

List of pages in this Trip Kit

Trip Kit Index

Airport Information For UUEE

Terminal Charts For UUEE

Revision Letter For Cycle 25-2012

Change Notices

Notebook

General Information

Location: Moscow Rus
IATA Code: SVO
Lat/Long: N55° 58.3' E037° 24.8'
Elevation: 630 ft

Airport Use: Public
Magnetic Variation: 10.4°E

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

Sunrise: 0602 Z
Sunset: 1304 Z,

Runway Information

Runway: 07L
Length x Width: 11647 ft x 197 ft
Surface Type: concrete
TDZ-Elev: 620 ft
Lighting: Edge, ALS, Centerline

Runway: 07R
Length x Width: 12139 ft x 197 ft
Surface Type: concrete
TDZ-Elev: 619 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 25L
Length x Width: 12139 ft x 197 ft
Surface Type: concrete
TDZ-Elev: 621 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 25R
Length x Width: 11647 ft x 197 ft
Surface Type: concrete
TDZ-Elev: 622 ft
Lighting: Edge, ALS, Centerline, TDZ

Communication Information

ATIS 126.375 Non-English

ATIS 125.125

Sheremetyevo Precision Tower 131.5

Sheremetyevo Precision Tower 129.0 Secondary

Sheremetyevo Precision Tower 120.7

Sheremetyevo Ground 2 Ground Control 121.8

Sheremetyevo Ground 1 Ground Control 129.0 Secondary

Sheremetyevo Ground 1 Ground Control 119.0

Aeroflot Apron Ground Control 123.95

Sheremetyevo Apron Ramp/Taxi Control 123.6

Sheremetyevo Apron Ramp/Taxi Control 121.9

Sheremetyevo-Approach-2 Approach Control 124.4 Secondary

Sheremetyevo-Approach-2 Approach Control 123.7

Sheremetyevo-Approach-1 Approach Control 129.0 Secondary

Sheremetyevo-Approach-1 Approach Control 119.3

Sheremetyevo Radar 124.4

Sheremetyevo Radar 119.45 Secondary

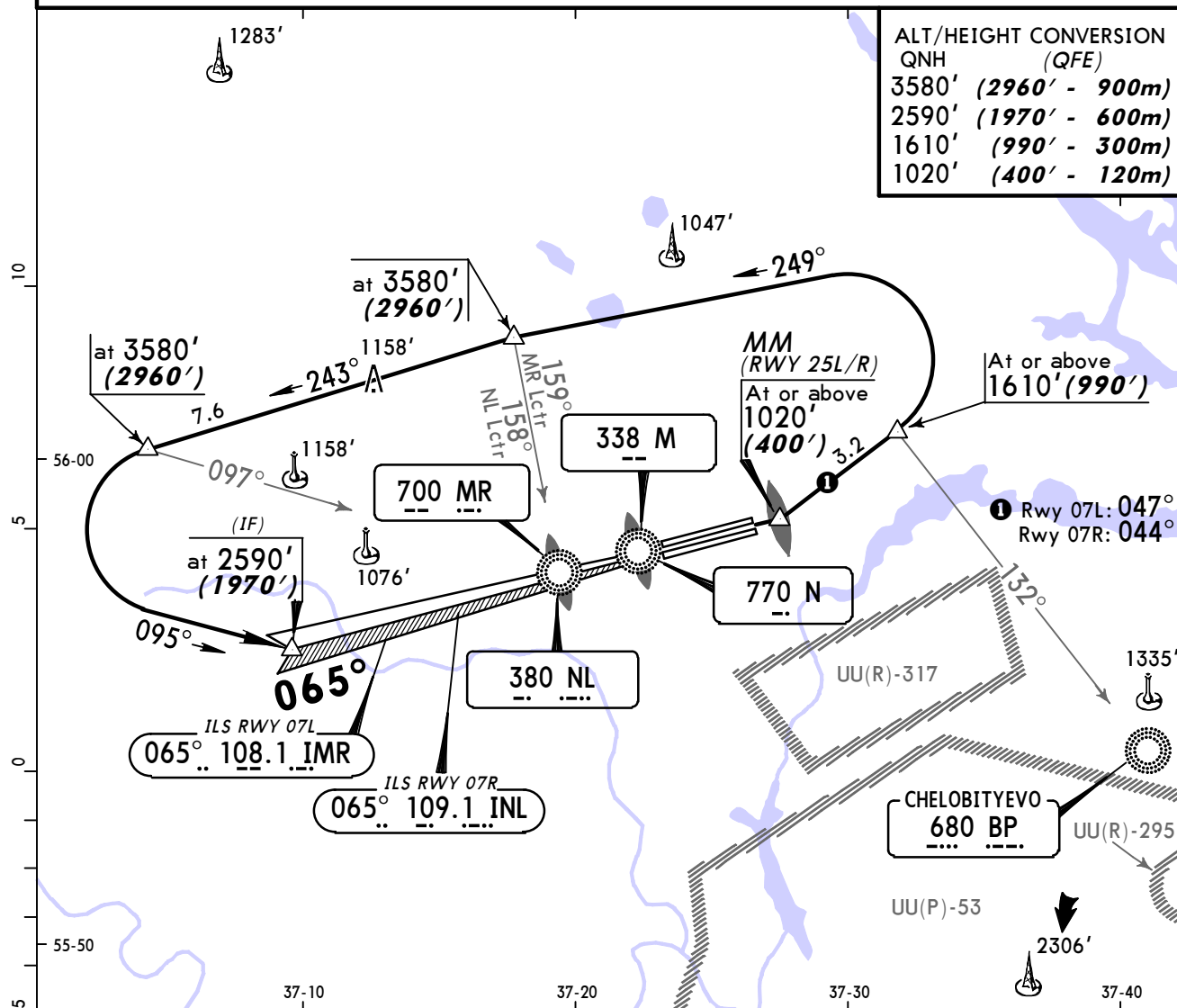
Sheremetyevo Radar 118.1

Sheremetyevo II - Transit Operations 130.35 Non-English

Sheremetyevo II (Cargo) - Operations 134.55 Non-English

Sheremetyevo I - Transit Operations 130.65 Non-English

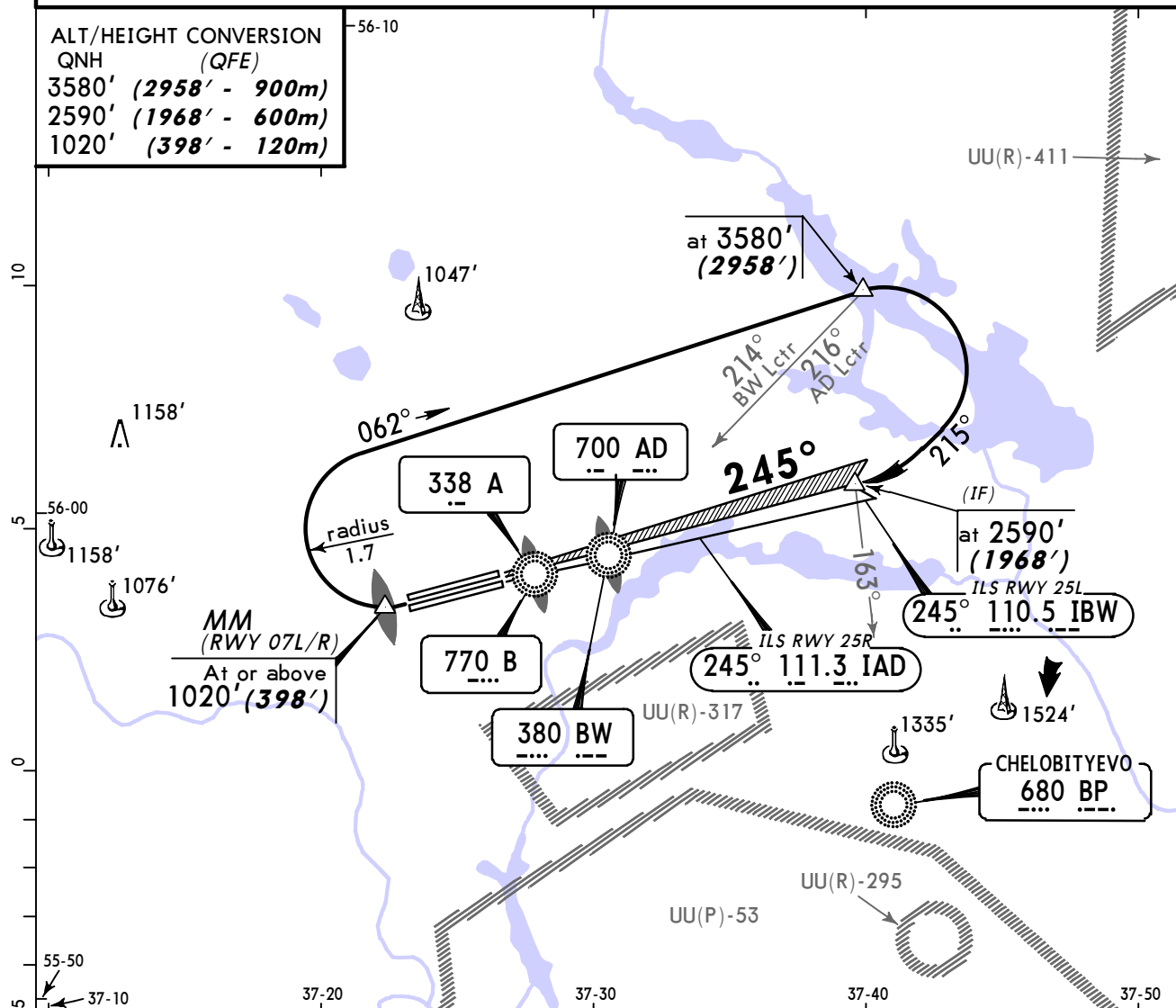
PROCEDURES TO BE USED IN THE EVENT OF RADIO
FAILURE AFTER TAKE-OFF



For profile and minimums Rwy 07L refer to 21-1 and 26-1.
For profile and minimums Rwy 07R refer to 21-2, 21-2A and 26-2.

PROCEDURES TO BE USED IN THE EVENT OF RADIO
FAILURE AFTER TAKE-OFF

ALT/HEIGHT CONVERSION	
QNH	(QFE)
3580' (2958' - 900m)	
2590' (1968' - 600m)	
1020' (398' - 120m)	



For profile and minimums Rwy 25L refer to 21-3, 21-3A and 26-3.
For profile and minimums Rwy 25R refer to 21-4, 21-4A and 26-4.

1. GENERAL

1.1. ATIS

ATIS 125.12
126.37 (Russian)

1.2. NOISE ABATEMENT PROCEDURES**1.2.1. GENERAL**

Noise abatement procedures shall be executed by all ACFT.

1.3. LOW VISIBILITY PROCEDURES (LVP)**1.3.1 GENERAL**

LVP shall be applied when RVR is less than 400m. Pilots will be informed about the beginning of the procedure application via ATIS or by ATC.

1.3.2. ARRIVAL

After landing the crew must report to Tower about the vacation of the RWY and the ILS critical area, when the ACFT crosses the line of double yellow omnidirectional lights, located on both sides of TWY adjoining the RWY and designating the boundary of ILS critical area.

After landing arriving ACFT shall be met by Follow-me car on TWY joining the RWY.

The following standard taxiing routes are established for ACFT after landing:

- for Terminals **B, C apron**

RWY 07R, TWY 15, TWY 5, Main TWY 1, TWY (7, 8, 10, 16, 17, 18, 19, 20), stand.

RWY 25R, TWY 1, Main TWY 1, TWY (7, 8, 10, 16, 17, 18, 19, 20), stand.

- for Terminal **D apron**:

RWY 07R, TWY 26, Main TWY 2, TWY (33, 34, 35), stand.

RWY 25R, TWY 11, TWY 21, Main TWY 2, TWY (33, 34, 35), stand.

- for Terminals **E, F apron**

RWY 07R, TWY 26, Main TWY 2, TWY (27, 27.1, 28, 30, 31, 32), stand.

RWY 25R, TWY 11, TWY 21, Main TWY 2, TWY (27, 27.1, 28, 30, 31, 32), stand.

1.3.3. START-UP & TAXIING

Pilots shall request start-up clearance when ready for start-up indicating the number of stand (apron).

Clearance for towing and taxiing out of stand shall be requested when ACFT is ready to carry it out immediately.

The following standard taxiing routes are established for departing ACFT:

- for Terminal **B, C apron**

Stand, TWY (7, 8, 10, 16, 17, 18, 19), Main TWY 1, TWY 1, RWY 07L.

Stand, TWY (7, 8, 10, 16, 17, 18, 19), Main TWY 1, TWY 1, TWY 11, RWY 07R.

Stand, TWY (7, 8, 10, 16, 17, 18, 19), Main TWY 1, TWY 5, TWY 15, RWY 25L.

Stand, TWY (7, 8, 10, 16, 17, 18, 19), Main TWY 1, TWY 5, RWY 25R.

- for Terminal **D apron**:

Stand, TWY (33, 34, 35), Main TWY 2, TWY 21, TWY 11, RWY 07L.

Stand, TWY (33, 34, 35), Main TWY 2, TWY 21, RWY 07R.

Stand, TWY (33, 34, 35), Main TWY 2, TWY 26, RWY 25L.

Stand, TWY (33, 34, 35), Main TWY 2, TWY 26, TWY 15, RWY 25R.

- for Terminal **E, F apron**

Stand, TWY (27, 27.1, 28, 30, 31, 32), Main TWY 2, TWY 21, TWY 11, RWY 07L.

Stand, TWY (27, 27.1, 28, 30, 31, 32), Main TWY 2, TWY 21, RWY 07R.

Stand, TWY (27, 27.1, 28, 30, 31, 32), Main TWY 2, TWY 26, RWY 25L.

Stand, TWY (27, 27.1, 28, 30, 31, 32), Main TWY 2, TWY 26, TWY 15, RWY 25R.

1.3.4. DEPARTURE

It is prohibited to cross the RWY holding position line (ILS critical area) marked by double red omnidirectional lights and the prescribed DAY marking on TWYs 1 thru 5 and the RWY holding position line marked by magnetic course signs and the prescribed day marking on TWY 11 thru 15 and 21 thru 24, 26 without Tower clearance.

1. GENERAL

1.4. RWY OPERATIONS

1.4.1. PROCEDURES UNDER VMC

The procedure of flight operations under VMC shall be applied for the purpose of providing speed-up and maintaining the well-ordered air traffic flow.

The procedure shall be applied when visibility value is not less than 3000m and ceiling is not less than 990'.

When this procedure is applied, the following is possible:

- TORA: 9843'/3000m
- LDA: 9843'/3000m

Flight crews will get to know about the implementation of the limitation from ATIS or ATC. This limitation is not applied for ACFT of "HEAVY CAT" as well as for ACFT which has declared about the necessity to use full length of the RWY.

- Occupation of the marked RWY holding positions at the RWY of landing, located in ILS critical area, by permission of Tower controller.
- Crossing the RWY of landing when an ACFT is on final by the permission of Tower controller. In this case the RWY must be vacated by the moment of passing LMM by landing ACFT.

1.5. TAXI PROCEDURES

It is prohibited to occupy the main TWY without permission of Ground controller. Taxiing in front of Terminal B West sector stands 79 thru 91 MAX wingspan 126'/38.5m.

Taxiing in front of Cargo stands MAX wingspan 198'/60.5m.

Taxiroute between Terminal D stand 32 and Terminal E stand 33 MAX wingspan 213'/65m.

7'/2m distance between taxiing ACFT and marking of routes for special motor transport is not maintained on Terminal B, C, E and F aprons.

Use of TWY 20 by towing only, except B747-400 ACFT.

Taxiing of B747-8 ACFT allowed strictly along centerline under inner engines power at reduced speed behind follow-me car:

- with MAX 396t on MAIN TWY 1, TWY 1 thru 5, 7, 11 thru 15 and 18 thru 20.
- with more than 396t for take-off from RWYs 07L/R on MAIN TWY 1, TWY 1 and 11; from RWY 25L on MAIN TWY 1, TWY 4, 14, 24, MAIN TWY 2 and TWY 26; from RWY 25R on MAIN TWY 1, TWY 4 and RWY 25R. Carry out a turn at RWY extremity (the time of RWY occupation is not more than 5 min).

Taxiing of A380 ACFT allowed on MAIN TWY 2, TWY 11 thru 15 and 22 thru 24 strictly along centerline under outboard engines power at reduced speed behind follow-me car.

1.6. PARKING INFORMATION

Terminal C stands 28 thru 30B, Terminal D stands 11 thru 32 and Terminal E stands 33 thru 38 equipped with visual docking guidance system SAFEDOCK.

Terminal F stands 39 thru 53 equipped with visual docking guidance system AGNIS.

Recommended taxispeed MAX 5.3 KT/10 kmh.

Taxiing into stands, not equipped with parking system, shall be carried out by instruction of duty officer escorting the ACFT.

Use of Terminal B West sector stands, Terminal F stands 64 thru 76 and Cargo stands by towing.

Enter Terminal F stand 63 by towing.

Exit Terminal D stands 1 thru 7 and 11 thru 32, Terminal E stands 33 thru 38, Terminal F stands 5 thru 21 and 59 thru 62 by towing.

Enter and exit Terminal F Cargo stands 78A, 80A, 83A and 85A by towing.

1. GENERAL

1.7. OTHER INFORMATION

Birds in vicinity of APT.

2. ARRIVAL

2.1. NOISE ABATEMENT PROCEDURES

Crews shall maintain the prescribed STAR routes, and, in case of deviation from them, join the assigned track immediately. If special meteorological conditions are present in arrival and approach sectors, the flight crew can deviate from STAR route with mandatory report about it to ATC.

Limitations

Immediately prior to the final approach pilots should avoid excessive rates of descent. Change of flight configuration and speed shall be carried out according to the requirements of the Airplane Flight Manual. During instrument as well as visual approach it is not allowed to fly below ILS GS. Noise abatement procedures shall not envisage the increasing of indicated rate of descent. A displacement of THR shall not be used as a noise abatement measure. 'AIR GROUND' communication shall be reduced to absolute minimum.

RWYS 07L/R approach

When reaching 13.5NM from THR, pilots must conduct the flight at 3590' (2960') maintaining 210 KT and flight direction enabling to intercept ILS LOC operational area providing RWYs 07L/R approach-to-land. At a distance of 11.9NM reduce speed from 210 KT to 185 KT +/- 10 KT to intercept ILS LOC at 7.6NM from THR descending to 2600' (1970'). Intercept GS at 2280' (1650'). Pilots shall continue to reduce speed in order to reach 4.3NM from THR at 2110' (1480') and at a rate of 155 KT. Thereafter speed shall be maintained as per Airplane Flight Manual.

2.2. CAT II/III OPERATIONS

RWY 25L approved for CAT II operations and RWYs 07R and 25R approved for CAT II/III operations, special aircrew and ACFT certification required.

2.3. RWY OPERATIONS

2.3.1. MINIMUM RWY OCCUPANCY TIME

After landing the flight crew is not obliged to report Tower controller about landing and vacation of the RWY unless such instruction is received. The flight crew shall plan the vacation of the RWY along the nearest TWY (or along the TWY recommended by the controller) if a safe turn-off of ACFT is guaranteed. If for some reasons the flight crew cannot vacate the RWY along the nearest TWY, then it must be reported to Tower controller.

2.3.2 MINIMUM REDUCED SEPARATION ON THE SAME RWY

The separation intervals shall not be less than the following minimums:

The succeeding landing ACFT can cross the RWY THR when:

- the preceding ACFT has carried out landing and passed the point located at a distance of not less than 8202'/2500m from the RWY THR, is in movement and shall vacate the RWY without backtracking, or
- the departing ACFT is airborne and has passed the point located at a distance of at least 8202'/2500m from the RWY THR.

2.4. TAXI PROCEDURES

Enter aprons with Follow-me car.

3. DEPARTURE

3.1. DE-ICING

Start-up positions P and T are available for de-icing for ACFT with MAX wingspan up to 131'/40m.

Start-up positions N1 and M1 are available for de-icing for ACFT with MAX wingspan up to 213'/64.8m.

De-icing pad E MAX wingspan 158'/48.1m.

De-icing pad H MAX wingspan 211'/64.4m.

3.2. PUSH-BACK & TAXI PROCEDURES

Request permission for towing when ACFT is completely ready for towing, including stand number and reception of valid ATIS information.

It is prohibited to occupy RWY holding position on TWYs 21 and 26 without permission from Tower, regardless of meteorological conditions.

3.3. NOISE ABATEMENT PROCEDURES

TAKE-OFF AND CLIMBING PHASE

Noise abatement procedures shall not be executed at the expense of reduction of flight safety and in case of engine failure during take-off.

RWYs 07L/R are noise preferential and shall be used to the greatest extent possible.

Restrictions

Take-off with tailwind component up to 5 m/sec is allowed under following conditions:

- RWY is dry or damp;
- friction coefficient is 0.5 or more;
- crosswind component is not more than 5 m/sec.

After take-off from RWY 25R the ACFT shall proceed on take-off heading to back course MKR to 1030' (400'), then climb with maximum possible climb gradient according to the Aeroplane Flight Manual of the given ACFT type, turn RIGHT (radius 1.7NM) onto the assigned track to proceed to BESTA (KN, AR, UM, DEDUM). It is strictly prohibited, unless it is required for flight safety of further continuation of a flight, to reduce the 340° track until crossing 218° bearing to UM.

After take-off from RWY 25L the ACFT shall proceed on take-off heading to back course MKR to 1030' (400'), then proceed on 245° track to 165° bearing to KS climbing to 2600' (1970') with maximum possible climb gradient according to the Aeroplane Flight Manual of the given ACFT type, turn RIGHT onto 269° track to proceed to DEDUM, UM, AR, KN, BESTA.

After take-off from RWY 07L the ACFT shall proceed on take-off heading to back course MKR to 1030' (400'), turn LEFT onto 044° track, proceed with maximum possible climb gradient according to the Aeroplane Flight Manual of the given ACFT type to 132° bearing to BP at or above 1620' (990'), proceed to BESTA, KN, AR, UM, DEDUM.

After take-off from RWY 07R the ACFT shall proceed on take-off heading to back course MKR to 1030' (400'), then climb with maximum possible climb gradient according to the Aeroplane Flight Manual of the given ACFT type (7%) to 3590' (2960'), proceed to BESTA, DEDUM, UM, AR, KN.

Changing of flight direction after take-off is permitted only after reaching 1030' (400') and passing back course MKR.

Turns from 1030' (400') to 1620' (990') shall be executed with a bank angle not exceeding 15°, from 1620' (990') to 3590' (2960') with a bank angle of 20° and from 3590' (2960') with a bank angle of 25° or with angular rate of turn 3°/sec.

3. DEPARTURE

Noise Abatement Procedures NADP1 and NADP2

Two variants of take-off and climb procedures are applied: NADP1 and NADP2 (ICAO Doc 8168, Volume 1, Part V, Chapter 3).

For both procedures, intermediate flap transitions required for specific performance-related issues may be initiated prior to the prescribed minimum altitude of 1420' (790'); however, no power reduction can be initiated prior to attaining the prescribed minimum altitude.

The indicated airspeed for the initial climb portion of the departure prior to the acceleration segment is to be flown at a climb speed of $V_2 + (10-20 \text{ KT})$.

3.4. RUNWAY OPERATIONS

3.4.1. MINIMUM RWY OCCUPANCY TIME

After the change over to Tower controller the flight crew shall monitor this frequency without calling the controller (except LVP procedures) and shall carry out taxiing to the RWY holding position. In all cases during taxiing along MAIN TWY 2 the flight crew must be ready to stop at CAT II or CAT III marking sign and to receive further instructions and permissions from Tower controller.

When making decisions, Tower controller is based on the fact that the flight crew of the ACFT, which is at the RWY holding position, is ready for departure without delay. The flight crew must advise if it requires additional time for preparation. For the purpose of movement speed-up the clearance for immediate take-off can be issued for the flight crew. After receiving such clearance the flight crew shall taxi onto the RWY and take-off without stopping the movement using following phraseology:

"ACFT call sign + surface wind (direction and speed) + RWY (number) + Cleared to line up and immediate take-off. "

Example: "AFL 128 surface wind 110 degrees, 10 m/s, cleared to line up and take-off RWY 25R. "

The execution of take-off immediately after lining up can be required on the basis of the air and ground situation. In this case Tower controller can give the instructions to line up and be ready for the immediate take-off using the following phraseology:

"ACFT call sign + surface wind (direction and speed) + RWY (number) + Cleared to line up and be ready for immediate departure. "

Example: "AFL 128 surface wind 110 degrees, 10 m/s, line up RWY 25R, be ready for immediate departure. "

If unable to follow this instruction, the flight crew shall report it to Tower controller.

The instruction to line up and take off shall be carried out by the flight crew without delay. If unable to line up the flight crew shall inform Tower controller about it prior to lining up.

If the flight crew is ready for take-off not from the RWY beginning (from intersection of TWY 2, 12, 22, 4, 14, 24 with the RWY), the flight crew must report it to the controller in good time.

The checks, which must be carried out during the stay on the RWY, must be reduced to a minimum.

After confirmation of the take-off clearance by the flight crew, Tower controller anticipates that the ACFT will commence movement within 20 seconds.

3.4.2. MINIMUM REDUCED SEPARATION ON THE SAME RWY

The separation intervals shall not be less than the following minimums:

- The flight crew can be given a take-off clearance when the preceding departing ACFT is airborne, carries out another departure procedure and has passed the point located at a distance of at least 9843'/3000m from the succeeding ACFT.

TRANSITION DESIGNATION	REFER TO CHART
BOGDANOVO 1E, LARIONOVO 1E, 2E	20-2B
GAGARIN 1E, OKTYABRSKIY 1E, SUKHOTINO 1E	20-2C
ATRUN 1E, 2E, NAMIN 1E, 2E	20-2D

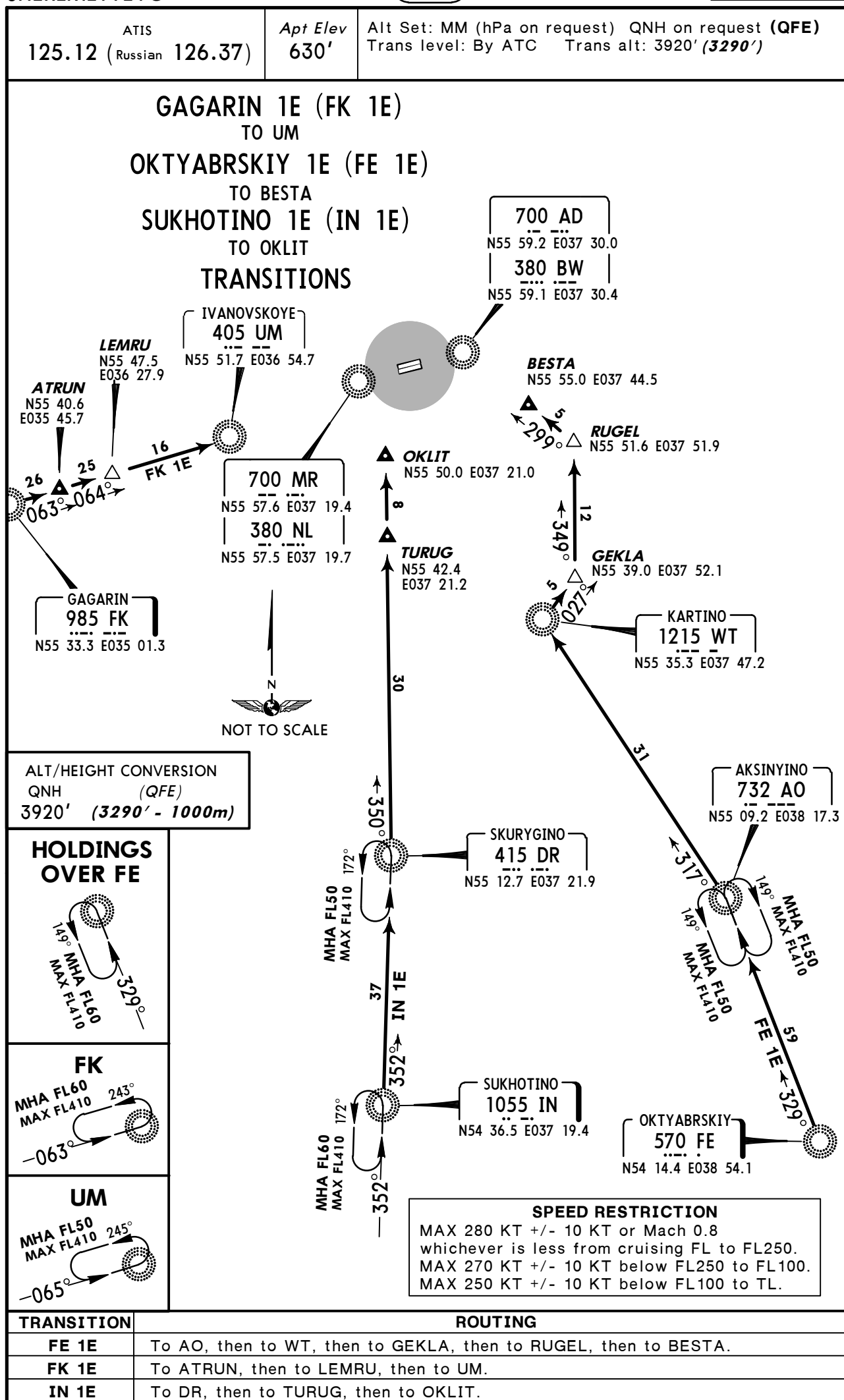
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RNAV STAR DESIGNATION	REFER TO CHART
BESTA 07, 1G	20-2F
BESTA 25, DEDUM 25, 2G	20-2G
LATBI 07A, 1G	20-2H
LATBI 07G, 5G	20-2J
LATBI 25A	20-2K
LATBI 25G, 2G	20-2L
OKLIT 07, 1G, IVANOVSKOYE 07	20-2M
OKLIT 25, 2G, IVANOVSKOYE 25, 2G	20-2N
SAVELOVO 07B, 1G, 07G	20-2P
SAVELOVO 25, 2G	20-2Q

FOR STAR DESIGNATION REFER TO PAGE 20-2A

STAR DESIGNATION	REFER TO CHART
BESTA 07B, 07C	20-2S
BESTA 25A, 25B, 25C	20-2T
DEDUM 07A, 07B, 07C	20-2U
DEDUM 25B, 25C	20-2V
DIPAT 25A	20-2V1
GINAP 07B, 07C	20-2V2
GINAP 25A, 25B, 25C	20-2W
IVANOVSKOYE 07A, 07B, 07C	20-2X
IVANOVSKOYE 25B, 25C	20-2X1
LATBI 07B, 07C	20-2X2
LATBI 25B, 25C	20-2X3
OKLIT 07A, 07B, 07C	20-2X4
OKLIT 25B, 25C	20-2X5
SAVELOVO 07A, 07C	20-2X6
SAVELOVO 25A, 25C	20-2X7
COMMUNICATION FAILURE	20-2X8

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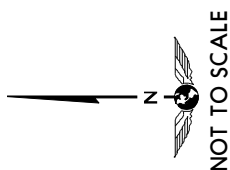
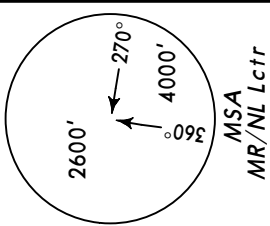


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ATIS
125.12 (Russian 126.37)

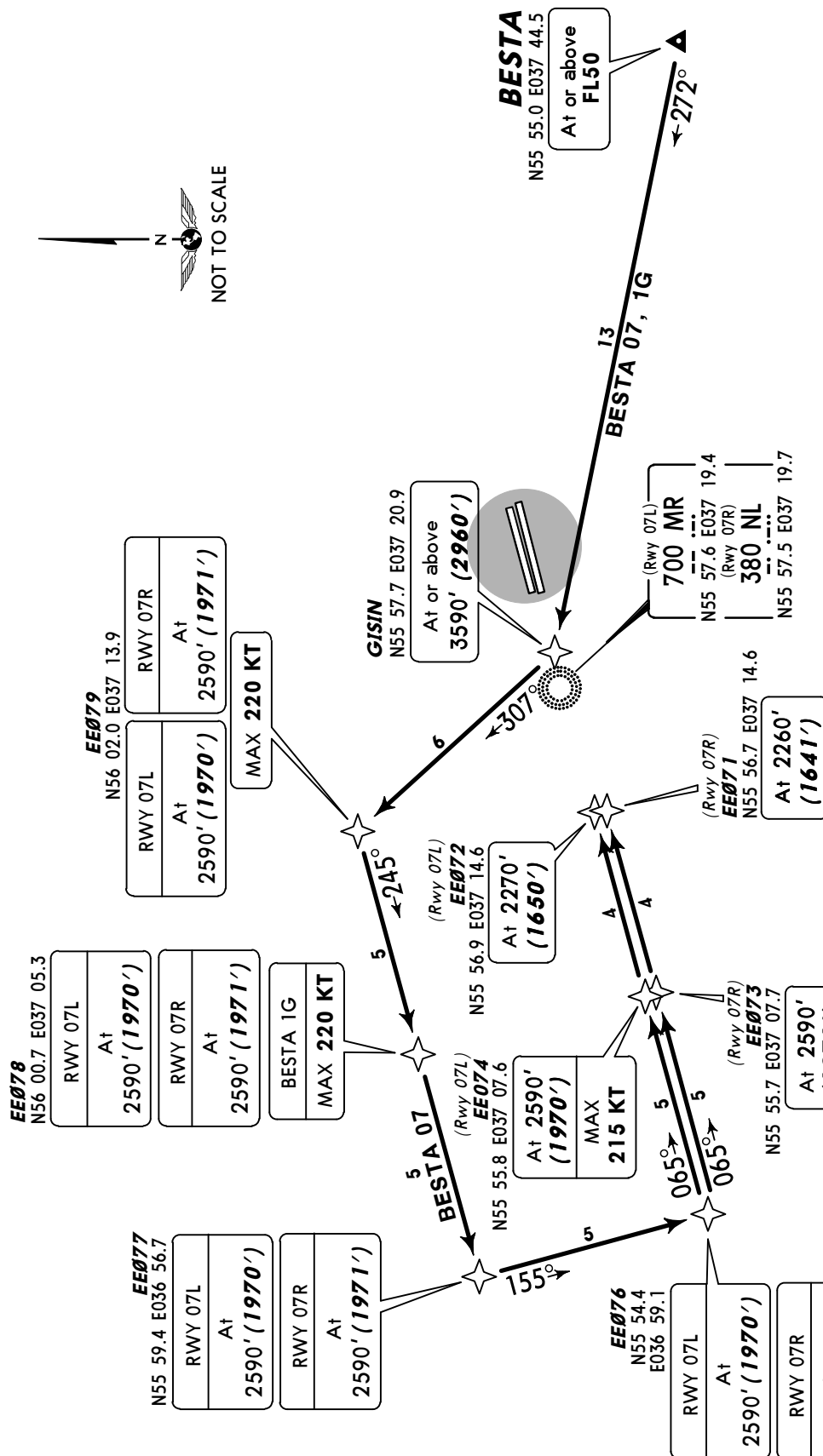
Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.



**BESTA 07 [BEST07]
BESTA 1G [BEST1G]
RWYS 07L/R RNAV ARRIVALS**
SPEED: MAX 250 KT +/- 10 KT BELOW FL100 TO TL

① RWY 07L
② RWY 07R



ALT/HEIGHT CONVERSION	
QNH	(QFE)
3920'	(3290' - 1000m)
3590'	(2960' - 900m)
① 2590'	(1970' - 600m)
② 2590'	(1971' - 600m)
① 2270'	(1650' - 500m)
② 2260'	(1641' - 500m)

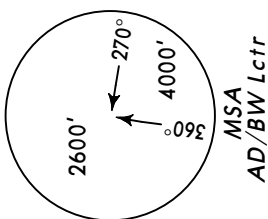
ROUTING

STAR	ROUTING
BESTA 07	BESTA (FL50+) - GISIN (3590'+) - EE079 (2590'; K220-) - EE078 (2590') - EE077 (2590') - EE076 (2590') - EE074 (07L; 2590'; K215-)/EE073 (07R; 2590; K215-) - EE072 (07L; 2270')/EE071 (07R; 2260').
BESTA 1G	BESTA (FL50+) - GISIN (3590'+) - EE079 (2590'; K220-) - EE078 (2590'; K220-).

ATIS
125.12 (Russian 126.37)

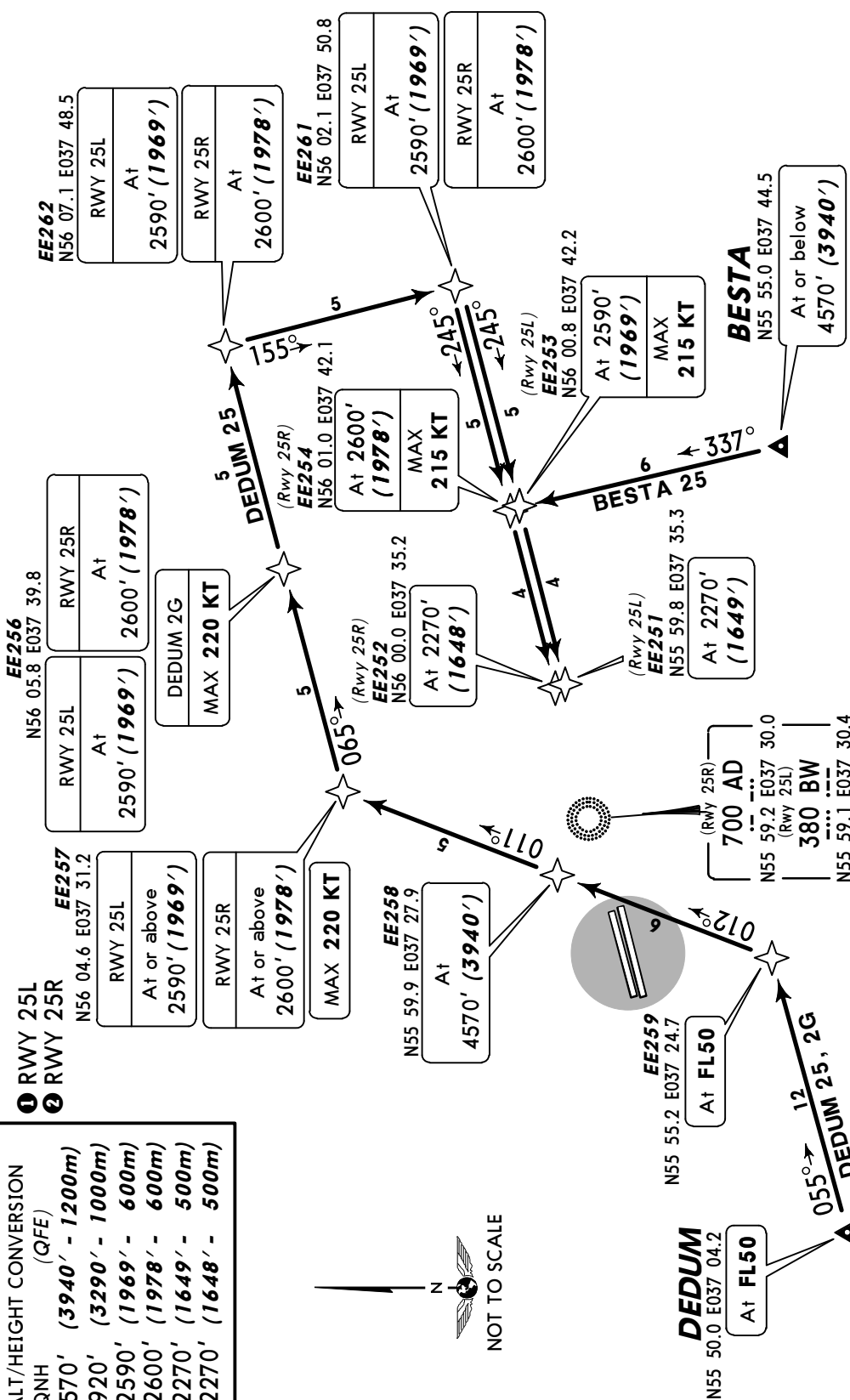
Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.



BESTA 25 [BEST25]
DEDUM 25 [DEDU25], DEDUM 2G [DEDU2G]
RWYS 25L/R RNAV ARRIVALS

SPEED: MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ROUTING	
STAR	
BESTA 25	BESTA (4570' -) - EE254 (25R; 2600'; K215-) / EE253 (25L; 2590'; K215-) - EE251 (25L; 2270') / EE252 (25R; 2270').
DEDUM 25	DEDUM (FL50) - EE259 (FL50) - EE258 (4570) - EE257 (25L; 2590' + / 25R 2600' + / K220-) - EE256 (25L; 2590' / 25R 2600') - EE262 (25L; 2590' / 25R; 2600') - EE261 (25L; 2590' / 25R; 2600') - EE254 (25R; 2600'; K215-) / EE253 (25L; 2590' / K215-) - EE251 (25L; 2270') / EE252 (25R; 2270').
DEDUM 2G	DEDUM (FL50) - EE259 (FL50) - EE258 (4570') - EE257 (25L; 2590' + / 25R; 2600' + / K220-) - EE256 (25L; 2590' / 25R; 2600' / K220-).

