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Airport Information For UMMG

Terminal Charts For UMMG

Revision Letter For Cycle 17-2013

Change Notices

Notebook

General Information

Location: Hrodna Blr
IATA Code: GNA
Lat/Long: N53° 36.1' E024° 03.2'
Elevation: 443 ft

Airport Use: Public
Magnetic Variation: 6.2°E

Fuel Types: Jet A-1
Repair Types: Minor Airframe, Minor Engine
Customs: Yes
Airport Type: IFR
Landing Fee: Yes
Control Tower: Yes
Jet Start Unit: No
LLWS Alert: No
Beacon: No

Sunrise: 0321 Z
Sunset: 1730 Z,

Runway Information

Runway: 08
Length x Width: 2185 ft x 92 ft
Surface Type: asphalt
TDZ-Elev: 443 ft

Runway: 17
Length x Width: 8399 ft x 138 ft
Surface Type: concrete
TDZ-Elev: 443 ft
Lighting: Edge, ALS

Runway: 26
Length x Width: 2185 ft x 92 ft
Surface Type: asphalt
TDZ-Elev: 443 ft

Runway: 35
Length x Width: 8399 ft x 138 ft
Surface Type: concrete
TDZ-Elev: 430 ft
Lighting: Edge, ALS

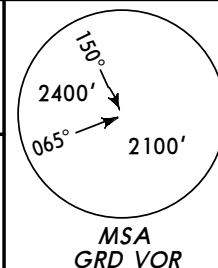
Communication Information

ATIS 135.025
ATIS 126.175 Non-English
Hrodna Tower 134.5

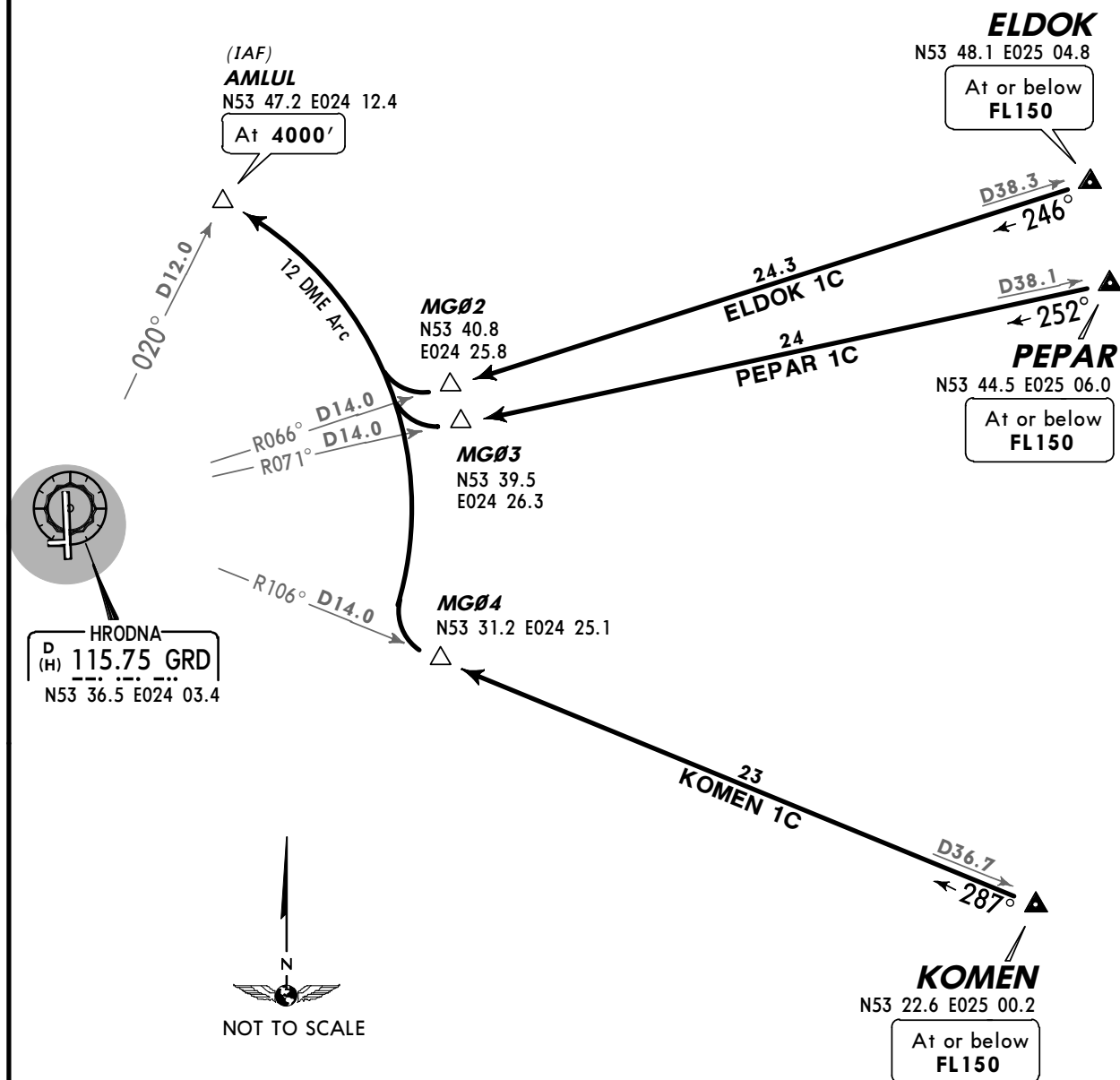
*ATIS
135.02
(Russian 126.17)

Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



ELDOK ONE CHARLIE (ELDOK 1C)
KOMEN ONE CHARLIE (KOMEN 1C)
PEPAR ONE CHARLIE (PEPAR 1C)
RWY 17 ARRIVALS
VOR DME REQUIRED

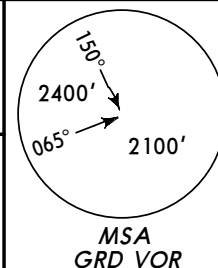


STAR	ROUTING
ELDOK 1C	Intercept GRD R-066 inbound to MG02, turn RIGHT, along GRD 12 DME arc to AMLUL.
KOMEN 1C	Intercept GRD R-106 inbound to MG04, turn RIGHT, along GRD 12 DME arc to AMLUL.
PEPAR 1C	Intercept GRD R-071 inbound to MG03, turn RIGHT, along GRD 12 DME arc to AMLUL.

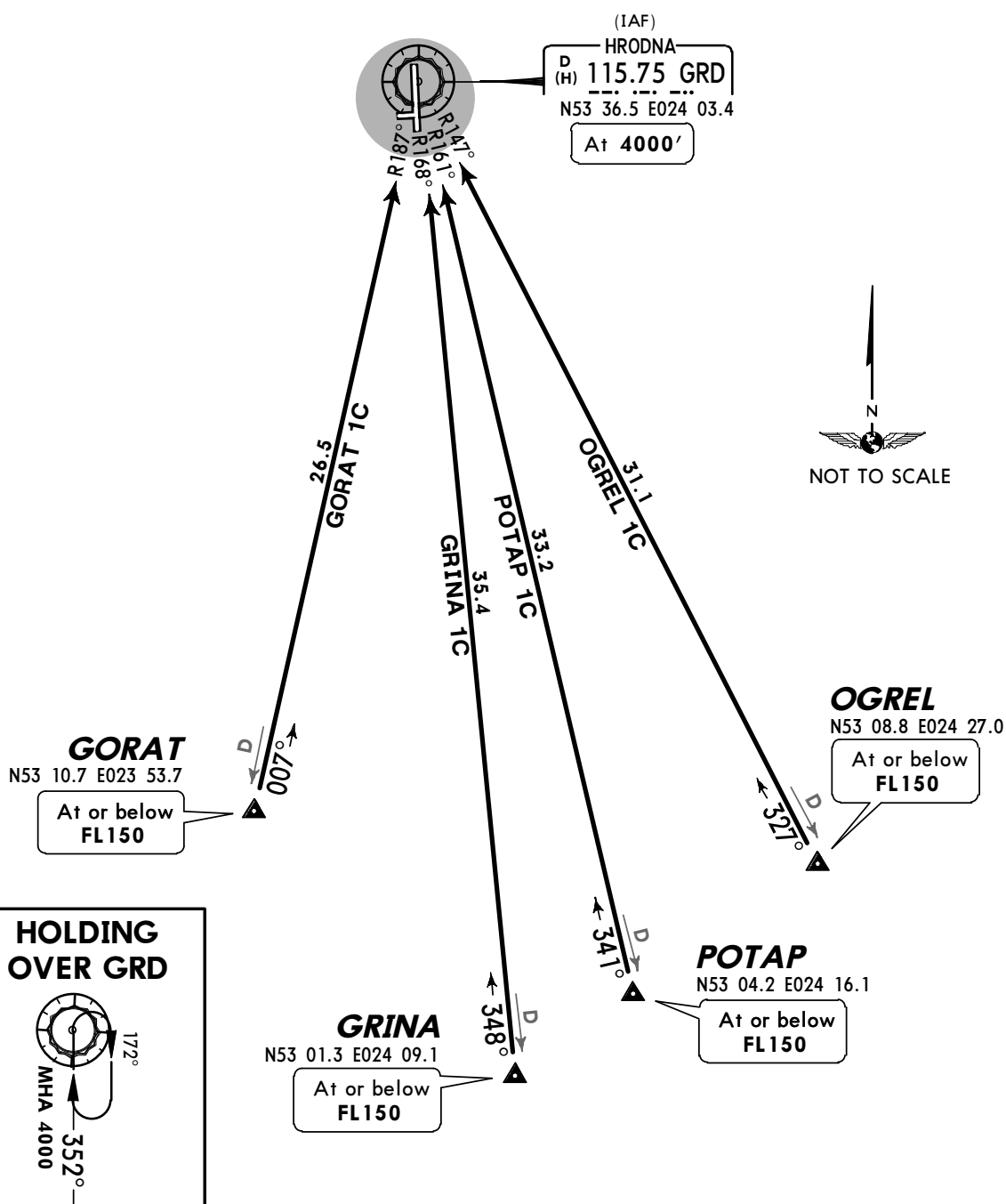
*ATIS
135.02
(Russian 126.17)

Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



GORAT ONE CHARLIE (GORAT 1C)
GRINA ONE CHARLIE (GRINA 1C)
OGREL ONE CHARLIE (OGREL 1C)
POTAP ONE CHARLIE (POTAP 1C)
RWY 17 ARRIVALS
VOR DME REQUIRED



HOLDING
OVER GRD

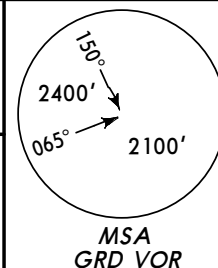


STAR	ROUTING
GORAT 1C	Intercept GRD R-187 inbound to GRD.
GRINA 1C	Intercept GRD R-168 inbound to GRD.
OGREL 1C	Intercept GRD R-147 inbound to GRD.
POTAP 1C	Intercept GRD R-161 inbound to GRD.

