

GRAND FORKS, NORTH DAKOTA

ILS or LOC Rwy 18

GRAND FORKS AFB (KRDR)

LOC I-AVA	APCH CRS	Rwy Idg	TDZE
111.3	177°	900	911

AL-5010 [USAF]

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 and vis to 1 mile; CAT CDE vis to 1 ½ miles.

MISSED APPROACH: Climb to 3000 on RDR TACAN R-182 to DUMBE and hold.

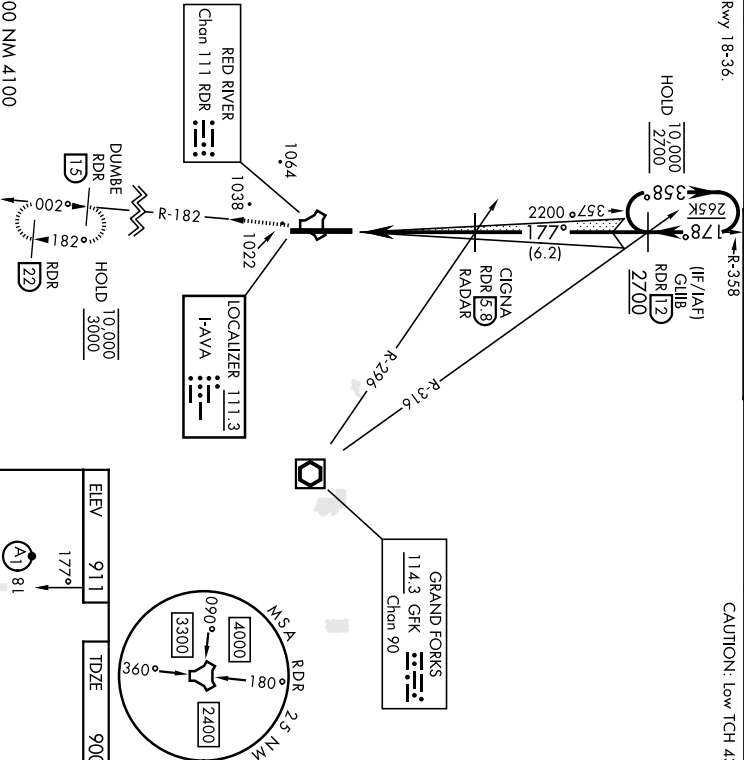


ATIS	APP CON	RED RIVER TOWER
273.45	118.1 318.1	124.9 349.0

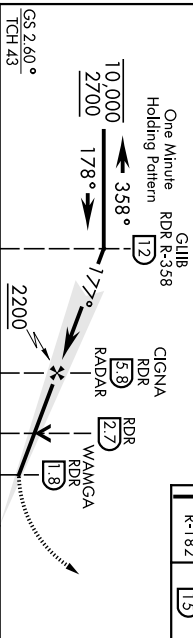
GND CON	CINC DEL
119.15 275.8	119.15 360.7

***Circling NA E of Rwy 18-36.

CAUTION: Low TCH 43



• 1339
EMERG SAFE ALT 100 NM 4100
VGSI and ILS glidepath not coincident
(VGSI Angle 2.60/TCH 48).



CATEGORY	A	B	C	D	E
S-ILS 18*	1100/24	200	[200-½]		
S-LOC 18**	1340/24 440 (500-½)	1340/40 440 (500-¾)			
CIRCLING***	1340-1 429 (500-1) 1380-1 469 (500-1) 1380-1 ½ 629 (700-2) 1540-2 649 (700-2 ¼) 1560-2 ¼				

HIRL Rwy 18-36					
FAF to MAP 4.1 NM					
Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22

GRAND FORKS, NORTH DAKOTA
Orig 02NOV23

GRAND FORKS AFB (KRDR)

ILS or LOC Rwy 18

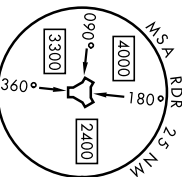
GRAND FORKS AFB (KRDR)

AL-5010 [USAF]

MISSED APPROACH: Climb to 3000 on RDR TACAN R-356 to FRISK and hold.

CAUTION: Low TCH 42

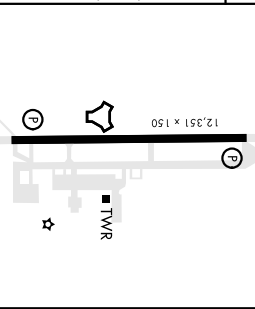
***Circling not authorized
E of Rwy 18-36.



