Appendix C
AIRPORT LAYOUT PLAN DRAWINGS

Per Federal Aviation Administration (FAA) and Arizona Department of Transportation, Division of Aeronautics (ADOT) requirements, an official Airport Layout Plan (ALP) has been developed for San Manuel Airport. The ALP graphically presents the existing and ultimate airport layout. The ALP is used, in part by the FAA and state, to determine funding eligibility for future development projects.

The ALP was prepared on a computer-aided drafting system for future ease of use. The computerized plan set provides detailed information of existing and future facility layout on multiple layers that permits the user to focus in on any section of the airport at a desirable scale. The plan can be used as base information for design, and can be easily updated in the future to reflect new development and more detail concerning existing conditions as made available through design surveys.

A number of related drawings, which depict the ultimate airspace and landside development, are included with the ALP. The following provides a brief discussion of the additional drawings included with the ALP:

Terminal Area Drawing - The terminal area drawing provides greater detail concerning landside improvements north of Runway 11-29 and at a larger scale than on the ALP.

Airport Airspace Drawing - The Airport Airspace Drawing is a graphic depiction of Federal Aviation Regulations (F.A.R.) Part 77, *Objects Affecting Navigable Airspace*,

regulatory criterion. The Airport Airspace Drawing is intended to aid local authorities in determining if proposed development could present a hazard to the airport and obstruct the approach path to a runway end. This plan should be coordinated with local land use planners.

Runway 11-29 Approach Zone Profiles and Runway Profiles Drawing - This drawing provides both plan and profile views of the F.A.R. Part 77 approach surface for each runway end. A composite profile of the extended ground line is depicted. Obstructions and clearances over roads and railroads are shown as appropriate.

Inner Portion of the Runway 11-29 Approach Surface Drawing - The Inner Portion of the Approach Surface Drawing is a scaled drawings of the runway protection zone (RPZ), runway safety area (RSA), obstacle free zone (OFZ), and object free area (OFA) for each runway end. A plan and profile view of each RPZ is provided to facilitate identification of obstructions that lie within these safety areas. Detailed obstruction and facility data is provided to identify planned improvements and the disposition of obstructions (as appropriate).

On-Airport Land Use Drawing - The On-Airport Land Use Drawing is a graphic depiction of the land use recommendations. When development is proposed, it should be directed to the appropriate land use area depicted on this plan.

Airport Property Map - The Property Map provides information on the acquisition and identification of all land tracts under the control of the airport. Both existing and future property holdings are identified on the Property Map.

AIRPORT LAYOUT PLANS

FOR

San Manuel AIRPORT

SAN MANUEL, ARIZONA

Prepared for

PINAL COUNTY,
ARIZONA

INDEX OF DRAWINGS

Coffman Associates Airport Consultants

MODIFICATIONS FROM FAA AIRPORT DESIGN STANDARDS

DEVIATION DESCRIPTION	EFFECTED DESIGN STANDARD	STANDARD	PROPOSED DISPOSITION
Buildings in Ultimate Object Free Area	Object Free Area	250'	Buildings to be Removed

AIRPORT DATA

San Manuel Airport (E77)

CITY: San Manuel, Arizona — COUNTY: Pinal
RANGE: 17E TOWNSHIP: 9S — OWNER: Pinal County, Arizona

		EXISTING	ULTIMATE
AIRPORT CLASSIFICATION		General Aviation	General Aviation
DESIGN AIRCRAFT		Beech, King Air	Cessna Citation
AIRPORT REFERENCE CODE		B-I	B-II
AIRCRAFT DESIGN GROUP		I(m)	II
AIRPORT ELEVATION		3,274.0 MSL	3,274.0 MSL
MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH		95.8° F	95.8° F
AIRPORT REFERENCE POINT (ARP)	Latitude	32° 38' 11.253"N	32° 38' 09.565"N
COORDINATES (NAD 83)	Longitude	110° 38' 50.351" W	110° 38' 47.566" W
AIRPORT ELECTRONIC AIDS		None	GPS
VISUAL AIDS		WINDCONE SEGMENTED CIRCLE	WINDCONE SEGMENTED CIRCLE REILS PAPI-2
GPS Approach		None	Yes

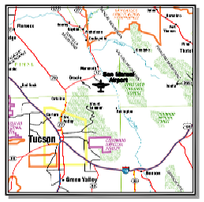
(m) Small Aircraft Exclusively

RUNWAY END COORDINATES (NAD 83)

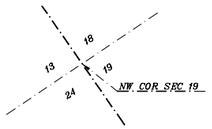
RUNWAY		EXISTING	ULTIMATE
Runway 11	Latitude	32°38'23.374" N	32°38'26.131"N
	Longitude	110°39'10.722" W	110°39'15.576" W
Runway 29	Latitude	32°38'00.210" N	SAME
	Longitude	110°38'29.955" W	SAME

Source: Gilbertson Associates, July 23, 2001.

LOCATION MAP

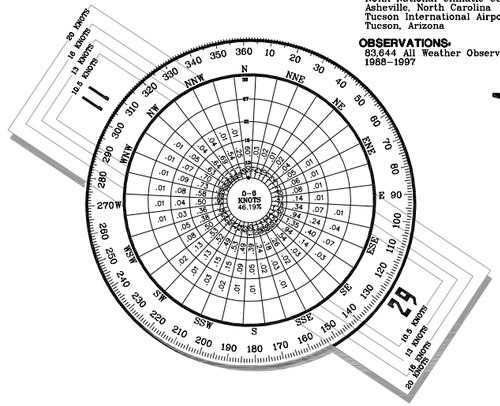


VICINITY MAP



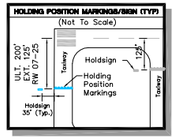
ALL WEATHER WIND COVERAGE

Runways	10.5 Knots 12 MPH	13 Knots 15MPH	16 Knots 18MPH	20 Knots 23MPH
Runway 11-29	94.96%	97.12%	99.01%	99.75%



SOURCE:
NOAA National Climatic Center
Asheville, North Carolina
Tucson International Airport
Tucson, Arizona

