

(AIISS6,AIISS) 24025
AIISS SIX DEPARTURE (RNAV)

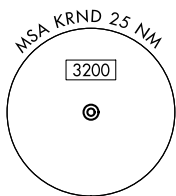
AL-341 (FAA)

RANDOLPH AFB (KRND)
UNIVERSAL CITY, TEXAS

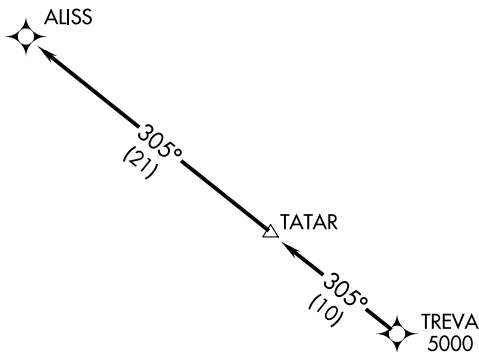
SAN ANTONIO DEP CON
127.1 290.225
ATIS ★
290.525
ATIS (HANGOVER) ★
327.8
CLNC DEL (Rwy 15L-33R)
338.35
GND CON
119.65 275.8
GND CON (HANGOVER)
124.75 353.75)
TOWER ★
128.25 294.7
HANGOVER TOWER ★
120.5 291.1

**TOP ALTITUDE:
ASSIGNED BY ATC**

RNAV 1 - GPS.
RADAR required.



TAKEOFF MINIMUMS
Rwys 15L/R, 33L/R: Standard.



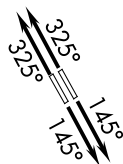
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 15L/R: Climb on heading 145° or as assigned by ATC,
for vectors to TREVA, thence . . .

TAKEOFF RUNWAYS 33L/R: Climb on heading 325° or as assigned by ATC,
for vectors to TREVA, thence . . .

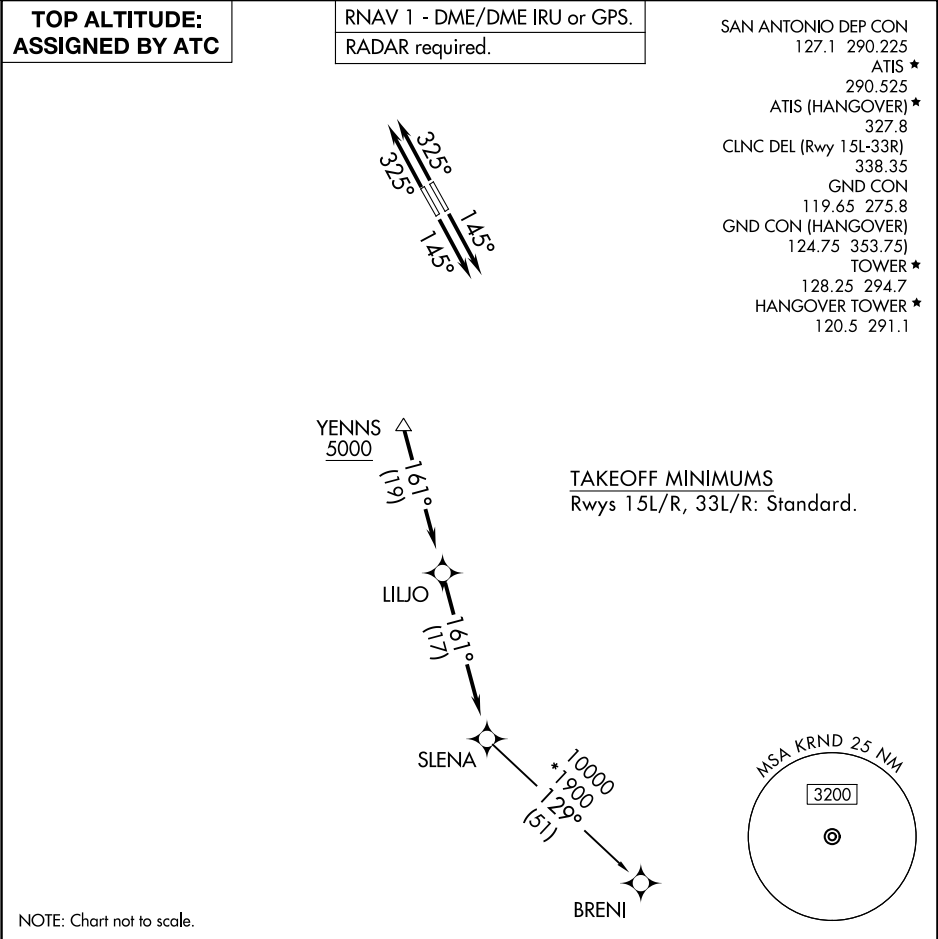
. . . on track 305° to TATAR, then on track 305° to AIISS.
Maintain ATC assigned altitude.

NOTE: Chart not to scale.



AIISS SIX DEPARTURE (RNAV)
(AIISS6,AIISS) 25JAN24

UNIVERSAL CITY, TEXAS
RANDOLPH AFB (KRND)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 15L/R: Climb on heading 145° or as assigned by ATC, for vectors to YENNS, thence

TAKEOFF RUNWAY 33L/R: Climb on heading 325° or as assigned by ATC, for vectors to YENNS, thence

. . . . on track 161° to LILJO, then on track 161° to SLENA, then on transition.
Maintain ATC assigned altitude.

BRENI TRANSITION (SLENA1.BRENI)

SC-3, 22 FEB 2024 to 21 MAR 2024

SC-3, 22 FEB 2024 to 21 MAR 2024

SNDR ONE DEPARTURE (RNAV)
(SNDR1.SNDR) 25JAN24

SAN ANTONIO DEP CON
127.1 290.225
ATIS ★
290.525
ATIS (HANGOVER) ★
327.8
CLNC DEL (Rwy 15L-33R)
338.35
GND CON
119.65 275.8
GND CON (HANGOVER)
124.75 353.75
TOWER ★
128.25 294.7
HANGOVER TOWER ★
120.5 291.1

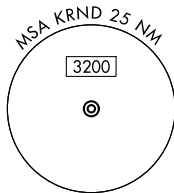
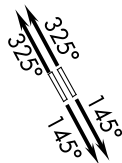
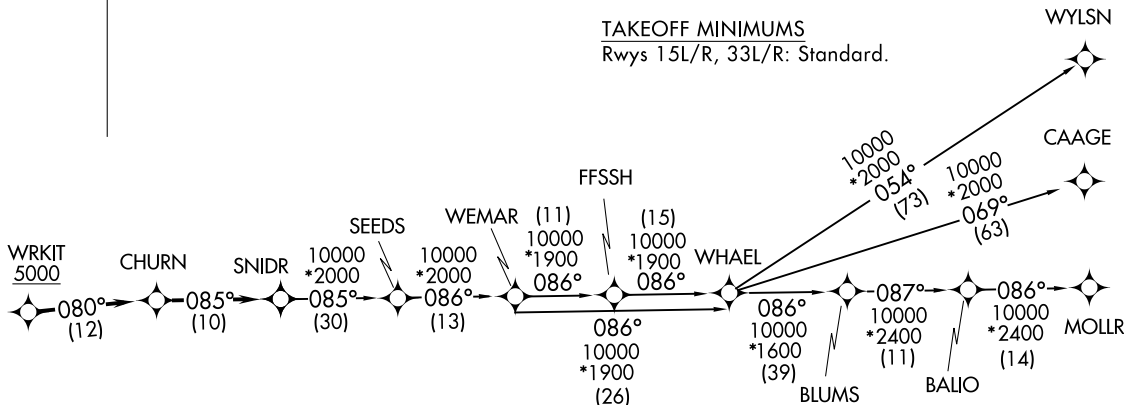


RNAV 1 - DME/DME IRU OR GPS.

RADAR required.

**TOP ALTITUDE:
ASSIGNED BY ATC**

TAKEOFF MINIMUMS
Rwys 15L/R, 33L/R: Standard.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 15L/R: Climb on heading 145° or as assigned by ATC, for vectors to WRKIT, thence . . .

TAKEOFF RUNWAYS 33L/R: Climb on heading 325° or as assigned by ATC, for vectors to WRKIT, thence . . .

. . . on track 080° to CHURN, then on track 085° to SNIDR, then on transition. Maintain ATC assigned altitude.

BLUMS TRANSITION (SNDR1.BLUMS)

CAAGE TRANSITION (SNDR1.CAAGE)

FFSSH TRANSITION (SNDR1.FFSSH)

MOLLR TRANSITION (SNDR1.MOLLR)

SEEDS TRANSITION (SNDR1.SEEDS)

WEMAR TRANSITION (SNDR1.WEMAR)

WHAEL TRANSITION (SNDR1.WHAEL)

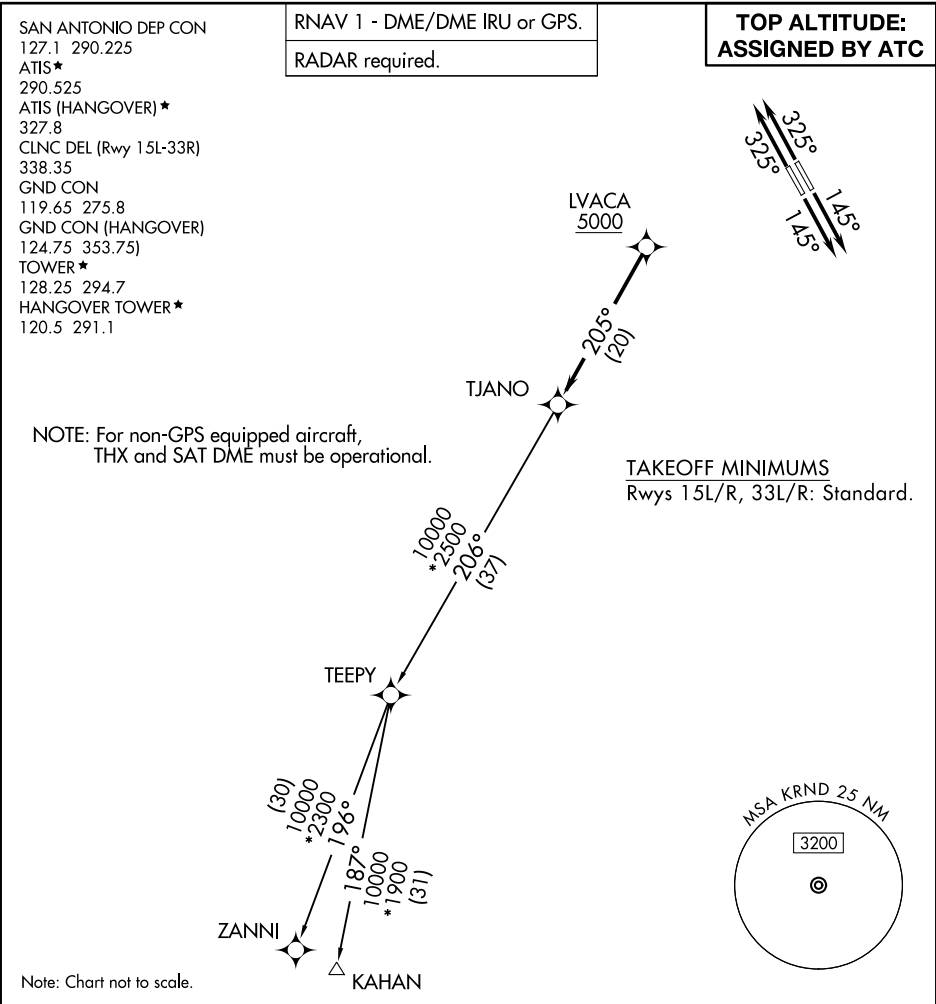
WYLSN TRANSITION (SNDR1.WYLSN)

(SNDR1.SNDR) 24025
SNDR ONE DEPARTURE (RNAV)

AL-341 (FAA)

RANDOLPH AFB (KRND)
UNIVERSAL CITY, TEXAS

UNIVERSAL CITY, TEXAS
RANDOLPH AFB (KRND)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 15L/R: Climb on heading 145° or as assigned by ATC, for vectors to LVACA, thence . . .
TAKEOFF RUNWAYS 33L/R: Climb on heading 325° or as assigned by ATC, for vectors to LVACA, thence . . .