*ATIS
135.02
(Russian 126.17)

Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



ENOBI ONE CHARLIE (ENOBI 1C)
SOTET ONE CHARLIE (SOTET 1C)
TUMKI ONE CHARLIE (TUMKI 1C)
ENOBI ONE NOVEMBER (ENOBI 1N)
TUMKI ONE NOVEMBER (TUMKI 1N)
BY ATC

RWY 17 ARRIVALS
VOR DME REQUIRED

TUMKI

N53 56.9 E023 53.9

At or below
FL150

SOTET

N53 49.8 E023 33.2

At or below
FL150

LOBGI

N53 50.2 E023 49.5

(IAF)

GILIP

N53 46.7 E023 53.0

At 4000'

(IAF)

NEPUD

N53 48.4 E024 02.6

At 3000'

MG01
N53 44.8
E023 44.5

NOT TO SCALE

ENOBI

N53 35.6
E023 37.8

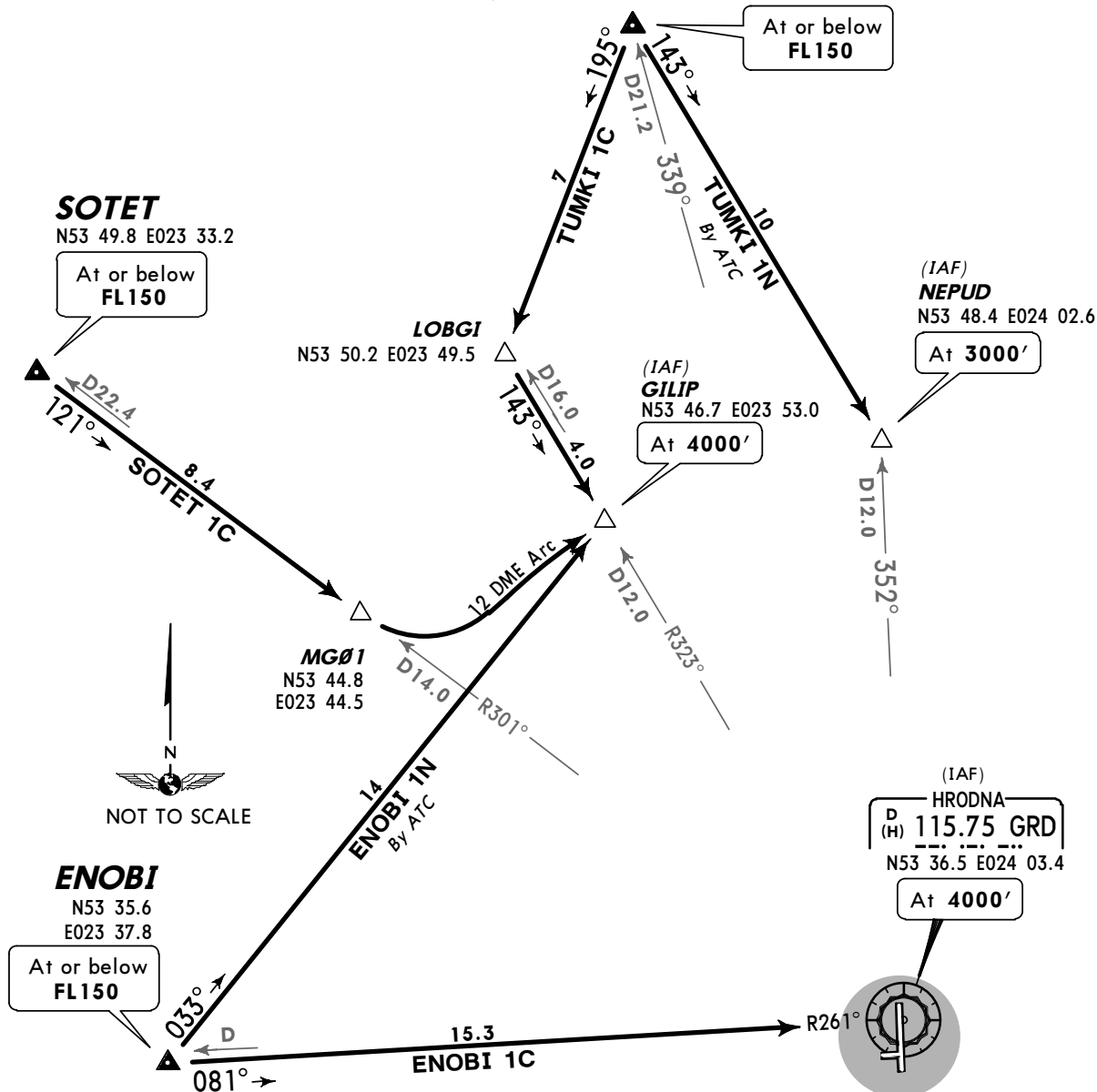
At or below
FL150

(IAF)

HRODNA

D (H) 115.75 GRD
N53 36.5 E024 03.4

At 4000'



STAR

ROUTING

ENOBI 1C

Intercept GRD R-261 inbound to GRD.

ENOBI 1N

By ATC

On 033° track to GILIP.

SOTET 1C

Intercept GRD R-301 inbound to MG01, turn LEFT, along GRD 12 DME arc to GILIP.

TUMKI 1C

On 195° track to LOBGI, turn LEFT, intercept GRD R-323 inbound to GILIP.

TUMKI 1N

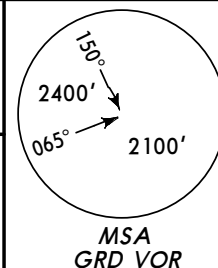
By ATC

On 143° track to NEPUD.

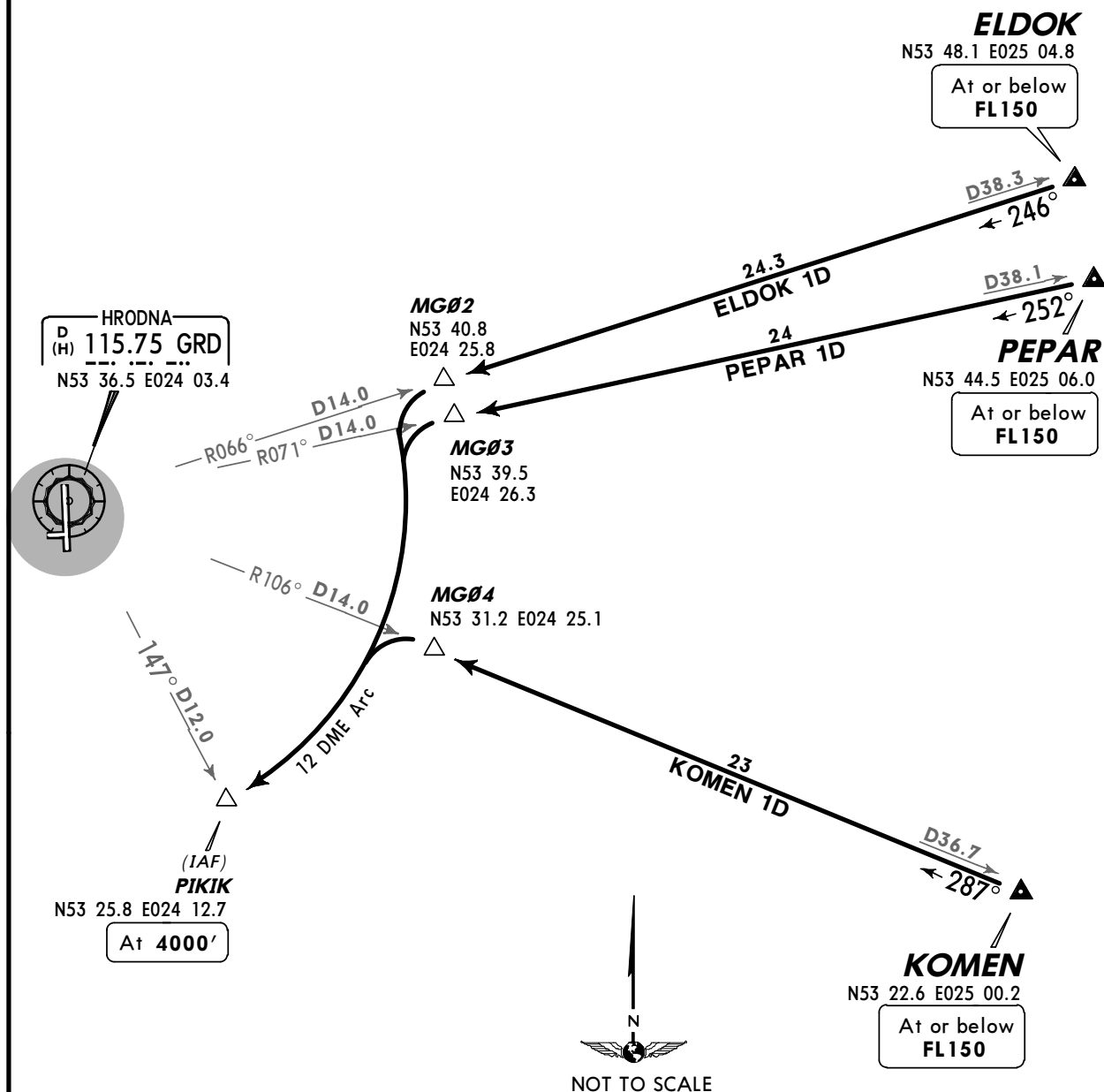
*ATIS
135.02
(Russian 126.17)

Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



ELDOK ONE DELTA (ELDOK 1D)
KOMEN ONE DELTA (KOMEN 1D)
PEPAR ONE DELTA (PEPAR 1D)
RWY 35 ARRIVALS
VOR DME REQUIRED

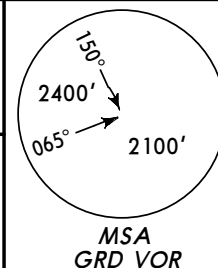


STAR	ROUTING
ELDOK 1D	Intercept GRD R-066 inbound to MG02, turn LEFT, along GRD 12 DME arc to PIKIK.
KOMEN 1D	Intercept GRD R-106 inbound to MG04, turn LEFT, along GRD 12 DME arc to PIKIK.
PEPAR 1D	Intercept GRD R-071 inbound to MG03, turn LEFT, along GRD 12 DME arc to PIKIK.

