111	7001 S Apron Dr	Building	TAA
D-153	855 E Teton	Building	Ascent
D-158	850 E Teton	Building	TAA - TIC
D-159	850 E Teton	Building	TAA
D-167	6900 S Park Ave	Building	GA Telesis
D-250	7001 S Park Ave	Vacant Lot	Ascent
D-252	6951 S Park Ave	Trailer	Ascent
D-260	6899 S Park Ave	Hangar	Ascent
D-261	7025 S Apron Dr	Building	TAA
D-262	7031 S Apron Dr	Building	TAA
D-267	6901 S Park Ave	Building	Ascent
D-268	6901 S Park Ave	Building	Ascent
D-269	6980 S Apron Dr	Ramada	Ascent
D-273	7211 S Park Ave	Hangar	Pima Community College
D-FFC	6805 S Park Ave	Fuel Farm	TAA

NOTES:  
1. Building heights will be surveyed during a future AGIS compliant e-ALP survey update.

APPROVED: *Bonnie Allen* 6/2/14  
TAA Chief Executive Officer Date

 <b>TUCSON AIRPORT AUTHORITY</b> TUCSON INTERNATIONAL AIRPORT TUCSON, ARIZONA <b>Existing Facilities Table</b>	
ALP PREPARED BY <b>HNTB CORPORATION</b>	
DRAWN BY: JCD/JRB CHECKED BY: JAW DATE: MAY 2014	DRAWING NO. SHEET 4 OF 10





MIXED INDUSTRIAL  
COMMERCIAL / OFFICE  
RESIDENTIAL

FUTURE R/W 12-30 CONCEPTUAL ALIGNMENT  
F40

FUTURE TERMINAL  
DEVELOPMENT AREA

- FUTURE PROJECTS LEGEND**
- F1 Terminal Concourse Expansion West
  - F2 Terminal Concourse Expansion East
  - F3 Surface Lot Solar Panels Installation
  - F4 RAC Top level Solar Panels Installation
  - F5 Rental Car Fueling & Washrack expansion
  - F6 Rental Car Storage Area
  - F7 Expanded Economy Lot
  - F8 Economy Lot Solar Panels Installation
  - F9 Country Club Road Extension Ph. I
  - F10 Country Club Road Extension Ph. II
  - F11 Taxiway G Extension Ph. II and III
  - F12 Taxiway G Extension Ph. IV
  - F13 Extended Blast Pad
  - F14 Taxiway A4 & A17 Extensions
  - F15 New Taxiway entrances for South Runup
  - F16 New South Perimeter Road & Fence
  - F17 Potential Cargo Pad Impacts
  - F18 Remove Taxiway A14
  - F19 New Center Parallel Taxiway
  - F20 ARFF Station
  - F21 Relocate Runway 11R-29L
  - F22 Extend Taxiway A8
  - F23 Remove Taxiways A7 & A9
  - F24 Relocate Drainageway
  - F25 Outboard Parallel Taxiway
  - F26 Future Air Traffic Control Tower
  - F27 Displace Runway 11L Threshold
  - F28 Remove Taxiway T
  - F29 Relocate 11L Glideslope & MALS/R
  - F30 Future Helicopter Facility

- FUTURE PROJECTS LEGEND**
- F31 Future GA Development Area
  - F32 Straighten Taxiway D2
  - F33 Close Taxiway A2
  - F34 Reconfigure TWY B from West ramp
  - F35 Construct new bypass taxiway
  - F36 Construct Itinerant Aircraft Parking
  - F37 Taxiway from West ramp to Runway 3
  - F38 Relocated/New PAPI systems
  - F39 Fuel Farm
  - F40 Development of far Parallel Runway

**LEGEND**

EXISTING	FUTURE	DESCRIPTION
[Symbol]	[Symbol]	AIRPORT BOUNDARY
[Symbol]	[Symbol]	AIRFIELD EDGES & DEVELOPMENT
[Symbol]	[Symbol]	RUNWAY/TAXIWAY APRON AREAS
[Symbol]	[Symbol]	RUNWAY/TAXIWAY SHOULDERS
[Symbol]	[Symbol]	BUILDING/TRAILER/CANOPY/TANK TO BE DEMOLISHED/RELOCATED
[Symbol]	[Symbol]	HELIPORT
[Symbol]	[Symbol]	FENCE
[Symbol]	[Symbol]	RETAINING WALL
[Symbol]	[Symbol]	RAILROAD TRACK
[Symbol]	[Symbol]	WINDSOCK (WS)
[Symbol]	[Symbol]	AIRPORT REFERENCE POINT (A.R.P.)
[Symbol]	[Symbol]	SECTION CORNER
[Symbol]	[Symbol]	PAVEMENT TO BE ABANDONED
[Symbol]	[Symbol]	RUNWAY OBJECT FREE ZONE
[Symbol]	[Symbol]	RUNWAY SAFETY AREA
[Symbol]	[Symbol]	RUNWAY/TAXIWAY OBJECT FREE AREA
[Symbol]	[Symbol]	RUNWAY PROTECTION ZONE
[Symbol]	[Symbol]	RUNWAY BUILDING RESTRICTION LINE
[Symbol]	[Symbol]	FACES & SACS
[Symbol]	[Symbol]	TYPICAL CONTOUR
[Symbol]	[Symbol]	ROAD
[Symbol]	[Symbol]	MALS LIGHTING SYSTEM
[Symbol]	[Symbol]	RUNWAY HOLD BAR / ILS HOLD BAR
[Symbol]	[Symbol]	LOCALIZER (LOC)
[Symbol]	[Symbol]	PRECISION OBSTACLE FREE ZONE (POFZ)

- NOTES:**
- Horizontal Datum is NAD83 Arizona Central Stateplane, US Survey Foot.
  - Vertical Datum is NAVD88.
  - Displaced Threshold on RW-3 sited using AC 150/5300 chg 15 Appendix 2, Table A2-1 Type 6; Approach end of runways expected to support instrument straight in night operations serving greater than approach category B aircraft.
  - There are no Threshold Siting Surface or OFZ Object Penetrations.
  - Airfield is located within the confines of a military training route/military training area.
  - Basecamp linework obtained April 2009 from Pima County.
  - All Taxiways are 75' wide unless noted.
  - All dimensions are in feet unless otherwise noted.
  - For the list of Existing Facilities please reference Sheet 4 of this ALP set.
  - Typical blast pad dimensions for a D-IV airport are 200' x 200'.