. . . on track 205° to TJANO, then on Transition. Maintain ATC assigned altitude.

KAHAN TRANSITION (TJANO1.KAHAN)
ZANNI TRANSITION (TJANO1.ZANNI)

SC-3, 22 FEB 2024 to 21 MAR 2024

SC-3, 22 FEB 2024 to 21 MAR 2024

YODUH ONE DEPARTURE (RNAV)

UNIVERSAL CITY, TEXAS

RNAV 1 - DME/DME IRU or GPS.

**TOP ALTITUDE:
ASSIGNED BY ATC**

RADAR required.

SAN ANTONIO DEP CON

127.1 290.225

ATIS ★

290.525

ATIS (HANGOVER) ★

327.8

CLNC DEL (Rwy 15L-33R)

338.35

GND CON

119.65 275.8

GND CON (HANGOVER)

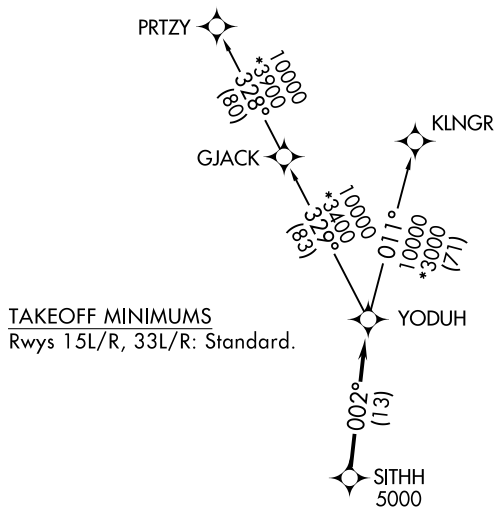
124.75 353.75)

TOWER

128.25 294.7

HANGOVER TOWER ★

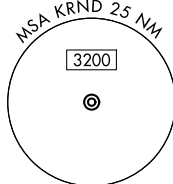
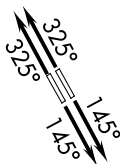
120.5 291.1



TAKEOFF MINIMUMS

Rwys 15L/R, 33L/R: Standard.

NOTE: Aircraft destined for airports north/northeast of DFW terminal area must file the KLNGR Transition.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 15L/R: Climb on heading 145° or as assigned by ATC, for vectors to SITHH, thence . . .

TAKEOFF RUNWAYS 33L/R: Climb on heading 325° or as assigned by ATC, for vectors to SITHH, thence . . .

... on track 002° to YODUH, then on Transition. Maintain ATC assigned altitude.

KLNGR TRANSITION (YODUH1.KLNGR)

PRTZY TRANSITION (YODUH1.PRTZY)

YODUH ONE DEPARTURE (RNAV)

(YODUH1.YODUH) 25JAN24

UNIVERSAL CITY, TEXAS
RANDOLPH AFB (KRND)

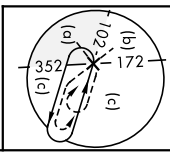
HI-ILS or LOC Z RWY 15L

[USAF]

MISSED APPROACH: Climb to 1 500, then climbing left turn heading 024° to 3000, intercept DHK TACAN R-054 to WIMVI and hold.

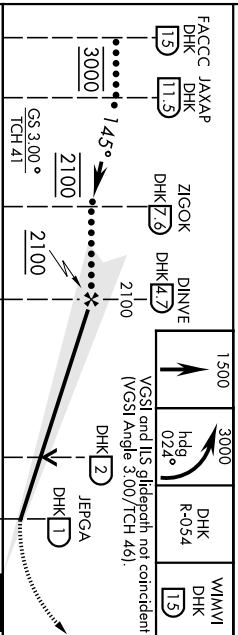
$$\frac{Z}{\sqrt{N}}$$

Simultaneous approaches authorized with Rwy 15L and 15R.



ELEV	761	TDZE	742
------	-----	------	-----

EMERG SAFE ALT 100 NM 4100



HRL all rwy's	335
ALS Rwy 15L nstd len	2100

FAF to MAP 3.7 NM					
Knots	120	140	160	180	200
Min:Sec	1:51	1:35	1:23	1:14	1:07

UNIVERSAL CITY, TEXAS

29°32'N-98°17'W

RANDOLPH AFB (KRND)

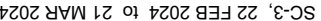
Amdt 3 28DEC23

HI-ILS or LOC Z RWY 15L

HI-ILS or LOC Z RWY 33R

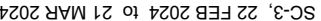
RANDOLPH AFB (KRND)

[USAF]



SC-3, 22 FEB 2024 to 21 MAR 2024

SC-3, 22 FEB 2024 to 21 MAR 2024



SC-3, 22 FEB 2024 to 21 MAR 2024

RANDOLPH AFB (KRND)

29°32'N-98°17'W

RANDOLPH AFB (KRND)

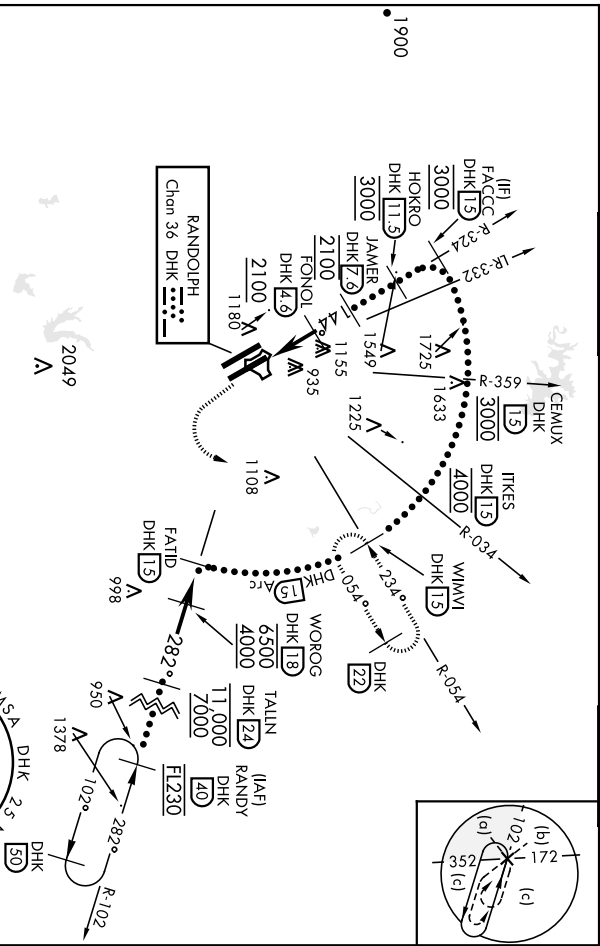
[USAF]

[USAF]

RANDOLPH AFB (KRND)

MISSED APPROACH: Track heading 145 to 1500. Then climbing left turn heading 024° to 3000. Intercept DHK TACAN R-054 to WIMVI and hold.

ATTN★	TOWER★	GND CON	CLNC DEL (RWY 15L-38R)	HANGOVER ATTN★	HANGOVER TOWER★	HANGOVER GND CON
SAN ANTONIO APP CON						
290.525	128.05	318.1	128.25	294.7	119.65	275.8
			338.35	327.8	120.5	291.1
					124.75	353.75



EMERG SAFE ALT 100 NM 4100

ELEV 761

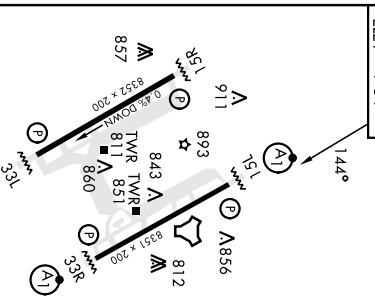


Diagram illustrating the 1000m race course layout at the Tokyo 2020 Olympic Stadium, showing the track, starting point, and key locations for the race.

Track Layout and Key Locations:

- Start:** FACCC HOKKO (DHK 13) and DHK 11.5
- 200m Mark:** JAMER (DHK 7.6) and FONOL (DHK 4.6)
- 400m Mark:** WUROT (DHK 1)

Track Dimensions and Markers:

- Track length: 1000m
- Track width: 3.6 NM
- Track width: 0.5 NM

Category and Race Information:

CATEGORY	C	D	E
CIRCLING*	1320-1½ 559 (600-1½)	1800-3 1039 (1100-3)	

HRL all rwy
ALS Rwy 15L nsd len 2100'

UNIVERSAL CITY, TEXAS

Amdt 7 28DEC23

29° 32' N - 98° 17' W

RANDOLPH AFB (KR)

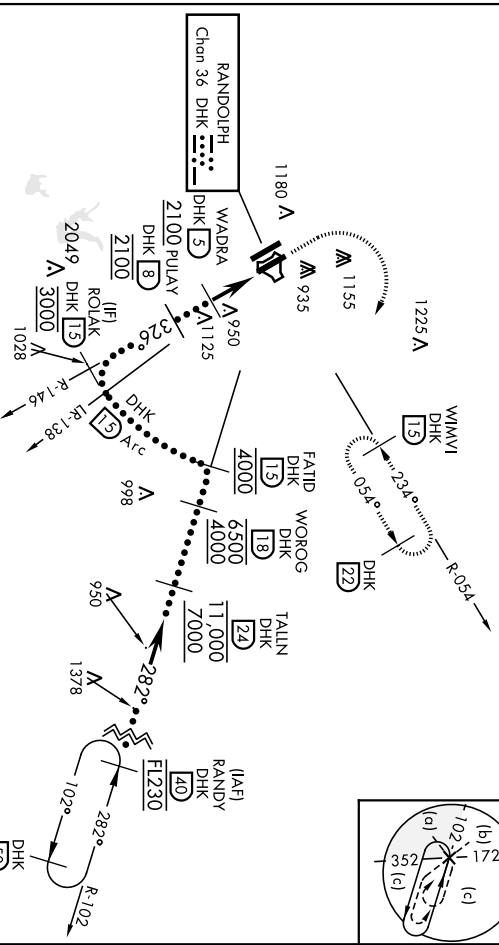
HI-TACANA

23362

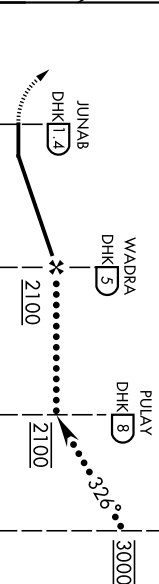
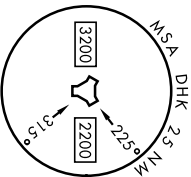
RANDOLPH AFB (KRND)

MISSED APPROACH: Track 327° to 1500, then climbing right turn heading 084° to 3000. Intercept DHK TACAN R-054 direct WIMVI and hold.

