RUNWAY DATA TABLE

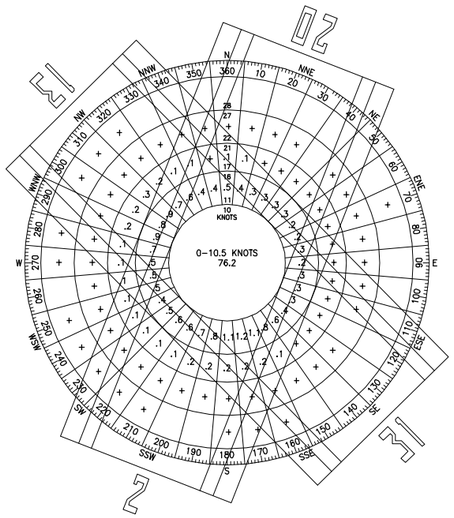
RUNWAY DATA	EXISTING				FUTURE (1-20 YEARS)				ULTIMATE (±20 YEARS)			
	RUNWAY 2-20*		RUNWAY 13-31*		RUNWAY 2-20*		RUNWAY 13-31*		RUNWAY 2-20*		RUNWAY 13-31*	
	RWY 2	RWY 20	RWY 13	RWY 31	RWY 2	RWY 20	RWY 13	RWY 31	RWY 2	RWY 20	RWY 13	RWY 31
RUNWAY LENGTH x WIDTH	6,501' x 150'		4,401' x 75'		7,400' x 150'		5,000' x 75'		7,400' x 150'		5,000' x 75'	
PAVEMENT SURFACE COURSE	CONCRETE (GROOVED)		ASPHALT		CONCRETE (GROOVED)		ASPHALT		CONCRETE (GROOVED)		ASPHALT	
PAVEMENT STRENGTH (LBS.)	125,000 (DWG) | 215,000 (DTWG)		12,500 (SWG)		125,000 (DWG) | 300,000 (DTWG)		30,000 (SWG)		125,000 (DWG) | 300,000 (DTWG)		30,000 (SWG)	
AIRPORT REFERENCE CODE (ARC)	ARC C-III		ARC B-II		ARC C/D-III		ARC B-II		ARC C/D-IV		ARC B-II	
REPRESENTATIVE CRITICAL AIRCRAFT	LARGE-CABIN BUSINESS JET / TRANSPORT		TWIN PISTON/TURBOPROP		NARROW-BODY TRANSPORT		TWIN TURBOPROP		HEAVY NARROW-BODY TRANSPORT		TWIN TURBOPROP	
CRITICAL AIRCRAFT STAGE LENGTH	500 MILES		500 MILES		1,500 MILES		500 MILES		1,500 MILES		500 MILES	
RUNWAY END LATTITUDE (NAD83)	38° 48' 18.780" (S)	38° 49' 18.590" (S)	38° 49' 43.890" (S)	38° 49' 12.910" (S)	38° 48' 18.780" (S)	38° 49' 26.882"	38° 49' 35.132"	38° 48' 59.925"	38° 48' 18.780" (S)	38° 49' 26.882"	38° 49' 35.132"	38° 48' 59.925"
RUNWAY END LONGITUDE (NAVD88)	92° 13' 25.420" (S)	92° 12' 55.400" (S)	92° 13' 30.040" (S)	92° 12' 51.020" (S)	92° 13' 25.420" (S)	92° 12' 51.280"	92° 13' 19.008"	92° 13' 19.008"	92° 13' 25.420" (S)	92° 12' 51.280"	92° 13' 19.008"	92° 13' 19.008"
RUNWAY BEARING (TRUE)	N21° 26' 24.0"E (S)		S44° 34' 48.0"E (S)		N21° 26' 24.0"E (S)		S44° 34' 48.0"E (S)		N21° 26' 24.0"E (S)		S44° 34' 48.0"E (S)	
RUNWAY END ELEVATION (MSL)	882.2' (S)	886.1' (S)	881.1' (S)	885.8' (S)	882.2' (S)	886.1'	888.5'	885.8'	882.2' (S)	886.1'	888.5'	885.8'
DISPLACED THRESHOLD ELEVATION (MSL)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RUNWAY TDZ ELEVATION (MSL)	889.3' (S)	889.3' (S)	888.4' (S)	888.3' (S)	889.3' (S)	889.2'	886.2'	886.4'	889.3' (S)	889.2'	886.2'	886.4'
RUNWAY HIGH-POINT ELEVATION (MSL)	889.3' (S)		885.8' (S)		889.3' (S)		888.5'		889.3' (S)		888.5'	
RUNWAY LOW-POINT ELEVATION (MSL)	882.2' (S)		881.1' (S)		882.2'		881.1'		882.2'		881.1'	
EFFECTIVE GRADIENT (%)	+0.06%	-0.06%	-0.06%	+0.06%	-0.06%	+0.06%	-0.06%	+0.06%	-0.06%	0.06%	-0.06%	+0.06%
RUNWAY INSTRUMENT APPROACH AIDS	ILS | LOC | RNAV	LOC-BC | VOR/DME | RNAV	RNAV (GPS)	RNAV (GPS)	ILS | LOC | WAAS (RNP)	WAAS (RNP) | VOR/DME	WAAS | RNAV (RNP)	WAAS | RNAV (RNP)	ILS | LOC | WAAS (RNP)	WAAS (RNP) | VOR/DME	WAAS | RNAV (RNP)	WAAS | RNAV (RNP)