OBSERVATIONS:
83,644 All Weather Observations
1988-1997

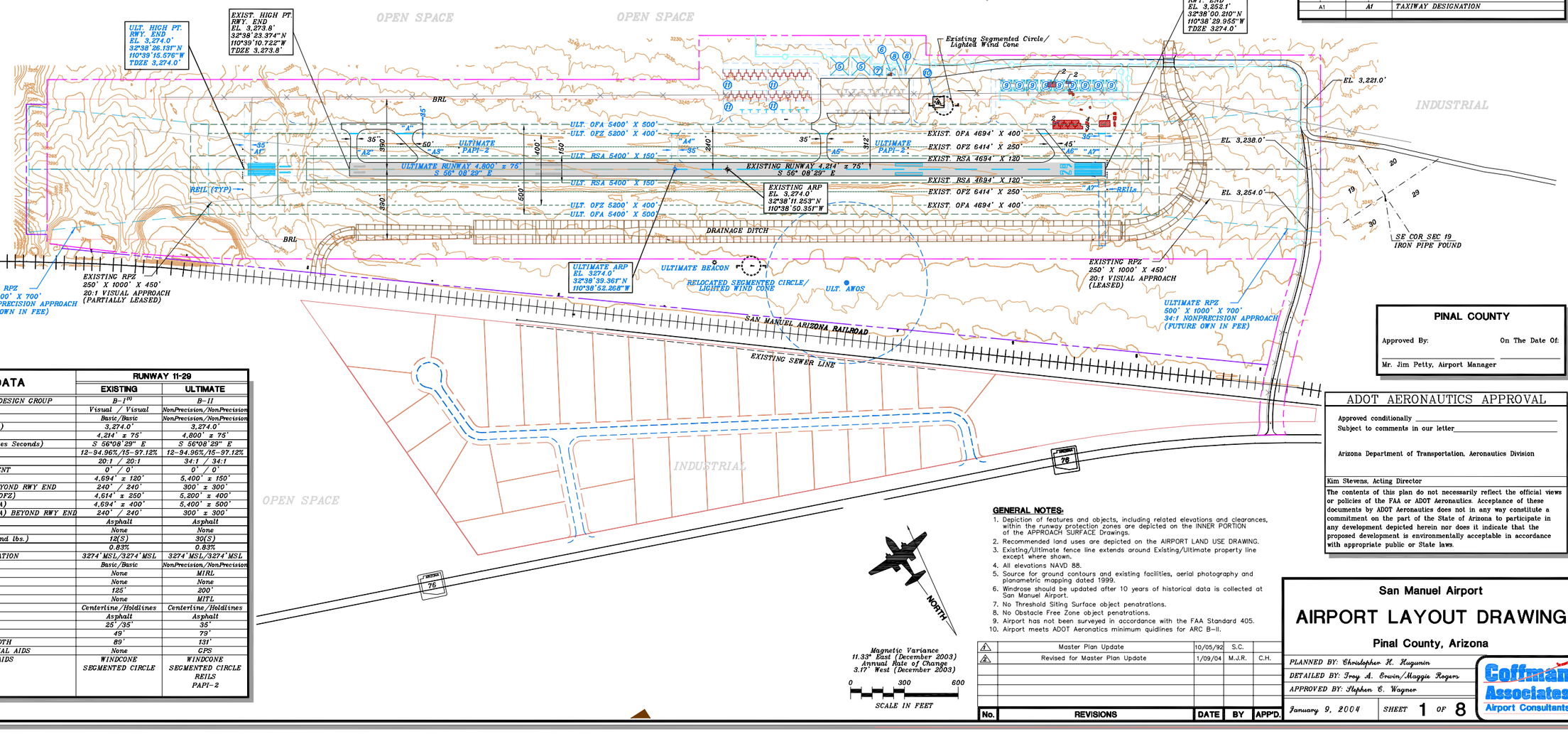


BUILDINGS/FACILITIES

EXISTING	ULTIMATE	DESCRIPTION
1	--	RESIDENCE (TO BE REMOVED)
2	--	HANGARS (TO BE REMOVED)
3	--	FUEL STORAGE (TO BE REMOVED)
4	--	RESTROOM (TO BE REMOVED)
--	5	COMMERICAL/FBO HANGARS
--	6	TERMINAL BUILDING
--	7	WASH RACK
--	8	FUEL STORAGE/ SELF SERVE FUEL ISLAND
--	9	EXECUTIVE/INDIVIDUAL HANGARS
--	10	HELIPAD
--	11	T-HANGARS (10 UNITS EACH)
--	--	--
--	--	--
--	--	--
--		
--		

LEGEND

EXISTING	ULTIMATE	DESCRIPTION
		ABANDONED/REMOVED PAVEMENT
		AIRPORT PROPERTY LINE
		AIRPORT REFERENCE POINT (ARP)
		AIRPORT ROTATING BEACON
		AVIGATION EASEMENT (if applicable)
		BUILDING REMOVAL
		BUILDING CONSTRUCTION
	BRL	BUILDING RESTRICTION LINE (BRL)
		DRAINAGE
		FACILITY CONSTRUCTION
		FENCING
PAPI-2	PAPI-2	NAVIGATIONAL AID INSTALLATION
		RUNWAY END IDENTIFICATION LIGHTS (REIL)
		RUNWAY THRESHOLD LIGHTS
		SEGMENTED CIRCLE/WIND INDICATOR
1080		TOPOGRAPHY
		WIND INDICATOR (Lighted)
55	55	SECTION CORNER
A1	A1	TAXIWAY DESIGNATION



