

RUNWAY DATA		EXISTING		ULTIMATE	
		3	21	3	21
RUNWAY DESIGN CODE (R05)		9-A-0000	8-A-0000	0-A-0000	0-A-0000
APPROACH REFERENCE CODE (APRC)		8-B-0000	8-B-0000	8-B-0000	8-B-0000
DEPARTURE REFERENCE CODE (DRPC)		8-B-0000	8-B-0000	8-B-0000	8-B-0000
APPROACH USABILITY MINIMUMS		134.98	134.98	134.98	134.98
DEPARTURE USABILITY MINIMUMS		62.37	62.37	62.37	62.37
RUNWAY BEARING (TRUE)		NON-PRESERVE	NON-PRESERVE	SAME	SAME
APPROACH TYPE		Yes	Yes	Yes	Yes
PART II APPROACH CATEGORY		NA	NA	NA	NA
TYPE OF AERONAUTICAL SURVEY		NA	NA	NA	NA
RUNWAY DEPARTURE SURFACE		RESEARCH 1700	RESEARCH 1700	RESEARCH 1700	RESEARCH 1700
PERCENT WIND COVERAGE		85.5%	85.5%	85.5%	85.5%
RUNWAY DIMENSION (L x W)		3,884.7' x 3,840.0'	3,884.7' x 3,840.0'	3,884.7' x 3,840.0'	3,884.7' x 3,840.0'
RUNWAY END ELEVATION		3,884.7'	3,840.0'	3,884.7'	3,840.0'
TOUCH-DOWN ZONE ELEVATION		3,884.7'	3,840.0'	3,884.7'	3,840.0'
DISPLACED THRESHOLD ELEVATION		NA	3,840.0'	NA	NA
DISPLACED THRESHOLD		0'	800'	0'	1,180'
LINE OF SIGHT REQUIREMENT MET		YES	YES	YES	YES
EFFECTIVE SURFACE GRADIENT MAXIMUM GRADIENT		1.8% / 0.2%	1.8% / 0.2%	1.8% / 0.2%	1.8% / 0.2%
RUNWAY SURFACE TYPE		Asphalt	Asphalt	Asphalt	Asphalt
RUNWAY PAVEMENT STRENGTH (IN BRIDGES BS)		24,300	60,000	115	DTW
RUNWAY SURFACE TREATMENT		FIN	FIN	FIN	FIN
RUNWAY LIGHTING		MR	MR	MR	MR
RUNWAY MARKING		NON-PRESERVE	NON-PRESERVE	NON-PRESERVE	NON-PRESERVE
RUNWAY NAVIGATIONAL AIDS		NA	NA	NA	NA
RUNWAY VISUAL AIDS		FAFV4	FAFV4	FAFV4	FAFV4
RUNWAY SAFETY AREA BOUND STOP END (ACTUAL)		300	300	300	300
RUNWAY SAFETY AREA WIDTH		300	300	3,000	3,000
OBJECT FREE AREA BOUND STOP END (ACTUAL)		300	300	3,000	3,000
OBJECT FREE AREA WIDTH		300	300	300	300
OBSTACLE FREE ZONE BOUND STOP END (ACTUAL)		200	200	200	200
OBSTACLE FREE ZONE WIDTH		450	450	450	450
RUNWAY PROTECTION ZONE		1500X300	1000X300	1500X300	1500X300
TAXIWAY DESIGN GROUP (TDG)		TDG-2	TDG-2	TDG-3	TDG-3
TAXIWAY WIDTH		131'	131'	131'	131'
TAXIWAY OBJECT FREE AREA WIDTH		131'	131'	131'	131'
TAXIWAY SURFACE MATERIAL		ASPHALT	ASPHALT	ASPHALT	ASPHALT
TAXIWAY SAFETY AREA WIDTH		75'	75'	75'	75'
TAXIWAY TO RUNWAY SEPARATION		200'	200'	200'	200'
HOLDING TO RUNWAY CENTERLINE DISTANCE		100'	100'	100'	100'
TAXIWAY TO AIRCRAFT PARKING DISTANCE		100'	100'	100'	100'
TAXIWAY TO TAXI OBJECT DISTANCE		NONE	NONE	NONE	NONE
THRESHOLD SETTING SURFACE OBJECT		NONE	NONE	NONE	NONE
THRESHOLD SETTING SURFACE REQUIREMENTS (AS PER ICAO)		30.1	30.1	30.1	30.1
SW - Single Wheel					
DW - Dual Wheel					
DTW - Dual Tandem Wheel					

NOTES:
 HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 - NAD83; VERTICAL DATUM: NORTH AMERICAN DATUM 1983 - NAVD83
 RUNWAY END ELEVATIONS, COORDINATES, DISTANCES, AND BEARINGS NOTED IN THIS ALP ARE FROM THE AVN DATUMS.