Approved conditionally  
Subject to comments contained in our letter dated  
FEDERAL AVIATION ADMINISTRATION  
Western-Pacific Region  
By: [Signature]

APPROVED: [Signature]  
TAA Chief Executive Officer Date

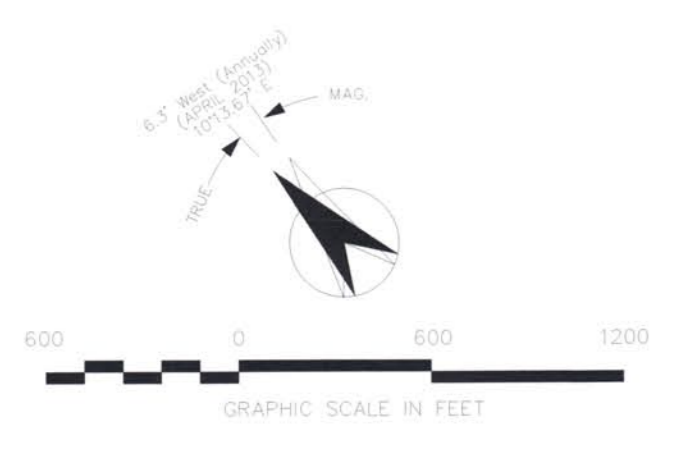
REVISION DESCRIPTION	BY	APPD	DATE
MASTER PLAN UPDATE	JCD	MC	05/01/14
PARTIAL ALP UPDATE	ROJ	MC	05/02/14
ALP UPDATE	ROJ	MC	04/29/14
CAPTION & EIS RUNWAY LAYOUT	TAJ	MC	2/20/10
TIA Revision	FL	MC	07/09/09
ALP UPDATE	FL	MC	06/16/09
MASTER PLAN UPDATE	RPE	MC	09/09/05
REVALUATION	MC	MC	02/17/04
LAND ACQUISITION	RC/MAC	MC	02/17/00
MASTER PLAN UPDATE	DEJ	CLV	08/14/97

**TUCSON**  
AIRPORT AUTHORITY  
TUCSON INTERNATIONAL AIRPORT -RYAN AIRFIELD  
ALP PREPARED BY  
HNTB Corporation

TUCSON AIRPORT AUTHORITY  
TUCSON INTERNATIONAL AIRPORT  
TUCSON, ARIZONA  
**Future Northwest Airport  
Layout Plan  
1:600**  
DRAWN BY: JCD/JRB CHECKED BY: JAW DATE: MAY 2014  
DRAWING NO. SHEET 5 OF 10

THE CONTENTS OF THIS PLAN DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA OR ADOT AERONAUTICS. ACCEPTANCE OF THIS EXHIBIT BY THE FAA AND ADOT AERONAUTICS DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES OR THE STATE OF ARIZONA TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS.





- FUTURE PROJECTS LEGEND**
- F1 Terminal Concourse Expansion West
  - F2 Terminal Concourse Expansion East
  - F3 Surface Lot Solar Panels Installation
  - F4 RAC Top level Solar Panels Installation
  - F5 Rental Car Fueling & Washrack expansion
  - F6 Rental Car Storage Area
  - F7 Expanded Economy Lot
  - F8 Economy Lot Solar Panels Installation
  - F9 Country Club Road Extension Ph. I
  - F10 Country Club Road Extension Ph. II
  - F11 Taxiway G Extension Ph. II and III
  - F12 Taxiway G Extension Ph. IV
  - F13 Extended Blast Pad
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  - F15 New Taxiway entrances for South Runup
  - F16 New South Perimeter Road & Fence
  - F17 Potential Cargo Pad Impacts
  - F18 Remove Taxiway A14
  - F19 New Center Parallel Taxiway
  - F20 ARFF Station
  - F21 Relocate Runway 11R-29L
  - F22 Extend Taxiway A8
  - F23 Remove Taxiways A7 & A9
  - F24 Relocate Drainage
  - F25 Outboard Parallel Taxiway
  - F26 Future Air Traffic Control Tower
  - F27 Displace Runway 11L Threshold
  - F28 Remove Taxiway T
  - F29 Relocate 11L Glideslope & MALS
  - F30 Future Helicopter Facility

- FUTURE PROJECTS LEGEND**
- F31 Future GA Development Area
  - F32 Straighten Taxiway D2
  - F33 Close Taxiway A2
  - F34 Reconfigure TWY B from West ramp
  - F35 Construct new bypass taxiway
  - F36 Construct Itinerant Aircraft Parking
  - F37 Taxiway from West ramp to Runway 3
  - F38 Relocated/New PAPI systems
  - F39 Fuel Farm
  - F40 Development of far Parallel Runway