● 1348

EMERG SAFE ALT 100 NM 4100

Figure 1 is a schematic diagram of the experimental setup. It shows a participant (P) seated at a table, looking through a viewing device at a target (A1). The distance from the participant's eye to the target is 81 cm. The viewing device is 12.351 x 1.50 cm in size. The target is 911 cm high. The viewing device is 911 cm high. The target is 911 cm high.



FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

GRAND FORKS, NORTH DAKOTA

47°58'N-97°24'W

GRAND FORKS AFB (KRDR)

Orig 02NOV23

ILS or LOC RWY 36

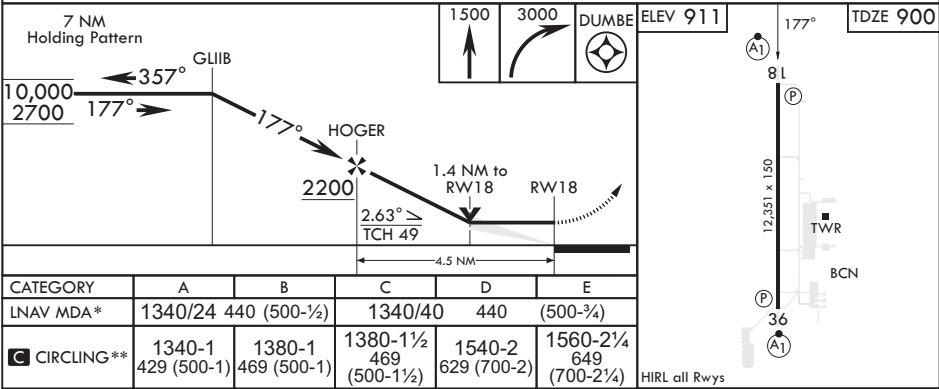
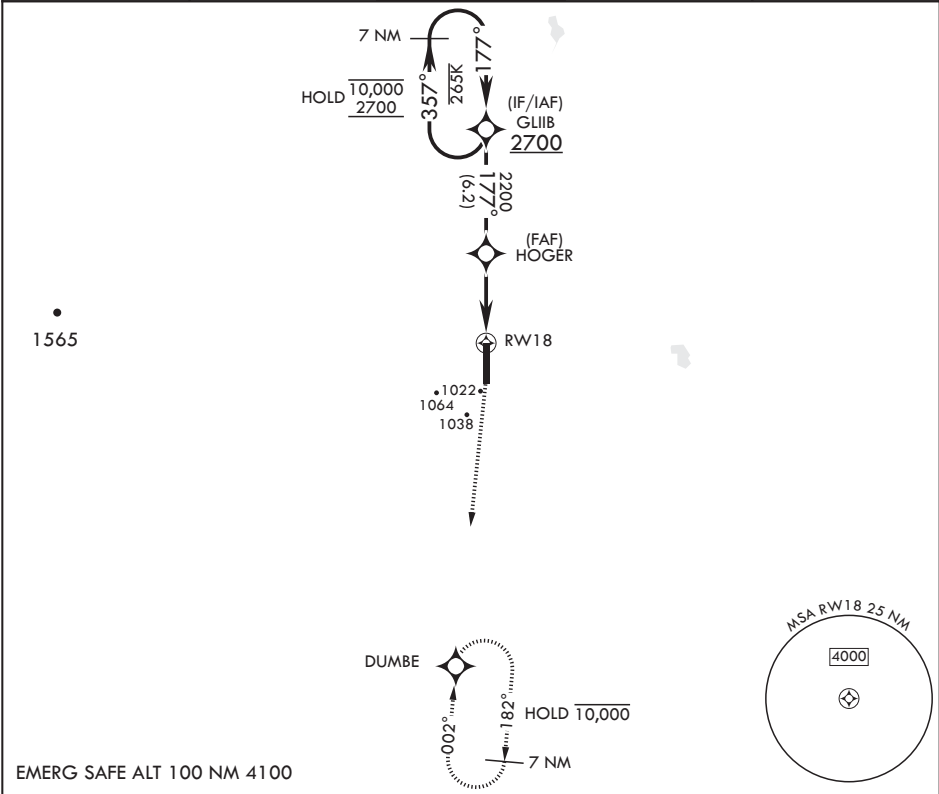
APCH CRS	Rwy Idg	12,351
177°	TDZE	900
	Arprt Elev	911

AL-5010 (USAF)

GRAND FORKS AFB (KRDR)

RNP APCH-GPS	ALSF-1	MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct DUMBE and hold.
* When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE vis to 1 1/4 miles. ** Circling E of Rwy 18-36 not authorized.		