EXISTING AIRPORT BUILDINGS		
NO.	DESCRIPTION	ELEV. (MSL)
1	TERMINAL BUILDING	3857.2
2	HANGAR	3811.7
3	APPROACH BEACON	3865.4
4	HANGAR	3865.4
5	HANGAR	3865.4
6	HANGAR	3865.4
7	HANGAR	3865.4
8	FUEL TANK	3828.5
9	ASPH	3828.5
10	ASPH	3828.5
11	WAREHOUSE	3828.5
12	INDUSTRIAL BUILDING (FOR REPAIRS)	3828.5
13	ICE	3814.25

ULTIMATE AIRPORT BUILDINGS		
NO.	DESCRIPTION	ELEV. (MSL)
1	TERMINAL BUILDING	3857.2
2	HANGAR	3811.7
3	APPROACH BEACON	3865.4
4	HANGAR	3865.4
5	HANGAR	3865.4
6	HANGAR	3865.4
7	HANGAR	3865.4
8	FUEL TANK	3828.5
9	ASPH	3828.5
10	ASPH	3828.5
11	WAREHOUSE	3828.5
12	INDUSTRIAL BUILDING (FOR REPAIRS)	3828.5
13	ICE	3814.25

TAXIWAY DESIGN GROUP			
	EXISTING	TDG	ULTIMATE
Taxiway A	50'	TDG-2	50'
Taxiway B	50'	TDG-2	50'
Taxiway C	50'	TDG-2	50'
Taxiway D	50'	TDG-2	50'
Taxiway E	50'	TDG-2	50'
Taxiway F	50'	TDG-2	50'
Taxiway G	50'	TDG-2	50'

RUNWAY DECLARED DISTANCES			
	EXISTING	ULTIMATE	
TAKEOFF RUN AVAILABLE (TORA)	7200	7200	7200
ACCELERATION STOP DISTANCE AVAILABLE (ASDA)	7200	7200	7200
LANDING DISTANCE AVAILABLE (LDA)	7200	8301	7200

EXACT PART II APPROACH SURFACE 34:1 SLOPE 3000' X 500' X 10,000'

DEVIATIONS TO STANDARDS		
DEVIATION DESCRIPTION	EFFECTED DESIGN STANDARD	PROPOSED DISPOSITION
VEGETATION IN EXISTING OFA	OBSTRUCTION TO OFA DESIGN STANDARD	SOFT WIDE AND SOFT BEYOND RUNWAY END. REMOVE OBSTRUCTING VEGETATION FROM EXISTING AND ULTIMATE OFA
PERIMETER FENCE IN EXISTING OFA	OBSTRUCTION TO OFA DESIGN STANDARD	SOFT WIDE AND SOFT BEYOND RUNWAY END. WHERE POSSIBLE, RELOCATE FENCE OUTSIDE OF ULTIMATE OFA. REQUEST RELOCATION TO DESIGN STANDARD WHERE FENCE CANT BE RELOCATED DUE TO TERMAN CONSTRAINTS
DRAINAGE DITCH IN ULTIMATE RSA WEST OF RUNWAY 3	OBSTRUCTION TO ULTIMATE RSA DESIGN STANDARD	SOFT WIDE AND 1,000 FT BEYOND DEPARTURE END. RELOCATE DRAINAGE DITCH OUTSIDE ULTIMATE RSA
RUNWAY GRADIENT EXCEEDS ULTIMATE DESIGN STANDARD	MAXIMUM RUNWAY LONGITUDINAL GRADIENT	1.8% Max Grade Change. REQUEST MODIFICATION TO DESIGN STANDARD