**LEGEND**

EXISTING	FUTURE	DESCRIPTION
[Symbol]	[Symbol]	AIRPORT BOUNDARY
[Symbol]	[Symbol]	AIRFIELD EDGES & DEVELOPMENT
[Symbol]	[Symbol]	RUNWAY/TAXIWAY APRON AREAS
[Symbol]	[Symbol]	RUNWAY/TAXIWAY SHOULDERS
[Symbol]	[Symbol]	BUILDING/TRAILER/CANOPY/TANK TO BE DEMOLISHED/RELOCATED
[Symbol]	[Symbol]	HELIPORT
[Symbol]	[Symbol]	FENCE
[Symbol]	[Symbol]	RETAINING WALL
[Symbol]	[Symbol]	RAILROAD TRACK
[Symbol]	[Symbol]	WINDSOCK (WS)
[Symbol]	[Symbol]	AIRPORT REFERENCE POINT (A.R.P.)
[Symbol]	[Symbol]	SECTION CORNER
[Symbol]	[Symbol]	PAVEMENT TO BE ABANDONED
[Symbol]	[Symbol]	RUNWAY OBJECT FREE ZONE
[Symbol]	[Symbol]	RUNWAY SAFETY AREA
[Symbol]	[Symbol]	RUNWAY/TAXIWAY OBJECT FREE AREA
[Symbol]	[Symbol]	RUNWAY PROTECTION ZONE
[Symbol]	[Symbol]	RUNWAY BUILDING RESTRICTION LINE
[Symbol]	[Symbol]	PACE & SACS
[Symbol]	[Symbol]	TYPICAL CONTOUR
[Symbol]	[Symbol]	ROAD
[Symbol]	[Symbol]	MALS LIGHTING SYSTEM
[Symbol]	[Symbol]	RUNWAY HOLD BAR / ILS HOLD BAR
[Symbol]	[Symbol]	LOCALIZER (LOC)
[Symbol]	[Symbol]	PRECISION OBSTACLE FREE ZONE (POFZ)

- NOTES:**
- Horizontal Datum is NAD83 Arizona Central Stateplane, US Survey Foot.
  - Vertical Datum is NAVD88.
  - Displaced Threshold on RW-3 sited using AC 150/5300 chg 15 Appendix 2, Table A2-1 Type 6: Approach end of runways expected to support instrument straight in night operations serving greater than approach category B aircraft.
  - There are no Threshold Siting Surface or OFZ Object Penetrations.
  - Airfield is located within the confines of a military training route/military training area.
  - Basemap linework obtained April 2009 from Pima County.
  - All Taxiways are 75' wide unless noted.
  - All dimensions are in feet unless otherwise noted.
  - For the list of Existing Facilities please reference Sheet 4 of this ALP set.
  - Typical blast pad dimensions for a D-IV airport are 200' x 200'.

THE CONTENTS OF THIS PLAN DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA OR ADOT AERONAUTICS. ACCEPTANCE OF THIS EXHIBIT BY THE FAA AND ADOT AERONAUTICS DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES OR THE STATE OF ARIZONA TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS.

Approved conditionally June 24, 2014  
 Subject to comments contained in our letter dated June 24, 2014  
 FEDERAL AVIATION ADMINISTRATION  
 Western-Pacific Region  
 By: [Signature]  
 Manager / Assistant Manager - Program/ADU

APPROVED: [Signature] 6/24/14  
 TAA Chief Executive Officer Date

REVISION DESCRIPTION	BY	APPD	DATE
MASTER PLAN UPDATE	JCD	MC	08/16/14
PARTIAL ALP UPDATE	RDJ	MC	08/20/10
ALP UPDATE	RDJ	MC	04/29/10
OPTION 9 BSS RUNWAY LAYOUT	TJG	MC	02/19/10
TSA Revisions	FLL	MC	07/05/09
ALP UPDATE	FLL	MC	05/15/09
MASTER PLAN UPDATE	RPE	MC	08/06/05
REVALUATION	MC	MFJ	02/17/04
LAND ACQUISITION	RCPMC	MFJ	02/17/00
MASTERPLAN UPDATE	DEJ	CLV	08/14/97

**TUCSON AIRPORT AUTHORITY**  
**TUCSON INTERNATIONAL AIRPORT**  
 TUCSON, ARIZONA

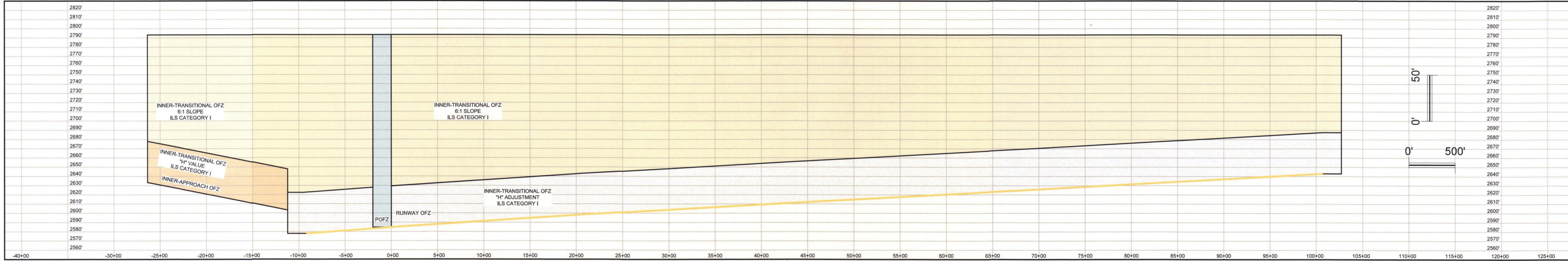
**Future Airport Layout Plan**  
**1:1000**