RUNWAY DATA

	RUNWAY 11-29 EXISTING	RUNWAY 11-29 ULTIMATE
AIRCRAFT APPROACH CATEGORY-DESIGN GROUP	B-I(m)	B-II
APPROACH VISIBILITY MINIMUMS	Visual / Visual	NonPrecision/NonPrecision
F.A.R. PART 77 CATEGORY	Basic/Basic	NonPrecision/NonPrecision
MAXIMUM ELEVATION (Above MSL)	3,274.0'	3,274.0'
RUNWAY DIMENSIONS	4,214' x 75'	4,800' x 75'
RUNWAY AZIMUTH (Degrees Minutes Seconds)	S 56°08'29" E	S 56°08'29" E
WIND COVERAGE (MPH)	12-94.96%/15-97.12%	12-94.96%/15-97.12%
RUNWAY APPROACH SURFACES	20:1 / 20:1	34:1 / 34:1
RUNWAY THRESHOLD DISPLACEMENT	0' / 0'	0' / 0'
RUNWAY SAFETY AREA (RSA)	4,694' x 120'	5,400' x 150'
RUNWAY SAFETY AREA (RSA) BEYOND RWY END	240' / 240'	300' x 300'
RUNWAY OBSTACLE FREE ZONE (OFZ)	4,614' x 250'	5,200' x 400'
RUNWAY OBJECT FREE AREA (OFA)	4,694' x 400'	5,400' x 500'
RUNWAY OBJECT FREE AREA (OFA) BEYOND RWY END	240' / 240'	300' x 300'
PAVEMENT SURFACE MATERIAL	Asphalt	Asphalt
PAVEMENT SURFACE TREATMENT	None	None
PAVEMENT STRENGTH (in thousand lbs.)	12(S)	30(S)
RUNWAY EFFECTIVE GRADIENT	0.83%	0.83%
RUNWAY TOUCHDOWN ZONE ELEVATION	3274' MSL/3274' MSL	3274' MSL/3274' MSL
RUNWAY MARKING	Basic/Basic	NonPrecision/NonPrecision
RUNWAY LIGHTING	None	MIRL
RUNWAY APPROACH LIGHTING	None	None
RUNWAY HOLD POSITIONS	125'	200'
TAXIWAY LIGHTING	None	MITL
TAXIWAY MARKING	Centerline/Holdlines	Centerline/Holdlines
TAXIWAY SURFACE MATERIAL	Asphalt	Asphalt
TAXIWAY WIDTH	25'/35'	35'
TAXIWAY SAFETY AREA WIDTH	49'	79'
TAXIWAY OBJECT FREE AREA WIDTH	89'	131'
RUNWAY ELECTRONIC NAVIGATIONAL AIDS	None	GPS
RUNWAY VISUAL NAVIGATIONAL AIDS	WINDCONE SEGMENTED CIRCLE	WINDCONE SEGMENTED CIRCLE REILS PAPI-2

(m) Small Aircraft Exclusively

GENERAL NOTES:

1. Depiction of features and objects, including related elevations and clearances, within the runway protection zones are depicted on the INNER PORTION of the APPROACH SURFACE Drawings.
2. Recommended land uses are depicted on the AIRPORT LAND USE DRAWING.
3. Existing/Ultimate fence line extends around Existing/Ultimate property line except where shown.
4. All elevations NAVD 88.
5. Source for ground contours and existing facilities, aerial photography and planametric mapping dated 1999.
6. Windrose should be updated after 10 years of historical data is collected at San Manuel Airport.
7. No Threshold Siting Surface object penatrations.
8. No Obstacle Free Zone object penatrations.
9. Airport has not been surveyed in accordance with the FAA Standard 405.
10. Airport meets ADOT Aeronatics minimum quidlines for ARC B-II.

Magnetic Variance
11.33° East (December 2003)
Annual Rate of Change
3.17' West (December 2003)

0 300 600
SCALE IN FEET

No.	REVISIONS	DATE	BY	APP'D.
1	Master Plan Update	10/05/92	S.C.	
2	Revised for Master Plan Update	1/09/04	M.J.R.	C.H.

PINAL COUNTY

Approved By: On The Date Of:

Mr. Jim Petty, Airport Manager

ADOT AERONAUTICS APPROVAL

Approved conditionally _____
Subject to comments in our letter _____

Arizona Department of Transportation, Aeronautics Division

Kim Stevens, Acting Director

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San Manuel Airport

AIRPORT LAYOUT DRAWING

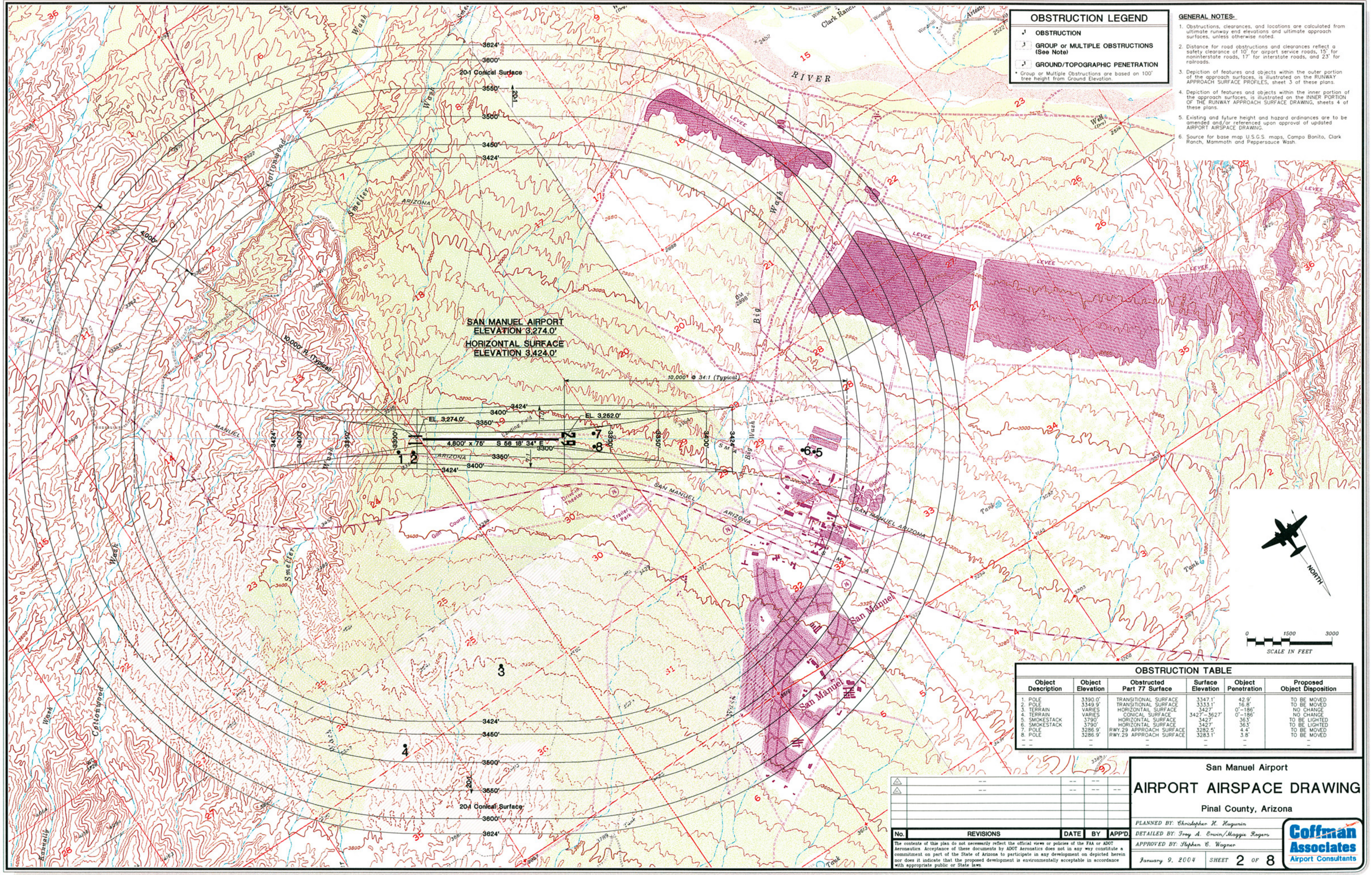
Pinal County, Arizona

PLANNED BY: Christopher H. Hugunin
DETAILED BY: Troy A. Erwin/Maggie Rogers
APPROVED BY: Stephen C. Wagner

January 9, 2004 — SHEET 1 OF 8

Coffman Associates
Airport Consultants

Coffman Associates D:\CAD\San Manuel\2003\ALP Set\E77ALP.DWG 01/08/2004



OBSTRUCTION LEGEND

- OBSTRUCTION
- GROUP or MULTIPLE OBSTRUCTIONS (See Note)
- GROUND/TOPOGRAPHIC PENETRATION

* Group or Multiple Obstructions are based on 100' tree height from Ground Elevation.

GENERAL NOTES:

1. Obstructions, clearances, and locations are calculated from ultimate runway end elevations and ultimate approach surfaces, unless otherwise noted.
2. Distance for road obstructions and clearances reflect a safety clearance of 10' for airport service roads, 15' for noninterstate roads, 17' for interstate roads, and 23' for railroads.
3. Depiction of features and objects within the outer portion of the approach surfaces, is illustrated on the RUNWAY APPROACH SURFACE PROFILES, sheet 3 of these plans.
4. Depiction of features and objects within the inner portion of the approach surfaces, is illustrated on the INNER PORTION OF THE RUNWAY APPROACH SURFACE DRAWING, sheets 4 of these plans.
5. Existing and future height and hazard ordinances are to be amended and/or referenced upon approval of updated AIRPORT AIRSPACE DRAWING.
6. Source for base map U.S.G.S. maps, Campo Bonito, Clark Ranch, Mammoth and Peppersauce Wash.

OBSTRUCTION TABLE

Object Description	Object Elevation	Obstructed Part 77 Surface	Surface Elevation	Object Penetration	Proposed Object Disposition
1. POLE	3390.0'	TRANSITIONAL SURFACE	3347.1'	42.9'	TO BE MOVED
2. POLE	3349.9'	TRANSITIONAL SURFACE	3333.1'	16.8'	TO BE MOVED
3. TERRAIN	VARIES	HORIZONTAIL SURFACE	3427'	0'–186'	NO CHANGE
4. TERRAIN	VARIES	CONICAL SURFACE	3427'–3627'	0'–186'	NO CHANGE
5. SMOKESTACK	3790'	HORIZONTAL SURFACE	3427'	363'	TO BE LIGHTED
6. SMOKESTACK	3790'	HORIZONTAL SURFACE	3427'	363'	TO BE LIGHTED
7. POLE	3286.9'	RWY.29 APPROACH SURFACE	3282.5'	4.4'	TO BE MOVED
8. POLE	3286.9'	RWY.29 APPROACH SURFACE	3283.1'	3.8'	TO BE MOVED
– –	–	–	–	–	–
– –	–	–	–	–	–

No.	REVISIONS	DATE	BY	APP'D.
△	--	--	--	
△	--	--	--	--

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San Manuel Airport

AIRPORT AIRSPACE DRAWING

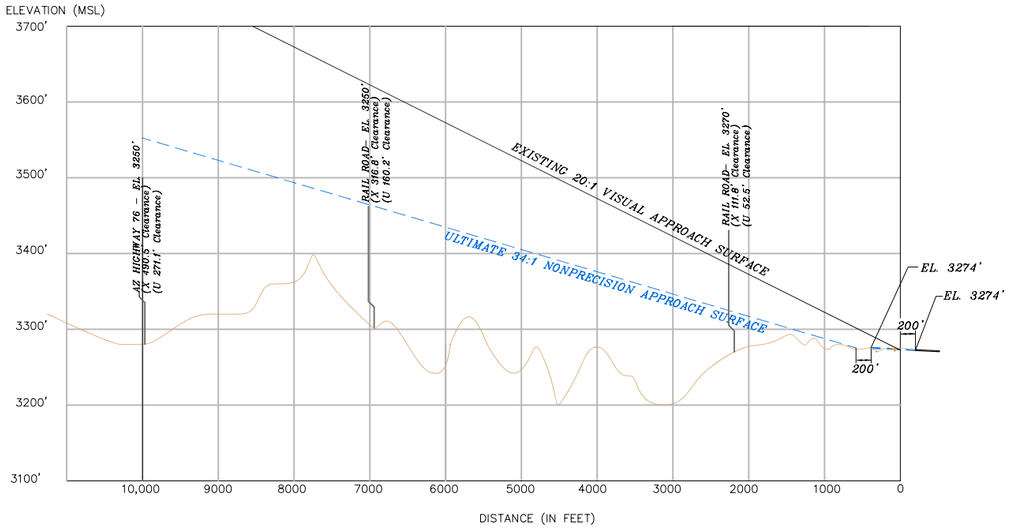
Pinal County, Arizona

PLANNED BY: Christopher H. Huguenin
DETAILED BY: Troy A. Erwin/Maggie Rogers
APPROVED BY: Stephen C. Wagner

