

List of pages in this Trip Kit

Trip Kit Index
Airport Information For UCFM
Terminal Charts For UCFM
Revision Letter For Cycle 17-2013
Change Notices
Notebook

General Information

Location: Bishkek Kgz
IATA Code: FRU
Lat/Long: N43° 03.7' E074° 28.7'
Elevation: 2090 ft

Airport Use: Public
Magnetic Variation: 5.2°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: 0019 Z
Sunset: 1349 Z,

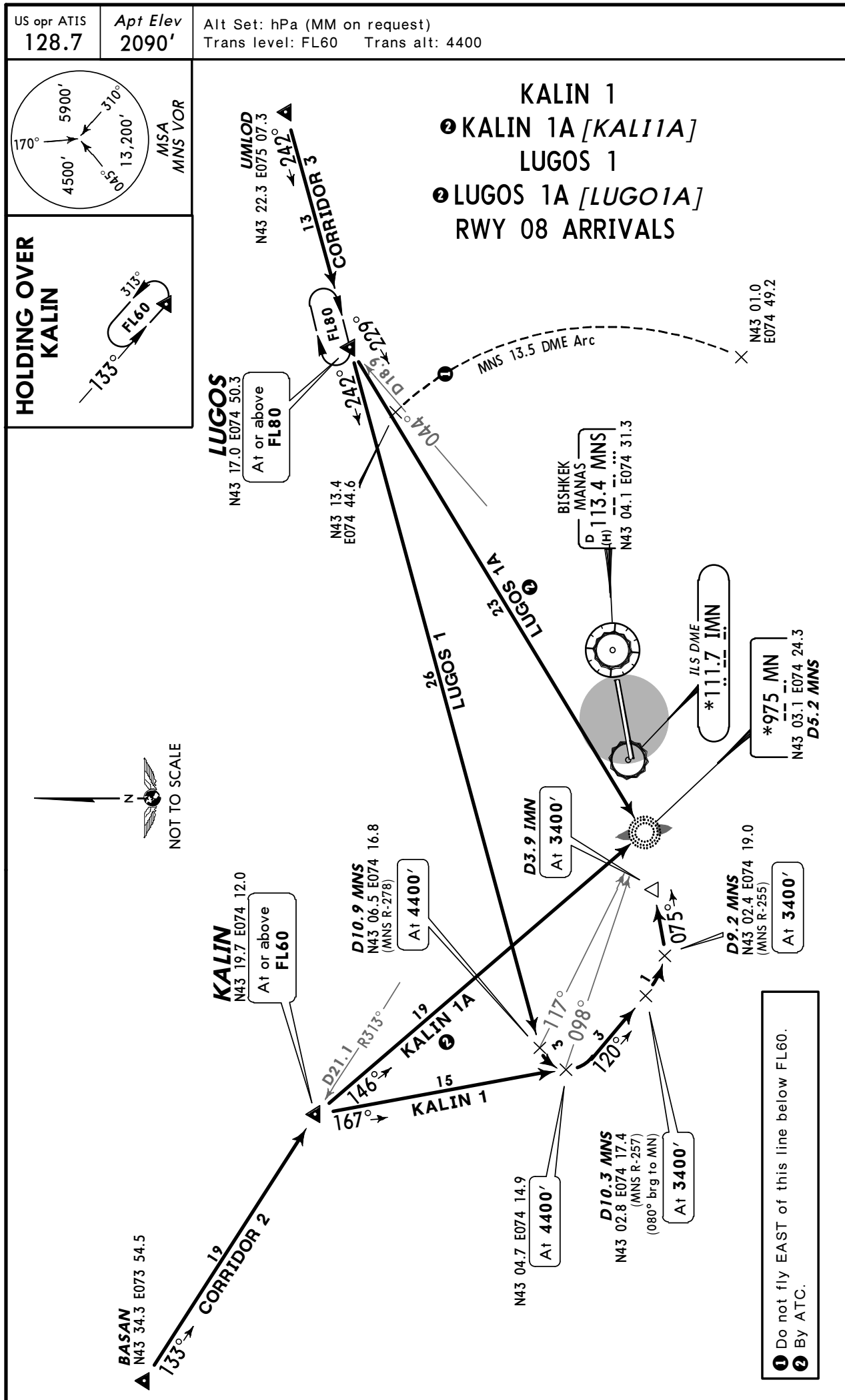
Runway Information

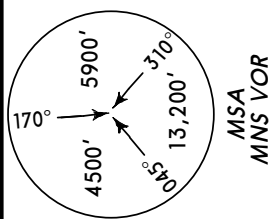
Runway: 08
Length x Width: 13793 ft x 180 ft
Surface Type: concrete
TDZ-Elev: 2090 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 26
Length x Width: 13793 ft x 180 ft
Surface Type: concrete
TDZ-Elev: 2055 ft
Lighting: Edge, ALS, Centerline, TDZ

Communication Information

Bishkek Tower 124.0 Secondary
Bishkek Tower 118.1
Bishkek Taxiing Ground Control 124.0 Secondary
Bishkek Taxiing Ground Control 121.7
Bishkek Approach Control 124.6
Bishkek Approach Control 124.0 Secondary
Bishkek Krug Radar 124.0 Secondary
Bishkek Krug Radar 120.3



US opr ATIS
128.7Apt Elev
2090'Alt Set: hPa (MM on request)
Trans level: FL60 Trans alt: 4400'

RENAT 1

① RENAT 1A [RENA1A]