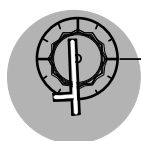
*ATIS
135.02
(Russian 126.17)

Apt Elev
443'

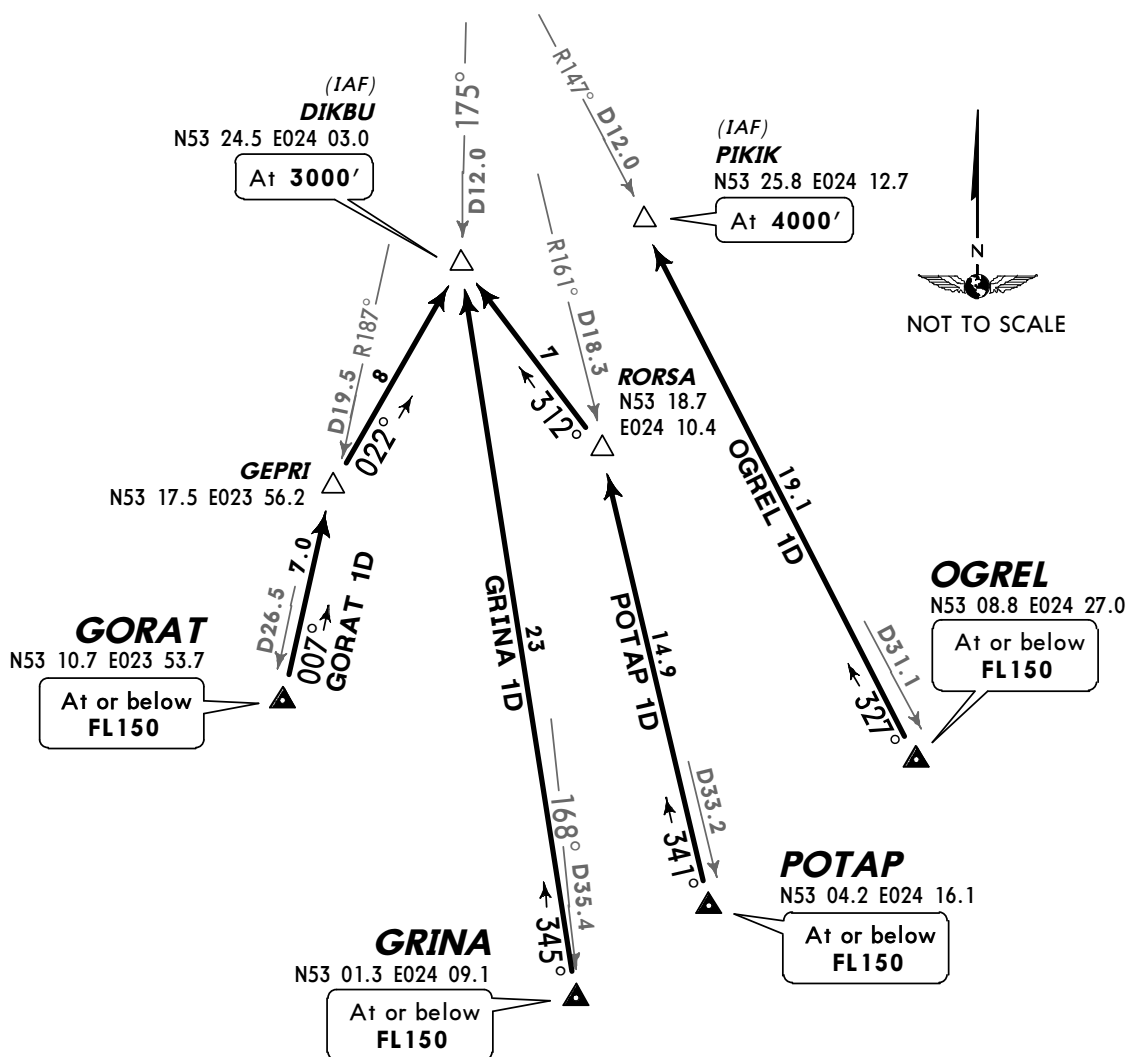
Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



GORAT ONE DELTA (GORAT 1D)
GRINA ONE DELTA (GRINA 1D)
OGREL ONE DELTA (OGREL 1D)
POTAP ONE DELTA (POTAP 1D)
RWY 35 ARRIVALS
VOR DME REQUIRED



HRODNA
D (H) 115.75 GRD
N53 36.5 E024 03.4

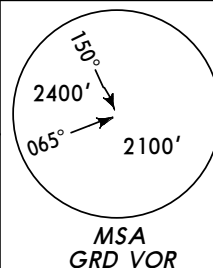


STAR	ROUTING
GORAT 1D	On 007° track to GEPRI, turn RIGHT, 022° track to DIKBU.
GRINA 1D	On 345° track to DIKBU.
OGREL 1D	Intercept GRD R-147 inbound to PIKIK.
POTAP 1D	Intercept GRD R-161 inbound to RORSA, turn LEFT, 312° track to DIKBU.

*ATIS
135.02
(Russian 126.17)

Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



ENOBI ONE DELTA (ENOBI 1D)
SOTET ONE DELTA (SOTET 1D)
TUMKI ONE DELTA (TUMKI 1D)
TUMKI ONE MIKE (TUMKI 1M)
BY ATC

RWY 35 ARRIVALS
VOR DME REQUIRED

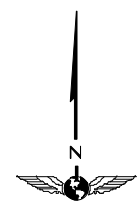
SOTET

N53 49.8 E023 33.2

At or below
FL150



121°



NOT TO SCALE

LOBGI

N53 50.2 E023 49.5

143°

TUMKI

N53 56.9 E023 53.9

At or below
FL150

195°

159°

7

TUMKI 1D

21.2

TUMKI 1M

By ATC

16.0

22.4

SOTET 1D

(IAF)

HRODNA

D (H) 115.75 GRD

N53 36.5 E024 03.4

At 4000'



ENOBI

N53 35.6 E023 37.8

At or below
FL150

261°

130°

D15.3

13

ENOBI 1D

(IAF)

LENLO

N53 26.0

E023 53.4

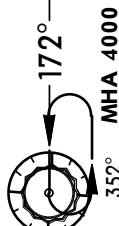
At 4000'



204°

D12.0

**HOLDING
OVER GRD**



STAR

ROUTING

ENOBI 1D

On 130° track to LENLO.

SOTET 1D

Intercept GRD R-301 inbound to GRD.

TUMKI 1D

On 195° track to LOBGI, turn LEFT, intercept GRD R-323 inbound to GRD.

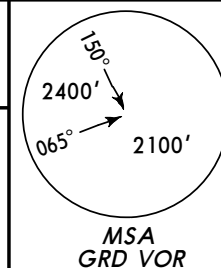
TUMKI 1M

By ATC

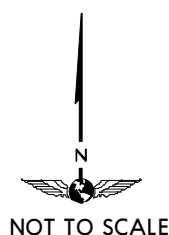
Intercept GRD R-339 inbound to GRD.

Apt Elev
443'

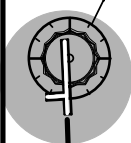
Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



ELDOK ONE ALFA (ELDOK 1A)
KOMEN ONE ALFA (KOMEN 1A)
PEPAR ONE ALFA (PEPAR 1A)
RWY 17 DEPARTURES
VOR DME REQUIRED



HRODNA
D (H) 115.75 GRD
N53 36.5 E024 03.4



At or above
1100'