INSTRUMENT APPROACH MINIMUMS	½-Mile / 200'	¾-Mile/250'	1-Mile/±330	1-Mile/±330	½-Mile / 200'	½-Mile / ±200'	1-Mile/±300	1-Mile/±300	½-Mile / 200'	½-Mile / ±200'	1-Mile/±300	1-Mile/±300
FAR PART 77 APPROACH SURFACE	1,000' x 50,000' x 16,000'	1,000' x 10,000' x 4,000'	500' x 5,000' x 2,000'	500' x 5,000' x 2,000'	1,000' x 50,000' x 16,000'	1,000' x 50,000' x 16,000'	500' x 10,000' x 3,500'	500' x 10,000' x 3,500'	1,000' x 50,000' x 16,000'	1,000' x 50,000' x 16,000'	500' x 10,000' x 3,500'	500' x 10,000' x 3,500'
FAR PART 77 APPROACH SLOPE	50:1/40:1	34:1	20:1	20:1	50:1/40:1	50:1/40:1	34:1	34:1	50:1/40:1	50:1/40:1	34:1	34:1
VISUAL APPROACH AIDS	MALSR	ODALS | VASI-4L | REIL	REIL | VASI-2L	REIL | VASI-2L	MALSR	ODALS | MALSR	REIL | PAPI-2L	REIL | PAPI-2L	MALSR	ODALS | MALSR	REIL | PAPI-2L	REIL | PAPI-2L
RUNWAY LIGHTING	HIRL		MIRL		HIRL		MIRL		HIRL		MIRL	
RUNWAY MARKING	PRECISION (PI)		NON-PRECISION (NPI)		PRECISION (PI)		NON-PRECISION (NPI)		PRECISION (PI)		NON-PRECISION (NPI)	
RUNWAY OBJECT FREE AREA (ROFA)	800' WIDE x 1,000' BEYOND		500' WIDE x 300' BEYOND		800' WIDE x 1,000' BEYOND		500' WIDE x 300' BEYOND		800' WIDE x 1,000' BEYOND		500' WIDE x 300' BEYOND	
RUNWAY SAFETY AREA (RSA)	500' WIDE x 1,000' BEYOND		150' WIDE x 300' BEYOND		500' WIDE x 1,000' BEYOND		150' WIDE x 300' BEYOND		500' WIDE x 1,000' BEYOND		150' WIDE x 300' BEYOND	
RUNWAY OBSTACLE FREE ZONE (OFZ)	400' WIDE x 200' BEYOND		250' WIDE x 200' BEYOND		400' WIDE x 200' BEYOND		250' WIDE x 200' BEYOND		400' WIDE x 200' BEYOND		250' WIDE x 200' BEYOND	
PRECISION OBSTACLE FREE ZONE (POFZ)	800' WIDE x 200' BEYOND	N/A	N/A	N/A	800' WIDE x 200' BEYOND	800' WIDE x 200' BEYOND	N/A	N/A	800' WIDE x 200' BEYOND	800' WIDE x 200' BEYOND	N/A	N/A
RUNWAY PROTECTION ZONE (RPZ)	1,000' x 2,500' x 1,750'	1,000' x 1,700' x 1,510'	500' x 1,000' x 700'	500' x 1,000' x 700'	1,000' x 2,500' x 1,750'	1,000' x 2,500' x 1,750'	500' x 1,000' x 700'	500' x 1,000' x 700'	1,000' x 2,500' x 1,750'	1,000' x 2,500' x 1,750'	500' x 1,000' x 700'	500' x 1,000' x 700'
RUNWAY-TO-TAXIWAY CENTERLINE	400'		355'		400'		355'		400'		355'	
RSA OBJECT PENETRATION(S)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
OFZ OBJECT PENETRATION(S)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
TSS OBJECT PENETRATION(S)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
RUNWAY LINE-OF-SIGHT VIOLATION	YES (FAA MOS)	NONE	NONE	YES (FAA MOS)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