ALP PREPARED BY  
**HNTB Corporation**

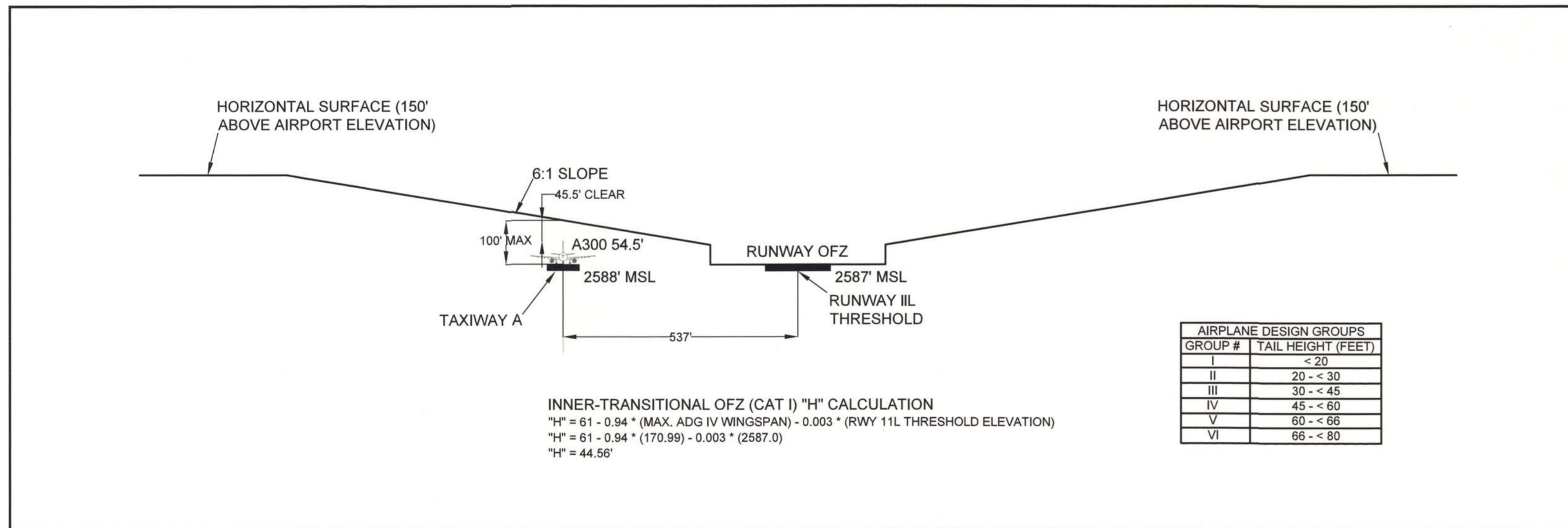
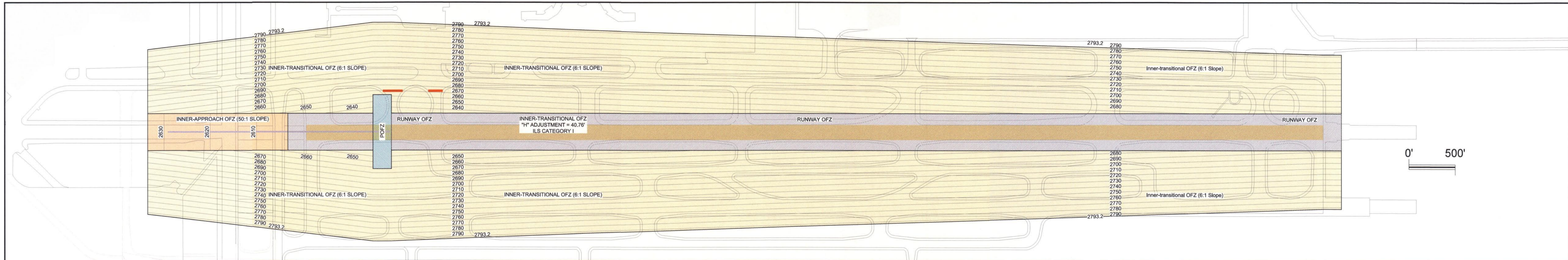
DRAWN BY: JCD/RB CHECKED BY: JAW DATE: MAY 2014  
 SHEET 6 OF 10



PROFILE VIEW

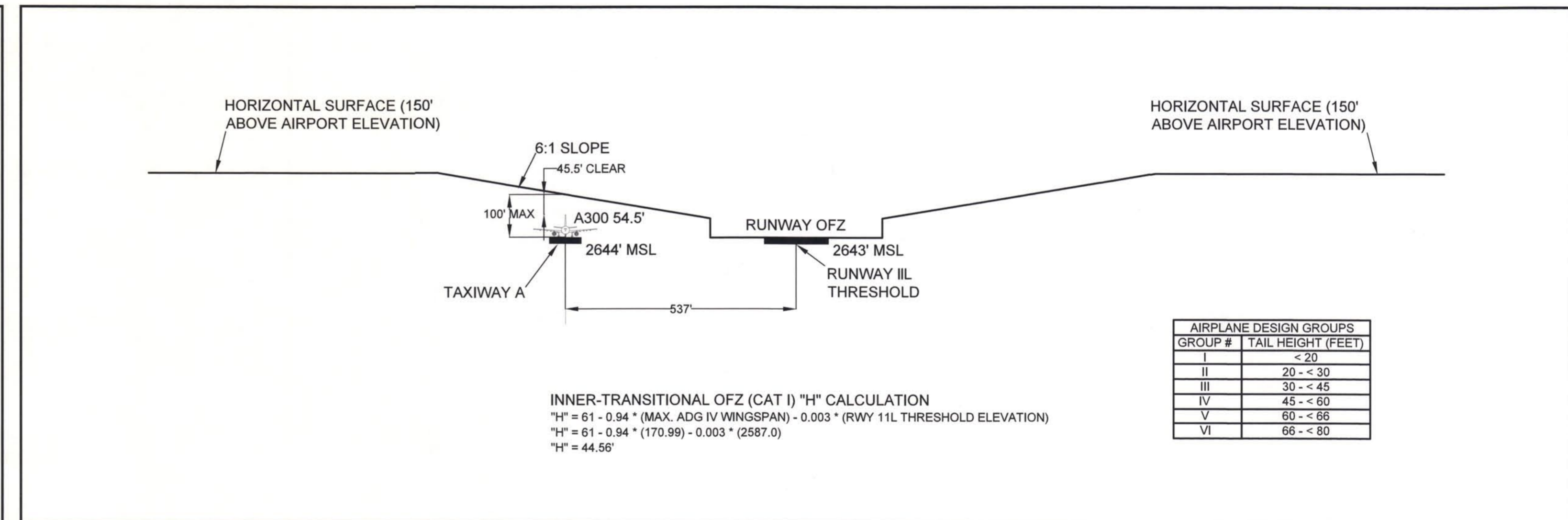


PLAN VIEW



AIRPLANE DESIGN GROUPS	
GROUP #	TAIL HEIGHT (FEET)
I	< 20
II	20 - < 30
III	30 - < 45
IV	45 - < 60
V	60 - < 66
VI	66 - < 80