● 1585



ELEV 761



1800-3	1039	(1100-3)
--------	------	----------

RANDOLPH AFB (KRND)

HI-TACAN B

LOC I-TRT 109.9	APCH CRS 145°	Rwy Idg TDZE Airt Flev 8351 742 761
---------------------------	-------------------------	---

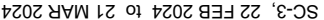
RANDOLPH AFB (KRND)

* When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE to 1 $\frac{3}{8}$ miles.

A1

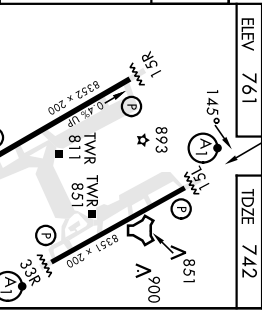
MISSED APPROACH: Climb to 1500, then climbing left turn heading 024° to 3000. Intercept DHK TACAN R-054 to WIMV1 and hold.

Simultaneous approaches authorized
with Rwy 15L and 15R.



SC-3, 22 FEB 2024 to 21 MAR 2024

EMERG SAFE ALT 100 NM 4100



UNIVERSAL CITY,
Amdt 3 28DEC23

29°32'N-98°17'W

ILS or LOC Y Rwy 15L

RANDOLPH AFB (KRND)

ILS or LOC Y Rwy 33R

LOC I-RND <u>109.3</u>	APCH CRS <u>325°</u>	Rwy Idg 8351 TDZE 733 Apch Elev 761	[USAF]	
			RANDOLPH AFB (KRND)	

RADAR or DME required

* When ALS inop, increase RVR to 40 and vis to ¾ mile.
 ** When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE vis to 1¾ miles.

*** Circling not authorized SW of Rwy 15L-33R.

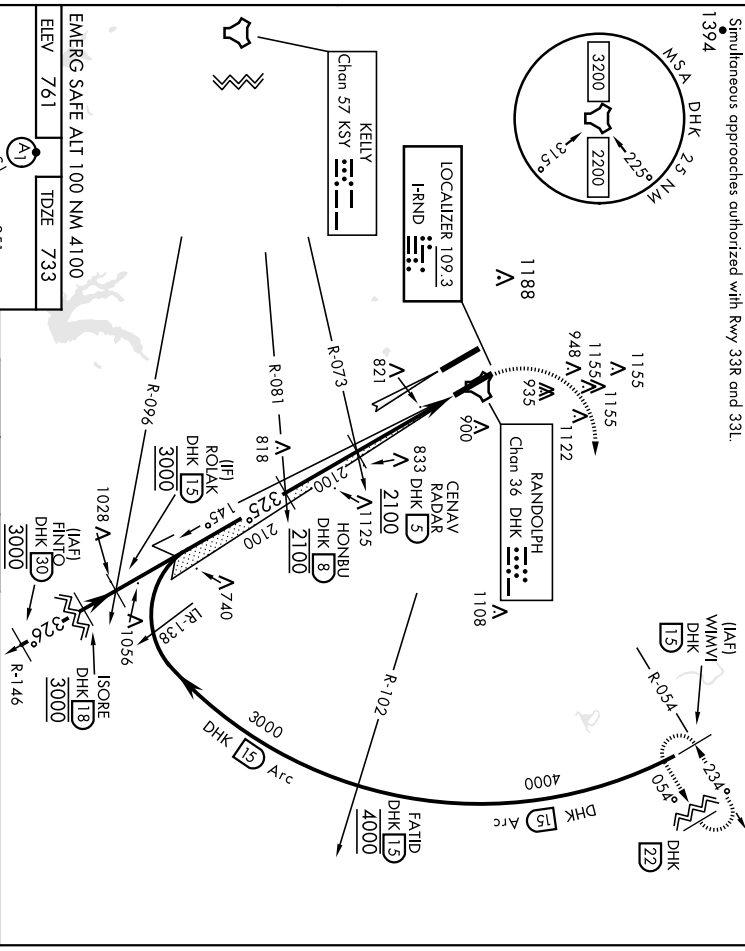
*** Circling not authorized SW of Rwy 15L-33R.

*** Circling not authorized SW of Rwy 15L-33R.

MISSED APPROACH: Climb to 1500, then climbing right turn hdg 084° to 3000. Intercept DHK R-054 to WIMVI and hold.

ATIS ★	SAN ANTONIO APP CON	TOWER ★	GND CON	CINC DEL (RWY 15L-33R)	HANGOVER ATIS ★	HANGOVER TOWER ★	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75

Simultaneous approaches authorized with Rwy 33R and 33L.



EMERG SAFE ALT 100 NM 4100

FIFV

ID

33

Table 1: Airport Data

CATEGORY	A	B	C	D	E
S-ILS 33R *			200	(200-1/2)	
S-LOC 33R **					
S-LOC 33R ***					
S-LOC 33R ****					
S-LOC 33R *****					

Table 2: Airport Details

NAME	CLASS	TYPE	LOC	ALT	COMMENTS
HIREL	1	ILS	33R	200	(200-1/2)
WIKAWI	1	ILS	15	1500	
CENAY	1	ILS	5	2100	
HONBU	1	ILS	8	2100	
ROLAK	1	ILS	15	3000	

Table 3: Flight Path Data

Waypoint	Distance (NM)	Altitude (ft)	Remarks
1500	3000	084°	hdg
DHK	R-054		
WIKAWI	15		
CENAY	5		
HONBU	8		
ROLAK	15		

Table 4: Additional Data

NAME	CLASS	TYPE	LOC	ALT	COMMENTS
HIREL	1	ILS	33R	200	(200-1/2)
WIKAWI	1	ILS	15	1500	
CENAY	1	ILS	5	2100	
HONBU	1	ILS	8	2100	
ROLAK	1	ILS	15	3000	

UNIVERSAL CITY, TEXAS

29° 32' N-98° 17' W

RANDOLPH AFB (KRND)

Amdt 4 28DEC23

ILS or LOC Y Rwy 33R

[USAF]

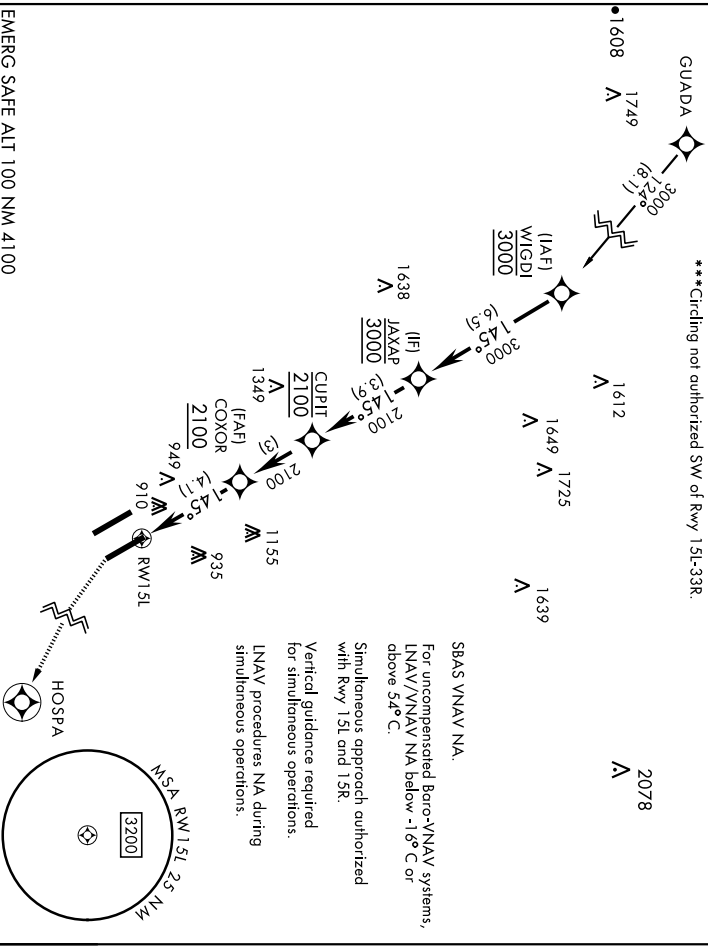
RANDOLPH AFB (KRND)

APCH CRS	Rwy Idg 8351 TDZE 742		
145°	Arpt Elev 761		
RNP APCH - GP5			
*When AIS inop, increase CAT ABG RVR to 4.5, vis to 1 mile. CAT DE RVR to 50, vis to 1 mile. **When AIS inop, increase CAT AB RVR to 55, vis to 1 mile. CAT CDE vis to 1% miles.		ALSF-1 	
RANDOLPH AFB (KRND) MISSED APPROACH: Climb to 1500, then climbing left turn to 3000 direct HOSPA. Expect ATC instructions.			

*When ALS inop, increase CAT ABC RVR to 45, vis to $\frac{7}{8}$ mile, CAT DE RVR to 50, vis to 1 mile.
**When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE vis to $1\frac{3}{8}$ miles.

MISSED APPROACH: Climb to 1500, then climbing left turn to 3000 direct HOSPA. Expect ATC instructions.

***Circling not authorized SW of Rwy 15L-33R.



SBAS VNAV NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.6°C or above 54°C .

Simultaneous approach authorized with Rwy 15L and 15R.

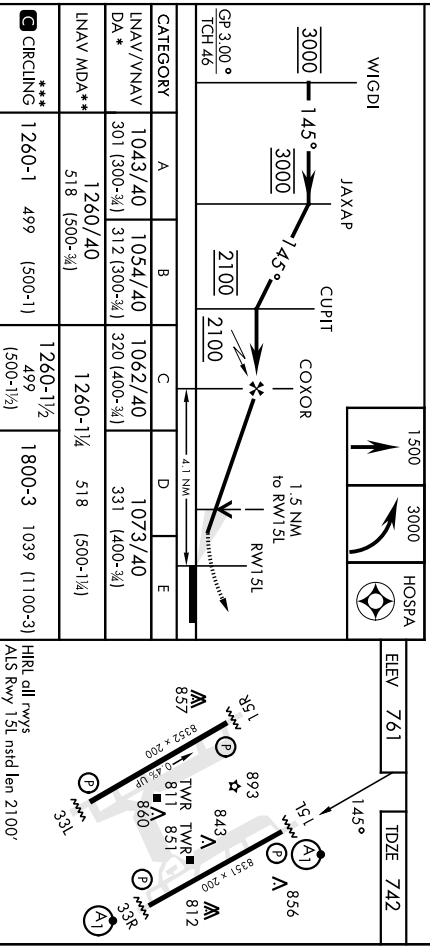
Vertical guidance required for simultaneous operations.

LNAV procedures NA during simultaneous operations.

SC-3, 22 FEB 2024 to 21 MAR 2024

SC-3, 22 FEB 2024 to 21 MAR 2024

EMERG SAFE ALT 100 NM 4100



UNIVERSAL CITY, TEXAS
Amdt 4 28DEC23

29°32'N-98°17'W

RANDOLPH AFB (KRND)

RNAV (GPS) RWY 15L

AL-341 [USAF]

APCH CRS 145°	Rwy Idg TDZE Arpt Elev	8352 761 761
-------------------------	------------------------------	---

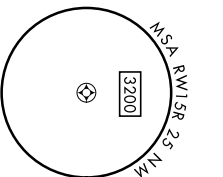
*Circling not authorized NE of Rwy 15R-33L

1581
● A GUADA
1749
4005
1300
(IAF)
2078
A

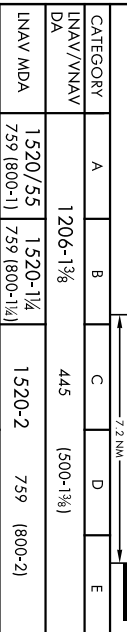
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C.