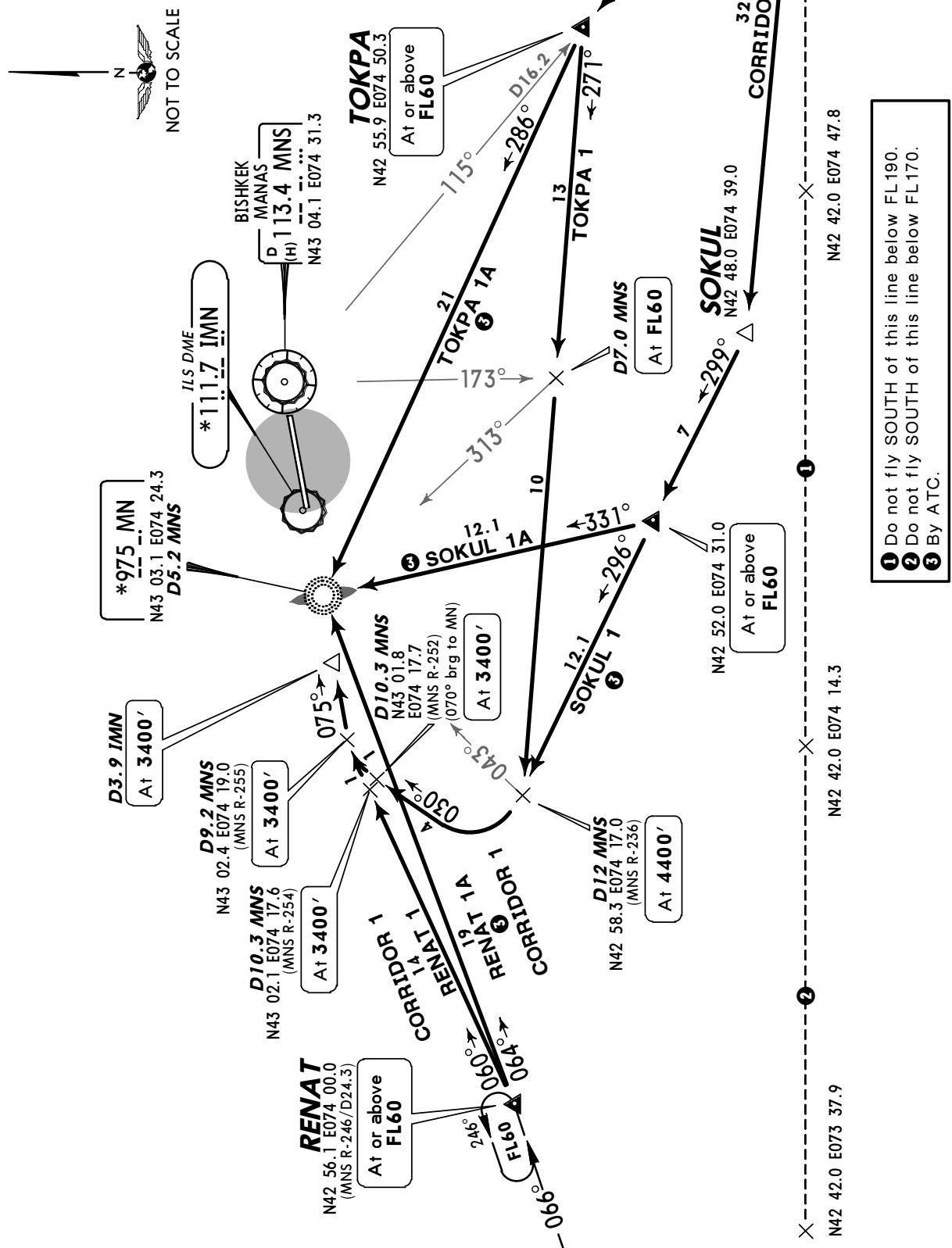
② SOKUL 1

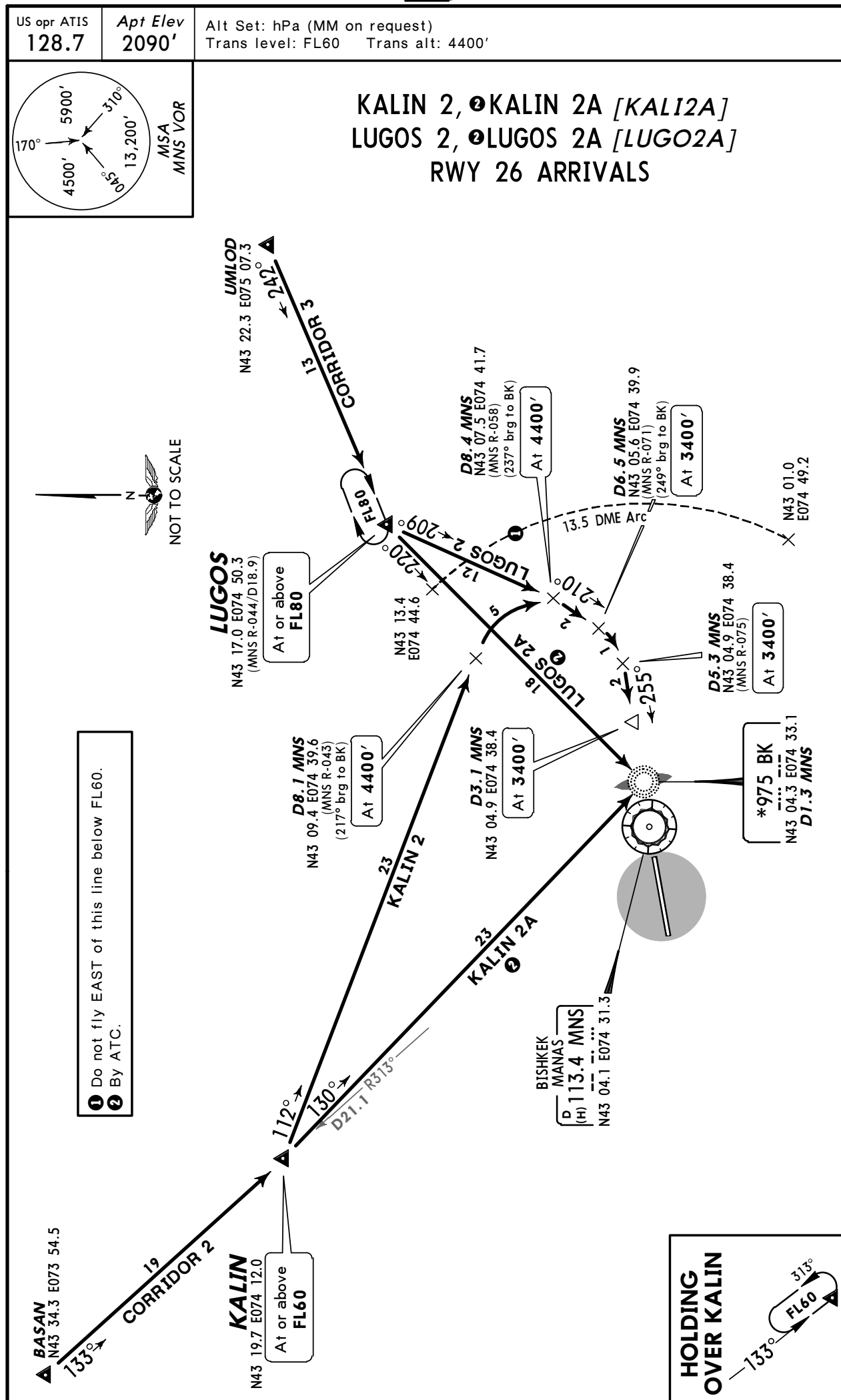
③ SOKUL 1A [SOKU1A]

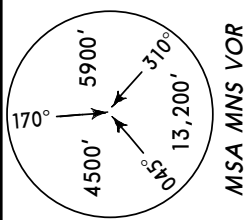
TOKPA 1

④ TOKPA 1A [TOKP1A]

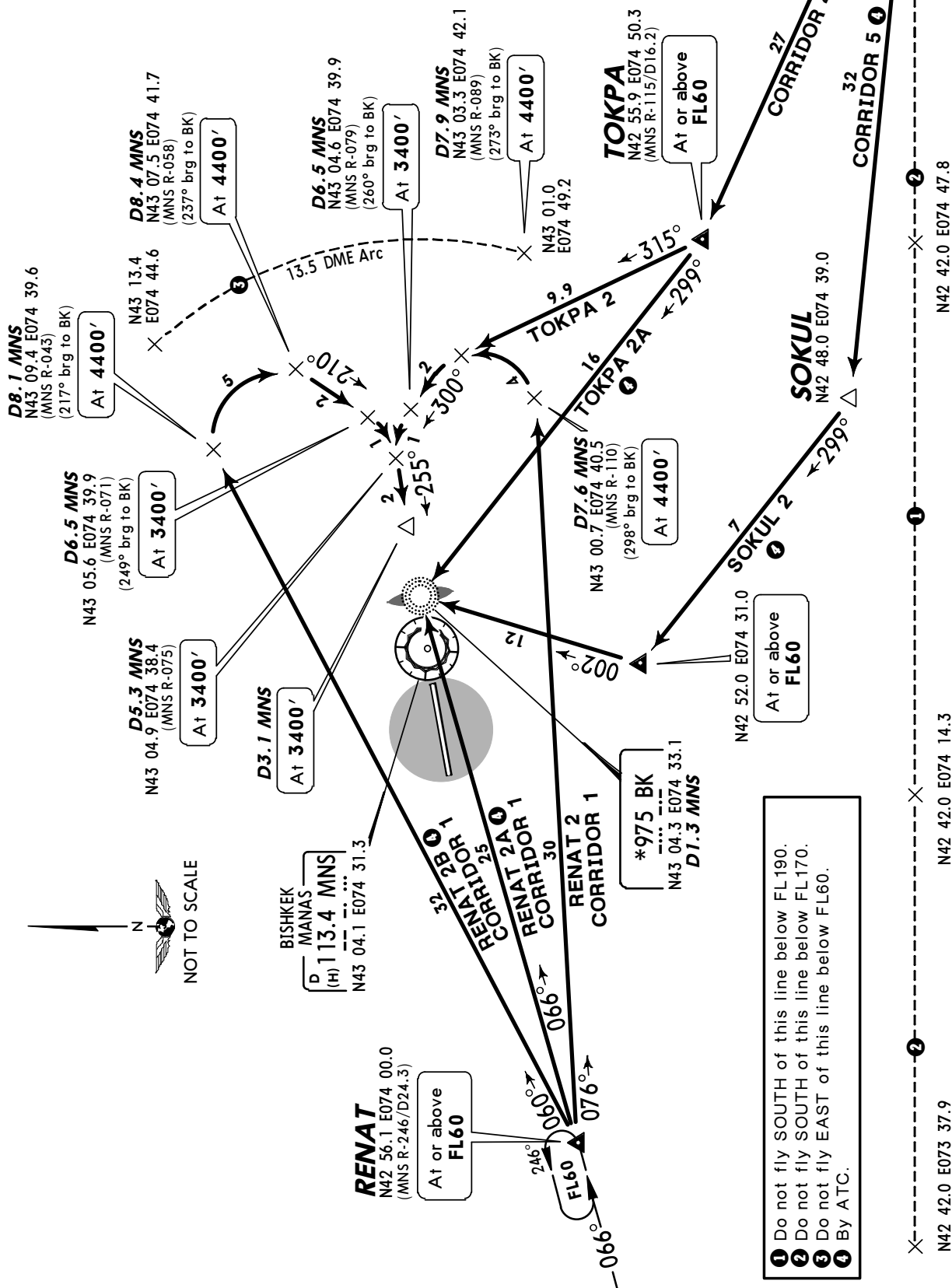
RWY 08 ARRIVALS





US opr ATIS
128.7Apt Elev
2090'Alt Set: hPa (MM on request)
Trans level: FL60 Trans alt: 4400'

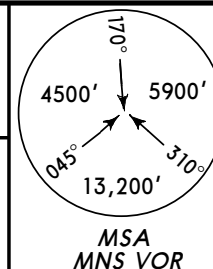
RENAT 2, ● RENAT 2A [RENA2A] ● RENAT 2B [RENA2B], ● SOKUL 2 TOKPA 2, ● TOKPA 2A [TOKP2A] RWY 26 ARRIVALS

KALINOVKA
*430 KL
N42 42.0 E075 22.0

Apt Elev
2090'

Trans level: FL60 Trans alt: 4400'

Flights within holding areas shall be carried out in the opposite direction of SID routes for the purpose of identification of aircraft, which are in the holding area and on the airways, by ATC.

