

PART 3 – AERODROMES (AD)

AD 0.

AD 0.6 TABLE OF CONTENTS TO PART 3



PART 3 – AERODROMES (AD)

AD 0.

PART 3 – AERODROMES (AD)

- AD 0.
- AD 1. AERODROMES/HELIPORTS - INTRODUCTION
- AD 1.1 AERODROME/HELIPORT AVAILABILITY
- AD 1.1.1 OCCASIONAL USE OF MIL AERODROMES BY CIV ACFT
- AD 1.1.2 OCCASIONAL USE OF CIV AERODROMES BY MIL ACFT
- AD 1.1.3 PERSONS ON BOARD (POB)
- AD 1.1.4 HEL LANDING SITES NOT PUBLISHED IN THE (MIL)AIP
- AD 1.1.5 SPECIAL ARRANGEMENTS
- AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN
- AD 1.2.1 RESCUE AND FIREFIGHTING SERVICES
- AD 1.2.2 SNOW PLAN
- AD 1.3 INDEX TO AERODROMES AND HELIPORTS

AD 2. AERODROMES

DEELEN

- EHDL AD 2.1 Aerodrome location indicator and name
- EHDL AD 2.2 Geographical and administrative data
- EHDL AD 2.3 Operational hours
- EHDL AD 2.4 Handling services and facilities
- EHDL AD 2.5 Passenger facilities
- EHDL AD 2.6 Rescue and fire fighting services
- EHDL AD 2.7 Seasonal availability - clearing
- EHDL AD 2.8 Aprons, taxiways and check locations/positions data
- EHDL AD 2.9 Surface movement guidance and control system and markings
- EHDL AD 2.10 Aerodrome obstacles
- EHDL AD 2.11 Meteorological information provided
- EHDL AD 2.12 Runway physical characteristics
- EHDL AD 2.13 Declared distances
- EHDL AD 2.14 Approach and runway lighting
- EHDL AD 2.15 Other lighting, secondary power supply
- EHDL AD 2.16 Helicopter landing area
- EHDL AD 2.17 Air traffic services airspace
- EHDL AD 2.18 Air traffic services communication facilities
- EHDL AD 2.19 Radio navigation and landing aids
- EHDL AD 2.20 Local traffic regulations
- EHDL AD 2.21 Noise abatement procedures



| | |
|--------------|--------------------------------|
| EHDL AD 2.22 | Flight procedures |
| EHDL AD 2.23 | Additional information |
| EHDL AD 2.24 | Charts related to an aerodrome |

DE PEEL

| | |
|--------------|---------------------------------------|
| EHDP AD 2.1 | Aerodrome location indicator and name |
| EHDP AD 2.2 | Geographical and administrative data |
| EHDP AD 2.3 | Operational hours |
| EHDP AD 2.17 | Air traffic services airspace |

EINDHOVEN

| | |
|--------------|---|
| EHEH AD 2.1 | Aerodrome location indicator and name |
| EHEH AD 2.2 | Geographical and administrative data |
| EHEH AD 2.3 | Operational hours |
| EHEH AD 2.4 | Handling services and facilities |
| EHEH AD 2.5 | Passenger facilities |
| EHEH AD 2.6 | Rescue and fire fighting services |
| EHEH AD 2.7 | Seasonal availability - clearing |
| EHEH AD 2.8 | Aprons, taxiways and check locations/positions data |
| EHEH AD 2.9 | Surface movement guidance and control system and markings |
| EHEH AD 2.10 | Aerodrome obstacles |
| EHEH AD 2.11 | Meteorological information provided |
| EHEH AD 2.12 | Runway physical characteristics |
| EHEH AD 2.13 | Declared distances |
| EHEH AD 2.14 | Approach and runway lighting |
| EHEH AD 2.15 | Other lighting, secondary power supply |
| EHEH AD 2.16 | Helicopter landing area |
| EHEH AD 2.17 | Air traffic services airspace |
| EHEH AD 2.18 | Air traffic services communication facilities |
| EHEH AD 2.19 | Radio navigation and landing aids |
| EHEH AD 2.20 | Local traffic regulations |
| EHEH AD 2.21 | Noise abatement procedures |
| EHEH AD 2.22 | Flight procedures |
| EHEH AD 2.23 | Additional information |
| EHEH AD 2.24 | Charts related to an aerodrome |

GILZE RIJEN

| | |
|-------------|---------------------------------------|
| EHGR AD 2.1 | Aerodrome location indicator and name |
| EHGR AD 2.2 | Geographical and administrative data |
| EHGR AD 2.3 | Operational hours |
| EHGR AD 2.4 | Handling services and facilities |
| EHGR AD 2.5 | Passenger facilities |

| | |
|--------------|---|
| EHGR AD 2.6 | Rescue and fire fighting services |
| EHGR AD 2.7 | Seasonal availability - clearing |
| EHGR AD 2.8 | Aprons, taxiways and check locations/positions data |
| EHGR AD 2.9 | Surface movement guidance and control system and markings |
| EHGR AD 2.10 | Aerodrome obstacles |
| EHGR AD 2.11 | Meteorological information provided |
| EHGR AD 2.12 | Runway physical characteristics |
| EHGR AD 2.13 | Declared distances |
| EHGR AD 2.14 | Approach and runway lighting |
| EHGR AD 2.15 | Other lighting, secondary power supply |
| EHGR AD 2.16 | Helicopter landing area |
| EHGR AD 2.17 | Air traffic services airspace |
| EHGR AD 2.18 | Air traffic services communication facilities |
| EHGR AD 2.19 | Radio navigation and landing aids |
| EHGR AD 2.20 | Local traffic regulations |
| EHGR AD 2.21 | Noise abatement procedures |
| EHGR AD 2.22 | Flight procedures |
| EHGR AD 2.23 | Additional information |
| EHGR AD 2.24 | Charts related to an aerodrome |

DE KOOY

| | |
|--------------|---|
| EHKD AD 2.1 | Aerodrome location indicator and name |
| EHKD AD 2.2 | Geographical and administrative data |
| EHKD AD 2.3 | Operational hours |
| EHKD AD 2.4 | Handling services and facilities |
| EHKD AD 2.5 | Passenger facilities |
| EHKD AD 2.6 | Rescue and fire fighting services |
| EHKD AD 2.7 | Seasonal availability - clearing |
| EHKD AD 2.8 | Aprons, taxiways and check locations/positions data |
| EHKD AD 2.9 | Surface movement guidance and control system and markings |
| EHKD AD 2.10 | Aerodrome obstacles |
| EHKD AD 2.11 | Meteorological information provided |
| EHKD AD 2.12 | Runway physical characteristics |
| EHKD AD 2.13 | Declared distances |
| EHKD AD 2.14 | Approach and runway lighting |
| EHKD AD 2.15 | Other lighting, secondary power supply |
| EHKD AD 2.16 | Helicopter landing area |
| EHKD AD 2.17 | Air traffic services airspace |
| EHKD AD 2.18 | Air traffic services communication facilities |
| EHKD AD 2.19 | Radio navigation and landing aids |
| EHKD AD 2.20 | Local traffic regulations |
| EHKD AD 2.21 | Noise abatement procedures |

| | |
|--------------|--------------------------------|
| EHKD AD 2.22 | Flight procedures |
| EHKD AD 2.23 | Additional information |
| EHKD AD 2.24 | Charts related to an aerodrome |

LEEUWARDEN

| | |
|--------------|---|
| EHLW AD 2.1 | Aerodrome location indicator and name |
| EHLW AD 2.2 | Geographical and administrative data |
| EHLW AD 2.3 | Operational hours |
| EHLW AD 2.4 | Handling services and facilities |
| EHLW AD 2.5 | Passenger facilities |
| EHLW AD 2.6 | Rescue and fire fighting services |
| EHLW AD 2.7 | Seasonal availability - clearing |
| EHLW AD 2.8 | Aprons, taxiways and check locations/positions data |
| EHLW AD 2.9 | Surface movement guidance and control system and markings |
| EHLW AD 2.10 | Aerodrome obstacles |
| EHLW AD 2.11 | Meteorological information provided |
| EHLW AD 2.12 | Runway physical characteristics |
| EHLW AD 2.13 | Declared distances |
| EHLW AD 2.14 | Approach and runway lighting |
| EHLW AD 2.15 | Other lighting, secondary power supply |
| EHLW AD 2.16 | Helicopter landing area |
| EHLW AD 2.17 | Air traffic services airspace |
| EHLW AD 2.18 | Air traffic services communication facilities |
| EHLW AD 2.19 | Radio navigation and landing aids |
| EHLW AD 2.20 | Local traffic regulations |
| EHLW AD 2.21 | Noise abatement procedures |
| EHLW AD 2.22 | Flight procedures |
| EHLW AD 2.23 | Additional information |
| EHLW AD 2.24 | Charts related to an aerodrome |

VOLKEL

| | |
|--------------|---|
| EHVK AD 2.1 | Aerodrome location indicator and name |
| EHVK AD 2.2 | Geographical and administrative data |
| EHVK AD 2.3 | Operational hours |
| EHVK AD 2.4 | Handling services and facilities |
| EHVK AD 2.5 | Passenger facilities |
| EHVK AD 2.6 | Rescue and fire fighting services |
| EHVK AD 2.7 | Seasonal availability - clearing |
| EHVK AD 2.8 | Aprons, taxiways and check locations/positions data |
| EHVK AD 2.9 | Surface movement guidance and control system and markings |
| EHVK AD 2.10 | Aerodrome obstacles |
| EHVK AD 2.11 | Meteorological information provided |



| | |
|--------------|---|
| EHVK AD 2.12 | Runway physical characteristics |
| EHVK AD 2.13 | Declared distances |
| EHVK AD 2.14 | Approach and runway lighting |
| EHVK AD 2.15 | Other lighting, secondary power supply |
| EHVK AD 2.16 | Helicopter landing area |
| EHVK AD 2.17 | Air traffic services airspace |
| EHVK AD 2.18 | Air traffic services communication facilities |
| EHVK AD 2.19 | Radio navigation and landing aids |
| EHVK AD 2.20 | Local traffic regulations |
| EHVK AD 2.21 | Noise abatement procedures |
| EHVK AD 2.22 | Flight procedures |
| EHVK AD 2.23 | Additional information |
| EHVK AD 2.24 | Charts related to an aerodrome |

WOENSDRECHT

| | |
|--------------|---|
| EHWO AD 2.1 | Aerodrome location indicator and name |
| EHWO AD 2.2 | Geographical and administrative data |
| EHWO AD 2.3 | Operational hours |
| EHWO AD 2.4 | Handling services and facilities |
| EHWO AD 2.5 | Passenger facilities |
| EHWO AD 2.6 | Rescue and fire fighting services |
| EHWO AD 2.7 | Seasonal availability - clearing |
| EHWO AD 2.8 | Aprons, taxiways and check locations/positions data |
| EHWO AD 2.9 | Surface movement guidance and control system and markings |
| EHWO AD 2.10 | Aerodrome obstacles |
| EHWO AD 2.11 | Meteorological information provided |
| EHWO AD 2.12 | Runway physical characteristics |
| EHWO AD 2.13 | Declared distances |
| EHWO AD 2.14 | Approach and runway lighting |
| EHWO AD 2.15 | Other lighting, secondary power supply |
| EHWO AD 2.16 | Helicopter landing area |
| EHWO AD 2.17 | Air traffic services airspace |
| EHWO AD 2.18 | Air traffic services communication facilities |
| EHWO AD 2.19 | Radio navigation and landing aids |
| EHWO AD 2.20 | Local traffic regulations |
| EHWO AD 2.21 | Noise abatement procedures |
| EHWO AD 2.22 | Flight procedures |
| EHWO AD 2.23 | Additional information |
| EHWO AD 2.24 | Charts related to an aerodrome |

INTENTIONALLY LEFT BLANK

PART 3 – AERODROMES (AD)

AD 1.

AD 1.1 AERODROME/HELIPORT AVAILABILITY



AD 1. AERODROMES/HELIPORTS - INTRODUCTION

AD 1.1 AERODROME/HELIPORT AVAILABILITY

AD 1.1.1 OCCASIONAL USE OF MIL AERODROMES BY CIV ACFT

By decree of the Minister of Defence several MIL ADs in the Netherlands may occasionally be used by CIV ACFT. Use of the MIL ADs concerned is subject to the particulars published in the AIP Netherlands.

AD 1.1.2 OCCASIONAL USE OF CIV AERODROMES BY MIL ACFT

By decree of the Director-General of Civil Aviation a number of CIV ADs may occasionally be used by MIL ACFT. These ADs shall only be used in case of emergency, in times of tension and/or with special permission of the Chief of the Airstaff. Exercise flights are not included in aforementioned exceptions. The ADs concerned are:

For national and international flights:

- Amsterdam/Schiphol
- Deventer/Teuge
- Groningen/Eelde
- Hilversum
- Hoeven/Seppe
- Maastricht/Zuid-Limburg
- Middelburg/Midden-Zeeland
- Rotterdam
- Texel

For national flights only:

- Ameland
- Weert/Budel
- Hoogeveen
- Emmeloord/Noordoostpolder

Detailed information concerning above mentioned ADs is listed in the AIP Netherlands.

AD 1.1.3 PERSONS ON BOARD (POB)

At first radiocontact with the ATC unit of a MIL AD (APP, CAPP or TWR) the Pilot in Command shall report the number of POB. In case of omission the ATC unit will request this information.

AD 1.1.4 HEL LANDING SITES NOT PUBLISHED IN THE (MIL)AIP

Information about HEL landing sites not published in the (Mil)AIP may be obtained through MOD The Hague or from Wing Operations Gilze-Rijen. Use of these landing sites is subject to prior permission by the Military Aviation Authority.

AD 1.1.5 SPECIAL ARRANGEMENTS

HEL, belonging to the SAR organisation of the 'Bundeswehr' stationed at Rheine and Wuerselen, are exempted from the rules, as stated in AD 1.1.3. For special agreement upon SAR operations within the sea- and coastal area see GEN 3.6.

INTENTIONALLY LEFT BLANK

PART 3 – AERODROMES (AD)

AD 1.

AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN

AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN

AD 1.2.1 RESCUE AND FIREFIGHTING SERVICES

The crash, rescue and fire fighting capacity at the Netherlands MIL ADs is in accordance with STANAG 3712.

The crash equipment categories on the respective ADs are given on the relevant page of each AD.

AD 1.2.2 SNOW PLAN

During the winter season MIL ADs will issue SNOWTAM containing information according to the SNOWTAM format of ICAO Annex 15, Appendix 2 (STANAG 3634).

Numbering of the SNOWTAM for each AD will start with 01 at the beginning of the season.

A SNOWTAM will be issued immediately when circumstances so require like snow, ice, slush, etc. on runways, taxiways and aprons.

A new SNOWTAM will be issued when conditions have changed significantly, including the return to normal conditions.

If, during operational HRS, conditions have not changed a new SNOWTAM will be issued in principle every 6 HRS confirming the unchanged conditions.

In case where no 6-hourly confirmation by SNOWTAM is given, the maximum validity of the last issued SNOWTAM concerning that AD is 24 HRS.

Notification of the closure or reopening of an AD or RWY, as a result of snow and ice conditions, will be promulgated by NOTAM.

INTENTIONALLY LEFT BLANK

PART 3 – AERODROMES (AD)

AD 1.

AD 1.3 INDEX TO AERODROMES AND HELIPORTS

AD 1.3 INDEX TO AERODROMES AND HELIPORTS

| NAME | LOCATION INDICATOR | OPERATED BY |
|-------------|--------------------|-----------------------------|
| Deelen | EHDL | Royal Netherlands Air Force |
| De Kooy | EHKD | Royal Netherlands Air Force |
| Eindhoven | EHEH | Royal Netherlands Air Force |
| Gilze-Rijen | EHGR | Royal Netherlands Air Force |
| Leeuwarden | EHLW | Royal Netherlands Air Force |
| Volkel | EHVK | Royal Netherlands Air Force |
| Woensdrecht | EHWO | Royal Netherlands Air Force |

NOTE: Use of HEL landing sites outside ADs is subject to prior approval by CLSK/Breda.

**MIL AERODROME INDEX**

PART 3 – AERODROMES (AD)

AD 2.

AD 2. AERODROMES DEELEN



AD 2. AERODROMES

DEELEN

EHDL AD 2.1 Aerodrome location indicator and name

EHDL - Deelen

EHDL AD 2.2 Geographical and administrative data

| | | |
|---|---|--|
| 1 | ARP | 52°03'35.02"N 005°52'18.97"E |
| 2 | Direction and distance from city | 340° MAG/4.5 NM ARNHEM |
| 3 | Elevation/Reference temperature | + 158 ft AMSL/22.0° C (AUG) |
| 4 | MAG VAR/Annual change | 1°58'E (JAN 2020)/11'E |
| 5 | AD operating authority Postal address Visitors' address Telephone Telefax AFTN | RNLAF DHC Vliegbasis Gilze-Rijen attn C931 tav Vliegbasis Deelen MPC 89A P.O. Box 8762 4820 BB Breda Koningsweg 30 F 6816 TG ARNHEM +31(0)346 335901/902 +31(0)26 3531325 No |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHDL AD 2.3 Operational hours

| | | |
|---|-------------------------|------------------------------------|
| 1 | AD OPR HR | OPN for RNLAF HEL at various times |
| 2 | Customs and immigration | 48 HR PN |
| 3 | Health and sanitation | O/R |
| 4 | AIS Briefing office | Via EHGR |
| 5 | MET Briefing Office | Via EHGR |
| 6 | ATS | HO |
| 7 | Security | HO |
| 8 | Remarks | PPR 24 HRS |

EHDL AD 2.4 Handling services and facilities

Not AVBL

EHDL AD 2.5 Passenger facilities

| | | |
|---|--------------------|-----|
| 1 | Remain overnight | Nil |
| 2 | Medical facilities | O/R |
| 3 | Remarks | Nil |

EHDL AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|------------------------|
| 1 | AD category for fire fighting | NATO CAT 4 NATO H-3 |
| 2 | Remarks | Nil |

EHDL AD 2.7 Seasonal availability - clearing

Not AVBL

EHDL AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|---|
| 1 | Apron surface and strength | Concrete, LCN 30 (PCN not AVBL) |
| 2 | TWY width, surface and strength | Width 36 ft, tarmac/concrete, LCN 30 (PCN not AVBL) |
| 3 | Remarks | Nil |

EHDL AD 2.9 Surface movement guidance and control system and markings

According STANAG 3158

1 | Remarks | Nil

EHDL AD 2.10 Aerodrome obstacles

See Aerodrome Chart

EHDL AD 2.11 Meteorological information provided

| | | |
|---|--|--|
| 1 | Associated MET Office | Joint Meteorological Group |
| 2 | Hours of service MET Office outside hours | HO N/A |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | None N/A |
| 5 | Flight documentation Language(s) used | Reports, forecast and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHDL AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|------------------------------------|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | LCN 30 (PCN not AVBL) |

EHDL AD 2.13 Declared distances

See Aerodrome Chart. Values in ft.