Vertical guidance required for simultaneous operations.

simultaneous operations.



WAXEL	AVIBI	1 600	3 000	GIVKE
HE TAL				



29°32'N-98°17'W

Amdt 3 10AUG23

RANDOLPH AFB (KRND)
RNAV (GPS) RWY 15R

RNAV (GPS) RWY 33L

APCH CRS 325°	Rwy Idg TDZE Arpt Elev	8352 733 761
-------------------------	------------------------------	---

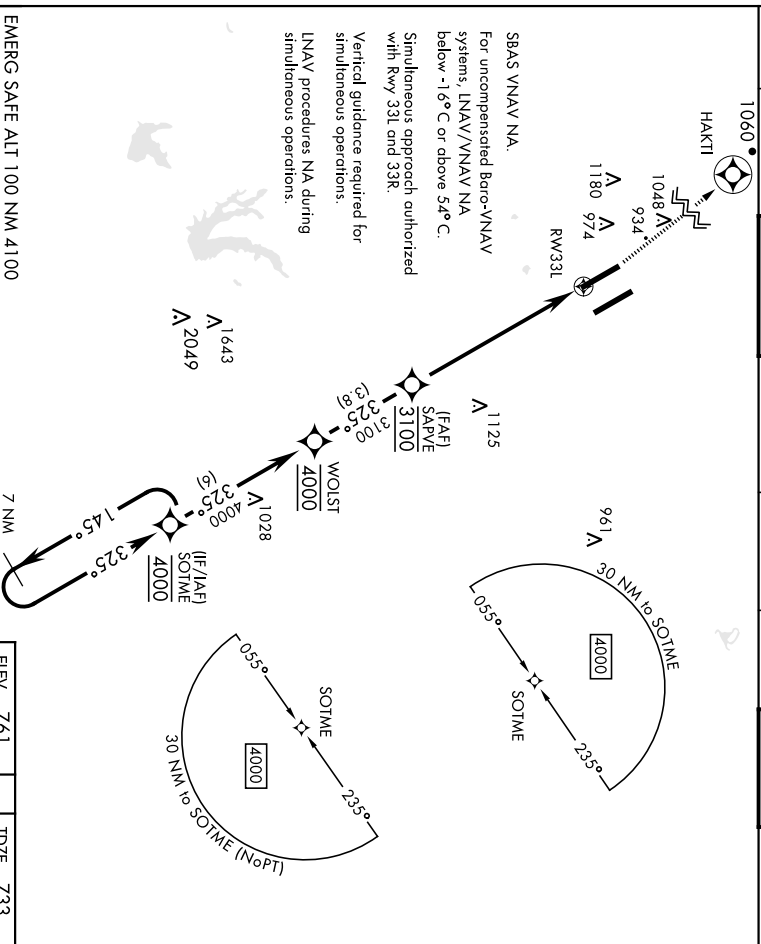
AL-341 [USAF]

RANDOLPH AFB (KRND)

*Circling not authorized NE of Rwy 15R-33L.

MISSED APPROACH: Climbing to 1 200, then climbing left turn to 3000 direct HAKTI. Expect ATC instructions.

ATIS *	SAN ANTONIO APP CON	TOWER *	GND CON	CINC DEL (RWY 15L-38R)	HANGOVER ATIS	HANGOVER TOWER *	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75



EMERG SAFE ALT 00 NM 4100					7 NM		ELEV 761		TDZE 733	
1200	3000	HAFTI			7 NM		AIS Rwy 15L insid len 2100'		HIRT all rwy's	
CATEGORY	A	B	C	D	E					
LNAAV/VNAAV	983/40	250	(300-¾)	992/40	1030/45					
DA				259 (300-¾)	297 (300-¾)					
LNAAV MDA	1180/55	447 (500-1)	1180-1¾	447	(500-1¾)					
C CIRCLING*	1240-1	1280-1	1500-2	1800-3	1039 (1100-3)					
	479 (500-1)	519 (600-1)	739 (800-2)							

UNIVERSAL CITY, TEXAS

29° 32' N-98° 17' W

RANDOLPH AFB (KRND)

[USAF]

RANDOLPH AFB (KRND)

APCH CRS 325°	Rwy Idg TDZE Arpt Elev	8351 733 761
------------------	------------------------------	--------------------

RNP ARCH - GPS ** When AIS inop, increase CAT ABCD RVR to 40, vis to $\frac{3}{4}$ mile; CAT E RVR to 45, vis to $\frac{7}{8}$ mile. ** When AIS inop, increase CAT AB RVR to 55 and vis to 1 mile; CAT CDE vis to $\frac{1}{2}$ miles.	AIS-1  MISSED APPROACH: Climb to 1500 then climbing tight turn to 3000 direct CESU. Expect ATIS instructions.
--	---

- * When ALS inop, increase CAT CAT E RVR to 45, vis to $\frac{7}{8}$ mile
- ** When ALS inop, increase CAT CAT CDE vis to $1\frac{3}{8}$ miles.

CAT CDE vis t

*** When ALS inop, increase CAT
CAT E RVR to 45, vis to 7/8 mile**

ATIS ★	SAN ANTONIO APP CON	
290.525	128.05 318.1	12

•

CESWII



TOWER ★	GND CON	CINCLC DE (RWY 15L-3)
8.25 294.7	119.65 275.8	338.35

*Circling not authorized SW of Rwy 15L-33R.

3R)	HANGOVER ATIS ★ 327.8	HANGOVER TOWER ★ 120.5 291.1	HANGOVER GND CON 124.75 353.75
-----	-----------------------------	------------------------------------	---

***Circling not authorized SW of Rwy 15L-33R.

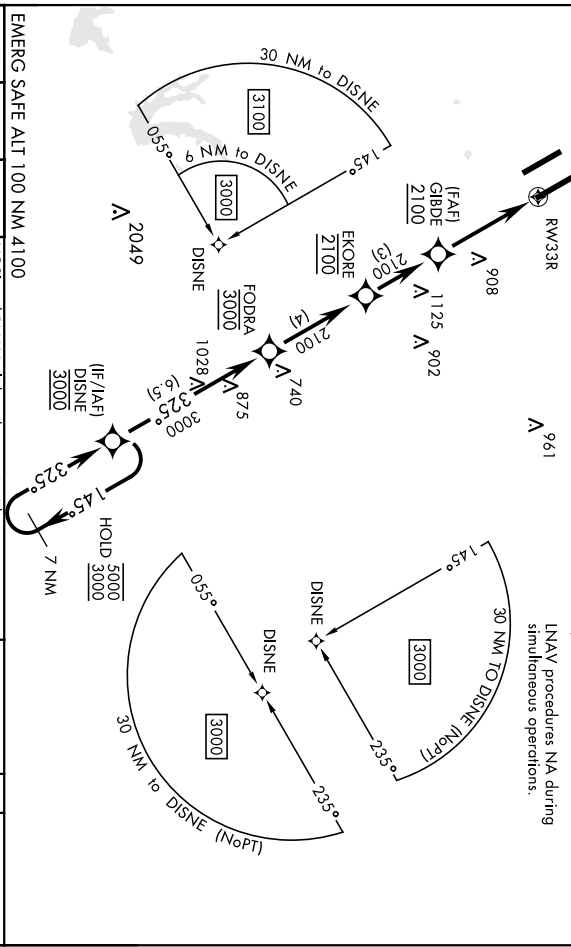
SBAS VNAV NA

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C.

Simultaneous approach authorized with Rwy 33L and 33R.

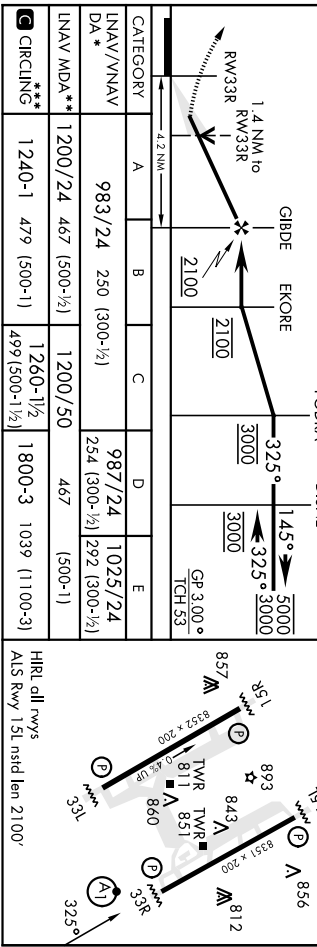
Vertical guidance required for simultaneous operations.

LNAV procedures NA during simultaneous operations.



EMERG SAFE ALT 100 NM 4100

7 NM Holding Pattern DISNE FODRA	ELEV 761	TDZE 733	



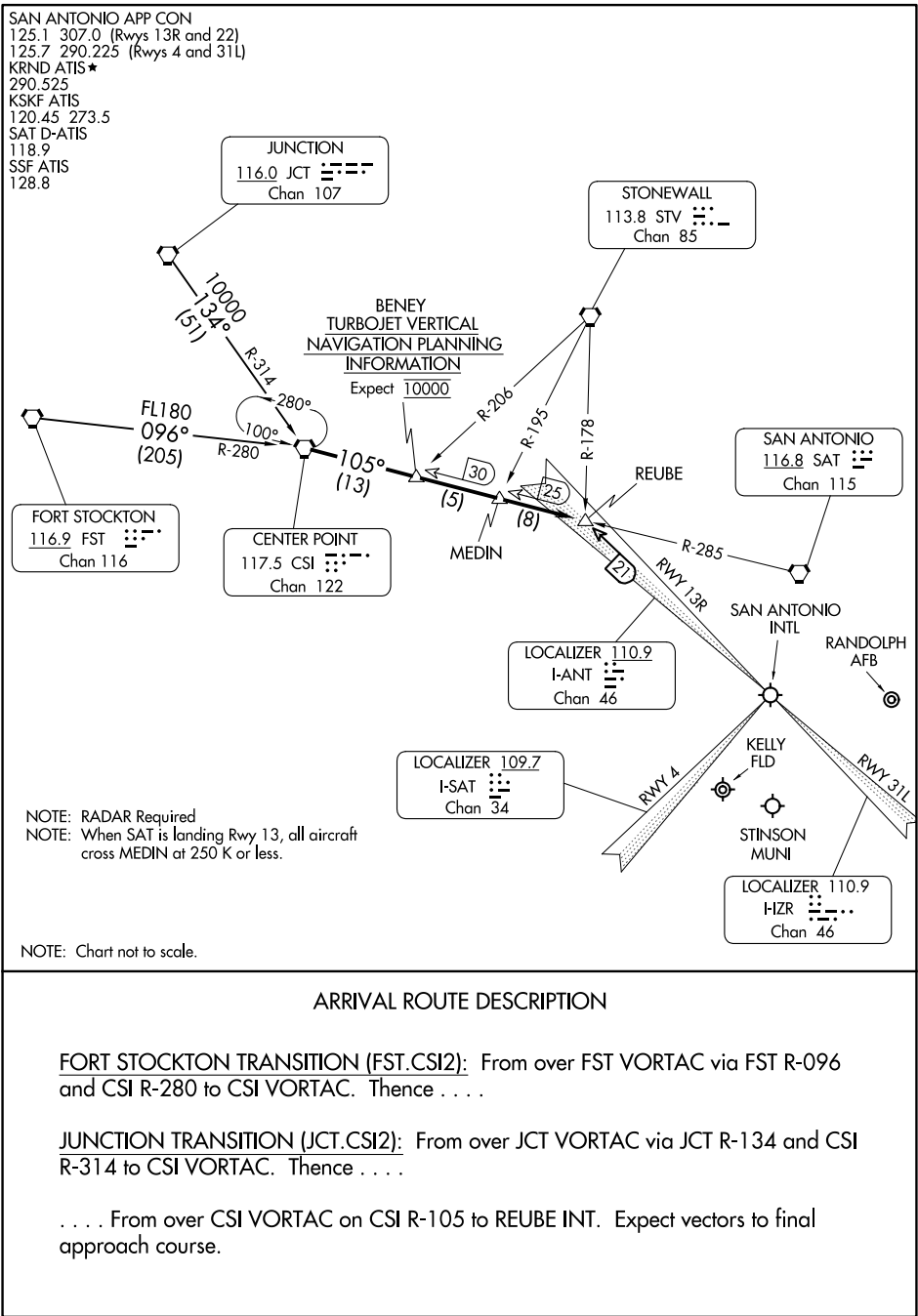
UNIVERSAL CITY, TEXAS

29° 32' N-98° 17' W

RANDOLPH AFB (KRND)