AIRPORT DATA			
OWNER	CITY	COUNTY	STATE
SANTA CRUZ COUNTY	NOGALES	SANTA CRUZ COUNTY	ARIZONA
AIRPORT NAME	NOGALES INTERNATIONAL AIRPORT - (OLG)		
AIRPORT REFERENCE CODE	5057		
AIRPORT ELEVATION	3865.4		
CRITICAL DESIGN AIRCRAFT	Boeing 737		
WINGSPAN / UNDERCARRIAGE / APPROACH SPEED	38 / 117' 2" / 113 KNOTS		
MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH	89.7 F		
AIRPORT REFERENCE POINT (RNP)	Latitude: 31.723889 N Longitude: 110.923889 W		
AIRPORT INSTRUMENT AVIATION	NA		
MISCELLANEOUS FACILITIES	Airport Beacon, Lighted Obstacle, ASOS		

RUNWAY END COORDINATES (NAD 83)		
RUNWAY	LATITUDE	LONGITUDE
EXISTING RUNWAY 3	N 31° 34' 38.15" W	W 110° 50' 22.481" E
EXISTING RUNWAY 21	N 31° 32' 28.362" W	W 110° 50' 22.388" E
ULTIMATE RUNWAY 21	N 31° 32' 28.457" W	W 110° 50' 22.388" E
DISPLACED THRESHOLD 21	N 31° 32' 22.245" W	W 110° 50' 28.884" E

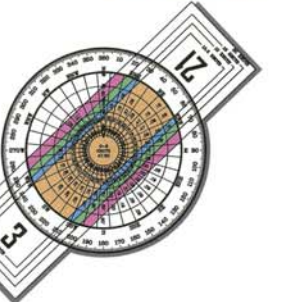
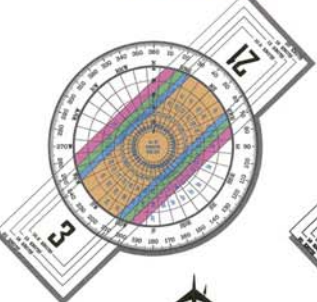
EXISTING	ULTIMATE	DESCRIPTION
---	---	AIRPORT PROPERTY LINE
---	---	SECTION CORNER
---	---	AIRPORT REFERENCE POINT (ARP)
---	---	AIRPORT ROTATING BEACON
---	---	STRUCTURES OF AIRPORT
---	---	BUILDING RESTRICTION LINE
---	---	STRUCTURES OF AIRPORT
---	---	TAXIWAY OFA
---	---	APPROACH PROTECTION ZONE (APZ)
---	---	AIRPORT PAVEMENT
---	---	APPROACH OBSTRUCTION PAYMENT
---	---	FENCE LINE
---	---	HELICOPTER PARKING
---	---	OBJECT FREE AREA
---	---	ALWAYS SAFETY AREA
---	---	OBSTACLE FREE ZONE
---	---	DEPARTURE PROTECTION ZONE (DPZ)
---	---	ALWAYS LINE CENTERLINE LIGHTS (ALL)
---	---	WINDROW
---	---	TOPOGRAPHIC CONTOURS
---	---	PAVED
---	---	TAXIWAY SAFETY AREA (TSA)
---	---	PROPERTY TO BE ACQUIRED



FAA APPROVAL STAMP
 Approved conditions: January 13, 2015
 Subject to comments contained in our letter dated 11-13-2015
 FEDERAL AVIATION ADMINISTRATION
 Written Public Notice
 by M. W. L.
 Manager, Airport Management - Phoenix

FOR APPROVAL BY

 12-17-2014



- GENERAL NOTES:
- EXISTING SURFACE AND SUBSURFACE DISCONTINUITIES, BARRIERS, AND OBSTRUCTIONS NOTED IN THIS ALP FROM AVN DATUMS.
 - HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 - NAD83; VERTICAL DATUM: NORTH AMERICAN DATUM 1983 - NAVD83.
 - UNLESS NOTED OTHERWISE, EXISTING BUILDING DIMENSIONS SHOWN IN THIS ALP FROM AVN DATA PREPARED BY SURVEYING INSTRUMENTS.
 - SEE AREA PORTION OF THE APPROACH SURFACE DIMENSIONS FOR THRESHOLD SURFACE DIMENSIONS.
 - SEE SHEET 2 AIRPORT PROPERTY MAP SHEET FOR AIR PROPERTY DIMENSION DETAILS.

NOGALES INTERNATIONAL AIRPORT
 AIRPORT LAYOUT PLAN
 DRAWING
 NOGALES, ARIZONA

PLANNED BY: Eric Pfeifer
 DETAILED BY: Mason Power
 APPROVED BY: Jason M. Harris, Principal

NOV 7, 2014 SHEET 2 of 9

Coffman Associates
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