EHDL AD 2.14 Approach and runway lighting

| According STANAG 3316 | | |
|-----------------------|-------------------|-------------------------------------|
| 1 | Approach lighting | RWY 19: CAT I. 783 m RWY 01: Nil |
| 2 | RWY lighting | RWY 19 VHI/VCL, RWY 01 VHI |
| 3 | Remarks | Nil |

EHDL AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|-----------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | Nil |
| 3 | Emergency RWY lighting | Nil |
| 4 | Emergency TWY edge lighting | Nil |
| 5 | Secondary power supply/switch-over | AVBL, switch over time 15 seconds |
| 6 | Remarks | Nil |

EHDL AD 2.16 Helicopter landing area

| | | |
|---|---------------------------|--|
| 1 | Location | Four helisquares (non-STANAG) are situated in main grass area east of RWY 19/01. |
| 2 | Marking | Daylight marking |
| 3 | Lighting | Yes |
| 4 | Remarks | Nil |
| 5 | Panels for local circuits | 4 panels for helicopter circuits direction 01/19, on the northern part of the main grass area; Several take-off and landing spots for special exercises (after Tower Permission); All taxi tracks (after permission from ATC). |

EHDL AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|--|
| 1 | Designation and lateral limits | Deelen control zone 52°09'57.93"N 005°50'23.30"E; 52°12'05.96"N 005°51'26.74"E; 52°10'20.78"N 006°00'46.06"E; 52°08'12.82"N 005°59'42.21"E; along clockwise arc (radius 6.5 NM, centre 52°03'35.02"N 005°52'18.97"E) to 51°57'12.08"N 005°54'14.21"E; 51°55'03.92"N 005°53'10.91"E; 51°56'48.76"N 005°43'54.59"E; 51°58'56.70"N 005°44'57.34"E; along clockwise arc (radius 6.5 NM, centre 52°03'35.02"N 005°52'18.97"E) to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Deelen TWR. English |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHDL AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|--|-------|--|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Deelen Tower | 129.930 ^{*)} 122.100 ^{**) O/R} 312.400 ^{*)} 257.800 ^{**) O/R} | HO | ^{*)} Primary FREQ ^{**) O/R} |
| APP | RAPCON West | 123.580 399.725 | HO | Radar equipped |

EHDL AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|-------------------------|-----|------------------|-------|-----------------------------------|--------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| TACAN | DLN | CH 59X | H24 | 52°03'26.45"N 005°52'21.47"E | 40 NM/25000 ft | FREQ protected |
| ILS19 LOCAL- IZER | DNS | 108.700 | H24 | 52°02'45.383"N 005°51'54.422"E | | |
| GLIDE- PATH | | 330.500 | H24 | 52°04'02.944"N 005°52'27.312"E | | ILS-antenna 201ft AMSL |
| DME 19 | DNS | CH 24X | H24 | 52°04'02.944"N 005°52'27.312"E | | Situated on Glidepath 20. One direction only. |

EHDL AD 2.20 Local traffic regulations

Start-up

Prior to engine start, pilots request a start-up clearance from TWR stating callsign, position, POB and if an IFR clearance is required the (R)ETD. Start-up permission will be given including QNH, wind, circuit direction in use and birdstatus/migration (if higher than normal).

Taxi

Prior to taxi, pilots request taxi permission from Deelen TWR and state intended runway intersection, departure panel or parking spot. Taxi instructions, RWY or circuit in use and wind will be given. Runways may be used for taxi after permission from ATC. Hover-taxi outside taxi tracks and runways is only allowed after permission from ATC. Tactical Transition (in R/T referred to as hop-over/re-positioning) may be approved traffic permitting. (Hover-)Taxi speed shall not exceed 20 kts. Wheeled helicopters will ground taxi when approaching aprons. If mechanical problems prohibit ground taxi, hover taxi is permitted. Helicopters will not hover taxi within 50 ft of buildings. Use extreme caution regarding rotor-wash around buildings and other aircraft. During UDP, aircraft taxi with anti-collision and position lights on. Outside UDP all aircraft use a red anti-collision light. Outside UDP, ATC may order to turn off anti-collision light and put navigation light to dim-mode during aided/NVG operations. When taxiing to the refuel platform, after landing taxi in via Y, abeam the most westerly B-Dispersal ground taxi into the Refuel Platform is mandatory. When leaving the Refuel Platform for a Zulu-departure, taxi via the North track to the east for a departure direction south. When leaving the Refuel Platform for a Charlie departure taxi via the North track and East track to the east for a departure direction north or south.

Circuit Procedures

HELICOPTERS

All circuits have to be flown within 2 NM from ARP. If a NATO standard rectangular circuit cannot be flown within these boundaries, crosswind and baseleg may be executed conducting a 180° turn. Baseleg turns should be initiated at a point situated 45° to the intended landing spot unless otherwise instructed by ATC. When intending to join a circuit from one of the departure locations on the airfield or from one of the IPs, the pilot will be instructed to join downwind, baseleg or final. Normal circuit altitude is 750 ft AMSL. Downwind for RWY 01/19 is situated on the west side of the RWY. Circuits for confined landing spots may be flown between 250 ft and 400 ft AMSL. Deviation of circuit altitude only permitted after permission from ATC. Circuit direction 13/31 to be used at Confined West, Confined Tower, Confined East. Circuit direction 07/25 to be used on Line 300. Landing on helicopter panels shall be performed on the first panel in the landing direction and on the inside panel of the circuit. Hover as soon as possible to the first panel in the departure direction. Pilots will be informed when Terlet Areas are active and shall stay clear of activated Terlet Areas.

Night Flying

Helicopter night flying can be done in a conventional way (UNAIDED) or with use of vision enhancing systems (AIDED).

Circuit flying will be done according the VFR local helicopter circuits at standard altitude. Use of searchlight or landing light during circuit flying only after permission of ATC. During night-time all aircraft shall use a red anti-collision light. ATC may order to turn off the anti-collision light and put the navigation light to dim-mode during aided operations. Helicopters will have navigation lights on in dim-mode during aided operations. Airfield lighting will be off during aided flying and will be switched on on request. A mix of aided and unaided flying is only possible when the navigation lights of the aircraft flying aided are turned on in bright mode.

Special Helicopter Procedures

Three Slope areas are available for slope landings: The Alpha Slope is located north of dispersal A-4. The Midfield Slope is located on the midfield grass areas. The Echo Slope is located between dispersals E-2 and E-3. Two Sling areas are available for sling operations, fast roping etc. Sling West is located on the westernmost part of the main grass area. Sling operations are also allowed at other locations on the main grass area, after approval from ATC. A sling area for experimental test loads is located on the concrete pad at the crossroads of Boerenpad and Oude Duitse Baan. This sling area will be used for Test Loads only. After pick-up, circuits are flown on the Main Grass West Side or as approved by ATC. Four confined landing spots are available: Confined West, Confined Tower, Confined West and Confined Line 300. Circuits will be flown in the direction in use at the time, or in direction 13/31 and 07/25 where applicable.

Glider and Light Aircraft Flying

Glider site Terlet is located within the Deelen CTR/RMZ. Daily within UDP the areas Terlet 1, Terlet 2, and Terlet 3 (see Local map) can be activated. Intense glider flying may be expected during activation of these areas.

EHDL AD 2.21 Noise abatement procedures

All aircraft flying in the CTR must avoid overflying build-up areas. Overflying Burger's Zoo in Arnhem is prohibited.

EHDL AD 2.22 Flight procedures

Approach procedures

HELICOPTERS

All arriving helicopter report prior to entering CTR and state callsign, type of aircraft, position and intentions.

Arrival as directed by ATC via one of the following IPs:

| IP | Name | PSN | Alt AMSL | Remarks |
|----|------------|------------------------------|----------|---|
| W | West | 52°02'09.00"N 005°48'56.40"E | 1000 ft | approx. 2 NM SW of AD |
| WH | West Hoeve | 52°06'04.20"N 005°57'07.20"E | 750 ft | approx. 3 NM NE of AD |
| E | East | 52°01'48.60"N 005°55'44.40"E | 750 ft | along highway 1 NM north of intersection motorway A-50. |

An IP is a mandatory reporting point. Altitude deviation shall be requested. After passing the IP, ATC will direct the pilot to join the circuit for the intended landing spot.

Departure procedures

The take-off clearance includes an instruction to make a (left or right) turn either to join one of the helicopter circuits or to leave via one of the IPs, as requested by the pilot. Departure direction is to be maintained until a safe altitude is reached to perform the instructed turn.

Lost Communications procedures

HELICOPTERS

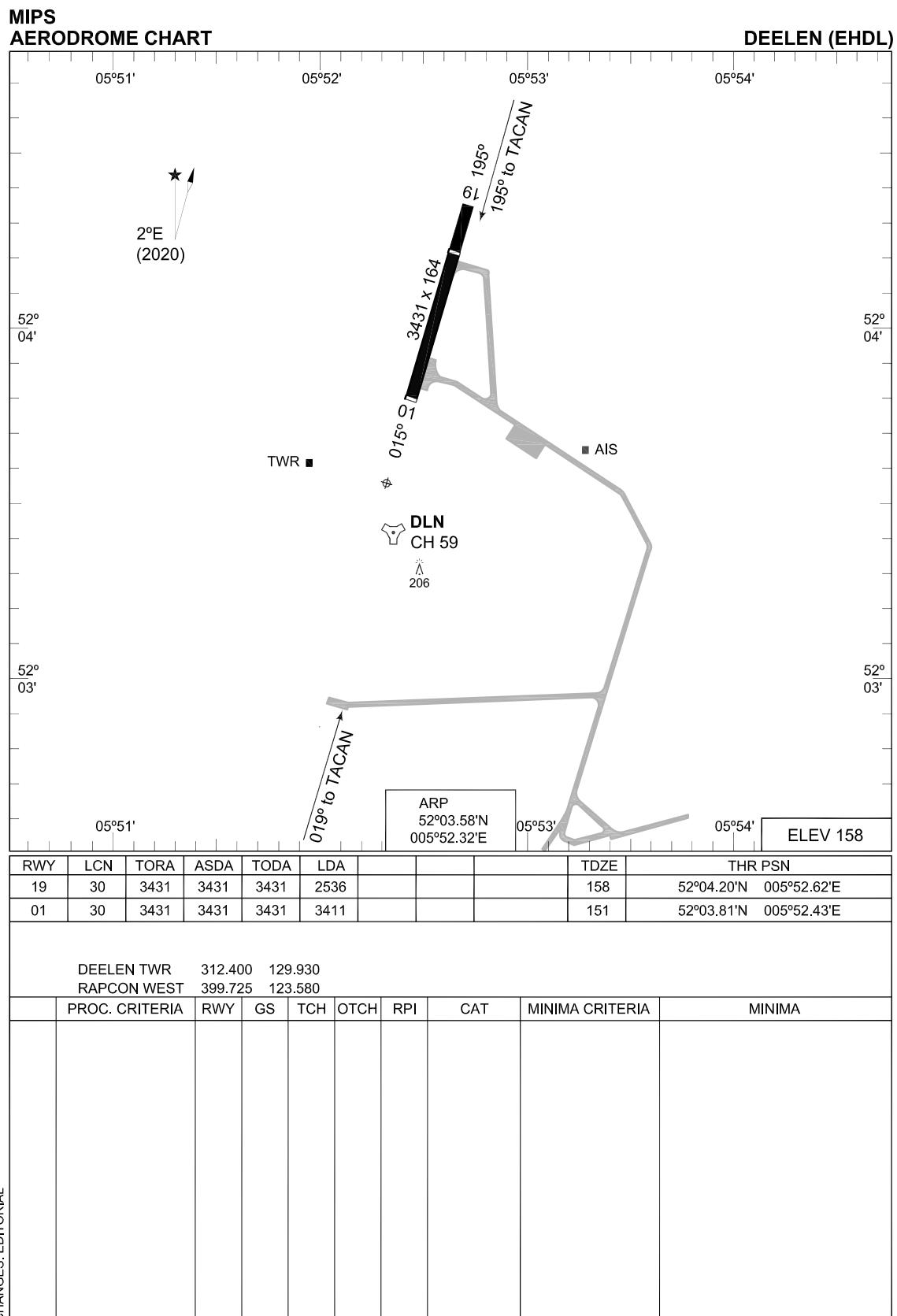
When approaching CTR, squawk 7600, switch on landing light and proceed to IP West at 700 ft AMSL. If entering from the east, stay well clear of the airfield and its circuits and cross the extended centerline for RWY 01 South of the field at 700 ft AMSL at 6 NM, and proceed to IP West. After passing IP West proceed for a left hand downwind for RWY 01 or right hand downwind for RWY 19. ATC will give a light signal on downwind. Green is to proceed, including crossing and landing clearance. Red is to join the beginning of downwind again. For simulated non-comms procedure squawk 3766.

EHDL AD 2.23 Additional information

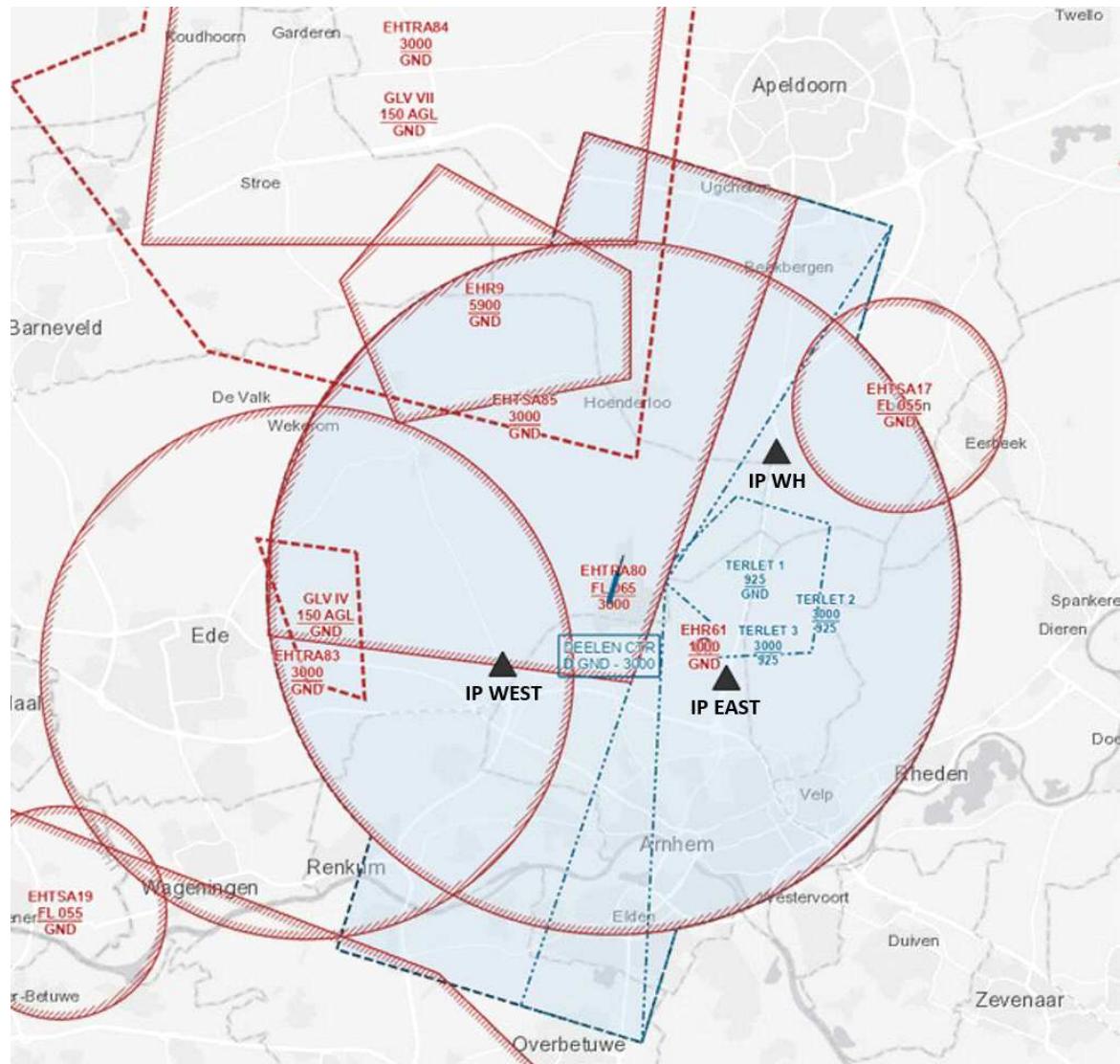
Approach control through Rapcon West.