036°
041°
076°

106°

066°
071°

ELDOK 1A

PEPAR 1A

KOMEN 1A

ELDOK
N53 48.1 E025 04.8
At or below
FL150

PEPAR
N53 44.5 E025 06.0
At or below
FL150

KOMEN
N53 22.6 E025 00.2
At or below
FL150

D38.3

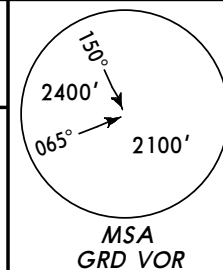
D38.1

D36.7

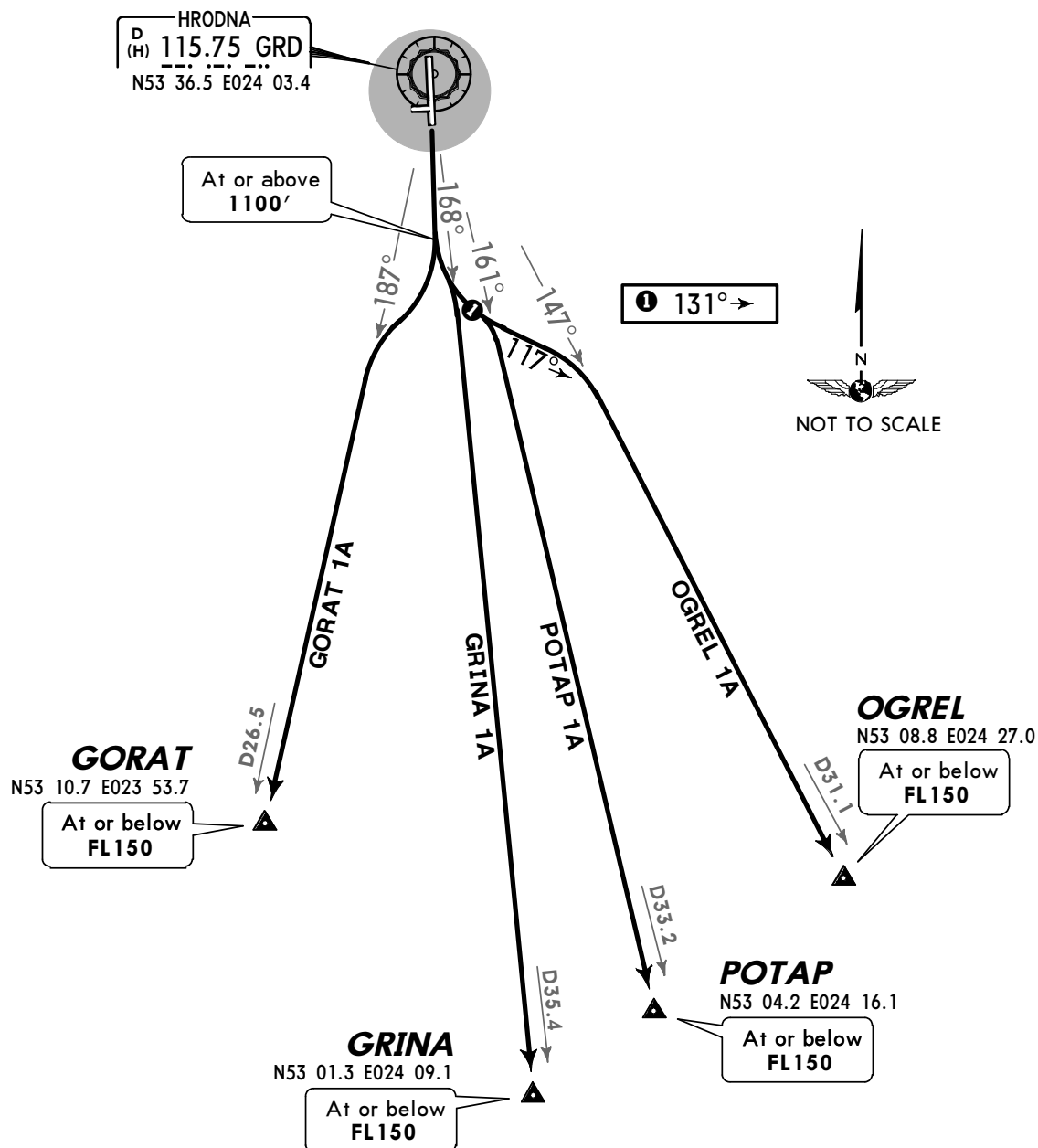
SID	ROUTING
ELDOK 1A	Climb straight ahead to at or above 1100', turn LEFT, 036° track, intercept GRD R-066 to ELDOK.
KOMEN 1A	Climb straight ahead to at or above 1100', turn LEFT, 076° track, intercept GRD R-106 to KOMEN.
PEPAR 1A	Climb straight ahead to at or above 1100', turn LEFT, 041° track, intercept GRD R-071 to PEPAR.

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



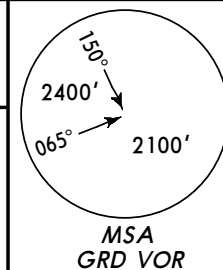
GORAT ONE ALFA (GORAT 1A)
GRINA ONE ALFA (GRINA 1A)
OGREL ONE ALFA (OGREL 1A)
POTAP ONE ALFA (POTAP 1A)
RWY 17 DEPARTURES
VOR DME REQUIRED



SID	ROUTING
GORAT 1A	Climb straight ahead to at or above 1100' , turn RIGHT, intercept GRD R-187 to GORAT.
GRINA 1A	Climb straight ahead to at or above 1100' , turn LEFT, intercept GRD R-168 to GRINA.
OGREL 1A	Climb straight ahead to at or above 1100' , turn LEFT, 117° track, intercept GRD R-147 to OGREL.
POTAP 1A	Climb straight ahead to at or above 1100' , turn LEFT, 131° track, intercept GRD R-161 to POTAP.

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



SOTET ONE ALFA (SOTET 1A)
TUMKI ONE ALFA (TUMKI 1A)
TUMKI ONE KILO (TUMKI 1K)
BY ATC

RWY 17 DEPARTURES
VOR DME REQUIRED

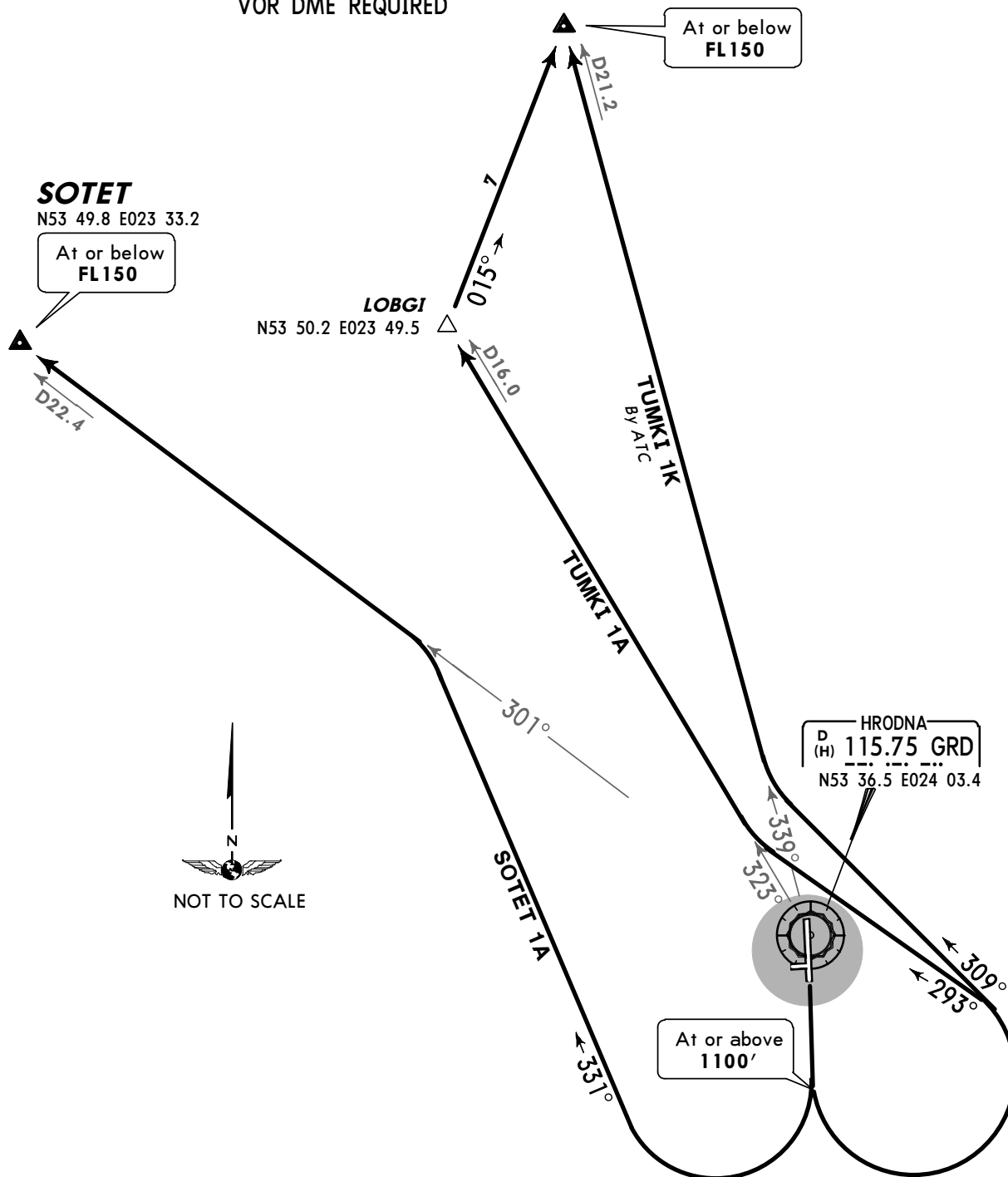
TUMKI
N53 56.9 E023 53.9

At or below
FL150

SOTET
N53 49.8 E023 33.2

At or below
FL150

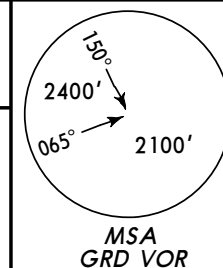
LOBGI
N53 50.2 E023 49.5



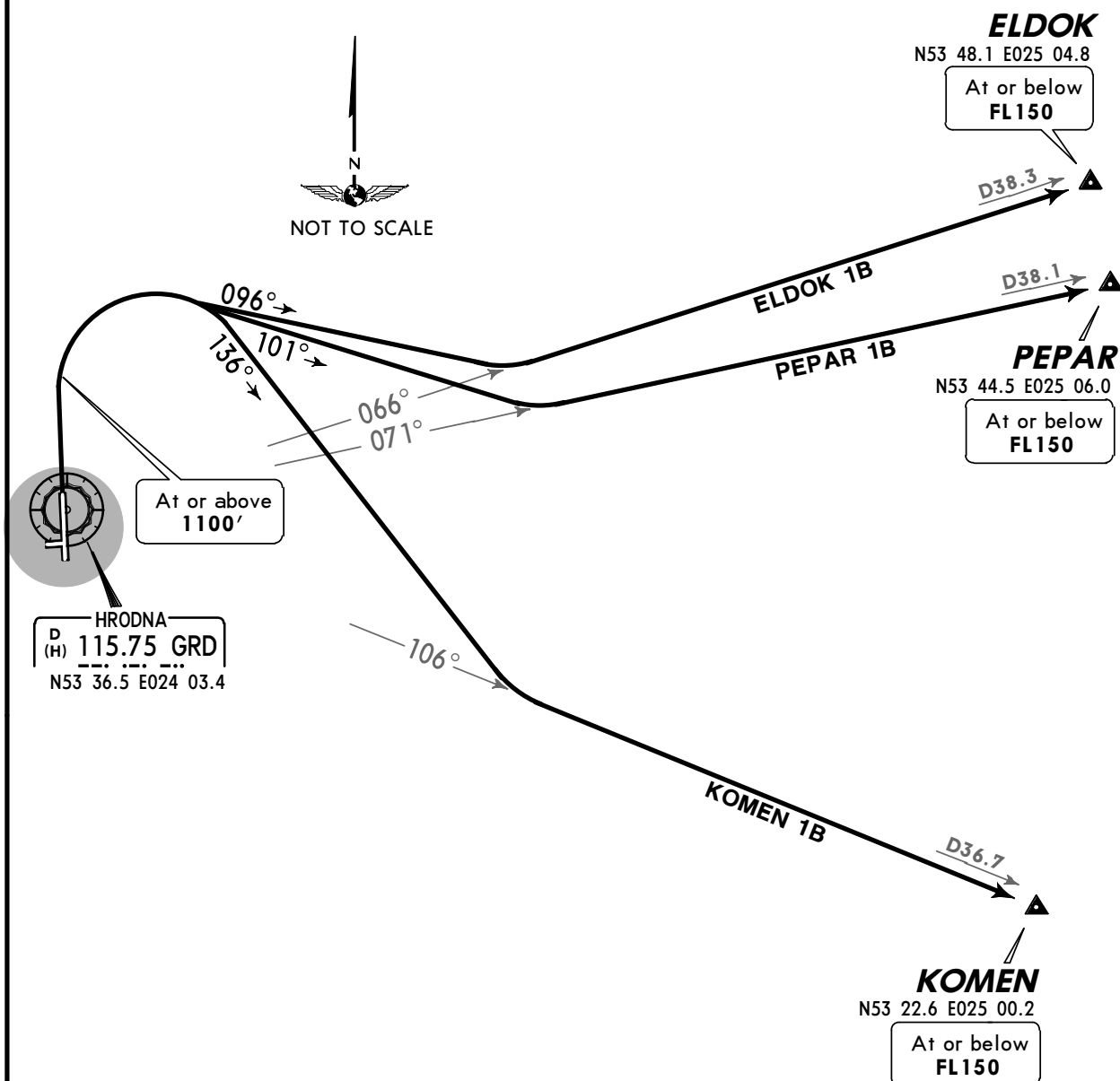
SID	ROUTING
SOTET 1A	Climb straight ahead to at or above 1100' , turn RIGHT, 331° track, intercept GRD R-301 to SOTET.
TUMKI 1A	Climb straight ahead to at or above 1100' , turn LEFT, 293° track, intercept GRD R-323 to LOBGI, turn RIGHT, 015° track to TUMKI.
TUMKI 1K By ATC	Climb straight ahead to at or above 1100' , turn LEFT, 309° track, intercept GRD R-339 to TUMKI.