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ATIS
125.12 (Russian 126.37)

Apt Elev
630'

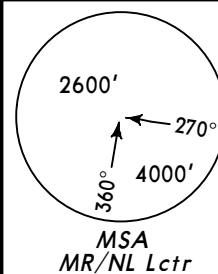
Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

LATBI 07G [LAT07G]

LATBI 5G [LATB5G]

RWYS 07L/R RNAV ARRIVALS

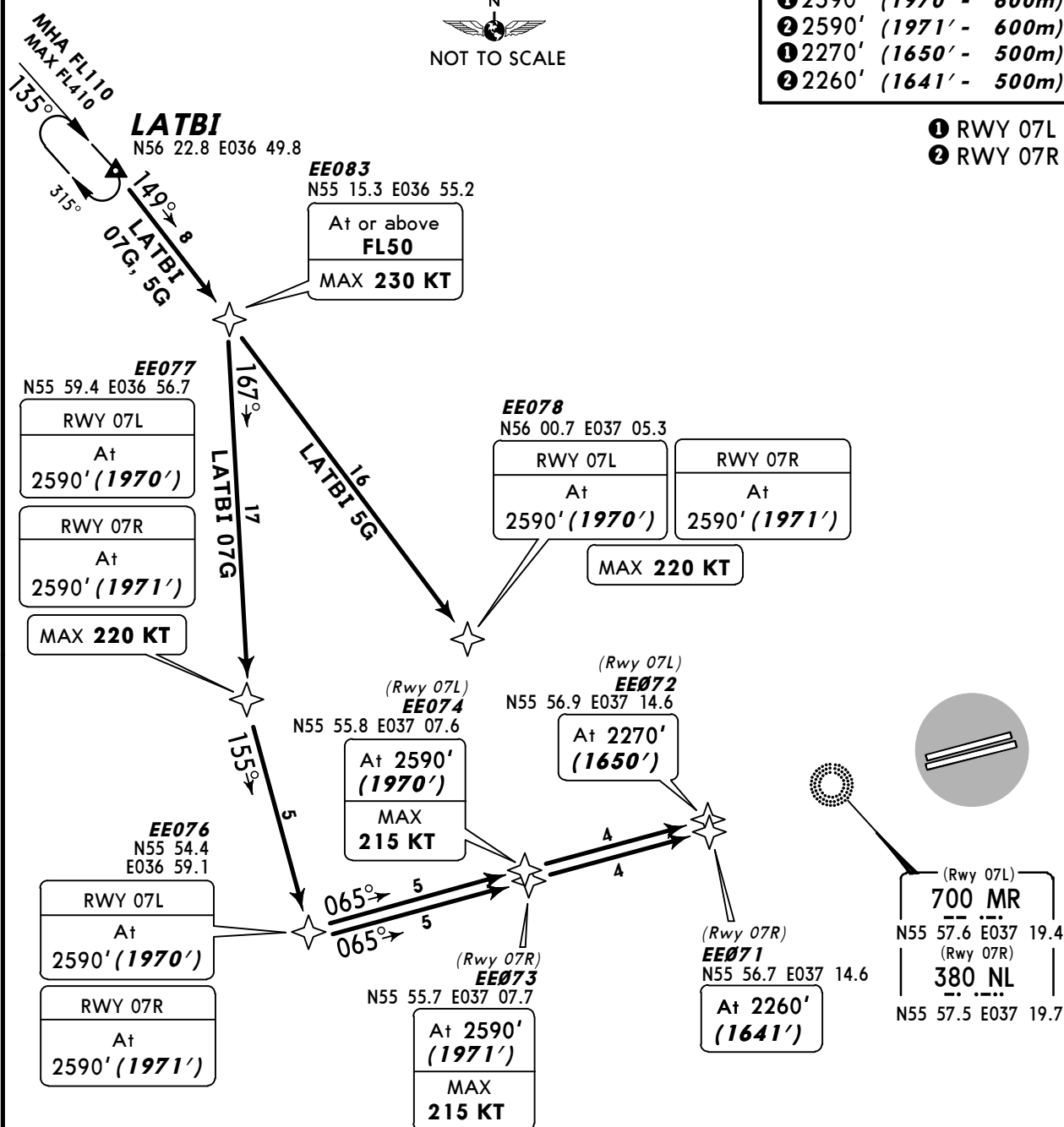
~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION

QNH	(QFE)
3920'	(3290' - 1000m)
① 2590'	(1970' - 600m)
② 2590'	(1971' - 600m)
① 2270'	(1650' - 500m)
② 2260'	(1641' - 500m)

- ① RWY 07L
- ② RWY 07R



STAR

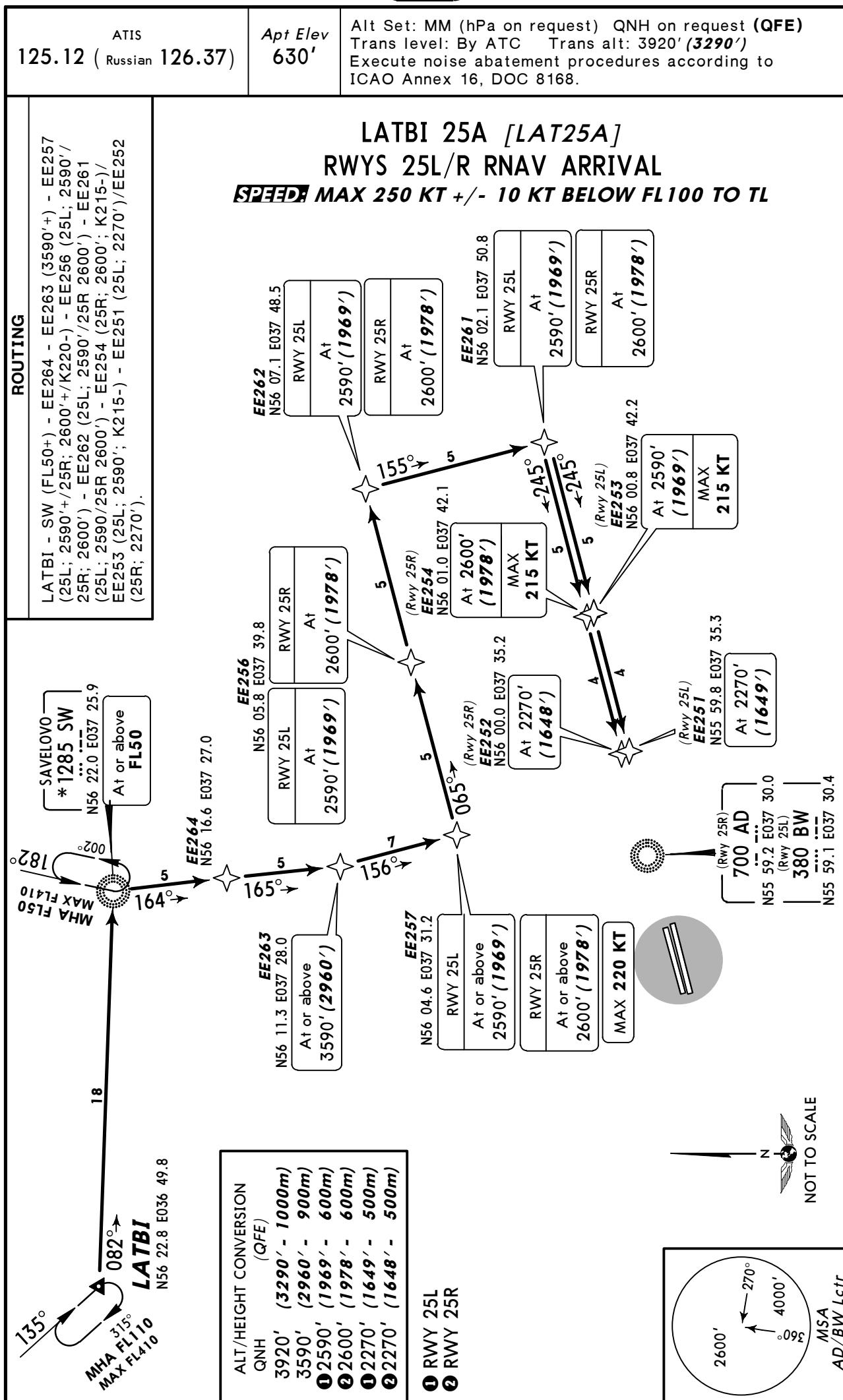
ROUTING

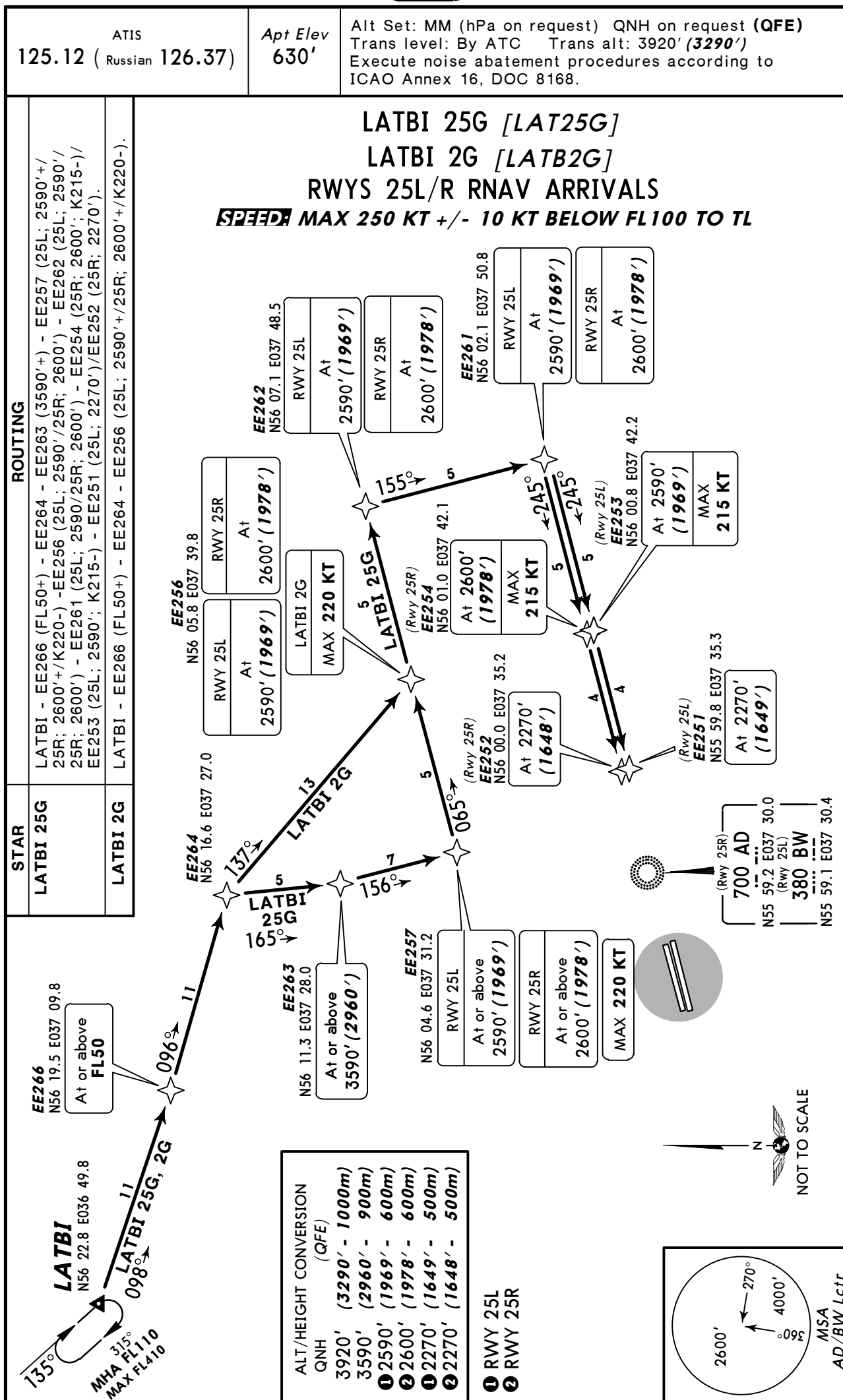
LATBI 07G

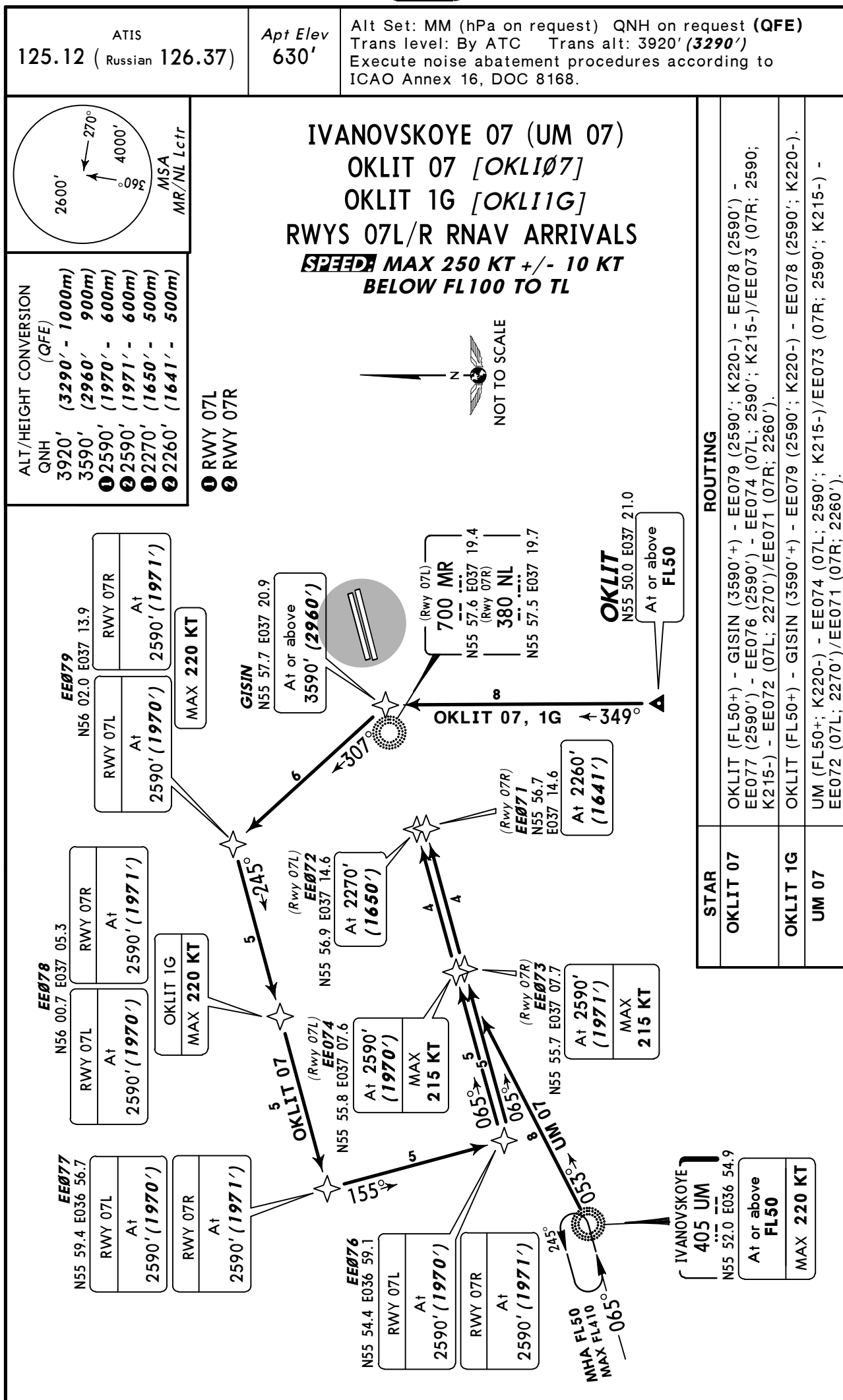
LATBI - EE083 (FL50+; K230-) - EE077 (2590'; K220-) - EE076 (2590') - EE074 (07L; 2590'; K215-)/EE073 (07R; 2590; K215-) - EE072 (07L; 2270')/EE071 (07R; 2260').

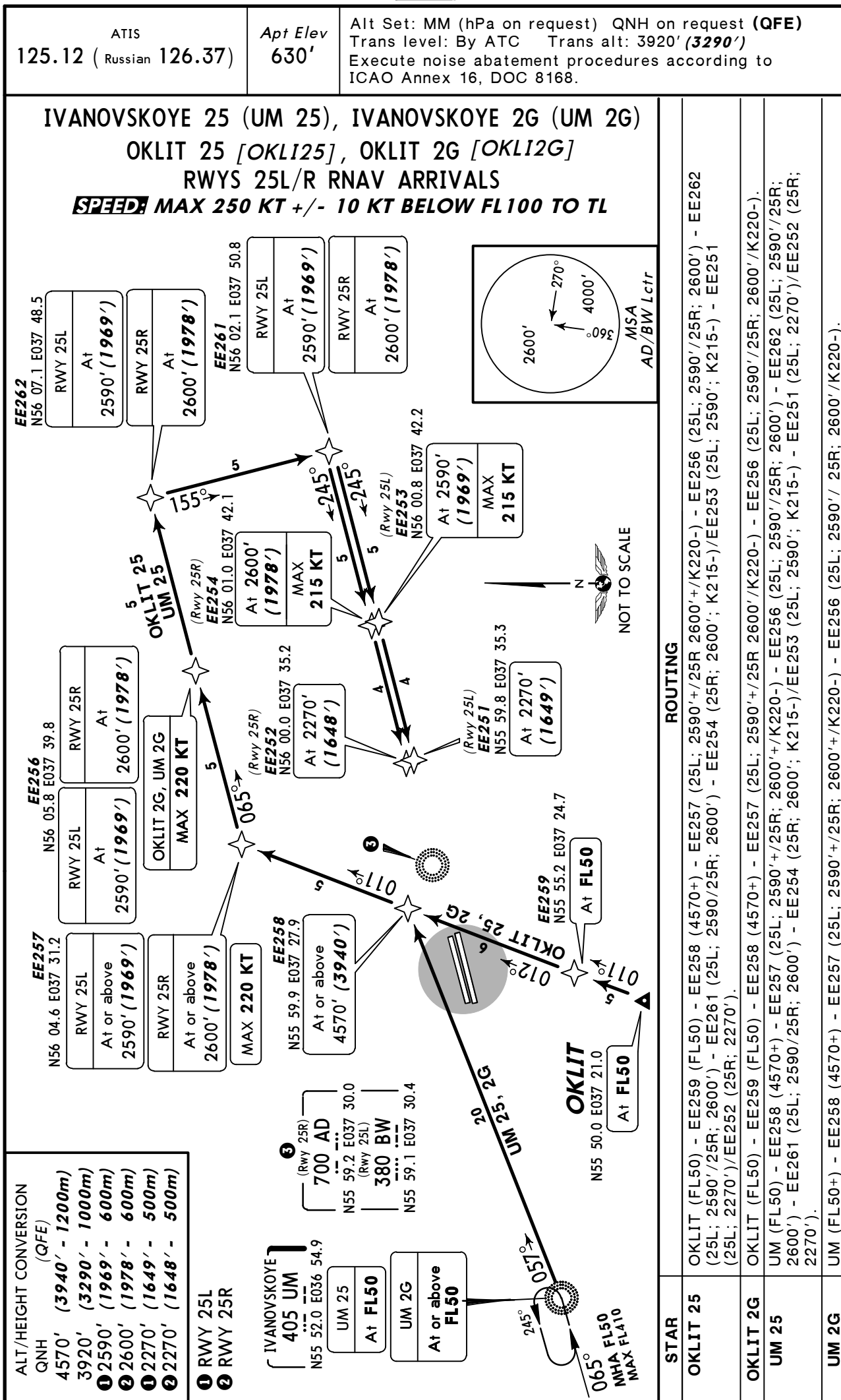
LATBI 5G

LATBI - EE083 (FL50+; K230-) - EE078 (2590'; K220-).





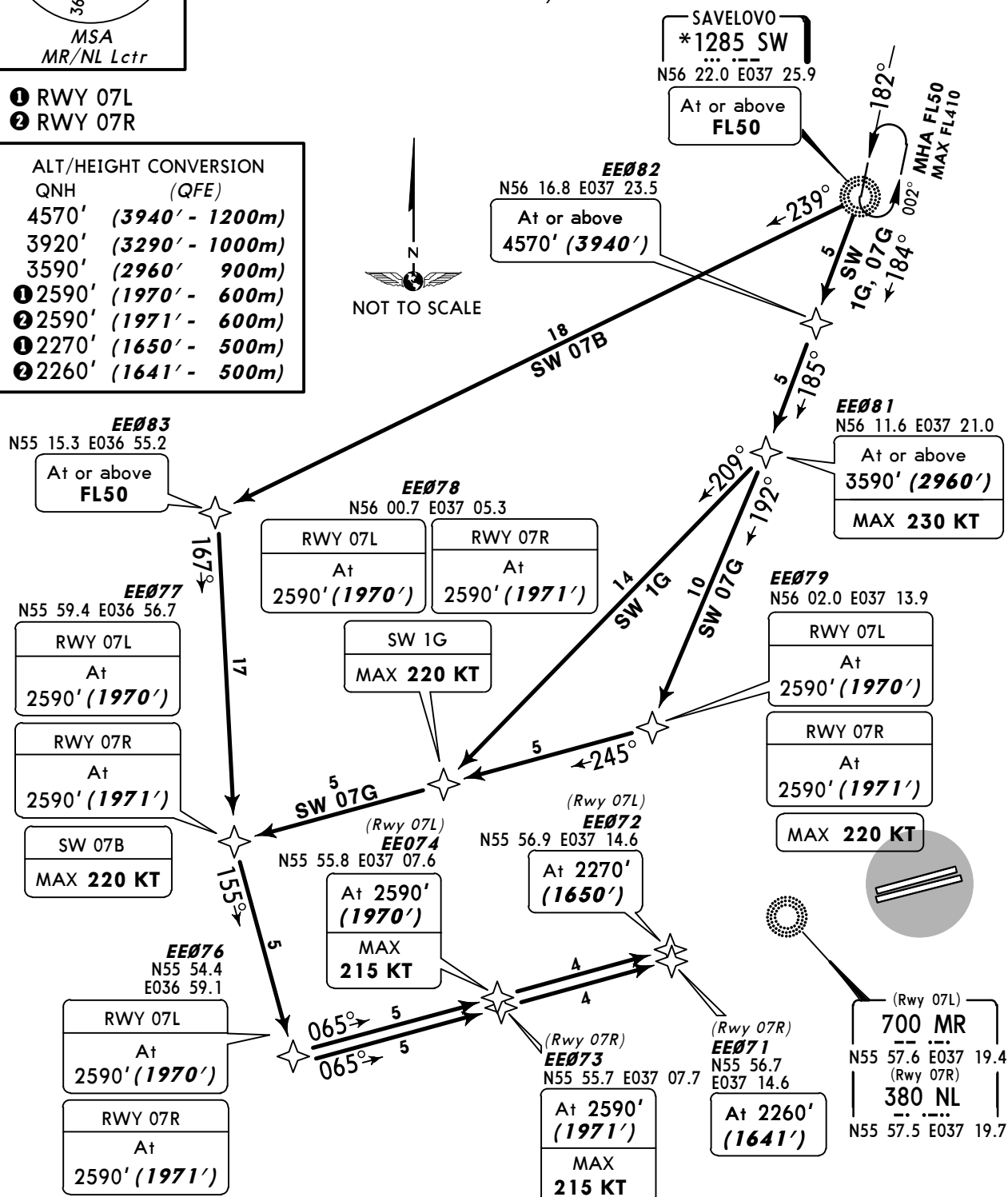




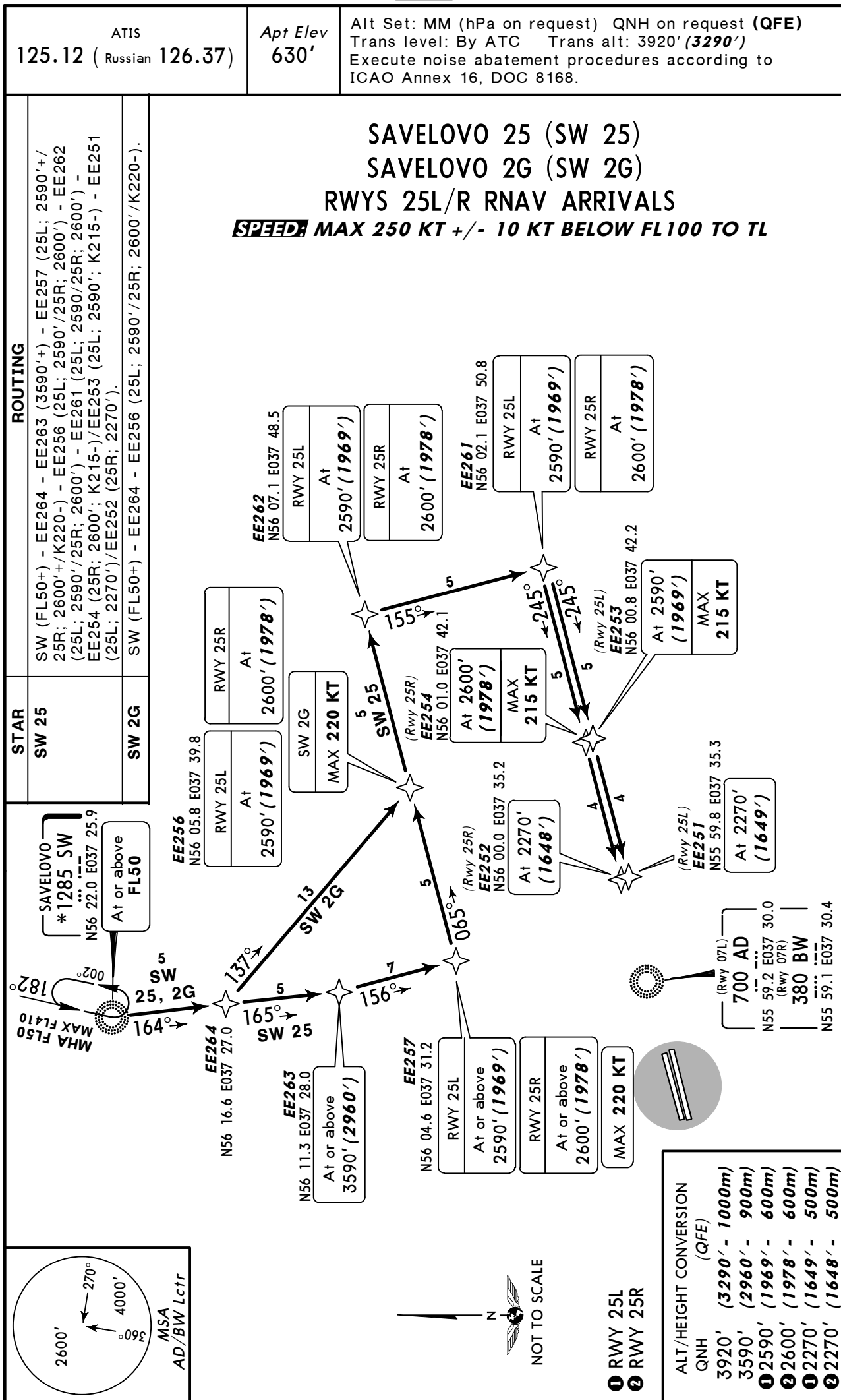
Alt Set: MM (hPa on request) QNH on request **(QFE)**
Trans level: By ATC Trans alt: 3920' **(3290')**
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.



- ALT/HEIGHT CONVERSION**
- | QNH | (QFE) |
|-------|-----------------|
| 4570' | (3940' - 1200m) |
| 3920' | (3290' - 1000m) |
| 3590' | (2960' - 900m) |
| 2590' | (1970' - 600m) |
| 2590' | (1971' - 600m) |
| 2270' | (1650' - 500m) |
| 2260' | (1641' - 500m) |



STAR	ROUTING
SW 07B	SW (FL50+) - EE083 (FL50+) - EE077 (2590'; K220-) - EE076 (2590') - EE074 (07L; 2590'; K215-)/EE073 (07R; 2590; K215-) - EE072 (07L; 2270')/EE071 (07R; 2260').
SW 1G	SW (FL50+) - EE082 (4570'+) - EE081 (3590'+; K230-) - EE078 (2590'; 220K-).
SW 07G	SW (FL50+) - EE082 (4570'+) - EE081 (3590'+; K230-) - EE079 (2590'; K220-) - EE078 (2590') - EE077 (2590') - EE076 (2590') - EE074 (07L; 2590; K215-)/EE073 (07R; 2590; K215-) - EE072 (07L; 2270')/EE071 (07R; 2260').

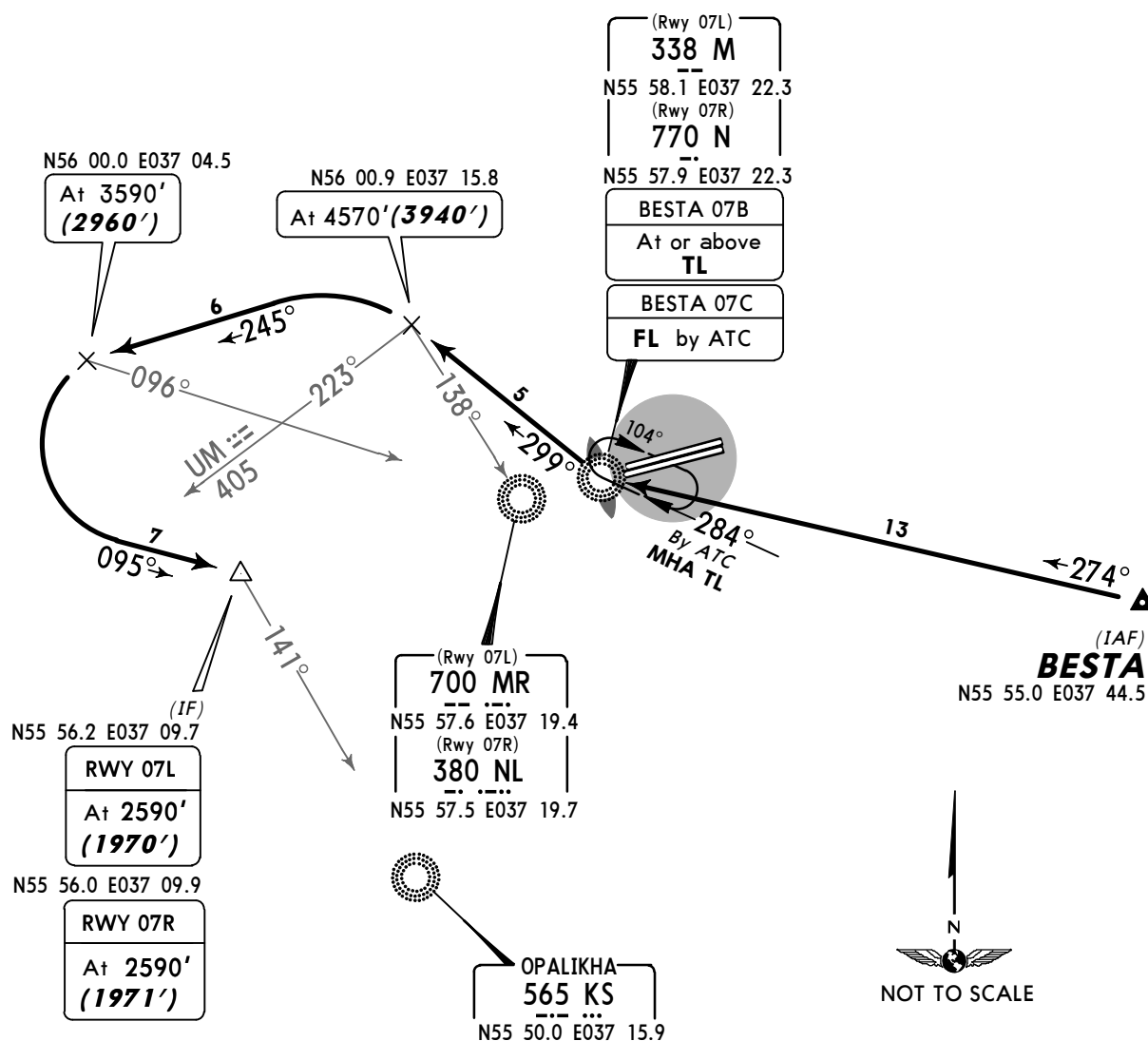
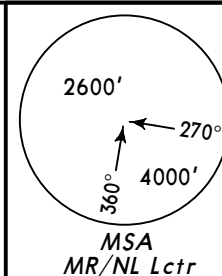


ATIS
125.12 (Russian 126.37)

Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

**BESTA 07 BRAVO (BESTA 07B) [BESØ7B]
BESTA 07 CHARLIE (BESTA 07C) [BESØ7C]
RWYS 07L/R ARRIVALS**
~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION	
QNH	(QFE)
4570'	(3940' - 1200m)
3920'	(3290' - 1000m)
3590'	(2960' - 900m)
① 2590'	(1970' - 600m)
② 2590'	(1971' - 600m)

① RWY 07L
② RWY 07R

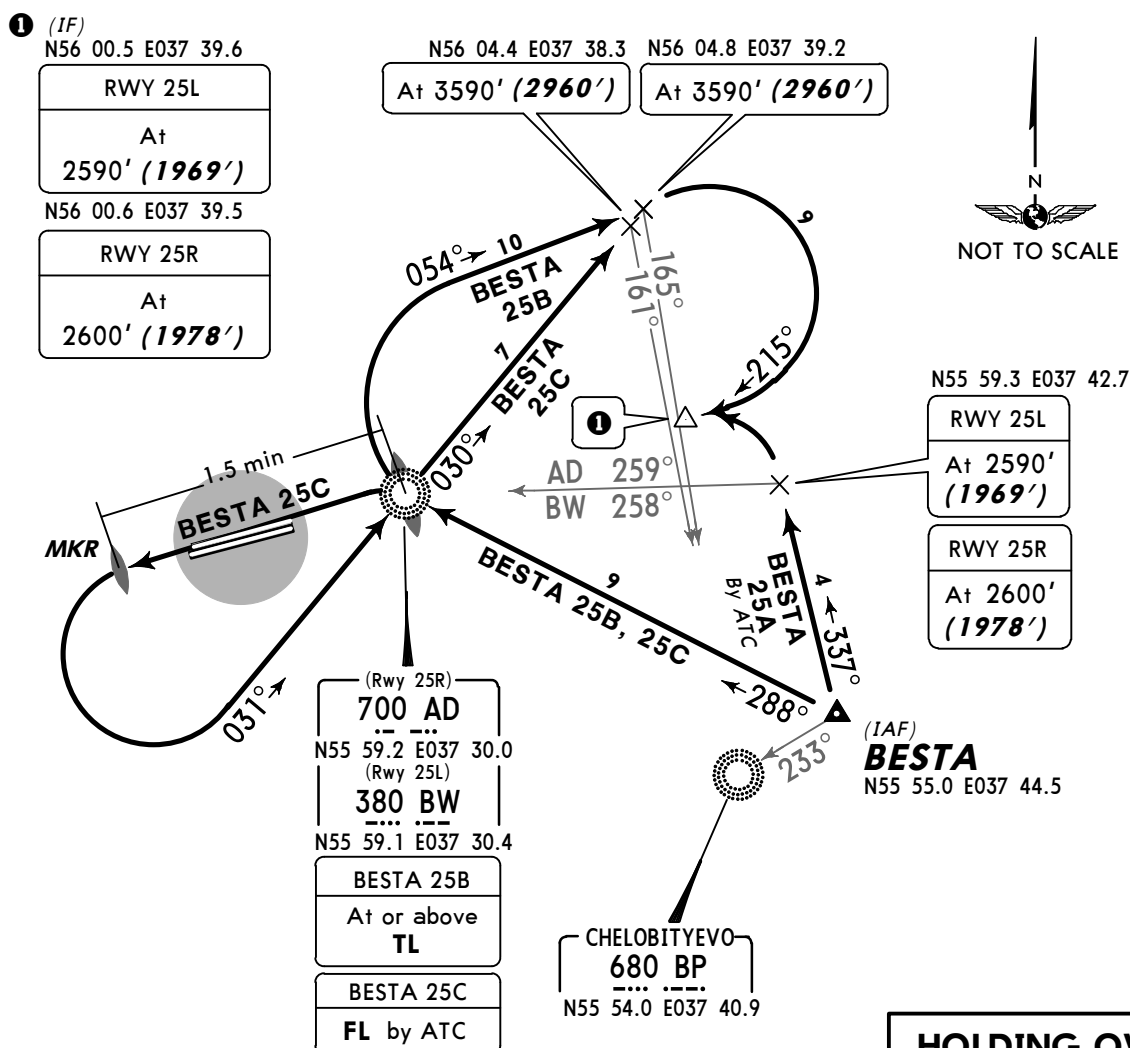
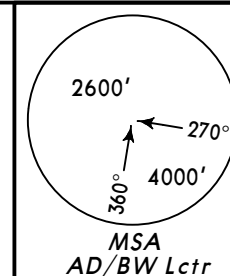
STAR	ROUTING
BESTA 07B	On 274° bearing to M/N, turn RIGHT, 299° bearing, at 223° bearing to UM turn LEFT, 245° track, at 096° bearing to MR/NL turn LEFT, 095° track, then carry out instrument approach procedure.
BESTA 07C	On 274° bearing to M/N, enter holding pattern. Leave holding pattern on 299° bearing from M/N, at 223° bearing to UM, turn LEFT, 245° track, at 096° bearing to MR/NL turn LEFT, 095° track, then carry out instrument approach procedure.

ATIS
125.12 (Russian 126.37)

Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

**BESTA 25 ALFA (BESTA 25A) [BES25A]
BESTA 25 BRAVO (BESTA 25B) [BES25B]
BESTA 25 CHARLIE (BESTA 25C) [BES25C]
RWYS 25L/R ARRIVALS**
~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION	
QNH	(QFE)
3920'	(3290' - 1000m)
3590'	(2960' - 900m)
② 2590'	(1969' - 600m)
③ 2600'	(1978' - 600m)

② RWY 25L
③ RWY 25R

**HOLDING OVER
AD/BW
By ATC**



STAR	ROUTING
BESTA 25A By ATC	On 337° track, at 259° bearing to AD/258° bearing to BW turn LEFT, 245° track, intercept final.
BESTA 25B	On 288° bearing to AD/BW, turn RIGHT, 054° track, at 165° bearing to BP turn RIGHT, 215° track, intercept final.
BESTA 25C	On 288° bearing to AD/BW, 245° bearing for 1.5 min, turn LEFT, enter holding pattern. Leave holding pattern on 030° bearing from AD/BW, at 161° bearing to BP turn RIGHT, 215° track, intercept final.

ATIS
125.12 (Russian 126.37)

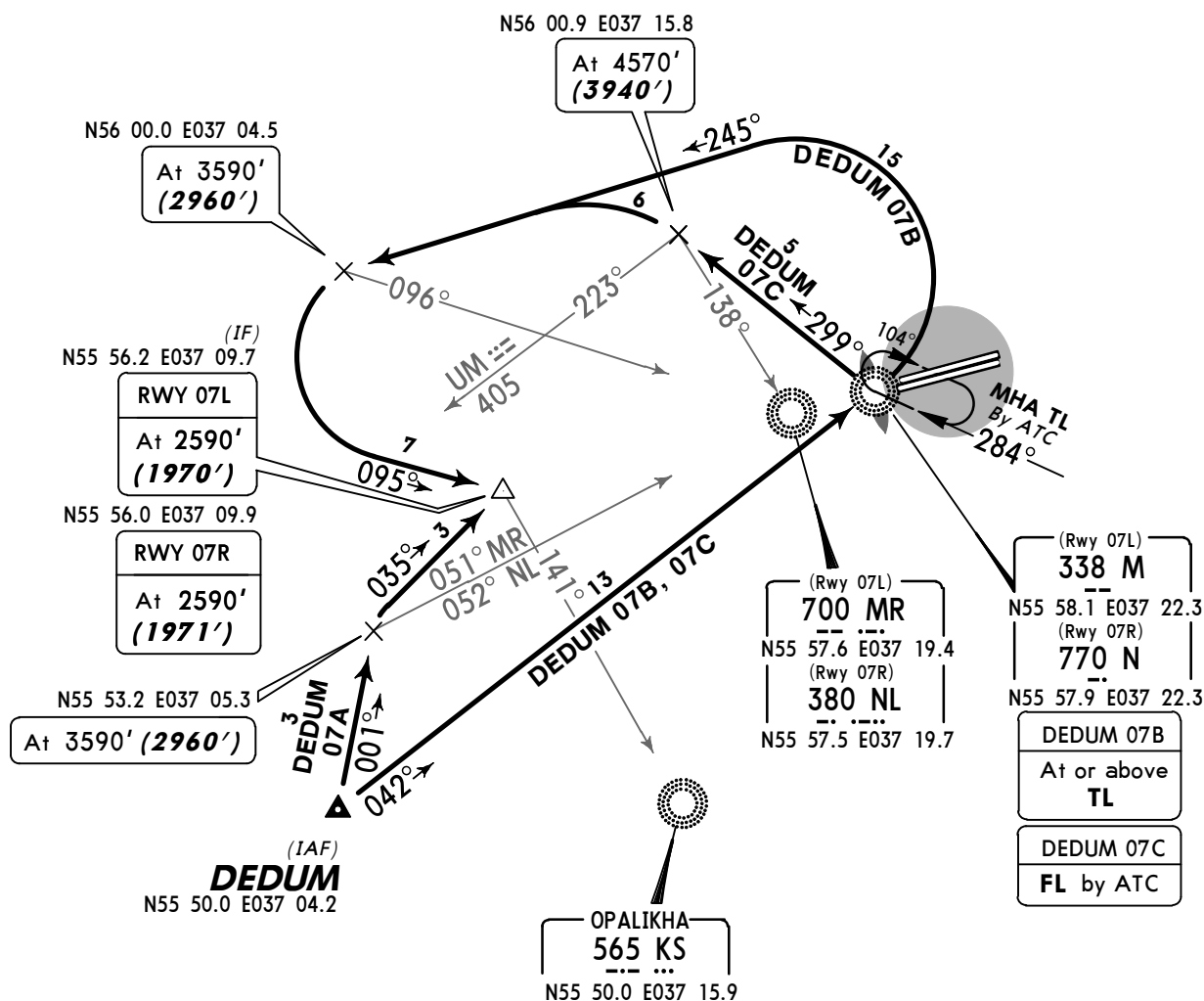
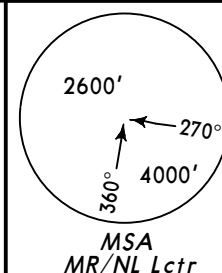
Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

DEDUM 07 ALFA (DEDUM 07A) [DEDØ7A]
DEDUM 07 BRAVO (DEDUM 07B) [DEDØ7B]
DEDUM 07 CHARLIE (DEDUM 07C) [DEDØ7C]
RWYS 07L/R ARRIVALS

BY ATC

SPEED MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION	
QNH	(QFE)
4570'	(3940' - 1200m)
3920'	(3290' - 1000m)
3590'	(2960' - 900m)
① 2590'	(1970' - 600m)
② 2590'	(1971' - 600m)

- ① RWY 07L
② RWY 07R

STAR	ROUTING
DEDUM 07A	On 001° track to N55 53.2 E037 05.3, turn RIGHT, 035° track, intercept ILS.
DEDUM 07B	On 042° bearing to M/N, turn LEFT, 245° track, at 096° bearing to MR/NL turn LEFT, 095° track, then carry out instrument approach procedure.
DEDUM 07C	On 042° bearing to M/N, enter holding pattern. Leave holding pattern on 299° bearing from M/N, at 223° bearing to UM, turn LEFT, 245° track, at 096° bearing to MR/NL turn LEFT, 095° track, then carry out instrument approach procedure.