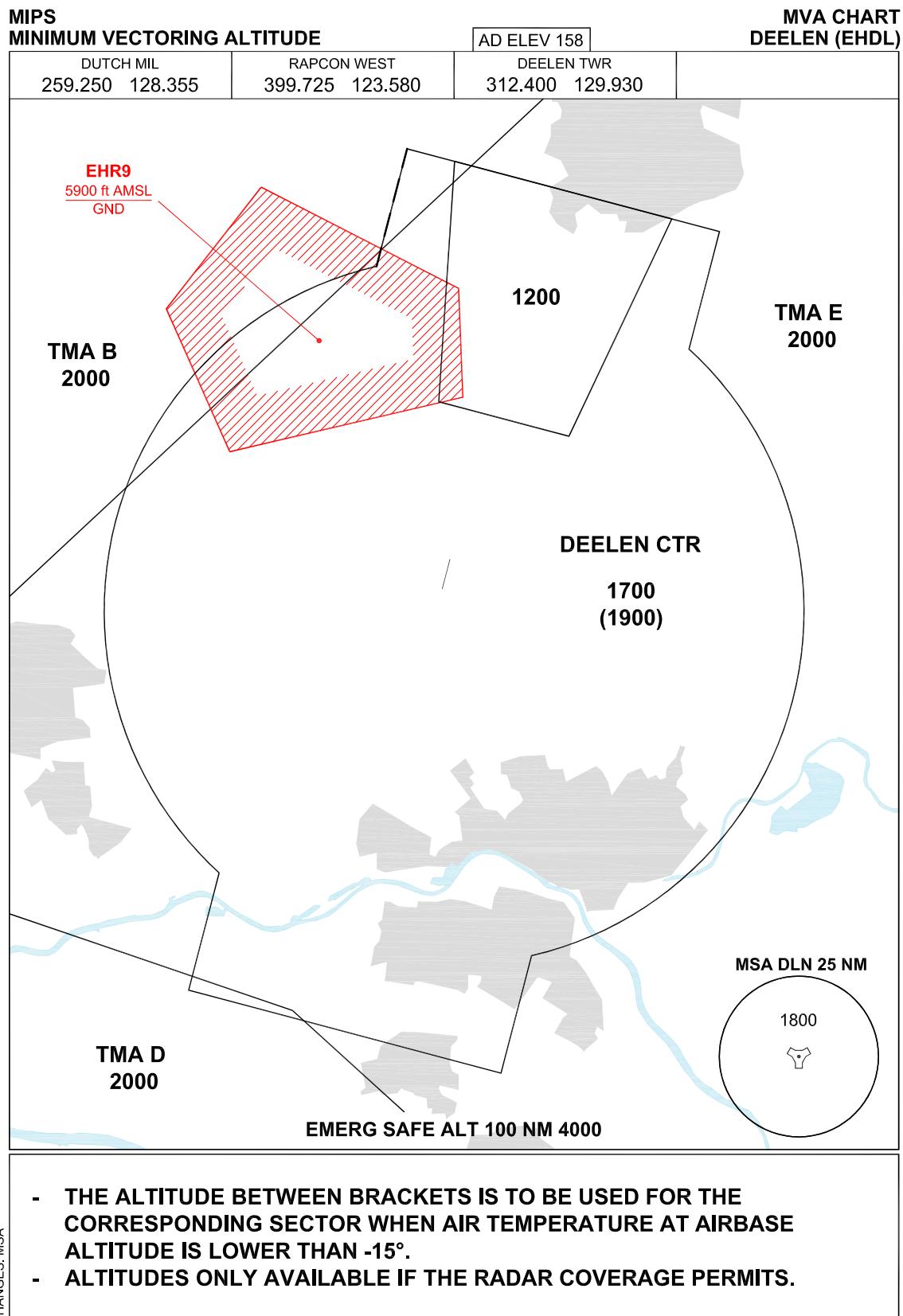
EHDL AD 2.24 Charts related to an aerodrome

| | |
|---|--------------|
| Aerodrome Chart | EHDL AD 2-9 |
| Local map | EHDL AD 2-10 |
| MVA chart | EHDL AD 2-11 |
| Instrument approach chart TACAN RWY 01 | EHDL AD 2-13 |
| Instrument approach chart Copter TACAN 01 | EHDL AD 2-14 |
| Instrument approach chart ILS or LOC RWY 19 | EHDL AD 2-15 |
| Instrument approach chart TACAN RWY 19 | EHDL AD 2-16 |
| Instrument approach chart Copter TACAN 19 | EHDL AD 2-17 |



LOCAL MAP





Co-ordinates

TERLET 1:

For execution of flying activities, within the CTR/RMZ Deelen the following area can be assigned to the NZC Terlet up to the tower boundary of Terlet-2 or Terlet-3, limited by the following co-ordinates:

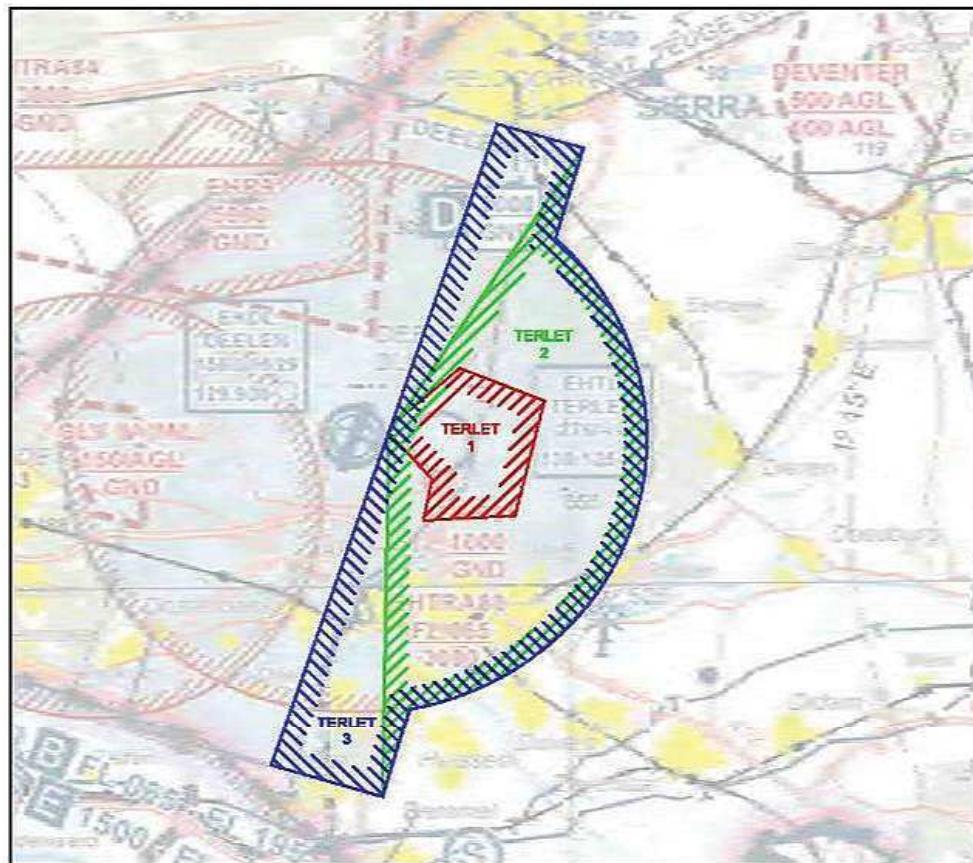
| Terlet-1 |
|--|
| 52°05'18,00"N 005°56'03.00"E; 52°04'47,00"N 005°58'54.00"E; 52°02'22,62"N 005°58'20.14"E; 52°02'16,67"N 005°55'05.35"E; 52°02'57,94"N 005°55'13.66"E; 52°03'41,40"N 005°53'53.77"E; 52°04'07,26"N 005°54'09.39"E; to point of origin. vertical limits; GND-925 ft AMSL |

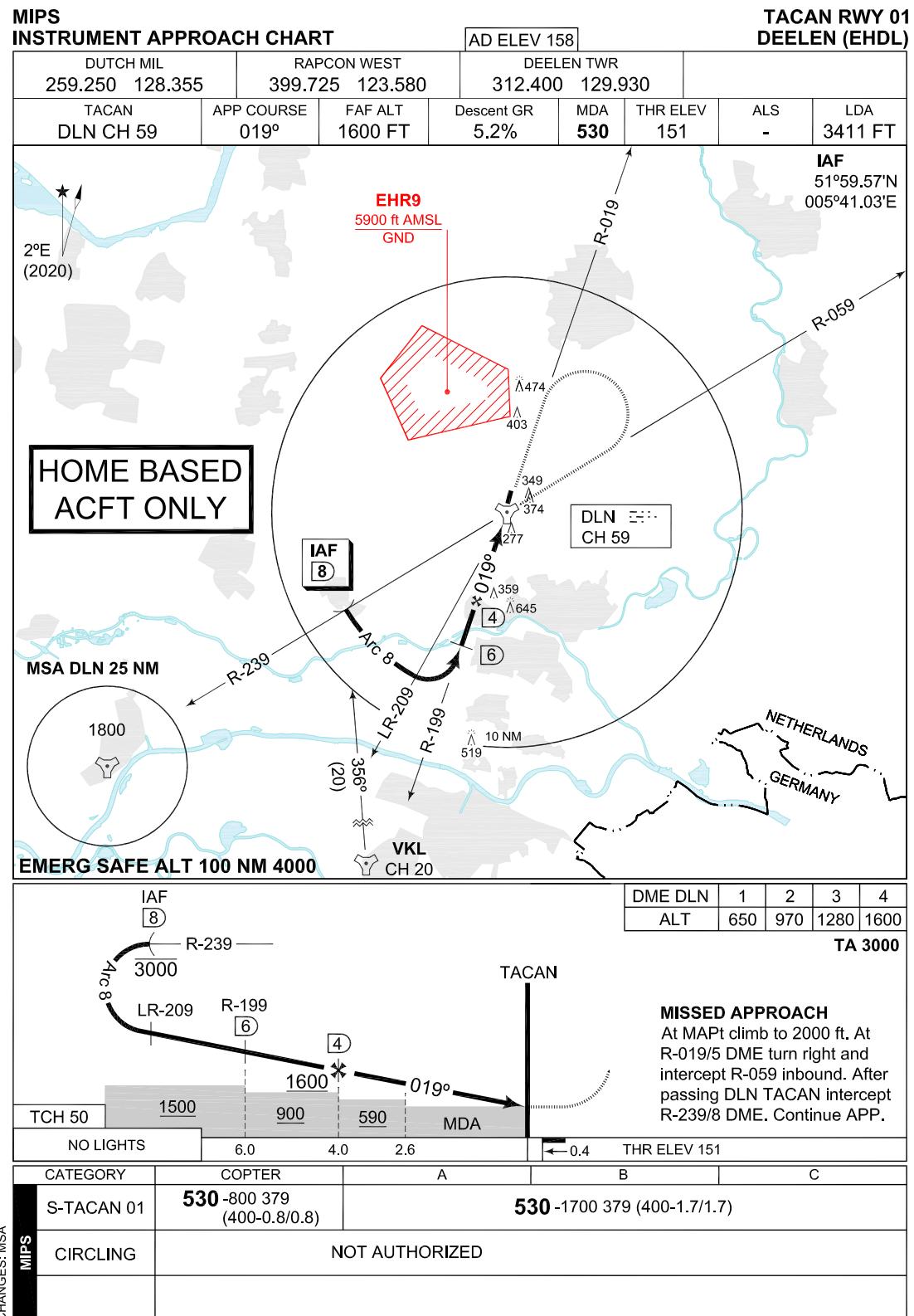
As supplement to area Terlet 1, area Terlet 2 or Terlet 3 needs to be assigned.

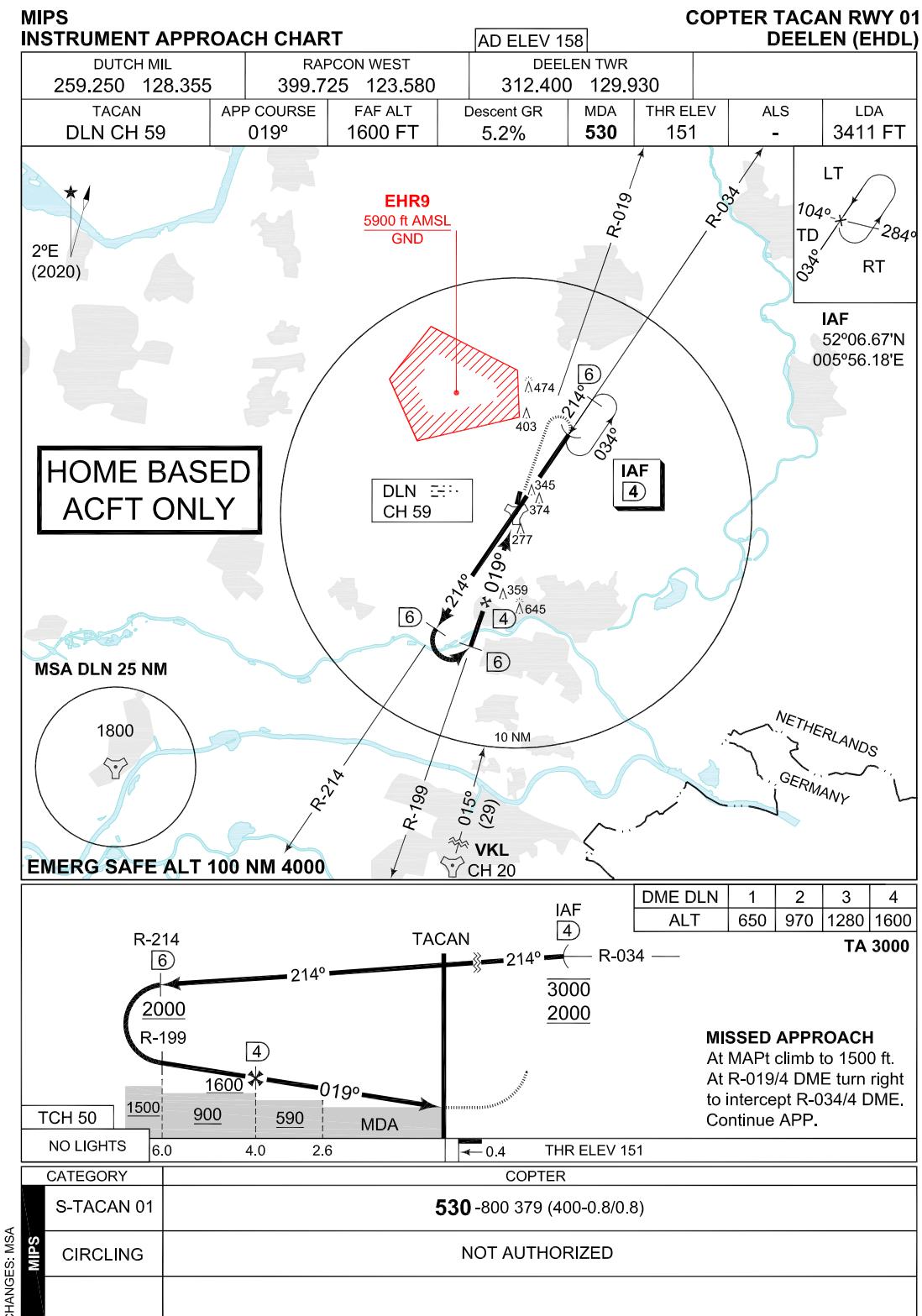
TERLET-2, TERLET-3:

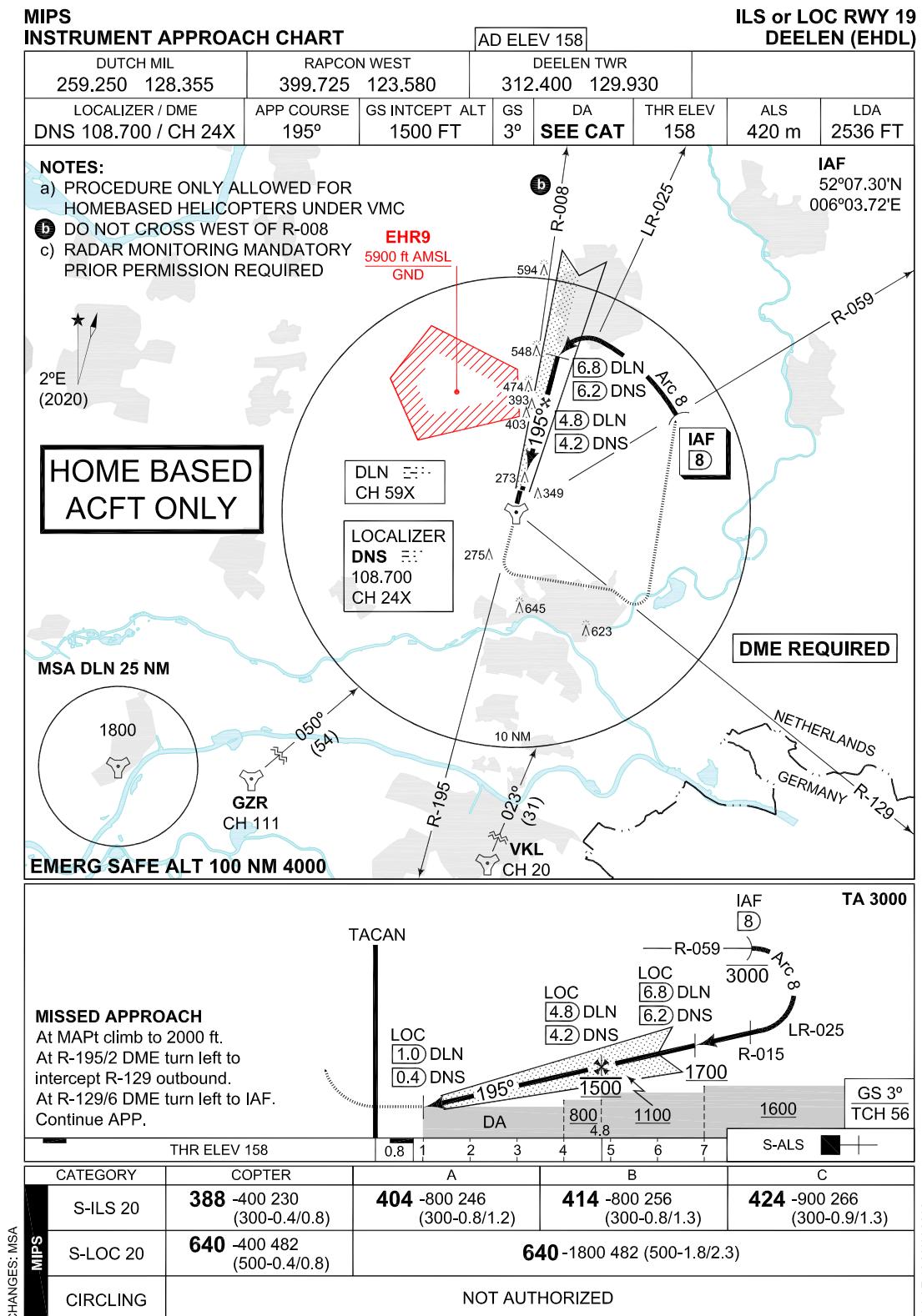
The upper limit is equal to the upper limit of the CTR/RMZ Deelen limited by the following coordinates:

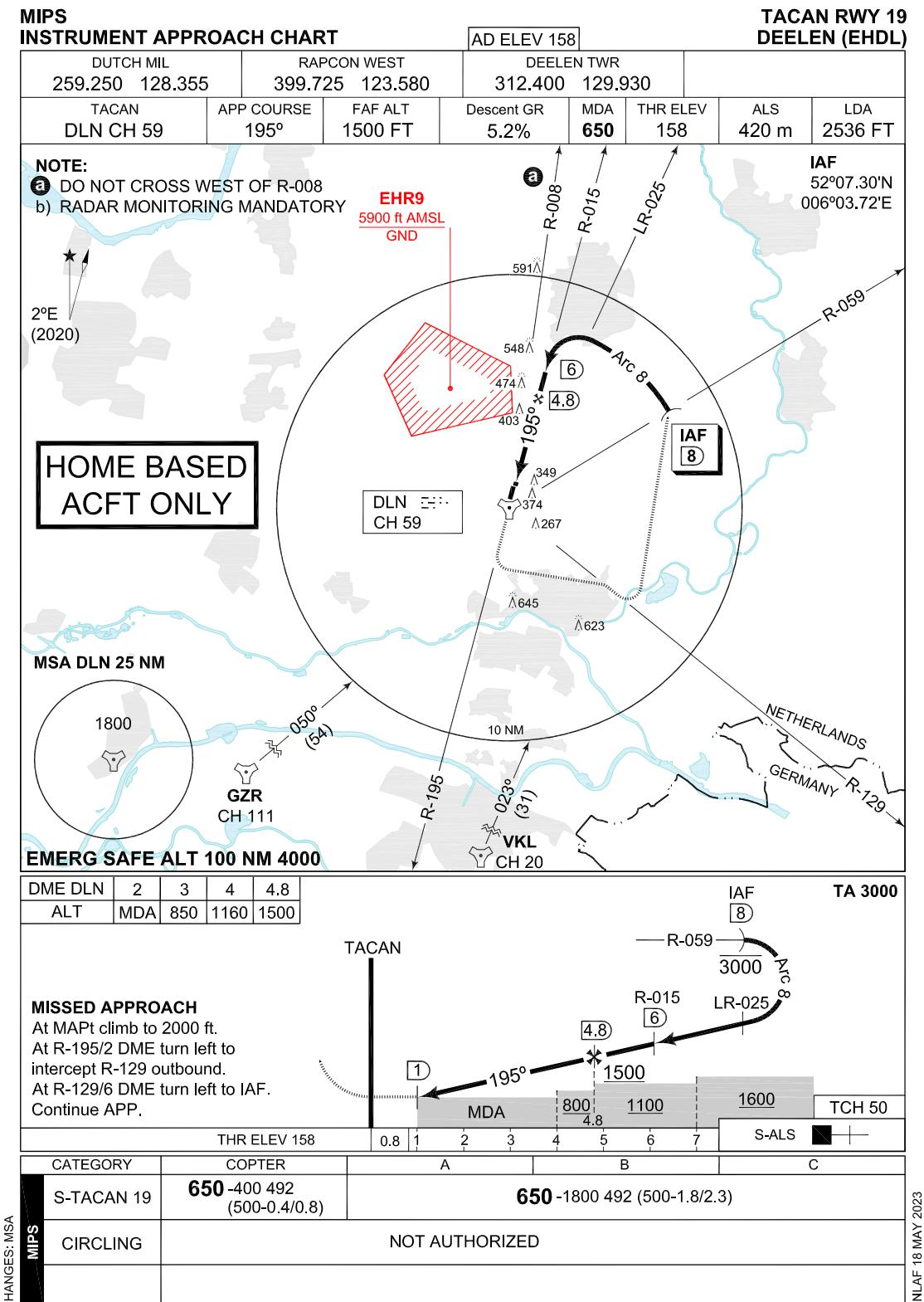
| Terlet-2 | Terlet-3 |
|---|--|
| 52°03'41.40"N 005°53'53.77"E; 52°10'20.78"N 006°00'46.09"E; 52°08'12.82"N 005°59'42.21 "E; along clockwise arc (radius 6.5 NM, centre 52°03'35.02"N 005°52'18.97"E) to 51°57'12.08"N 005°54'14.21"E; 51°55'03.92"N 005°53'10.91"E; to point of origin. vertical limits; 925 ft AMSL- 3000 ft AMSL | 52°10'53,01"N 005°57'54.56"E; 52°10'20.78"N 006°00'46.06"E; 52°08'12.82"N 005°59'42.21"E; along clockwise arc (radius 6.5 NM, centre 52°03'35.02"N 005°52'18.97"E;) to 51°57'12.08"N 005°54'14.21"E; 51°55'03.92"N 005°53'10.91"E; 51°55'45.67"N 005°49'29.94"E; to point of origin. vertical limits; 925 ft AMSL- 3000 ft AMSL |

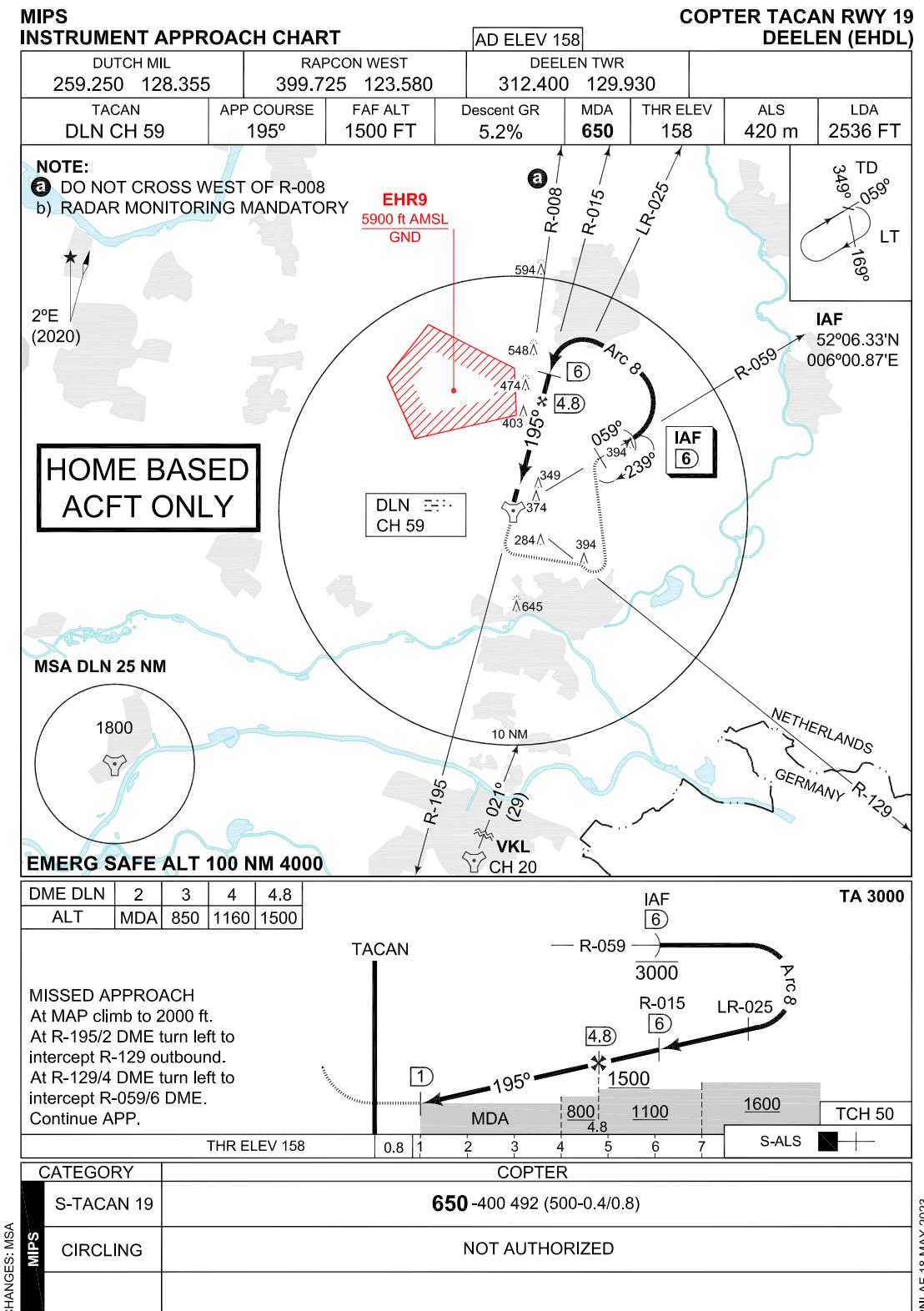












INTENTIONALLY LEFT BLANK

PART 3 – AERODROMES (AD)

AD 2.

AD 2. AERODROMES DE PEEL

DE PEEL

EHDP AD 2.1 Aerodrome location indicator and name

EHDP - De Peel

EHDP AD 2.2 Geographical and administrative data

| | | |
|---|--|--|
| 1 | ARP | 513102.2N0055120.3E |
| 2 | Direction and distance from city | 077° MAG/ 7.5 NM HELMOND |
| 3 | Elevation/Reference temperature | + 98 ft AMSL / Not available |
| 4 | MAG VAR/Annual change | 1°07'E (JAN 2015)/8'E |
| 5 | AD operating authority Postal address/Visitors' address Telephone Telefax AFTN | RNLAF Groep Geleide Wapens De Peel MPC 88A Ripseweg 1 5816 AC VREDEPEEL +31(0)493 598911 +31(0)493 598910 Nil |
| 6 | Types of TFC permitted (IFR/VFR) | Nil |
| 7 | Remarks | Nil |

EHDP AD 2.3 Operational hours

| | | |
|---|-----------|-----------|
| 1 | AD OPR HR | AD closed |
|---|-----------|-----------|

EHDP AD 2.17 Air traffic services airspace

| | | |
|---|---------------------------------------|--|
| 1 | Designation and lateral limits | De Peel control zone 51°37'09.82"N 005°54'46.89"E; along clockwise arc (radius 6.5 NM, centre 51°31'02.20"N 005°51'20.30"E) to 51°24'49.79"N 005°54'23.09"E; 51°19'23.04"N 005°26'17.58"E; along anti-clockwise arc (radius 8 NM, centre 51°27'00.48"N 005°22'28.25"E) to 51°21'21.33"N 005°31'29.98"E; 51°33'45.27"N 005°51'29.87"E; along anti-clockwise arc (radius 8 NM, centre 51°39'25.95"N 005°42'28.17"E) to point of origin. |
| 2 | Vertical limits | GND to 3000ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | ATC in De Peel CTR is provided by Eindhoven TWR and Volkel TWR. For crossing clearance of De Peel CTR adjacent to Eindhoven CTR contact Eindhoven TWR. For crossing clearance of De Peel CTR adjacent to Volkel CTR contact Volkel TWR. English Outside HO DUTCH MIL INFO FREQ 132.350 MHZ. |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

INTENTIONALLY LEFT BLANK

PART 3 – AERODROMES (AD)

AD 2.

AD 2. AERODROMES EINDHOVEN

EINDHOVEN

EHEH AD 2.1 Aerodrome location indicator and name

EHEH - Eindhoven

EHEH AD 2.2 Geographical and administrative data

| | | |
|---|---|--|
| 1 | ARP | 51°27'00.48"N 005°22'28.25"E |
| 2 | Direction and distance from city | 281° MAG/4 NM EINDHOVEN |
| 3 | Elevation/Reference temperature | +74 ft AMSL/22.3o C (JUL) |
| 4 | MAG VAR/Annual change | 1°50'E (JAN 2020)/11'E |
| 5 | AD operating authority Postal address Visitors' address Telephone Telefax AFTN | RNLAF Vliegbasis Eindhoven MPC 87A P.O. Box 8762 4820 BB Breda Flight Forum 1550 5657 EZ Eindhoven +31(0)40 2896911 +31(0)40 2896466 EHEHZTZX |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHEH AD 2.3 Operational hours

| | | |
|----|----------------------------|---|
| 1 | AD OPR HR | MON/FRI 0600/2200 (0500/2100) |
| 2 | Customs and immigration | 30 MIN PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | See 2.23 |
| 5 | ATS Reporting Office (ARO) | See 2.23 |
| 6 | MET Briefing Office | HO |
| 7 | ATS | MIL and CIV HO |
| 8 | Fuelling | HO |
| 9 | Handling | HO |
| 10 | Security | HO |
| 11 | De-icing | HO |
| 12 | Remarks | For CIV OPR HRS see AIP Netherlands EHEH AD 2.3 |

EHEH AD 2.4 Handling services and facilities

| | | |
|---|--------------------------------|---|
| 1 | Cargo-handling facilities | Yes |
| 2 | Fuel/oil types | F-34, H-515, O-147, O-148, O-156 |
| 3 | Fuelling facilities/capacity | No limitations |
| 4 | Oxygen | No |
| 5 | De-icing facilities/type | S-742 |
| 6 | Starting units | DSA 150, DSA 600, DSA 900, JAS, DC 3500 |
| 7 | Hangar space for visiting ACFT | O/R |
| 8 | Repair facilities | C130 |
| 9 | Remarks | No X-servicing for armed ACFT |

EHEH AD 2.5 Passenger facilities

| | | |
|---|--------------------|---|
| 1 | Remain overnight | AVBL O/R |
| 2 | Medical facilities | First Aid treatment and first responders on site. Hospitals in Eindhoven (8km) |
| 3 | Remarks | Nil |

EHEH AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|-------------------------------------|
| 1 | AD category for fire fighting | Fire NATO CAT 8 higher O/R 48 HR PN |
| 2 | Remarks | Nil |

EHEH AD 2.7 Seasonal availability - clearing

| | | |
|---|------------------------|---|
| 1 | Seasonal availability | All seasons |
| 2 | Snow removal equipment | Yes |
| 3 | Remarks | Caution advised in winter during ice conditions |

EHEH AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|--|
| 1 | Apron surface and strength | West:Concrete, PCN 61 R/B/W/T East:Concrete, PCN 61 R/B/W/T |
| 2 | TWY width, surface and strength | Width minimal 54 ft, concrete, PCN 61 R/B/W/T |
| 3 | Remarks | TWY R6: PCN 52 R/B/W/T |

EHEH AD 2.9 Surface movement guidance and control system and markings

| | | |
|---|-----------------------|-------------------------|
| | According STANAG 3158 | |
| 1 | Remarks | 'Follow-me' car is AVBL |

EHEH AD 2.10 Aerodrome obstacles

| |
|---------------------|
| See Aerodrome Chart |
|---------------------|

EHEH AD 2.11 Meteorological information provided

| | | |
|---|--|---|
| 1 | Associated MET Office | Eindhoven |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 30 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHEH 040-2896483 or mail EHV.METEO@mindef.nl Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHEH AD 2.12 Runway physical characteristics

| | | |
|---|----------------|------------------------------------|
| 1 | RWY dimensions | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac |
| 3 | RWY strength | PCN 62 F/A/W/T |

EHEH AD 2.13 Declared distances

| |
|------------------------------------|
| See Aerodrome Chart. Values in ft. |
|------------------------------------|

EHEH AD 2.14 Approach and runway lighting

| According STANAG 3316 | | |
|-----------------------|-------------------|--|
| 1 | Approach lighting | RWY 21: CAT I. 869 m RWY 03: CAT I. 892 m |
| 2 | RWY lighting | RWY 03/21 VCL/VHI |
| 3 | PAPI | Situated on the left side of both RWYs |
| 4 | Remarks | Nil |

EHEH AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|---------------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | VB |
| 3 | Emergency RWY lighting | Nil |
| 4 | Emergency TWY edge lighting | Retroreflective markers |
| 5 | Secondary power supply/switch-over | AVBL switch over time within 1 second |
| 6 | Remarks | Nil |

EHEH AD 2.16 Helicopter landing area

| | | |
|---|----------|---------------------|
| 1 | Location | See Aerodrome Chart |
| 2 | Marking | Daylight marking |
| 3 | Lighting | No |
| 4 | Remarks | Nil |

EHEH AD 2.17 Air traffic services airspace

| | | |
|---|---------------------------------------|---|
| 1 | Designation and lateral limits | EINDHOVEN CTR 51°38'52.86"N 005°23'22.88"E; 51°27'33.73"N 005°41'28.57"E; 51°21'21.33"N 005°31'29.98"E; along clockwise arc (radius 8 NM, centre 51°27'00.48"N 005°22'28.25"E) to 51°32'38.93"N 005°13'24.29"E; to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Eindhoven TWR, outside HO Dutch Mil Info FREQ 132.350 MHz. English |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHEH AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|---|-------|---------------------------------|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Eindhoven Tower | 131.005*)**) 122.100 241.550*) 257.800 | HO | *)Primary FREQ **)VDF |
| GND CTL | Eindhoven Ground | 335.750 121.930 | HO | |
| APP | RAPCON South | 123.180*) 122.100 388.525*) | HO | Radar equipped |
| RADAR | Eindhoven Arrival | 124.530**) 122.100 265.975 | HO | Through APP |
| ATIS | | 126.030 | | Coverage 60 NM/20000 ft |

EHEH AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|---------------------|-----|------------------|-------|---------------------------------|--------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| TACAN | EHV | CH 119X | H24 | 51°26'53.39"N 005°22'29.78"E | 150 NM/60000 ft | FREQ protected |
| ILS 03 LOCALIZER | EHZ | 109.750 | H24 | 51°27'45.01"N 005°23'18.19"E | | 033° MAG 0.23 NM from the THR RWY 21 |
| GLIDEPATH | | 333.050 | H24 | 51°26'34.18"N 005°22'06.36"E | | 0.20 NM past THR RWY 03 |
| DME 03 | EHZ | CH 34Y | H24 | 51°26'34.18"N 005°22'06.36"E | | Situated on Glide- path 03. One direc- tion only. |
| ILS 21 LOCALIZER | EHO | 109.750 | H24 | 51°26'15.09"N 005°21'37.39"E | | 213° MAG 0.25 NM from the THR RWY 03 |
| GLIDEPATH | | 333.050 | H24 | 51°27'22.30"N 005°23'01.56"E | | 0.19 NM past THR RWY 21 |
| DME 21 | EHO | CH 34Y | H24 | 51°27'22.30"N 005°23'01.56"E | | Situated on Glide- path 21. One direc- tion only. |

EHEH AD 2.20 Local traffic regulations

START UP PROCEDURES

For pushback and start-up permission contact Eindhoven Ground 121.930 this request shall include Person On Board and parking position.