Amdt 5 28DEC23

RNAV (GPS) RWY 33R



(CRVZA.CRVZA1) 25JAN24

CRVZA ONE ARRIVAL (RNAV) Transition Routes

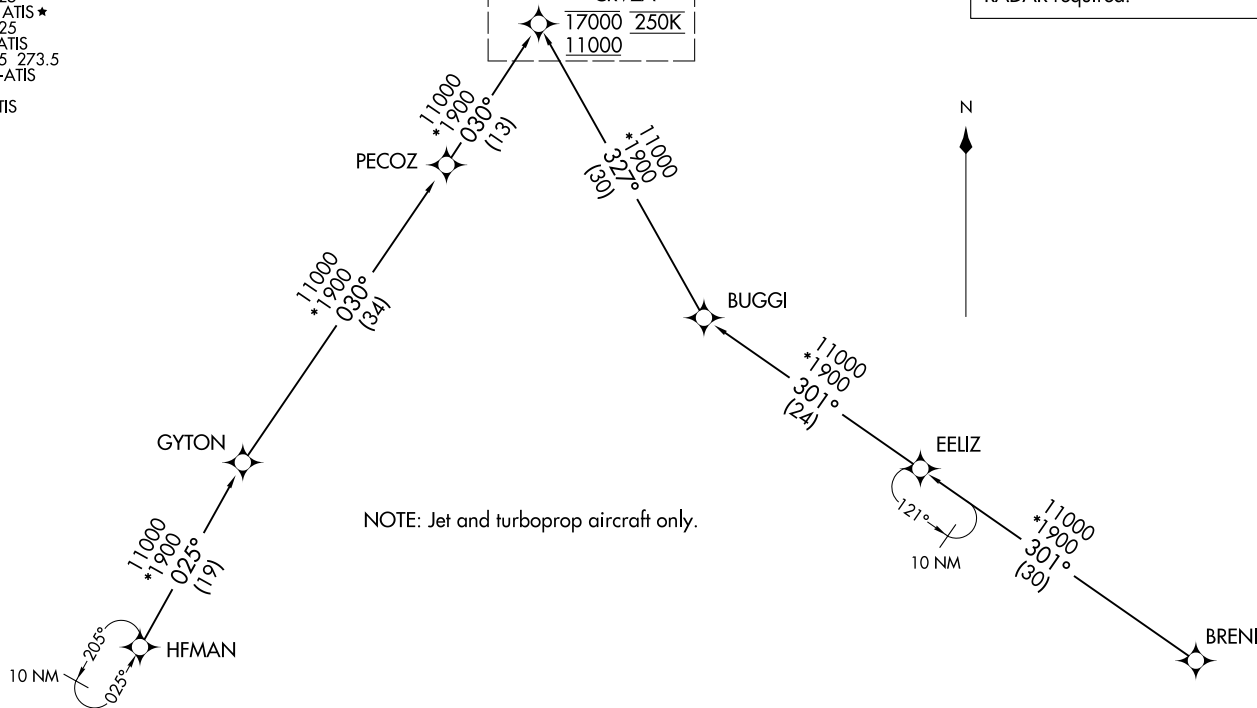
SAN ANTONIO, TEXAS

SAN ANTONIO APP CON
125.7 290.225
BAZ ATIS
119.325
KRND ATIS ★
290.525
KSKF ATIS
120.45 273.5
SAT D-ATIS
118.9
SSF ATIS
128.8

See following page
for Arrival Routes

CRVZA	
17000	250K
11000	

RNAV 1 - DME/DME/IRU or GPS.
RADAR required.



BRENI TRANSITION (BRENI.CRVZA1)
EELIZ TRANSITION (EELIZ.CRVZA1)
HFMAN TRANSITION (HFMAN.CRVZA1)

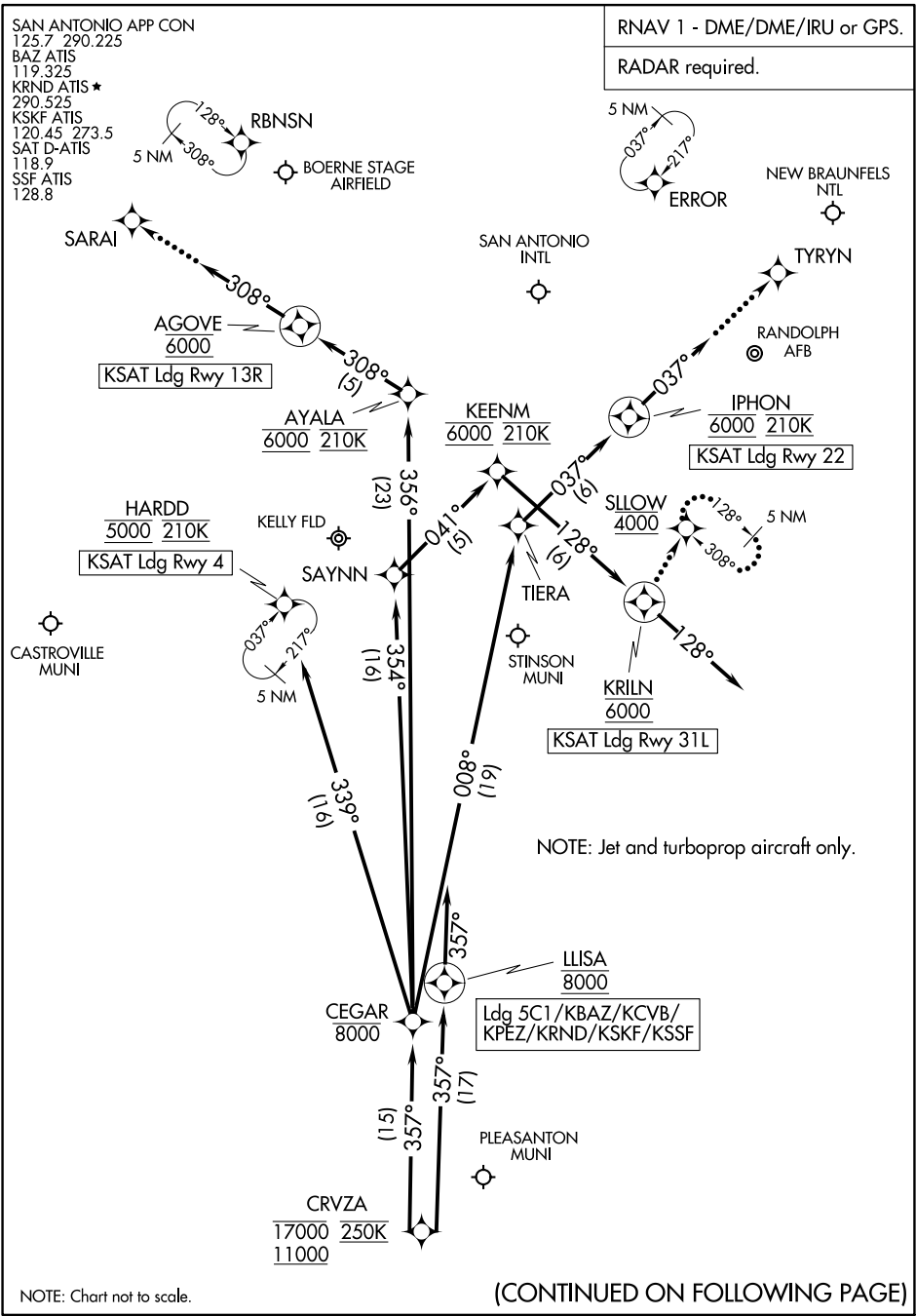
(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

(CRVZA.CRVZA1) 24025

AL-369 (FAA)
Transition Routes

SAN ANTONIO, TEXAS



ARRIVAL ROUTE DESCRIPTION

SAN ANTONIO INTL (KSAT): From CRVZA on track 357° to cross CEGAR at or below 8000.

LANDING KSAT RUNWAY 4: From CEGAR on track 339° to cross HARDD at 5000 and at 210K. Expect ILS or LOC RWY 4 approach.

LANDING KSAT RUNWAY 13R: From CEGAR on track 356° to cross AYALA at 6000 and at 210K, then on track 308° to cross AGOVE at 6000, then on track 308°. Expect RADAR vectors to final approach course.

LANDING KSAT RUNWAY 22: From CEGAR on track 008° to TIERA, then on track 037° to cross IPHON at 6000 and at 210K, then on track 037°. Expect RADAR vectors to final approach course.

LANDING KSAT RUNWAY 31L: From CEGAR on track 354° to SAYNN, then on track 041° to cross KEENM at 6000 and at 210K, then on track 128° to cross KRILN at 6000, then on track 128°. Expect RADAR vectors to final approach course.