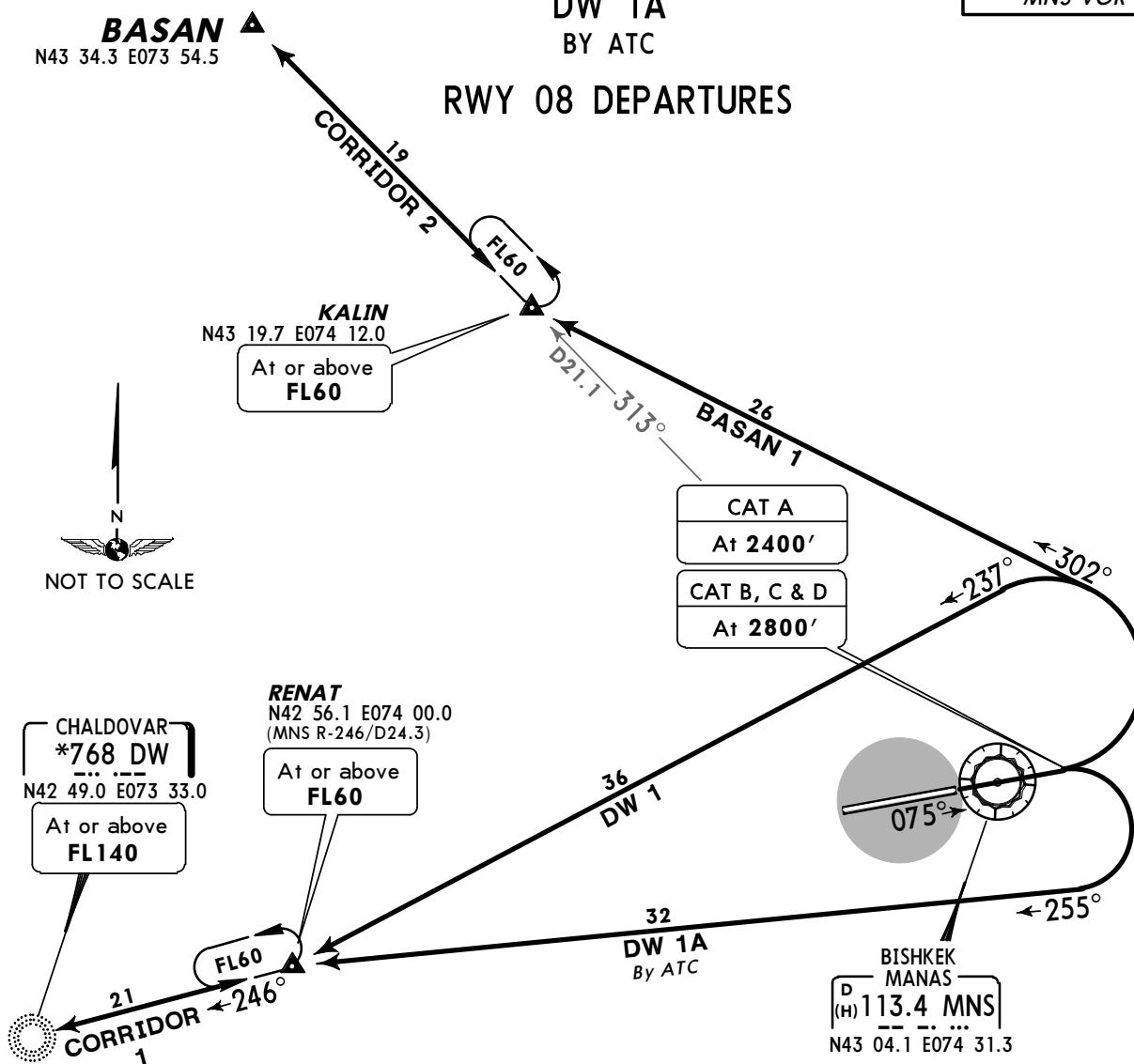


BASAN 1, DW 1

DW 1A

BY ATC

RWY 08 DEPARTURES



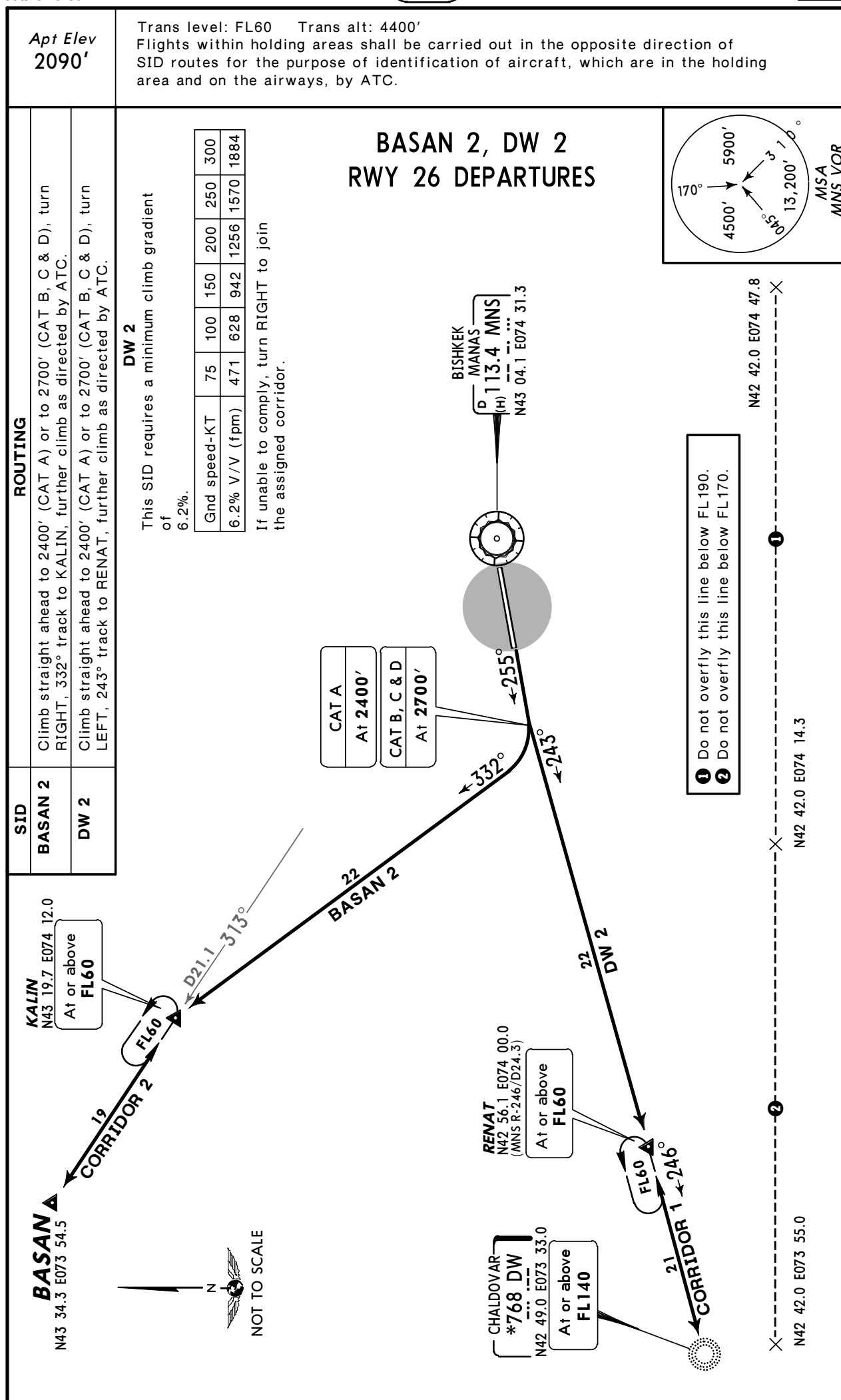
- ❶ Do not fly SOUTH of this line below FL190.
❷ Do not fly SOUTH of this line below FL170.

DW 1, 1A

When climb gradients are less than those indicated in the table, turn RIGHT after take-off, to join the assigned corridor.

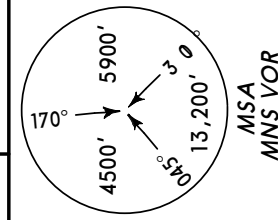
Gnd speed-KT	75	100	150	200	250	300
6.2% V/V(fpm)	471	628	942	1256	1570	1884
5.6% V/V(fpm)	425	567	851	1134	1418	1702

SID	ROUTING
BASAN 1	Climb straight ahead to 2400' (CAT A) or 2800' (CAT B, C & D), turn LEFT, 302° track to KALIN, further climb as directed by ATC.
DW 1	Climb straight ahead to 2400' (CAT A) or 2800' (CAT B, C & D), turn LEFT, 237° track to RENAT, further climb as directed by ATC.
DW 1A By ATC	Climb straight ahead to 2400' (CAT A) or 2800' (CAT B, C & D), turn RIGHT, 255° track to RENAT, further climb as directed by ATC.



Apt Elev
2090'

Trans level: FL60 Trans alt: 4400'
Flights within holding areas shall be carried out in the opposite direction of SID routes for the purpose of identification of aircraft, which are in the holding area and on the airways, by ATC.