ATIS 273.45	APP CON 118.1 318.1	RED RIVER TOWER 124.9 349.0	GND CON 119.15 275.8	CLNC DEL 119.15 360.7
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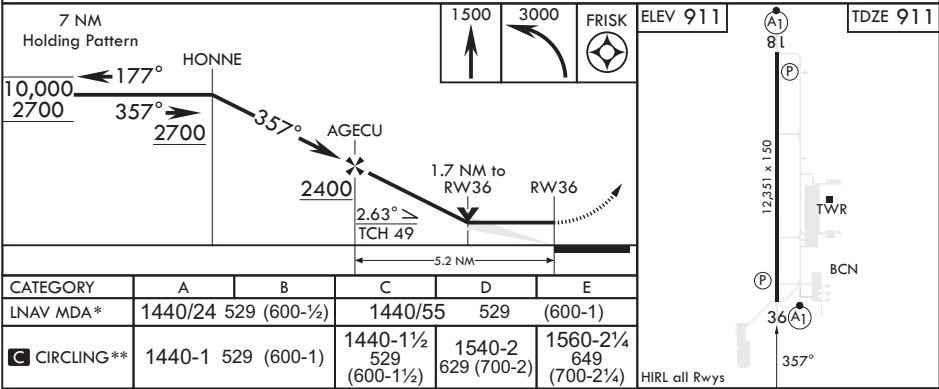
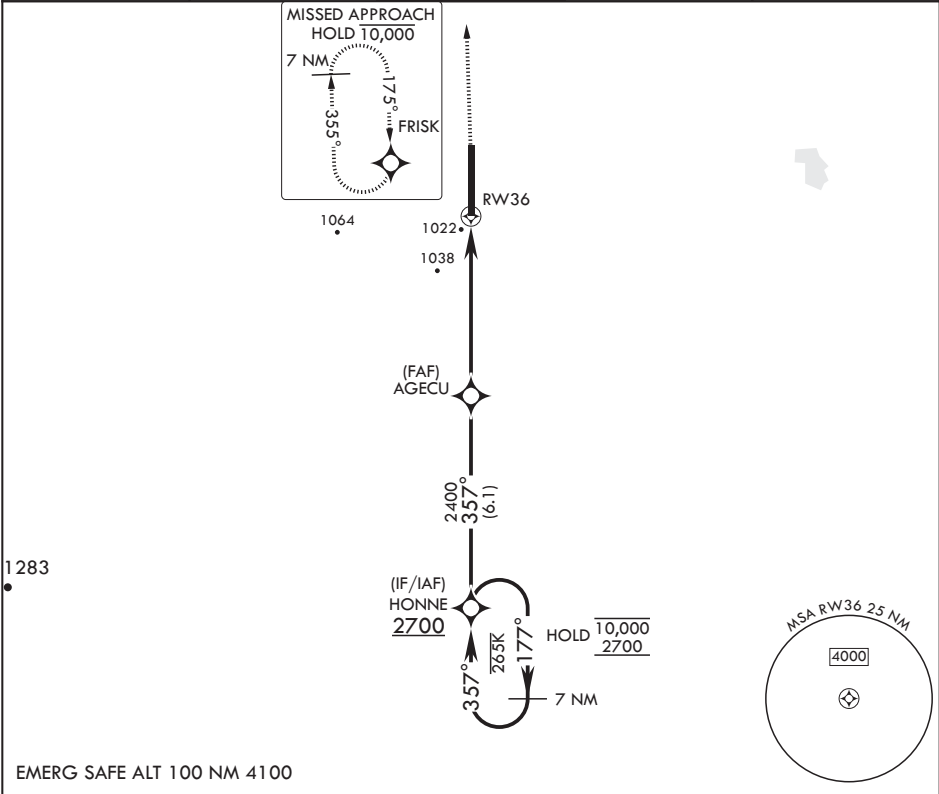
APCH CRS	Rwy Idg	12,351
357°	TDZE	911
	Arprt Elev	911

AL-5010 (USAF)

GRAND FORKS AFB (KRDR)

RNP APCH-GPS	ALSF-1	MISSED APPROACH: Climb to 1500 then climbing left turn to 3000 direct FRISK and hold.
* When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE vis to 1 1/2 miles. ** Circling E of Rwy 18-36 not authorized.		