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



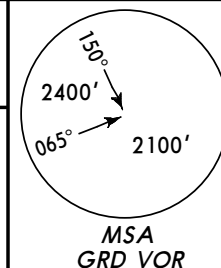
ELDOK ONE BRAVO (ELDOK 1B)
KOMEN ONE BRAVO (KOMEN 1B)
PEPAR ONE BRAVO (PEPAR 1B)
RWY 35 DEPARTURES
VOR DME REQUIRED



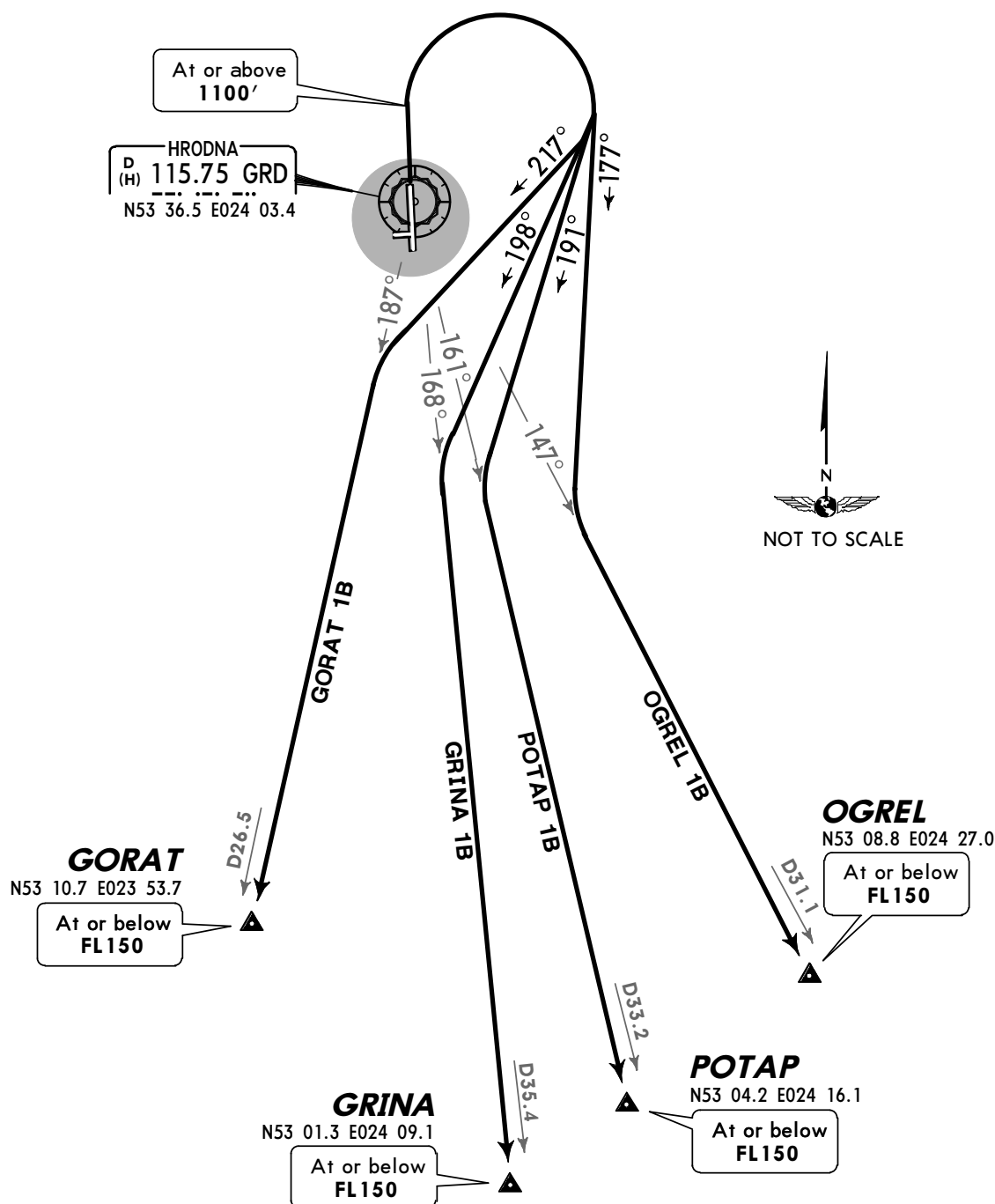
SID	ROUTING
ELDOK 1B	Climb straight ahead to at or above 1100', turn RIGHT, 096° track, intercept GRD R-066 to ELDOK.
KOMEN 1B	Climb straight ahead to at or above 1100', turn RIGHT, 136° track, intercept GRD R-106 to KOMEN.
PEPAR 1B	Climb straight ahead to at or above 1100', turn RIGHT, 101° track, intercept GRD R-071 to PEPAR.

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



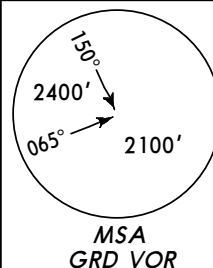
GORAT ONE BRAVO (GORAT 1B)
GRINA ONE BRAVO (GRINA 1B)
OGREL ONE BRAVO (OGREL 1B)
POTAP ONE BRAVO (POTAP 1B)
RWY 35 DEPARTURES
VOR DME REQUIRED



SID	ROUTING
GORAT 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 217° track, intercept GRD R-187 to GORAT.
GRINA 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 198° track, intercept GRD R-168 to GRINA.
OGREL 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 177° track, intercept GRD R-147 to OGREL.
POTAP 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 191° track, intercept GRD R-161 to POTAP.

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



SOTET ONE BRAVO (SOTET 1B)
TUMKI ONE BRAVO (TUMKI 1B)
TUMKI ONE LIMA (TUMKI 1L)
BY ATC

RWY 35 DEPARTURES
VOR DME REQUIRED

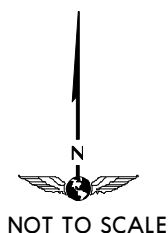
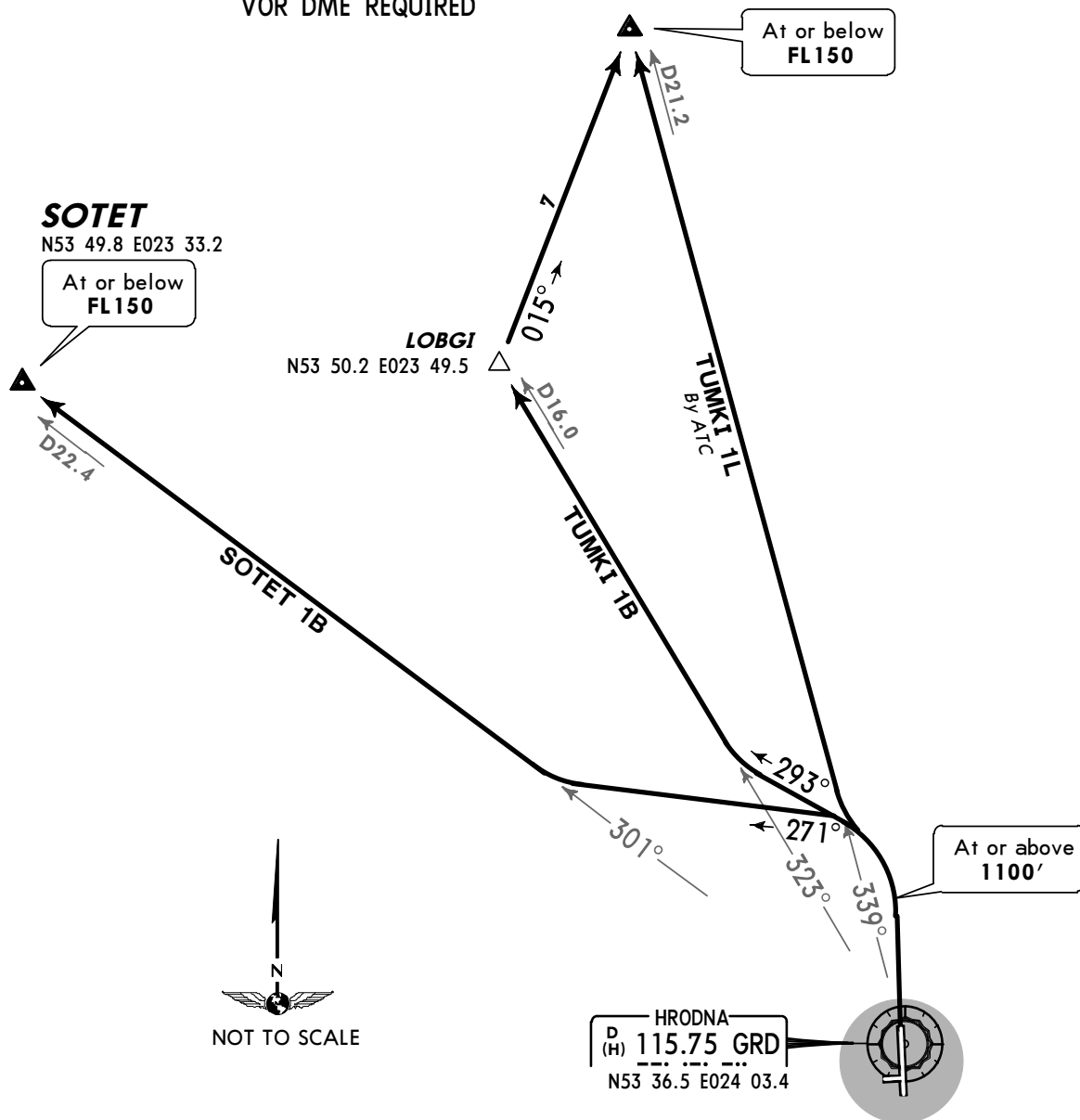
TUMKI
N53 56.9 E023 53.9