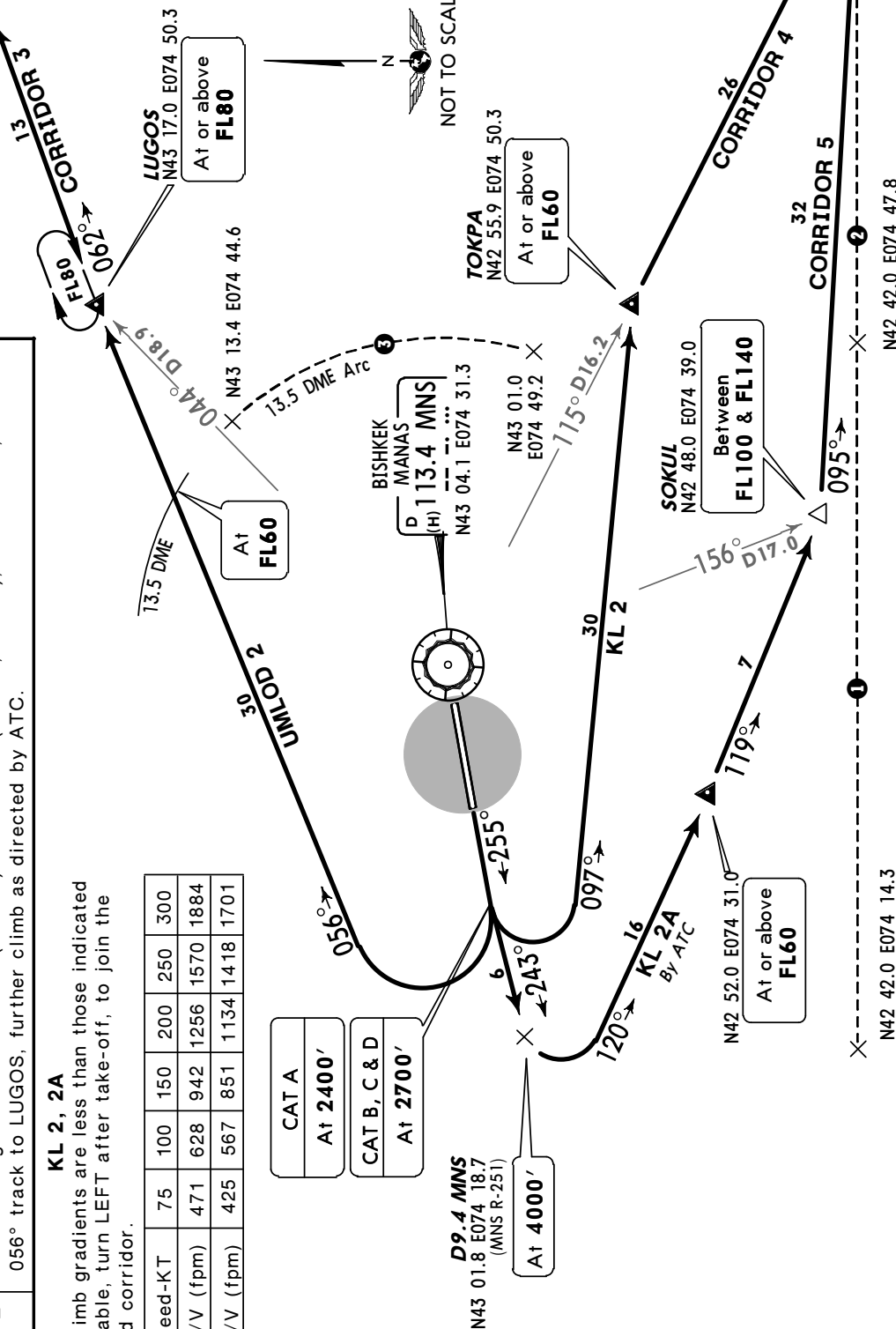


KL 2, UML0D 2

KL 2A
BY ATC

RWY 26 DEPARTURES

- 1 Do not overfly this line below FL190.
- 2 Do not overfly this line below FL170.
- 3 Do not fly EAST of this line below FL60.

UML0D
N43 22.3
E075 07.3

ROUTING

SID	ROUTING
KL 2	Climb straight ahead to 2400' (CAT A) or to 2700' (CAT B, C & D), turn LEFT, 097° track to TOKPA, further climb as directed by ATC.
KL 2A By ATC	Climb straight ahead to 2400' (CAT A) or to 2700' (CAT B, C & D), turn LEFT, 243° track to D9.4 MNS, turn LEFT, 120° track to N42 52.0 E074 31.0, further climb as directed by ATC.
UML0D 2	Climb straight ahead to 2400' (CAT A) or to 2700' (CAT B, C & D), turn RIGHT, 056° track to LUGOS, further climb as directed by ATC.

KL 2, 2A

When climb gradients are less than those indicated in the table, turn LEFT after take-off, to join the assigned corridor.

Gnd speed-KT	75	100	150	200	250	300
6.2% V/V (fpm)	471	628	942	1256	1570	1884
5.6% V/V (fpm)	425	567	851	1134	1418	1701

CAT A
At 2400'CAT B, C & D
At 2700'**D9.4 MNS**
N43 01.8 E074 18.7
(MNS R-251)

At 4000'

KL 2A
By ATCAt or above
FL60

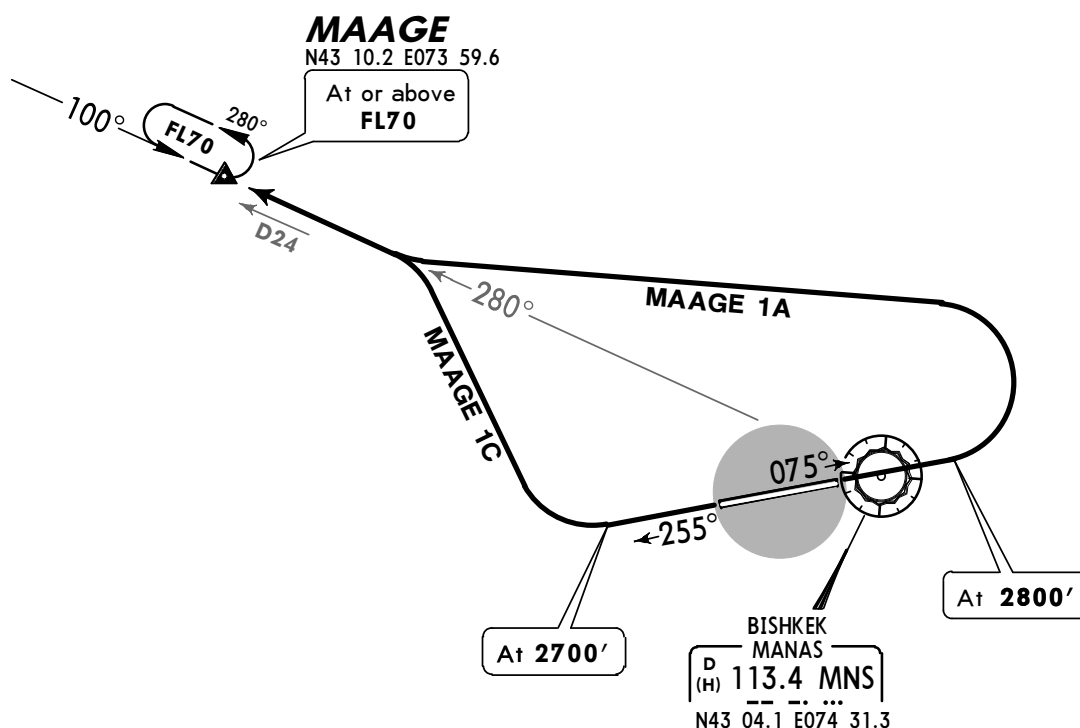
N42 52.0 E074 31.0

N42 42.0 E074 47.8

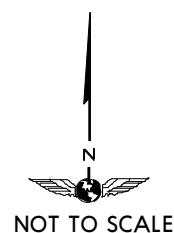
Apt Elev
2090'

Trans level: FL60 Trans alt: 4400'

EXPECT Close-in obstacles:

RWY 08 - Radar antenna 1446' from DER, 5' RIGHT of centerline,
19' AGL/2067' MSL.RWY 26 - Radar antenna 1251' from DER, 15' RIGHT of centerline,
23' AGL/2111' MSL.**MAAGE 1A [MAGE1A]
MAAGE 1C [MAGE1C]
RWYS 08, 26 DEPARTURES****MINIMUM CLIMB RATE**

RWY	Gnd speed-KT	75	100	150	200	250	300
26	3.81% V/V (fpm)	289	386	579	772	965	1158



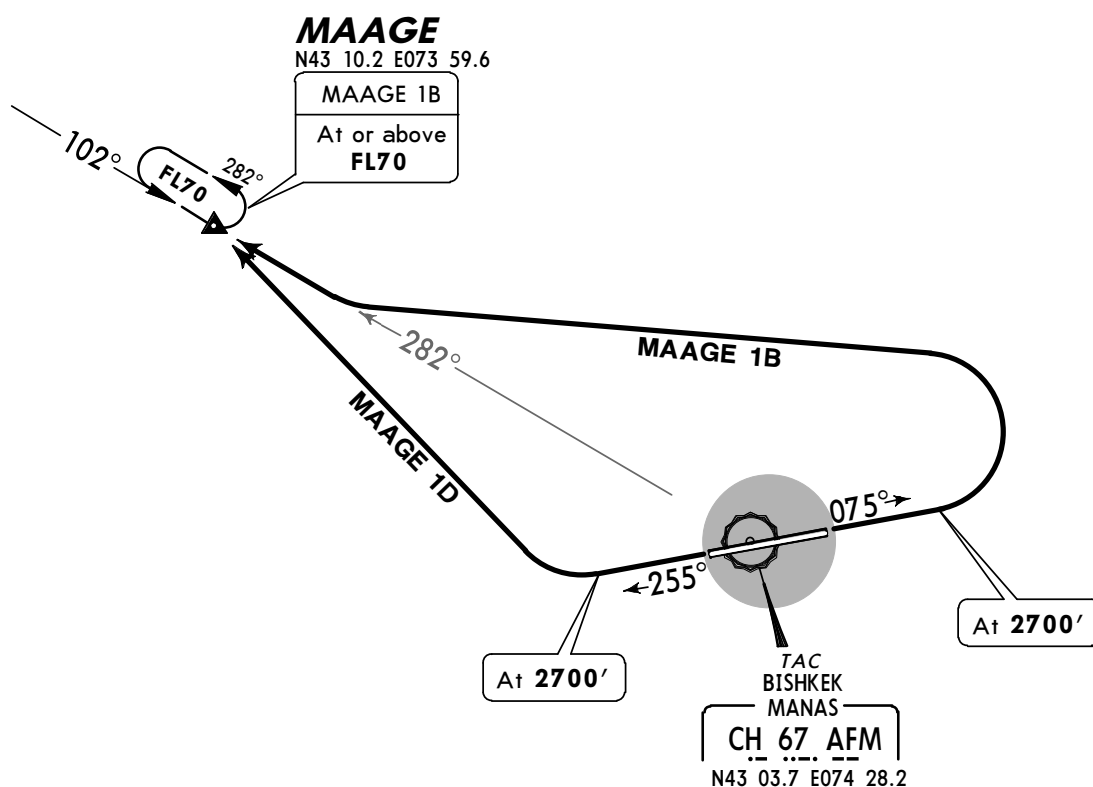
SID	RWY	ROUTING
MAAGE 1A RADAR REQUIRED	08	Climb on 075° track to 2800', turn LEFT, intercept MNS R-280 to MAAGE, further climb as directed by ATC.
MAAGE 1C	26	Climb on 225° track to 2700', turn RIGHT, intercept MNS R-280 to MAAGE, further climb as directed by ATC.