TAXI PROCEDURES

Eindhoven Ground is operational during aerodrome operational hours. On taxiway no turns larger than 90° allowed. ATC may assign an intersection take-off to any aircraft for operational reasons. During low visibility procedures (visibility < 1500 m and cloudbase < 200 ft) limited use of intersection take-offs are allowed.

EHEH AD 2.21 Noise abatement procedures

RWY 03: Climb on RWY track until 4 DME and at least 1000 ft.

RWY 21: Climb on RWY track until 3 DME and at least 1000 ft.

Instrument approaches mandatory, light ACFT exempted.

EHEH AD 2.22 Flight procedures

IFR procedures

The IAP and SID procedures are established in accordance with STANAG 3759 and AATCP-1.

NOTE: Exercise caution when intercepting the glide slope from above as this increases the risk of false glide slope capture

RNP Z approach RWY 03

| Serial number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA (°TCH(ft)) | NAV Spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | TILVU | | | | | | +2000 | | | RNAV1 |
| 002 | TF | RUSAL | | 170/(171.9) | | 8.3 | | | | | RNAV1 |
| 003 | TF | ERSUL | | 124/(126.0) | | 5.0 | | +2000 | -220 | | RNAV1 |
| 004 | IF | MITSA | | | | | | +2000 | | | RNAV1 |
| 005 | TF | ERSUL | | 302/(303.8) | | 5.0 | | +2000 | -220 | | RNAV1 |
| 006 | IF | ERSUL | | | | | | +2000 | -220 | | RNAV1 |
| 007 | TF | EH573 | | 033/(034.9) | | 2.1 | | +2000 | | | RNP APCH |
| 008 | TF | THR03 | Y | 033/(034.9) | | 5.9 | | | | -3.00/50 | RNP APCH |
| 009 | TF | EH550 | Y | 033/(035.0) | | 4.6 | | | | | RNP APCH |
| 010 | DF | EHOJI | | | | | L | @3000 | | | |

FAS data block- RNP Z RWY 03

| Input data | |
|-------------------------------------|----------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHEH |
| Runway | 03 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Z |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E03A |
| LTP/FTP Latitude | 512627.1400 N |
| LTP/FTP Longitude | 0052150.900 E |
| LTP/FTP Ellipsoidal Height (metres) | 66.6 |
| FPAP Latitude | 512740.2215 N |
| Delta FPAP latitude (seconds) | 73.0815 |
| FPAP longitude | 0052312.8100 E |
| Delta FPAP Longitude (seconds) | 81.9100 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.00 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 08 05 08 05 03 D0 00 01 33 30 05 88 76 13 16 68 52 4D 02 9A 16 F3 3A 02 EC 7F 02 F4 01 2C 01 64 00 C8 AF D6 A5 BA 99 |
| Calculated CRC Value | D6A5BA99 |
| Supplied CRC Value | D6A5BA99 |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|------|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 22.3 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

RNP Z approach RWY 21

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA (°TCH(ft)) | NAV spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | BESTI | | | | | | +2000 | | | RNAV1 |
| 002 | TF | GILIV | | 123/(124.2) | | 5.0 | | +2000 | | | RNAV1 |
| 003 | IF | GEMTI | | | | | | +2000 | | | RNAV1 |
| 004 | TF | GILIV | | 304/(306.1) | | 5.0 | | +2000 | | | RNAV1 |
| 005 | IF | GILIV | | | | | | +2000 | | | RNAV1 |
| 006 | TF | EH567 | | 213/(215.1) | | 4.1 | | +2000 | | | RNP APCH |
| 007 | TF | THR21 | Y | 213/(215.1) | | 5.9 | | | | -3.00/50 | RNP APCH |
| 008 | TF | EH558 | Y | 213/(215.1) | | 3.8 | | | | | RNP APCH |
| 009 | DF | EHOJI | | | | | R | @3000 | | | |

RNP Z RWY 21

| | |
|-------------------------------------|----------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHEH |
| Runway | 21 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Z |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E21A |
| LTP/FTP Latitude | 512733.7900 N |
| LTP/FTP Longitude | 0052305.6000 E |
| LTP/FTP Ellipsoidal Height (metres) | 64.5 |
| FPAP Latitude | 512620.6850 N |
| Delta FPAP latitude (seconds) | -73.1050 |
| FPAP longitude | 0052143.6855 E |
| Delta FPAP Longitude (seconds) | -81.9145 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.00 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 08 05 08 05 15 D0 00 01 31 32 05 3C 7F 15 16 00 9A 4F 02 85 16 DE C4 FD 0B 80 FD F4 01 2C 01 64 00 C8 AF 3E 0B 00 1D |
| Calculated CRC Value | 3E0B001D |
| Supplied CRC Value | 3E0B001D |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|------|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 20.3 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

VFR procedures

Arrival, departure and crossing VFR flights shall be carried out via the arrival/departure routes unless otherwise instructed by ATC or approved on pilots request.

CONVENTIONAL ACFT:

AD control is to be called 15 MIN prior LDG and ACFT have to join the circuit under a 90° angle to the ordered down wind.

HEL:

Approach and departure procedures to be carried out from north-west. When approaching from/departing to north-west HEL may cross RWY 03/21 after R/T permission has been obtained. In order to avoid built-up areas, sector 060/120 is prohibited.

REPORTING POINTS:

| | |
|----------|------------------------|
| Echo: | 51°24'24"N 005°33'40"E |
| Hotel: | 51°28'45"N 005°19'16"E |
| Mike: | 51°26'12"N 005°25'34"E |
| Oscar: | 51°29'59"N 005°17'23"E |
| Tango: | 51°34'20"N 005°17'00"E |
| Victor: | 51°24'18"N 005°25'53"E |
| Whiskey: | 51°30'00"N 005°11'42"E |
| X-Ray: | 51°20'35"N 005°25'14"E |
| Zulu: | 51°18'59"N 005°27'09"E |

CIRCUIT HEIGHTS:

| | |
|--------------------|---------|
| Conventional ACFT: | 1500 ft |
| Light ACFT: | 1000 ft |
| HEL: | 600 ft |

NOTE: R/H circuit on RWY 21

LOW VISIBILITY PROCEDURES

During periods of low visibility the overall ATC capacity is reduced. To guarantee aircraft safety an optimal use of ATC capacity, Eindhoven Airport uses low visibility procedures. When the visibility ≤ 1500 m and/or cloud base ≤ 300 ft cautionary measures are taken and the following low visibility procedures will be initiated.

Four low visibility phases are recognised:

| Phase | Conditions | Procedure |
|-------|---|--|
| A | RVR ¹ ≤ 1500 m and/or ceiling ≤ 300 ft | Limited use of intersection take-offs.; All WIP on airside will be terminated. No conditional clearances |
| B | RVR < 1100 m and/or ceiling < 200 ft | Separation BTN landing acft will be increased to 8 Nm |
| C | RVR < 550 m | Tfc will be reduced to "one movement a time" |
| D | RVR < 300 m | The airport is below operational minima for arriving and departing aircraft |

NOTE: ¹ RVR of the runway in use is mandatory

NOTE: During low visibility procedures taxi instructions to cross the runway and use taxiway Romeo will be provided on the EHEH TWR frequency

EHEH AD 2.23 Additional information

GENERAL

Approach control through Rapcon South. ILS approaches for RWY 03/21 from 2000 ft. RVR AVBL for RWY 03/21¹.

AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.

Tel: +31(0)20 4062840
 Tel: +31(0)20 4062841
 E-mail: aocs.fdno@mindef.nl
 AFTN: EHMCZPZX

AVBL H24

PPR 24 HRS: for Prior Permission Request contact Mission Support
 Tel: +31(0)40 2896837
 Fax: +31(0)40 2896815
 E-mail: amc.occ@mindef.nl

CIV training flights prohibited except for home-based ACFT.
 No X-servicing for armed ACFT.

- 1) Aircraft crossing the runway could cause interference to the ILS signal that may result in significant ILS signal deviations.

BIRD STATUS

- (1) In accordance with CLSK IS OPS 0008 5.4 Vogelstatus, a bird migration warning (birdtam) will be issued and published in OMIS;
- (2) In case of a bird strike risk intensity of 5 or higher TWR will inform RAPCON South;
- (3) The Bird Control Unit (BCU) will issue a local bird strike warning. Outside UDP or in case of absence of a certified BCU the local bird strike warning will be at least 'alert';

- (4) In case of a local bird strike warning 'critical' the BCU shall advise TWR on the safest pattern to fly. ATIS (126.030) will inform aircrew with the text 'high bird intensity' and TWR will inform military traffic;
- (5) The local bird strike warning is equal to or higher than the national bird migration warning.

LOCAL NATIONAL RESTRICTIONS

| | |
|-----------------|---|
| NORMAL | less than 5 None |
| ALERT | 5 or 6 None, however be aware of increased bird intensity |
| CRITICAL | Full stop landing mandatory No touch-and-go or low approaches No formation take offs and landings |

PROCEDURES

CONVENTIONAL AIRCRAFT

Conventional aircraft will join the circuit in accordance with instructions given by TWR, depending on their position and other traffic in the circuit;
Standard circuit altitude is 1500 ft;

For an overhead circuit, conventional aircraft are to enter the CTR to initial point (IP) at 1500 ft;

IP runway 03 is situated 4NM final;

For runway 03 a left-hand overhead circuit will be flown around the village of Wintelre;
IP runway 21 is situated 5NM final;

For runway 21 a right-hand overhead circuit will be flown inside the village of Best;
C130 aircraft will descend to 1000 ft from IP to the overhead break.

FIGHTER JETS

For an overhead circuit, fighter jet aircraft are to enter the CTR to initial point (IP) at 1500 ft;

IP runway 03 is situated 4NM final;

For runway 03 a left-hand overhead circuit will be flown around the village of Wintelre;
IP runway 21 is situated 5NM final;

For runway 21 a right-hand overhead circuit will be flown inside the village of Best;
Overhead circuit will be flown at 1500 ft;

Approaching from the southeast, a right turn for IP runway 03 or a left turn for IP runway 21 can be allowed by TWR;

Slow lane will be issued by TWR together with the landing clearance.

CIRCUIT PROCEDURES

GENERAL

Non home-based aircraft are limited to a maximum of 2 approaches per flight (Excluded are NL Coast Guard aircraft, RNLAF and KLPD helicopters);

Practice approaches are allowed on Monday till Thursday from 06:00Z - 20:00Z (07:00Z- 21:00Z) and on Friday from 06:00Z - 15:00Z (07:00Z - 16:00Z).

Practice approaches are not allowed during weekends and/or public holidays;

Practice approaches only after permission of ATC and depending on traffic.

CONVENTIONAL AIRCRAFT

The visual circuit will be flown on the northwest side of the airfield around the villages of Wintelre and Best;

Standard circuit altitude is 1500 ft.

FIGHTER JETS

For runway 03 close circuit will be flown inside the village of Best, with a base leg outside the village of Wintelre;

For runway 21 a close circuit will be flown at least 1000 ft around the village of Wintelre, with a base leg inside the village of Best;

Standard circuit altitude is 1500 ft;

Returning initial runway 03 via at least 4NM runway track followed by a left turn to initial;

Returning initial runway 21 via at least 3NM runway track followed by a right turn to initial;

VFR (S)FO patterns in accordance with SOPs.

HELICOPTERS

Standard circuit altitude is 600 ft;

Circuit runway 03 is left-hand;

Circuit runway 21 is right-hand;

The village of Wintelre has to be avoided;

Only one helicopter is allowed in the circuit;

Circuits are allowed for runway 03/21 only;

The following types of approached may be executed:

- Normal landing;
- Roll on landing (simulated single engine);
- Pedal less landing (fixed pitch landing);
- Autorotations;
- Quick stops.



RADAR PATTERNS

Eindhoven runway 21:

Right-hand pattern. Downwind at 2000 ft. Baseleg at 2000 ft. Final according glideslope.

Eindhoven runway 03:

Left-hand pattern. Downwind at 2000 ft. Baseleg at 2000 ft. Final according glideslope.

BREAK-OFF PROCEDURES.

On final approach. Continue inbound or runway track and make altitude 2000 ft.

Break-off can be initiated by both TWR and Radar. Immediate coordination between TWR and Radar will take place to fit break-off traffic in the situation.

LOST COMMUNICATION PROCEDURE.

When no transmissions are received for 1 minute in the pattern or 10 seconds on ASR final, proceed to the Final Approach Fix at published altitude for a TACAN / ILS straight in or continue on TACAN / ILS straight-in and try to contact Eindhoven Arrival or TWR on standard or emergency frequency.

In case of an inbound GAT non comms it is possible for the pilot to contact MilATCC Schiphol by SATCOM or mobile phone. Check the procedure in the emergency checklist at section A 04-03 COMMS FAIL. The Arrival controller will contact TWR controller for landing clearance.

EMERGENCY FUEL PATTERN

(Simulated) Emergency fuel patterns are flown at 1100 ft. In the same direction as the normal radar pattern. (Simulated) Emergency fuel patterns are made as short as possible aiming for approximately 4 NM final. Simulated Emergency fuel patterns are subject to approval by TWR.

ICING PROCEDURES.

Descent during Emergency Operating Procedures

To remain in the icing layer as short as possible a 15° descent is used till 1000 ft AGL. For a 15° descent 0.6 NM is needed per 1000 ft. The aircraft should arrive at 7 DME (4 NM before glide path intercept) at 1000 ft AGL.

NOTE: During expected icing conditions, all missions will execute an Ice Fod Alert (IFA) check.

NOTE: When aircraft is below icing level, ATC will order pilot to reduce to normal approach speed in order to maintain an orderly traffic flow.

AIRCRAFT WITH HAZARDOUS CARGO

Aircraft with hazardous cargo will be parked at the hot cargo platform situated at intersection L5 southeast side. IPCC will inform ATC as well as the fire department about the cargo.

DRAG CHUTE/CABLE PROCEDURES

Aircrew shall inform TWR as soon as possible;

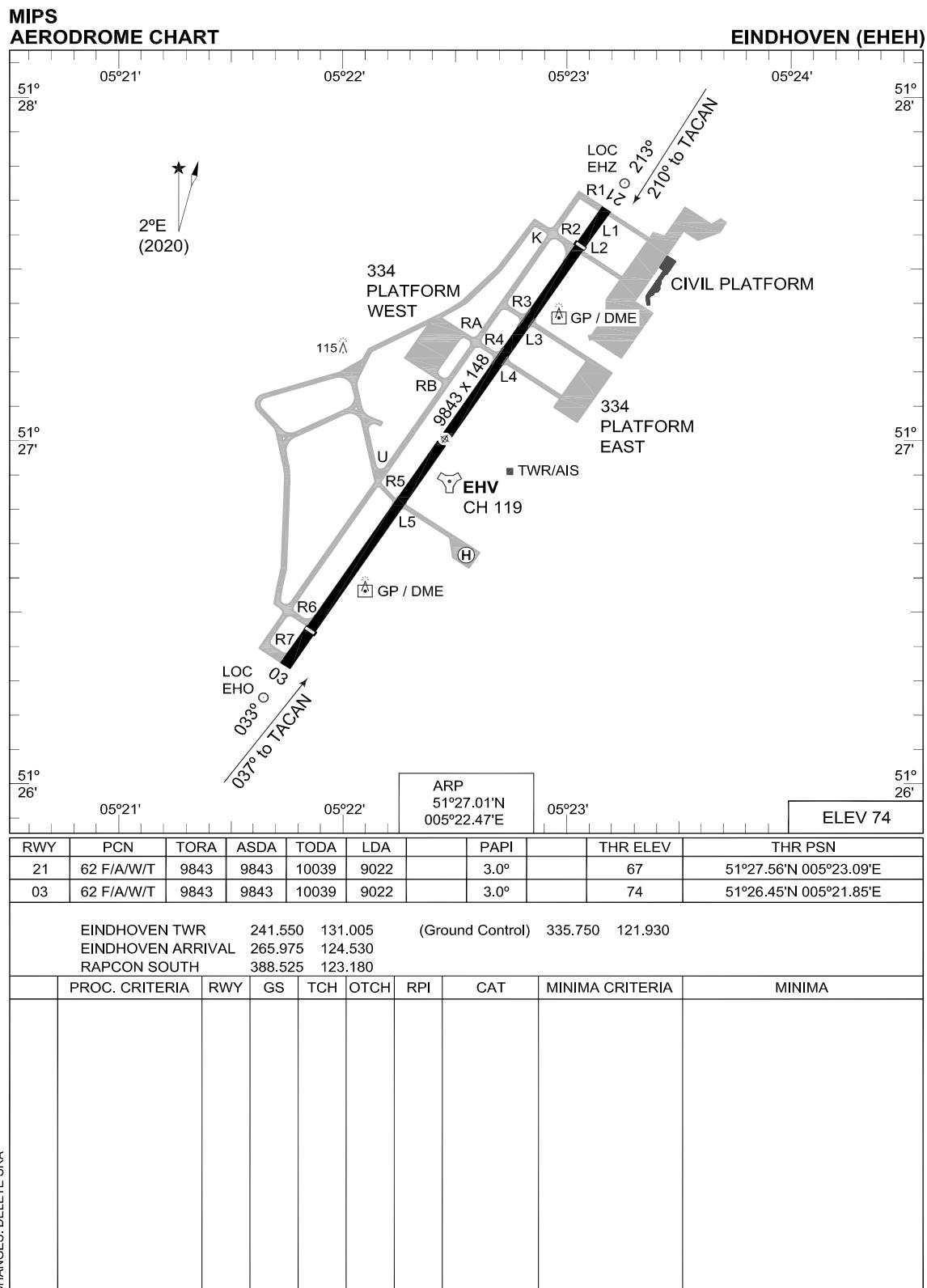
Release of the deployed drag chute shall be on the taxi way Romeo. To facilitate a swift and safe removal, drop the drag chute close to the edge of the taxiway;

If unable to release inform TWR and await instructions. On the taxiway release the deployed drag chute when convenient, but as close to the taxiway edge as practicable;

The recovery vehicle shall remove the drag chute from the runway as soon as possible.