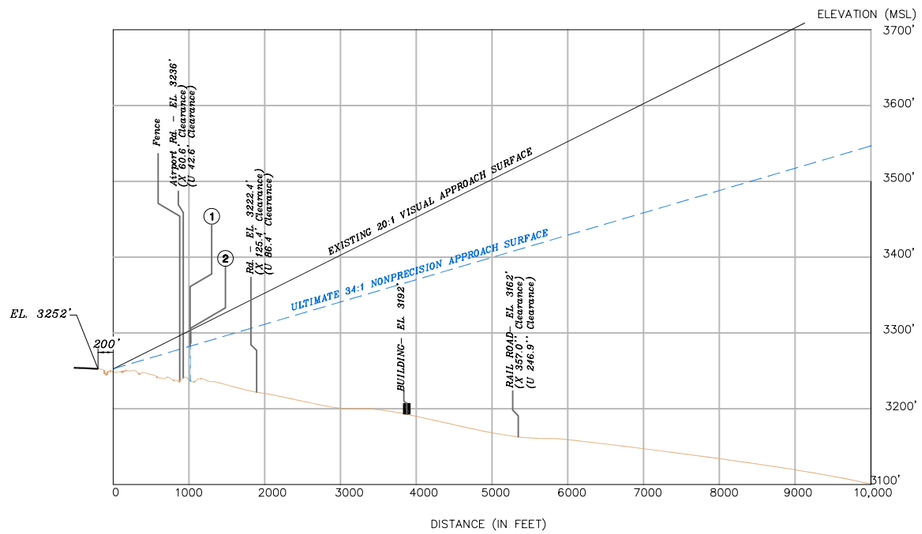
January 9, 2004 SHEET 2 OF 8

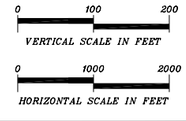
Coffman Associates Airport Consultants

RUNWAY 11

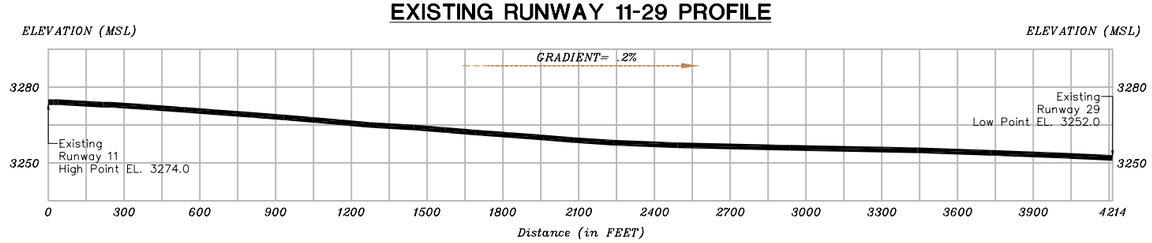


RUNWAY 29

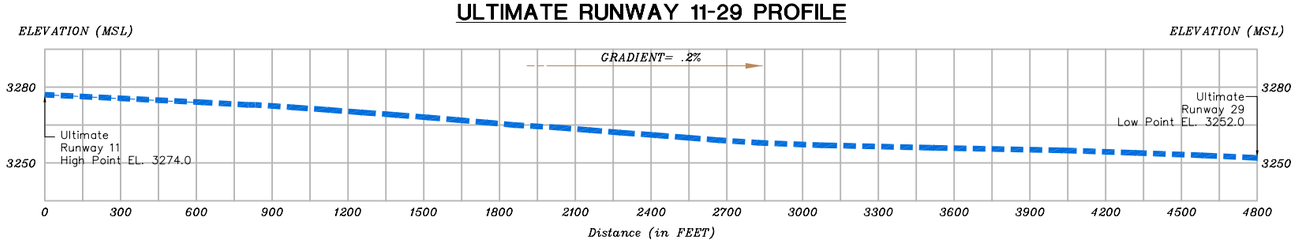


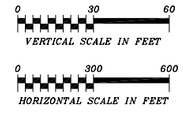


EXISTING RUNWAY 11-29 PROFILE



ULTIMATE RUNWAY 11-29 PROFILE





GENERAL NOTES:

1. Obstructions, clearances, and locations are calculated from ultimate runway end elevations and ultimate approach surfaces, unless otherwise noted.
2. Distance for road obstructions and clearances reflect a safety clearance of 10' for airport service roads, 15' for noninterstate roads, 17' for interstate roads, and 23' for railroads.
3. Depiction of features and objects within the inner portion of the approach surfaces, is illustrated on the INNER PORTION OF RUNWAY APPROACH SURFACE DRAWING, sheet 4 of these plans.

RUNWAY 11 OBSTRUCTION TABLE

Object Description	Object Elevation	Obstructed Part 77 Surface	Surface Elevation	Object Penetration	Proposed Object Disposition
1. NONE	--	--	--	--	--

RUNWAY 29 OBSTRUCTION TABLE

Object Description	Object Elevation	Obstructed Part 77 Surface	Surface Elevation	Object Penetration	Proposed Object Disposition
1. POLE	3,286.9'	RWY 29 APPROACH SURFACE	3,282.5'	4.4'	TO BE REMOVED
2. POWER POLE	3,286.9'	RWY 29 APPROACH SURFACE	3,283.1'	3.8'	TO BE REMOVED