At or below
FL150

SOTET
N53 49.8 E023 33.2

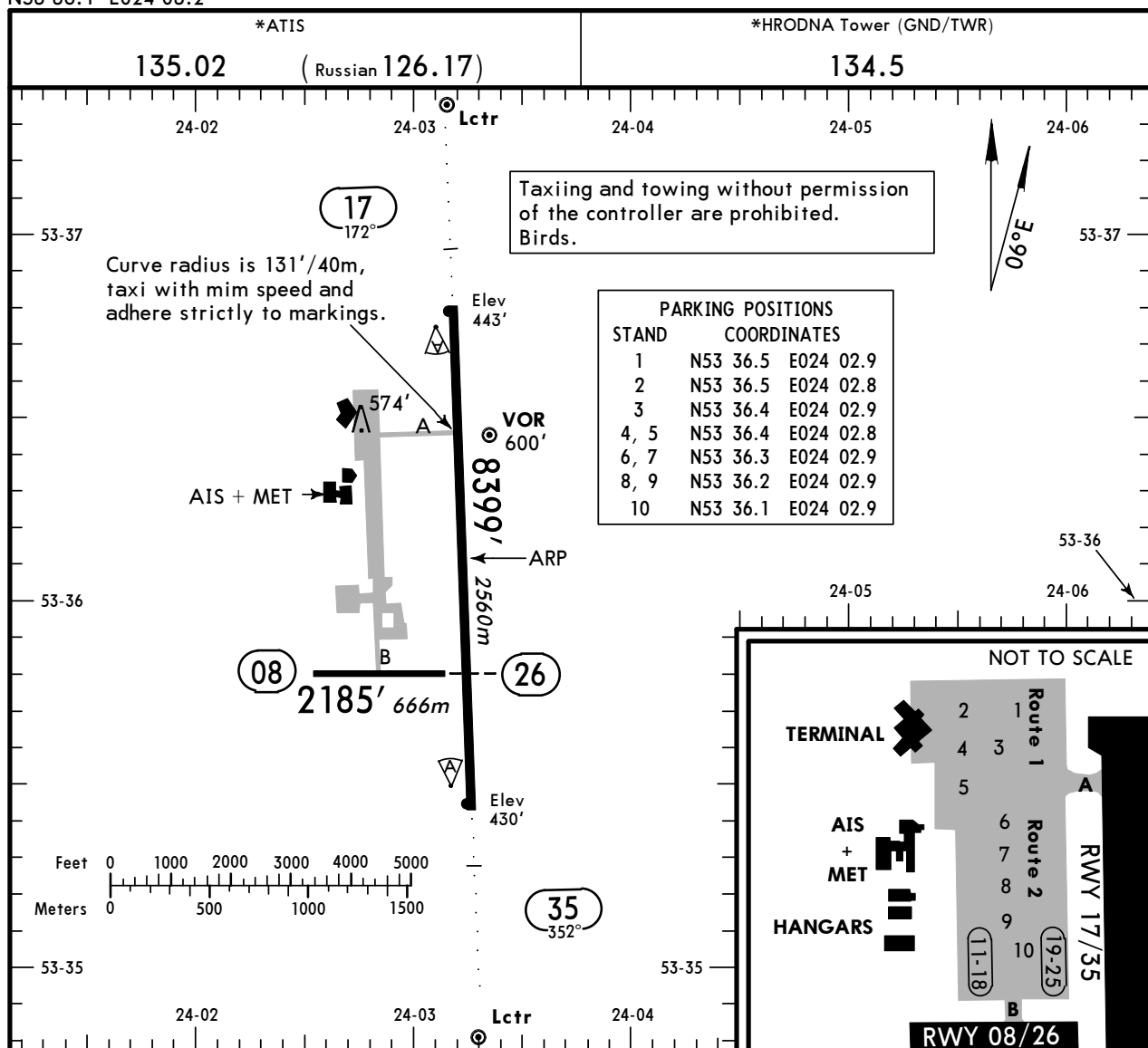
At or below
FL150

LOBGI
N53 50.2 E023 49.5



HRODNA
D (H) 115.75 GRD
N53 36.5 E024 03.4

SID	ROUTING
SOTET 1B	Climb straight ahead to at or above 1100', turn LEFT, 271° track, intercept GRD R-301 to SOTET.
TUMKI 1B	Climb straight ahead to at or above 1100', turn LEFT, 293° track, intercept GRD R-323 to LOBGI, turn RIGHT, 015° track to TUMKI.
TUMKI 1L By ATC	Climb straight ahead to at or above 1100', turn LEFT, intercept GRD R-339 to TUMKI.



ADDITIONAL RUNWAY INFORMATION

RWY				RVR	USABLE LENGTHS		TAKE-OFF	WIDTH
					Threshold	Glide Slope		
08	26							92' 28m
17	35	RL (60m) ALS PAPI-L (angle 2.67°)			8235' 2510m	7245' 2208m	8235' 2510m	138' 42m

TAKE-OFF

AIR CARRIER (JAA)
All Rwys

LVP must be in force
RCLM (DAY only)
or RL

RCLM (DAY only)
or RL

A		
B	250m	400m
C		
D	300m	

STRAIGHT-IN RWY		A	B	C	D
17	ILS	643' (200')	643' (200')	643' (200')	643' (200')
	<i>ALS out</i>	R1000m R1200m	R1000m R1200m	R1000m R1200m	R1000m R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ❶ with DME <i>ALS out</i>	820' (377') R1500m R1500m	820' (377') R1500m R1500m	820' (377') R1500m R1700m	820' (377') R1500m R1700m
	VOR W/o DME <i>ALS out</i>	820' (377') R1700m R1900m	820' (377') R1700m R1900m	820' (377') R1900m C2100m	820' (377') R1900m C2100m
	NDB ❶ with DME <i>ALS out</i>	820' (377') R1500m R1500m	820' (377') R1500m R1500m	820' (377') R1500m R1700m	820' (377') R1500m R1700m
	NDB ❶ W/o DME <i>ALS out</i>	820' (377') R1500m R1700m	820' (377') R1500m R1700m	820' (377') R1500m R1700m	820' (377') R1500m R1700m
35	VOR ❶ with DME <i>ALS out</i>	760' (330') R1300m R1500m	760' (330') R1300m R1500m	760' (330') R1300m R1500m	760' (330') R1300m R1500m
	VOR W/o DME <i>ALS out</i>	760' (330') R1500m R1700m	760' (330') R1500m R1700m	760' (330') R1700m R1900m	760' (330') R1700m R1900m
	NDB ❶ with DME <i>ALS out</i>	760' (330') R1300m R1500m	760' (330') R1300m R1500m	760' (330') R1300m R1500m	760' (330') R1300m R1500m
	NDB ❶ W/o DME <i>ALS out</i>	780' (350') R1400m R1600m	780' (350') R1400m R1600m	780' (350') R1400m R1600m	780' (350') R1400m R1600m

❶ Continuous Descent Final Approach.

CIRCLE-TO-LAND	100 KT	135 KT	180 KT	205 KT
	900' (457') 1500m ❸	950' (507') 1600m ❸	1140' (697') ❷ 2400m	1150' (707') 3600m

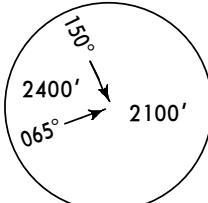
❷ after ILS 17: 1050' (607').