ATIS
125.12 (Russian 126.37)

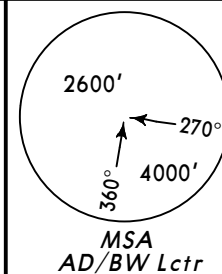
Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

DEDUM 25 BRAVO (DEDUM 25B) [DED25B]
DEDUM 25 CHARLIE (DEDUM 25C) [DED25C]
RWYS 25L/R ARRIVALS

BY ATC

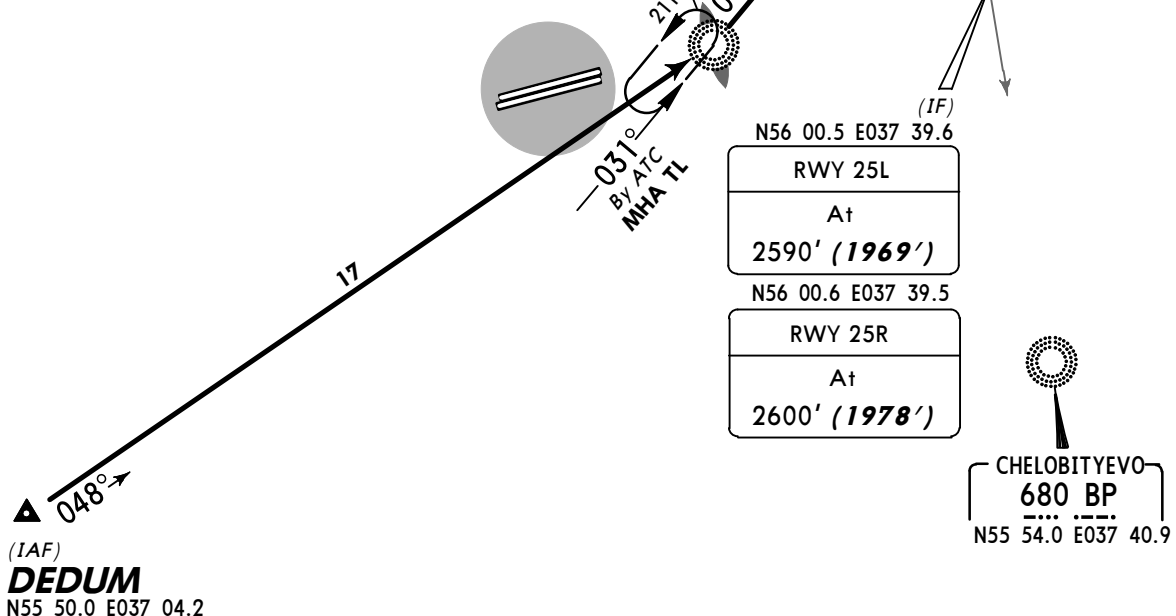
~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



(Rwy 25R)
700 AD
N55 59.2 E037 30.0
(Rwy 25L)
380 BW
N55 59.1 E037 30.4

DEDUM 25B
At or above
TL
DEDUM 25C
FL by ATC

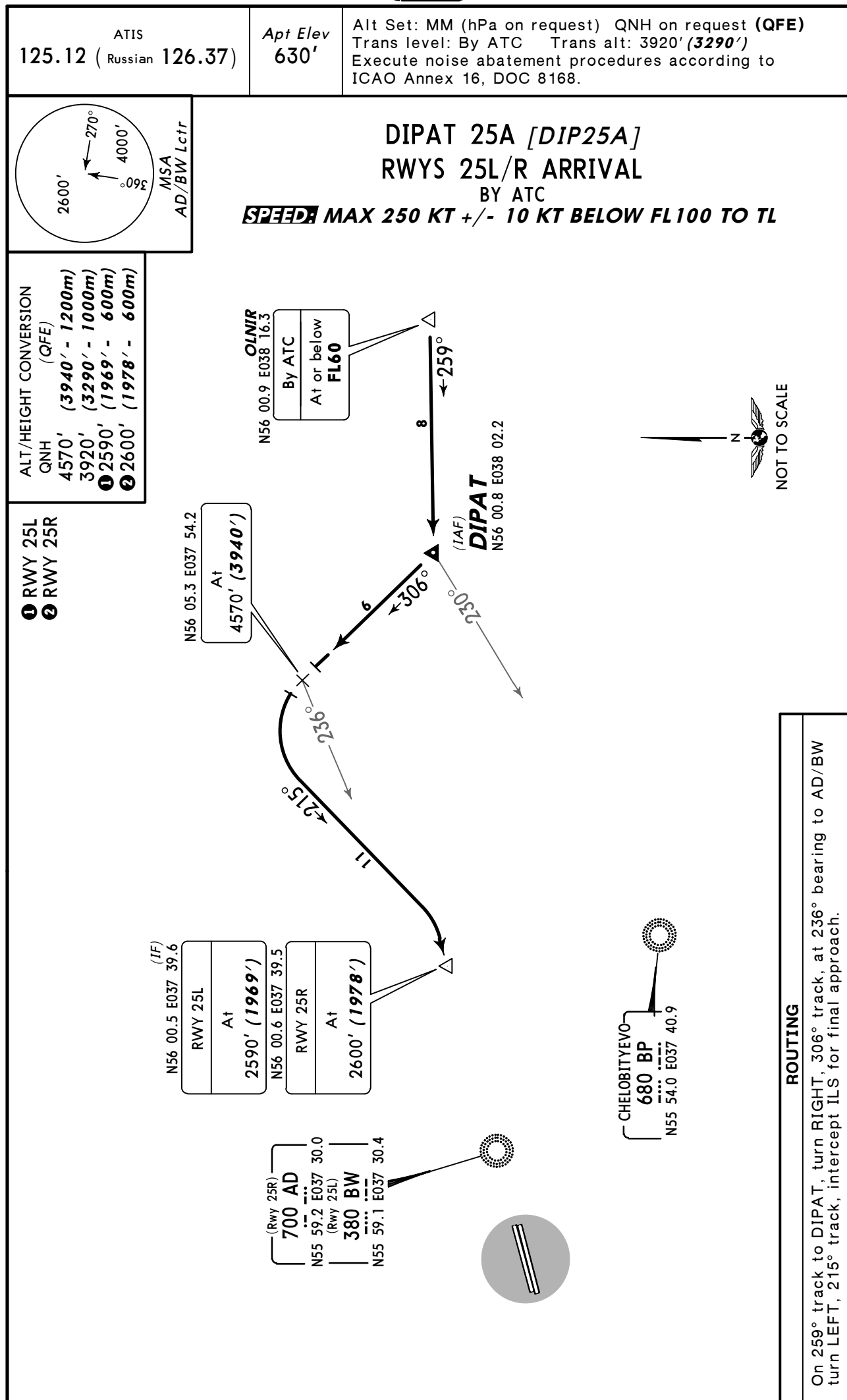
N56 04.4 E037 38.3
At 3590' (2960')



① RWY 25L
② RWY 25R

ALT/HEIGHT CONVERSION
QNH (QFE)
3920' (3290' - 1000m)
3590' (2960' - 900m)
① 2590' (1969' - 600m)
② 2600' (1978' - 600m)

STAR	ROUTING
DEDUM 25B	On 048° bearing to AD/BW, 030° bearing, at 161° bearing to BP turn RIGHT, 215° track, intercept final.
DEDUM 25C	On 048° bearing to AD/BW, enter holding pattern. Leave holding pattern on 030° bearing from AD/BW, at 161° bearing to BP turn RIGHT, 215° track, intercept final.



ATIS
125.12 (Russian 126.37)

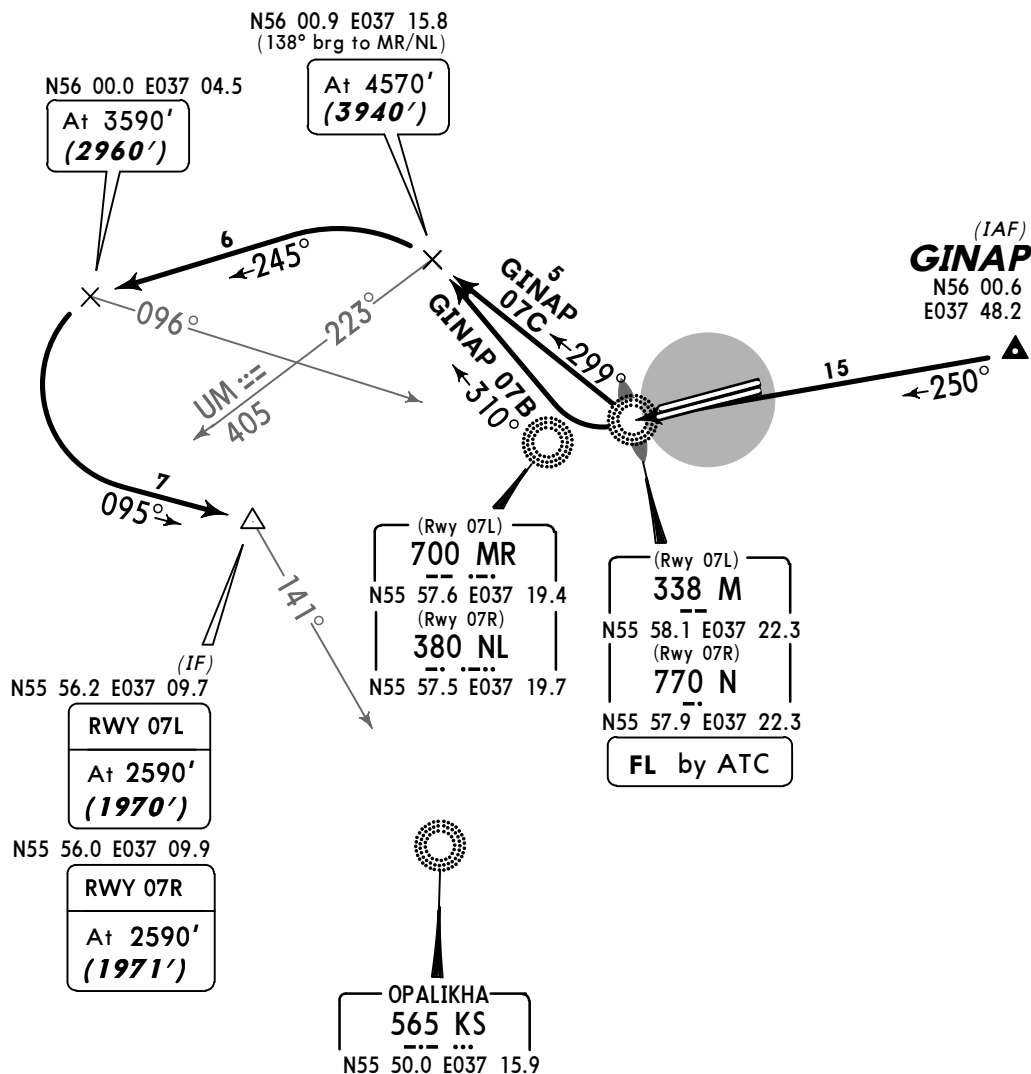
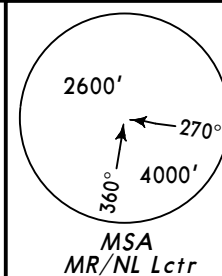
Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

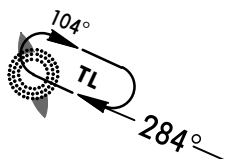
GINAP 07 BRAVO (GINAP 07B) [GINØ7B]
GINAP 07 CHARLIE (GINAP 07C) [GINØ7C]
RWYS 07L/R ARRIVALS

BY ATC

SPEED MAX 250 KT +/- 10 KT BELOW FL100 TO TL



**HOLDING OVER
M/N**
By ATC



- ① RWY 07L
- ② RWY 07R

ALT/HEIGHT CONVERSION	
QNH	(QFE)
4570'	(3940' - 1200m)
3920'	(3290' - 1000m)
3590'	(2960' - 900m)
① 2590'	(1970' - 600m)
② 2590'	(1971' - 600m)

STAR

ROUTING

GINAP 07B

On 250° bearing to M/N, turn RIGHT, 310° track, at 223° bearing to UM turn LEFT, 245° track, at 096° bearing to MR/NL turn LEFT, 095° track, then carry out instrument approach procedure.

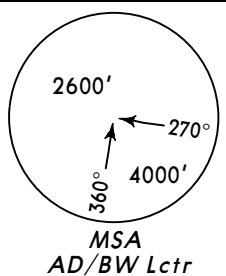
GINAP 07C

On 250° bearing to M/N, enter holding pattern. Leave holding pattern on 299° bearing from M/N, at 223° bearing to UM turn LEFT, 245° track, at 096° bearing to MR/NL turn LEFT, 095° track, then carry out instrument approach procedure.

ATIS
125.12 (Russian 126.37)

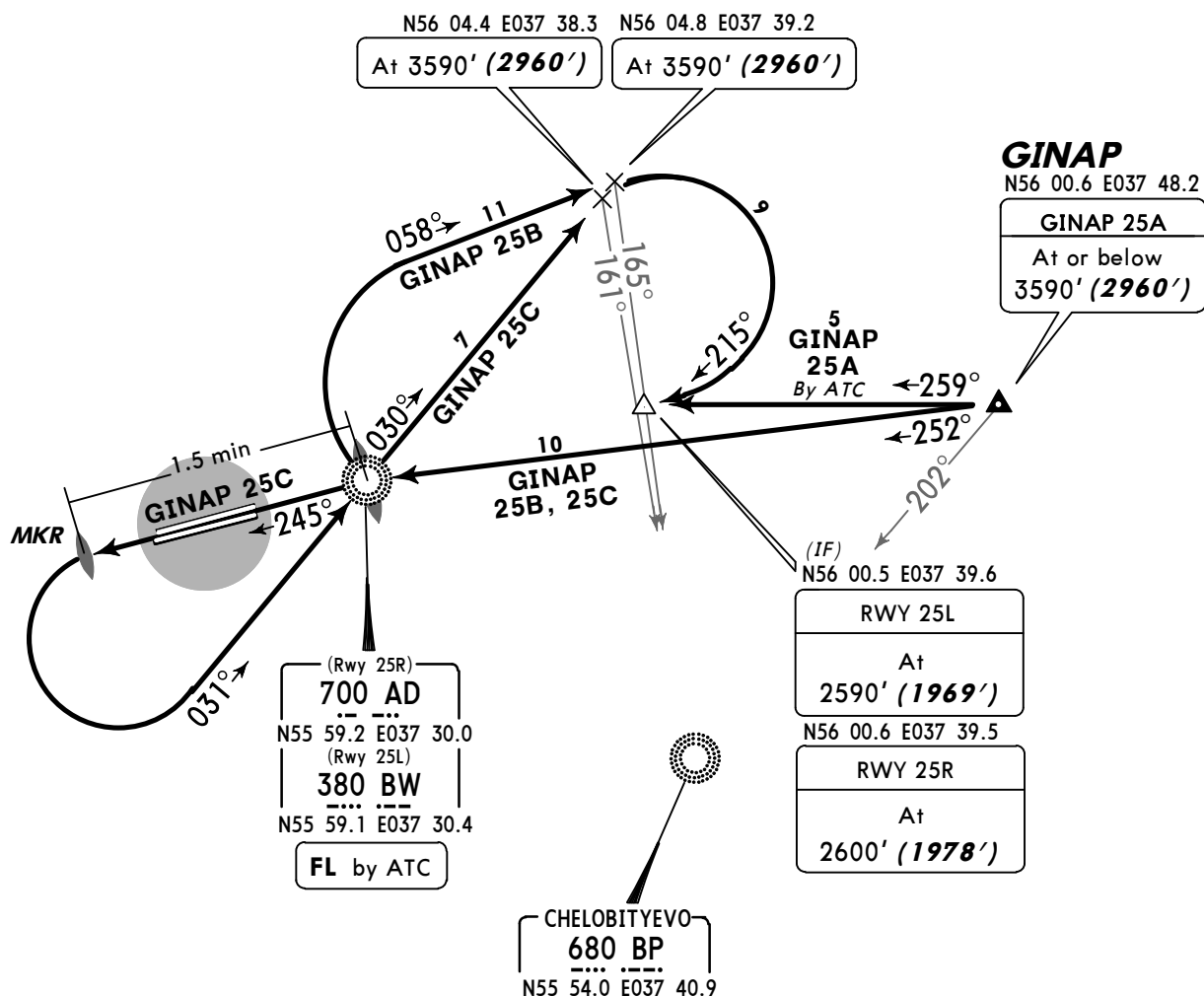
Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.



GINAP 25 ALFA (GINAP 25A) [GIN25A]
GINAP 25 BRAVO (GINAP 25B) [GIN25B]
GINAP 25 CHARLIE (GINAP 25C) [GIN25C]
RWYS 25L/R ARRIVALS

~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION	
QNH	(QFE)
3920'	(3290' - 1000m)
3590'	(2960' - 900m)
① 2590'	(1969' - 600m)
② 2600'	(1978' - 600m)

- ① RWY 25L
- ② RWY 25R



**HOLDING OVER
AD/BW**
By ATC



STAR	ROUTING
GINAP 25A By ATC	On 259° track to intercept final.
GINAP 25B	On 252° bearing to AD/BW, turn RIGHT, 058° track to N56 04.8 E037 39.2, turn RIGHT, 215° track to intercept final.
GINAP 25C	On 252° bearing to AD/BW, 245° bearing for 1.5 min, turn LEFT, enter holding pattern. Leave holding pattern on 030° bearing from AD/BW to N56 04.4 E037 38.3, turn RIGHT, 215° track to intercept final.

ATIS
125.12 (Russian 126.37)

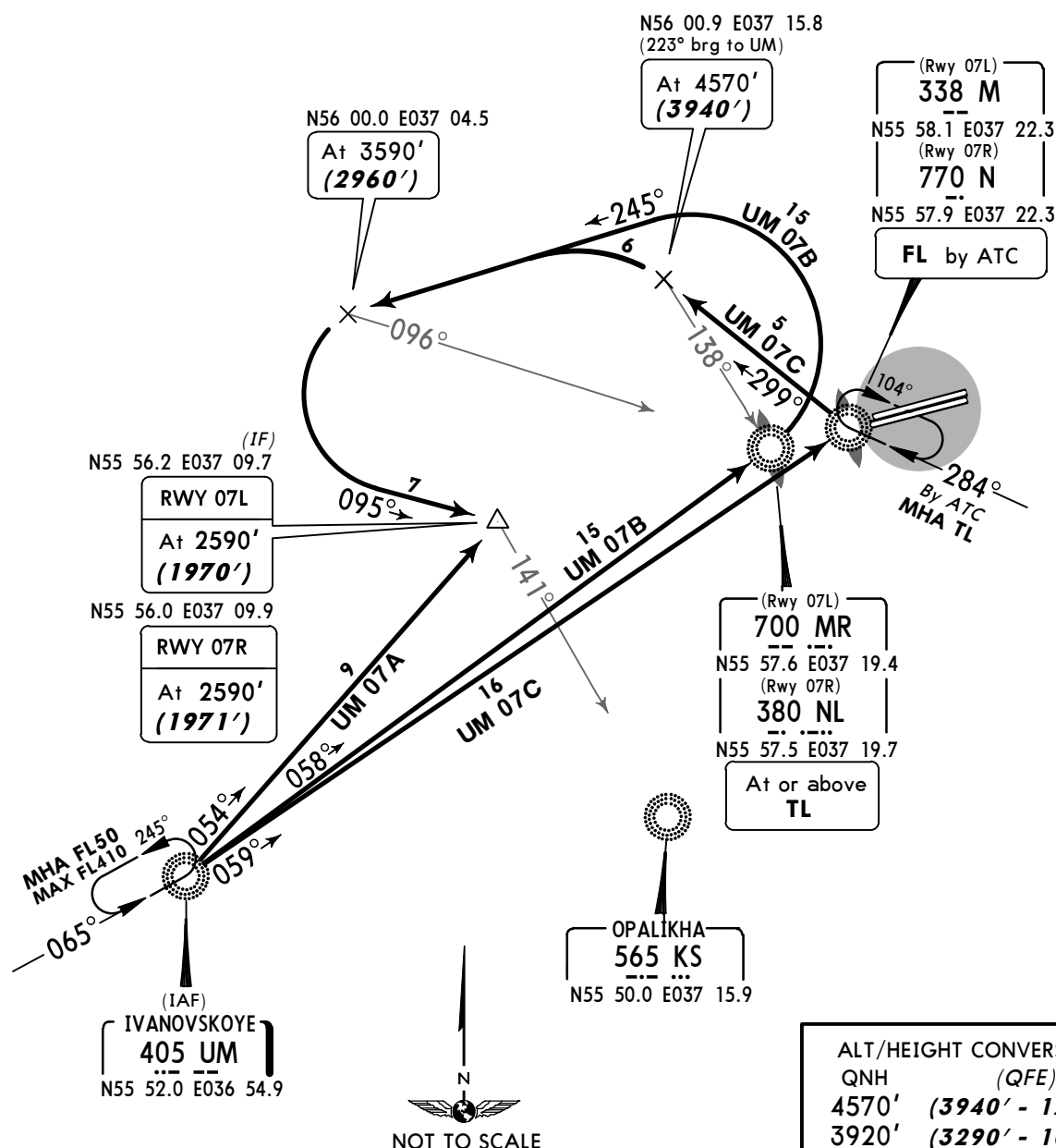
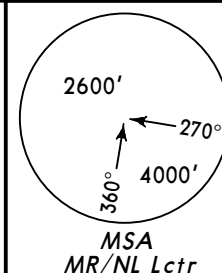
Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

IVANOVSKOYE 07 ALFA (UM 07A)
IVANOVSKOYE 07 BRAVO (UM 07B)
IVANOVSKOYE 07 CHARLIE (UM 07C)

RWYS 07L/R ARRIVALS

SPEEDS MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION	
QNH	(QFE)
4570'	(3940' - 1200m)
3920'	(3290' - 1000m)
3590'	(2960' - 900m)
① 2590'	(1970' - 600m)
② 2590'	(1971' - 600m)

- ① RWY 07L
- ② RWY 07R

STAR	ROUTING
UM 07A	On 054° bearing, intercept ILS.
UM 07B	On 058° bearing to MR/NL, turn LEFT, 245° track, at 096° bearing to MR/NL turn LEFT, 095° track, then carry out instrument approach procedure.
UM 07C	On 059° bearing to M/N, enter holding pattern. Leave holding pattern on 299° bearing from M/N, at 223° bearing to UM turn LEFT, 245° track, at 096° bearing to MR/NL turn LEFT, 095° track, then carry out instrument approach procedure.

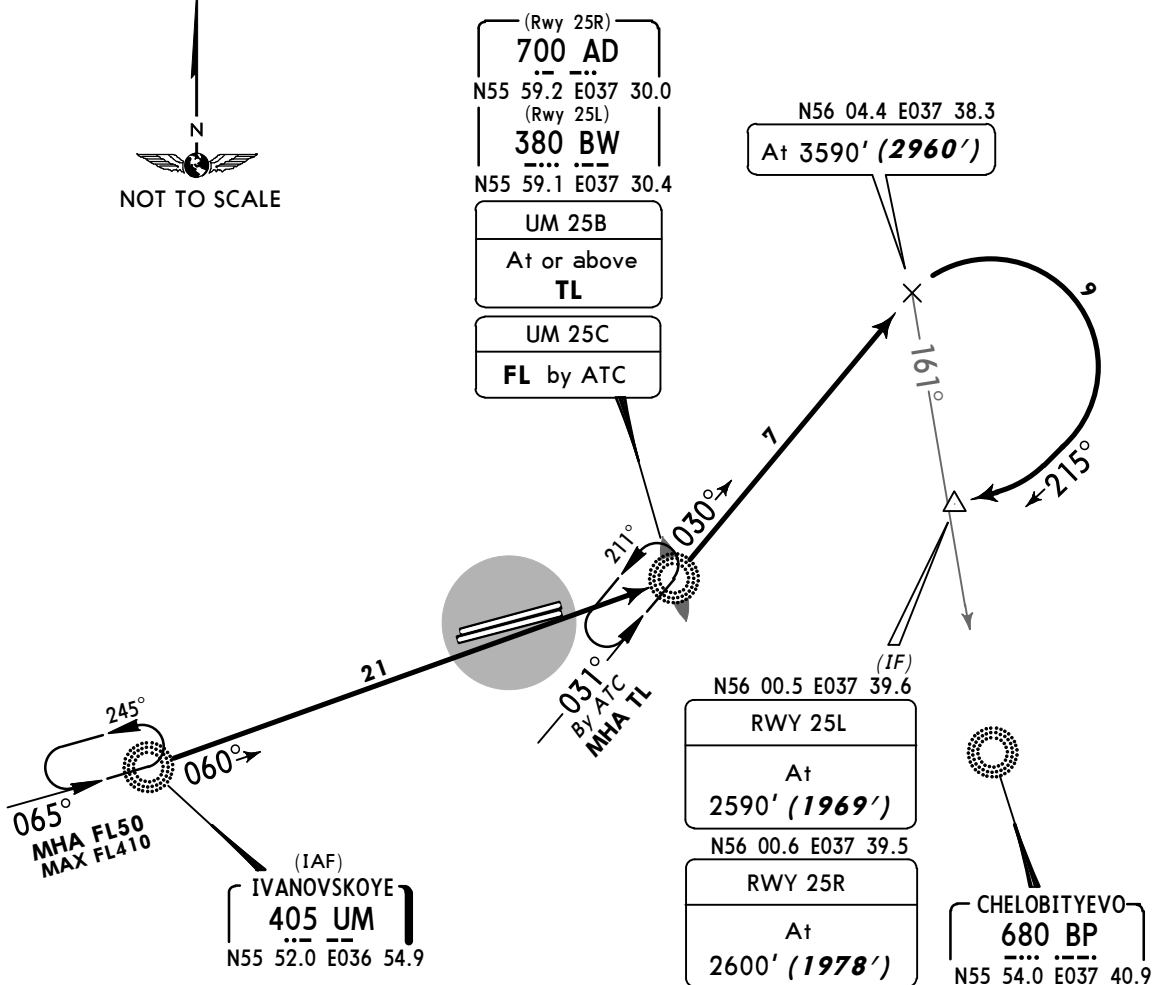
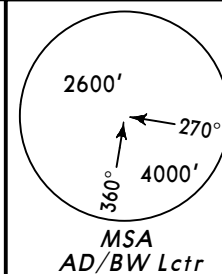
ATIS
125.12 (Russian 126.37)

Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

IVANOVSKOYE 25 BRAVO (UM 25B)
IVANOVSKOYE 25 CHARLIE (UM 25C)
RWYS 25L/R ARRIVALS

~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION

QNH (QFE)
3920' (3290' - 1000m)
3590' (2960' - 900m)
① 2590' (1969' - 600m)
② 2600' (1978' - 600m)

① RWY 25L
② RWY 25R

STAR

ROUTING

UM 25B

On 060° bearing to AD/BW, turn LEFT, 030° bearing to N56 04.4 E037 38.3, turn RIGHT, 215° track, intercept final.

UM 25C

On 060° bearing to AD/BW, enter holding pattern. Leave holding pattern on 030° bearing from AD/BW to N56 04.4 E037 38.3, turn RIGHT, 215° track, intercept final.

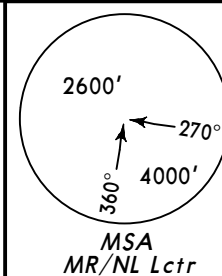
ATIS
125.12 (Russian 126.37)

Apt Elev
630'

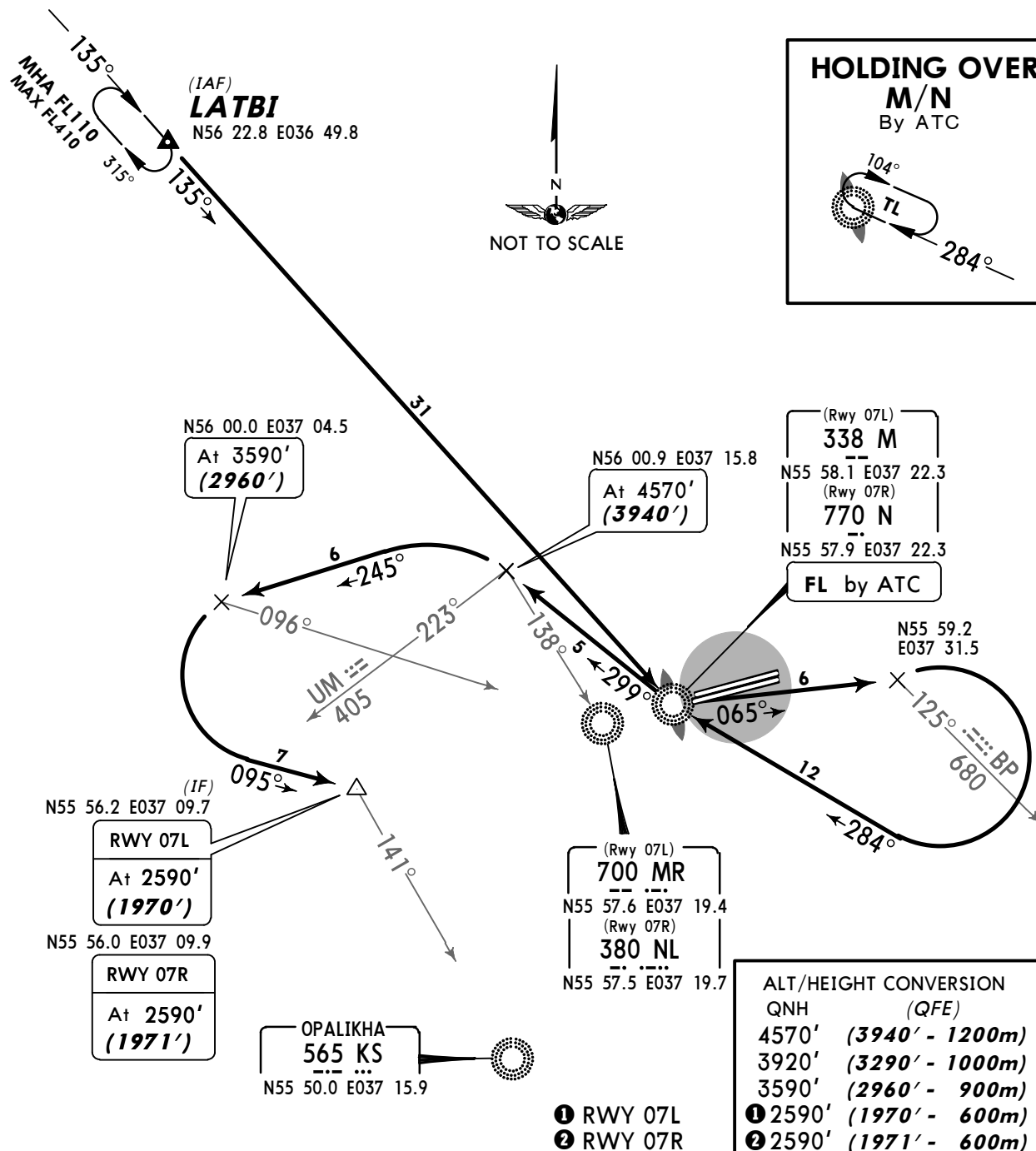
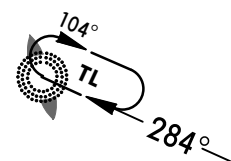
Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

LATBI 07 BRAVO
(LATBI 07B) [LATØ7B]
LATBI 07 CHARLIE
(LATBI 07C) [LATØ7C]
RWYS 07L/R ARRIVALS

~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



HOLDING OVER
M/N
By ATC



ALT/HEIGHT CONVERSION	
QNH	(QFE)
4570'	(3940' - 1200m)
3920'	(3290' - 1000m)
3590'	(2960' - 900m)
① 2590'	(1970' - 600m)
② 2590'	(1971' - 600m)

- ① RWY 07L
- ② RWY 07R

STAR	ROUTING
LATBI 07B	On 135° bearing to M/N, turn LEFT, 065° track to N55 59.2 E037 31.5, turn RIGHT to M/N, 299° bearing from M/N, at 223° bearing to UM turn LEFT, 245° track, at 096° bearing to MR/NL, turn LEFT, 095° track, intercept ILS.
LATBI 07C	On 135° bearing to M/N, turn LEFT, 065° track to N55 59.2 E037 31.5, turn RIGHT to M/N, enter holding pattern. Leave holding pattern on 299° bearing from M/N, at 223° bearing to UM turn LEFT, 245° track, at 096° bearing to MR/NL, turn LEFT, 095° track, intercept ILS.

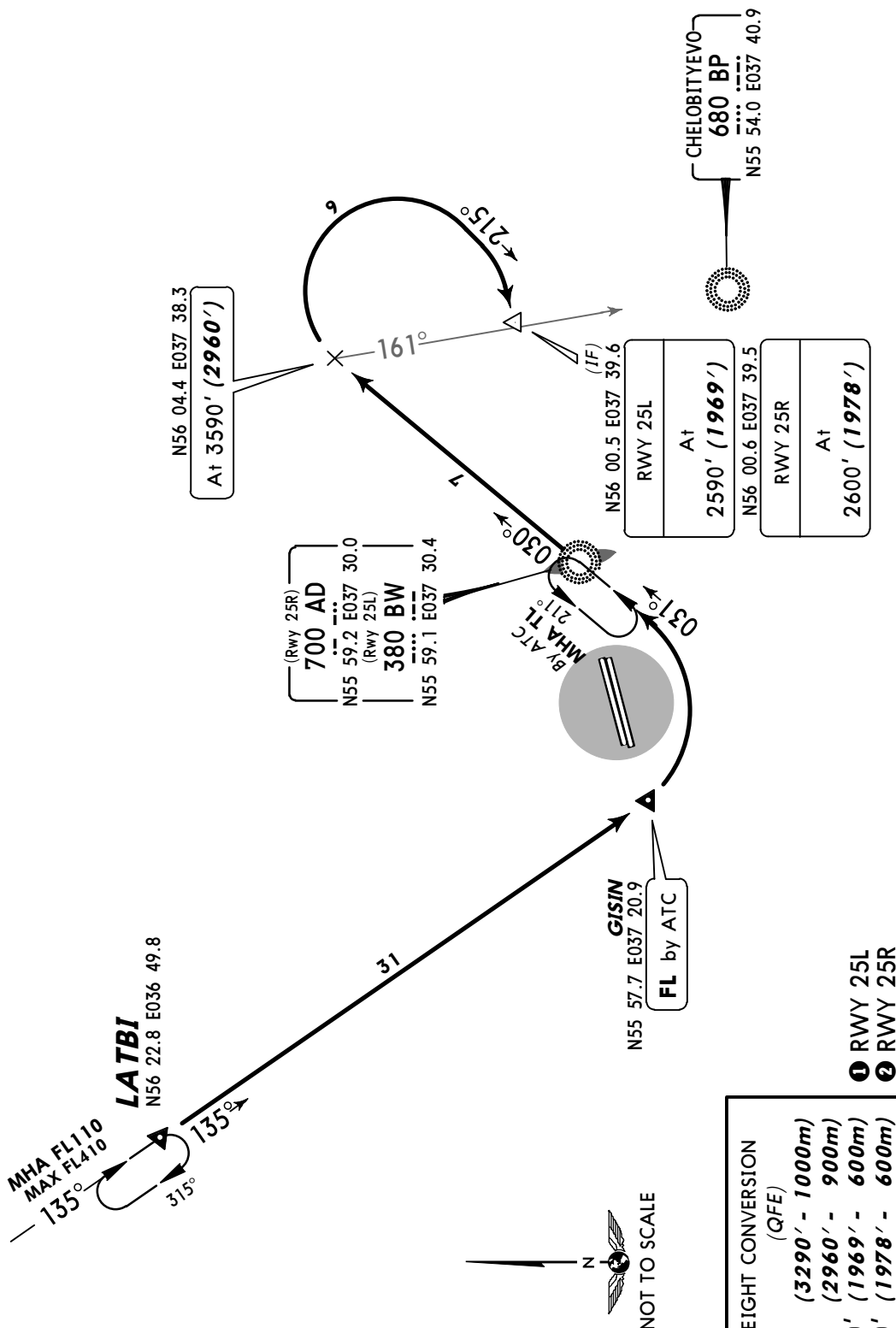
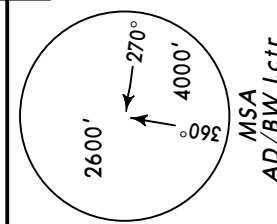
ATIS
125.12 (Russian 126.37)

Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

LATBI 25 BRAVO (LATBI 25B) [LAT25B]
LATBI 25 CHARLIE (LATBI 25C) [LAT25C]
RWYS 25L/R ARRIVALS

~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION QNH (QFE)
3920' (3290' - 1000m)
3590' (2960' - 900m)
1 2590' (1969' - 600m)
2 2600' (1978' - 600m)

STAR	ROUTING
LATBI 25B	On 135° track to GISIN, turn LEFT, intercept 031° bearing to AD/BW, on 030° bearing from AD/BW to N56 04.4 E037 38.3, turn RIGHT, 215° track to intercept final.
LATBI 25C	On 135° track to GISIN, turn LEFT, intercept 031° bearing to AD/BW, enter holding pattern. Leave holding pattern on 030° bearing from AD/BW to N56 04.4 E037 38.3, turn RIGHT, 215° track to intercept final.

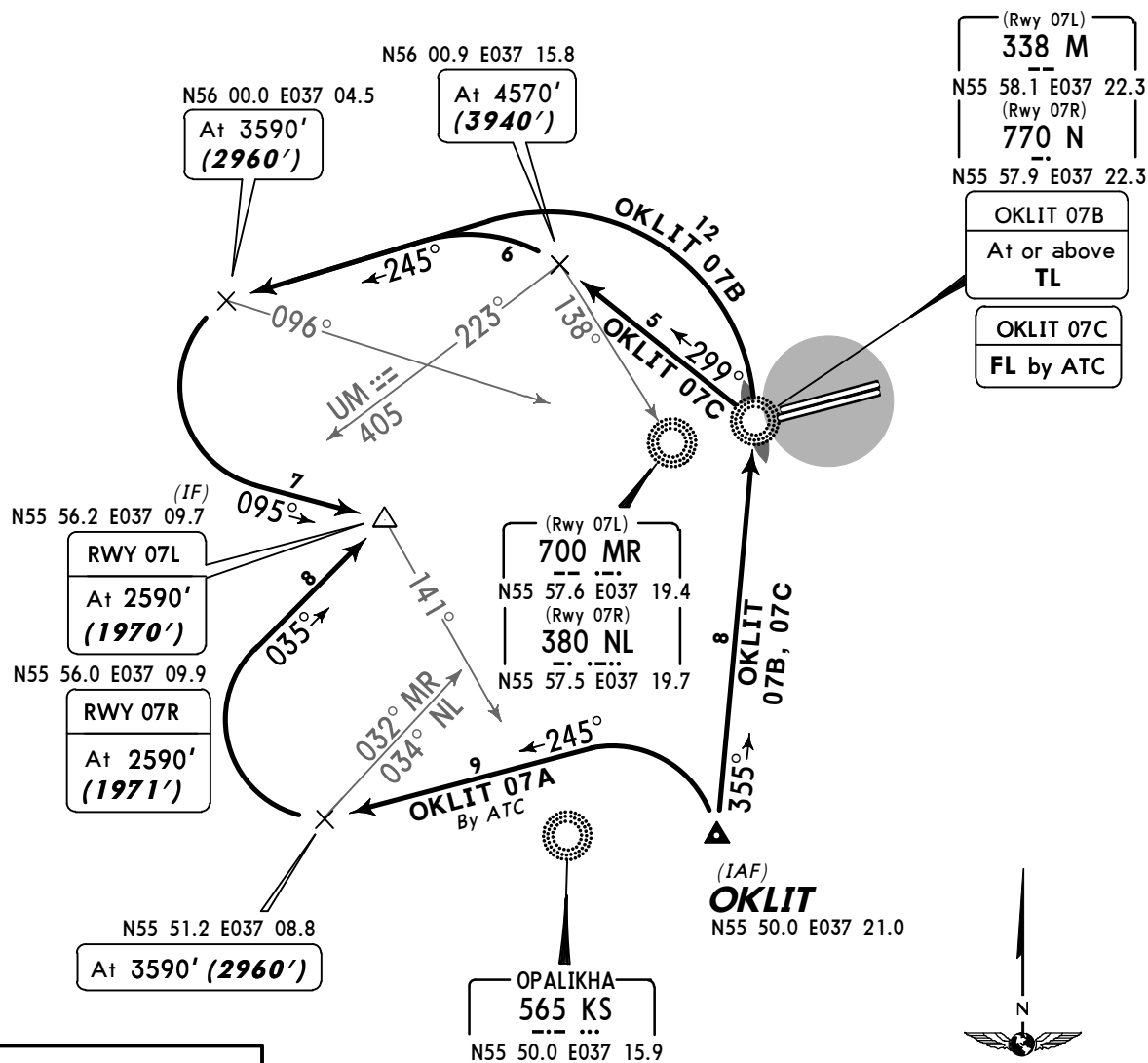
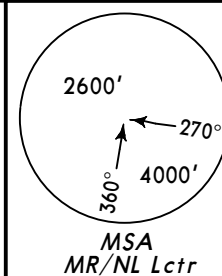
ATIS
125.12 (Russian 126.37)

Apt Elev
630'

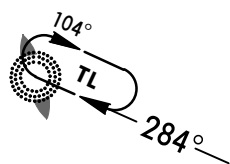
Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

OKLIT 07 ALFA (OKLIT 07A) [OKLØ7A]
OKLIT 07 BRAVO (OKLIT 07B) [OKLØ7B]
OKLIT 07 CHARLIE (OKLIT 07C) [OKLØ7C]
RWYS 07L/R ARRIVALS

SPEED MAX 250 KT +/- 10 KT BELOW FL100 TO TL



**HOLDING OVER
M/N**
By ATC



① RWY 07L
② RWY 07R

ALT/HEIGHT CONVERSION	
QNH	(QFE)
4570'	(3940' - 1200m)
3920'	(3290' - 1000m)
3590'	(2960' - 900m)
① 2590'	(1970' - 600m)
② 2590'	(1971' - 600m)

STAR

ROUTING

OKLIT 07A
By ATC

Turn LEFT, 245° track, at 032° bearing to MR/034° bearing to NL turn RIGHT, 035° track, intercept ILS.

OKLIT 07B

On 355° bearing to M/N, turn LEFT, 245° track, at 096° bearing to MR/NL turn LEFT, 095° track, then carry out instrument approach procedure.

OKLIT 07C

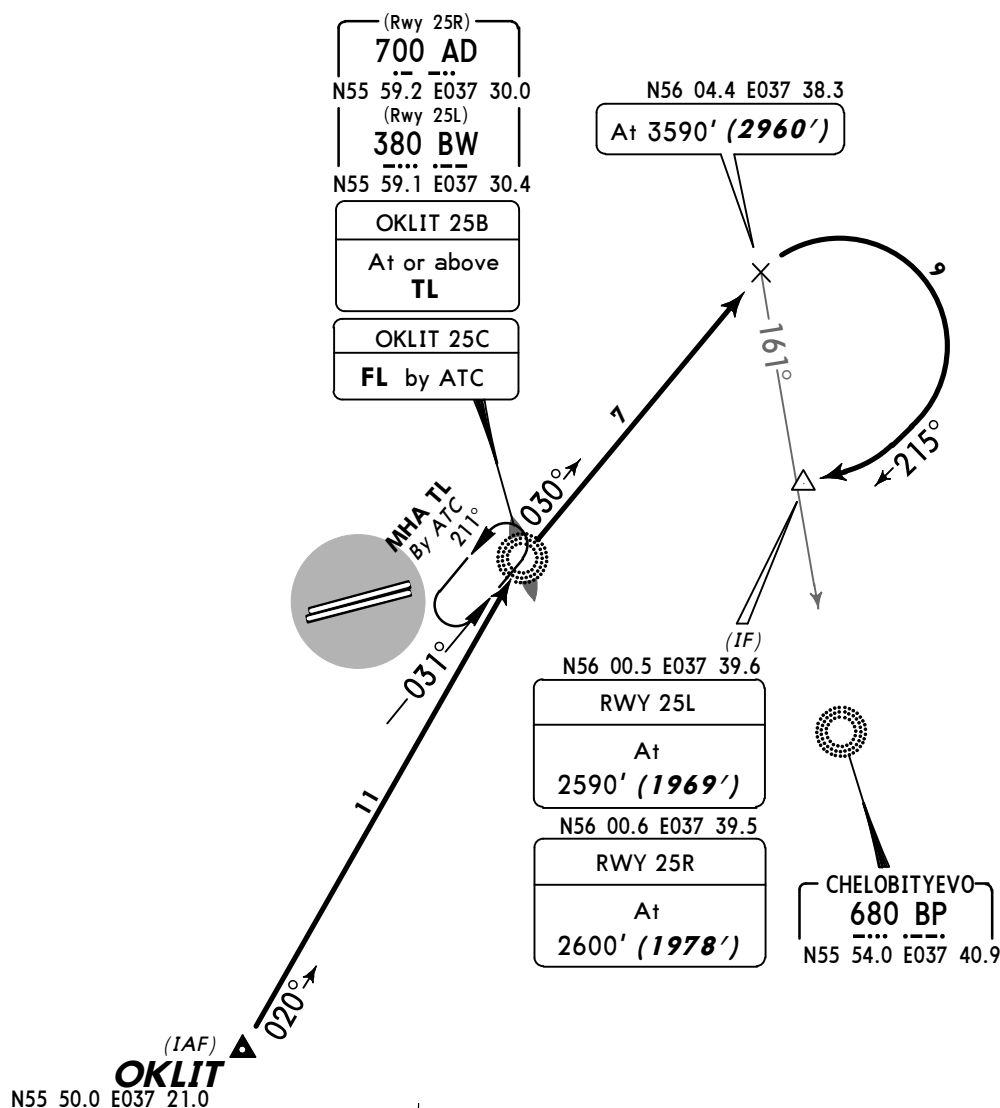
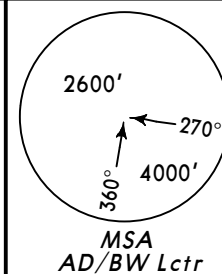
On 355° bearing to M/N, enter holding pattern. Leave holding pattern on 299° bearing from M/N, at 223° bearing to UM turn LEFT, 245° track, at 096° bearing to MR/NL turn LEFT, 095° track, then carry out instrument approach procedure.