INNER-TRANSITIONAL OFZ (CAT I) "H" CALCULATION  
 $H^* = 61 - 0.94 * (\text{MAX. ADG IV WINGSpan}) - 0.003 * (\text{RWY 11L THRESHOLD ELEVATION})$   
 $H^* = 61 - 0.94 * (170.99) - 0.003 * (2587.0)$   
 $H^* = 44.56'$



AIRPLANE DESIGN GROUPS	
GROUP #	TAIL HEIGHT (FEET)
I	< 20
II	20 - < 30
III	30 - < 45
IV	45 - < 60
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INNER-TRANSITIONAL OFZ (CAT I) "H" CALCULATION  
 $H^* = 61 - 0.94 * (\text{MAX. ADG IV WINGSpan}) - 0.003 * (\text{RWY 11L THRESHOLD ELEVATION})$   
 $H^* = 61 - 0.94 * (170.99) - 0.003 * (2587.0)$   
 $H^* = 44.56'$

LEGEND	
(Future line)	INNER-APPROACH OBSTACLE FREE ZONE
(Dotted line)	INNER-TRANSITIONAL OBSTACLE FREE ZONE
(Solid line)	RUNWAY OBSTACLE FREE ZONE
(Dashed line)	PRECISION OBSTACLE FREE ZONE
(Thick solid line)	RUNWAY 11L-29R
(Thin solid line)	RUNWAY HOLD POSITION
(Dashed line)	ILS HOLD POSITION
(Thin solid line)	MALS

Note: Obstructions will be determined pending an upcoming Airports-GIS survey.

APPROVED: *Bonnie Alth* 6/26/14  
 TAA Chief Executive Officer Date

REVISION DESCRIPTION	BY	APPD	DATE	REVISION DESCRIPTION	BY	APPD	DATE

**TUCSON AIRPORT AUTHORITY**  
 AIRPORT AUTHORITY  
 TUCSON INTERNATIONAL AIRPORT-RYAN AIRFIELD  
 ALP PREPARED BY  
 HNTB Corporation

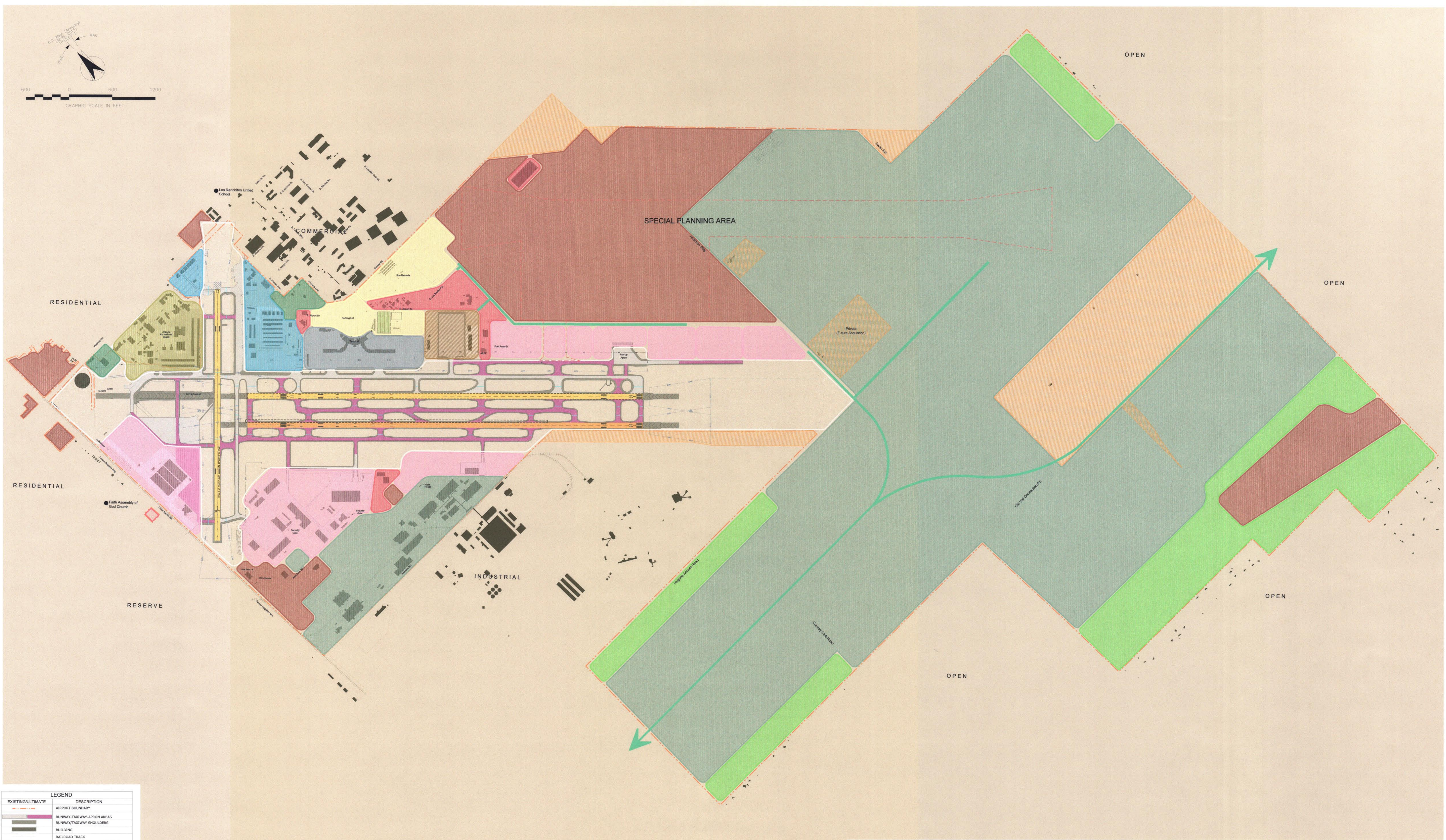
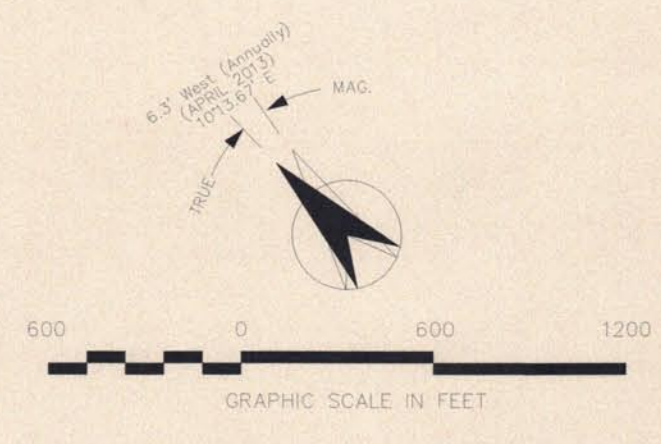
TUCSON AIRPORT AUTHORITY  
 TUCSON INTERNATIONAL AIRPORT  
 TUCSON, ARIZONA  
**Runway 11L-29R**  
**Obstacle Free Zone Sheet**