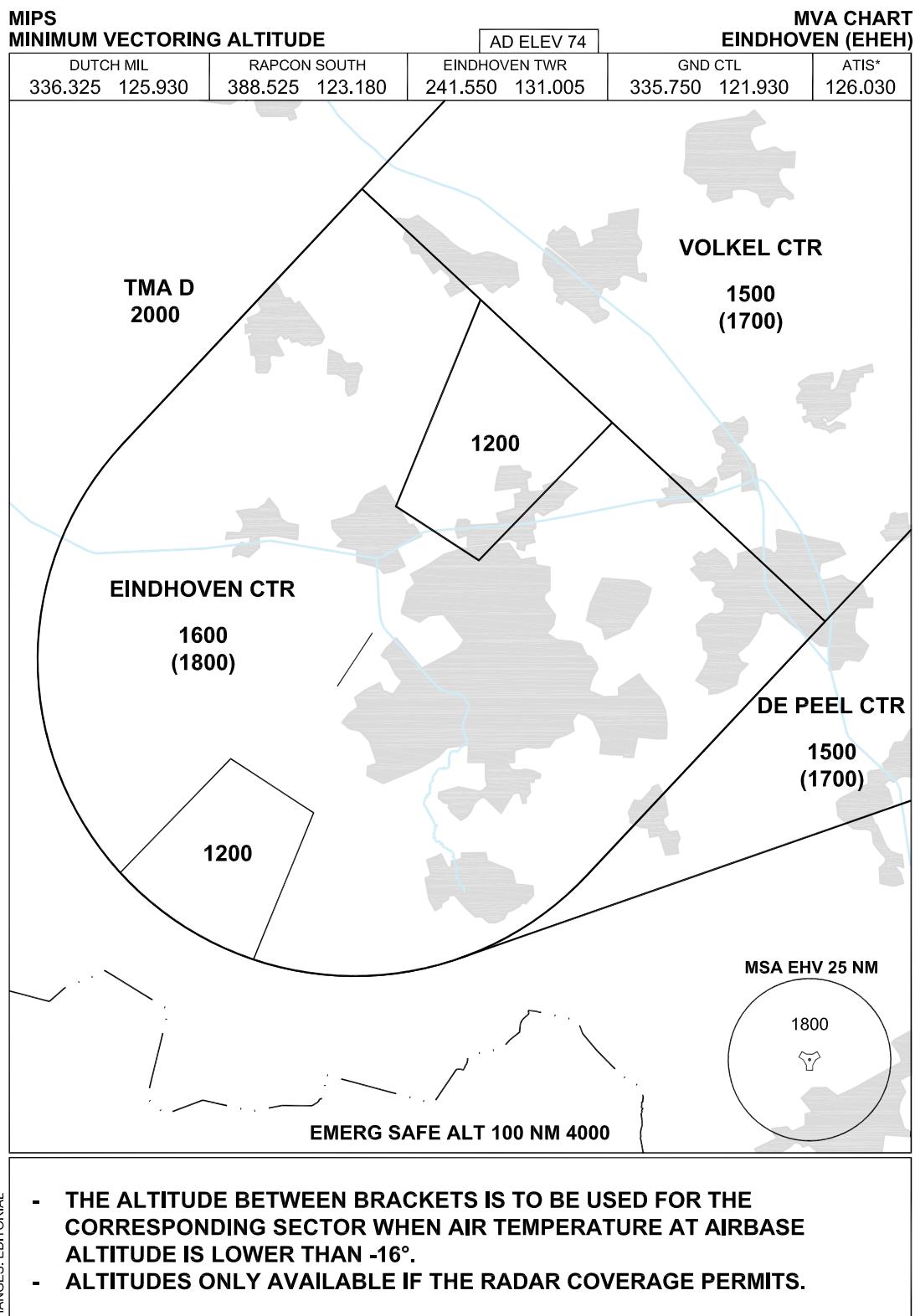
EHEH AD 2.24 Charts related to an aerodrome

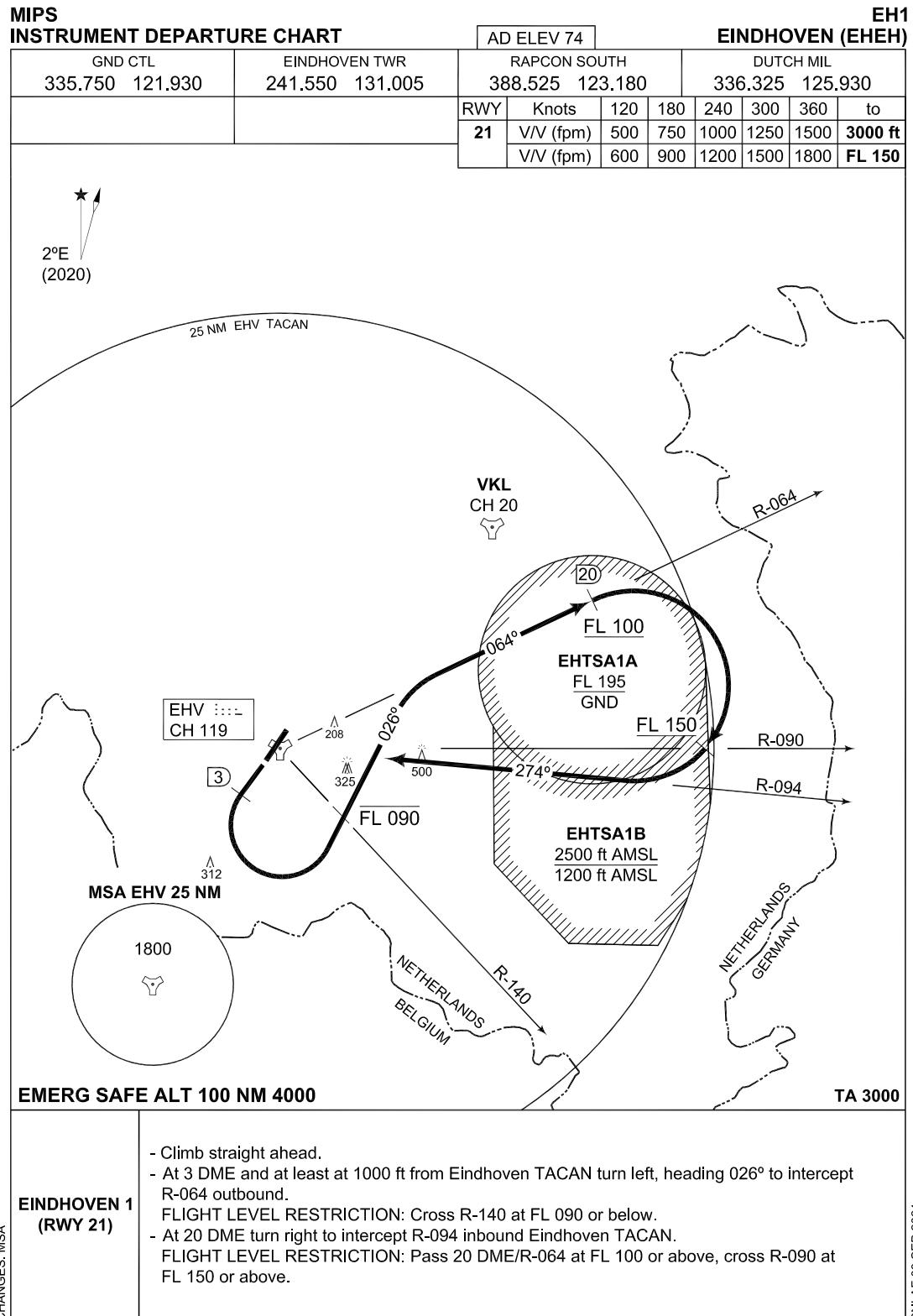
| | |
|--|--------------|
| Aerodrome Chart | EHEH AD 2-15 |
| Local map | EHEH AD 2-16 |
| MVA chart | EHEH AD 2-17 |
| Instrument departure chart EH1 | EHEH AD 2-18 |
| Instrument departure chart EH3 | EHEH AD 2-19 |
| Instrument departure chart EH5 | EHEH AD 2-20 |
| Instrument departure chart EH7 | EHEH AD 2-21 |
| Instrument approach chart HI-ILS or LOC RWY 03 | EHEH AD 2-22 |
| Instrument approach chart ILS Z or LOC RWY 03 | EHEH AD 2-23 |
| Instrument approach chart HI-TACAN RWY 03 | EHEH AD 2-24 |
| Instrument approach chart TACAN RWY 03 | EHEH AD 2-25 |
| Instrument approach chart RNP Z RWY 03 | EHEH AD 2-26 |
| Instrument approach chart HI-ILS or LOC RWY 21 | EHEH AD 2-27 |
| Instrument approach chart ILS Z or LOC RWY 21 | EHEH AD 2-28 |
| Instrument approach chart HI-TACAN RWY 21 | EHEH AD 2-29 |
| Instrument approach chart TACAN RWY 21 | EHEH AD 2-30 |
| Instrument approach chart RNP Z RWY 21 | EHEH AD 2-31 |