ATIS
125.12 (Russian 126.37)

Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

OKLIT 25 BRAVO (OKLIT 25B) [OKL25B]
OKLIT 25 CHARLIE (OKLIT 25C) [OKL25C]
RWYS 25L/R ARRIVALS
~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



① RWY 25L
② RWY 25R

ALT/HEIGHT CONVERSION	
QNH	(QFE)
3920'	(3290' - 1000m)
3590'	(2960' - 900m)
① 2590'	(1969' - 600m)
② 2600'	(1978' - 600m)

STAR	ROUTING
OKLIT 25B	On 020° bearing to AD/BW, 030° bearing, at 161° bearing to BP turn RIGHT, 215° track, intercept final.
OKLIT 25C	On 020° bearing to AD/BW, enter holding pattern. Leave holding pattern on 030° bearing from AD/BW, at 161° bearing turn RIGHT, 215° track, intercept final.

ATIS
125.12 (Russian 126.37)

Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')
Execute noise abatement procedures according to
ICAO Annex 16, DOC 8168.

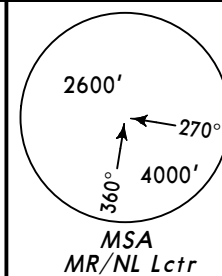
SAVELOVO 07 ALFA (SW 07A)
SAVELOVO 07 CHARLIE (SW 07C)
RWYS 07L/R ARRIVALS

SPEED MAX 250 KT +/- 10 KT BELOW FL100 TO TL

LATBI
N56 22.8
E036 49.8

ALT/HEIGHT CONVERSION	
QNH	(QFE)
4570'	(3940' - 1200m)
3920'	(3290' - 1000m)
3590'	(2960' - 900m)
① 2590'	(1970' - 600m)
② 2590'	(1971' - 600m)

- ① RWY 07L
- ② RWY 07R

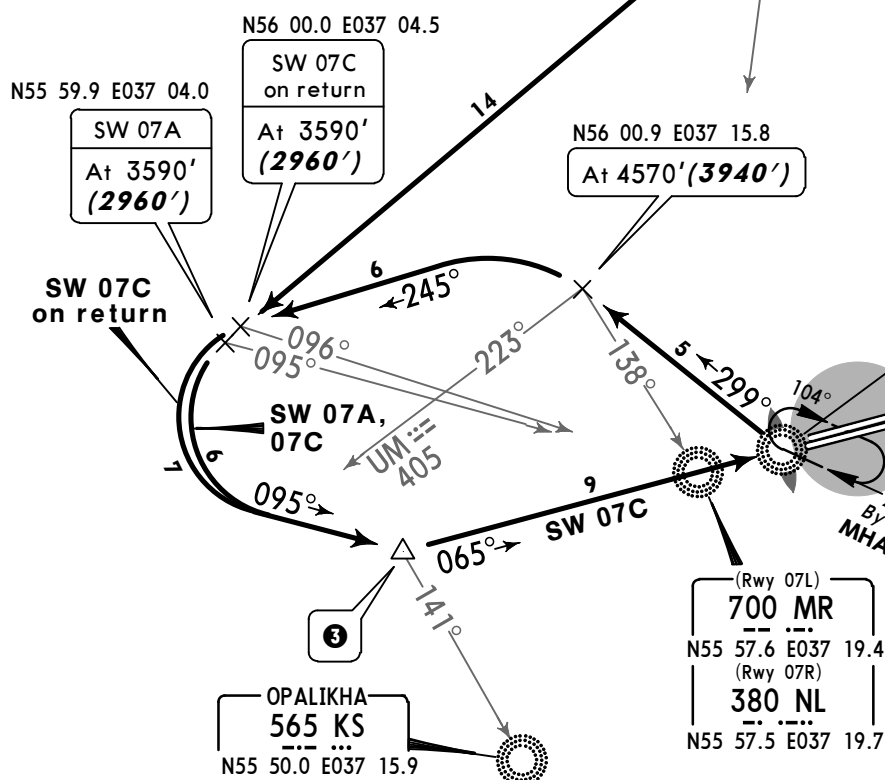


(IAF)
SAVELOVO
*1285 SW
N56 22.0 E037 25.9

KOSTINO
642 KN
N56 18.0 E037 42.9

(IF) ③
N55 56.2 E037 09.7
RWY 07L
SW 07A
SW 07C on return
At
2590' (1970')
N55 56.0 E037 09.9
RWY 07R
SW 07A
SW 07C on return
At
2590' (1971')

(Rwy 07L)
338 M
N55 58.1 E037 22.3
(Rwy 07R)
770 N
N55 57.9 E037 22.3
FL by ATC

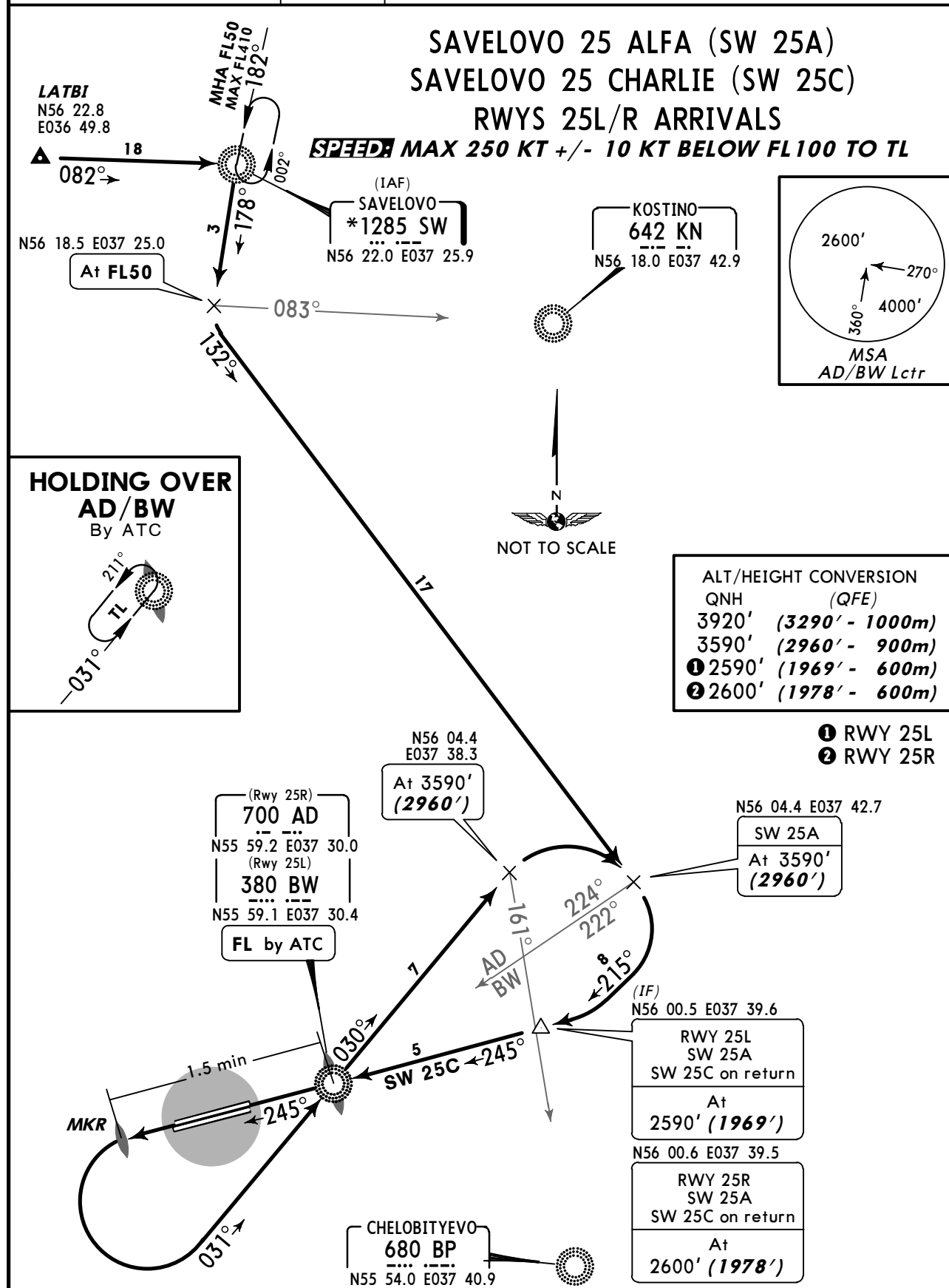


STAR

ROUTING

SW 07A	On 178° bearing, at 042° bearing to KN turn RIGHT, 220° track, at 095° bearing to MR/NL turn LEFT, 095° track, then carry out instrument approach procedure.
SW 07C	On 178° bearing, at 042° bearing to KN turn RIGHT, 220° track, at 095° bearing to MR/NL turn LEFT, 095° track, intercept 065° bearing to M/N, enter holding pattern. Leave holding pattern on 299° bearing from M/N, at 223° bearing to UM turn LEFT, 245° track, at 096° bearing to MR/NL turn LEFT, intercept 095° track, then carry out instrument approach procedure.

ATIS 125.12 (Russian 126.37)	Apt Elev 630'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3290') Execute noise abatement procedures according to ICAO Annex 16, DOC 8168.
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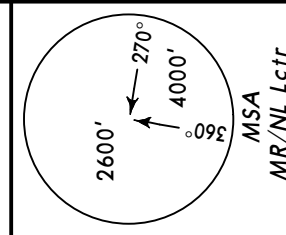
STAR	ROUTING
SW 25A	On 178° bearing, at 083° bearing to KN turn LEFT, 132° track, at 224° bearing to AD/222° bearing to BW turn RIGHT, 215° track, intercept final.
SW 25C	On 178° bearing, at 083° bearing to KN turn LEFT, 132° track, at 224° bearing to AD/222° bearing to BW turn RIGHT, 215° track, intercept 245° bearing to AD/BW, continue on 245° bearing for 1.5 min, turn LEFT, enter holding pattern. Leave holding pattern on 030° bearing from AD/BW to N56 04.4 E037 38.3, turn RIGHT, 215° track, intercept final.

ATIS
125.12 (Russian 126.37)

Apt Elev
630'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')

COMMUNICATION FAILURE RWYS 07L/R AFTER ENTERING MOSCOW AREA

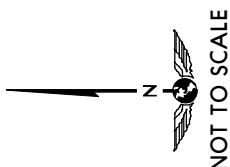


ALT/HEIGHT CONVERSION
QNH (QFE)
3920' (3290' - 1000m)
3590' (2960' - 900m)
① 2590' (1970' - 600m)
② 2590' (1971' - 600m)

① RWY 07L
② RWY 07R

(IAF) SVELOVO
*1285 SW
N56 22.0 E037 25.9
MHA FL50
MAX FL410
182°
002°
178°
13°
2670 (2040)
SW 07A

KOSTINO
642 KN
N56 18.0 E037 42.9



GINAP
N56 00.6 E037 48.2

BESTA
N55 55.0 E037 44.5

(RWY 07L)
338 M
N55 58.1 E037 22.3
(RWY 07R)
770 N
N55 57.9 E037 22.3

OKLIT
N55 50.0 E037 21.0

IVANOVSKOYE
405 UM
N55 52.0 E036 54.9

④ (RWY 07L)
700 MR
N55 57.6 E037 19.4
(RWY 07R)
380 NL
N55 57.5 E037 19.7

(IF) ③
N55 56.2 E037 09.7

RWY 07L
At 2590'
(1970')
N55 56.0 E037 09.9
RWY 07R
At 2590'
(1971')

⑤ In case of communication failure after entering Moscow Area join SW holding at last assigned FL, leave holding at FL60 and carry out approach procedure.

SPEED RESTRICTION

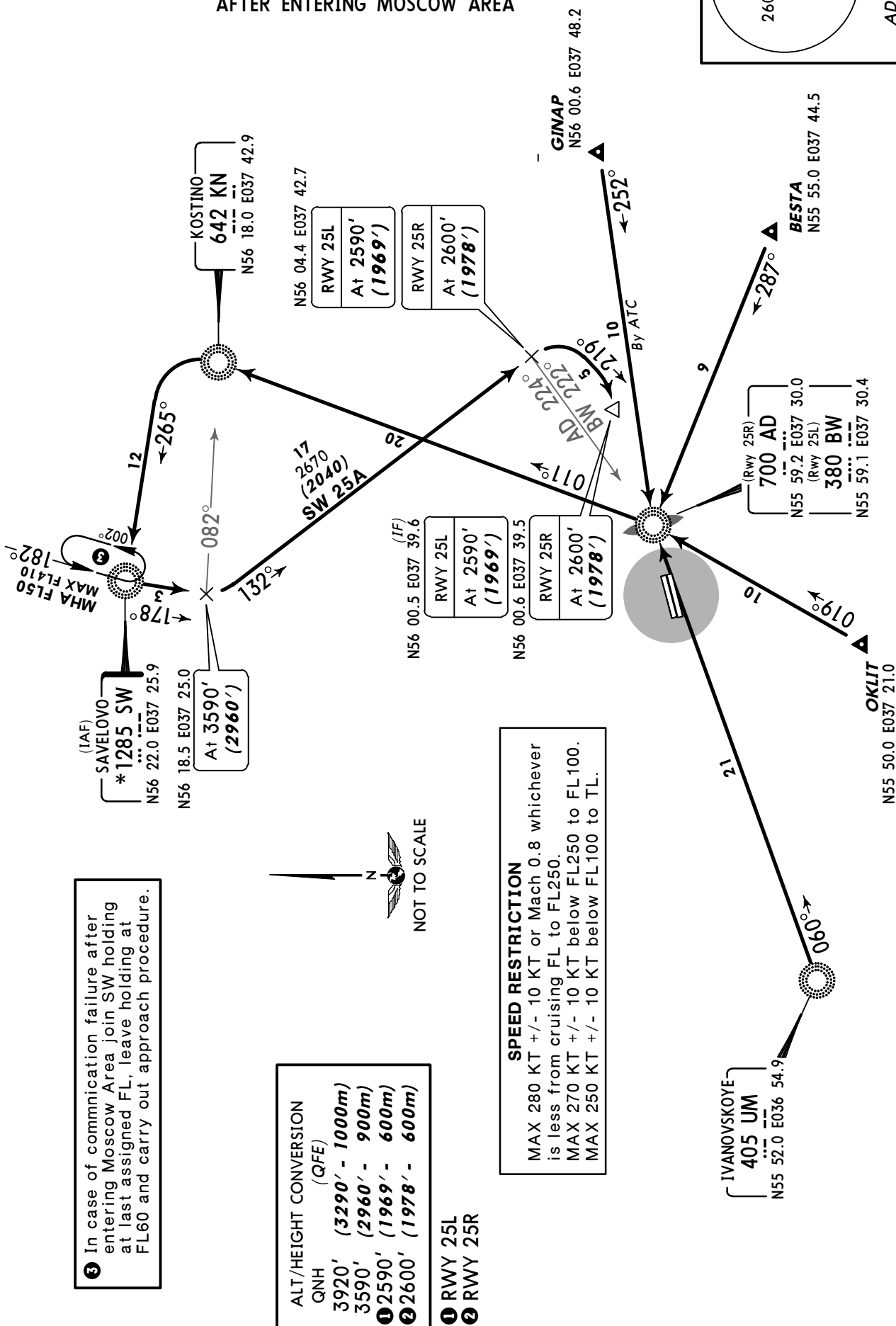
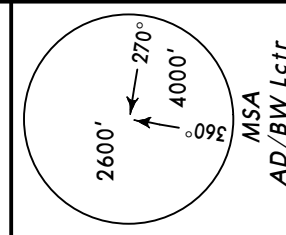
MAX 280 KT +/- 10 KT or Mach 0.8 whichever is less from cruising FL to FL250.
MAX 270 KT +/- 10 KT below FL250 to FL100.
MAX 250 KT +/- 10 KT below FL100 to TL.

ATIS
125.12 (Russian 126.37)

Apt Elev
630'

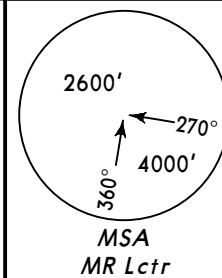
Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')

COMMUNICATION FAILURE RWYS 25L/R AFTER ENTERING MOSCOW AREA

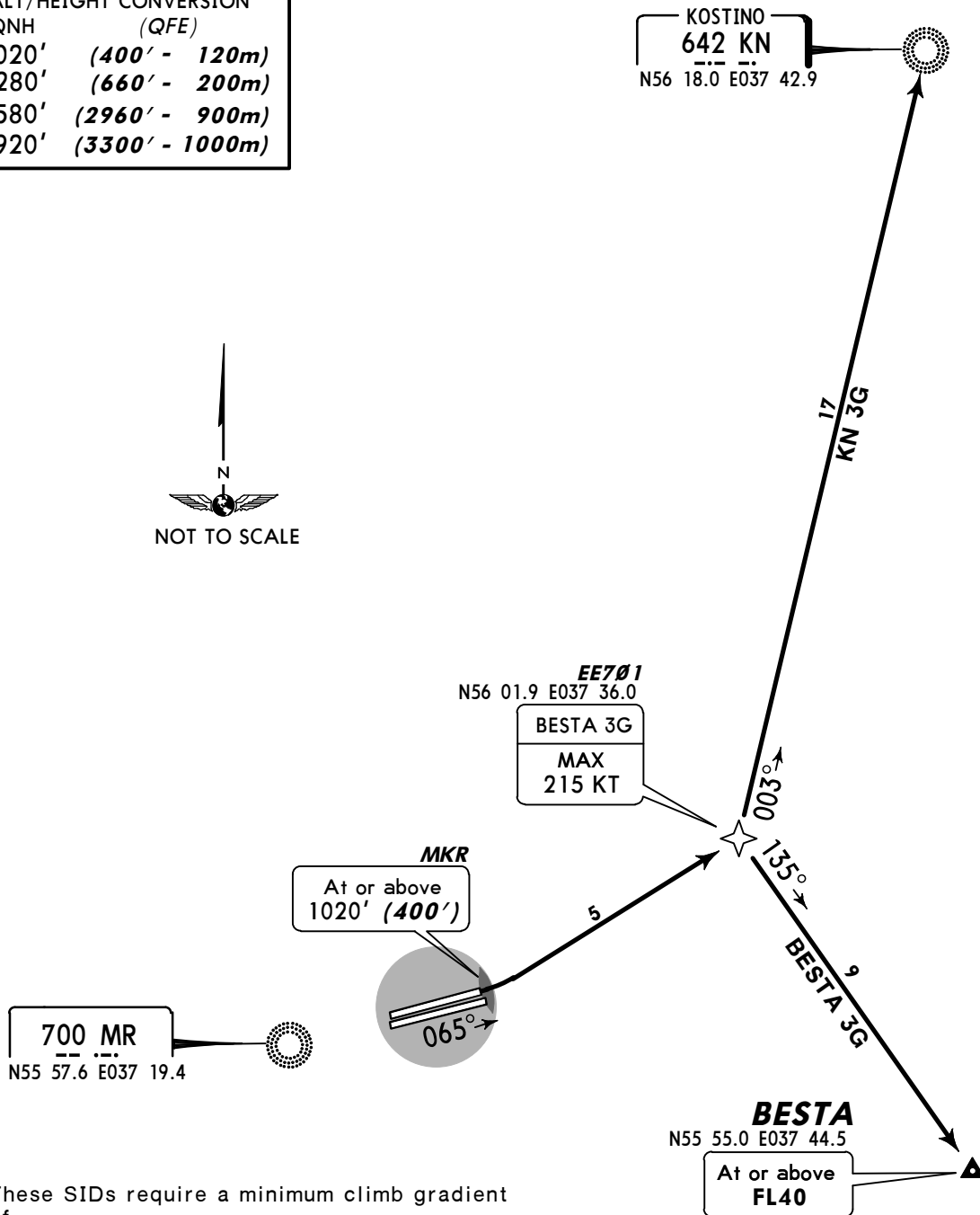


SHEREMETYEVO Radar 118.1	Apt Elev 630'	QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3300') 1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (660'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.
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BESTA 3G [BEST3G], KOSTINO 3G (KN 3G)
RWY 07L RNAV DEPARTURES
~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION	
QNH	(QFE)
1020'	(400' - 120m)
1280'	(660' - 200m)
3580'	(2960' - 900m)
3920'	(3300' - 1000m)



These SIDs require a minimum climb gradient of 7% up to 3580' (2960').

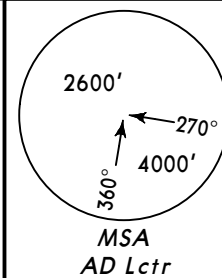
Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127

Initial climb clearance 3580'(2960')

SID	ROUTING
BESTA 3G	DER07L - (1020'+) - EE701 (K215-) - BESTA (FL40+).
KN 3G	DER07L - (1020'+) - EE701 - KN.

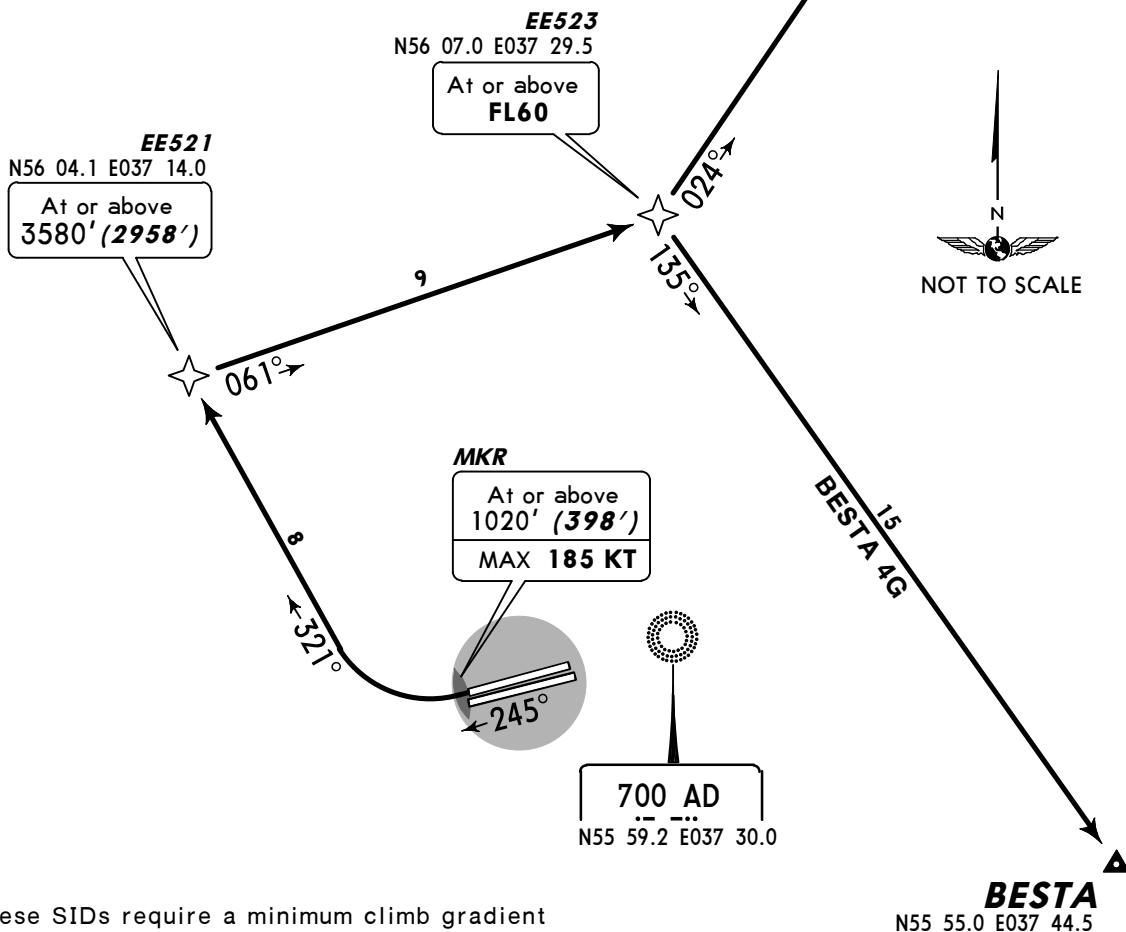
SHEREMETYEVO Radar 118.1	Apt Elev 630'	QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3298') 1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (658'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.
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BESTA 4G [BEST4G], KOSTINO 4G (KN 4G)
RWY 25R RNAV DEPARTURES
~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION	QNH	(QFE)
1020'	(398' - 120m)	
1280'	(658' - 200m)	
3580'	(2958' - 900m)	
3920'	(3298' - 1000m)	

KOSTINO
642 KN
N56 18.0 E037 42.9



These SIDs require a minimum climb gradient of 7% up to 3580' (2958').

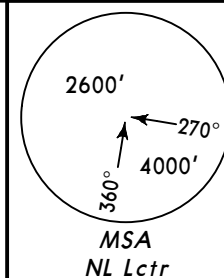
Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127

Initial climb clearance 3580'(2958')

SID	ROUTING
BESTA 4G	DER25R - (1020'+; K185-) - EE521 (3580'+) - EE523 (FL60+) - BESTA.
KN 4G	DER25R - (1020'+; K185-) - EE521 (3580'+) - EE523 (FL60+) - KN.

SHEREMETYEVO Radar 118.1	Apt Elev 630'	QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3301') 1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (661'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.
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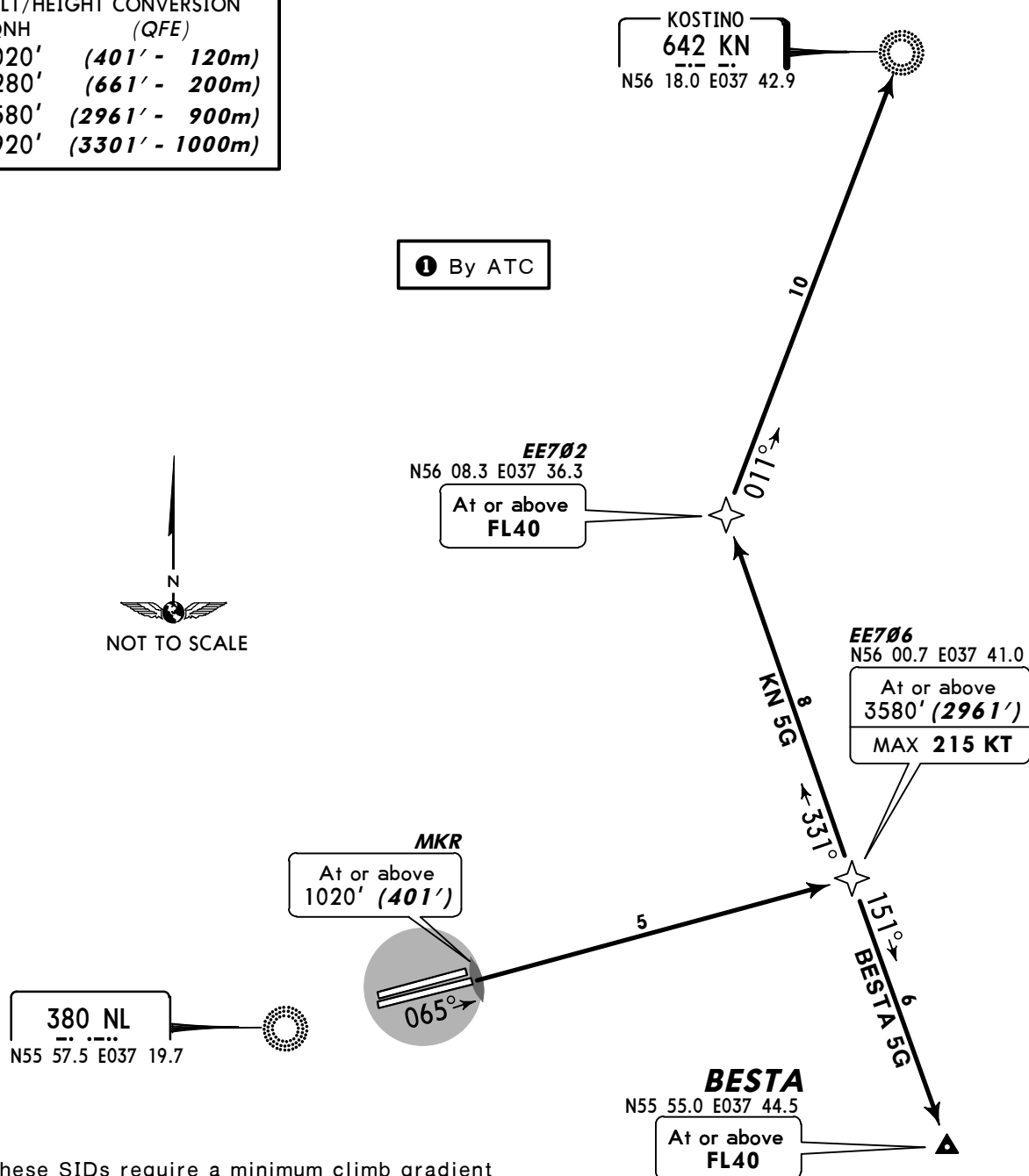
BESTA 5G [BEST5G]①, KOSTINO 5G (KN 5G)
RWY 07R RNAV DEPARTURES
~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION	
QNH (QFE)	
1020'	(401' - 120m)
1280'	(661' - 200m)
3580'	(2961' - 900m)
3920'	(3301' - 1000m)



① By ATC



These SIDs require a minimum climb gradient of 7% up to 3580' (2961').

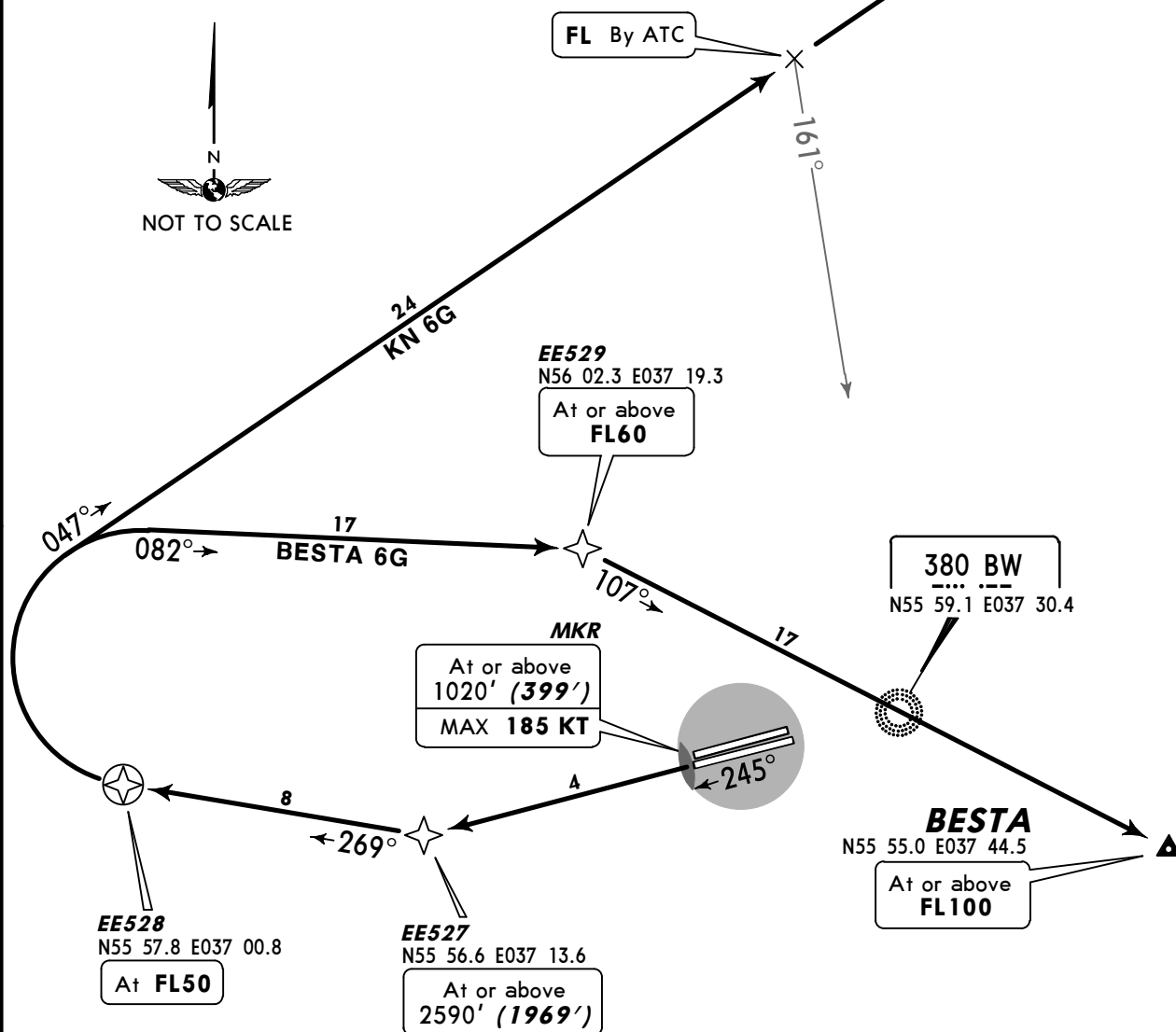
Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127

Initial climb clearance 3580'(2961')

SID	ROUTING
BESTA 5G ①	DER07R - (1020'+) - EE706 (3580'+; K215-) - BESTA (FL40+).
KN 5G	DER07R - (1020'+) - EE706 (3580'+; K215-) - EE702 (FL40+) - KN.

QNH on request (**QFE**) Trans level: By ATC Trans alt: 3920' (**3299'**)
 1. Contact SHEREMETYEVO Radar immediately after climbing to 1280'
 (659'). 2. Execute noise abatement procedures according to ICAO
 Annex 16, DOC 8168. Refer to 20-1P pages.

KOSTINO
642 KN
N56 18.0 E037 42.9



SID	ROUTING
BESTA 6G	DER25L - (1020'+; K185-) - EE527 (2590'+) - EE528 (FL50) - EE529 (FL60+) - BESTA (FL100+).
KN 6G	DER25L - (1020'+; K185-) - EE527 (2590'+) - EE528 (FL50) - KN.

ALT/HEIGHT CONVERSION (QFE)

QNH	(400' - 120m)	(660' - 200m)	(3580' - 2960m)	(3920' - 1000m)
1020'	(400' - 120m)	(660' - 200m)	(3580' - 2960m)	(3920' - 1000m)
1280'	(660' - 200m)	(920' - 280m)	(3840' - 3220m)	(4180' - 1260m)
3580'	(2960' - 900m)	(3300' - 1000m)	(3920' - 1200m)	(4280' - 1300m)
3920'	(3300' - 1000m)	(3660' - 1120m)	(4280' - 1300m)	(4640' - 1400m)

BUZHAROVO 1080 AR
N55 59.0 E036 47.9

EE703
N55 59.9 E036 52.5
UM 3G
At or above FL100

700 MR
N55 57.6 E037 19.4

EE701
N56 01.9 E037 36.0

EE702
N56 08.3 E037 36.3
At or above FL40

IVANOVSKOYE 405 UM
N55 52.0 E036 54.9

NOT TO SCALE

These SIDs require a minimum climb gradient of 7% up to 3580' (2960').

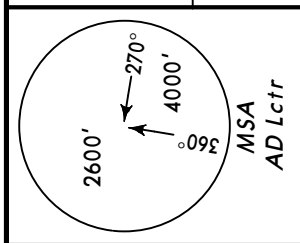
Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127

Initial climb clearance 3580'(2960')

ROUTING

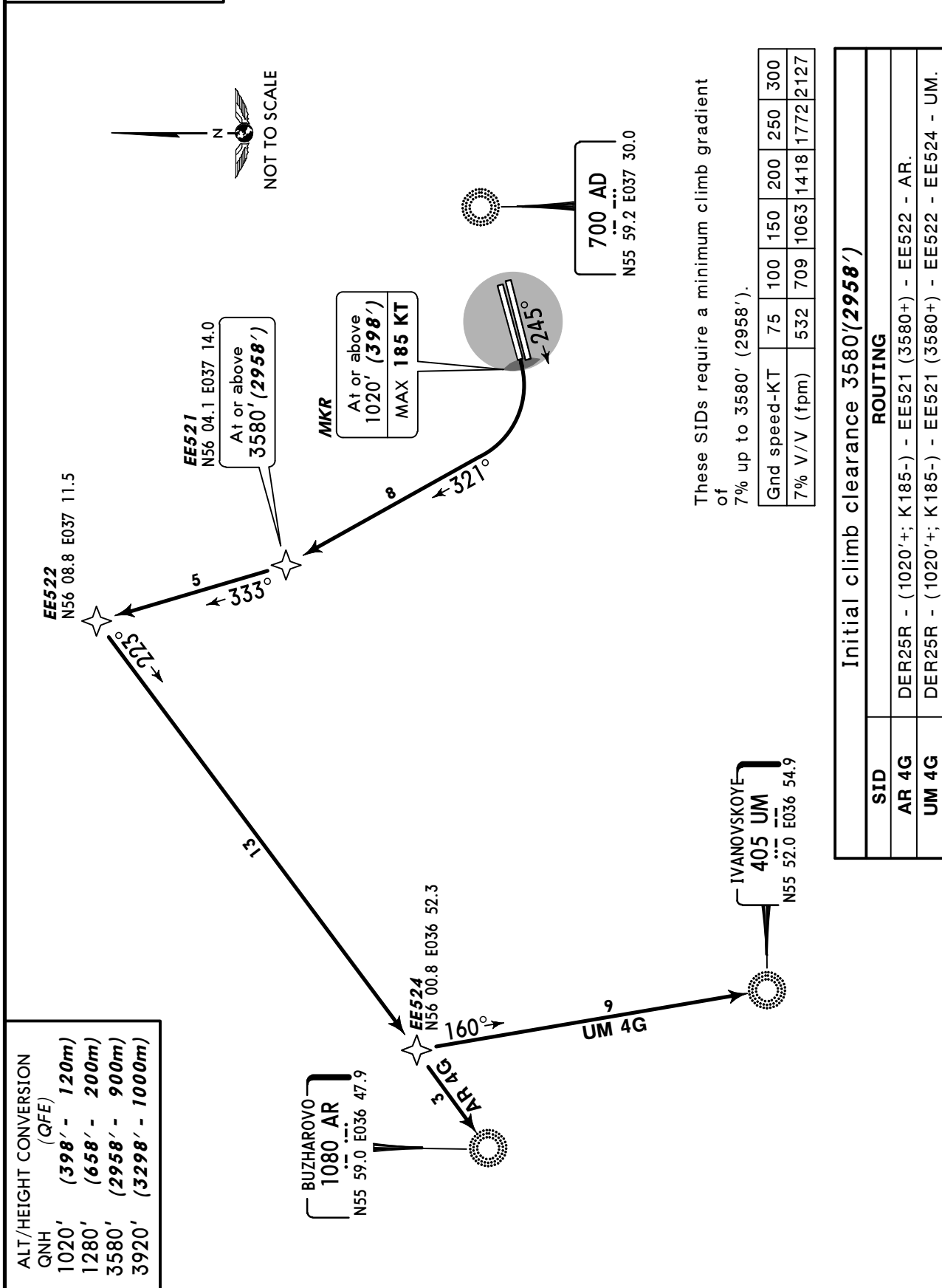
SID	ROUTING
AR 3G	DER07L - (1020'+) - EE701 - EE702 (FL40+) - AR.
UM 3G	DER07L - (1020'+) - EE701 - EE702 (FL40+) - EE703 (FL100+) - UM.