No.	REVISIONS	DATE	BY	APP'D
2	--	--	--	
1	--	--	--	--

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San Manuel Airport

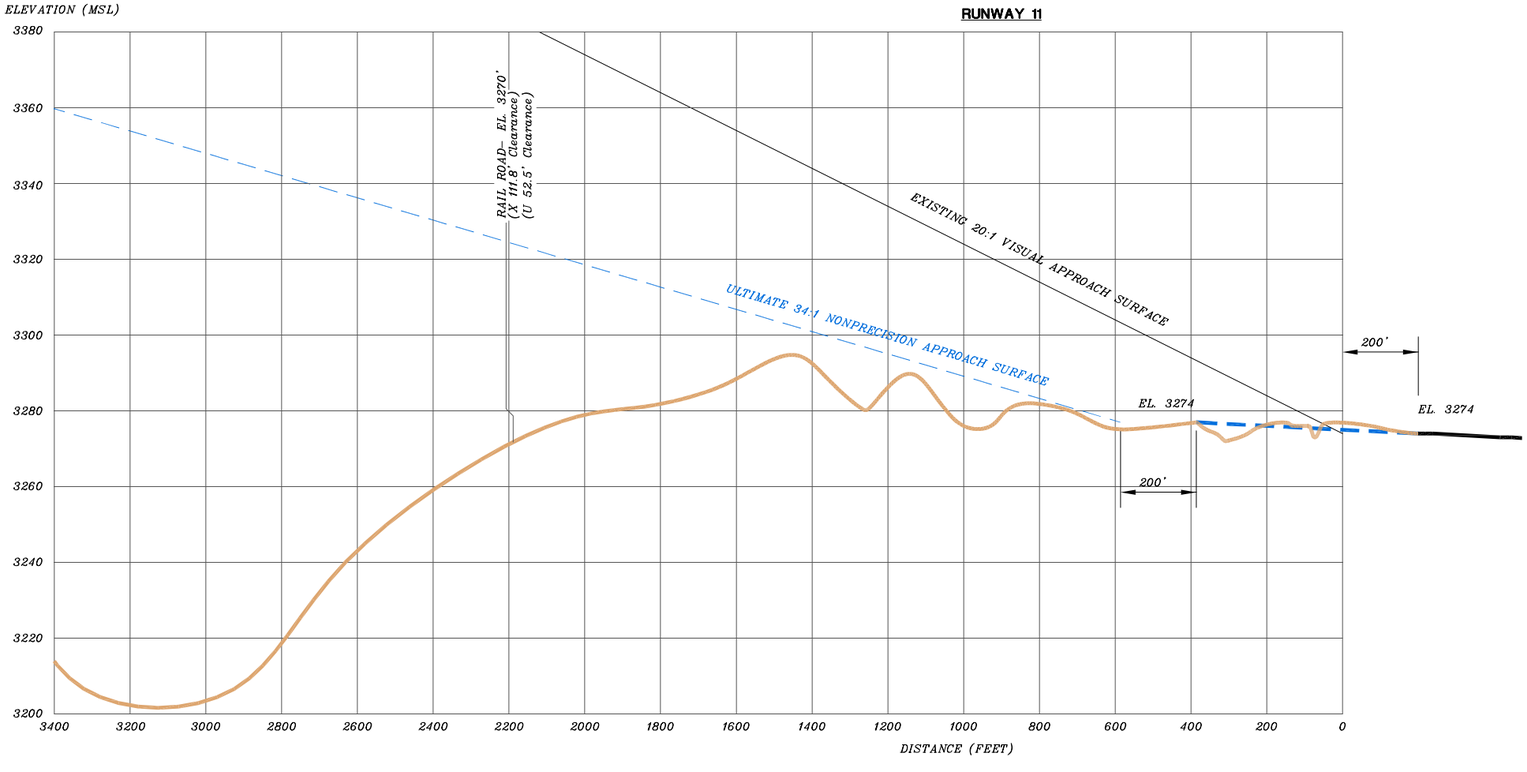
APPROACH ZONE PROFILES AND RUNWAY PROFILES DRAWING

Pinal County, Arizona

PLANNED BY: Christopher H. Huguenin
DETAILED BY: Troy A. Erwin/Maggie Rogers
APPROVED BY: Stephen C. Wagner

January 9, 2004 | SHEET 3 OF 8

Coffman Associates
Airport Consultants



GENERAL NOTES:

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2. Distance for road obstructions and clearances reflect a safety clearance of 10' for airport service roads, 15' for noninterstate roads, 17' for interstate roads, and 23' for railroads.

RUNWAY 11 OBSTRUCTION TABLE

Object Description	Object Elevation	Obstructed Part 77 Surface	Surface Elevation	Object Penetration	Proposed Object Disposition
1. NONE	--	--	--	--	--
					--