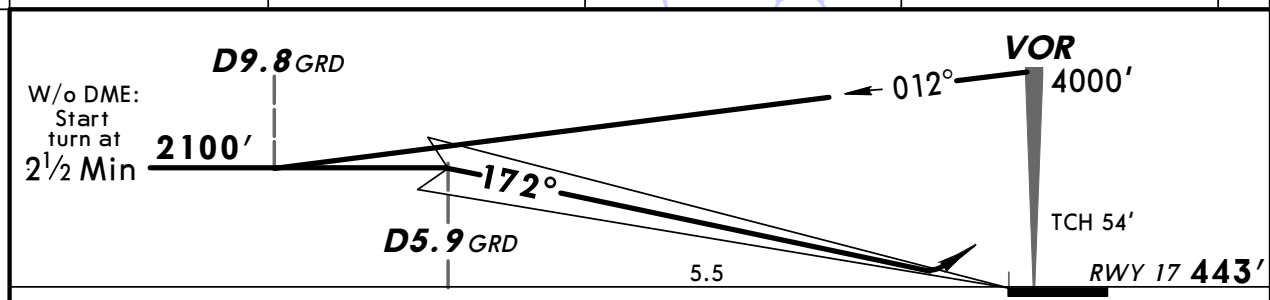
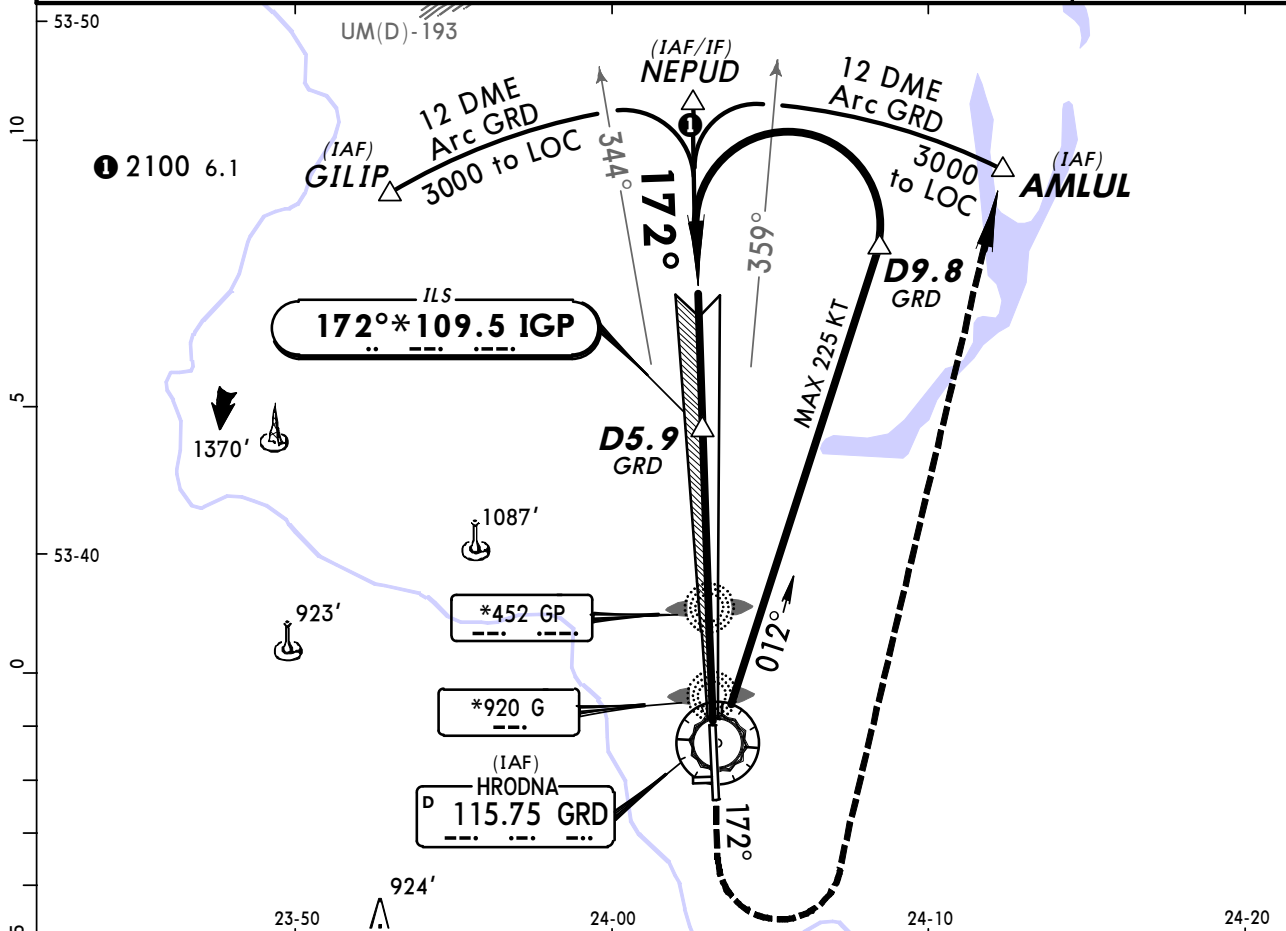
❸ or higher minimums of preceding straight-in approach.

TAKE-OFF RWY 08, 17, 26, 35			
LVP must be in Force			
RCLM (DAY only) or RL		RCLM (DAY only) or RL	NIL (DAY only)
A	250m	400m	500m
B			
C			
D	300m		

TM

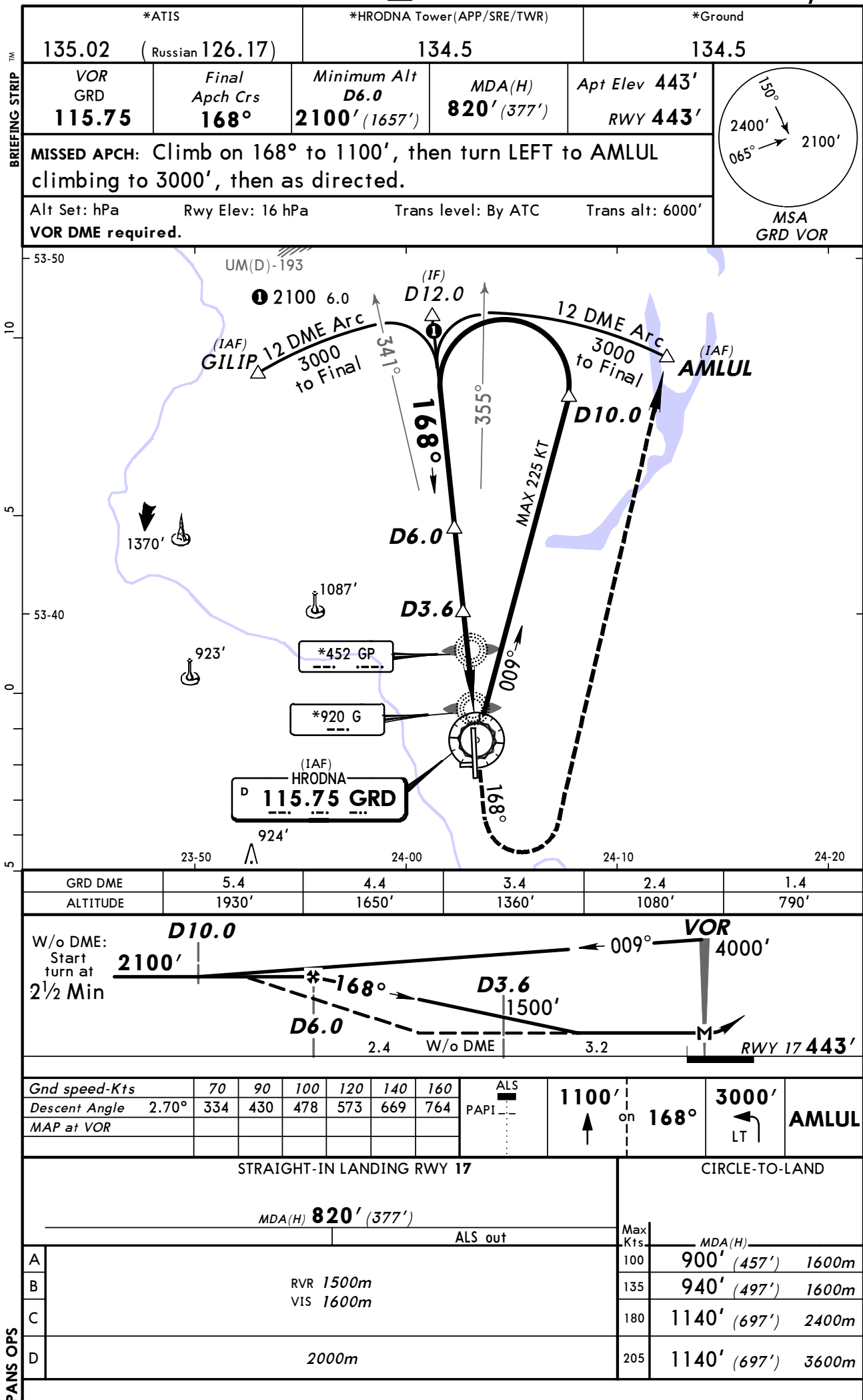
BRIEFING STRIP

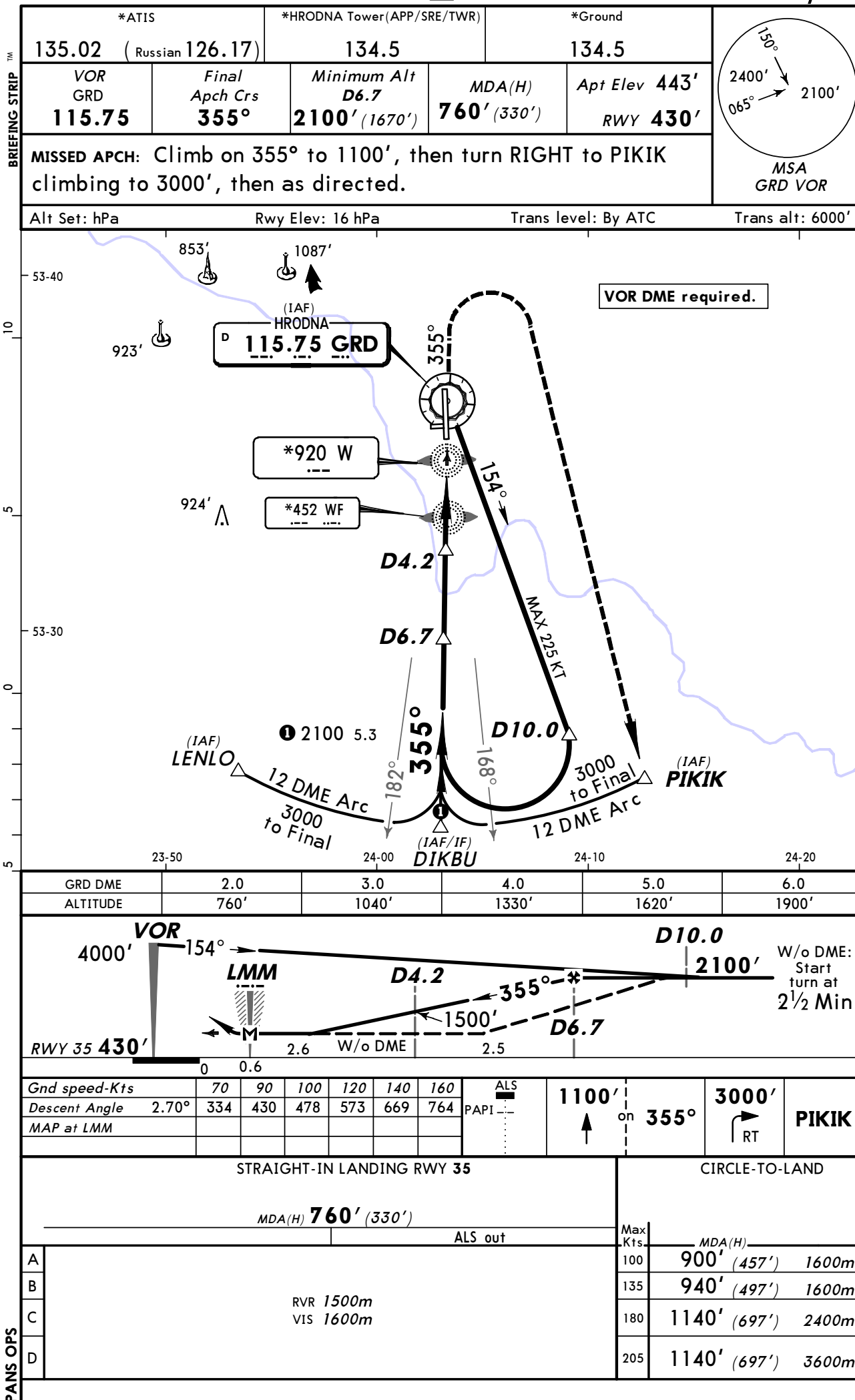
*ATIS		*HRODNA Tower(APP/SRE/TWR)		*Ground		
135.02 (Russian 126.17)		134.5		134.5		
LOC IGP *109.5	Final Apch Crs 172°	GS D5.9 GRD 2100' (1657')	ILS DA(H) 643' (200')	Apt Elev 443' RWY 443'		
MISSED APCH: Climb on 172° to 1100', then turn LEFT to AMLUL climbing to 3000', then as directed.						
Alt Set: hPa		Rwy Elev: 16 hPa		Trans level: By ATC		
VOR DME required.				Trans alt: 6000'		
MSA GRD VOR						