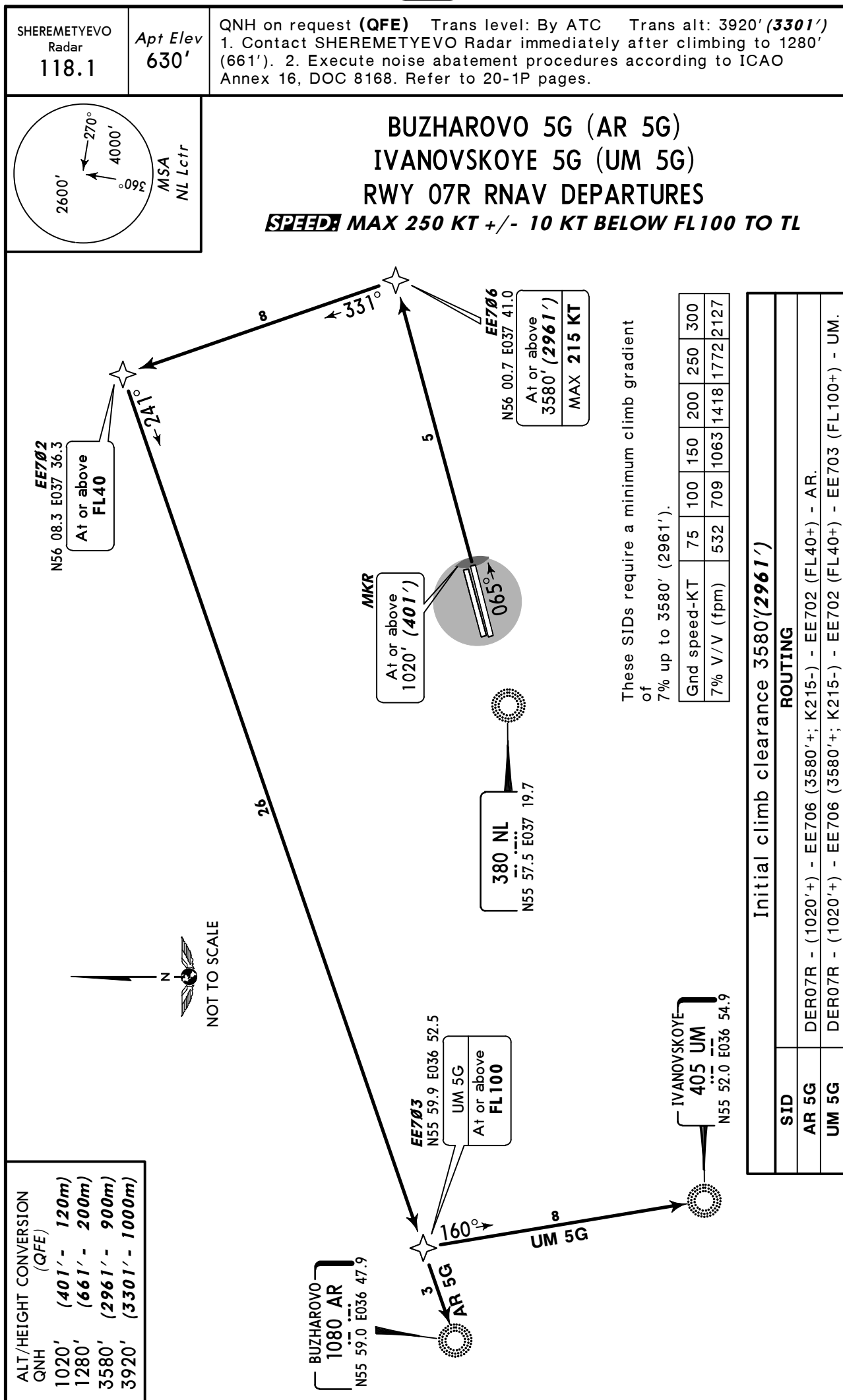
SHEREMETYEVO Radar 118.1	Apt Elev 630'	QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3298') 1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (658'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.
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BUZHAROVO 4G (AR 4G)
IVANOVSKOYE 4G (UM 4G)
RWY 25R RNAV DEPARTURES

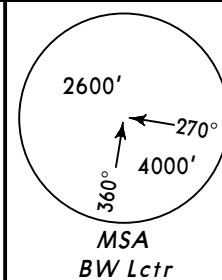
SPEED: MAX 250 KT +/- 10 KT BELOW FL100 TO TL



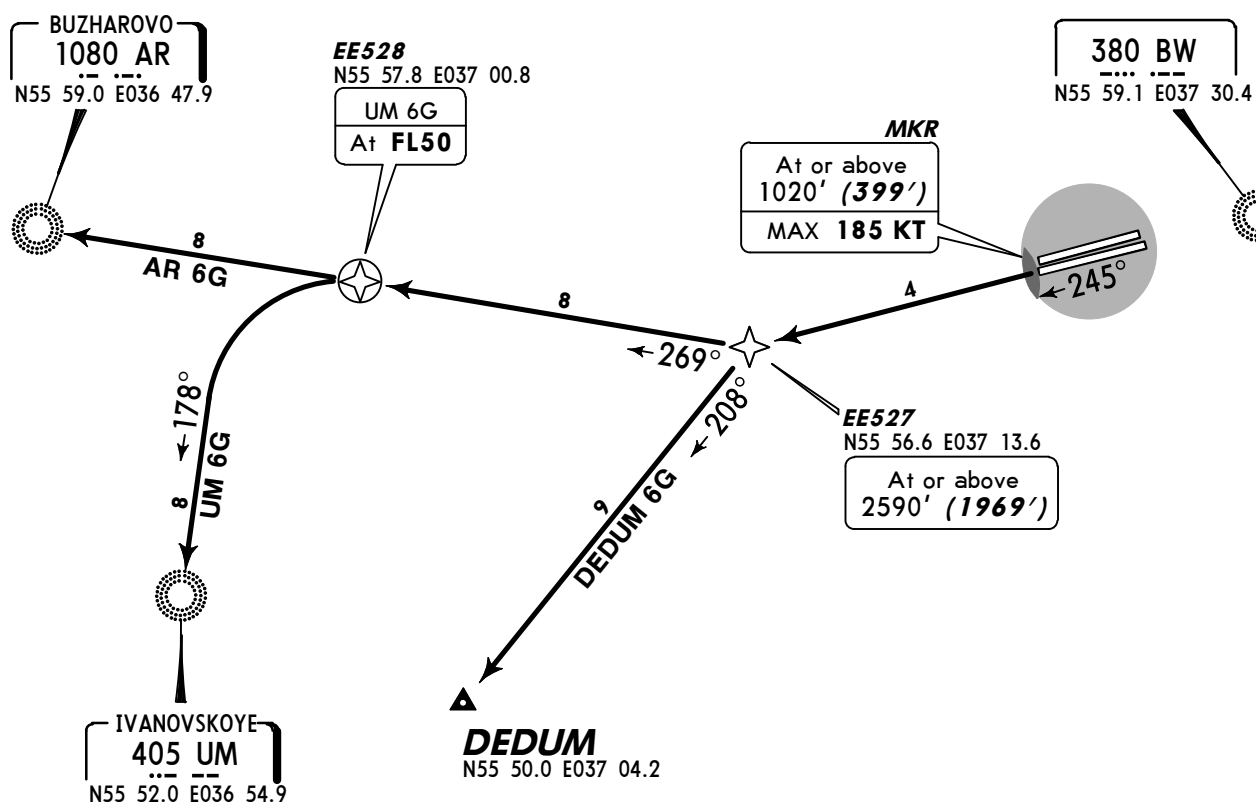


SHEREMETYEVO Radar 118.1	Apt Elev 630'	QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3299') 1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (659'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.
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BUZHAROVO 6G (AR 6G)
DEDUM 6G [DEDU6G] ①
IVANOVSKOYE 6G (UM 6G) ①
RWY 25L RNAV DEPARTURES
~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



① By ATC



ALT/HEIGHT CONVERSION		
QNH	(QFE)	
1020'	(399' - 120m)	
1280'	(659' - 200m)	
2590'	(1969' - 600m)	
3580'	(2959' - 900m)	
3920'	(3299' - 1000m)	

Initial climb clearance 3580'(2959')

SID	ROUTING
AR 6G	DER25L - (1020'+; K185-) - EE527 (2590'+) - AR.
DEDUM 6G ①	DER25L - (1020'+; K185-) - EE527 (2590'+) - DEDUM.
UM 6G ①	DER25L - (1020'+; K185-) - EE527 (2590'+) - EE528 (FL50) - UM.

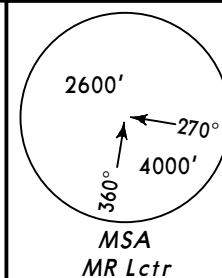
SHEREMETYEVO
Radar
118.1

Apt Elev
630'

QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3300')
1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (660'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.

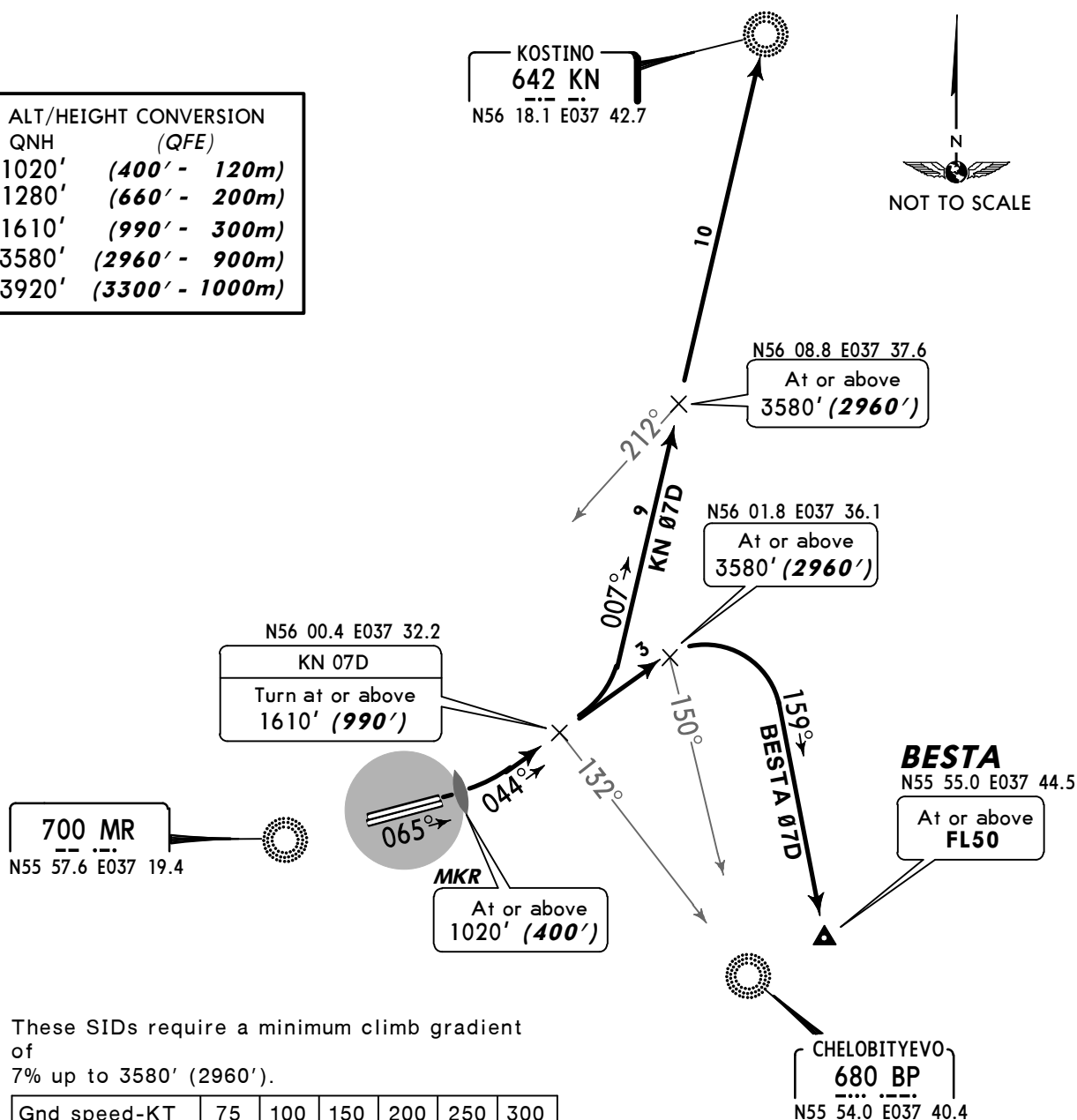
**BESTA 07 DELTA (BESTA 07D) [BESØ7D]
KOSTINO 07 DELTA (KN 07D)
RWY 07L DEPARTURES**

SPEED: MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION	
QNH	(QFE)
1020'	(400' - 120m)
1280'	(660' - 200m)
1610'	(990' - 300m)
3580'	(2960' - 900m)
3920'	(3300' - 1000m)

KOSTINO
642 KN
N56 18.1 E037 42.7



These SIDs require a minimum climb gradient of 7% up to 3580' (2960').

Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127

Initial climb clearance 3580'(2960')

INITIAL CLIMB

Climb straight ahead to at or above 1020' (400'), to back course MKR, turn LEFT, 044° track, proceed with maximum climb gradient according to Flight Manual.

SID	ROUTING
BESTA 07D	When crossing 150° bearing to BP turn RIGHT, 159° track to BESTA climbing to assigned FL.
KN 07D	When crossing 132° bearing to BP turn LEFT, intercept 007° bearing to KN climbing to assigned FL.

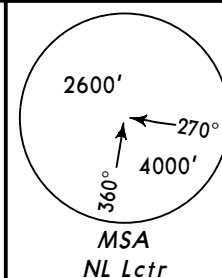
SHEREMETYEVO
Radar
118.1

Apt Elev
630'

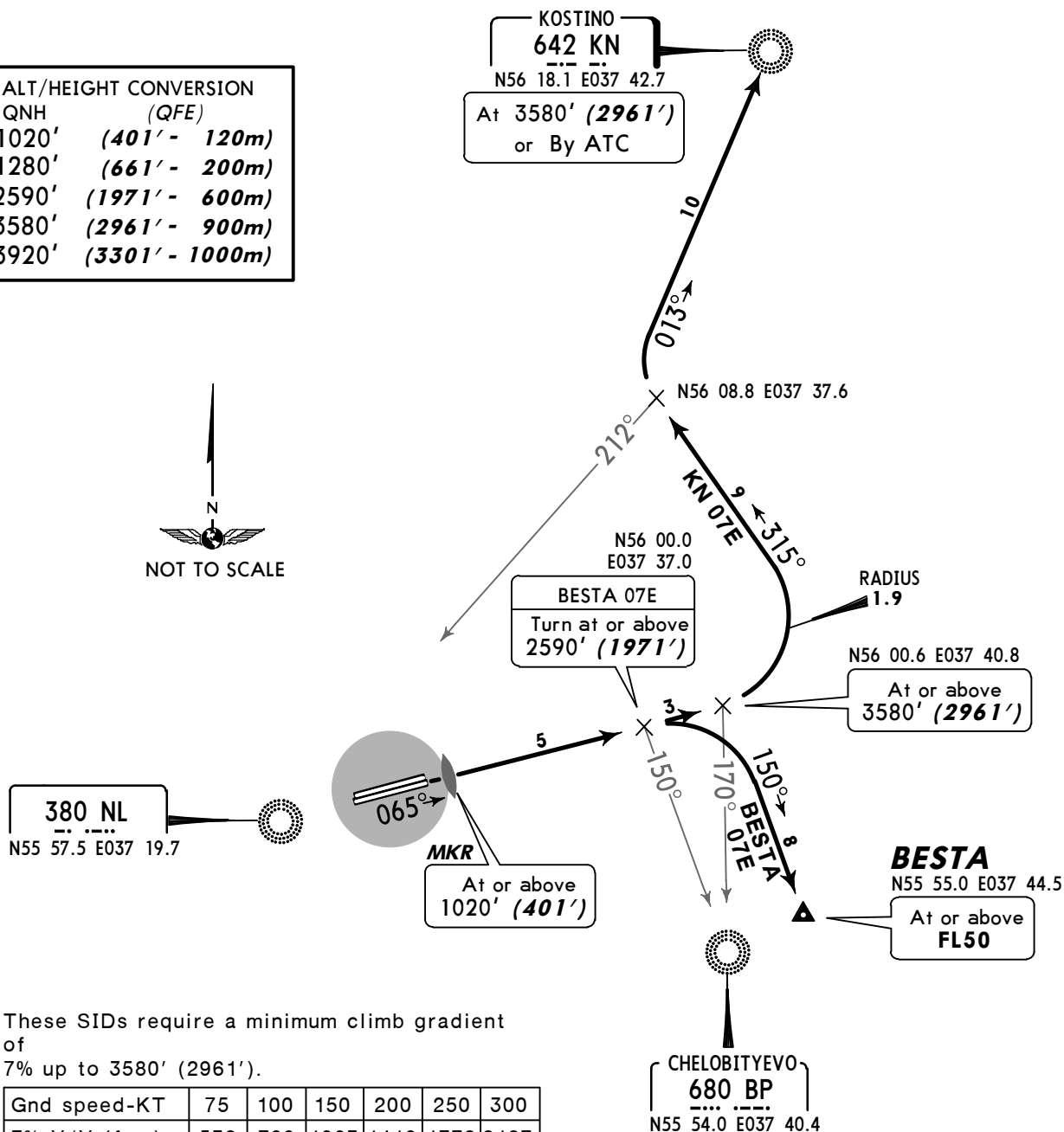
QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3301')
1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (661'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.

BESTA 07 ECHO (BESTA 07E) [BESØ7E]
KOSTINO 07 ECHO (KN 07E)
RWY 07R DEPARTURES

SPEED: MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION	
QNH	(QFE)
1020'	(401' - 120m)
1280'	(661' - 200m)
2590'	(1971' - 600m)
3580'	(2961' - 900m)
3920'	(3301' - 1000m)



These SIDs require a minimum climb gradient of 7% up to 3580' (2961').

Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127

Initial climb clearance 3580'(2961')

INITIAL CLIMB

Climb straight ahead to at or above 1020' (401'), to back course MKR with maximum climb gradient according to Flight Manual.

SID	ROUTING
BESTA 07E	065° track, when crossing 150° bearing to BP turn RIGHT, 150° track to BESTA climbing to assigned FL.
KN 07E	065° track, when crossing 170° bearing to BP turn LEFT, 315° track, when crossing 212° bearing to NL turn RIGHT, intercept 013° bearing to KN.

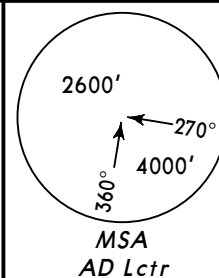
SHEREMETYEVO
Radar
118.1

Apt Elev
630'

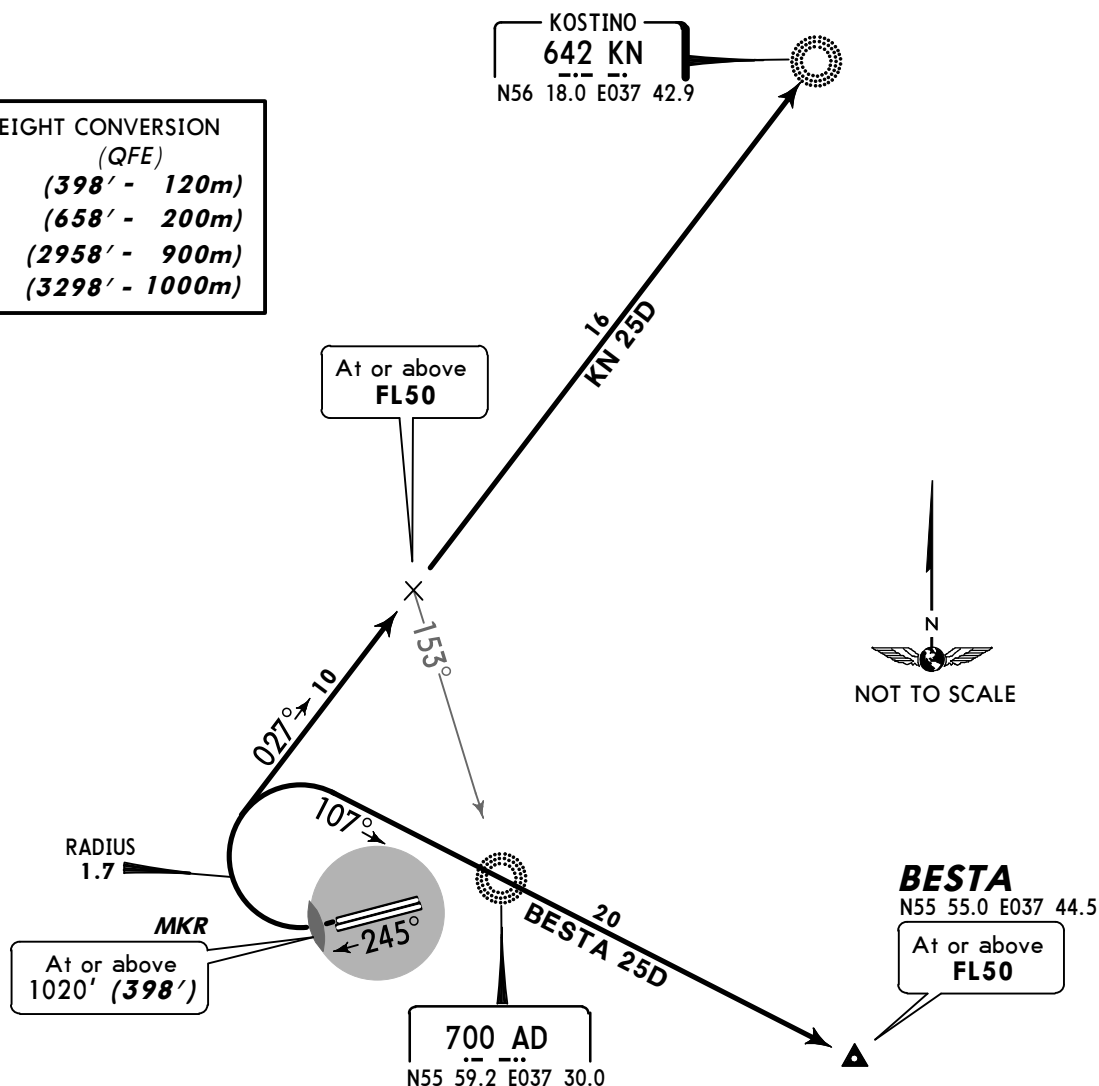
QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3298')
1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (658'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.

**BESTA 25 DELTA (BESTA 25D) [BES25D]
KOSTINO 25 DELTA (KN 25D)
RWY 25R DEPARTURES**

~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



ALT/HEIGHT CONVERSION	
QNH	(QFE)
1020'	(398' - 120m)
1280'	(658' - 200m)
3580'	(2958' - 900m)
3920'	(3298' - 1000m)



These SIDs require a minimum climb gradient of 7% up to 3580' (2958').

Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127

Initial climb clearance 3580'(2958')

INITIAL CLIMB

Climb straight ahead to at or above 1020' (398'), to back course MKR with maximum climb gradient according to Flight Manual.

SID

ROUTING

BESTA 25D

Turn RIGHT, 107° track to BESTA.

KN 25D

Turn RIGHT, intercept 027° bearing to KN climbing to assigned FL.

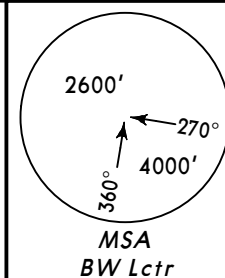
SHEREMETYEVO Radar 118.1	Apt Elev 630'	QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3299') 1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (659'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.
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BESTA 25 ECHO (BESTA 25E) [BES25E]

KOSTINO 25 ECHO (KN 25E)

RWY 25L DEPARTURES

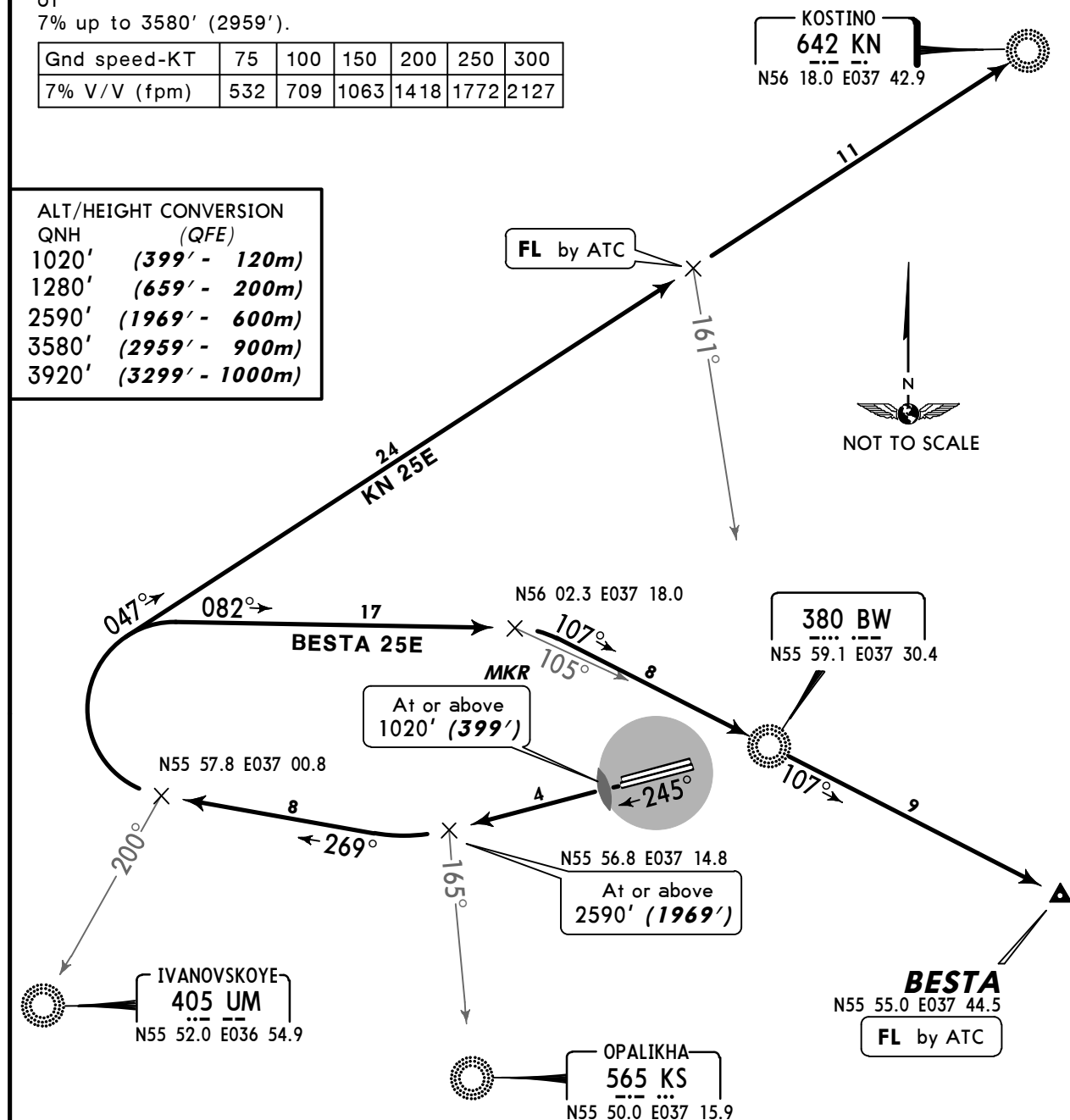
~~SPEED~~ MAX 250 KT +/- 10 KT BELOW FL100 TO TL



These SIDs require a minimum climb gradient of 7% up to 3580' (2959').

Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127

ALT/HEIGHT CONVERSION	QNH (QFE)
1020'	(399' - 120m)
1280'	(659' - 200m)
2590'	(1969' - 600m)
3580'	(2959' - 900m)
3920'	(3299' - 1000m)

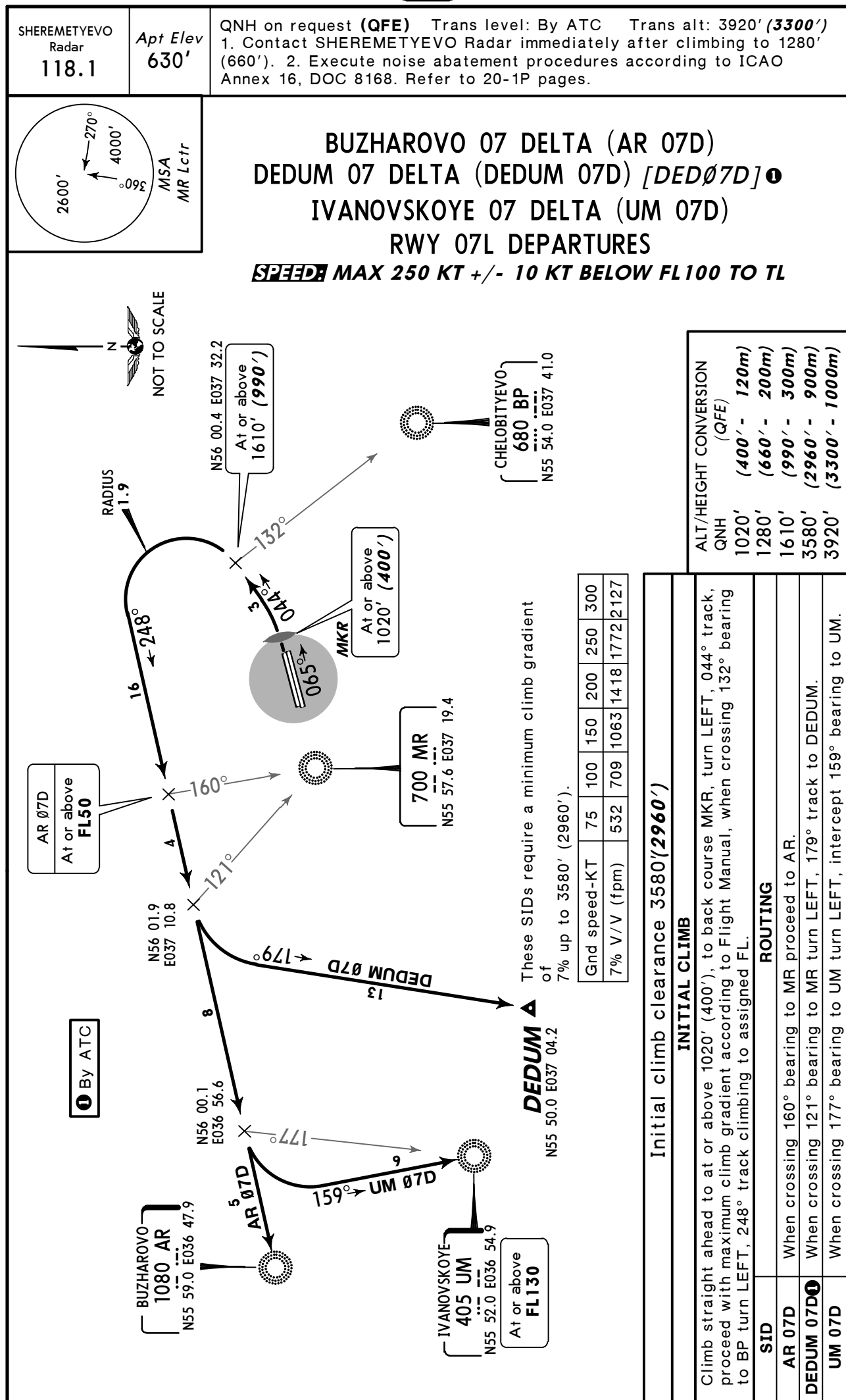


Initial climb clearance 3580'(2959')

INITIAL CLIMB

Climb straight ahead to at or above 1020' (399'), to back course MKR with maximum climb gradient according to Flight Manual, 245° track, when crossing 165° bearing to KS turn RIGHT, 269° track climbing to assigned FL, when crossing 200° bearing to UM turn RIGHT.

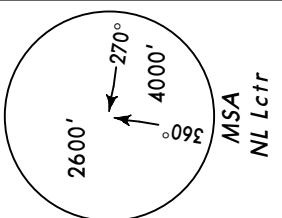
SID	ROUTING
BESTA 25E	082° track, when crossing 105° bearing to BW turn RIGHT, 107° track to BESTA.
KN 25E	047° track climbing to assigned FL, to KN.



SHEREMETYEVO
Radar
118.1

Apt Elev
630'

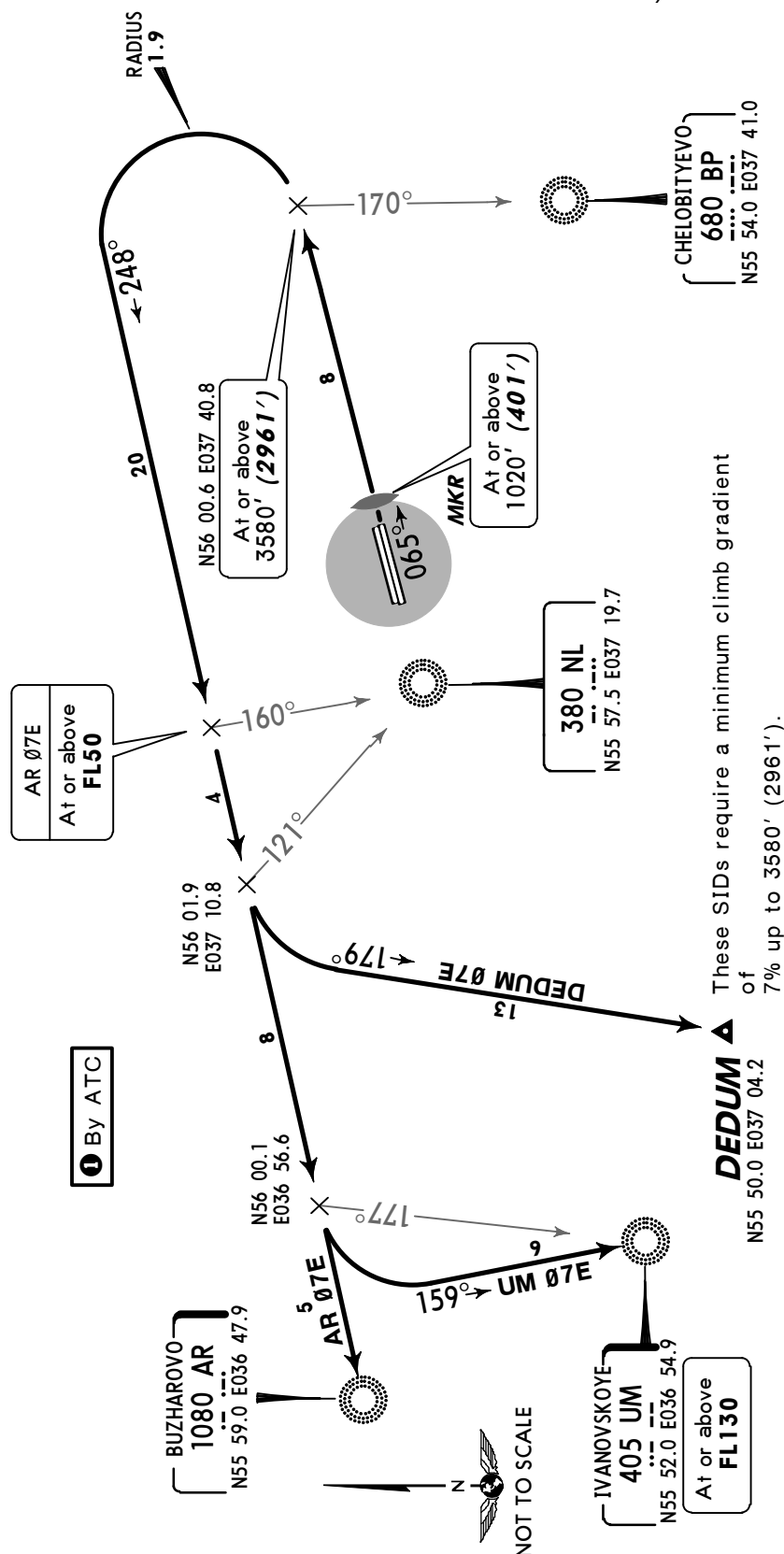
QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3301')
1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (661'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.



BUZHAROVO 07 ECHO (AR 07E)
DEDUM 07 ECHO (DEDUM 07E) [DEDØ7E] ①
IVANOVSKOYE 07 ECHO (UM 07E)

RWY 07R DEPARTURES

SPEED: MAX 250 KT +/- 10 KT BELOW FL100 TO TL



These SIDs require a minimum climb gradient of 7% up to 3580' (2961').

Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127

Initial climb clearance 3580'(2961')

INITIAL CLIMB

Climb straight ahead to at or above 1020' (401'), to back course MKR, proceed with maximum climb gradient according to Flight Manual, 065° track, when crossing 170° bearing to BP turn LEFT, 248° track climbing to assigned FL.

ROUTING

SID	ROUTING
AR 07E	To AR.
DEDUM 07E①	When crossing 121° bearing to NL turn LEFT, 179° track to DEDUM.
UM 07E	When crossing 177° bearing to UM turn LEFT, intercept 159° bearing to UM.

ALT/HEIGHT CONVERSION (QFE)
QNH
1020' (401' - 120m)
1280' (661' - 200m)
3580' (2961' - 900m)
3920' (3301' - 1000m)

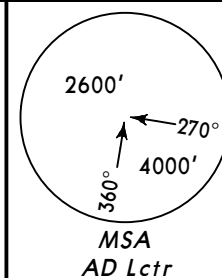
SHEREMETYEVO
Radar
118.1

Apt Elev
630'

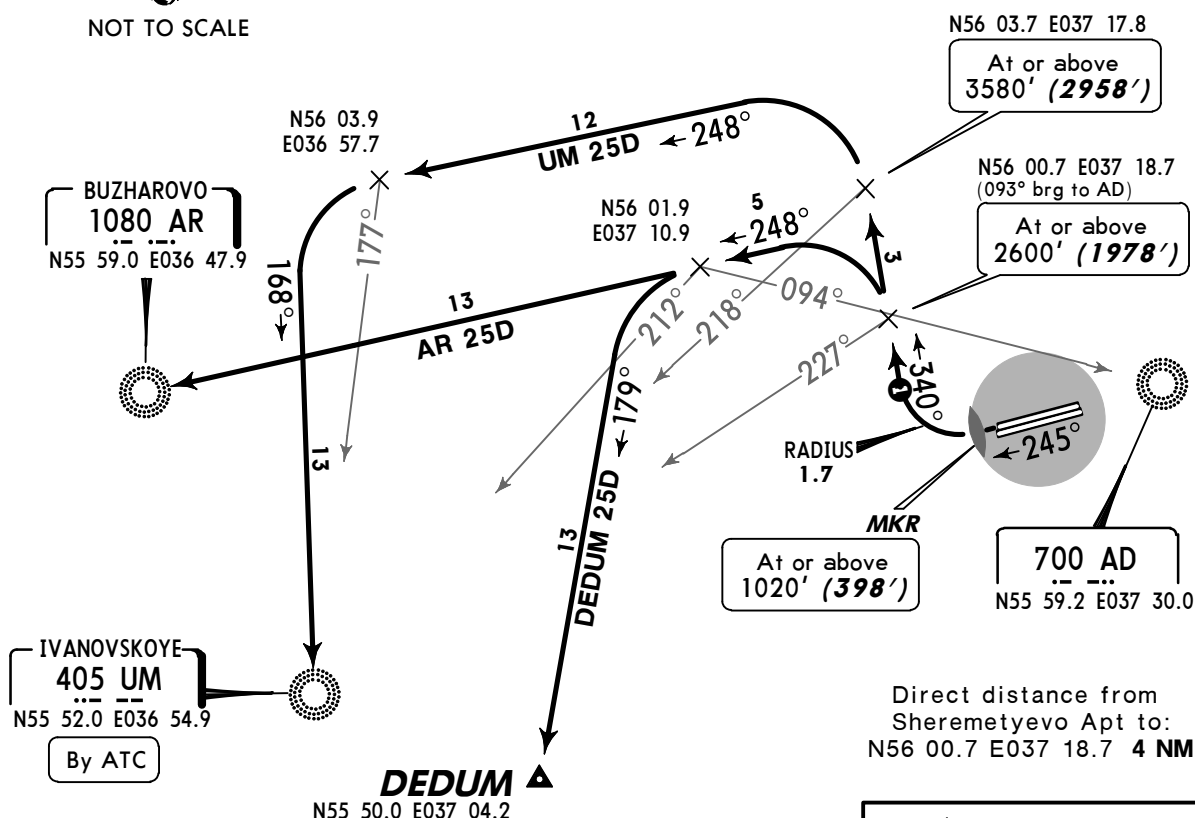
QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3298')
1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (658'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.

BUZHAROVO 25 DELTA (AR 25D)
DEDUM 25 DELTA (DEDUM 25D) [DED25D]
IVANOVSKOYE 25 DELTA (UM 25D)
RWY 25R DEPARTURES

SPEEDS: MAX 250 KT +/- 10 KT BELOW FL100 TO TL



① It is prohibited to reduce 340° track until crossing 093° bearing to AD, unless otherwise required for safety provision of further continuation of a flight.



These SIDs require a minimum climb gradient of 7% up to 3580' (2958').

Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127

ALT/HEIGHT CONVERSION	
QNH (QFE)	
1020'	(398' - 120m)
1280'	(658' - 200m)
2600'	(1978' - 600m)
3580'	(2958' - 900m)
3920'	(3298' - 1000m)

Initial climb clearance 3580'(2958')

INITIAL CLIMB

Climb straight ahead to at or above 1020' (398'), to back course MKR with maximum climb gradient according to Flight Manual, turn RIGHT, 340° track.

SID	ROUTING
AR 25D	When crossing 093° bearing to AD/227° bearing to UM turn LEFT, intercept 248° bearing to AR climbing to assigned FL.
DEDUM 25D	When crossing 093° bearing to AD/227° bearing to UM turn LEFT, 248° track, when crossing 212° bearing to UM/094° bearing to AD turn LEFT, 179° track to DEDUM.
UM 25D	When crossing 218° bearing to UM turn LEFT, 248° track, when crossing 177° bearing to UM turn LEFT, intercept 168° bearing to UM.

SHEREMETYEVO
Radar
118.1

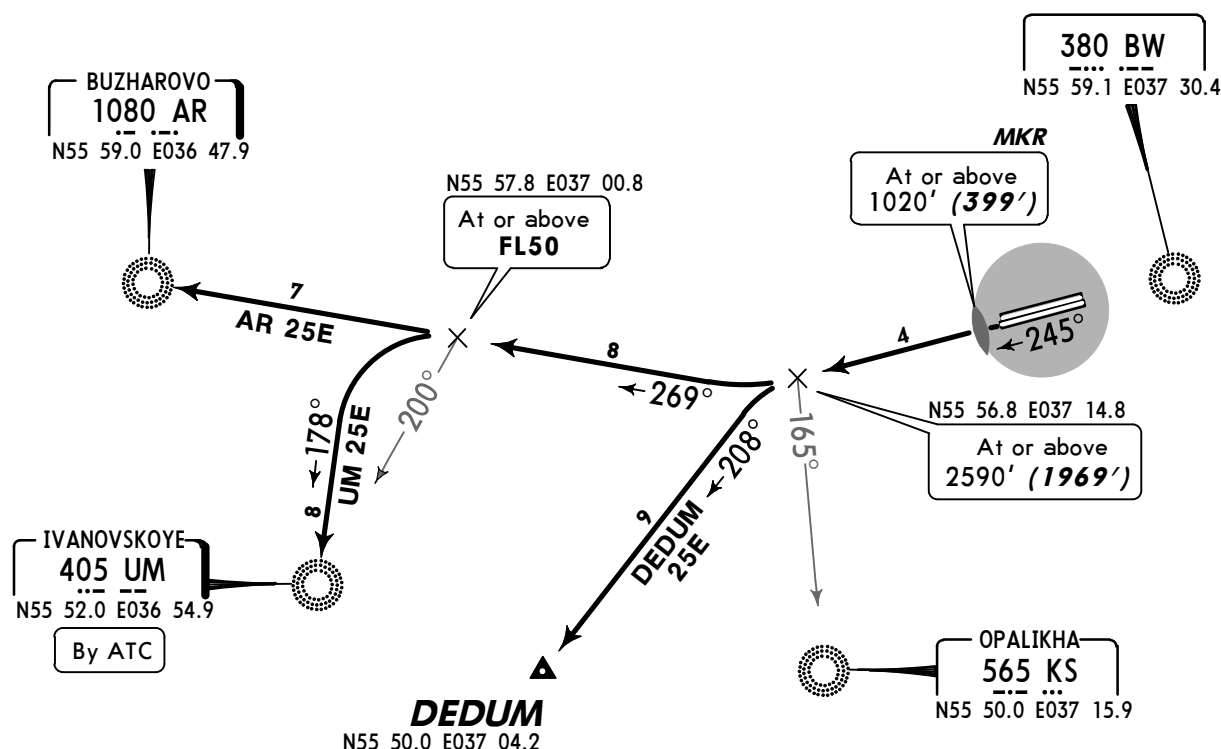
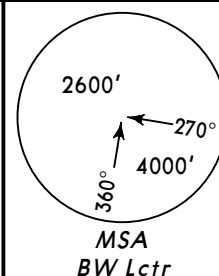
Apt Elev
630'

QNH on request (QFE) Trans level: By ATC Trans alt: 3920' (3299')
1. Contact SHEREMETYEVO Radar immediately after climbing to 1280' (659'). 2. Execute noise abatement procedures according to ICAO Annex 16, DOC 8168. Refer to 20-1P pages.

BUZHAROVO 25 ECHO (AR 25E)
DEDUM 25 ECHO (DEDUM 25E) [DED25E]
IVANOVSKOYE 25 ECHO (UM 25E)

RWY 25L DEPARTURES

SPEED: MAX 250 KT +/- 10 KT BELOW FL100 TO TL



These SIDs require a minimum climb gradient of 7% up to 3580' (2959').

Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127

ALT/HEIGHT CONVERSION	QNH	(QFE)
1020'	(399' - 120m)	
1280'	(659' - 200m)	
2590'	(1969' - 600m)	
3580'	(2959' - 900m)	
3920'	(3299' - 1000m)	

Initial climb clearance 3580'(2959')

INITIAL CLIMB

Climb straight ahead to at or above 1020' (399'), to back course MKR with maximum climb gradient according to Flight Manual, 245° track.