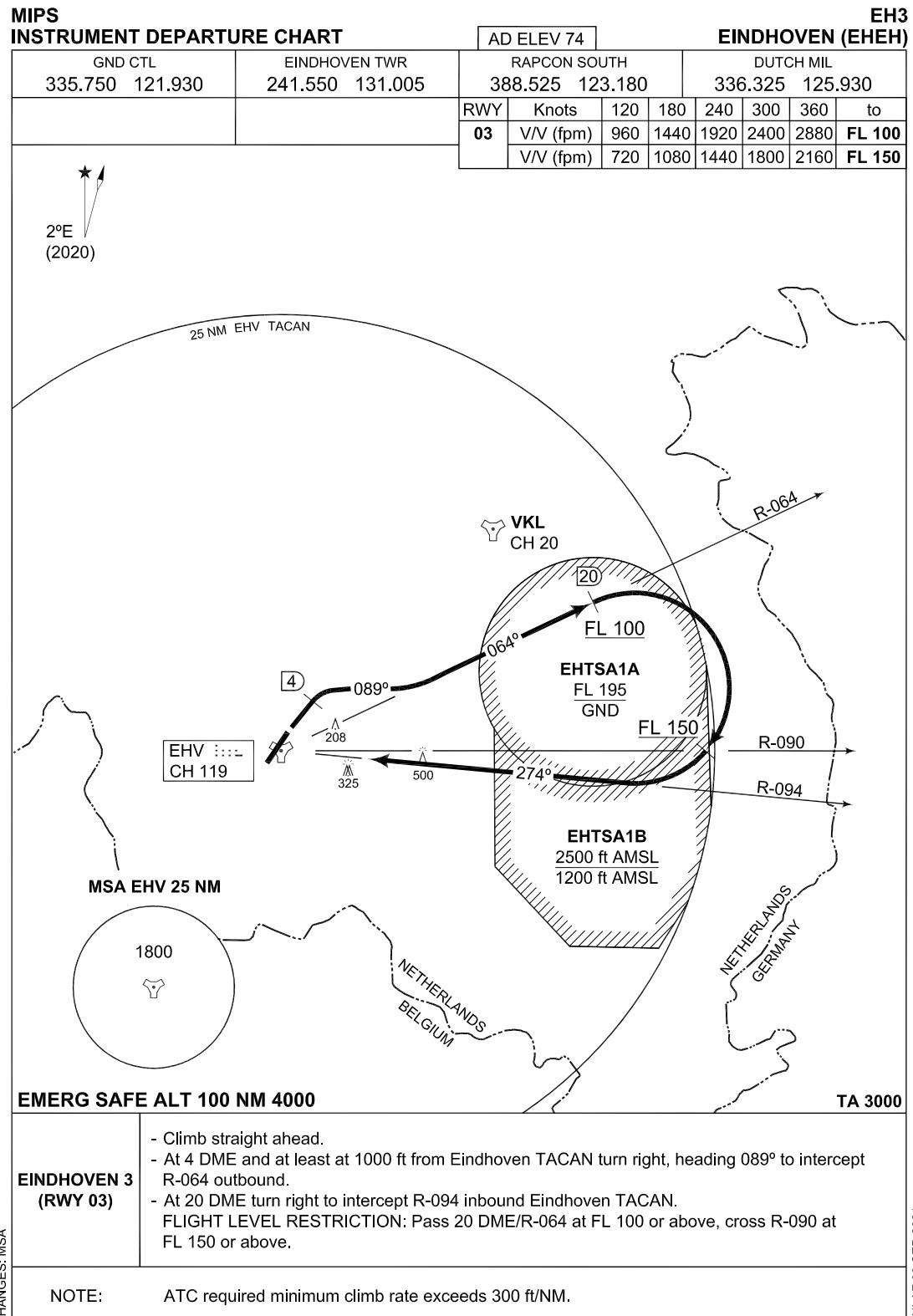


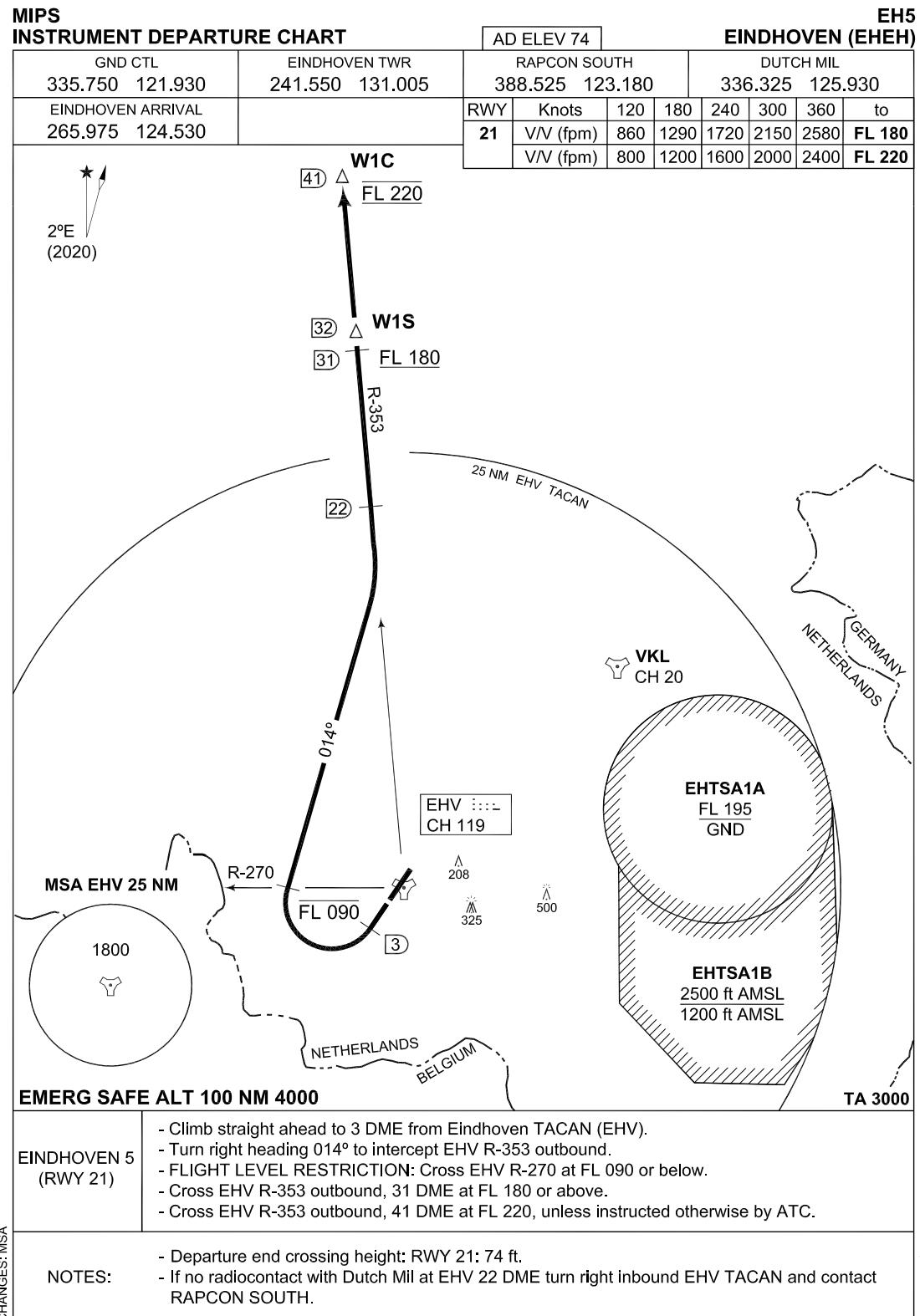
LOCAL MAP

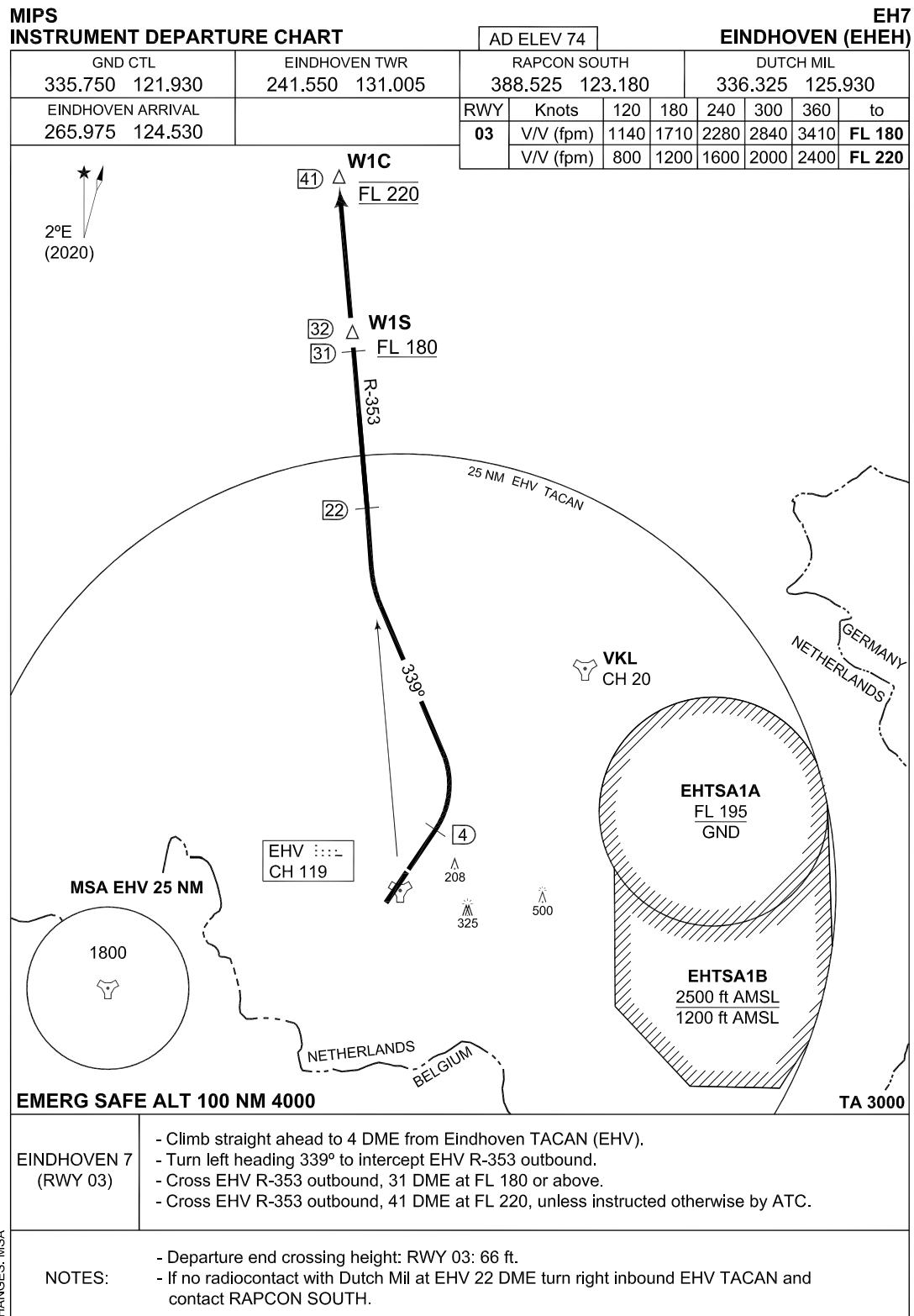
See: AIP NL EH-AD-2 EHEH-VAC-1





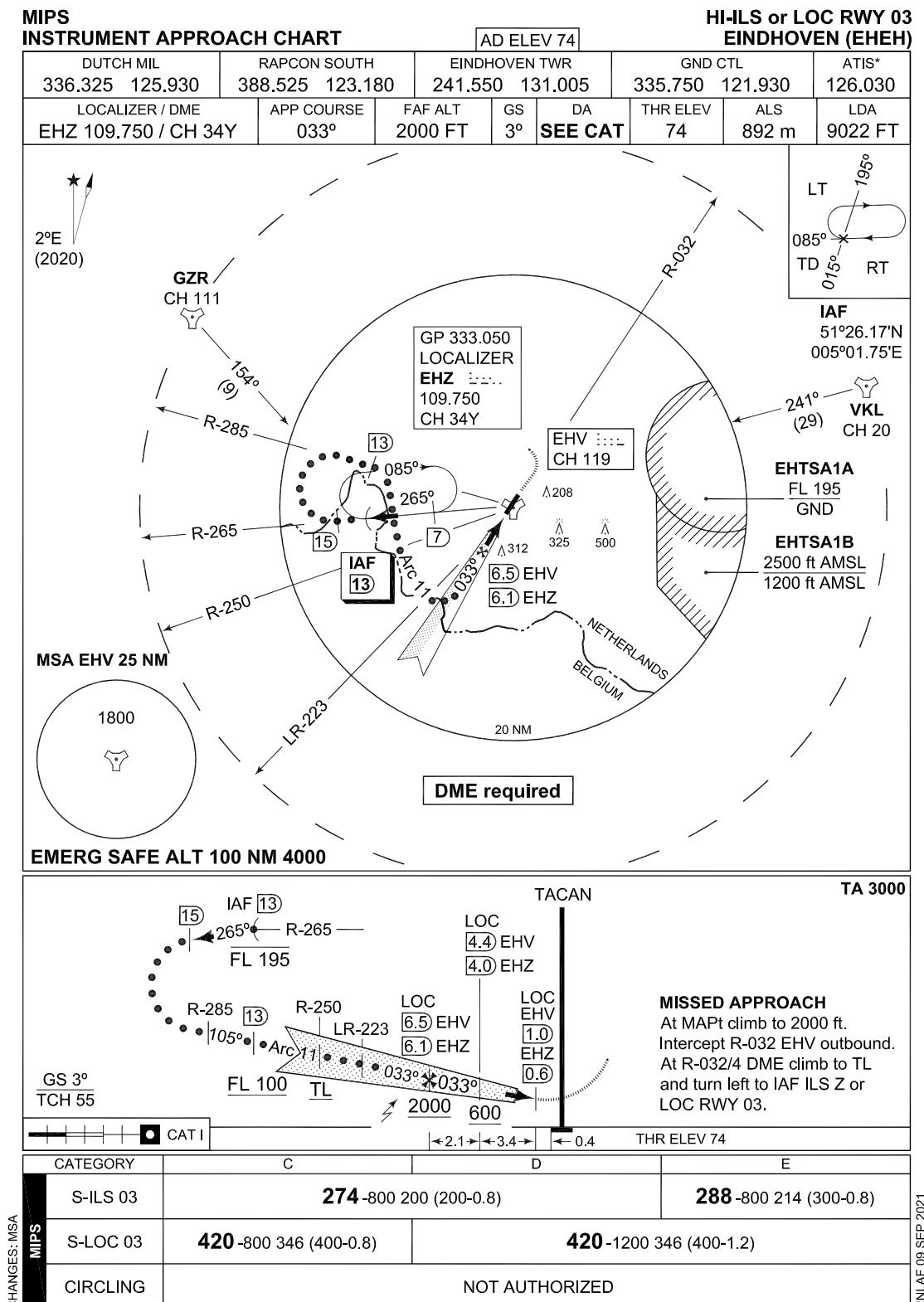


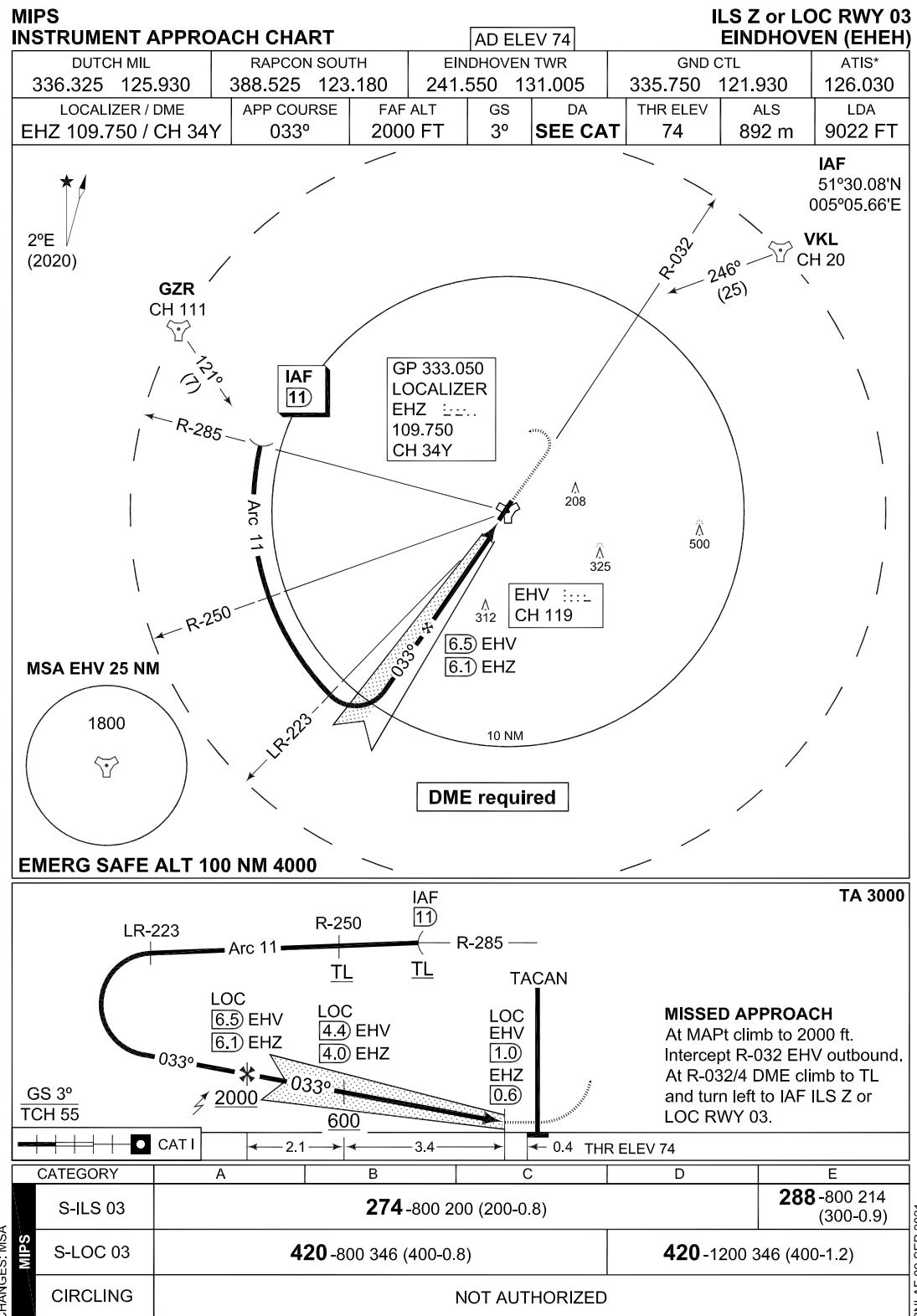


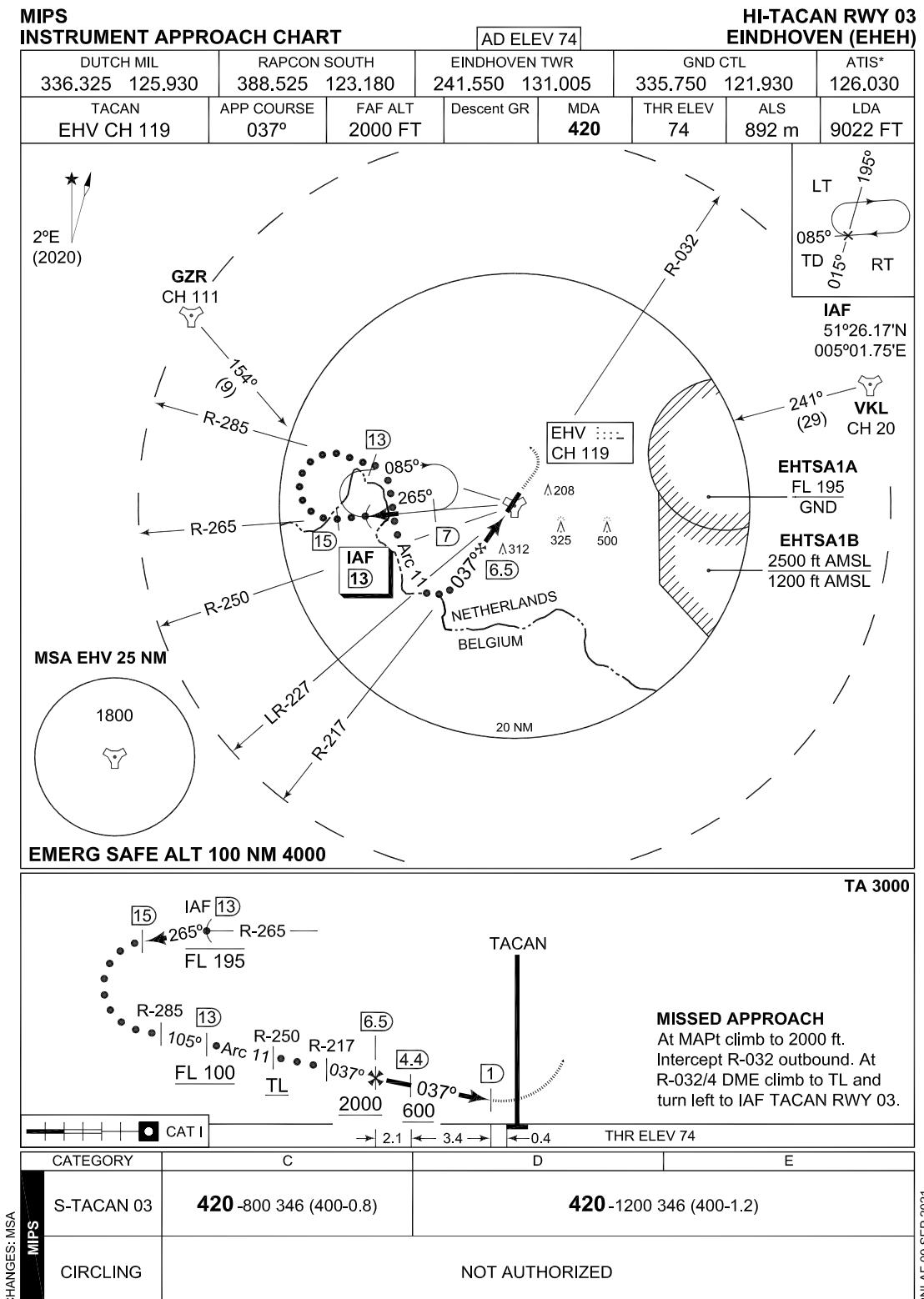