DRAWN BY: SUL/URB CHECKED BY: JAW DATE: MAY 2014  
 DRAWING NO. SHEET 7 OF 10









LEGEND	
EXISTING/ULTIMATE	DESCRIPTION
	AIRPORT BOUNDARY
	RUNWAY/TAXIWAY-APRON AREAS
	RUNWAY/TAXIWAY SHOULDERS
	BUILDING
	RAILROAD TRACK
	RUNWAY PROTECTION ZONE
	SECTION CORNER
	ROAD
LAND USE LEGEND	
	AIRFIELD
	TERMINAL
	AIRPORT LANDSIDE
	AIRPORT SUPPORT
	CARGO
	GENERAL AVIATION
	MIXED USE AVIATION
	AVIATION INDUSTRIAL
	AIR NATIONAL GUARD
	RESERVE
	COMMERCIAL
	INDUSTRIAL
	PROPERTY TO BE ACQUIRED
	ROADWAY
	SPECIAL PLANNING AREA BOUNDARY

SOURCE: Existing land uses are based on field verification and County Assessor records; Future land uses are from the 2013 Tucson International Airport Master Plan update

APPROVED: *Bonnie All*  
TAA Chief Executive Officer Date

REVISION DESCRIPTION	BY	APPD	DATE
MASTER PLAN UPDATE	JCD		05/15/14
PARTIAL ALP UPDATE	ROJ		06/20/10
ALP UPDATE	TJS		04/23/10
TIA Revisions	FLL		07/25/09
ALP UPDATE	FLL		06/15/09
MASTER PLAN UPDATE	RPE	MC	06/05/05
REVALUATION	MC	MFJ	02/17/04
LAND ACQUISITION	ICP/MC	MFJ	02/17/00
MASTER PLAN UPDATE	DEJ	CLV	08/14/97