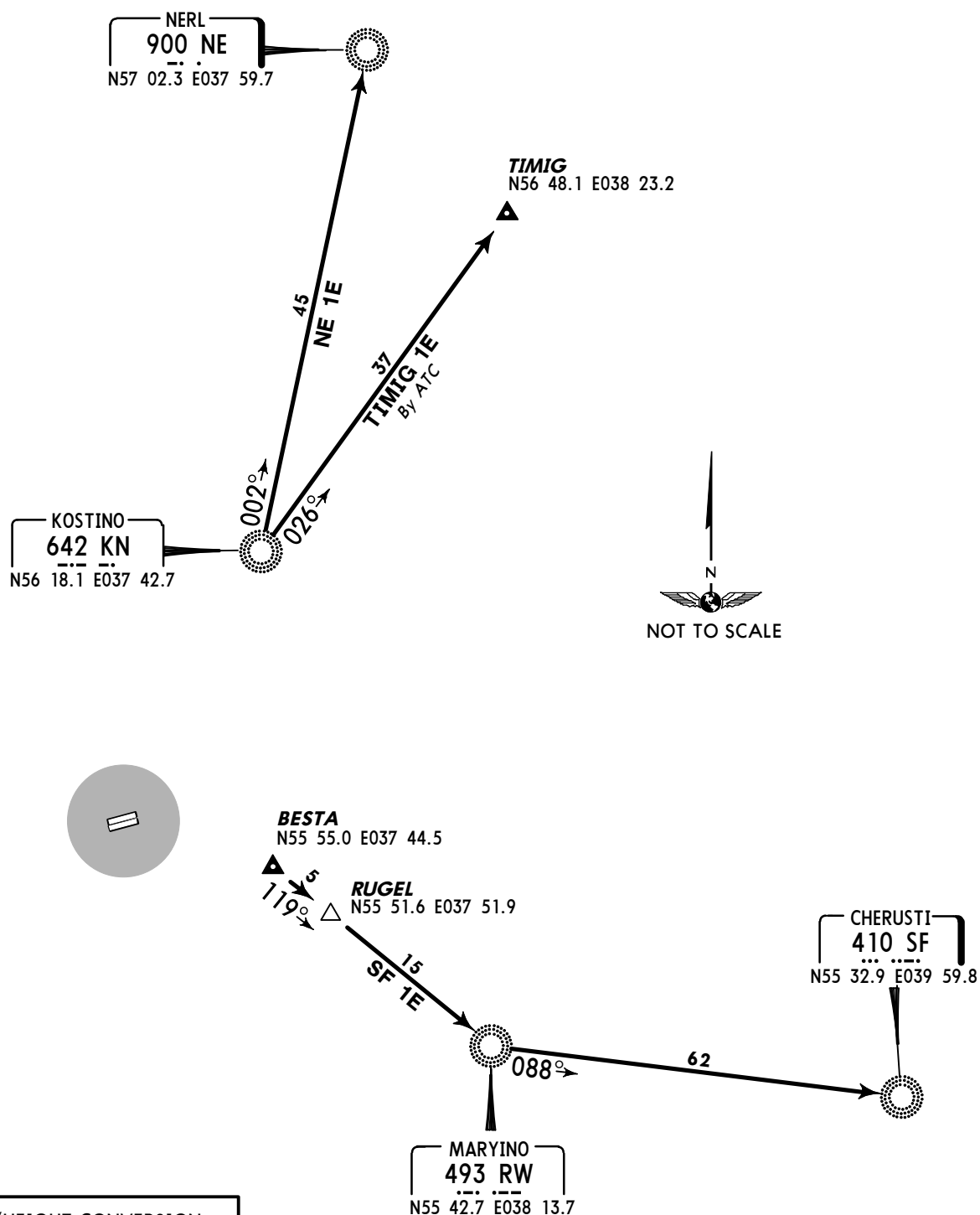
SID	ROUTING
AR 25E	When crossing 165° bearing to KS turn RIGHT, intercept 269° bearing to AR climbing to assigned FL.
DEDUM 25E	When crossing 165° bearing to KS turn LEFT, 208° track to DEDUM climbing to assigned FL.
UM 25E	When crossing 165° bearing to KS turn RIGHT, 269° track climbing to assigned FL, when crossing 200° bearing to UM turn LEFT, intercept 178° bearing to UM.

Apt Elev 630' QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')

NERL 1E (NE 1E), TIMIG 1E [TIM1E]
FROM KN

CHERUSTI 1E (SF 1E)
FROM BESTA

TRANSITIONS



ALT/HEIGHT CONVERSION
QNH (QFE)
3920' (3290' - 1000m)

TRANSITION	ROUTING
NE 1E	From KN to NE.
SF 1E	From BESTA to RUGEL, then to RW, then to SF.
TIMIG 1E	From KN to TIMIG.

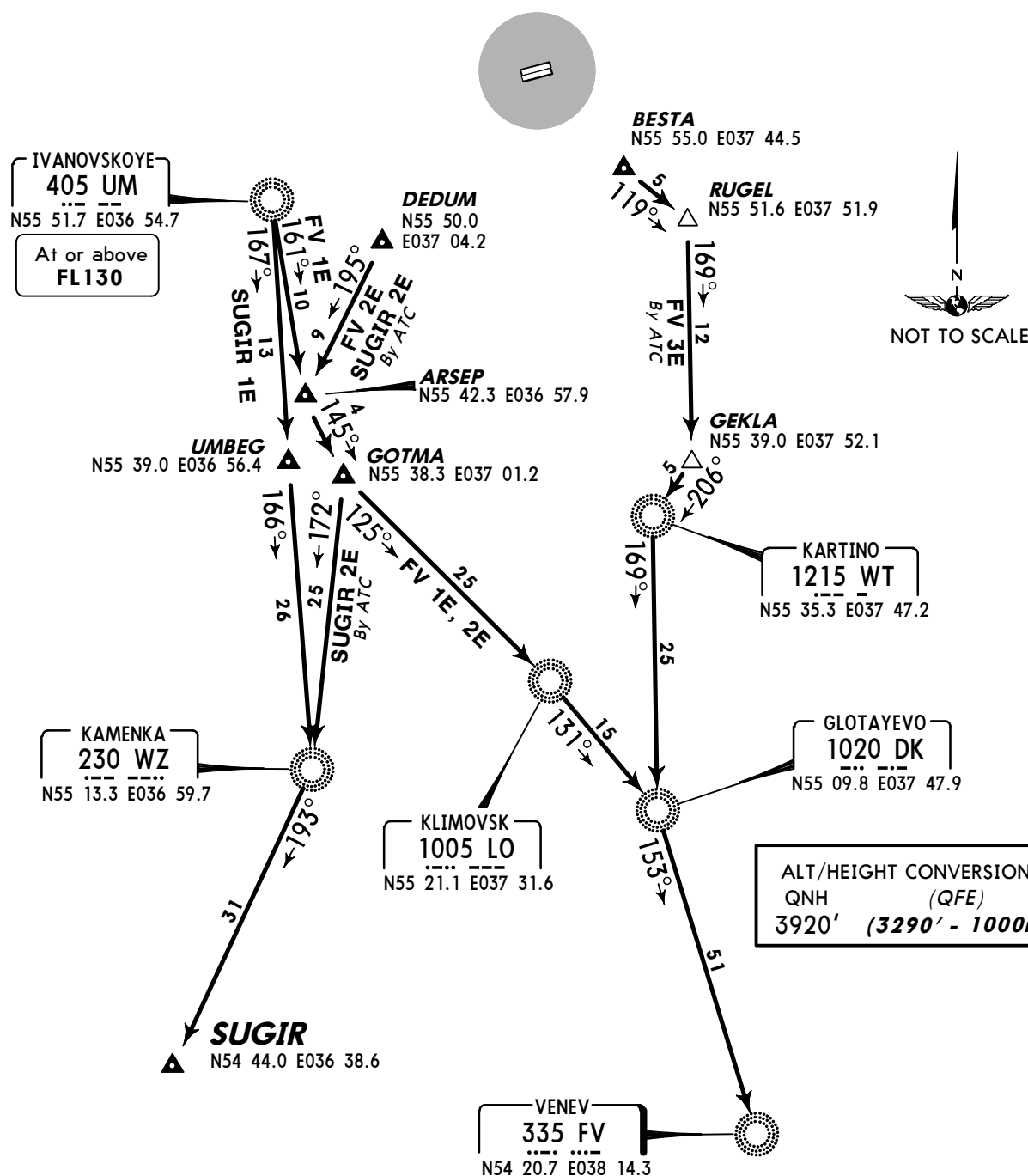
Apt Elev 630'
QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')

SUGIR 1E [SUG1E], VENEV 1E (FV 1E)
FROM UM

SUGIR 2E [SUG2E], VENEV 2E (FV 2E)
FROM DEDUM

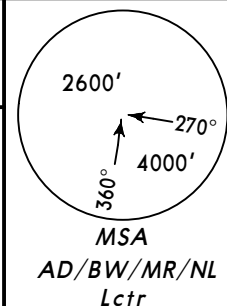
VENEV 3E (FV 3E)
FROM BESTA

TRANSITIONS

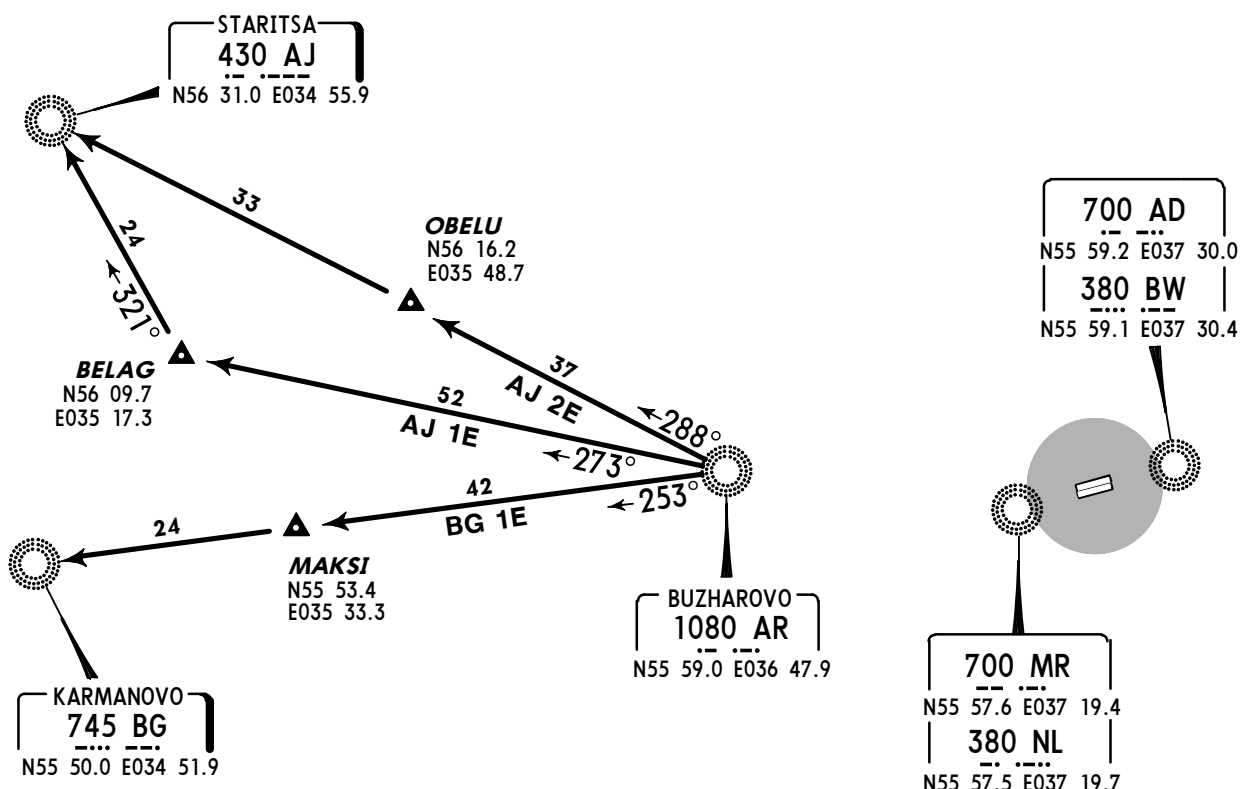


TRANSITION	ROUTING
FV 1E	From UM to ARSEP, then to GOTMA, then to LO, then to DK, then to FV.
FV 2E	From DEDUM to ARSEP, then to GOTMA, then to LO, then to DK, then to FV.
FV 3E	From BESTA to RUGEL, then to GEKLA, then to WT, then to DK, then to FV.
SUGIR 1E	From UM to UMBEG, then to WZ, then to SUGIR.
SUGIR 2E	From DEDUM to ARSEP, then to GOTMA, then to WZ, then to SUGIR.

Apt Elev 630' QNH on request (QFE)
Trans level: By ATC Trans alt: 3920' (3290')

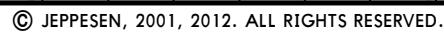


KARMANOVO 1E (BG 1E)
STARITSA 1E (AJ 1E)
STARITSA 2E (AJ 2E)
TRANSITIONS
FROM AR



ALT/HEIGHT CONVERSION
QNH (QFE)
3920' (3290' - 1000m)

TRANSITION	ROUTING
AJ 1E	From AR to BELAG, then to AJ.
AJ 2E	From AR to OBELU, then to AJ.
BG 1E	From AR to MAKSI, then to BG.



ADDITIONAL RUNWAY INFORMATION

				USABLE LENGTHS		TAKE-OFF	WIDTH
RWY				Threshold	Glide Slope		
07L	HIRL (60m) CL (15m) HIALS PAPI-L(2.98°) RVR				10,979' 3346m	①	197' 60m
25R	HIRL (60m) CL (15m) HIALS-II TDZ PAPI-L(2.98°) RVR				10,857' 3309m		
① TAKE-OFF RUN AVAILABLE							
<u>RWY 07L:</u>				<u>RWY 25R:</u>			
From rwy head		11,647' (3550m)		From rwy head		11,647' (3550m)	
twy 1/11 int		11,611' (3539m)		twy 5/15 int		11,447' (3489m)	
twy 2/12 int		8980' (2737m)		twy 4/14 int		8816' (2687m)	
07R	HIRL (60m) CL (15m) HIALS-II TDZ PAPI-L(2.98°) RVR				11,349' 3459m	②	197' 60m
25L					10,985' 3348m		

② TAKE-OFF RUN AVAILABLE
RWY 07R:

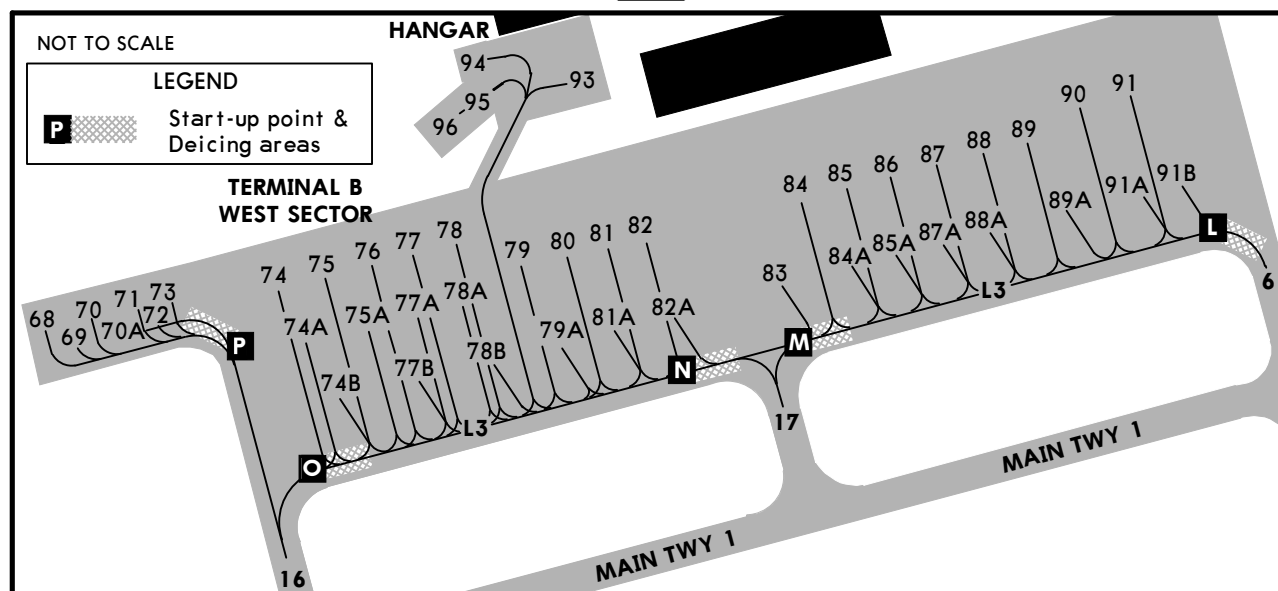
From rwy head 12,139' (3700m)
twy 11 int 11,775' (3589m)
twy 12/22 int 9144' (2787m)

RWY 25L:

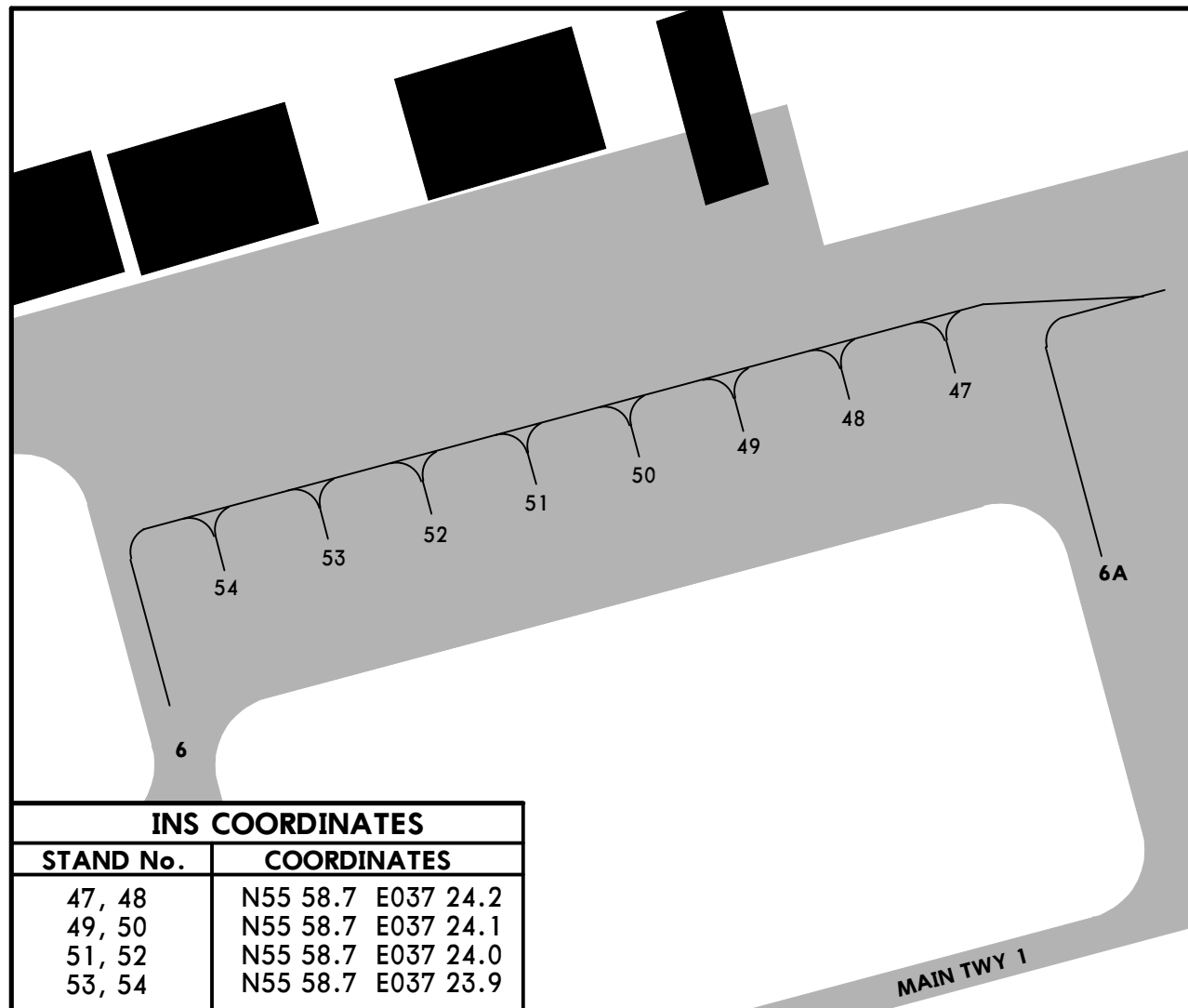
From rwy head 12,139' (3700m)
twy 15 int 11,775' (3589m)
twy 14/24 int 9144' (2787m)

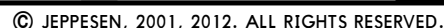
TAKE-OFF

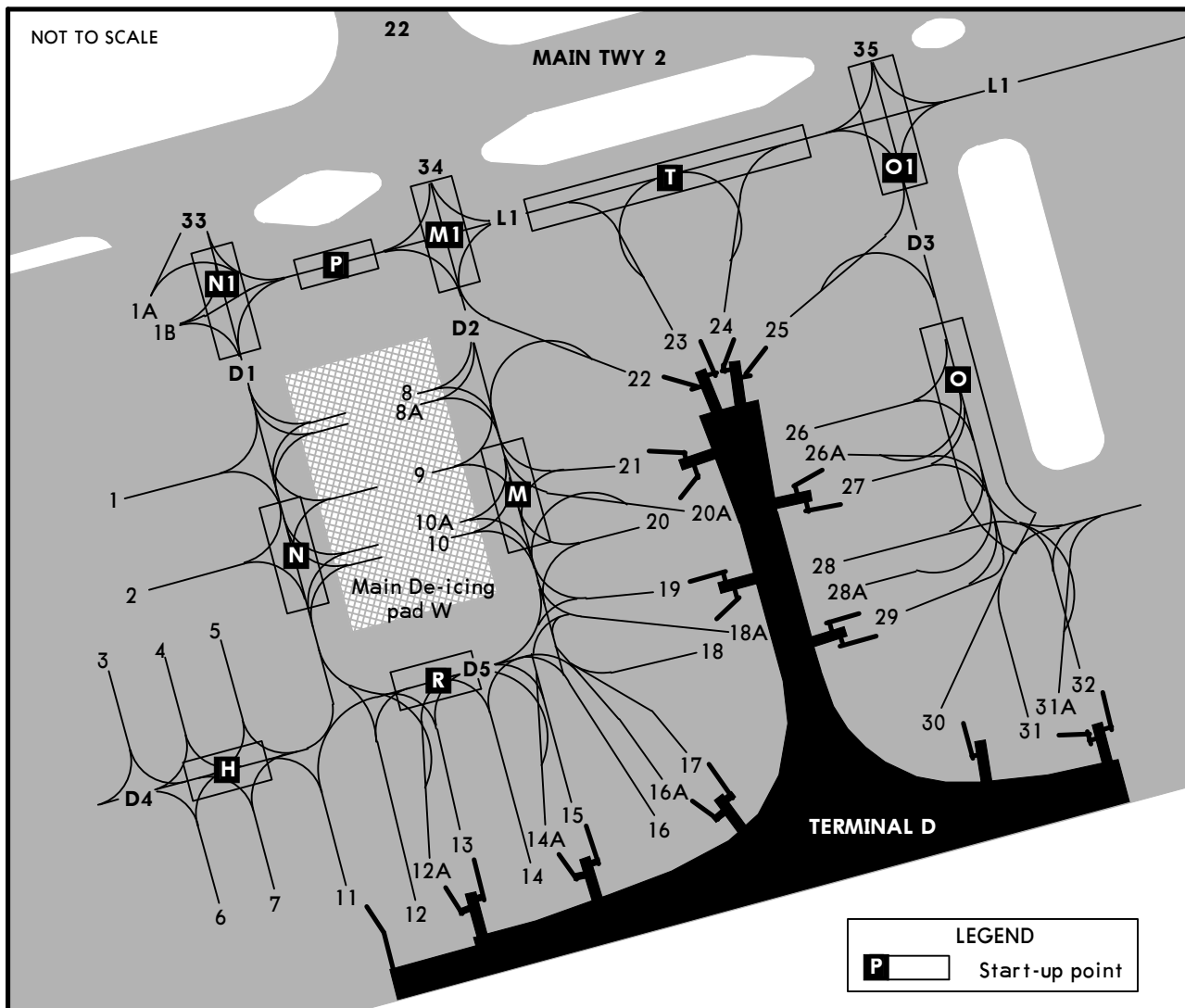
	AIR CARRIER (JAA) All Rwys			AIR CARRIER (FAR 121) All Rwys		
	LVP must be in force		RCLM (DAY only) or RL	CL & RCLM any RVR out, other two req.		Adequate Vis Ref
	RL & CL	RCLM (DAY only) or RL				
A			400m	2 Eng	TDZ RVR 200m Mid RVR 200m Roll out RVR 150m	RVR 500m VIS 400m
B	200m (150m)	250m				
C				3 & 4 Eng		
D	250m (200m)	300m				

**INS COORDINATES**

STAND No.	COORDINATES	STAND No.	COORDINATES
68 thru 70A	N55 58.4 E037 23.0	83 thru 84A	N55 58.5 E037 23.5
71 thru 74	N55 58.4 E037 23.1	85 thru 86	N55 58.5 E037 23.6
74A, 74B	N55 58.4 E037 23.2	87	N55 58.5 E037 23.7
75	N55 58.5 E037 23.2	87A	N55 58.5 E037 23.6
75A	N55 58.4 E037 23.2	88 thru 89	N55 58.5 E037 23.7
76, 77	N55 58.5 E037 23.2	89A, 90	N55 58.5 E037 23.8
77A, 77B	N55 58.4 E037 23.2	91	N55 58.5 E037 23.6
78, 78A	N55 58.5 E037 23.2	91A, 91B	N55 58.5 E037 23.8
78B, 79, 79A	N55 58.5 E037 23.3	93 thru 96	N55 58.5 E037 23.3
80 thru 82A	N55 58.5 E037 23.4		

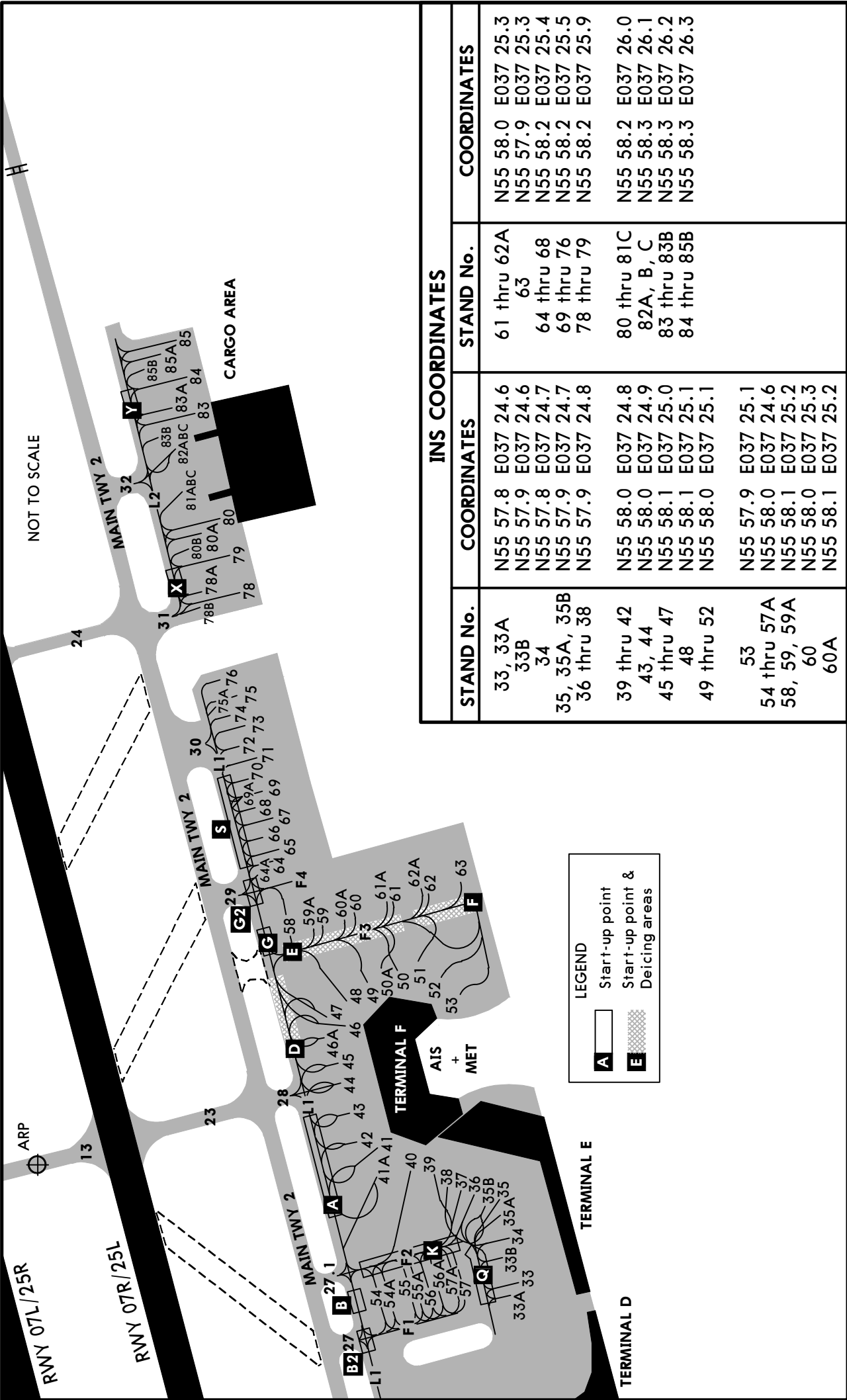


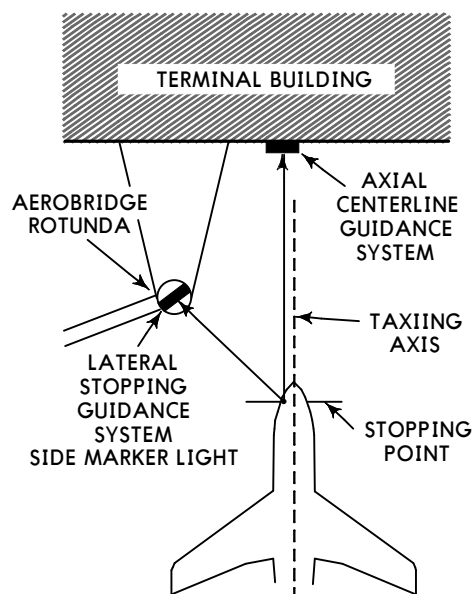




INS COORDINATES

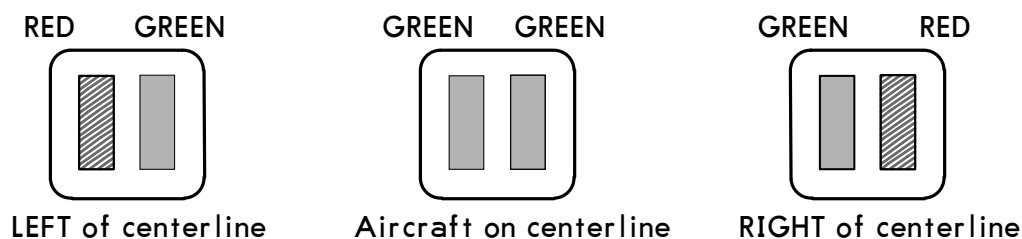
STAND No.	COORDINATES
1	N55 57.9 E037 23.9
1A	N55 58.0 E037 23.9
2	N55 57.9 E037 23.9
3	N55 57.8 E037 23.8
4 thru 7	N55 57.8 E037 23.9
8 thru 10A	N55 57.9 E037 24.1
11	N55 57.8 E037 24.0
12 thru 14A	N55 57.8 E037 24.1
15 thru 17	N55 57.8 E037 24.2
18	N55 57.8 E037 24.3
18A	N55 57.9 E037 24.3
19, 20	N55 57.9 E037 24.2
20A	N55 57.9 E037 24.3
21, 22	N55 57.9 E037 24.2
23 thru 25	N55 58.0 E037 24.3
26, 26A	N55 57.9 E037 24.3
27 thru 29	N55 57.9 E037 24.4
30	N55 57.8 E037 24.4
31 thru 32	N55 57.8 E037 24.5



STAND ENTRY GUIDANCE SYSTEM (AGNIS)**CAUTION**

The system is aligned with the LEFT hand pilot's seat only.

After entering the Axial light unit area taxiing should be carried out so as to see green light in both splits of the unit. When acft is to the LEFT or RIGHT of the axial line the pilot observes the red light in the LEFT or RIGHT split of the axial light unit respectively. To join the axial line the pilot should turn to the green light side. At 66'/20m before aerobridge the pilot should pay attention to the Lateral light unit. This time the pilot will observe the red light in the LEFT split and green in the RIGHT one. The pilot should stop the acft when the red light in the LEFT split becomes green abruptly. The stopping position is correct if both the Axial and Lateral light units show green light in their splits.

AXIAL CENTERLINE GUIDANCE

Acft type B-747 should use the axial light unit marked "747".

SIDE MARKER LIGHT

DOCKING GUIDANCE SYSTEM (SAFEDOCK)

1. PILOT INSTRUCTIONS

Attention! A pilot can bring the acft into stopping position only after the vertical running arrows appear on the display of the stopping control system. The pilot is prohibited to bring up an acft to the aerobridge until the running arrows change to the approach distance indicator.

Attention! A pilot is allowed to bring the acft into stopping position only in the case, when the acft type indicated on the display corresponds to the actual type of the approaching acft.

Pilot must also check the correctness of other information.

If the pilot is not sure that he exactly understands the meaning of the information shown on the display of the stopping/parking control system, he must immediately stop the acft and request additional information about the method of parking as well as the permission to continue the movement.

2. SEARCH OF THE APPROACHING AIRCRAFT

The running arrows on the display show that the system is activated and is in the mode of search for the approaching acft. The pilot has no right to bring up an acft to the aerobridge until the running arrows change to the approach distance indicator.



3. GUIDANCE OF THE APPROACHING AIRCRAFT

The running arrow is being replaced by the yellow indicator of the centerline.

The flashing red arrow shows the direction of turn.

The vertical yellow arrow shows the position of acft relative to the centerline.



4. APPROACH DISTANCE

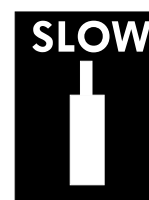
The information about the approach distance is given to the pilot by gradual switching off the segments of the indicator of the centerline: one segment corresponds to a distance of 2'/0.5m.

The red arrow shows the direction of taxiing.



5. SLOW DOWN

When the acft approaches the stopping position at a speed, which exceeds the allowed value, the system issues the message SLOW DOWN as a warning to the pilot.



6. AZIMUTH GUIDANCE

The acft is at 20'/6m to the stopping position. The yellow arrow indicates that the acft is to the RIGHT of the centerline, while the flashing red arrow is indicating the direction of turn. No yellow arrows indicating the direction means that the acft is moving along the centerline.



7. AIRCRAFT IS BROUGHT TO THE STOPPING POSITION

When the correct stopping position is reached by the acft, the display shows STOP and the red indicators.



8. DOCKING ON

When the acft is correctly parked, the display shows OK.



DOCKING GUIDANCE SYSTEM (SAFEDOCK)

9. OVERSHOOTING

When the acft has overshoot the stopping position, the display will show TOO FAR.



10. STOP SHORT

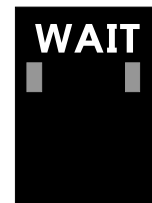
When the acft is detected as already stopped, but not reached the assigned stopping position, the display will show STOP OK in a while.



11. WAITING MODE

When the system loses the identified approaching acft, the display shows WAIT.

The pilot must not bring up the acft to the aerobridge until the message WAIT changes to the split showing the approach speed.



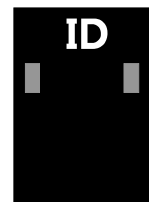
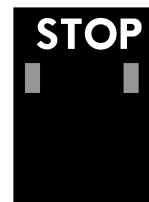
12. SLOW DOWN

Such message can be shown on the display by two reasons: under unfavorable weather conditions or loss of acft during parking. The running arrows will be switched off on the display and the text SLOW and the acft type will be shown on the display alternately. As soon as the system fixes the approaching acft, the indication of the approaching speed will appear. The pilot must not bring up the acft to the aerobridge until the split showing the approach speed appears.



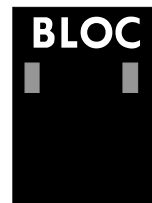
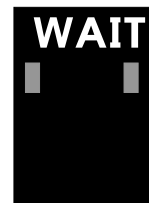
13. IDENTIFICATION FAILURE

If for any reason the identification is not achieved at 39'/12m from the stopping position, the display will show WAIT and a repeated check will be carried out. If it fails, the display will show STOP and ID FAIL.



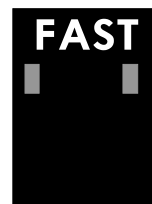
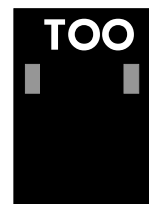
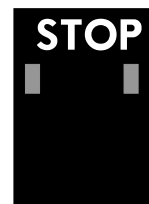
14. THE GATES AND THE VIEW ARE BLOCKED

If an object is found which is blocking the coverage of Docking Guidance System, the docking process will be delayed and the display will show WAIT and GATE BLOC, or WAIT VIEW BLOC.



15. TOO FAST

If the acft approaches at a speed exceeding the docking speed, the display will show STOP (with two red splits) and TOO FAST. The system of docking must be reset or the docking procedure must be carried out manually.



16. CHOCK ON

The message CHOCK ON shall be displayed by pressing the button "Chocks on" on the operators panel after inserting the chocks under the nose landing gear by ground personnel.



STRAIGHT-IN RWY		A	B	C	D
07L	ILS ❶	819'(200')	819'(200')	819'(200')	819'(200')
	FULL	R550m	R550m	R550m	R550m
	Limited	R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	PAR ❶	840'(221')	850'(231')	860'(241')	870'(251')
		R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1300m	R1300m
	RNAV ❶❷	970'(351')	970'(351')	970'(351')	970'(351')
		R900m	R900m	R900m	R900m
	ALS out	R1500m	R1500m	R1600m	R1600m
	NDB ❶❷❸	970'(351')	970'(351')	970'(351')	970'(351')
07R		R1000m	R1000m	R1200m	R1200m
	ALS out	R1600m	R1600m	R1600m	R1600m
	NDB ❶❹	1400'(781')	1400'(781')	1400'(781')	1400'(781')
		C3100m	C3100m	C3300m	C3300m
	ALS out	C3800m	C3800m	C4000m	C4000m
	CAT 3A ILS ❶	RA50' R200m	RA50' R200m	RA50' R200m	RA50' R200m
	CAT 2 ILS ❶	719'(100')	719'(100')	719'(100')	719'(100')
		RA106' R350m	RA106' R350m	RA106' R350m	RA106' R350m
	ILS ❶	819'(200')	819'(200')	819'(200')	819'(200')
	FULL	R550m	R550m	R550m	R550m
	Limited	R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1200m	R1200m
25L	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	PAR ❶	843'(224')	853'(234')	863'(244')	873'(254')
		R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1300m	R1300m
	RNAV ❶❷	990'(371')	990'(371')	990'(371')	990'(371')
		R1000m	R1000m	R1000m	R1000m
	ALS out	R1500m	R1500m	R1700m	R1700m
	NDB ❶❷❸	970'(351')	970'(351')	970'(351')	970'(351')
		R1000m	R1000m	R1200m	R1200m
	ALS out	R1600m	R1600m	R1600m	R1600m
	NDB ❶❹	1400'(781')	1400'(781')	1400'(781')	1400'(781')
		C3100m	C3100m	C3300m	C3300m
	ALS out	C3800m	C3800m	C4000m	C4000m
	CAT 2 ILS ❶	721'(100')	721'(100')	721'(100')	721'(100')
		RA97' R350m	RA97' R350m	RA97' R350m	RA97' R350m
	ILS ❶	821'(200')	821'(200')	821'(200')	821'(200')
	FULL	R550m	R550m	R550m	R550m
	Limited	R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	PAR ❶	821'(200')	827'(206')	837'(216')	846'(225')
		R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1200m	R1200m

❶ Missed apch climb gradient min 4.6%.

❷ Continuous Descent Final Approach.

❸ with radar control.

❹ w/o radar control.

STRAIGHT-IN RWY		A	B	C	D
25L (contd)	RNAV ①②	990' (369') R1000m R1500m	990' (369') R1000m R1500m	990' (369') R1000m R1700m	990' (369') R1000m R1700m
	ALS out				
	2 NDB ①②③	980' (359') R1000m R1600m	980' (359') R1000m R1600m	980' (359') R1200m R1600m	980' (359') R1200m R1600m
	ALS out				
	2 NDB ①④	1050' (429') R1500m C2200m	1050' (429') R1500m C2200m	1050' (429') R1700m C2400m	1050' (429') R1700m C2400m
	ALS out				
	1 NDB ①②③	990' (369') R1000m R1700m	990' (369') R1000m R1700m	990' (369') R1200m R1700m	990' (369') R1200m R1700m
	ALS out				
	1 NDB ①④	1400' (779') C3100m C3800m	1400' (779') C3100m C3800m	1400' (779') C3300m C4000m	1400' (779') C3300m C4000m
	ALS out				
25R	CAT 3A ILS ①	RA50' R200m	RA50' R200m	RA50' R200m	RA50' R200m
	CAT 2 ILS ①	722' (100') RA103' R350m	722' (100') RA103' R350m	722' (100') RA103' R350m	722' (100') RA103' R350m
	ILS ① FULL Limited ALS out	822' (200') R550m R750m R1200m	822' (200') R550m R750m R1200m	822' (200') R550m R750m R1200m	822' (200') R550m R750m R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	PAR ① ALS out	843' (221') R750m R1200m	853' (231') R750m R1200m	863' (241') R750m R1300m	873' (251') R750m R1300m
	RNAV ①② ALS out	990' (368') R1000m R1500m	990' (368') R1000m R1500m	990' (368') R1000m R1700m	990' (368') R1000m R1700m
	2 NDB ①② ALS out	980' (358') R1000m R1600m	980' (358') R1000m R1600m	980' (358') R1200m R1600m	980' (358') R1200m R1600m
	1 NDB ①②③ ALS out	990' (368') R1000m R1700m	990' (368') R1000m R1700m	990' (368') R1200m R1700m	990' (368') R1200m R1700m
	1 NDB ①④ ALS out	1400' (778') C3100m C3800m	1400' (778') C3100m C3800m	1400' (778') C3300m C4000m	1400' (778') C3300m C4000m

- ① Missed apch climb gradient min 4.6%.
 ② Continuous Descent Final Approach.
 ③ with radar control.
 ④ w/o radar control.

TAKE-OFF RWY 07L/R, 25L/R

	LVP must be in Force				RCLM (DAY only) or RL	NIL (DAY only)
	Approved Operators HIRL, CL & mult. RVR req	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		

CHANGES: Missed apch climb grad. NDB. PAR.

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STRAIGHT-IN RWY		A	B	C	D
07L	ILS ❶	819' (200')	819' (200')	819' (200')	819' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	PAR ❶	840' (221')	850' (231')	860' (241')	870' (251')
		R600m	R600m	R600m	R650m
	ALS out	R1000m	R1000m	R1000m	R1200m
	RNAV ❶	970' (351')	970' (351')	970' (351')	970' (351')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	NDB ❶❷	970' (351')	970' (351')	970' (351')	970' (351')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	NDB ❶❸	1400' (781')	1400' (781')	1400' (781')	1400' (781')
		R1200m	R1400m	R1400m	R1800m
	ALS out	R1500m	R1500m	R2000m	R2000m
07R	CAT 3A ILS ❶	RA50' R200m	RA50' R200m	RA50' R200m	RA50' R200m
	CAT 2 ILS ❶	719' (100')	719' (100')	719' (100')	719' (100')
		RA106' R350m	RA106' R350m	RA106' R350m	RA106' R350m
	ILS ❶	819' (200')	819' (200')	819' (200')	819' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	PAR ❶	843' (224')	853' (234')	863' (244')	873' (254')
		R600m	R600m	R600m	R650m
	ALS out	R1000m	R1000m	R1000m	R1200m
	RNAV ❶	990' (371')	990' (371')	990' (371')	990' (371')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	NDB ❶❷	970' (351')	970' (351')	970' (351')	970' (351')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	NDB ❶❸	1400' (781')	1400' (781')	1400' (781')	1400' (781')
		R1200m	R1400m	R1400m	R1800m
	ALS out	R1500m	R1500m	R2000m	R2000m
25L	CAT 2 ILS ❶	721' (100')	721' (100')	721' (100')	721' (100')
		RA97' R350m	RA97' R350m	RA97' R350m	RA97' R350m
	ILS ❶	821' (200')	821' (200')	821' (200')	821' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	PAR ❶	821' (200')	827' (206')	837' (216')	846' (225')
		R550m	R600m	R600m	R600m
	ALS out	R1000m	R1000m	R1000m	R1000m

❶ Missed apch climb gradient mim 4.6%.