Apt Elev
2090'

Trans level: FL60 Trans alt: 4400'
EXPECT Close-in obstacles:
RWY 08 - Radar antenna 1446' from DER, 5' RIGHT of centerline,
19' AGL/2067' MSL.
RWY 26 - Radar antenna 1251' from DER, 15' RIGHT of centerline,
23' AGL/2111' MSL.

MAAGE 1B
MAAGE 1D [MAAGE1D]
RWYS 08, 26 DEPARTURES
RADAR REQUIRED
TACAN AZIMUTH REQUIRED

Direct distance from Manas airport
to MAAGE: 24 NM

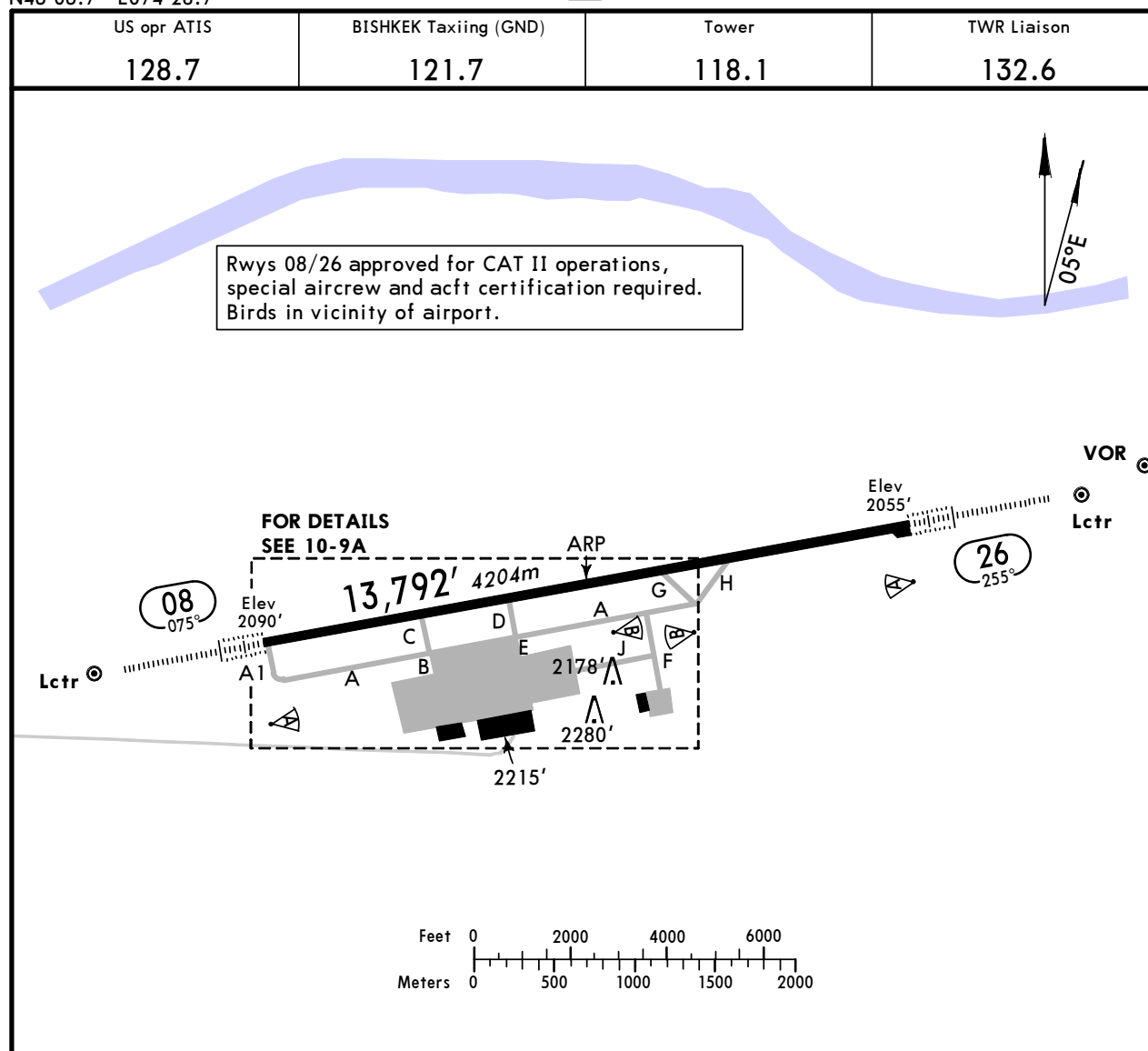


MINIMUM CLIMB RATE

RWY	Gnd speed-KT	75	100	150	200	250	300
26	3.81% V/V (fpm)	289	386	579	772	965	1158



SID	RWY	ROUTING
MAAGE 1B	08	Climb on 075° track to 2700', turn LEFT, intercept AFM R-282 to MAAGE, further climb as directed by ATC.
MAAGE 1D	26	Climb on 225° track to 2700', turn RIGHT, direct to MAAGE climbing to 7000', further climb as directed by ATC.



ADDITIONAL RUNWAY INFORMATION

RWY			USABLE LENGTHS		TAKE-OFF	WIDTH
			Threshold	Landing Beyond Glide Slope		
08	26	HIRL (60m) CL (15m) HIALS-II TDZ PAPI-L (3.0°) RVR		12,698' 3870m 12,577' 3834m	13,464' 4104m ①	180' 55m

① First 328'/100m unusable for take-off.

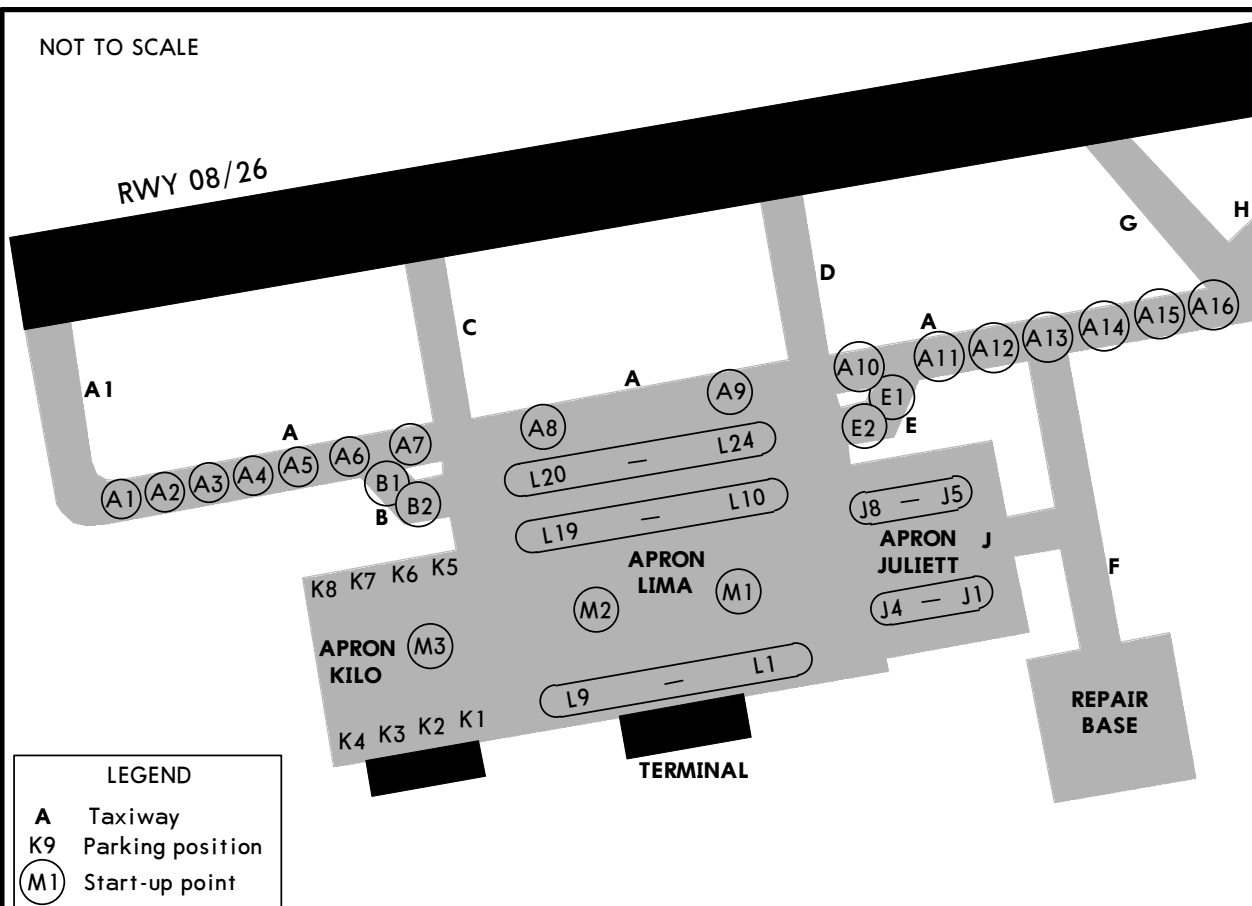
TAKE-OFF

AIR CARRIER (JAA)
All Rwys

LVP must be in force

	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL
A			
B	200m (150m)	250m	400m
C			
D	250m (200m)	300m	

NOT TO SCALE

**INS COORDINATES**

STAND No.	COORDINATES		STAND No.	COORDINATES	
J1 thru J4 J5, J6 J7, J8	Apron Juliett		L1 thru L3 L4, L5 L6 thru L8 L9 L10, L11 L12, L13 L14 thru L16 L17 thru L19 L20 thru L22 L23, L24	Apron Lima	
	N43 03.3	E074 28.4		N43 03.3	E074 28.3
	N43 03.4	E074 28.5		N43 03.3	E074 28.2
	N43 03.4	E074 28.4		N43 03.3	E074 28.0
			N43 03.3	E074 27.1	
			N43 03.4	E074 28.3	
			N43 03.4	E074 28.2	
			N43 03.4	E074 28.0	
			N43 03.3	E074 28.0	
			N43 03.4	E074 28.0	
			N43 03.4	E074 28.2	

Exit stands K1 thru K8 and L1 thru L9 and L20 by towing.