0 20 40
VERTICAL SCALE IN FEET

0 200 400
HORIZONTAL SCALE IN FEET

No.	REVISIONS	DATE	BY	APP'D
1	--	--	--	--
2	--	--	--	--

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San Manuel Airport

INNER PORTION OF EXISTING RUNWAY 11 APPROACH SURFACE DRAWING

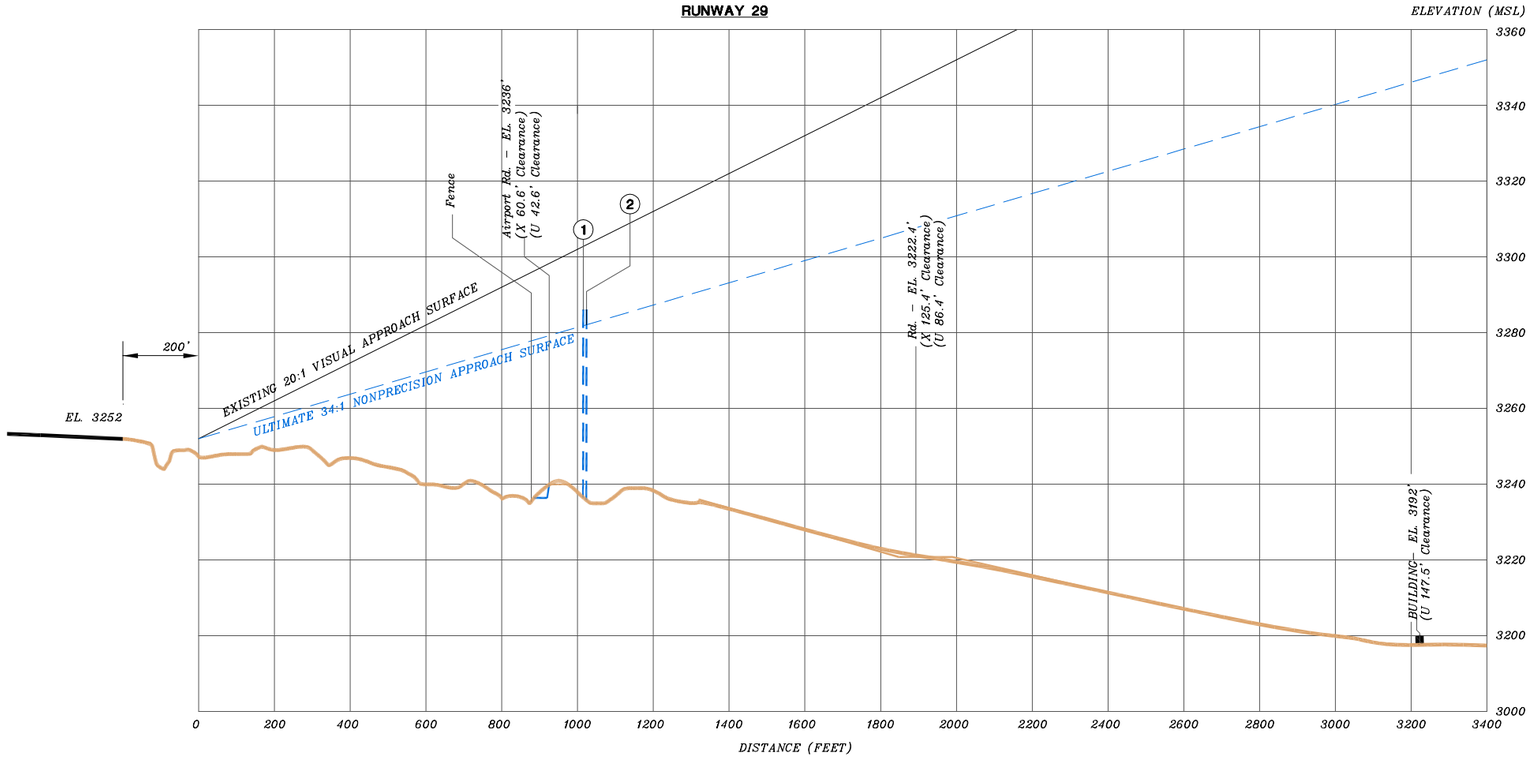
Pinal County, Arizona

PLANNED BY: Christopher H. Huguenin
DETAILED BY: Troy A. Erwin/Maggie Rogers
APPROVED BY: Stephen C. Wagner

January 9, 2004 | SHEET 4 OF 8

Coffman Associates
Airport Consultants

RUNWAY 29



RUNWAY 29 OBSTRUCTION TABLE

Object Description	Object Elevation	Obstructed Part 77 Surface	Surface Elevation	Object Penetration	Proposed Object Disposition
1. POLE	3,286.9'	RWY 29 APPROACH SURFACE	3,282.5'	4.4'	TO BE REMOVED
2. POWER POLE	3,286.9'	RWY 29 APPROACH SURFACE	3,283.1'	3.8'	TO BE REMOVED

GENERAL NOTES:

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2. Distance for road obstructions and clearances reflect a safety clearance of 10' for airport service roads, 15' for noninterstate roads, 17' for interstate roads, and 23' for railroads.

0 20 40
VERTICAL SCALE IN FEET

0 200 400
HORIZONTAL SCALE IN FEET

No.	REVISIONS	DATE	BY	APP'D
△	--	--	--	
△	--	--	--	--

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San Manuel Airport

INNER PORTION OF EXISTING RUNWAY 29 APPROACH SURFACE DRAWING

Pinal County, Arizona

PLANNED BY: Christopher H. Huguenin
DETAILED BY: Troy A. Erwin/Maggie Rogers
APPROVED BY: Stephen C. Wagner

January 9, 2004 | SHEET 5 OF 8

Coffman Associates
Airport Consultants

BUILDINGS/FACILITIES

EXISTING	ULTIMATE	DESCRIPTION
1	--	RESIDENCE (TO BE REMOVED)
2	--	HANGARS (TO BE REMOVED)
3	--	FUEL STORAGE (TO BE REMOVED)
4	--	RESTROOM (TO BE REMOVED)
--	5	COMMERICAL/FBO HANGARS
--	6	TERMINAL BUILDING
--	7	WASH RACK
--	8	FUEL STORAGE/ SELF SERVE FUEL ISLAND
--	9	EXECUTIVE/INDIVIDUAL HANGARS
--	10	HELIPAD
--	11	T-HANGARS (10 UNITS EACH)
--	--	--
--	--	--
--	--	--
--		
--		

Existing Segmented Circle
Lighted Wind Cone

EXIST. OFA 4694' X 400'

EXIST. OFZ 6414' X 250'

EXIST. RSA 4694' X 120'

35'

312'

ULTIMATE
PAPI-2

"A5"

"A6"

"A7"

45'

EXISTING RUNWAY 4,214' x 75'
S 56° 08'29" E

EXIST. RSA 4694' X 120'

EXIST. OFZ 6414' X 250'

EXIST. OFA 4694' X 400'

REILs

EXISTING ARP
EL. 3,274.0'
32°38'11.253"N
110°38'50.351"W

DRAINAGE DITCH

ULTIMATE BEACON

RELOCATED SEGMENTED CIRCLE/
LIGHTED WIND CONE

ULT. AWOS

SAN MANUEL ARIZONA RAILROAD

3240 3245 3250 3255 3260 3265 3270 3275

LEGEND

EXISTING	ULTIMATE	DESCRIPTION
		ABANDONED/REMOVED PAVEMENT
		AIRPORT PROPERTY LINE
		AIRPORT REFERENCE POINT (ARP)
		AIRPORT ROTATING BEACON
		AVIGATION EASEMENT (if applicable)
		BUILDING REMOVAL
		BUILDING CONSTRUCTION
	BRL	BUILDING RESTRICTION LINE (BRL)
		DRAINAGE
		FACILITY CONSTRUCTION
		FENCING
PAPI-2	PAPI-2	NAVIGATIONAL AID INSTALLATION
		RUNWAY END IDENTIFICATION LIGHTS (REIL)
		RUNWAY THRESHOLD LIGHTS
		SEGMENTED CIRCLE/WIND INDICATOR
1080		TOPOGRAPHY
		WIND INDICATOR (lighted)
		SECTION CORNER
A1	A1	TAXIWAY DESIGNATION

NORTH

0 100 200
SCALE IN FEET

No.	REVISIONS	DATE	BY	APP'D
1	--	--	--	--
2	--	--	--	--

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San Manuel Airport

TERMINAL AREA DRAWING

Pinal County, Arizona

PLANNED BY: Christopher H. Higumin
DETAILED BY: Troy A. Erwin/Maggie Rogers
APPROVED BY: Stephen C. Wagner