❷ with radar control.

❸ w/o radar control.

STRAIGHT-IN RWY		A	B	C	D
25L (contd)	RNAV ①	990' (369')	990' (369')	990' (369')	990' (369')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	2 NDB ①②	980' (359')	980' (359')	980' (359')	980' (359')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	2 NDB ①③	1050' (429')	1050' (429')	1050' (429')	1050' (429')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	1 NDB ①②	990' (369')	990' (369')	990' (369')	990' (369')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	1 NDB ①③	1400' (779')	1400' (779')	1400' (779')	1400' (779')
		R1200m	R1400m	R1400m	R1800m
	ALS out	R1500m	R1500m	R2000m	R2000m
25R	CAT 3A ILS ①	RA50'R200m	RA50'R200m	RA50'R200m	RA50'R200m
	CAT 2 ILS ①	722' (100')	722' (100')	722' (100')	722' (100')
		RA103'R350m	RA103'R350m	RA103'R350m	RA103'R350m
	ILS ①	822' (200')	822' (200')	822' (200')	822' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	PAR ①	843' (221')	853' (231')	863' (241')	873' (251')
		R600m	R600m	R600m	R650m
	ALS out	R1000m	R1000m	R1000m	R1200m
	RNAV ①	990' (368')	990' (368')	990' (368')	990' (368')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	2 NDB ①	980' (358')	980' (358')	980' (358')	980' (358')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	1 NDB ①②	990' (368')	990' (368')	990' (368')	990' (368')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	1 NDB ①③	1400' (778')	1400' (778')	1400' (778')	1400' (778')
		R1200m	R1400m	R1400m	R1800m
	ALS out	R1500m	R1500m	R2000m	R2000m

① Missed apch climb gradient min 4.6%.

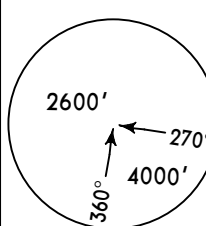
② with radar control.

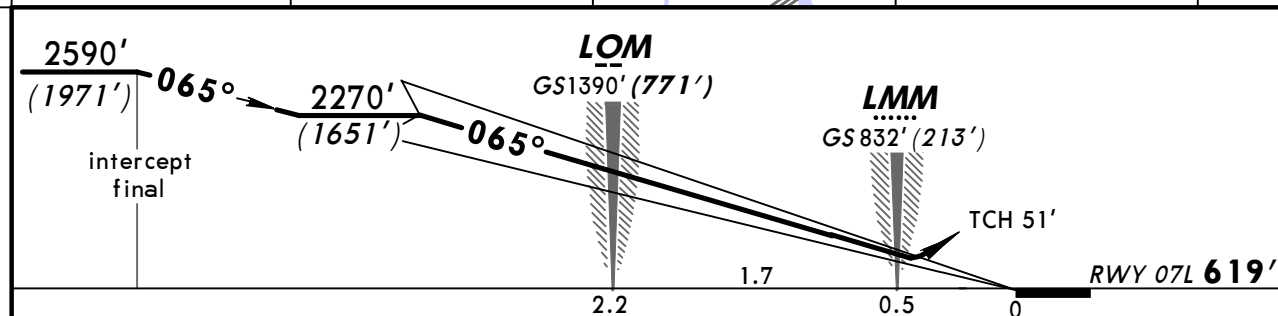
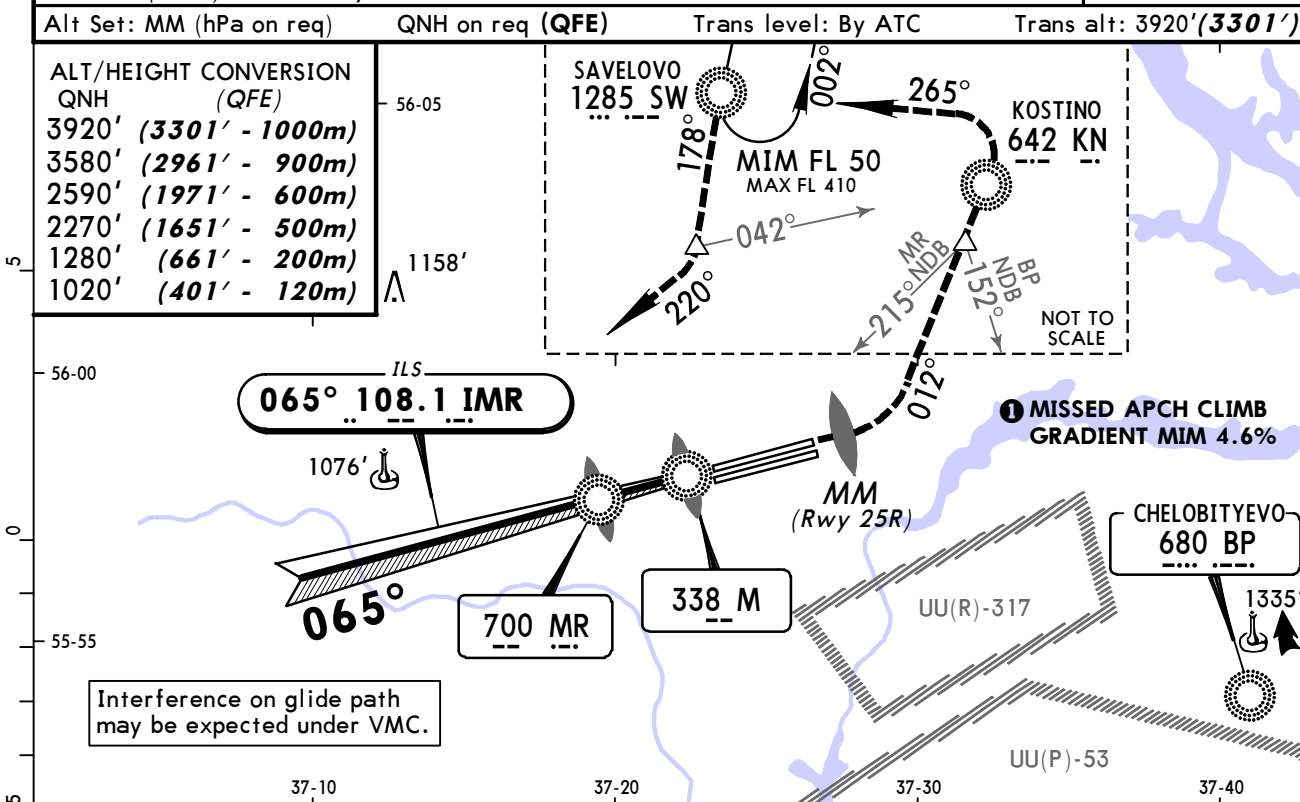
③ w/o radar control.

TAKE-OFF RWY 07L/R, 25L/R

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

BRIEFING STRIP™

ATIS 125.12 (Russian 126.37)		SHEREMETYEVO Apch1 119.3		SHEREMETYEVO Apch2 123.7		
SHEREMETYEVO Radar 118.1		SHEREMETYEVO Precision (TWR) 131.5		Ground 119.0		
LOC IMR 108.1	Final Apch Crs 065°	GS LOM 1390' (771')	ILS DA(H) 819' (200')	Apt Elev 630' RWY 619'		
RADAR			PAR DA(H) Refer to Minimums			
MISSED APCH: Climb STRAIGHT AHEAD to 1020' (401') or above to MM Rwy 25R, turn LEFT climbing onto 012° to cross 215° MR NDB/152° BP NDB at 2590' (1971'). Proceed to KN NDB to pass it at 3580' (2961') or as directed. At 1280' (661') immediately contact Radar.						MSA MR NDB

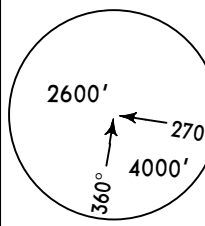


Gnd speed-Kts	70	90	100	120	140	160	HI ALS PAPI	1020' (401') or above to MM RWY 25R
ILS or PAR GS	2.98°	374	481	535	641	748		

STRAIGHT-IN LANDING RWY 07L 1					
ILS		LOC (GS out)		PAR	
DA(H) 819' (200')				A: 840' (221') C: 860' (241') B: 850' (231') D: 870' (251')	
FULL	ALS out			ALS out	
A					
B					
C	RVR 720m VIS 800m	1200m	NOT AUTH	RVR 720m VIS 800m	1200m
D					

Missed apch climb gradient mim 4.6% from 1020' (401') to 2590' (1971').

BRIEFING STRIP™

ATIS 125.12 (Russian 126.37)		SHEREMETYEVO Apch1 119.3		SHEREMETYEVO Apch2 123.7	
SHEREMETYEVO Radar 118.1		SHEREMETYEVO Precision (TWR) 120.7		Ground 121.8	
LOC INL 109.1	Final Apch Crs 065°	GS LOM 1324' (705')	ILS DA(H) 819' (200')	Apt Elev 630' RWY 619'	
RADAR			PAR DA(H) Refer to Minimums		
MISSED APCH: Climb STRAIGHT AHEAD to 1020' (401') or above to MM Rwy 25L, turn RIGHT climbing onto 078° to cross 169° BP NDB at 2590' (1971'), turn LEFT onto 318°, proceed to 212° NL NDB, turn RIGHT onto 013° to KN NDB to pass it at 2590' (1971') or as directed. At 1280' (661') immediately contact Radar.					

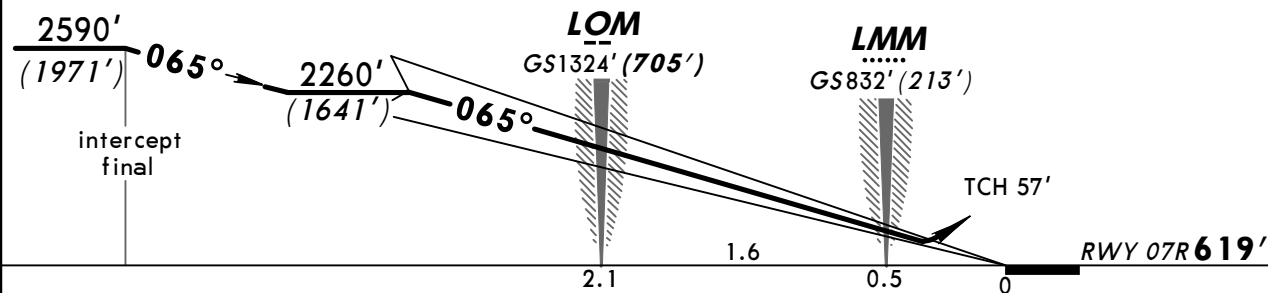
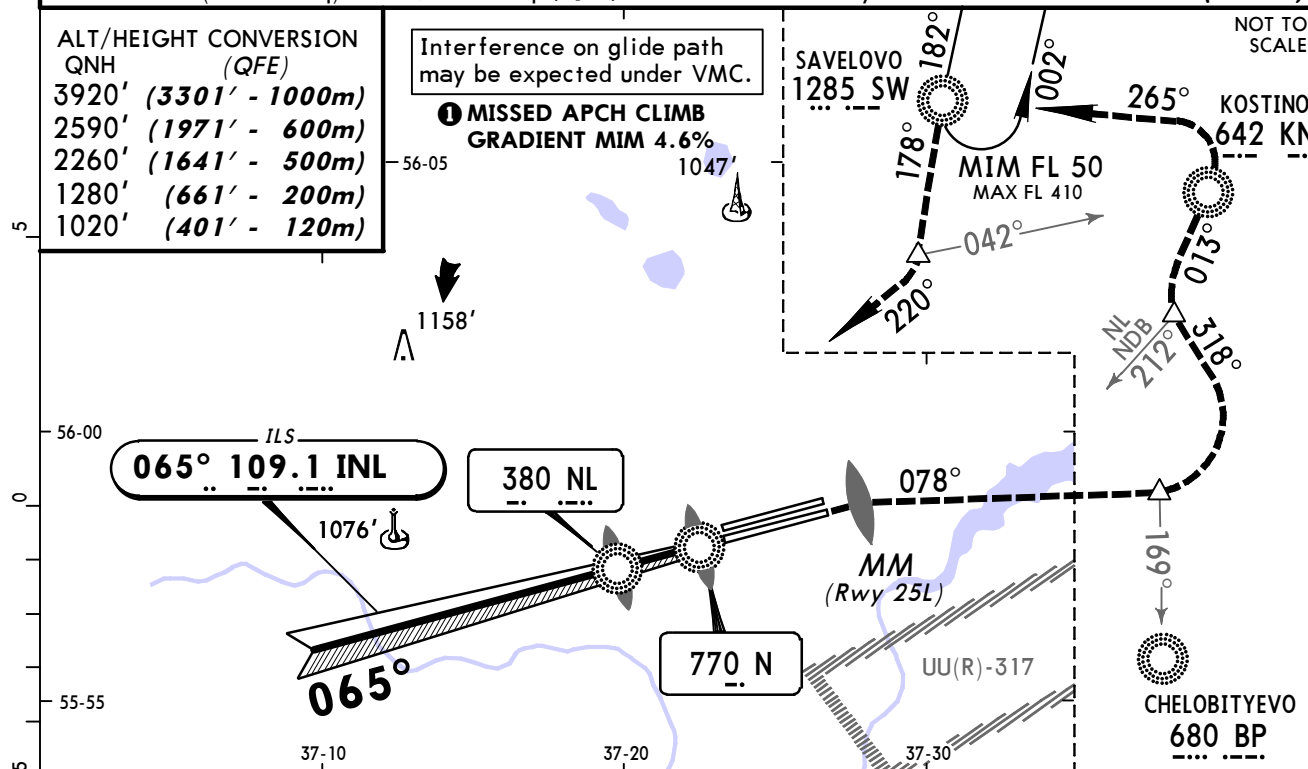
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3920' (3301')

ALT/HEIGHT CONVERSION

QNH	(QFE)
3920' (3301' - 1000m)	
2590' (1971' - 600m)	
2260' (1641' - 500m)	
1280' (661' - 200m)	
1020' (401' - 120m)	

Interference on glide path may be expected under VMC.

MISSED APCH CLIMB
GRADIENT MIM 4.6%

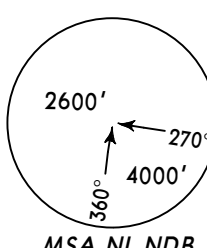


Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI 1020' (401') or above MM to RWY 25L
ILS or PAR GS 2.98°	374	481	535	641	748	855	

STRAIGHT-IN LANDING RWY 07R						
ILS			LOC		PAR	
DA(H) 819' (200')			(GS out)		A: 843' (224') C: 863' (244') B: 853' (234') D: 873' (254')	
FULL	TDZ or CL out	ALS out			TDZ or CL out	ALS out
A						
B						
C	RVR 550m VIS 800m	RVR 720m VIS 800m	1200m	NOT AUTH	RVR 550m VIS 800m	RVR 720m VIS 800m
D						

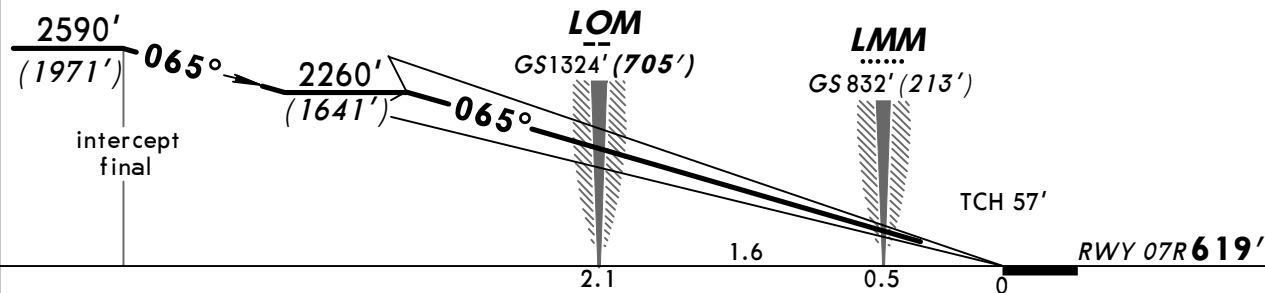
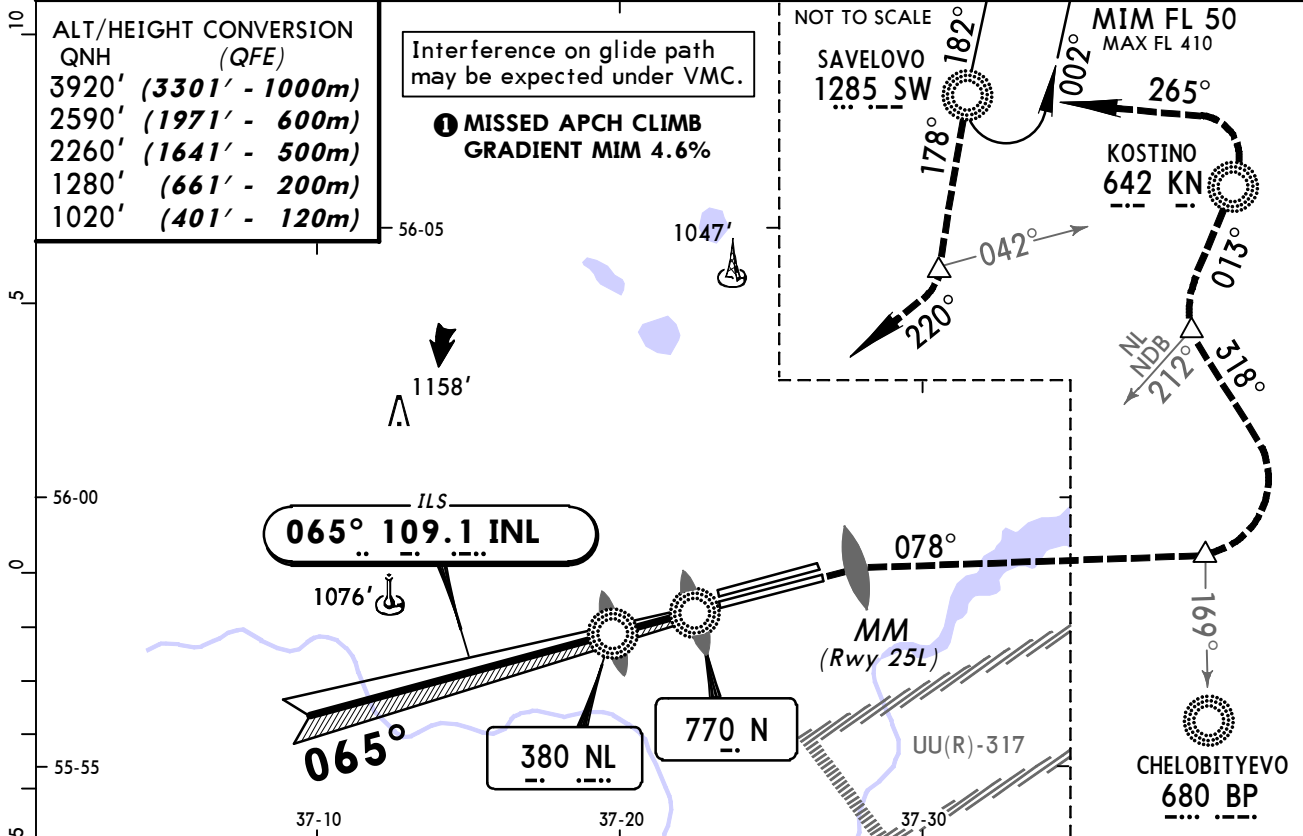
MISSED APCH CLIMB GRADIENT MIM 4.6% FROM 1020' (401') TO 2590' (1971').

BRIEFING STRIP

ATIS 125.12 (Russian 126.37)		SHEREMETYEVO Apch1 119.3		SHEREMETYEVO Apch2 123.7	
SHEREMETYEVO Radar 118.1		SHEREMETYEVO Precision (TWR) 120.7		Ground 121.8	
LOC INL 109.1	Final Apch Crs 065°	GS LOM 1324' (705')	CAT II ILS RA 106' DA(H) 719' (100')	Apt Elev 630' RWY 619'	

MISSED APCH: Climb STRAIGHT AHEAD to 1020' (401') or above to MM Rwy 25L, turn RIGHT climbing onto 078° to cross 169° BP NDB at 2590' (1971'), turn LEFT onto 318°, proceed to 212° NL NDB, turn RIGHT onto 013° to KN NDB to pass it at 2590' (1971') or as directed.
At 1280' (661') immediately contact Radar.

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3920' (**3301'**)
Special Aircrew and Aircraft Certification Required.



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI 1020' (401') or above to MM RWY 25L
GS 2.98°	374	481	535	641	748	855	

STRAIGHT-IN LANDING RWY 07R
CAT II ILS
ABCD
RA 106'
DA(H) 719' (100')

RVR **350m**

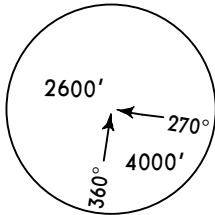
Missed apch climb gradient mim 4.6% from 1020' (401') to 2590' (1971').

UUEE/SVO SHEREMETYEVO

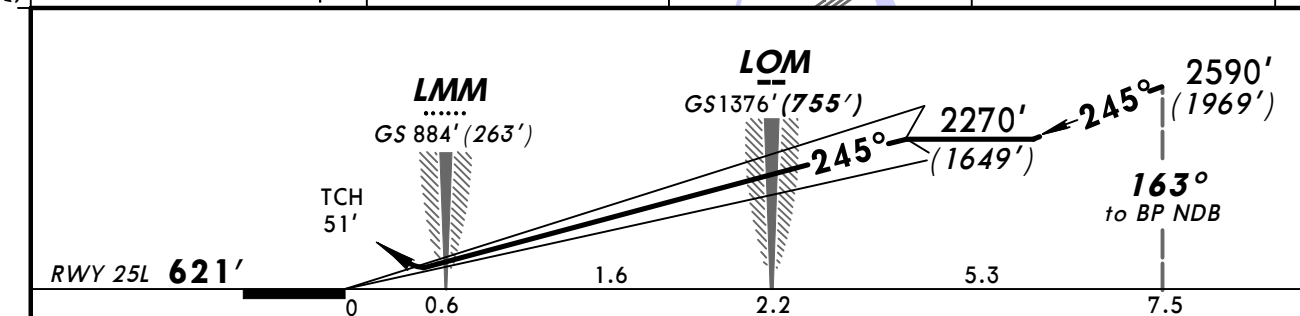
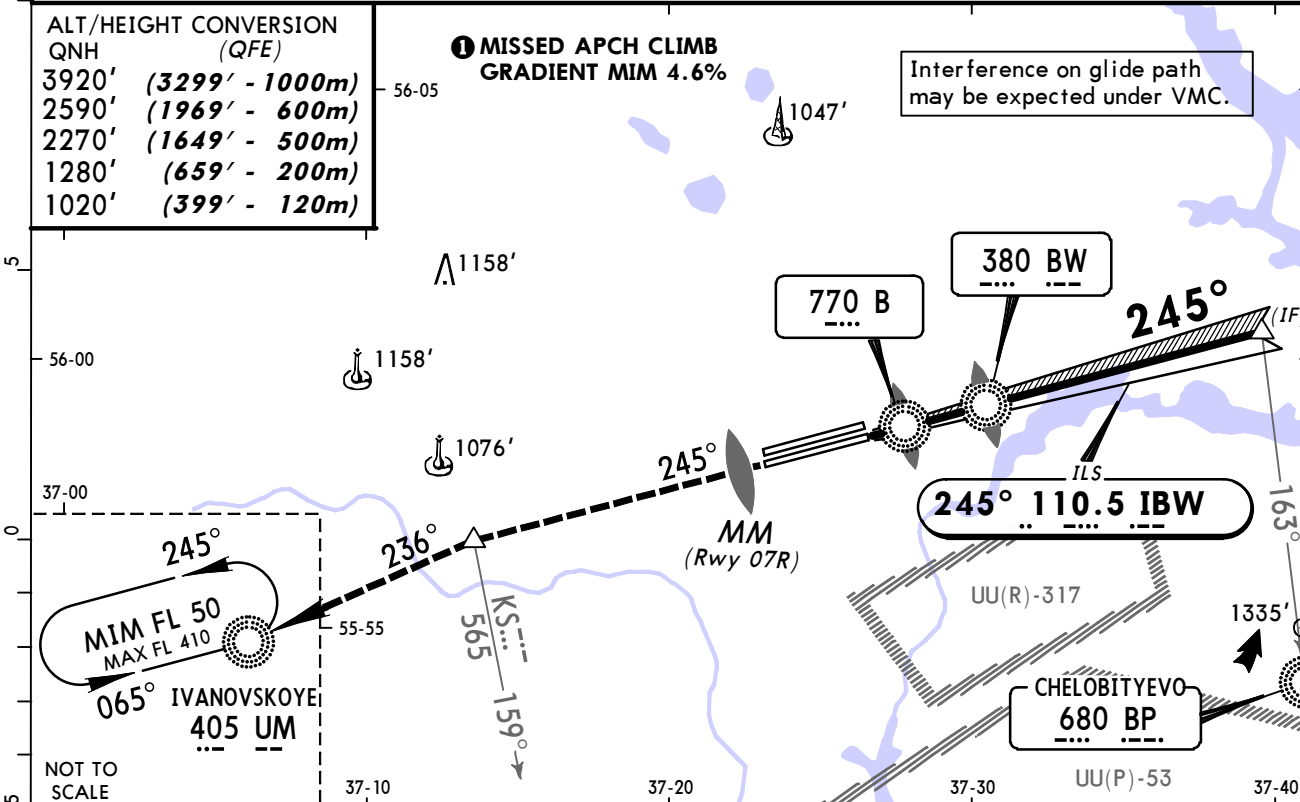
7 DEC 12
Eff 13 Dec

21-3

MOSCOW, RUSSIA
ILS or PAR Rwy 25L

BRIEFING STRIP	ATIS 125.12 (Russian 126.37)	SHEREMETYEVO Apx1 119.3		SHEREMETYEVO Apx2 123.7	
	SHEREMETYEVO Radar 118.1	SHEREMETYEVO Precision (TWR) 120.7		Ground 121.8	
	LOC IBW 110.5	Final Apx Crs 245°	GS LOM 1376' (755')	ILS DA(H) 821' (200')	Apt Elev 630' RWY 621'
	RADAR			PAR DA(H) Refer to Minimums	
MISSED APCH: Climb STRAIGHT AHEAD to 1020' (399') or above to MM Rwy 07R, then proceed to 159° to KS NDB climbing to 2590' (1969'), then climb on 236° to UM NDB as directed. At 1280' (659') immediately contact Radar.					 MSA BW NDB

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3920' (3299')



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	1020' (399') or above	MM Rwy 07R
ILS or PAR GS	2.98°	374	481	535	641	748			

ILS		STRAIGHT-IN LANDING RWY 25L		PAR	
DA(H) 821' (200')		LOC (GS out)		A: 821' (200') C: 837' (216') B: 827' (206') D: 846' (225')	
FULL	ALS out			ALS out	
A					
B					
C	RVR 720m VIS 800m	1200m	NOT AUTH	RVR 720m VIS 800m	1200m
D					

Missed apch climb gradient mim 4.6% from 1020' (399') to 2590' (1969').

CHANGES: Missed apch climb grad. Minimums.

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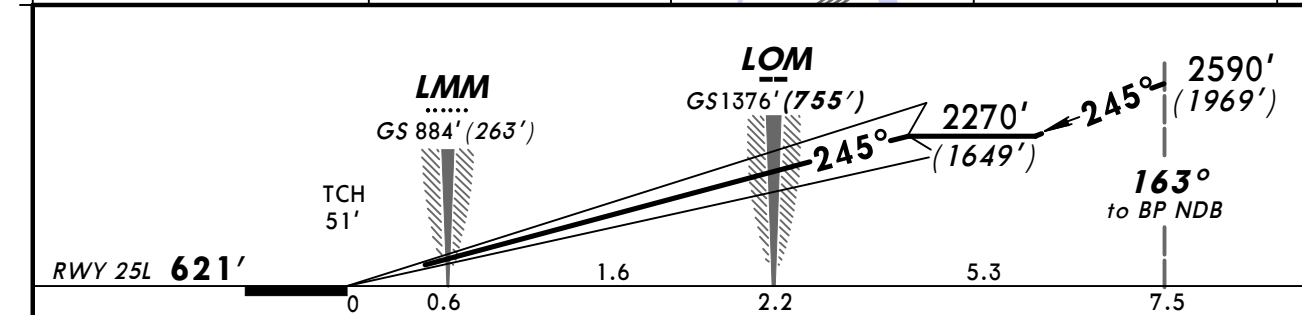
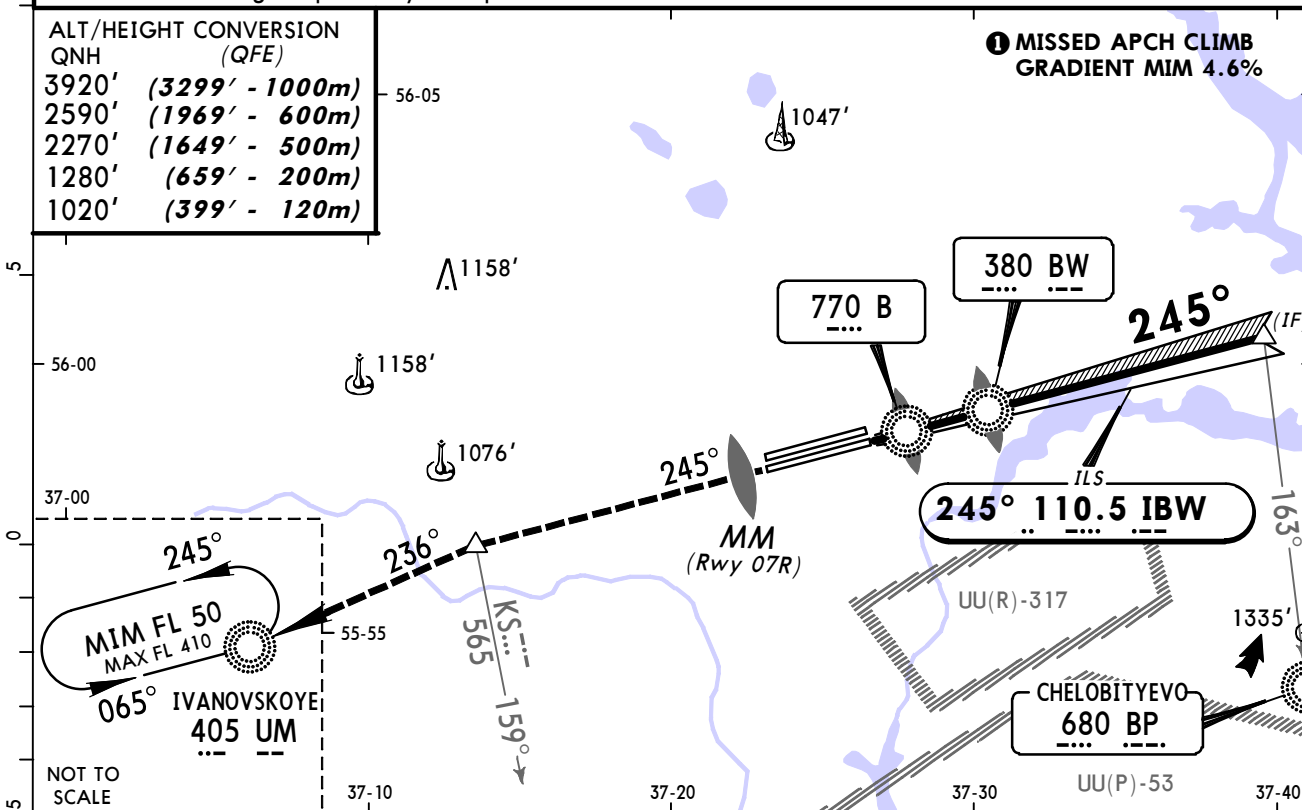
UUEE/SVO
SHEREMETYEVO

7 DEC 12
Eff 13 Dec

21-3A

MOSCOW, RUSSIA
CAT II ILS Rwy 25L

BRIEFING STRIP	ATIS		SHEREMETYEVO Apc1		SHEREMETYEVO Apc2	
	125.12 (Russian 126.37)		119.3		123.7	
	SHEREMETYEVO Radar		SHEREMETYEVO Precision (TWR)		Ground	
	118.1		120.7		121.8	
	LOC IBW	Final Apc Crs	GS LOM	CAT II ILS RA 97' DA(H) 721'(100')	Apt Elev 630'	
	110.5	245°	1376'(755')		RWY 621'	
MISSED APCH: Climb STRAIGHT AHEAD to 1020' (399') or above to MM Rwy 07R, then proceed to 159° to KS NDB climbing to 2590' (1969'), then climb on 236° to UM NDB as directed. At 1280' (659') immediately contact Radar.						MSA BW NDB
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3920' (3299') 1. Special Aircrew and Aircraft Certification Required. 2. Interference on glide path may be expected under VMC.						



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	1020' (399') or above ↑	MM Rwy 07R
GS	2.98°	374	481	535	641	748			

STRAIGHT-IN LANDING RWY 25L I
CAT II ILS
ABCD
RA 97'
DA(H) 721'(100')

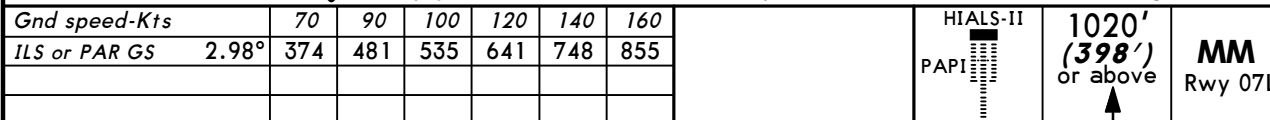
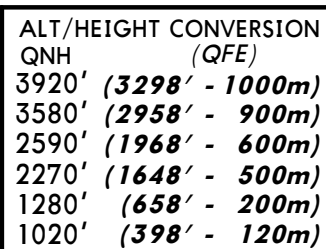
RVR 350m

Missed apch climb gradient mim 4.6% from 1020'(399') to 2590'(1969').

A diagram showing a circular sector with a radius of 2600' and a central angle of 270°. A point is located 4000' from the center at an angle of 360° from the positive x-axis.

MSA
AD NDB

10



PANS OPS

CHANGES: Missed apch climb grad. Minimums.

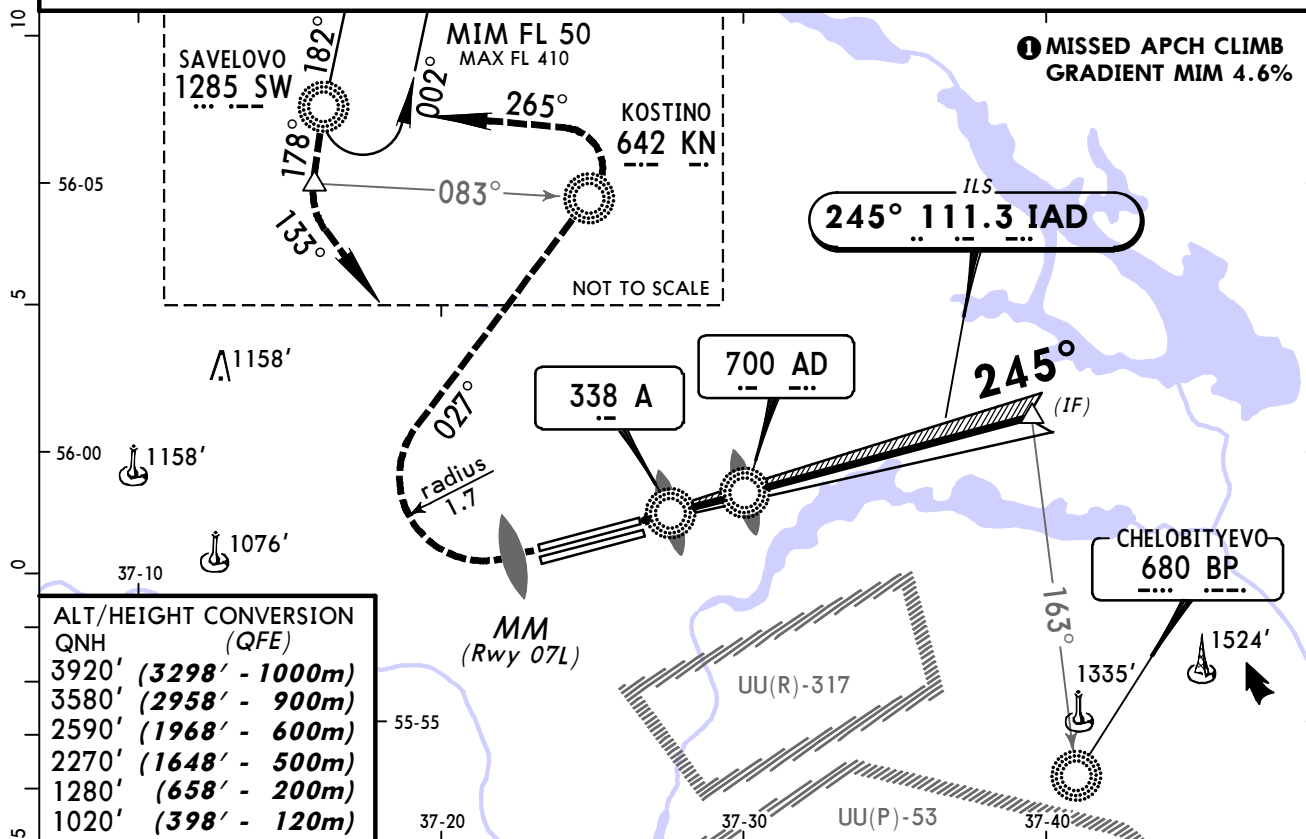
UUEE/SVO
SHEREMETYEVO

7 DEC 12
Eff 13 Dec

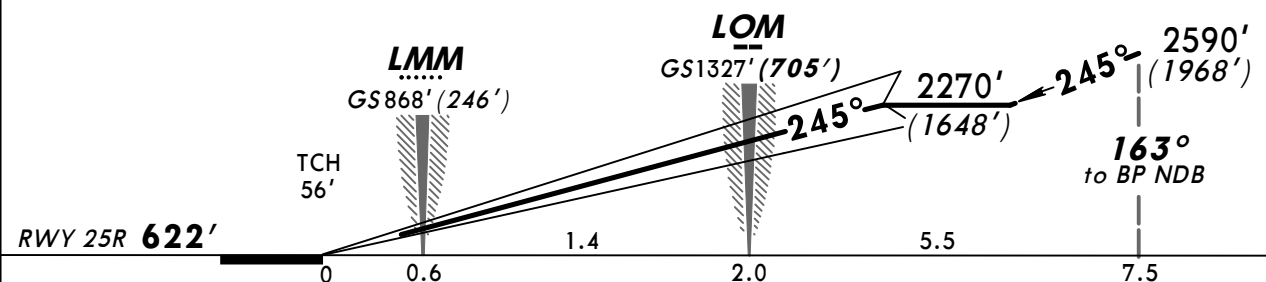
21-4A

MOSCOW, RUSSIA
CAT II ILS Rwy 25R

ATIS 125.12 (Russian 126.37)		SHEREMETYEVO Apch1 119.3		SHEREMETYEVO Apch2 123.7	
SHEREMETYEVO Radar 118.1		SHEREMETYEVO Precision (TWR) 131.5		Ground 119.0	
LOC IAD 111.3	Final Apch Crs 245°	GS LOM 1327' (705')	CAT II ILS RA 103' DA(H) 722' (100')	Apt Elev 630' RWY 622'	
MISSED APCH: Climb STRAIGHT AHEAD to 1020' (398') or above to MM Rwy 07L, then turn RIGHT onto 027° climbing to 3580' (2958') to KN NDB, or as directed. At 1280' (658') immediately contact Radar.					MSA AD NDB
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3920' (3298') 1. Special Aircrew and Aircraft Certification Required. 2. Interference on glide path may be expected under VMC.					



ALT/HEIGHT CONVERSION	
QNH	(QFE)
3920'	(3298' - 1000m)
3580'	(2958' - 900m)
2590'	(1968' - 600m)
2270'	(1648' - 500m)
1280'	(658' - 200m)
1020'	(398' - 120m)



Gnd speed-Kts	70	90	100	120	140	160
GS 2.98°	374	481	535	641	748	855

HIALS-II	1020' (398') or above	MM Rwy 07L
PAPI		

STRAIGHT-IN LANDING RWY 25R
CAT II ILS
ABCD
RA 103'
DA(H) 722' (100')

RVR 350m

Missed apch climb gradient mim 4.6% from 1020' (401') to 2590' (1971').

CHANGES: Missed apch climb grad.