SOURCE: AIRPORT ELEVATION AND COORDINATES PER FAA DATASHEET: 10-09-2000 NGS 405 SURVEY.
ABBREVIATIONS: (S) - SURVEYED | (C) - CALCULATED | SWG) - SINGLE WHEEL GEAR AIRCRAFT | (DWG) - DUAL WHEEL GEAR AIRCRAFT.
NOTE: * INDICATES FAA/MODOT ELIGIBLE RUNWAY.

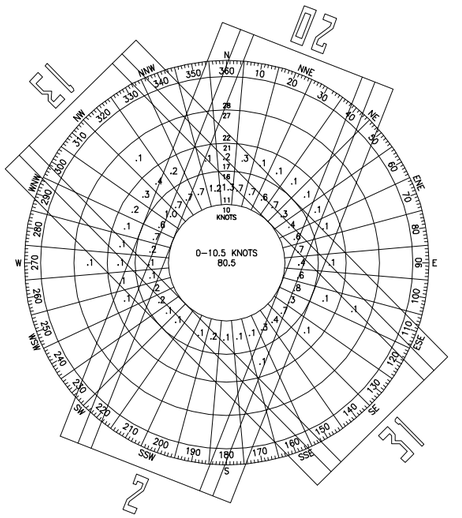
MODIFICATIONS OF DESIGN STANDARDS

NO.	DESCRIPTION OF FAA STANDARD MODIFIED	FAA AIRSPACE CASE NUMBER	DATE APPROVED
1	RUNWAY VISIBILITY ZONE BETWEEN RUNWAY 20 AND RUNWAY 13	N/A	06-01-1990

NOTE: EXISTING MODIFICATION (NO 1) RVZ HAS BEEN RESOLVED PER FUTURE AIRFIELD (RUNWAY) IMPROVEMENTS.



ALL WEATHER WIND ROSE



IFR WIND ROSE

WIND DATA TABLE

RUNWAY	10.5 KNOTS	13 KNOTS	16 KNOTS	20 KNOTS
RUNWAY 2-20 (ALL WEATHER)	89.33%	94.15%	98.25%	99.59%
RUNWAY 13-31 (ALL WEATHER)	91.21%	95.37%	98.61%	99.63%
RUNWAY COMBINED (ALL WEATHER)	97.94%	99.36%	99.81%	99.96%
RUNWAY 2-20 (IFR)	90.18%	94.36%	98.36%	99.69%
RUNWAY 13-31 (IFR)	93.51%	96.73%	99.32%	99.94%
RUNWAYS COMBINED (IFR)	98.42%	99.54%	99.90%	100.00%

DATA SOURCE: NATIONAL CLIMATIC DATA CENTER
STATION: COLUMBIA REGIONAL AIRPORT
PERIOD OF RECORD: 1998-2007
NO. OF OBSERVATIONS: 83,331