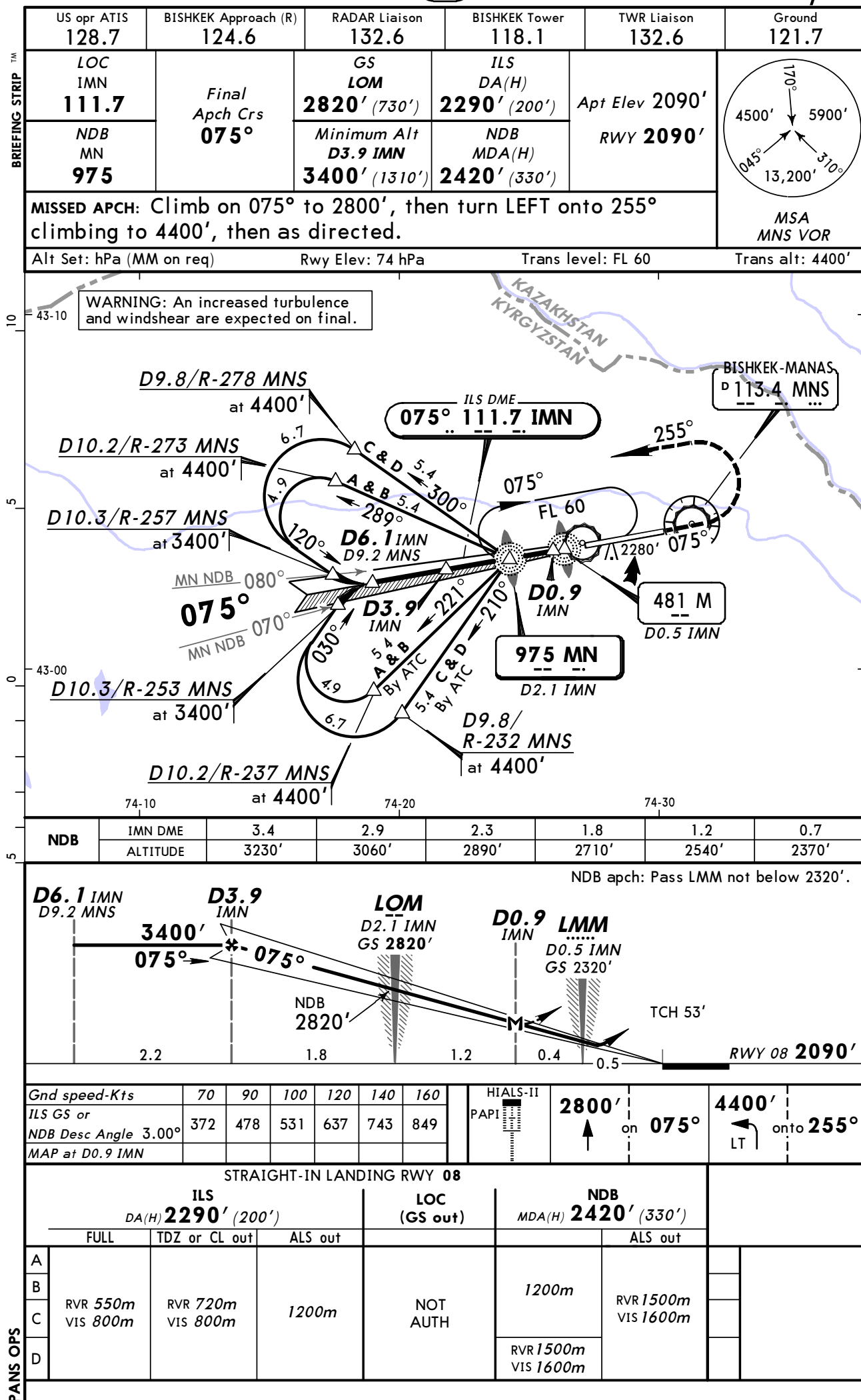
Marking of apron "Lima" is painted for taxiing of aircraft with a wingspan of 158'/48.1m or less.

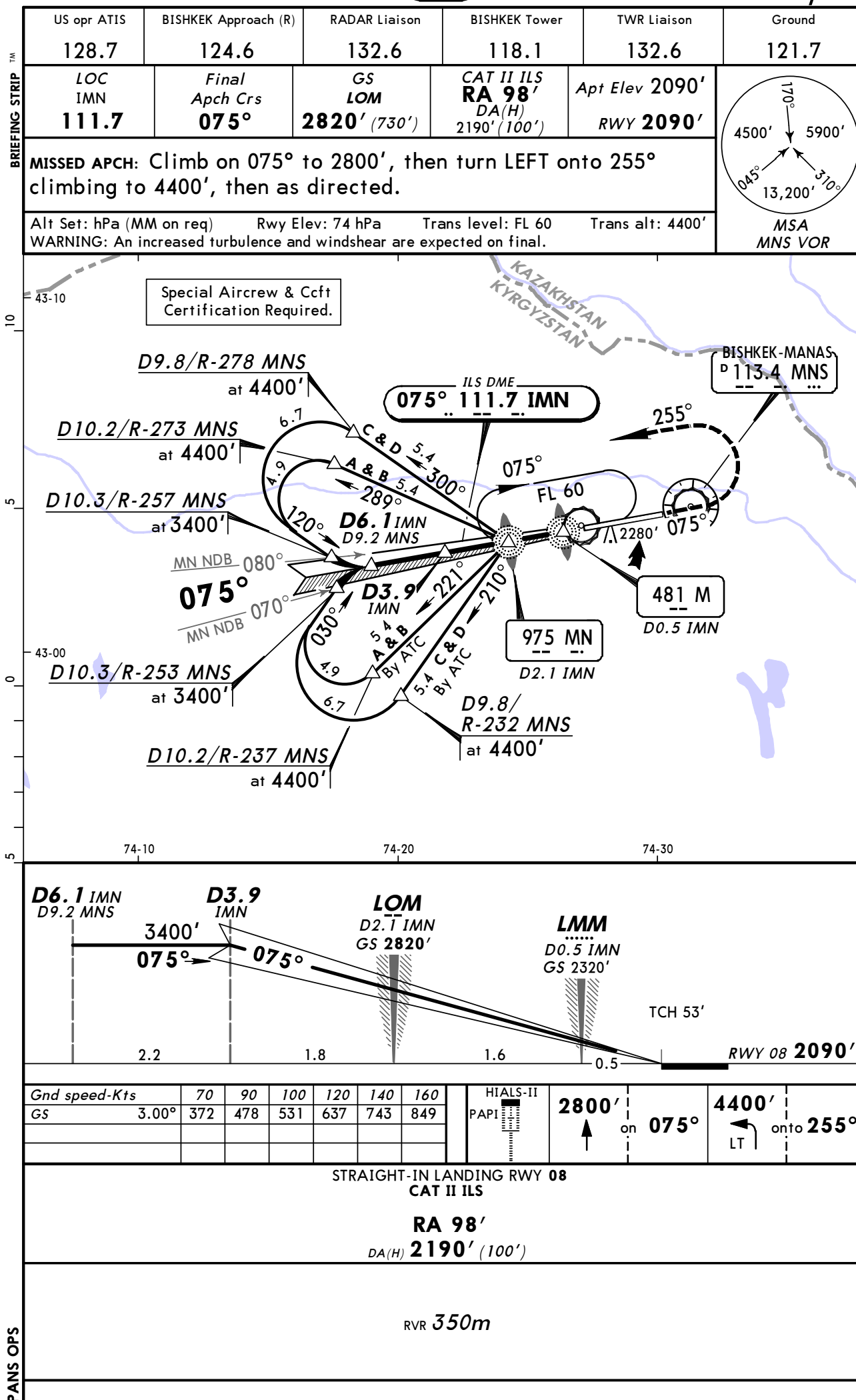
STRAIGHT-IN RWY		A	B	C	D
08	CAT 2 ILS	2190' (100') RA98' R350m	2190' (100') RA98' R350m	2190' (100') RA98' R350m	2190' (100') RA98' R350m
	ILS	2290' (200') R550m	2290' (200') R550m	2290' (200') R550m	2290' (200') R550m
	FULL	R750m	R750m	R750m	R750m
	Limited	R1200m	R1200m	R1200m	R1200m
	ALS out				
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ①	2420' (330') R800m	2420' (330') R800m	2420' (330') R800m	2420' (330') R800m
26	ALS out	R1500m	R1500m	R1500m	R1500m
	NDB ①	2420' (330') R800m	2420' (330') R800m	2420' (330') R800m	2420' (330') R800m
	ALS out	R1500m	R1500m	R1500m	R1500m
	CAT 2 ILS	2155' (100') RA98' R350m	2155' (100') RA98' R350m	2155' (100') RA98' R350m	2155' (100') RA98' R350m
	ILS	2255' (200') R550m	2255' (200') R550m	2255' (200') R550m	2255' (200') R550m
	FULL	R750m	R750m	R750m	R750m
	Limited	R1200m	R1200m	R1200m	R1200m
	ALS out				
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ①	2420' (365') R1000m	2420' (365') R1000m	2420' (365') R1000m	2420' (365') R1000m
	ALS out	R1500m	R1500m	R1700m	R1700m
	NDB ①	2400' (345') R900m	2400' (345') R900m	2400' (345') R900m	2400' (345') R900m
	ALS out	R1500m	R1500m	R1600m	R1600m