ATIS 273.45	APP CON 118.1 318.1	RED RIVER TOWER 124.9 349.0	GND CON 119.15 275.8	CLNC DEL 119.15 360.7
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TACAN RWY 18

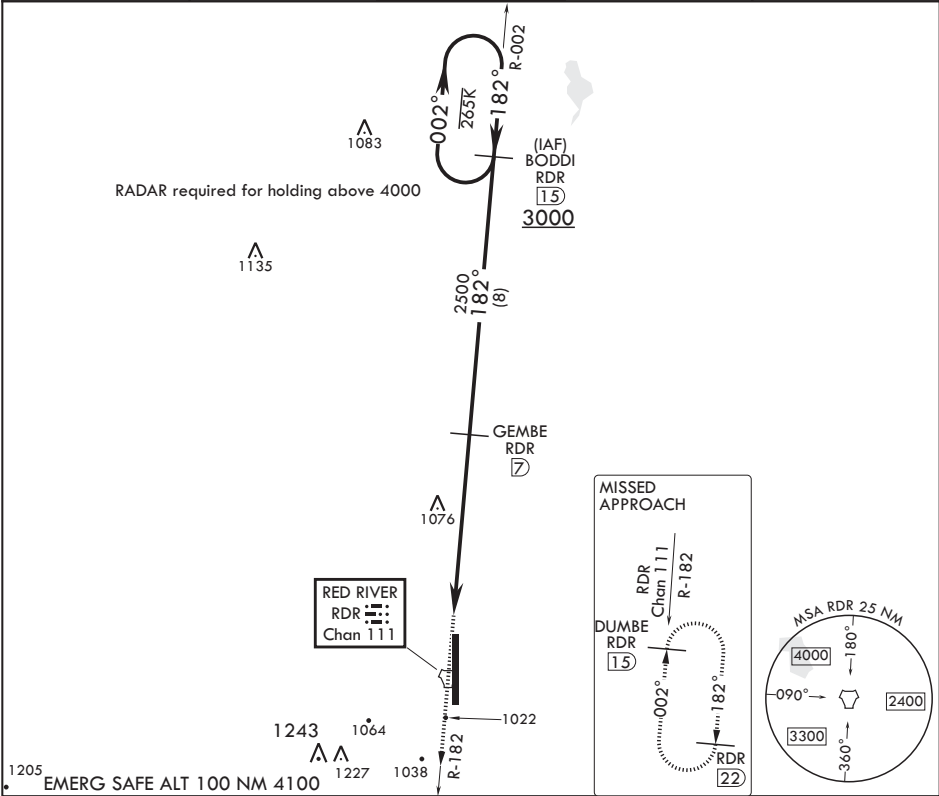
TACAN RDR Chan 111	APCH CRS 182°	Rwy ldg TDZE Arpt Elev	12,351 900 911
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AL-5010 (USAF)

GRAND FORKS AFB (KRDR)

* When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE vis to 1 1/4 miles. ** Circling E of Rwy 18-36 not authorized.	ALSF-1 	MISSED APPROACH: Climb to 3000 on RDR TACAN R-182 to DUMBE and hold.
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ATIS 273.45	APP CON 118.1 318.1	RED RIVER TOWER 124.9 349.0	GND CON 119.15 275.8	CLNC DEL 119.15 360.7
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3000 RDR R-182	DUMBE RDR 15	BODDI 15	GEMBE 7	PAROC 1.8	TACAN
One Minute Holding Pattern					
ELEV 911					
TDZE 900					
182°					
8L					
12,351 x 150					
P					
TWR 1029					
BCN					
36					
A1					
HIRL all Rwys					
CATEGORY	A	B	C	D	E
S-18*	1340/24 440 (500-½)	1340/40 440 (500-¾)	1340-1½ 469 (500-1½)	1540-2 629 (700-2)	1560-2¼ 649 (700-2¼)
CIRCLING**	1340-1 429 (500-1)	1380-1 469 (500-1)	1380-1½ 469 (500-1½)	1540-2 629 (700-2)	1560-2¼ 649 (700-2¼)

TACAN RWY 18

NC-1, 22 FEB 2024 to 21 MAR 2024

NC-1, 22 FEB 2024 to 21 MAR 2024

TACAN RWY 36

TACAN RDR Chan 111	APCH CRS 351°	Rwy ldg 12,351 TDZE 911 Arpt Elev 911
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AL-5010 (USAF)

GRAND FORKS AFB (KRDR)