DECLARED DISTANCES

RUNWAY END	TORA	TODA	ASDA	LDA	STOPWAY / CLEARWAY
RUNWAY 2 (E)	6,501	6,501	6,501	6,501	0' / 0'
RUNWAY 20 (E)	6,501	6,501	6,501	6,501	0' / 0'
RUNWAY 13 (E)	4,401	4,401	4,401	4,401	0' / 0'
RUNWAY 31 (E)	4,401	4,401	4,401	4,401	0' / 0'
RUNWAY 2 (U)	7,400'	7,400'	7,400'	7,400'	0' / 0'
RUNWAY 20 (U)	7,400'	7,400'	7,400'	7,400'	0' / 0'
RUNWAY 13 (U)	5,000'	5,000'	5,000'	5,000'	0' / 0'
RUNWAY 31 (U)	5,000'	5,000'	5,000'	5,000'	0' / 0'

TORA - TAKEOFF RUN AVAILABLE | TODA - TAKEOFF DISTANCE AVAILABLE
ASDA - ACCELERATE STOP DISTANCE AVAILABLE | LDA - LANDING DISTANCE AVAILABLE

ALD NOTES:

AIRPORT DIGITAL AERIAL BASE MAP OBTAINED FROM MARTINEZ GEOSPATIAL (OCTOBER, 2008).
AIRPORT TOPOGRAPHIC CONTOUR DATA OBTAINED FROM CITY OF COLUMBIA, GIS DEPARTMENT (MAY, 2009).
AIRPORT ELEVATION AND COORDINATES PER FAA DATABASE SHEET: 10-09-2000 NGS 405 SURVEY IN NAD 83 AND NAVD 88 DATUMS.
BUILDING RESTRICTION LINE (BRL) ESTABLISHED TO PROVIDE 35' OBSTACLE CLEARANCE BASED ON FAR PART 77 SURFACES.
AIRPORT PROPERTY BOUNDARY PER APPROVED JUNE 2002 COU ALP PROPERTY MAP - UPDATED PER COUNTY GIS RECORDS (JUNE, 2009).

VOR-DME ANTENNA STATION LOCATED ON-AIRPORT (38-48.65 | 92-13.10).
COU ASOS STATION (38-49-04.70 | 92-13-10.50).
AIRPORT DESIGN STANDARDS REFLECT FAA ADVISORY CIRCULAR 150/5300-13, CHANGE #14.

(E) - EXISTING CONDITIONS
(F) - FUTURE CONDITIONS (1-20 YEARS)
(U) - ULTIMATE CONDITIONS (±20-YEARS)

NO EXISTING OR FUTURE RSA OBJECT PENETRATIONS | NO EXISTING OR FUTURE OFZ OBJECT PENETRATIONS | NO EXISTING OR FUTURE TSS OBJECT PENETRATIONS.

AIRPORT DATA TABLE

AIRPORT DATA	EXISTING	FUTURE (1-20 YEARS)	UTIMATE (±20 YEARS)
AIRPORT REFERENCE CODE (ARC)	ARC C-III	ARC C-III	ARC D-IV
AIRCRAFT APPROACH CATEGORY (AAC)	CATEGORY C	CATEGORY C	CATEGORY D
AIRPLANE DESIGN GROUP - WINGSPAN (ADG)	GROUP III (<79')	GROUP III (<79')	GROUP IV (<118')
AIRPLANE DESIGN GROUP - TAIL HEIGHT (ADG)	GROUP III (<30')	GROUP III (<30')	GROUP IV (<45')
FAA NPIAS SERVICE LEVEL	COMMERCIAL SERVICE	COMMERCIAL SERVICE	COMMERCIAL SERVICE
MODOT SERVICE LEVEL (SYSTEM PLAN)	COMMERCIAL	COMMERCIAL	COMMERCIAL
CRITICAL/DESIGN AIRCRAFT (TYPE)	LARGE CABIN BUSINESS JET / NARROW-BODY TRANSPORT	NARROW-BODY TRANSPORT	NARROW-BODY TRANSPORT
AIRPORT FIELD ELEVATION (MSL)	889.38'	889.38'	889.38'
ARP - LATTITUDE (NAD83)	38° 49' 04.700"	38° 49' 02.790"	38° 49' 02.790"
ARP LONGITUDE (NAVD88)	92° 13' 10.500"	92° 13' 03.700"	92° 13' 03.700"
AIRPORT TERMINAL NAVAIDS	ILS/DME | VORTAC (L) | NDB (LOM) | GPS (RNAV) | ATC	ILS/DME | VORTAC (L) | NDB (LOM) | GPS (RNAV) | ATC	ILS/DME | VORTAC (L) | NDB (LOM) | GPS (RNAV) | ATC
MAGNETIC VARIATION (VFR CHART)	0° 46' EAST (AUGUST, 2009)	0° 52' EAST (AUGUST, 2009)	0° 52' EAST (AUGUST, 2009)
MEAN MAX. TEMPERATURE (HOTTEST MONTH)	89° (JULY)	89° (JULY)	89° (JULY)
TAXIWAY LIGHTING	MITL | SIGNS	MITL | SIGNS	MITL | SIGNS