LANDING KSKF/KBAZ/KCVB/KSSF/KPEZ/5C1/KRND: From CRVZA on track 357° to cross LLISA at 8000, then on track 357°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

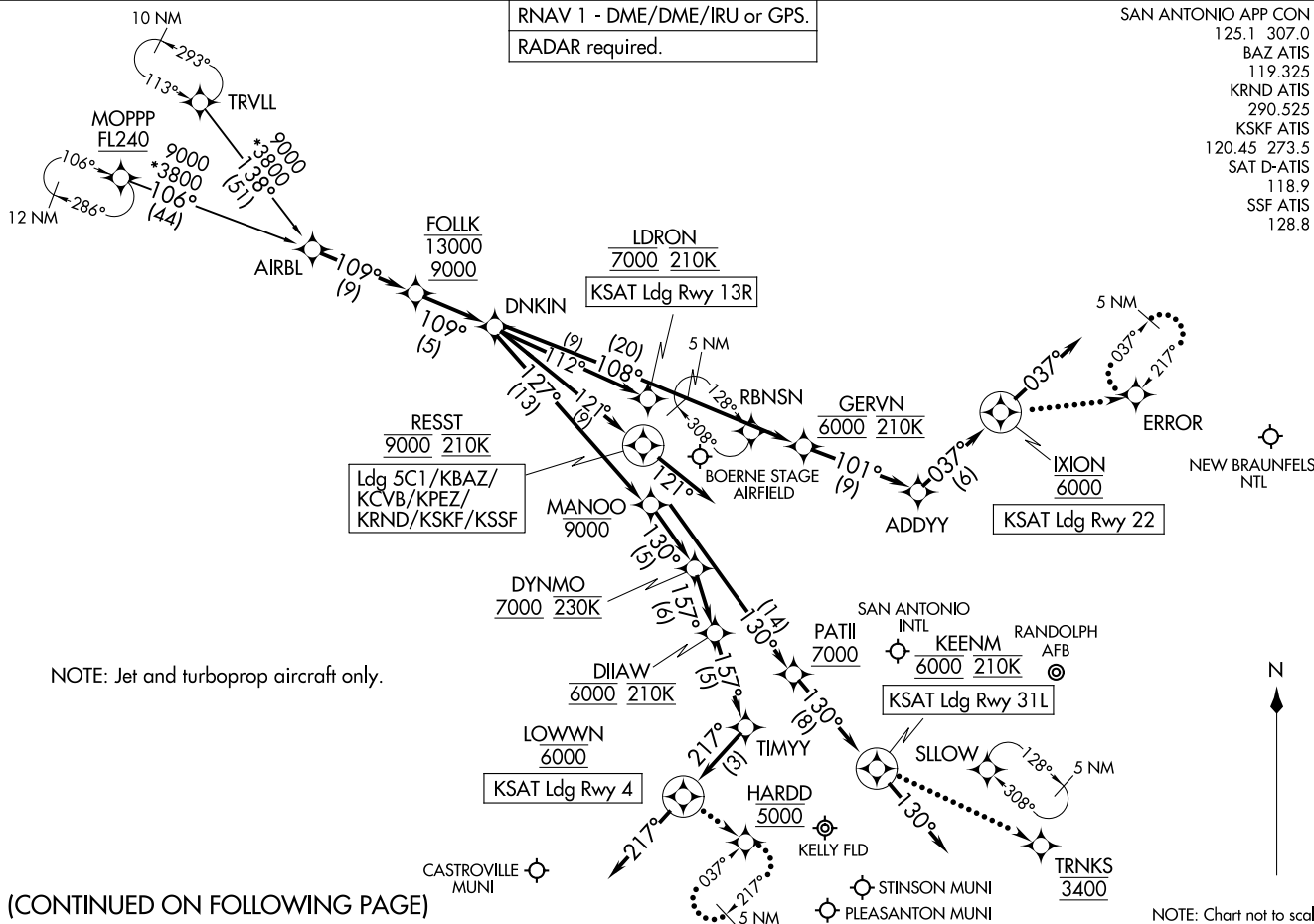
KSAT RUNWAY 13R: After AGOVE proceed to SARAI, then on ILS or LOC RWY 13R or RNAV (GPS) Y RWY 13R approach.

KSAT RUNWAY 22: After IPHON proceed to TYRYN, then on RNAV (GPS) Y RWY 22 approach.

KSAT RUNWAY 31L: After KRILN proceed to SLOW at 4000 and hold.

SAN ANTONIO APP CON
125.1 307.0
BAZ ATIS
119.325
KRND ATIS ★
290.525
KSKF ATIS
120.45 273.5
SAT D-ATIS
118.9
SSF ATIS
128.8

RNAV 1 - DME/DME/IRU or GPS.
RADAR required.



ARRIVAL ROUTE DESCRIPTION

SAN ANTONIO INTL (KSAT):

From AIRBL on track 109° to cross FOLLK between 9000 and 13000, then on track 109° to DNKIN.

LANDING KSAT RUNWAY 4: From DNKIN on track 127° to cross MANOO at or below 9000, then on track 130° to cross DYNMO at or above 7000 and at 230K, then on track 157° to cross DIIAW at 6000 and at 210K, then on track 157° to TIMYY, then on track 217° to cross LOWWN at 6000, then on track 217°. Expect RADAR vectors to final approach course.

LANDING KSAT RUNWAY 13R: From DNKIN on track 112° to cross LDRON at 7000 and at 210K. Expect ILS or LOC Rwy 13R approach.

LANDING KSAT RUNWAY 22: From DNKIN on track 108° to cross GERVN at 6000 and at 210K, then on track 101° to ADDYY, then on track 037° to cross IXION at 6000, then on track 037°. Expect RADAR vectors to final approach course.

LANDING KSAT RUNWAY 31L: From DNKIN on track 127° to cross MANOO at or below 9000, then on track 130° to cross PATII at or above 7000, then on track 130° to cross KEENM at 6000 and at 210K, then on track 130°. Expect RADAR vectors to final approach course.

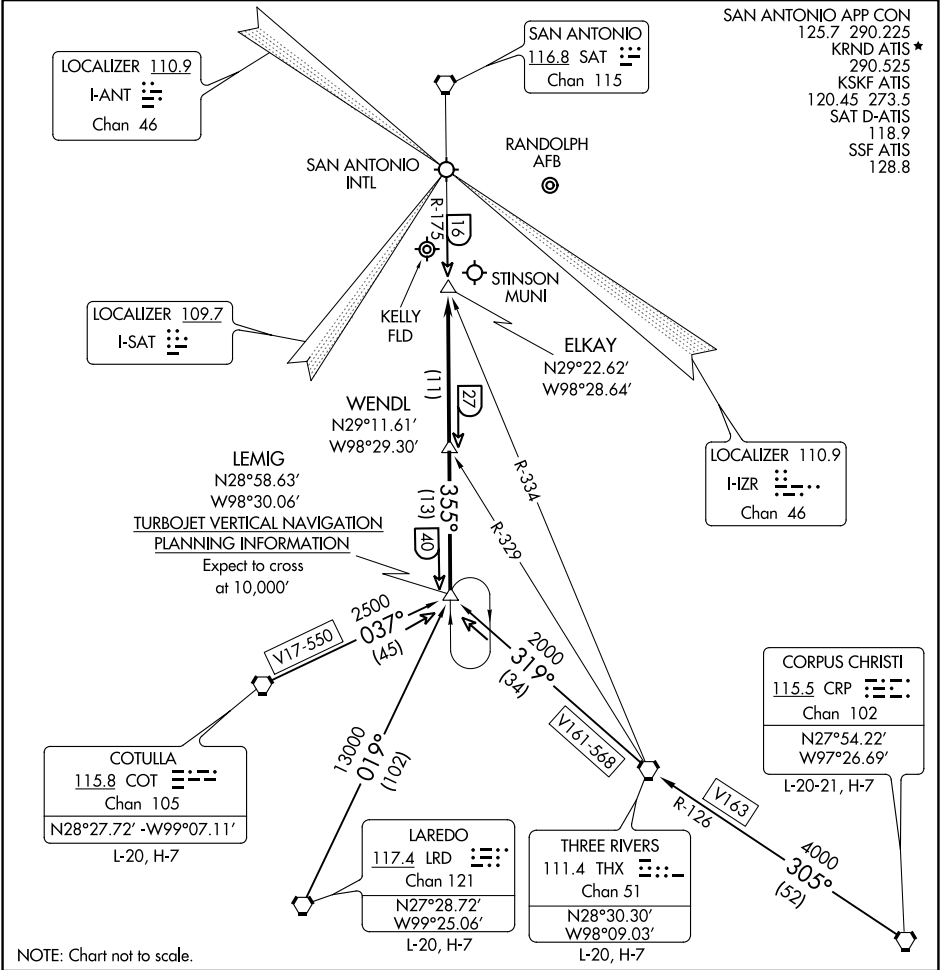
LANDING KSKF, KBAZ, KCVB, KSSF, KPEZ, 5C1, KRND: From AIRBL on track 109° to cross FOLLK between 9000 and 13000, then on track 109° to DNKIN, then on track 121° to cross RESST at 9000 and at 210K, then on track 121°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

RUNWAY 4: After LOWWN, proceed to HARDD at 5000 and hold.

RUNWAY 22: After IXION, proceed direct to ERROR and hold.

RUNWAY 31L: After KEENM proceed to TRNKS at 3400, then on ILS or LOC Rwy 31L or RNAV (GPS) Y Rwy 31L approach.



ARRIVAL ROUTE DESCRIPTION

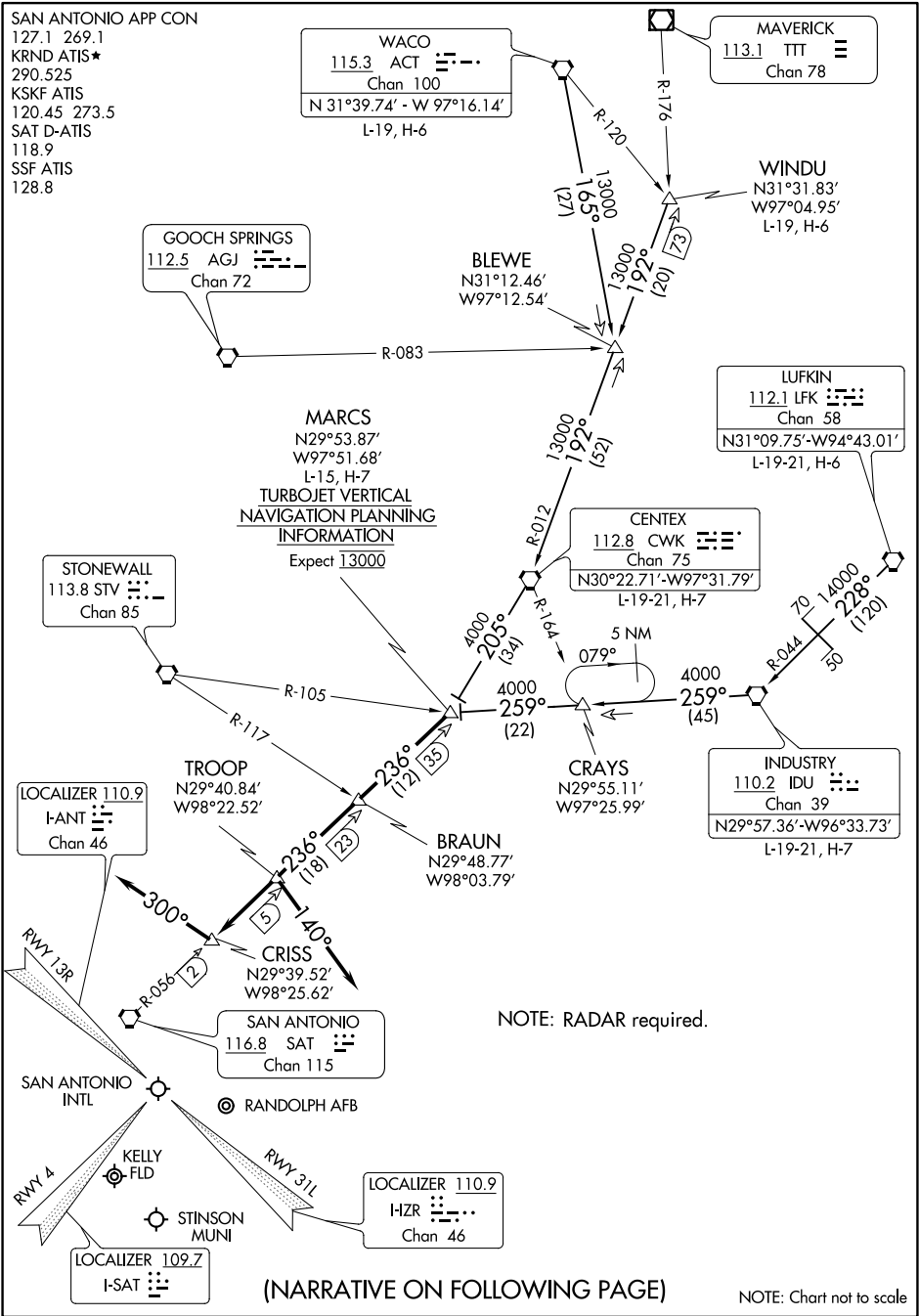
CORPUS CHRISTI TRANSITION (CRP.LEMIG1): From over CRP VORTAC via CRP R-305 and THX R-126 to THX VORTAC, then via THX R-319 to LEMIG INT. Thence

COTULLA TRANSITION (COT.LEMIG1): From over COT VORTAC via COT R-037 to LEMIG INT. Thence

LAREDO TRANSITION (LRD.LEMIG1): From over LRD VORTAC via LRD R-019 to LEMIG INT. Thence

THREE RIVERS TRANSITION (THX.LEMIG1): From over THX VORTAC via THX R-319 to LEMIG INT. Thence

. . . . ALL AIRPORTS: From over LEMIG INT via SAT R-175 to ELKAY INT. Expect radar vectors to final approach course.