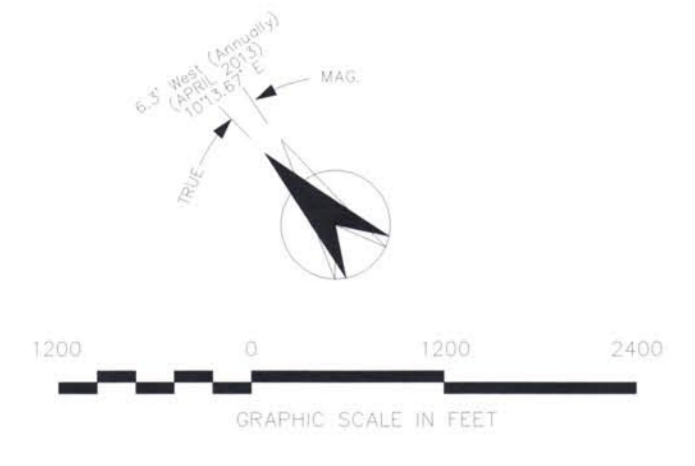


TUCSON AIRPORT AUTHORITY  
TUCSON INTERNATIONAL AIRPORT  
TUCSON, ARIZONA  
Future Land Use Plan

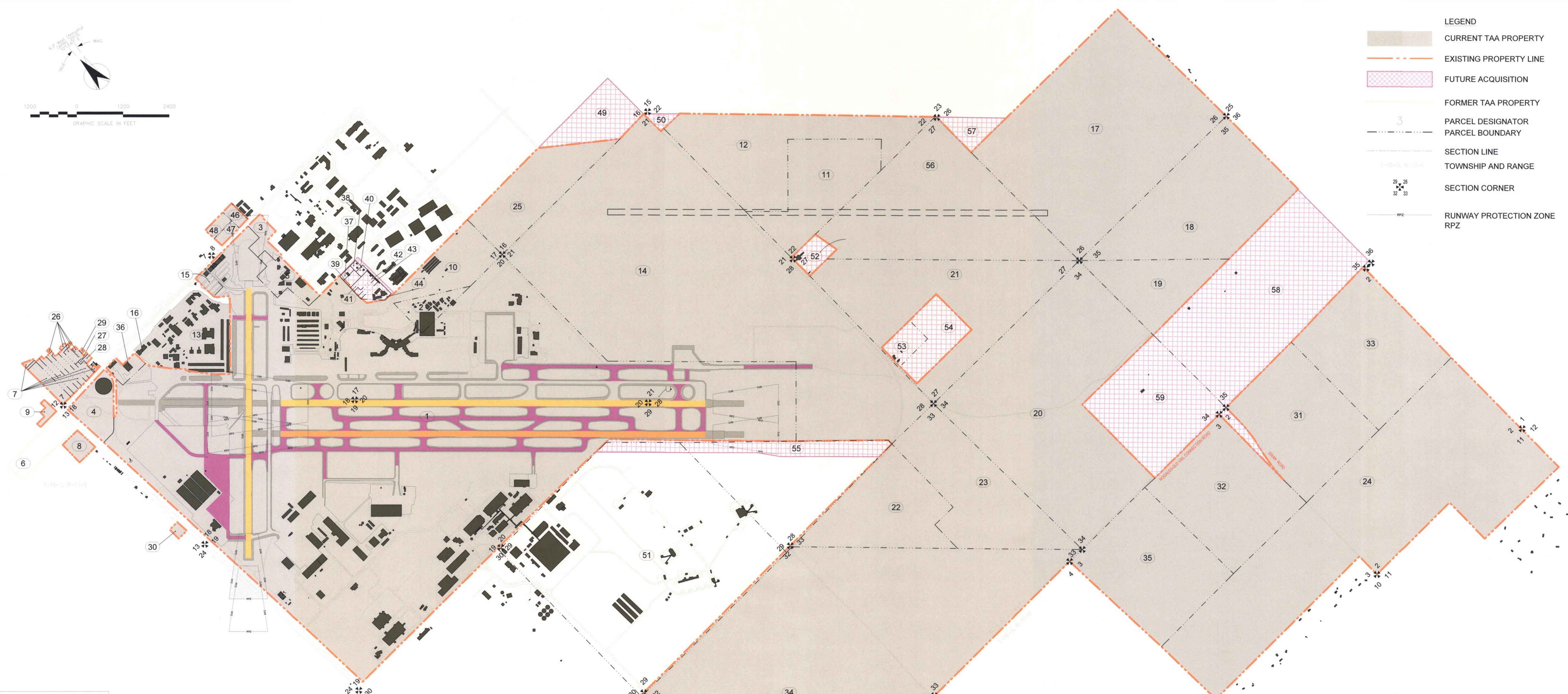
DRAWN BY: JCD/URB CHECKED BY: JAW DATE: MAY 2014  
SHEET 9 OF 10

THE CONTENTS OF THIS PLAN DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA OR ADOT AERONAUTICS. ACCEPTANCE OF THIS EXHIBIT BY THE FAA AND ADOT AERONAUTICS DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES OR THE STATE OF ARIZONA TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS





- LEGEND**
- CURRENT TAA PROPERTY
  - EXISTING PROPERTY LINE
  - FUTURE ACQUISITION
  - FORMER TAA PROPERTY
  - PARCEL DESIGNATOR
  - PARCEL BOUNDARY
  - SECTION LINE
  - TOWNSHIP AND RANGE
  - SECTION CORNER
  - RUNWAY PROTECTION ZONE RPZ