SOURCE: AIRPORT ELEVATION AND COORDINATES PER FAA DATASHEET: 10-09-2000 NGS 405 SURVEY.
SOURCE: MAGNETIC VARIATION FROM NOAA, NATIONAL GEOPHYSICAL DATA CENTER (NGDC) (AUGUST, 2009).
SOURCE: MEAN MAXIMUM TEMPERATURE: NOAA CLIMATIC DISKETTE, COLUMBIA REGIONAL AIRPORT AP ASOS STATION (2008).

TAXIWAY & TAXILANE DESIGN CRITERIA

TAXIWAY & TAXILANE DESIGN CRITERIA ITEM	DESIGN GROUP I	DESIGN GROUP II	DESIGN GROUP III	DESIGN GROUP IV
TAXIWAY WIDTH	25'	35'	50'	75'
TAXIWAY SHOULDER WIDTH	10'	10'	20'	25'
TAXIWAY SAFETY AREA WIDTH	49'	79'	118'	171'
TAXIWAY OBJECT FREE AREA (TOFA) WIDTH	89' (44.5')	131' (65.5')	186' (93')	259' (129.5')
TAXILANE OBJECT FREE AREA (TOFA) WIDTH	79' (39.5')	115' (57.5')	162' (81')	225' (112.5')
TAXIWAY WINGTIP CLEARANCE	20'	26'	34'	44'
TAXILANE WINGTIP CLEARANCE	15'	18'	22'	27'
TAXIWAY TURN RADIUS	75'	75'	100'	150'
RUNWAY-TO-TAXIWAY CENTERLINE	400'	400'	400'	400'
RUNWAY CENTERLINE-TO-HOLDLINE	250'	250'	250'	250'
RUNWAY CENTERLINE-TO-PARKING AREA	500'	500'	500'	500'

NAVAID / COMMUNICATION EQUIPMENT DATA TABLE

EQUIPMENT	LATTITUDE	LONGITUDE	ELEVATION
VORTAC STATION (L)	38-48-38.964N	092-13-05.786W	883'
ASOS STATION	38-49-04.700N	092-13-10.500W	N/A
RWY 2 ILS GLIDESLOPE	38-48-27.923N	092-13-15.396W	N/A
RWY 2 ILS LOCALIZER	38-49-24.105N	092-12-52.635W	N/A
DME TRANSPONDER	38-49-23.953N	092-12-50.084W	N/A
RWY 2 ILS BEACON (IM)	38-43-00.220N	092-16-06.220W	N/A
RWY 2 ILS BEACON (LOM)	38-47-46.632N	092-13-41.667W	N/A

SOURCE: FAA DATASHEET (OBTAINED APRIL, 2009).

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COLUMBIA REGIONAL Airport

AIRPORT LAYOUT PLAN

CONSULTANTS

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: SEPTEMBER, 2009
REVIEWED BY:
DRAWN BY: TJM
DESIGNED BY: JPS/LBG

AEP PROJECT NUMBER
213-9588-000

SHEET TITLE

DATA SHEET

SHEET NUMBER

2 OF 15

PRELIMINARY DOCUMENTS