ARRIVAL ROUTE DESCRIPTION

CENTEX TRANSITION (CWK.MARCS1): From over CWK VORTAC
via CWK R-205 to MARCS INT. Thence. . . .

INDUSTRY TRANSITION (IDU.MARCS1): From over IDU VORTAC
via IDU R-259 to MARCS INT. Thence. . . .

LUFKIN TRANSITION (LFK.MARCS1): From over LFK VORTAC
via LFK R-228 and IDU R-044 to IDU VORTAC, then via IDU R-259
to MARCS INT. Thence. . . .

WACO TRANSITION (ACT.MARCS1): From over ACT VORTAC
via ACT R-165 to BLEWE INT, then via CWK R-012 to CWK VORTAC,
then via CWK R-205 to MARCS INT. Thence. . . .

WINDU TRANSITION (WINDU.MARCS1): From over WINDU INT
via CWK R-012 to CWK VORTAC, then via CWK R-205 to MARCS INT.
Thence. . . .

. . . . From over MARCS on SAT R-056 to BRAUN, then on SAT R-056 to TROOP.
Thence....

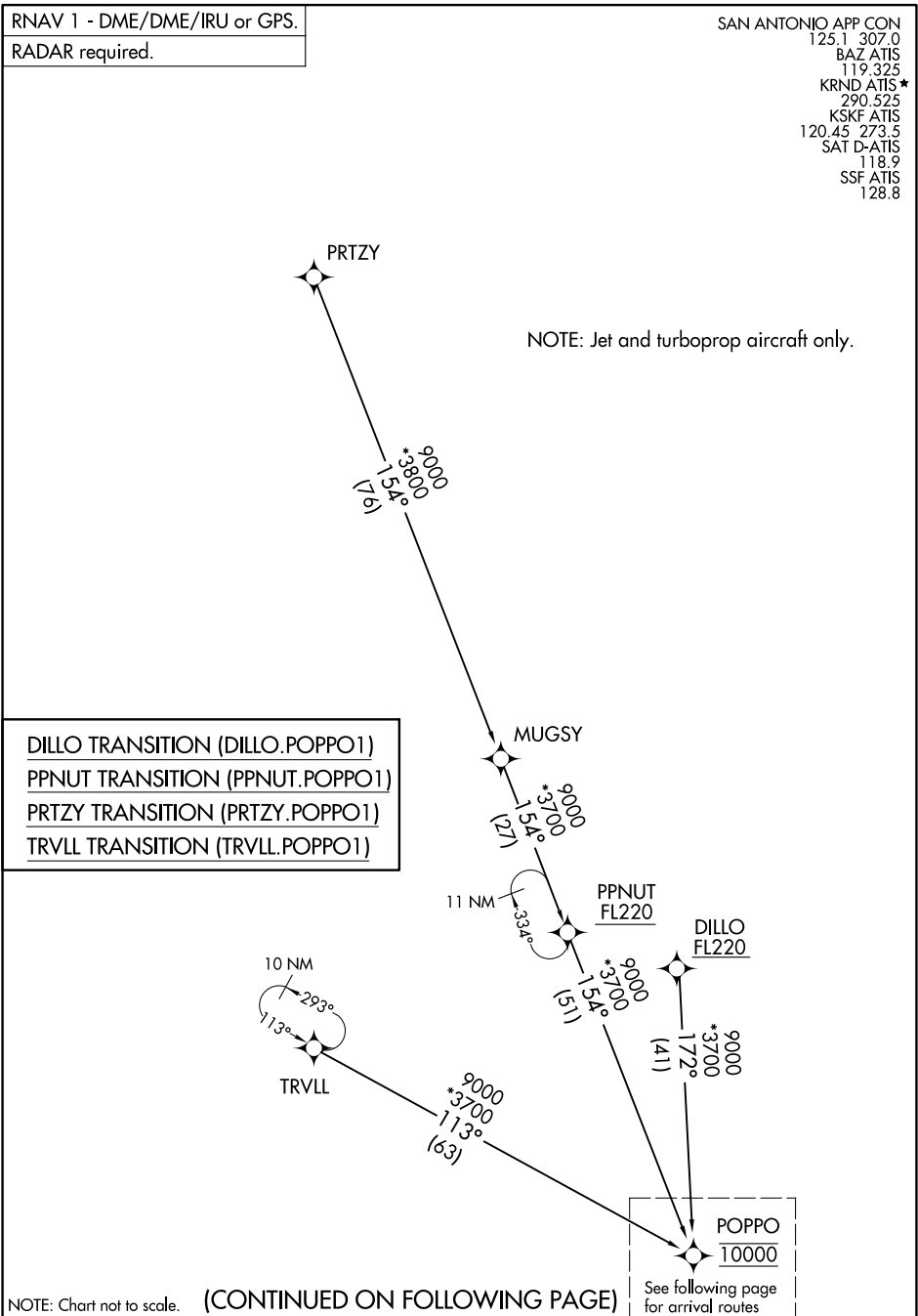
SAN ANTONIO INTL (SAT):

LANDING RWY 13R: On SAT R-056 to CRISS. Depart CRISS heading 300°
for vectors to final approach course.

LANDING RWY 31L: Depart TROOP heading 140° for vectors to
final approach course.

LANDING ALL OTHER RUNWAYS: On SAT R-056 to CRISS. Expect vectors
to final approach course.

ALL OTHER AIRPORTS: On SAT R-056 to CRISS. Expect vectors to final
approach course.



SAN ANTONIO, TEXAS



(CONTINUED ON FOLLOWING PAGE)

ARRIVAL ROUTE DESCRIPTION

SAN ANTONIO INTL (KSAT): From POPPO on track 179° to cross VIICH at or below 9000 and at 250K.

LANDING KSAT RUNWAY 4: From VIICH on track 179° to PRKKR, then on track 157° to cross DYNMO at or above 7000 and at 230K, then on track 157° to cross DIIAW at 6000 and at 210K, then on track 157° to TIMYY, then on track 217° to cross LOWWN at 6000 and at 210K, then on track 217°. Expect RADAR vectors to final approach course.

LANDING KSAT RUNWAY 13R: From VIICH on track 172° to cross SWUPZ at 7000 and at 210K. Expect ILS or LOC RWY 13R approach.

LANDING KSAT RUNWAY 22: From VIICH on track 150° to cross GERVN at 6000 and at 210K, then on track 101° to ADDYY, then on track 037° to cross IXION at 6000 and at 210K, then on track 037°. Expect RADAR vectors to final approach course.

LANDING KSAT RUNWAY 31L: From VIICH on track 179° to PRKKR, then on track 153° to cross BEKKK at or above 8000, then on track 130° to cross PATII at or above 7000, then on track 130° to cross KEENM at 6000 and at 210K, then on track 130°. Expect RADAR vectors to final approach course.

LANDING KSKF/KBAZ/KCVB/KSSF/KPEZ/5C1/KRND: From POPPO on track 179° to cross VIICH at or below 9000 and at 250K, then on track 179° to cross GAYMS at 9000, then on track 179°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

KSAT RUNWAY 4: After LOWWN proceed to HARDD at 5000 and hold.

KSAT RUNWAY 22: After IXION proceed to ERROR and hold.

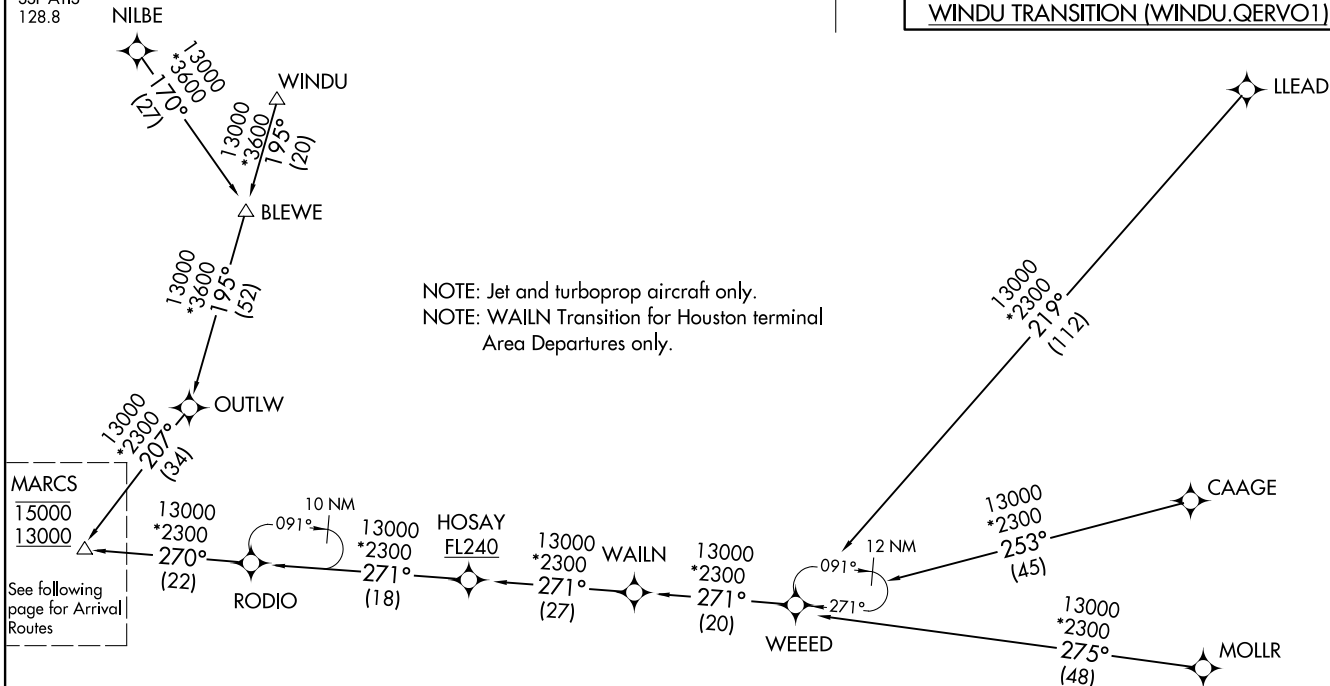
KSAT RUNWAY 31L: After KEENM proceed to TRNKS at 3400, then on ILS or LOC Rwy 31L or RNAV (GPS) Y Rwy 31L approach.