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BRIEFING STRIP TM

2600'

270°

4000'

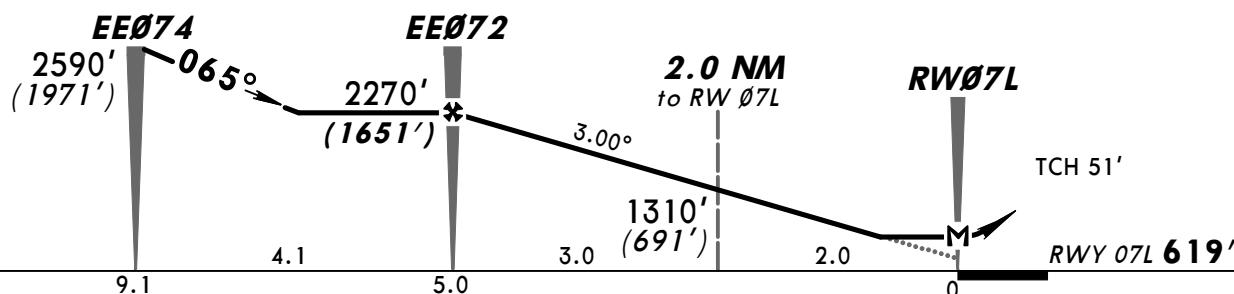
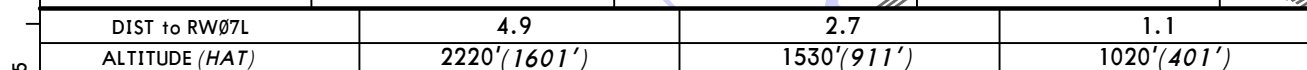
360°

MSA MR NDB

Trans alt: 3920' (**3301'**)

- 56-05

1158'



HIALS
PAPI

1020'
(401')
or above to
▲

MM
RWY
25R

STRAIGHT-IN LANDING RWY 07L 1

MDA(H) 970' (351')

ALS out

PANS OPS

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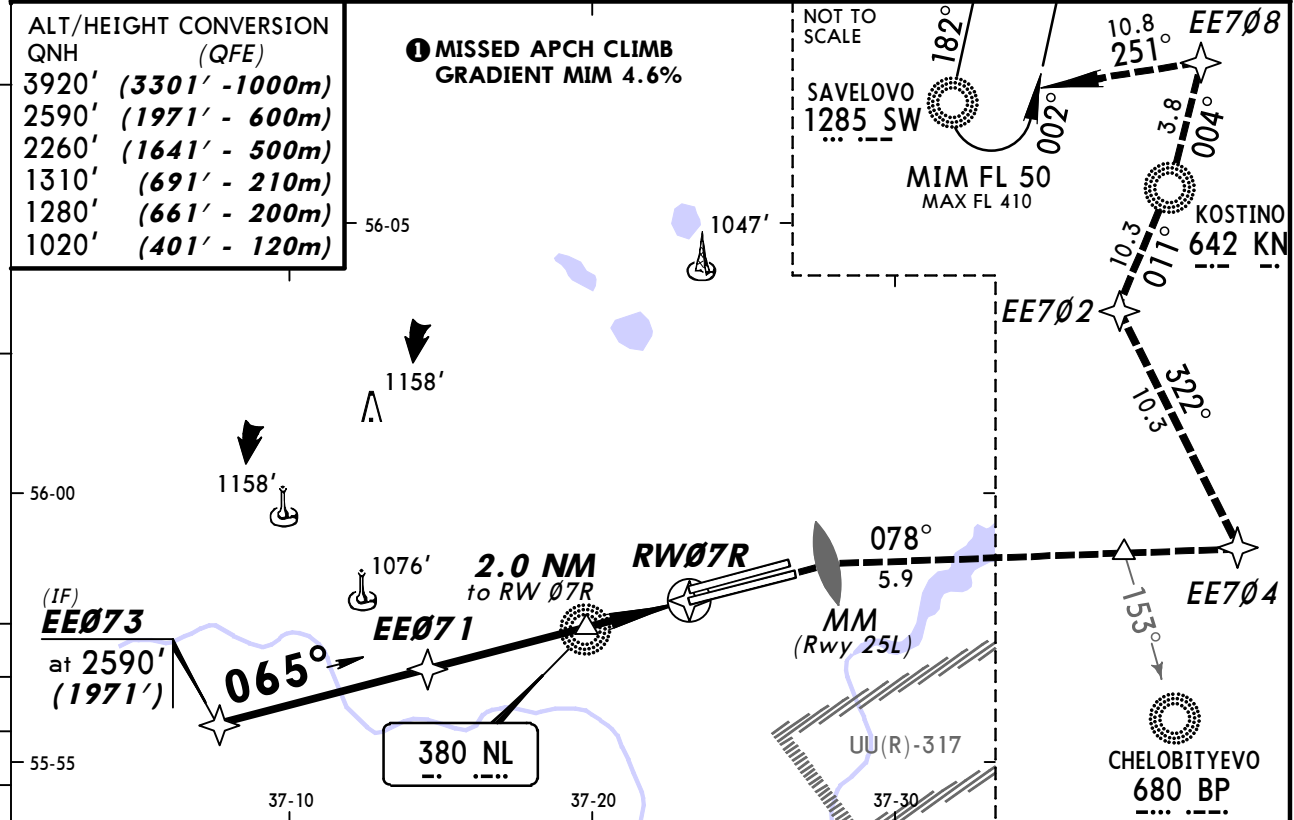
ATIS 125.12 (Russian 126.37)		SHEREMETYEVO Apch1 119.3		SHEREMETYEVO Apch2 123.7	
SHEREMETYEVO Radar 118.1		SHEREMETYEVO Precision (TWR) 120.7		Ground 121.8	
RNAV	Final Apch Crs 065°	Minimum Alt EE071 2260' (1641')	MDA(H) 990' (371')	Apt Elev 630' RWY 619'	
MISSED APCH: Climb STRAIGHT AHEAD to 1020' (401') or above to MM Rwy 25L, turn RIGHT climbing to EE074 to 2590' (1971'), turn LEFT to EE072, proceed to KN NDB then via EE078 to SW NDB or as directed. At 1280' (661') immediately contact Radar.					MSA NL NDB

Alt Set: MM (hPa on req)

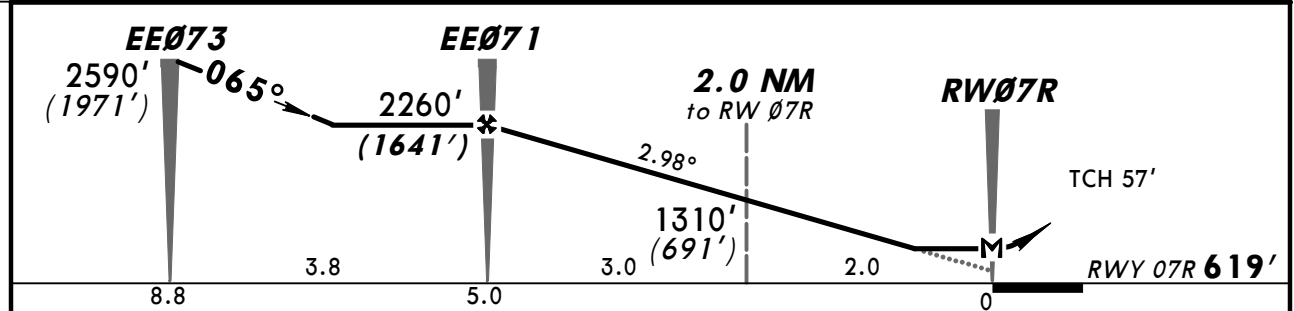
QNH on req (QFE)

Trans level: By ATC

Trans alt: 3920' (3301')



DIST to RW07R	4.9	3.8	2.7	1.1
ALTITUDE (HAT)	2210' (1591')	1870' (1251')	1530' (911')	1020' (401')



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI 1020' (401') or above to MM RWY 25L
Descent Angle 2.98°	369	474	527	633	738	843	
MAP at RW07R							

STRAIGHT-IN LANDING RWY 07R							
MDA(H) 990' (371')				ALS out			
A							
B	RVR 720m VIS 800m			RVR 1500m VIS 1600m			
C							
D	RVR 1500m VIS 1600m			RVR 1800m VIS 2000m			

MISSED APCH CLIMB

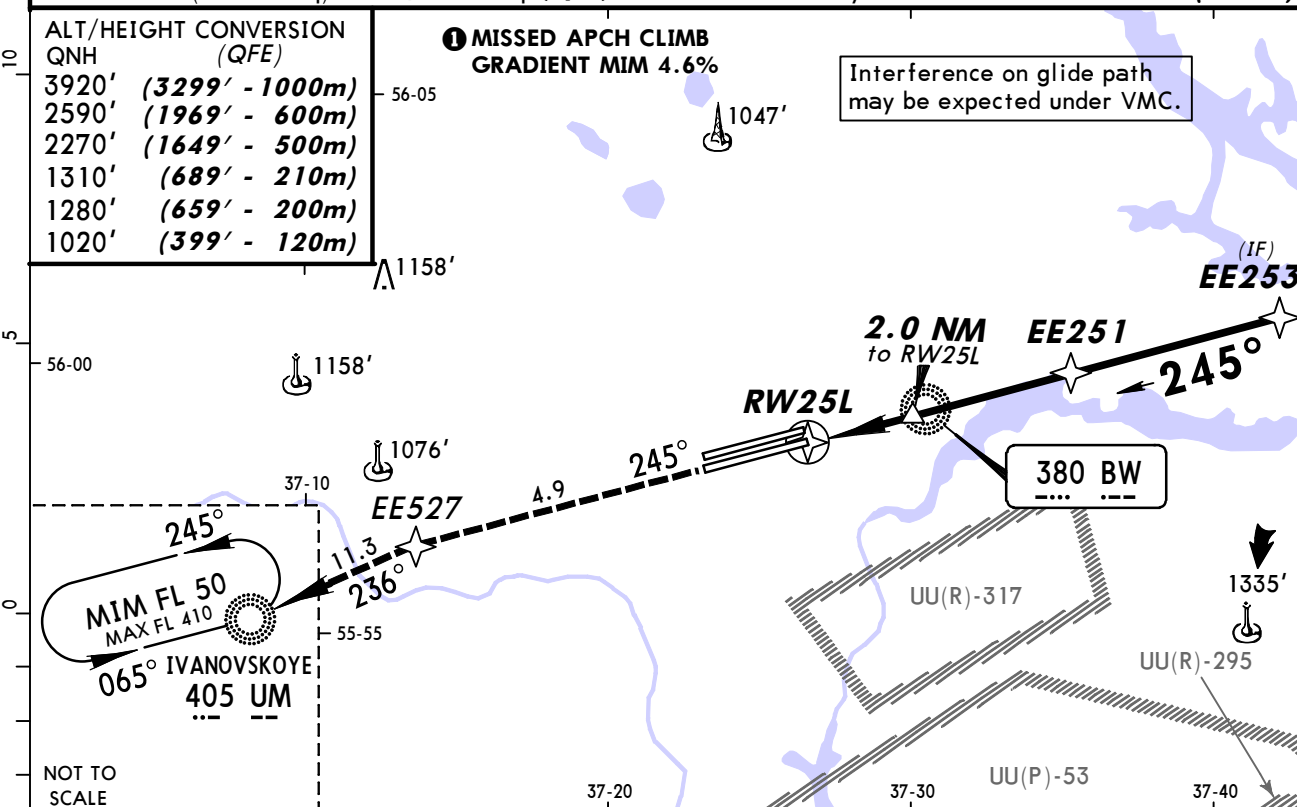
GRADIENT MIM 4.6%

from 1020' (401')

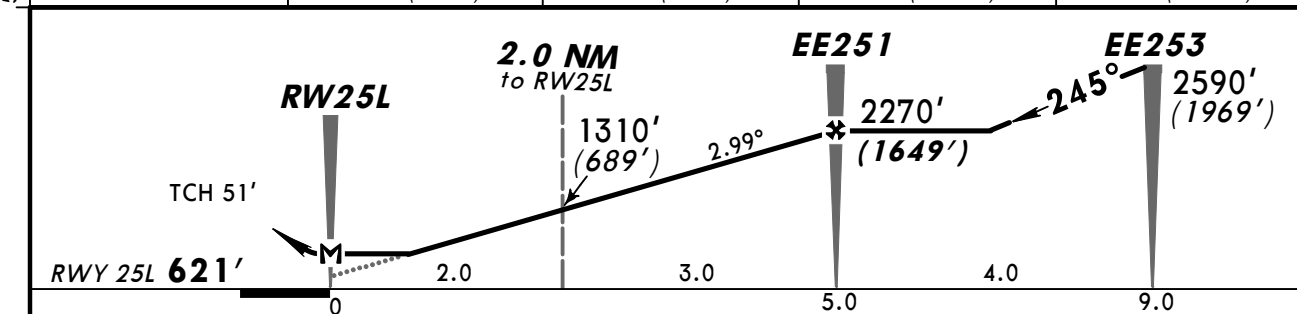
to 2590' (1971')

BRIEFING STRIP™

ATIS 125.12 (Russian 126.37)		SHEREMETYEVO Apch1 119.3		SHEREMETYEVO Apch2 123.7	
SHEREMETYEVO Radar 118.1		SHEREMETYEVO Precision (TWR) 120.7		Ground 121.8	
RNAV	Final Apch Crs 245°	Minimum Alt EE251 2270' (1649')	MDA(H) 990' (369')	Apt Elev 630' RWY 621'	2600' 270° 4000' 360° MSA BW NDB
MISSED APCH: Climb STRAIGHT AHEAD to 2590' (1969') or above to EE527, then turn LEFT climbing to UM NDB. At 1280' (659') immediately contact Radar.					
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: By ATC	
				Trans alt: 3920' (3299')	



DIST to RW25L	1.1	2.7	3.8	4.9
ALTITUDE (HAT)	1020' (399')	1530' (909')	1870' (1249')	2220' (1599')



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI 2590' (1969') or above EE527
Descent Angle 2.99°	370	476	529	635	741	846	
MAP at RW25L							

STRAIGHT-IN LANDING RWY 25L 1							
MDA(H) 990' (369')				ALS out			
A							
B	RVR 720m VIS 800m			RVR 1500m VIS 1600m			
C							
D	RVR 1500m VIS 1600m			RVR 1800m VIS 2000m			

1 Missed apch climb gradient mim 4.6% from 1020' (399') to 2590' (1969').

ATIS

125.12 (Russian 126.37)

SHEREMETYEVO Apch1

119.3

SHEREMETYEVO Apch2

123.7

SHEREMETYEVO Radar

118.1

SHEREMETYEVO Precision (TWR)

131.5

Ground

119.0

RNAV

Final Apch Crs 245°

Minimum Alt EE252 2270' (1648')

MDA(H) 990' (368')

Apt Elev 630' RWY 622'

MSA AD NDB

MISSED APCH: Climb STRAIGHT AHEAD to 1020' (398') or above to MM Rwy 07L, then turn RIGHT climbing to 3580' (2958') to EE526, then proceed to KN NDB, to EE708, to SW NDB, or as directed. At 1280' (658') immediately contact Radar.

Alt Set: MM (hPa on req)

QNH on req (QFE)

Trans level: By ATC

Trans alt: 3920' (3298')

ALT/HEIGHT CONVERSION

QNH	(QFE)
3920'	(3298' - 1000m)
3580'	(2958' - 900m)
2590'	(1968' - 600m)
2270'	(1648' - 500m)
1320'	(698' - 210m)
1280'	(658' - 200m)
1020'	(398' - 120m)

DIST to RW25R	1.1	2.7	3.8	4.9
ALTITUDE (HAT)	1020' (398')	1530' (908')	1870' (1248')	2220' (1598')

Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 2.98°	369	474	527	633	738	843
MAP at RW25R						

HIALS-II

PAP

1020' (398') or above

MM Rwy 07L

STRAIGHT-IN LANDING RWY 25R

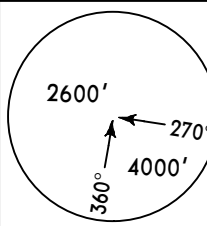
MDA(H) 990' (368')

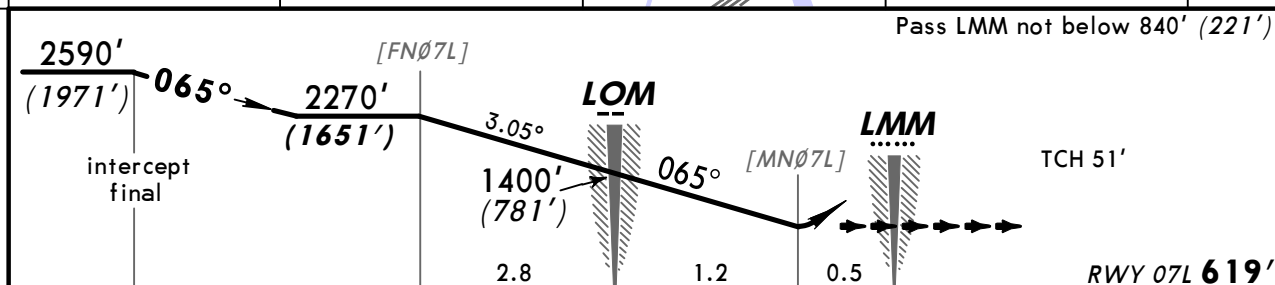
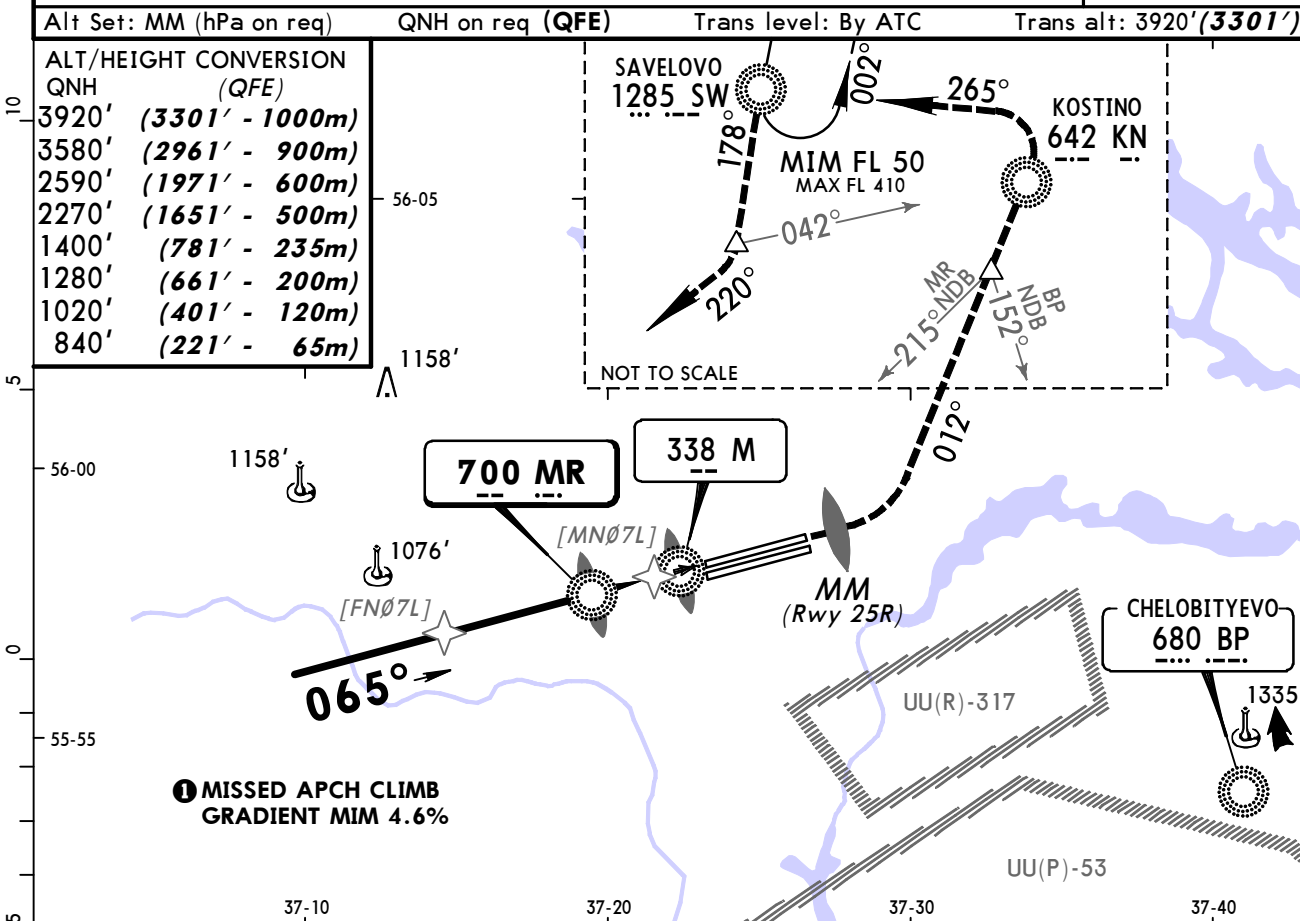
ALS out

A		
B	RVR 720m VIS 800m	RVR 1500m VIS 1600m
C		
D	RVR 1500m VIS 1600m	RVR 1800m VIS 2000m

Misused apch climb gradient mim 4.6% from 1020' (398') to 2590' (1968').

BRIEFING STRIP

ATIS 125.12 (Russian 126.37)		SHERMETEYEV Apch1 119.3		SHERMETEYEV Apch2 123.7	
SHERMETEYEV Radar 118.1		SHERMETEYEV Precision (TWR) 131.5		Ground 119.0	
NDB MR 700	Final Apch Crs 065°	Minimum Alt LOM 1400' (781')	MDA(H) Refer to Minimums	Apt Elev 630' RWY 619'	
MISSED APCH: Climb STRAIGHT AHEAD to 1020' (401') or above to MM Rwy 25R, turn LEFT climbing onto 012° to cross 215° MR NDB/152° BP NDB at 2590' (1971'). Proceed to KN NDB to pass it at 3580' (2961') or as directed. At 1280' (661') immediately contact Radar.					
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3920' (3301')					



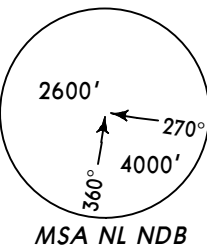
Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.05°	378	486	540	648	755	863

STRAIGHT-IN LANDING RWY 07L			
with radar control		w/o radar control	
MDA(H) 970' (351')		MDA(H) 1400' (781')	
ALS out		ALS out	
A		3200m	
B	1200m	RVR 1500m	3200m
C		VIS 1600m	3600m
D	RVR 1500m	RVR 1800m	4000m
	VIS 1600m	VIS 2000m	

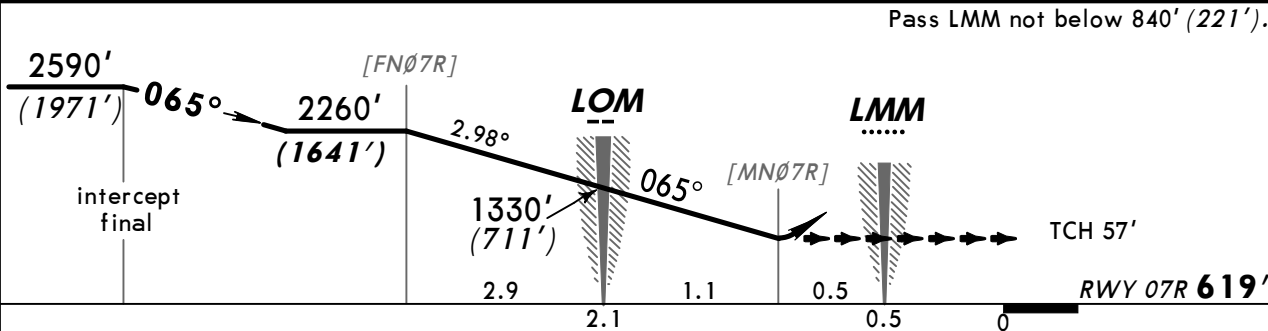
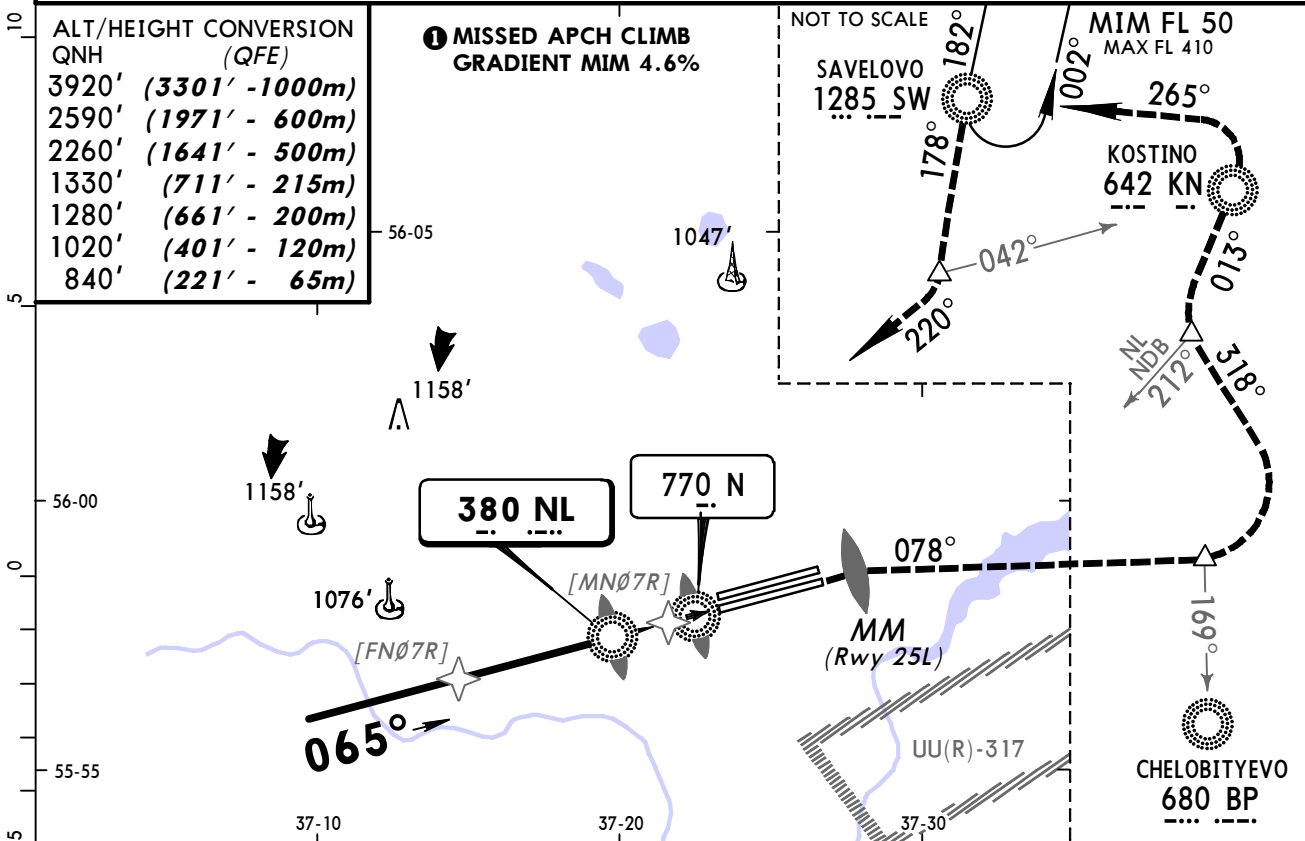
Missed apch climb gradient mim 4.6% from 1020' (401') to 2590' (1971').

CHANGES: Missed apch climb grad. Minimums.

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ATIS 125.12 (Russian 126.37)		SHEREMETYEVO Apch1 119.3		SHEREMETYEVO Apch2 123.7	
SHEREMETYEVO Radar 118.1		SHEREMETYEVO Precision (TWR) 120.7		Ground 121.8	
NDB NL 380	Final Apch Crs 065°	Minimum Alt LOM 1330' (711')	MDA(H) Refer to Minimums	Apt Elev 630' RWY 619'	
MISSED APCH: Climb STRAIGHT AHEAD to 1020' (401') or above to MM Rwy 25L, turn RIGHT climbing onto 078° to cross 169° BP NDB at 2590' (1971'), turn LEFT onto 318°, proceed to 212° NL NDB, turn RIGHT onto 013° to KN NDB to pass it at 2590' (1971') or as directed. At 1280' (661') immediately contact Radar.					

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3920' (**3301'**)



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	1020' (401') or above to MM RWY 25L
Descent Angle 2.98°	369	474	527	633	738	843		

STRAIGHT-IN LANDING RWY 07R			
with radar control		w/o radar control	
MDA(H) 970' (351')		MDA(H) 1400' (781')	
ALS out		ALS out	
A		3200m	
B	1200m	RVR 1500m VIS 1600m	
C		3200m	3600m
D	RVR 1500m VIS 1600m	RVR 1800m VIS 2000m	3600m 4000m

M Missed apch climb gradient mim 4.6% from 1020' (401') to 2590' (1971').

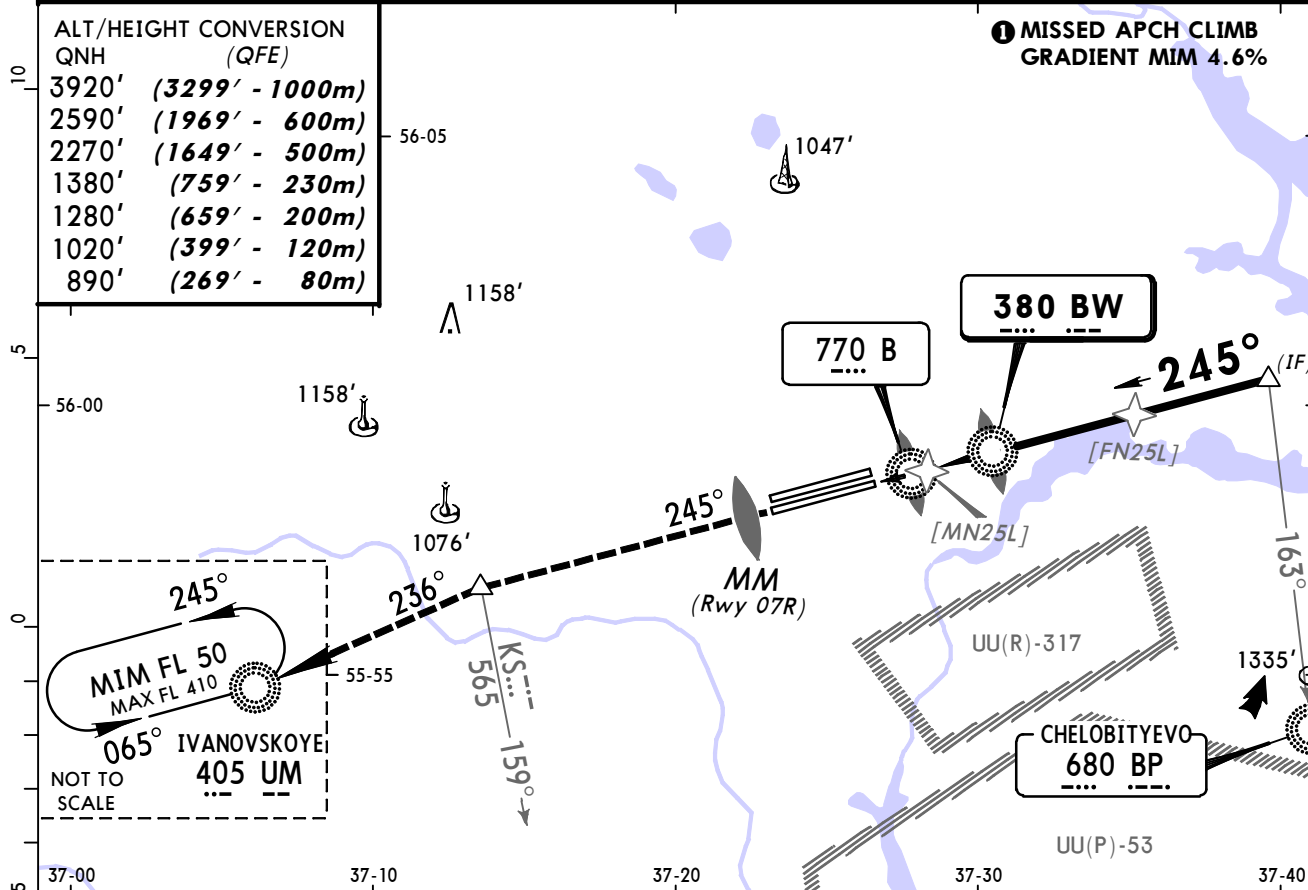
UUEE/SVO
SHEREMETYEVO

JEPPESEN
7 DEC 12 (26-3) Eff 13 Dec

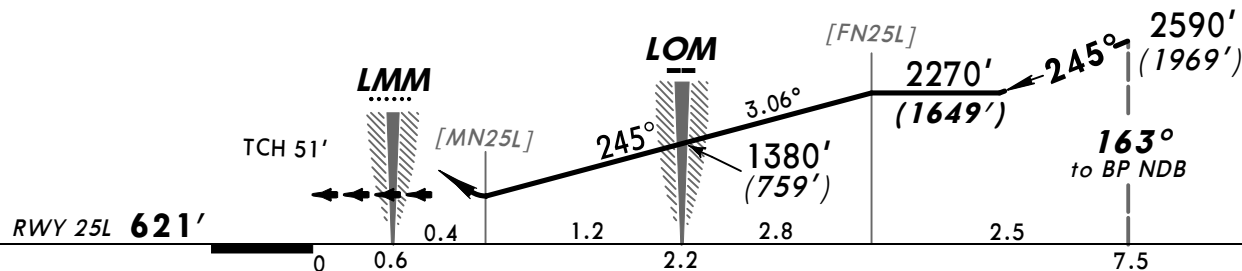
MOSCOW, RUSSIA
2 NDB Rwy 25L

BRIEFING STRIP

ATIS 125.12 (Russian 126.37)		SHEREMETYEVO Apch1 119.3		SHEREMETYEVO Apch2 123.7	
SHEREMETYEVO Radar 118.1		SHEREMETYEVO Precision (TWR) 120.7		Ground 121.8	
NDB BW 380	Final Apch Crs 245°	Minimum Alt LOM 1380' (759')	MDA(H) Refer to Minimums	Apt Elev 630' RWY 621'	2600' 270° 4000' 360° MSA BW NDB
MISSED APCH: Climb STRAIGHT AHEAD to 1020' (399') or above to MM Rwy 07R, then proceed to 159° to KS NDB climbing to 2590' (1969'), then climb on 236° to UM NDB as directed. At 1280' (659') immediately contact Radar.					
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3920' (3299')					



Pass LMM not below 890' (269').



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.06°	379	487	541	650	758	866

HIALS-II	1020' (399') or above	MM Rwy 07R
PAPI		

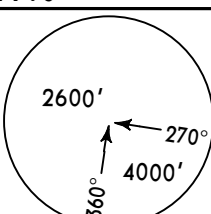
STRAIGHT-IN LANDING RWY 25L				1 NDB			
2 NDB		2 NDB		1 NDB		1 NDB	
with radar control	MDA(H) 980' (359')	w/o radar control	MDA(H) 1050' (429')	with radar control	MDA(H) 990' (369')	w/o radar control	MDA(H) 1400' (779')
ALS out		ALS out		ALS out		ALS out	
A							
B	1200m	RVR 1500m VIS 1600m	1200m	RVR 1500m VIS 1600m	1200m	RVR 1500m VIS 1600m	3200m
C							
D	RVR 1500m VIS 1600m	RVR 1800m VIS 2000m	RVR 1800m VIS 2000m	2400m	RVR 1500m VIS 1600m	RVR 1800m VIS 2000m	3600m 4000m

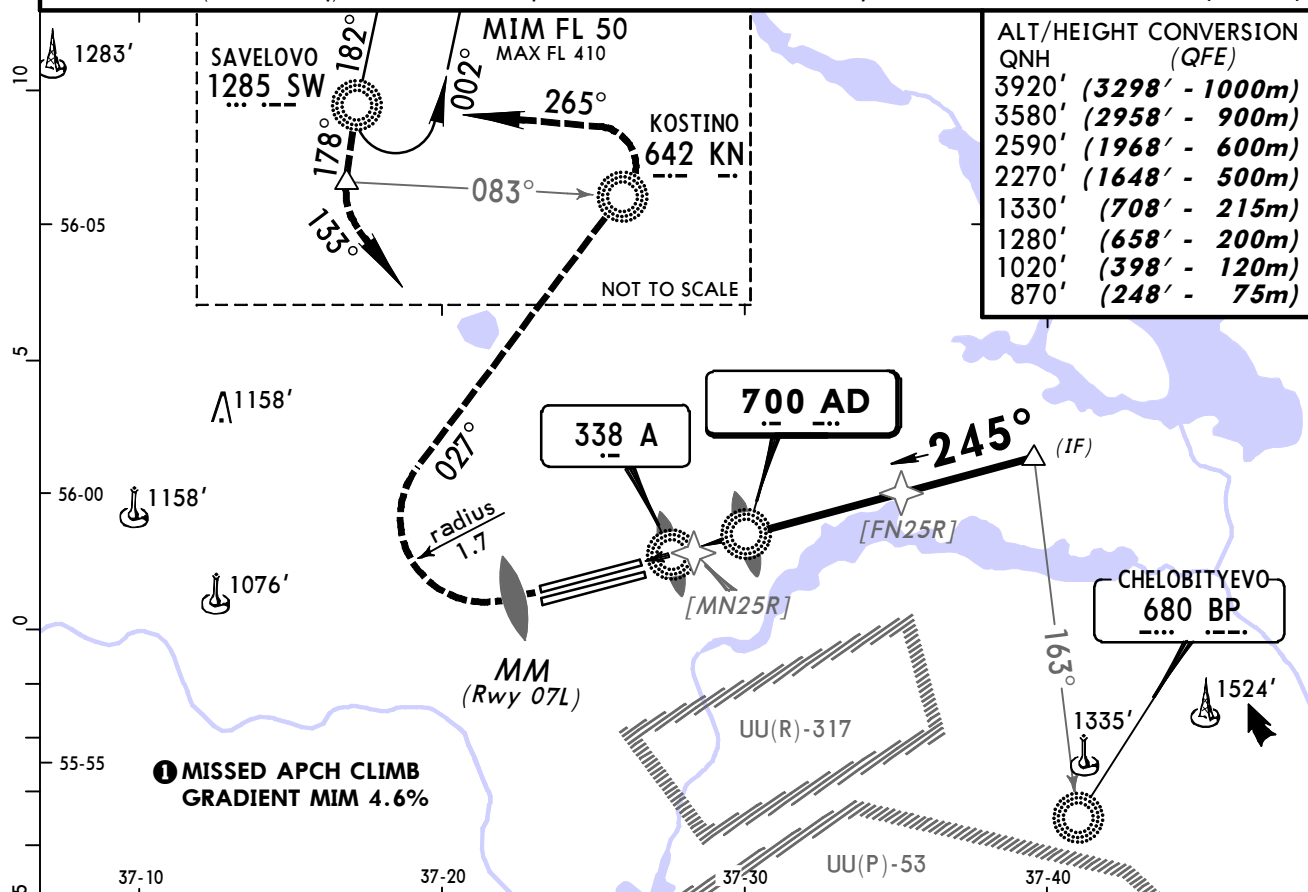
① Missed apch climb gradient mim 4.6% from 1020' (399') to 2590' (1969').

CHANGES: Missed apch climb grad. Minimums.

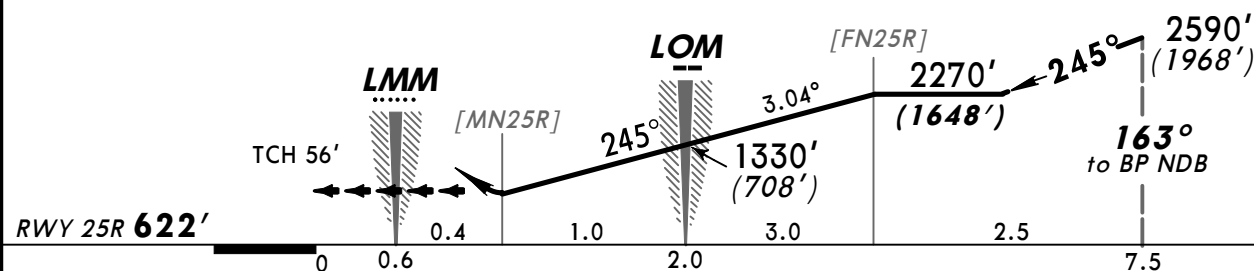
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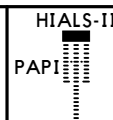
BRIEFING STRIP

ATIS 125.12 (Russian 126.37)		SHEREMETYEVO Apch1 119.3		SHEREMETYEVO Apch2 123.7	
SHEREMETYEVO Radar 118.1		SHEREMETYEVO Precision (TWR) 131.5		Ground 119.0	
NDB AD 700	Final Apch Crs 245°	Minimum Alt LOM 1330'(708')	2 NDB MDA(H) 980'(358')	Apt Elev 630' RWY 622'	 MSA AD NDB
MISSED APCH: Climb STRAIGHT AHEAD to 1020' (398') or above to MM Rwy 07L, then turn RIGHT onto 027° climbing to 3580' (2958') to KN NDB, or as directed. At 1280'(658') immediately contact Radar.					
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: By ATC	
				Trans alt: 3920'(3298')	



Pass LMM not below 870' (248').



Gnd speed-Kts	70	90	100	120	140	160		1020' (398') or above	MM Rwy 07L
Descent Angle 3.04°	376	484	538	645	753	861			

2 NDB		STRAIGHT-IN LANDING RWY 25R 1		1 NDB	
MDA(H) 980' (358')		with radar control MDA(H) 990' (368')		w/o radar control MDA(H) 1400' (778')	
ALS out		ALS out		ALS out	
A					
B	1200m	RVR 1500m VIS 1600m	1200m	RVR 1500m VIS 1600m	3200m
C					3200m 3600m
D	RVR 1500m VIS 1600m	RVR 1800m VIS 2000m	RVR 1500m VIS 1600m	RVR 1800m VIS 2000m	3600m 4000m

① Missed apch climb gradient mim 4.6% from 1020' (398') to 2590' (1968').

Chart changes since cycle 24-2012

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

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
MOSCOW, (SHEREMETYEVO - UUEE)				
REV	BOGDANOVO 1E, LARIONOVO 1...	20-2B	07 Dec 2012	13 Dec 2012
REV	GAGARIN & OKTYABRSKIY 1E,...	20-2C	07 Dec 2012	13 Dec 2012
REV	BESTA & KOSTINO 07D DEPS	20-3H	07 Dec 2012	13 Dec 2012
REV	BESTA & KOSTINO 07E DEPS	20-3J	07 Dec 2012	13 Dec 2012
REV	CHERUSTI, NERL & TIMIG 1E...	20-3S	07 Dec 2012	13 Dec 2012
REV	SUGIR 1E & 2E, VENEV 1E, ...	20-3T	07 Dec 2012	13 Dec 2012
REV	AIRPORT	20-9	07 Dec 2012	13 Dec 2012
REV	AIRPORT INFO, TAKE-OFF MN...	20-9A	07 Dec 2012	13 Dec 2012
REV	PARKING STANDS & COORDS (...)	20-9B	07 Dec 2012	13 Dec 2012
REV	PARKING STANDS & COORDS (...)	20-9C	07 Dec 2012	13 Dec 2012
REV	STANDARD MNMS	20-9S	07 Dec 2012	13 Dec 2012
REV	STANDARD MNMS (CONTD)	20-9S1	07 Dec 2012	13 Dec 2012
REV	JAA MNMS	20-9X	07 Dec 2012	13 Dec 2012
REV	JAA MNMS CONTD	20-9X1	07 Dec 2012	13 Dec 2012
REV	ILS OR PAR RWY 07L	21-1	07 Dec 2012	13 Dec 2012
REV	ILS OR PAR RWY 07R	21-2	07 Dec 2012	13 Dec 2012
REV	CAT II ILS RWY 07R	21-2A	07 Dec 2012	13 Dec 2012
REV	ILS OR PAR RWY 25L	21-3	07 Dec 2012	13 Dec 2012
REV	CAT II ILS RWY 25L	21-3A	07 Dec 2012	13 Dec 2012
REV	ILS OR PAR RWY 25R	21-4	07 Dec 2012	13 Dec 2012
REV	CAT II ILS RWY 25R	21-4A	07 Dec 2012	13 Dec 2012
REV	RNAV (GNSS) RWY 07L	22-1	07 Dec 2012	13 Dec 2012
REV	RNAV (GNSS) RWY 07R	22-2	07 Dec 2012	13 Dec 2012
REV	RNAV (GNSS) RWY 25L	22-3	07 Dec 2012	13 Dec 2012
REV	RNAV (GNSS) RWY 25R	22-4	07 Dec 2012	13 Dec 2012
REV	2 NDB RWY 07L	26-1	07 Dec 2012	13 Dec 2012
REV	2 NDB RWY 07R	26-2	07 Dec 2012	13 Dec 2012
REV	2 NDB RWY 25L	26-3	07 Dec 2012	13 Dec 2012
REV	2 NDB RWY 25R	26-4	07 Dec 2012	13 Dec 2012

TERMINAL CHART CHANGE NOTICES

Chart Change Notices for Airport UUEE

Type: Terminal

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

(20-2C) Eff 18 Oct 12 coords of AO NDB changed to N55 09.2 E038 17.3.

Type: Terminal

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

Eff 18 Oct 12 coords of following NDBs changed: (20-2B) BD to N57 06.5 E037 42.7, MF to N56 01.6 E039 38.1; (20-2C) FE to N54 14.4 E038 54.1, FK to N55 33.3 E035 01.3, IN to N54 36.6 E037 19.4; (20-3T) FV to N54 20.7 E038 14.3; IP replaced by waypoint SUGIR at N55 44.0 E036 38.6.

Type: Terminal

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

Eff 18 Oct 12 coordinates of following NDB changed: RW to N55 42.7 E038 13.7, KS to N55 49.5 E037 16.3.