**PROPERTY ACQUISITION**  
TABLE 2 of 2

PARCEL	FUNDING SOURCE	DATE OF ACQUISITION	ACRES	NAME OF SELLER	COST OF LAND AND IMPROVEMENTS	REMARKS
1			2362			ORIGINAL AIRPORT BOUNDARY
2	FAAP 9-02-010-5912	1/6/61	23.3	UNKNOWN	\$24,689.90	
3	FAAP 9-02-010-C217	5/15/62	7.7	VARIOUS OWNERS	\$41,999.56	
4	FAAP 9-02-010-C318	5/17/62	31.5	ELIZABETH DALY	\$102,750.00	
5	FAAP 9-02-010-C419	4/17/64	15.1	VARIOUS OWNERS	\$75,925.00	
6	ADAP 8-04-0045-04	10/24/74	25	SUNNYSIDE SCHOOL DISTRICT #12	\$1,703,978.00	RELEASED TO UNIVERSITY OF ARIZONA 1/10/97
7	ADAP 8-04-0045-04	1974-1975	19.5	VARIOUS OWNERS	\$713,181.20	
8	ADAP 8-04-0045-04	8/1/75	11	AMOS/SWINGLE	\$105,000.00	
9	ADAP 8-04-0045-04	1974-1976	4	VARIOUS OWNERS	\$289,305.00	
10	ADAP 8-04-0045-13	3/2/81	53	HOWARD HUGHES ESTATE	\$3,000,000.00	
11	AIP-3-04-0045-05 (NOISE, CONVERTED TO DEVELOPMENT)	12/11/85	120	PIMA SERVICE CORPORATION	\$2,531,997.60	CONVERTED TO AIP ELIGIBLE LAND, FUTURE RUNWAY DEVELOPMENT
12	AIP-3-04-0045-05 (DEVELOPMENT)	12/11/85	138	PIMA SERVICE CORPORATION	\$3,565,896.62	
13	NA		84	TUCSON AIRPORT AUTHORITY	NA	TRADED TO UNITED STATES OF AMERICA 6/30/86
14	NA		944	UNITED STATES OF AMERICA	NA	TRADED FROM UNITED STATES OF AMERICA
15	AIP 3-04-0045-08	6/30/86	4.4	HUDGIN AIR SERVICE, INC.	\$750,000.00	
16	AIP 3-04-0045-18 (NOISE)	3/5/92	4.3	DYNCORP	\$875,000.00	SOLD TO U.S. ARMY CORPS OF ENGINEERS 12/12/95
17	1990 REVENUE BOND	3/31/92	480	FRANK ARIES ENTERPRISES, INC.	\$2,400,000.00	
18	1990 REVENUE BOND	4/27/92	239	STEWART TITLE & TRUST OF TUCSON	\$1,186,194.47	
19	AIP 3-04-0045-18 (NOISE, CONVERTED TO DEVELOPMENT)	4/27/92	80	STEWART TITLE & TRUST OF TUCSON	\$400,707.53	CONVERTED TO AIP ELIGIBLE LAND, FUTURE AIRFIELD DEVELOPMENT
20	AIP 3-04-0045-15 (NOISE, CONVERTED TO DEVELOPMENT)	7/1/92	480	ARIZONA STATE LAND DEPT.	\$3,312,000.00	CONVERTED TO AIP ELIGIBLE LAND, FUTURE GA / LANDSIDE
21	AIP 3-04-0045-15 (NOISE, CONVERTED TO DEVELOPMENT)	2/24/95	255	ARIZONA STATE LAND DEPT.	\$2,036,750.00	CONVERTED TO AIP ELIGIBLE LAND, FUTURE FACILITIES, GARGO, LANDSIDE
22	AIP 3-04-0045-18 (NOISE)	2/24/95	160	ARIZONA STATE LAND DEPT.	\$1,337,650.00	
23	AIP 3-04-0045-18 (NOISE)	2/24/95	160	ARIZONA STATE LAND DEPT.	\$1,337,650.00	FUTURE AVIATION RELATED / INDUSTRIAL
24	AIP 3-04-0045-18 (NOISE)	1/13/97	635	HEATER INVESTMENTS, INC.	\$698,258.00	
25	AIP 3-04-0045-49	1/5/99	98.2	AURIGA PROPERTIES INC.	\$3,077,891.01	
26	FAA Land Fund	5/21/99	3.75	TUCSON SURGICAL SPECIALIST	\$50,077.72	
27	FAA Land Fund	5/21/99	0.02	LAZY CREEK PARTNERSHIP	\$4,797.10	
28	FAA Land Fund	10/22/99	0.79	CHANA FARBIARZ	\$65,792.76	
29	FAA Land Fund	11/17/99	0.19	YEE TRUST	\$11,984.08	
30	AIRPORT REMEDIATION PROJECT	3/10/00	1.95	LUKSO / GILMORE	\$70,000.00	
31	PFC	5/19/00	181	STEWART TITLE & TRUST NO. 3566	\$700,000.00	
32	PFC	7/12/00	192.87	AURIGA PROPERTIES, INC.	\$742,500.00	
33	PFC	4/15/02	195.62	ARIZONA LAND ASSOCIATES, LP.	\$860,728.00	
34	PFC	6/13/02	918.10	ARIZONA STATE LAND DEPT.	\$3,350,000.00	
35	PFC	6/13/02	196.40	ARKANSAS VENTURES, L.L.C.	\$742,000.00	
36	AIP 3-04-0045-44	4/2/03	10.48	OALP, LLC	\$3,500,000.00	AKA TURBO AIRE
37	FOR FUTURE DEVELOPMENT		1.28	140-42-0330		
38	FOR FUTURE DEVELOPMENT		.98	140-42-0320		
39	FOR FUTURE DEVELOPMENT		2.29	140-42-0310		
40	FOR FUTURE DEVELOPMENT		1.04	140-42-0300		

**PROPERTY ACQUISITION**  
TABLE 2 of 2

PARCEL	FUNDING SOURCE	DATE OF ACQUISITION	ACRES	NAME OF SELLER	COST OF LAND AND IMPROVEMENTS	REMARKS
41	FOR FUTURE DEVELOPMENT		3.11	140-42-070A		
42	FOR FUTURE DEVELOPMENT		1.27	140-42-070B		
43	FOR FUTURE DEVELOPMENT		1.60	140-42-0710		
44	FOR FUTURE DEVELOPMENT		4.80	140-42-072A		
46	ADOT E8837	5/01/06	4.32	OBEDIA HOLDINGS, LLC	\$666,765.88	
47	TAA (FUTURE REIMBURSEMENT)		3.87	BARBOA FAMILY TRUST		
48	TAA (FUTURE REIMBURSEMENT)		4.65	BARBOA FAMILY TRUST		
49	FOR FUTURE DEVELOPMENT		51.13	140-41-133A		
50	FOR FUTURE DEVELOPMENT		4.91	140-44-0040		
51	FOR FUTURE DEVELOPMENT		615.19	140-49-0010		
52	FOR FUTURE DEVELOPMENT		14.17	140-47-0010		
53	FOR FUTURE DEVELOPMENT		13.07	140-47-0020		
54	FOR FUTURE DEVELOPMENT		35.79	140-47-0030		
55	FOR FUTURE DEVELOPMENT		60.15	140-48-0020		
56	AIP 3-04-0045-4	2/24/05	308.40	140-47-004C	\$3,030,000.00	
57	FOR FUTURE DEVELOPMENT		19.17	140-46-0010		
58	FOR FUTURE DEVELOPMENT		321.49	140-53-0018		
59	FOR FUTURE DEVELOPMENT		158.35	140-47-007E		

APPROVED: *Bonnie Allen* 4/21/14  
TAA Chief Executive Officer Date

MASTER PLAN UPDATE JCD 05/16/14

PARTIAL ALP UPDATE RJL 08/02/10

ALP UPDATE TJS 04/23/10

TAA Revision FLL 07/26/09

ALP UPDATE FLL 06/15/09

REVALUATION RPE MC 06/05/05

LAND ACQUISITION RCP/MC MFJ 02/17/04

MASTER PLAN UPDATE DEJ CLV 08/14/07

REVISION DESCRIPTION BY APPD DATE

**TUCSON AIRPORT AUTHORITY**  
TUCSON INTERNATIONAL AIRPORT  
TUCSON, ARIZONA

**Airport Property Map**

ALP PREPARED BY  
HNTB Corporation

TUCSON AIRPORT AUTHORITY  
TUCSON INTERNATIONAL AIRPORT  
TUCSON, ARIZONA

**Airport Property Map**

DRAWN BY: JCD/RJB CHECKED BY: JAW DATE: MAY 2014

REVISION NO. SHEET 10 OF 10