① Continuous Descent Final Approach

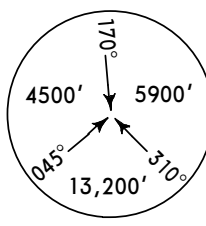
TAKE-OFF RWY 08, 26

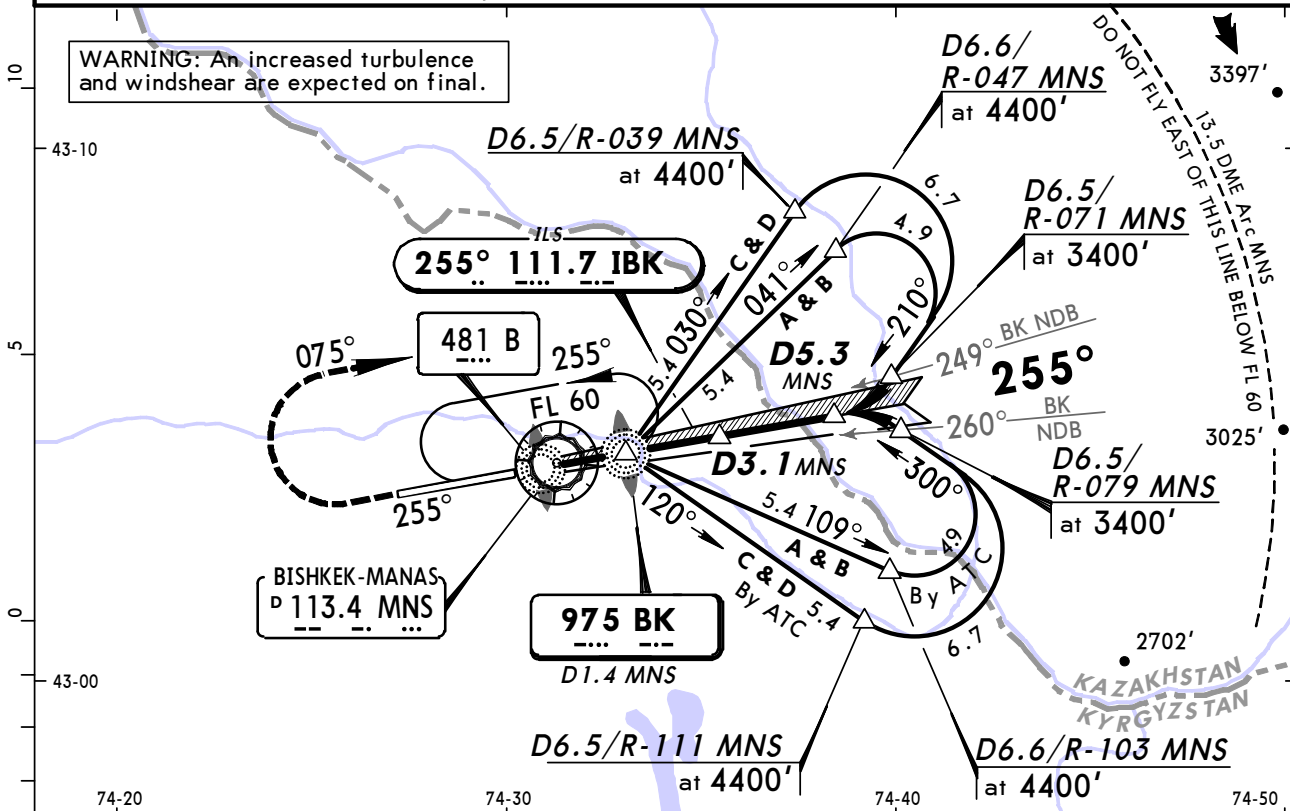
	Approved Operators HIRL, CL & mult. RVR req	LVP must be in Force			RCLM (DAY only) or RL	NIL (DAY only)
		RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL		
A						
B	125m	150m	200m	250m	400m	500m
C						
D	150m	200m	250m	300m		





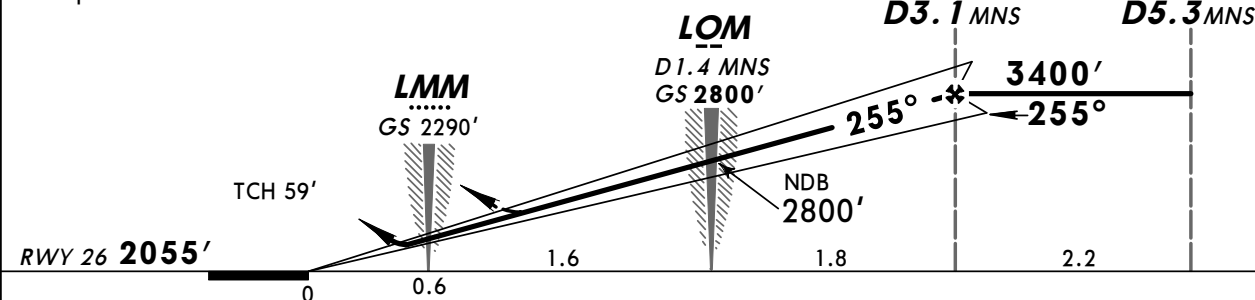
BRIEFING STRIP™

US opr ATIS 128.7	BISHKEK Approach (R) 124.6	RADAR Liaison 132.6	BISHKEK Tower 118.1	TWR Liaison 132.6	Ground 121.7
LOC IBK 111.7	Final Apch Crs 255°	GS LOM 2800' (745')	ILS DA(H) 2255' (200')	Apt Elev 2090' RWY 2055'	 MSA MNS VOR
NDB BK 975		Minimum Alt D3.1 MNS 3400' (1345')	NDB MDA(H) 2400' (345')		
MISSED APCH: Climb on 255° to 2800', then turn RIGHT onto 075° climbing to 4400', then as directed.					
Alt Set: hPa (MM on req)		Rwy Elev: 73 hPa	Trans level: FL 60		
Trans alt: 4400'					



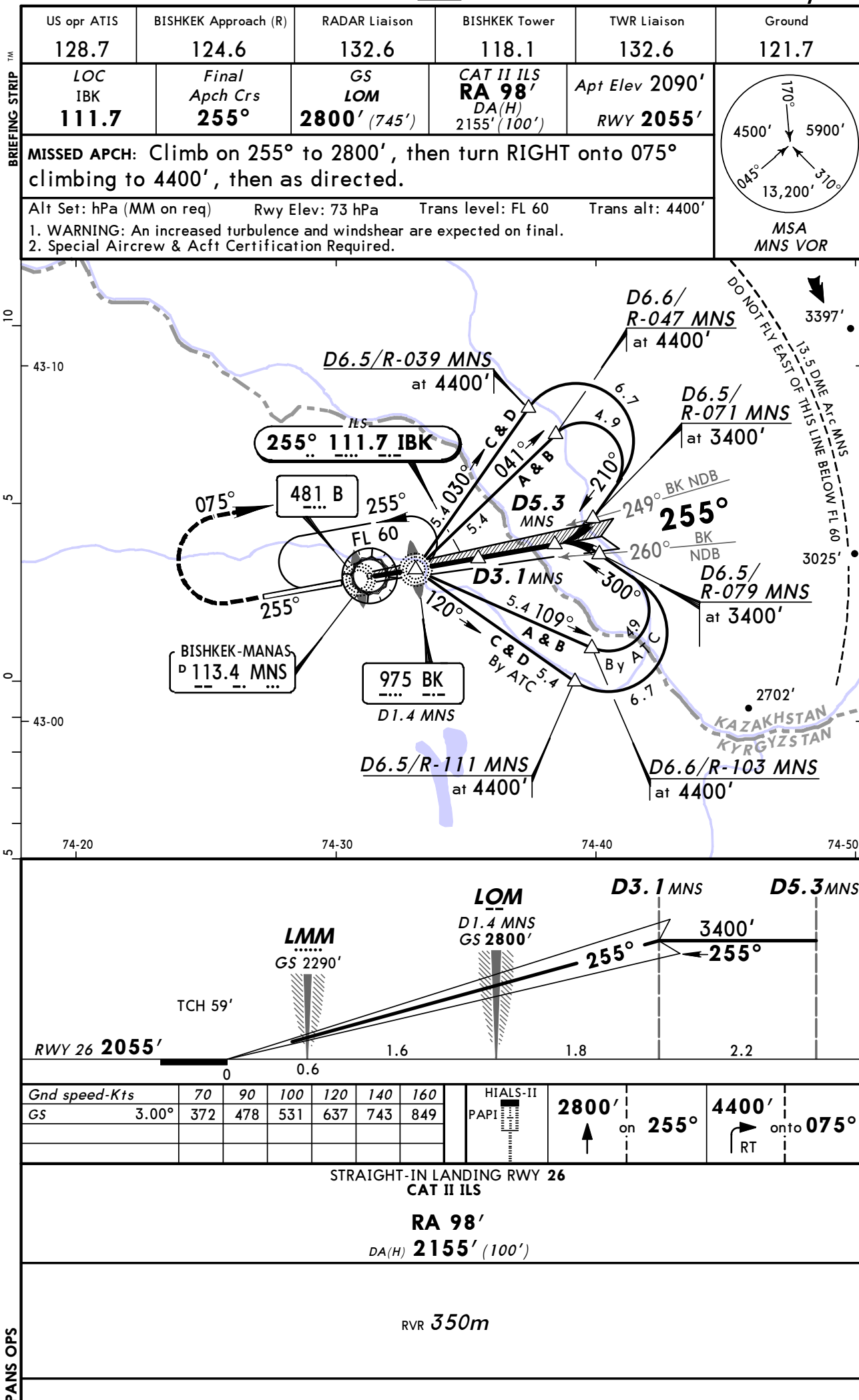
NDB	MNS DME	0.0	0.5	1.1	1.6	2.1	2.7
	ALTITUDE	2370'	2550'	2720'	2890'	3060'	3240'