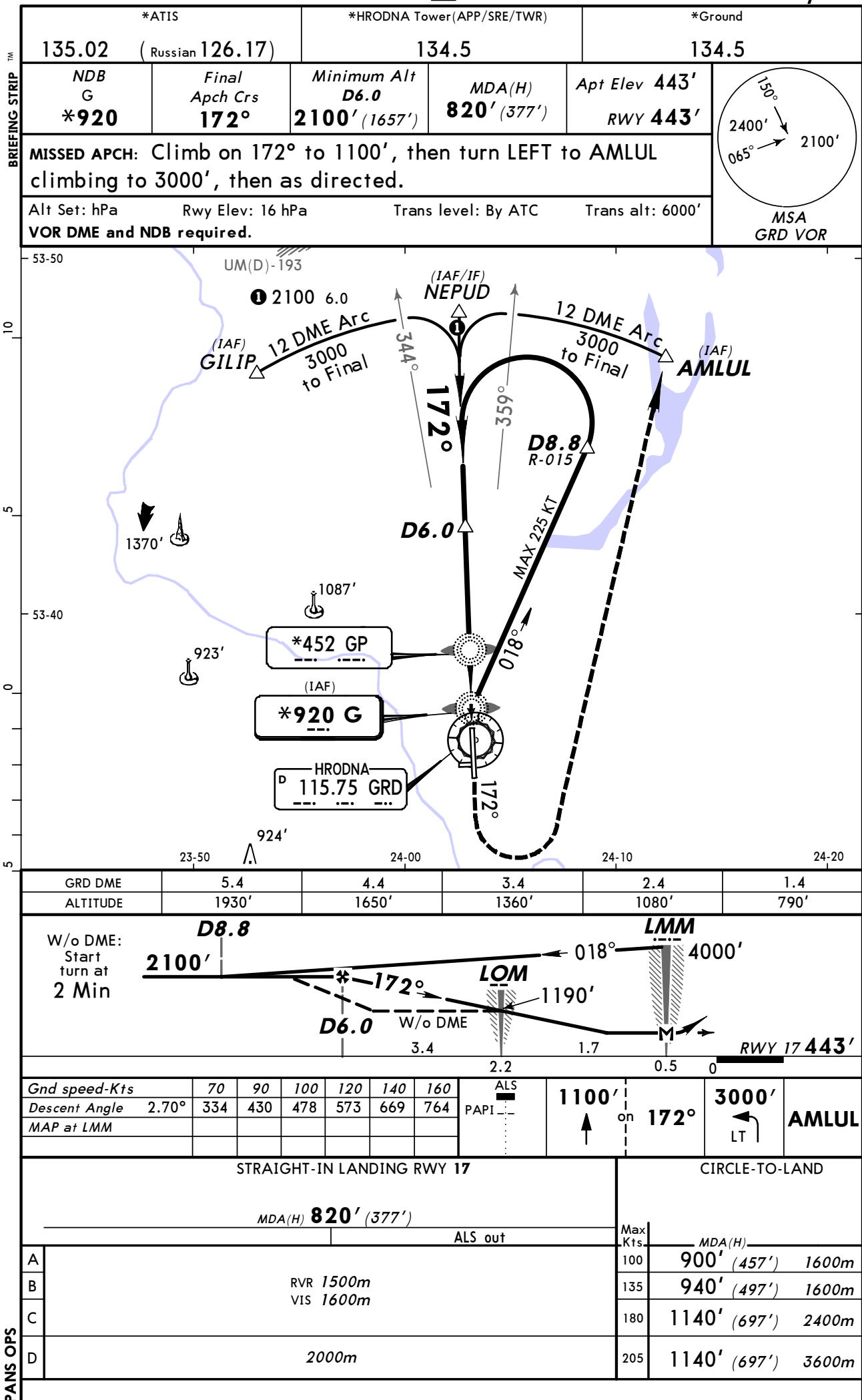


Gnd speed-Kts	70	90	100	120	140	160	ALS	1100'	on 172°	3000'	AMLUL
Descent Angle	2.70°	334	430	478	573	669	764	PAPI		LT	

STRAIGHT-IN LANDING RWY 17				CIRCLE-TO-LAND			
ILS		LOC (GS out)					
DA(H) 643' (200')							
FULL	ALS out			Max Kts	MDA(H)		
A				100	900' (457')	1600m	
B				135	940' (497')	1600m	
C				180	1040' (597')	2400m	
D				205	1140' (697')	3600m	







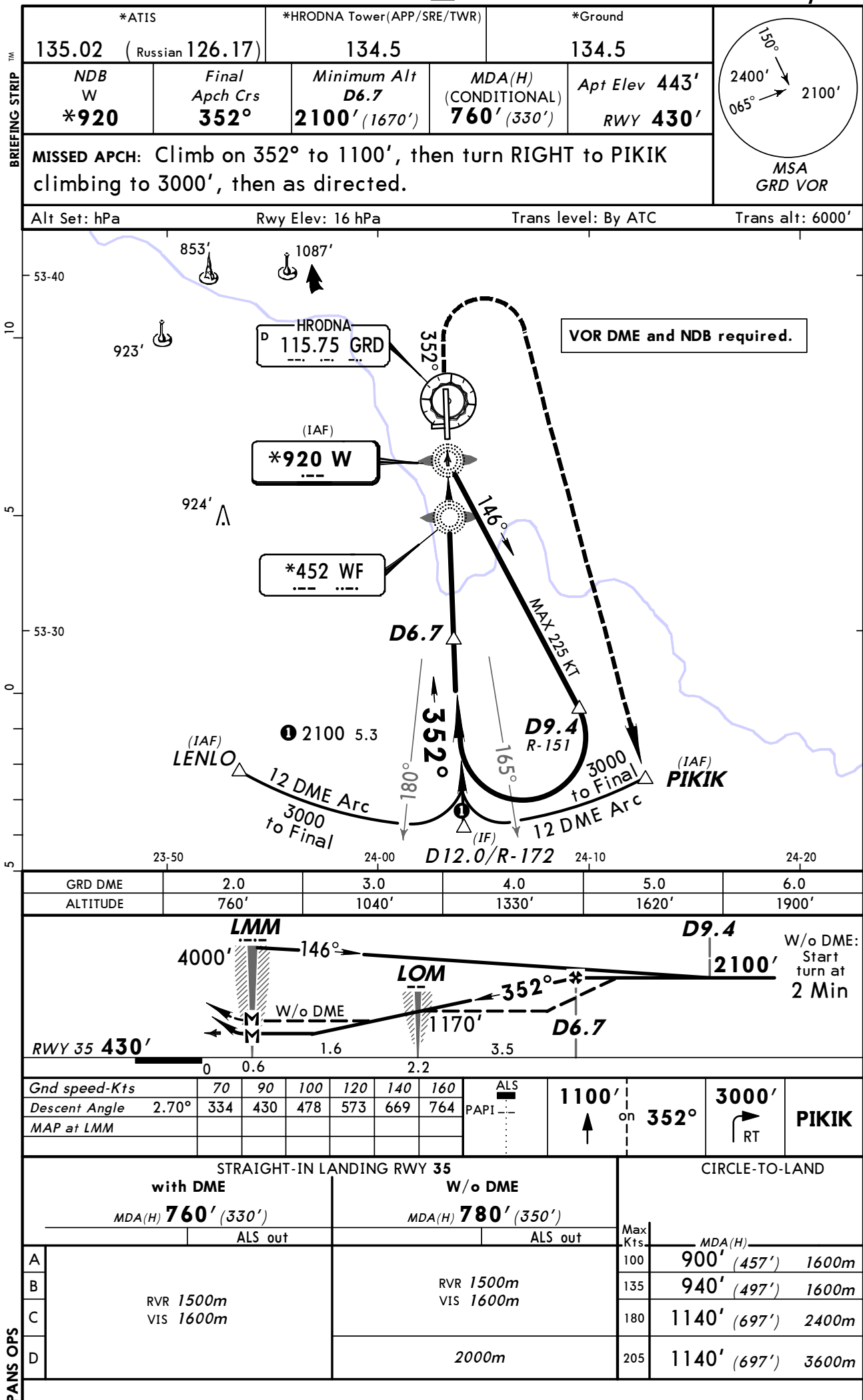




Chart changes since cycle 16-2013

ADD = added chart, REV = revised chart, DEL = deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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HRODNA, (HRODNA - UMMG)

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport UMMG