N

BLEWE TRANSITION (BLEWE.QERVO1)
CAAGE TRANSITION (CAAGE.QERVO1)
LLEAD TRANSITION (LLEAD.QERVO1)
MOLLR TRANSITION (MOLLR.QERVO1)
NILBE TRANSITION (NILBE.QERVO1)
WAILN TRANSITION (WAILN.QERVO1)
WINDU TRANSITION (WINDU.QERVO1)

SAN ANTONIO APP CON
127.1 269.1
BAZ ATIS
119.325
KRND ATIS★
290.525
KSKF ATIS
120.45 273.5
SAT D-ATIS
118.9
SSF ATIS
128.8 NILBE

NOTE: Jet and turboprop aircraft only.
NOTE: WAILN Transition for Houston terminal
Area Departures only.



NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

(MARCS.QERV01) 24025 AL-369 (FAA)
QERVO ONE ARRIVAL (RNAV) Transition Routes

SAN ANTONIO, TEXAS

QERVO ONE ARRIVAL (RNAV) Transition Routes

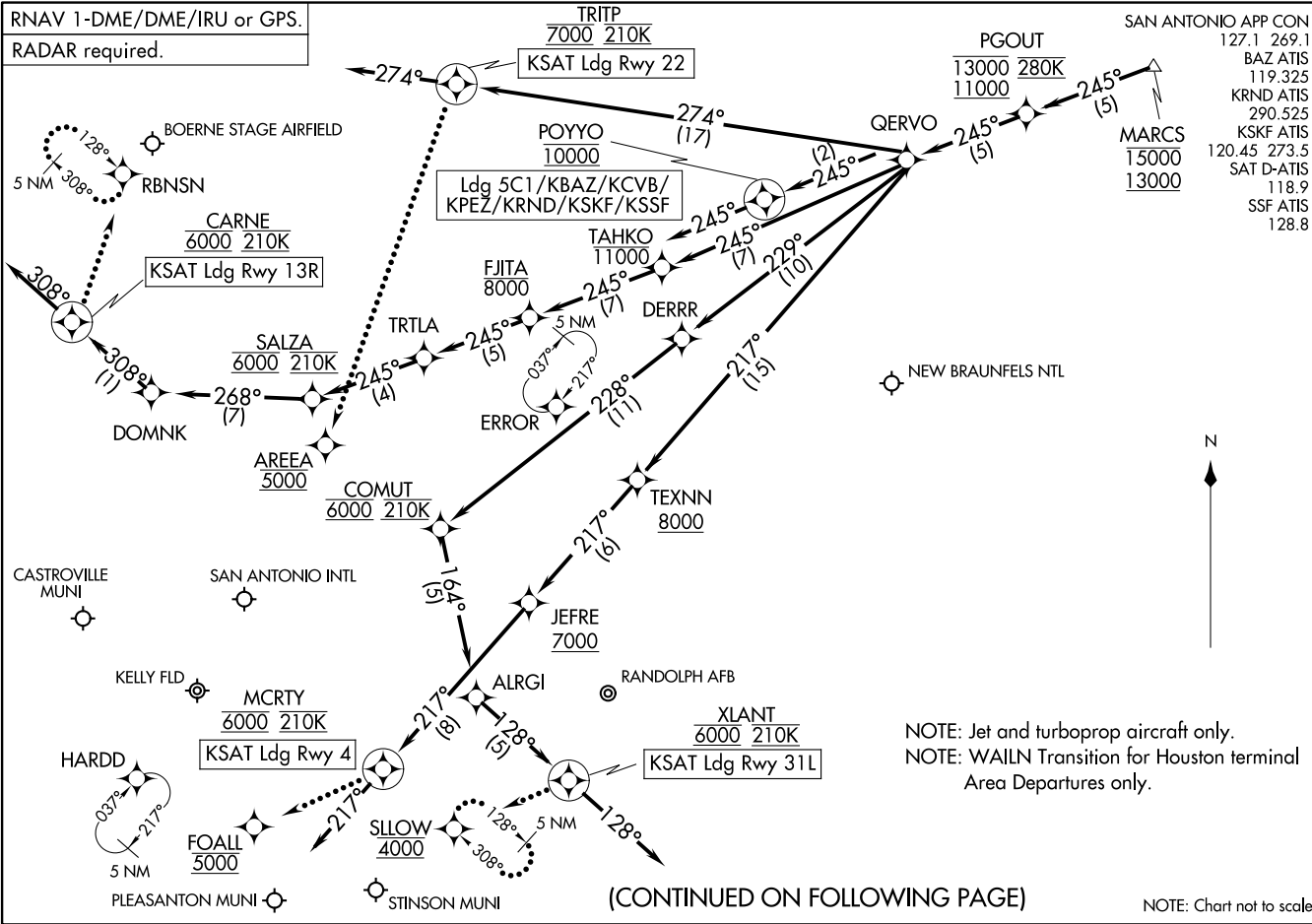
SAN ANTONIO, TEXAS

25 JAN 24

(RNAV) Arrival Routes

SAN ANTONIO, TEXAS

RNAV 1-DME/DME/IRU or GPS.
RADAR required.



KIYA

(RNAV) Arrival Routes

SAN ANTONIO, TEXAS

24025

AL-369 (FAA)

ARRIVAL ROUTE DESCRIPTION

SAN ANTONIO INTL (KSAT): From MARCS on track 245° to cross PGOUT between 11000 and 13000 and at 280K, then on track 245° to QERVO.

LANDING KSAT RUNWAY 4: From QERVO on track 217° to cross TEXNN at or above 8000, then on track 217° to cross JEFRE at or above 7000, then on track 217° to cross MCRTY at 6000 and at 210K, then on track 217°. Expect RADAR vectors to final approach course.

LANDING KSAT RUNWAY 13R: From QERVO on track 245° to cross TAHKO at or below 11000, then on track 245° to cross FJITA at or below 8000, then on track 245° to TRTLA, then on track 246° to cross SALZA at 6000 and at 210K, then on track 268° to DOMNK, then on track 308° to cross CARNE at 6000 and at 210K, then on track 308°. Expect RADAR vectors to final approach course.

LANDING KSAT RUNWAY 22: From QERVO on track 274° to cross TRITP at 7000 and at 210K, then on track 274°. Expect RADAR vectors to final approach course.

LANDING KSAT RUNWAY 31L: From QERVO on track 229° to DERRR, then on track 228° to cross COMUT at 6000 and at 210K, then on track 164° to ALRGI, then on track 128° to cross XLANT at 6000 and at 210K, then on track 128°. Expect RADAR vectors to final approach course.

LANDING KSKF/KBAZ/KCVB/KSSF/KPEZ/5C1/KRND: From MARCS on track 245° to cross PGOUT between 11000 and 13000 and at 280K, then on track 245° to QERVO, then on track 245° to cross POYYO at 10000, then on track 245°. Expect RADAR vectors to final approach course.

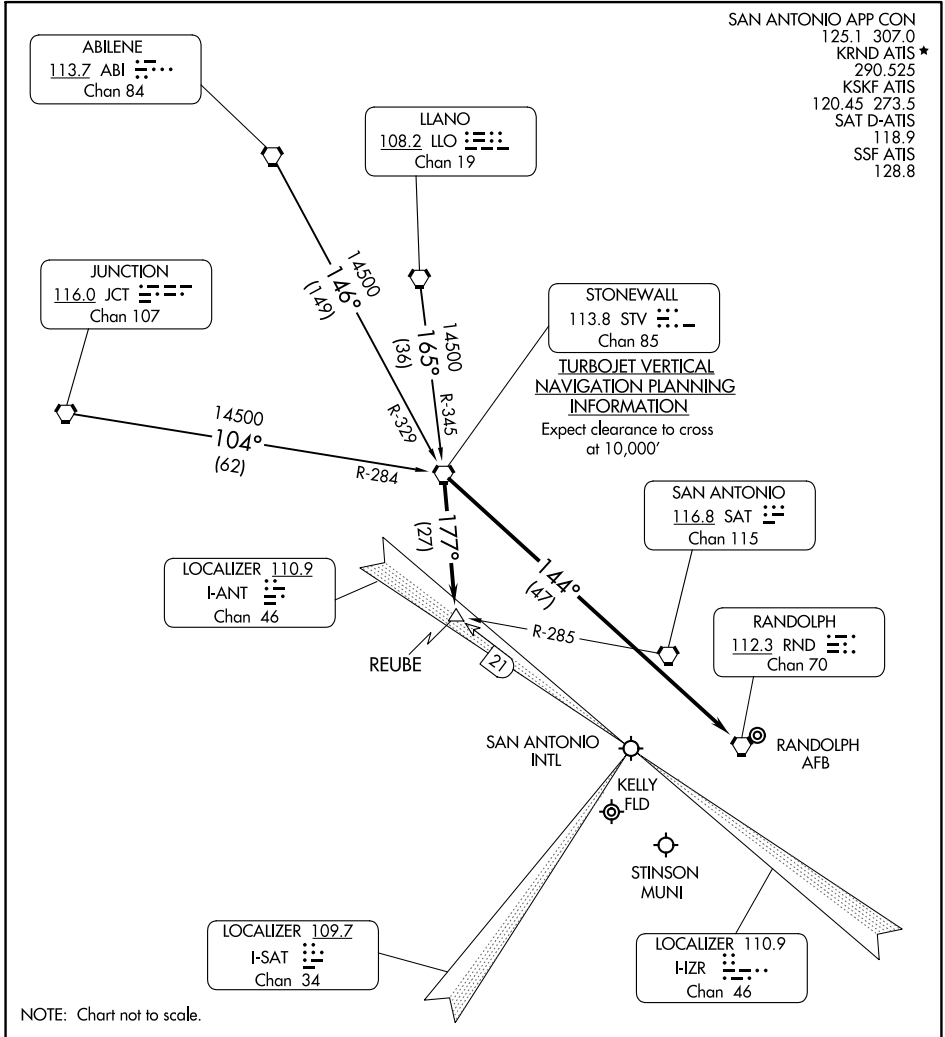
LOST COMMUNICATIONS:

KSAT RUNWAY 4: After MCRTY, proceed to FOALL at 5000, then on ILS or LOC RWY 4 or RNAV (GPS) Y RWY 4 approach.

KSAT RUNWAY 13R: After CARNE, proceed to RBNSN and hold.

KSAT RUNWAY 22: After TRITP proceed to AREEA at 5000, then on RNAV (GPS) Y RWY 22 approach.

KSAT RUNWAY 31L: After XLANT, proceed to SLOW at 4000 and hold.



ARRIVAL ROUTE DESCRIPTION

ABILENE TRANSITION (ABI.STV1): From over ABI VORTAC via ABI R-146 and STV R-329 to STV VORTAC. Thence

JUNCTION TRANSITION (JCT.STV1): From over JCT VORTAC via JCT R-104 and STV R-284 to STV VORTAC. Thence

LLANO TRANSITION (LLO.STV1): From over LLO VORTAC via LLO R-165 and STV R-345 to STV VORTAC. Thence

ALL AIRPORTS EXCEPT RANDOLPH AIR FORCE BASE: From over STV VORTAC via STV R-177 to REUBE INT. Expect radar vectors to final approach course.

RANDOLPH AIR FORCE BASE: From over STV VORTAC via direct RND VORTAC.