January 9, 2004

Coffman Associates
Airport Consultants

ON-AIRPORT LAND USE LEGEND

AIRFIELD OPERATIONS/ OPEN SPACE (191 ACRES)

GENERAL AVIATION AREA (32.8 ACRES)

NR COR SEC 19

OPEN SPACE

BRL

"A"

"A1"

"A2"

"A3"

"A4"

35'

"A5"

"A6"

"A7"

ULTIMATE RUNWAY 4,800' x 75'
S 56° 08' 29" E

EXISTING RUNWAY 4,214' x 75'
S 56° 08' 29" E

DRAINAGE DITCH

SAN MANUEL ARIZONA RAILROAD

EXISTING SEWER LINE

SE COR SEC 19
IRON PIPE FOUND

76

NORTH

0 300 600
SCALE IN FEET

No.	REVISIONS	DATE	BY	APP'D
1	-	-	-	
2	-	-	-	

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San Manuel Airport

ON-AIRPORT LAND USE DRAWING

Pinal County, Arizona

PLANNED BY: Christopher K. Kuyunjian

DETAILED BY: Troy A. Erwin/Maggie Rogers

APPROVED BY: Stephen C. Wagner

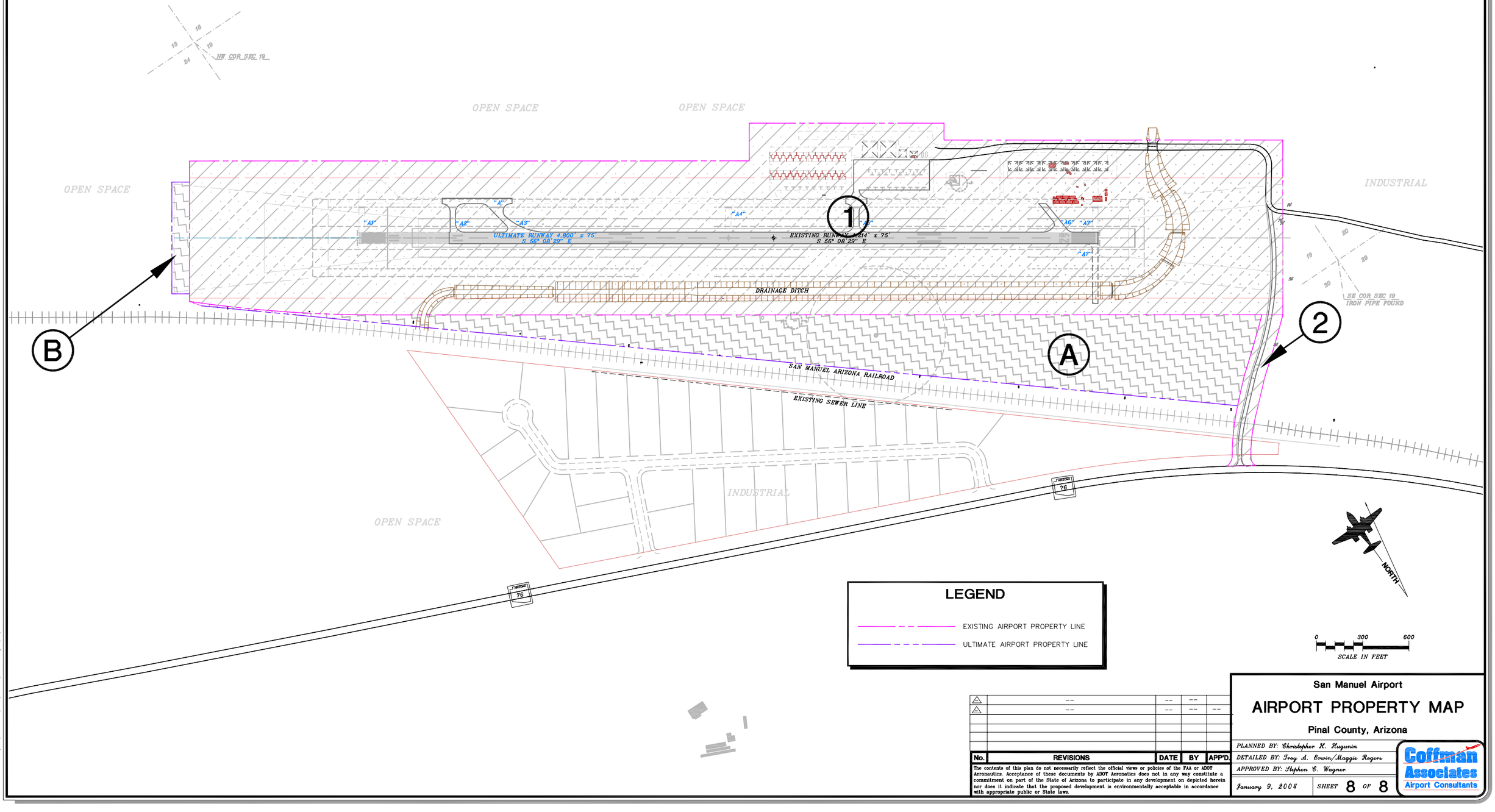
January 9, 2004

SHEET 7 OF 8

Coffman Associates
Airport Consultants

PROPERTY INFORMATION

PARCEL NO.	DESCRIPTION	ACERAGE
1	LEASE AGREEMENT BOUNDRY DOC #1995-033569	156±
2	LEASE AGREEMENT	3.5±
A	FUTURE ACQUISITION	41.5±
B	FUTURE ACQUISITION	2±



LEGEND

EXISTING AIRPORT PROPERTY LINE

ULTIMATE AIRPORT PROPERTY LINE

No.	REVISIONS	DATE	BY	APP'D.
△	--	--	--	
△	--	--	--	--

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San Manuel Airport

AIRPORT PROPERTY MAP

Pinal County, Arizona

PLANNED BY: Christopher H. Higunin

DETAILED BY: Troy A. Erwin/Maggie Rogers

APPROVED BY: Stephen C. Wagner

January 9, 2004

SHEET 8 OF 8

Coffman Associates
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Coffman Associates D:\CAD\San Manuel\20031\ALP Set\E77PROP.dwg 01/09/2004

Coffman Associates
Airport Consultants

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