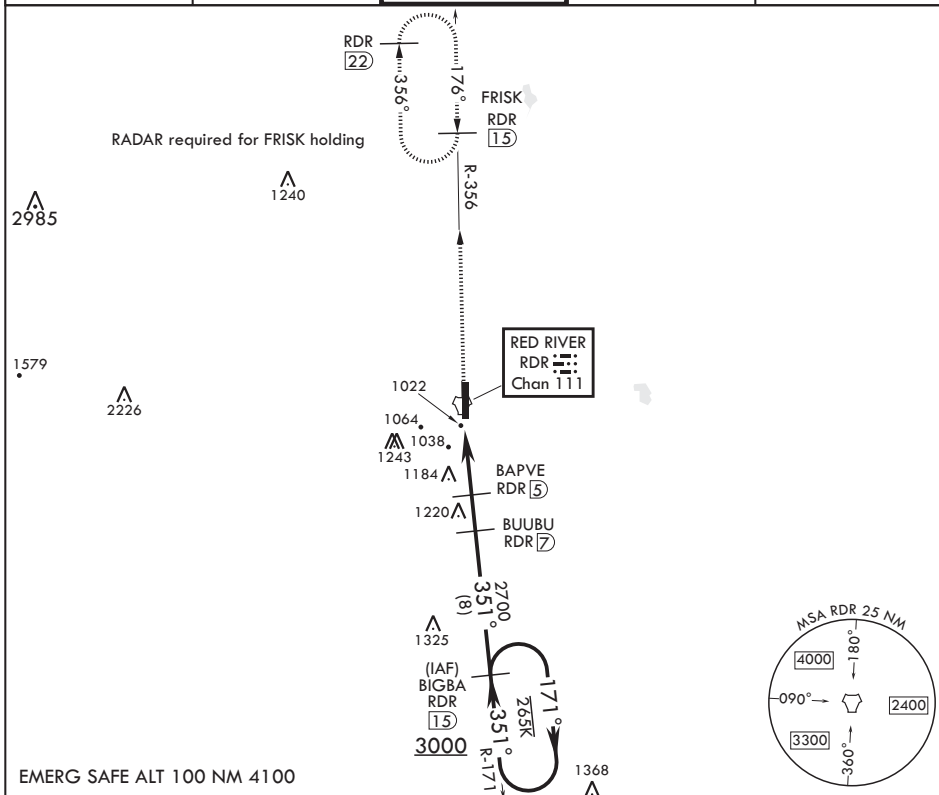
* When ALS inop, increase CAT AB RVR to 55, vis to 1 mile, CAT CDE vis to 1 1/2 miles.

ALSF-1

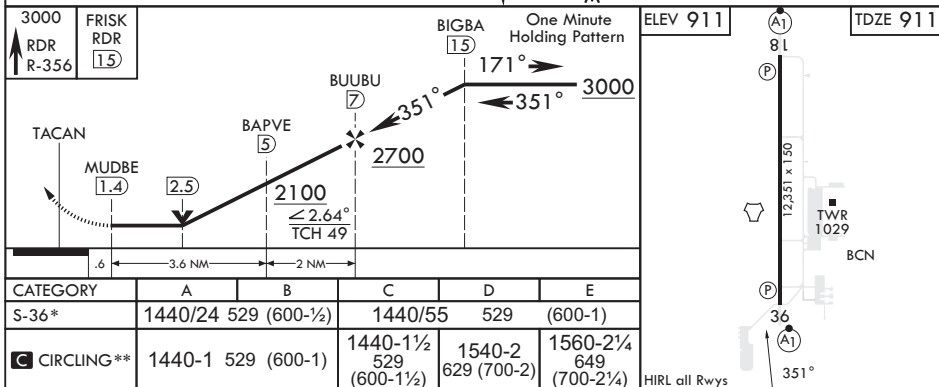
MISSED APPROACH: Climb to 3000 on RDR TACAN R-356 to FRISK and hold.

** Circling E of Rwy 18-36 not authorized.

ATIS 273.45	APP CON 118.1 318.1	RED RIVER TOWER 124.9 349.0	GND CON 119.15 275.8	CLNC DEL 119.15 360.7
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EMERG SAFE ALT 100 NM 4100



GRAND FORKS, NORTH DAKOTA

47°58'N - 97°24'W

GRAND FORKS AFB (KRDR)

Orig 10AUG23

TACAN RWY 36

NC-1, 22 FEB 2024 to 21 MAR 2024

NC-1, 22 FEB 2024 to 21 MAR 2024