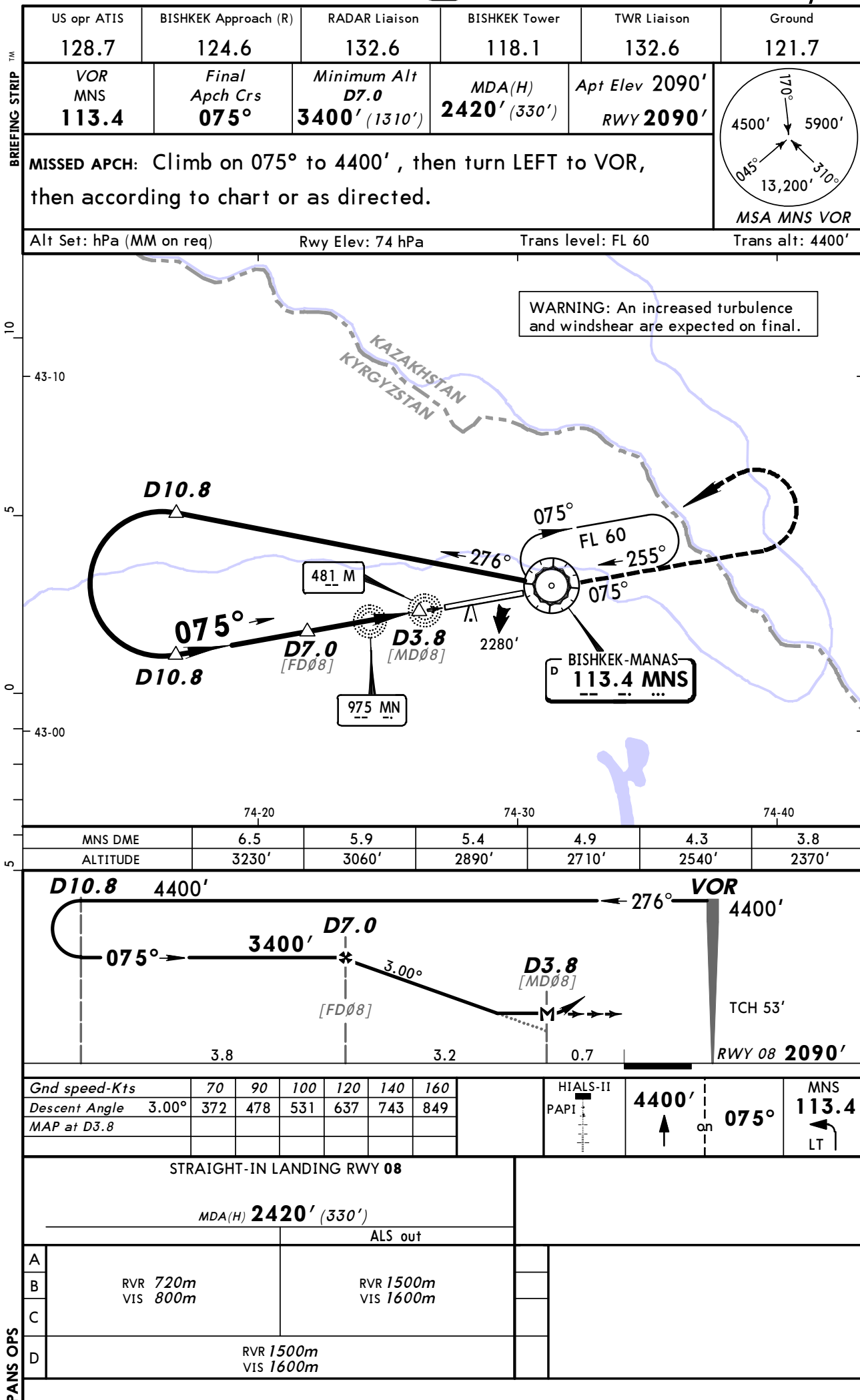
NDB apch: Pass LMM not below 2290'.



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI		2800'	on 255°	4400'	onto 075°
ILS GS or NDB Desc Angle 3.00°	372	478	531	637	743	849						

STRAIGHT-IN LANDING RWY 26								
ILS <i>DA(H)</i> 2255' (200')				LOC (GS out)	NDB <i>MDA(H)</i> 2400' (345')			
FULL		TDZ or CL out	ALS out			ALS out		
A	RVR 550m VIS 800m	RVR 720m VIS 800m	1200m	NOT AUTH		1200m	RVR 1500m VIS 1600m	
B								
C								
D						RVR 1500m VIS 1600m	RVR 1800m VIS 2000m	





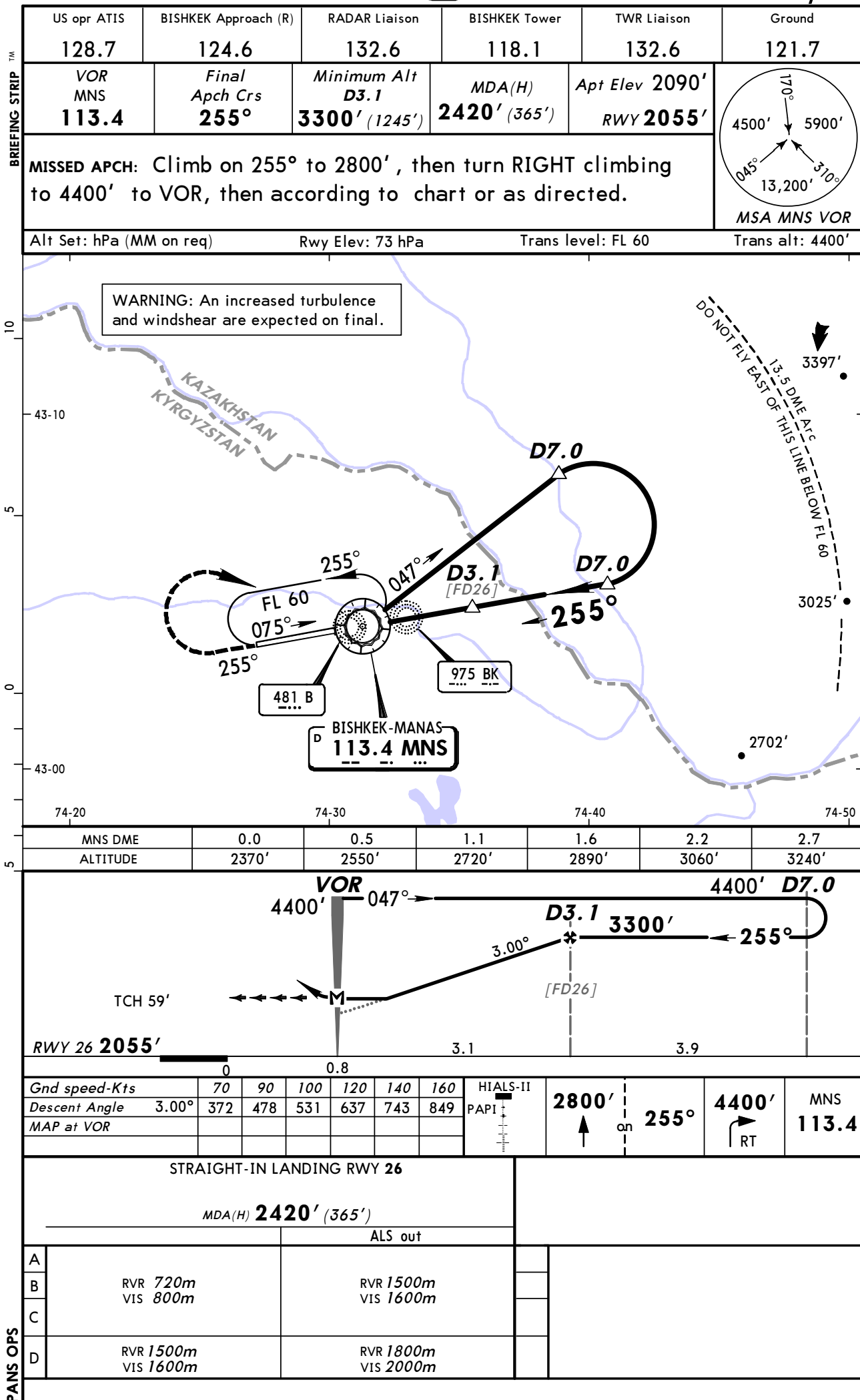




Chart changes since cycle 16-2013

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

ACT PROCEDURE IDENT

INDEX

REV DATE

EFF DATE

BISHKEK, (MANAS - UCFM)

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport UCFM