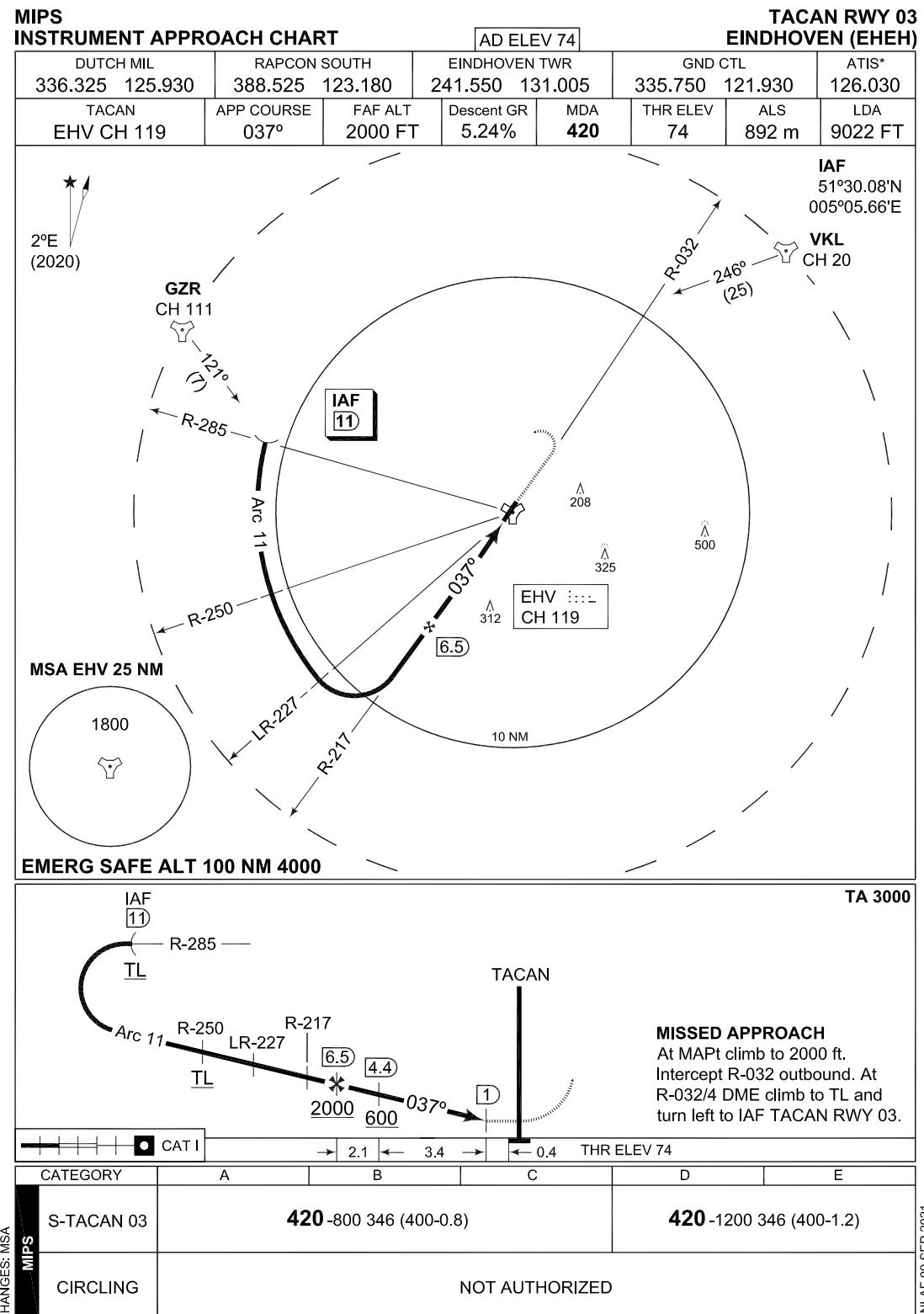
CHANGES: MSA

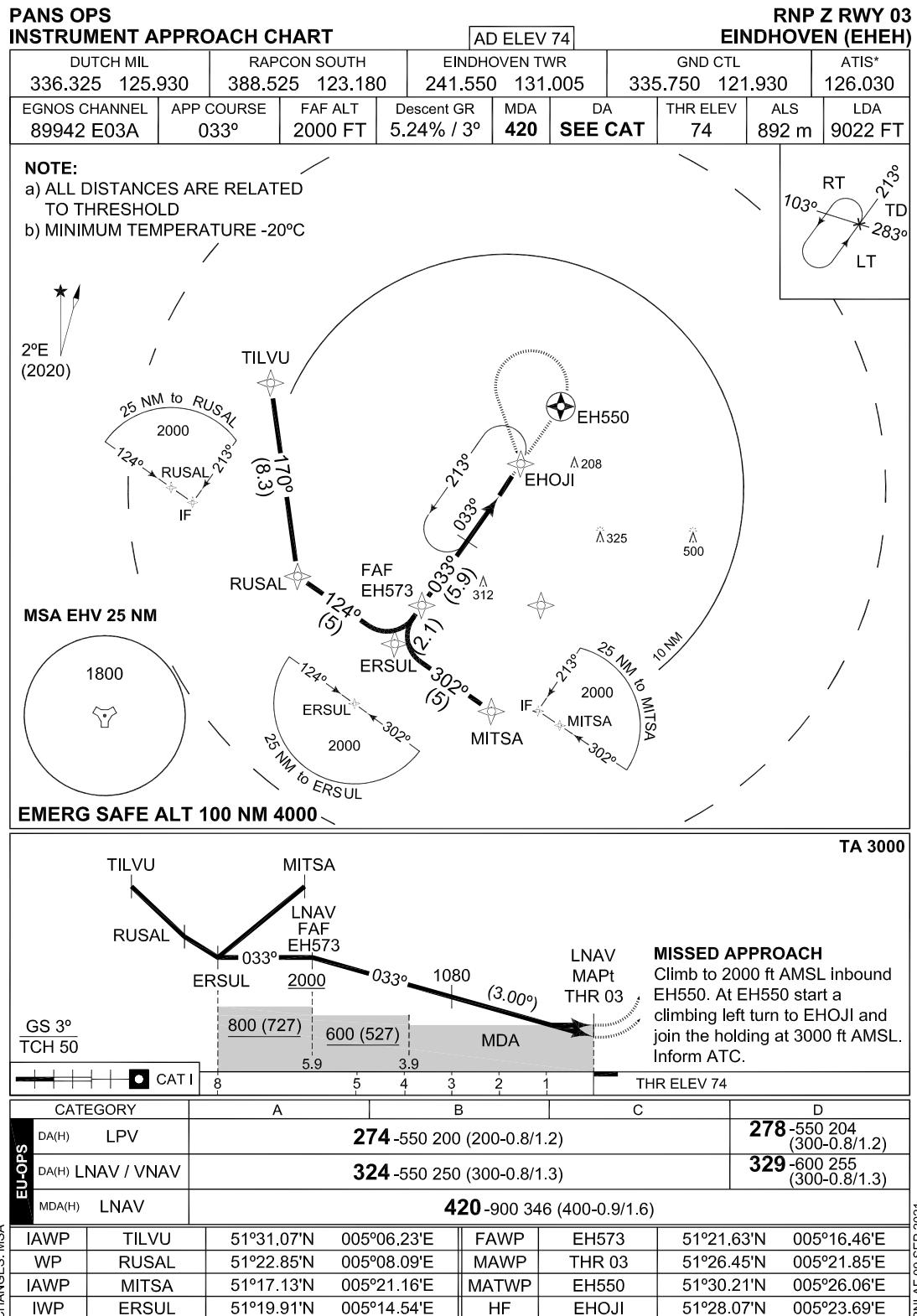
RNLAf 09 SEP 2021

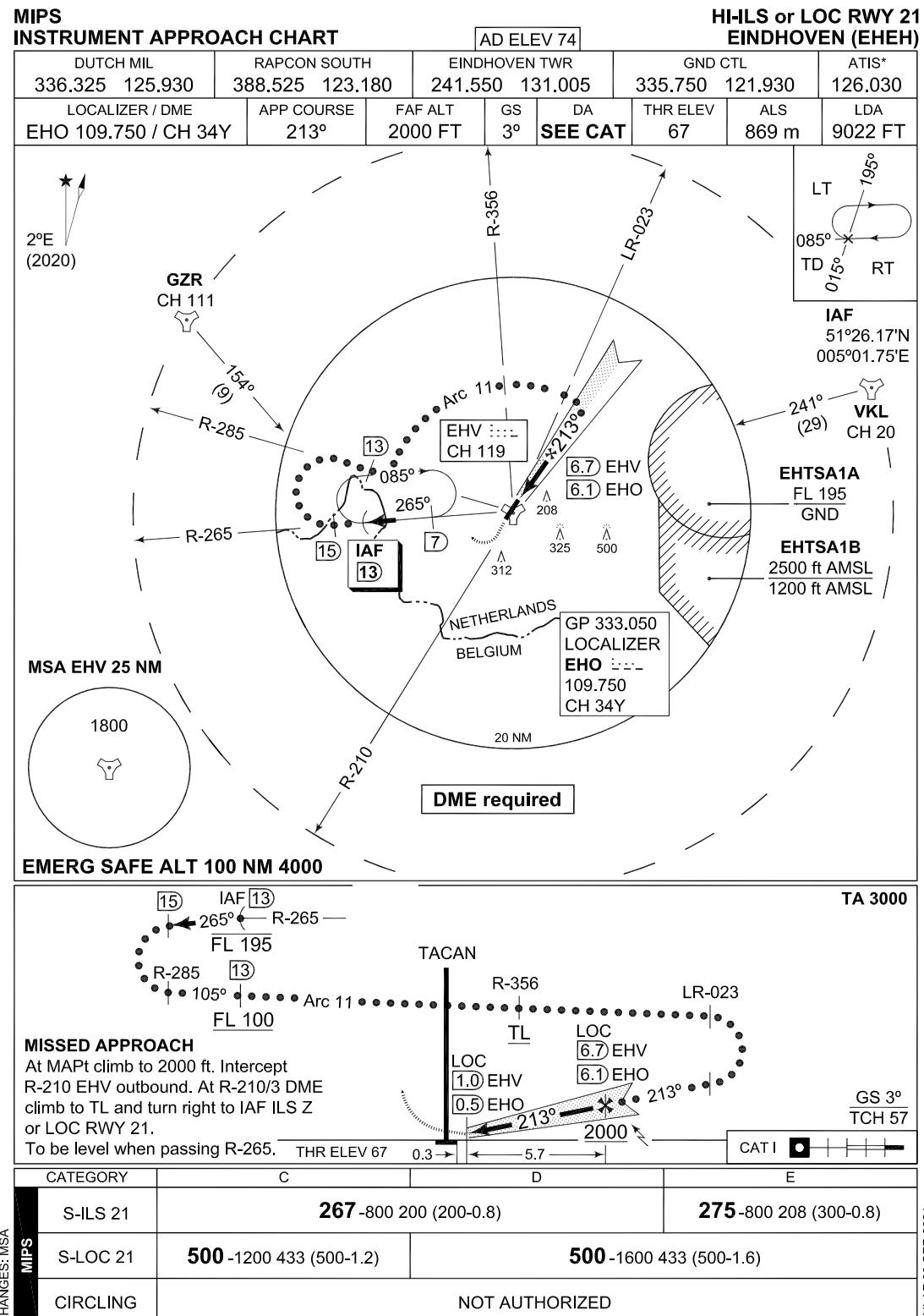


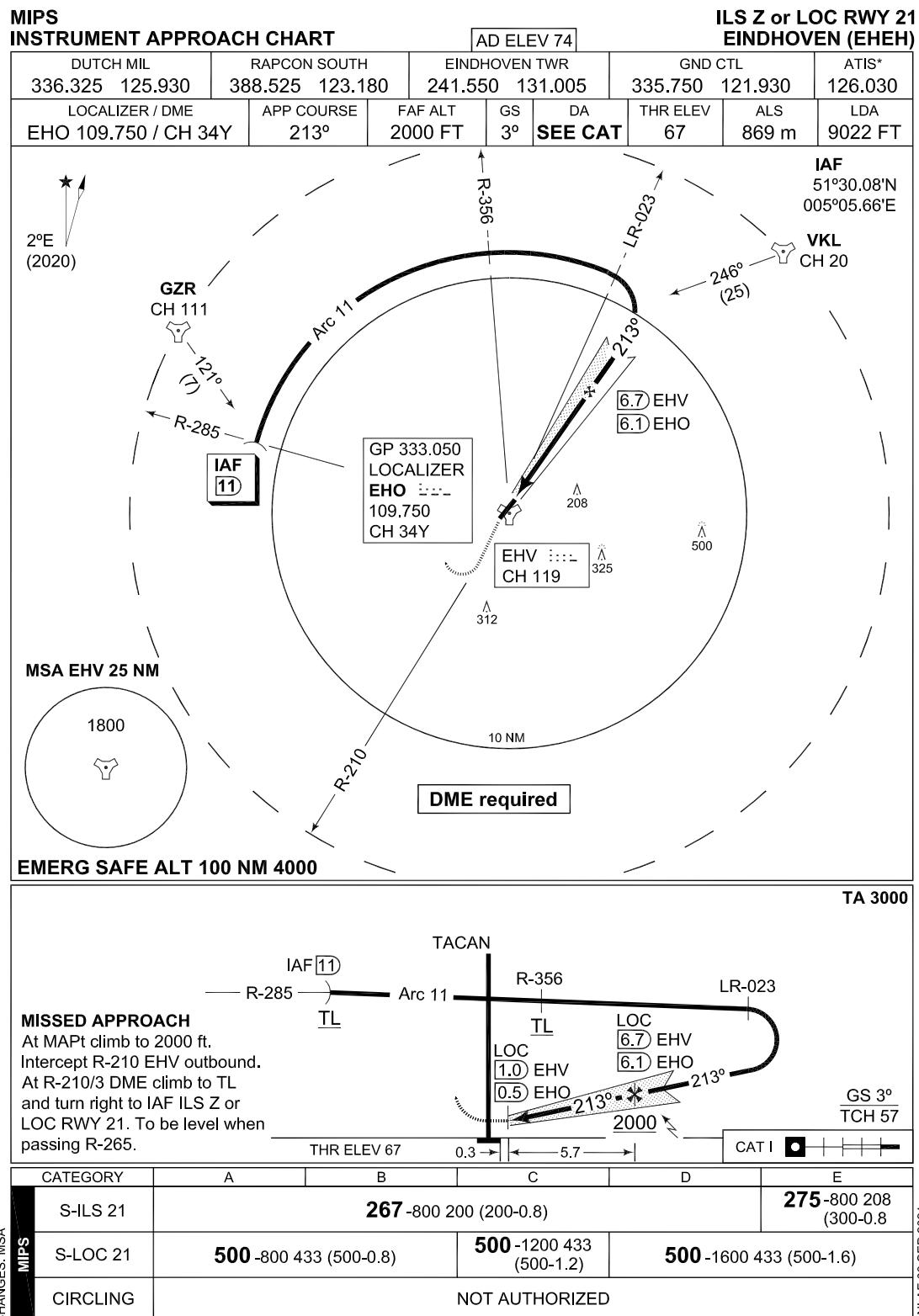


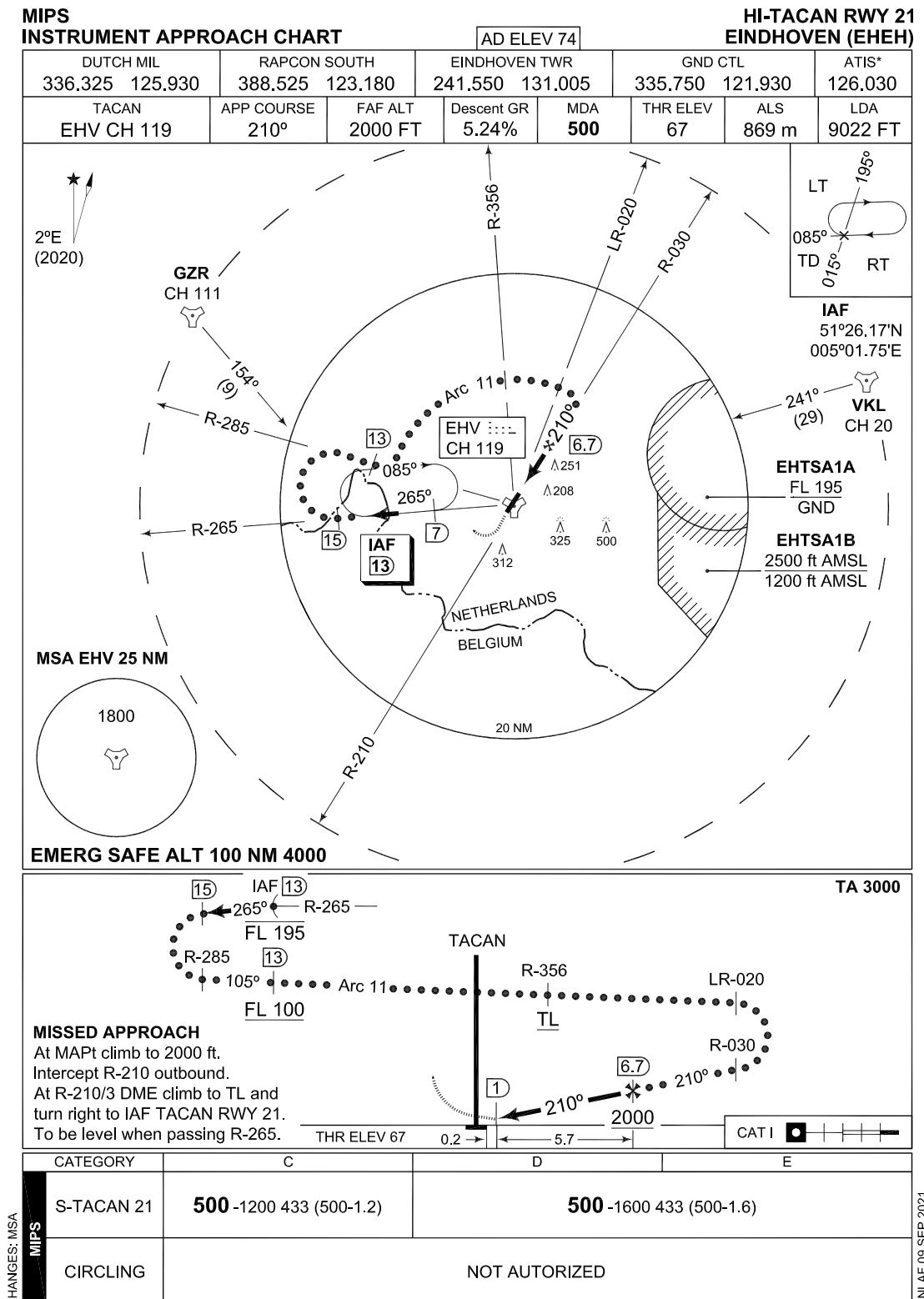


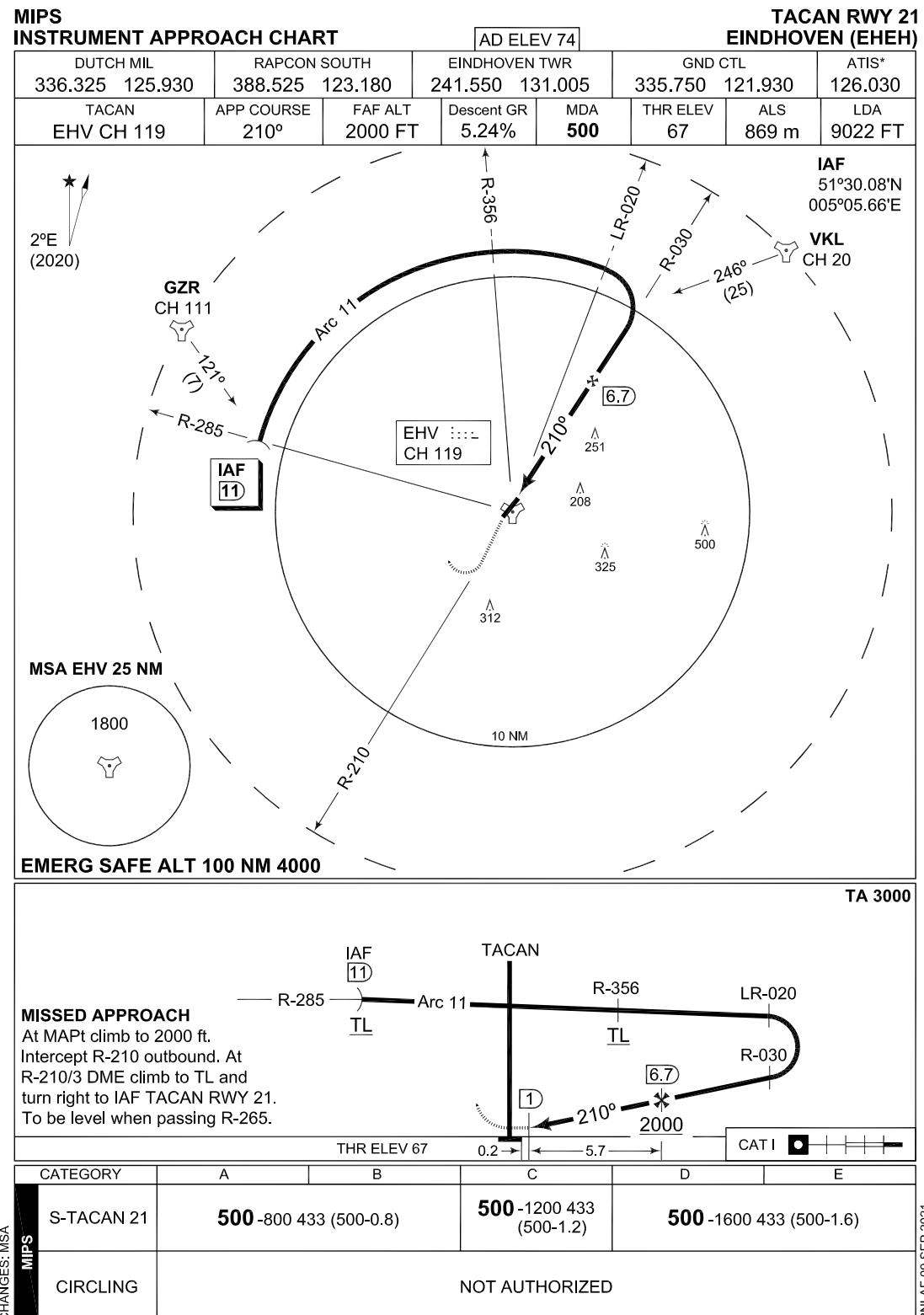


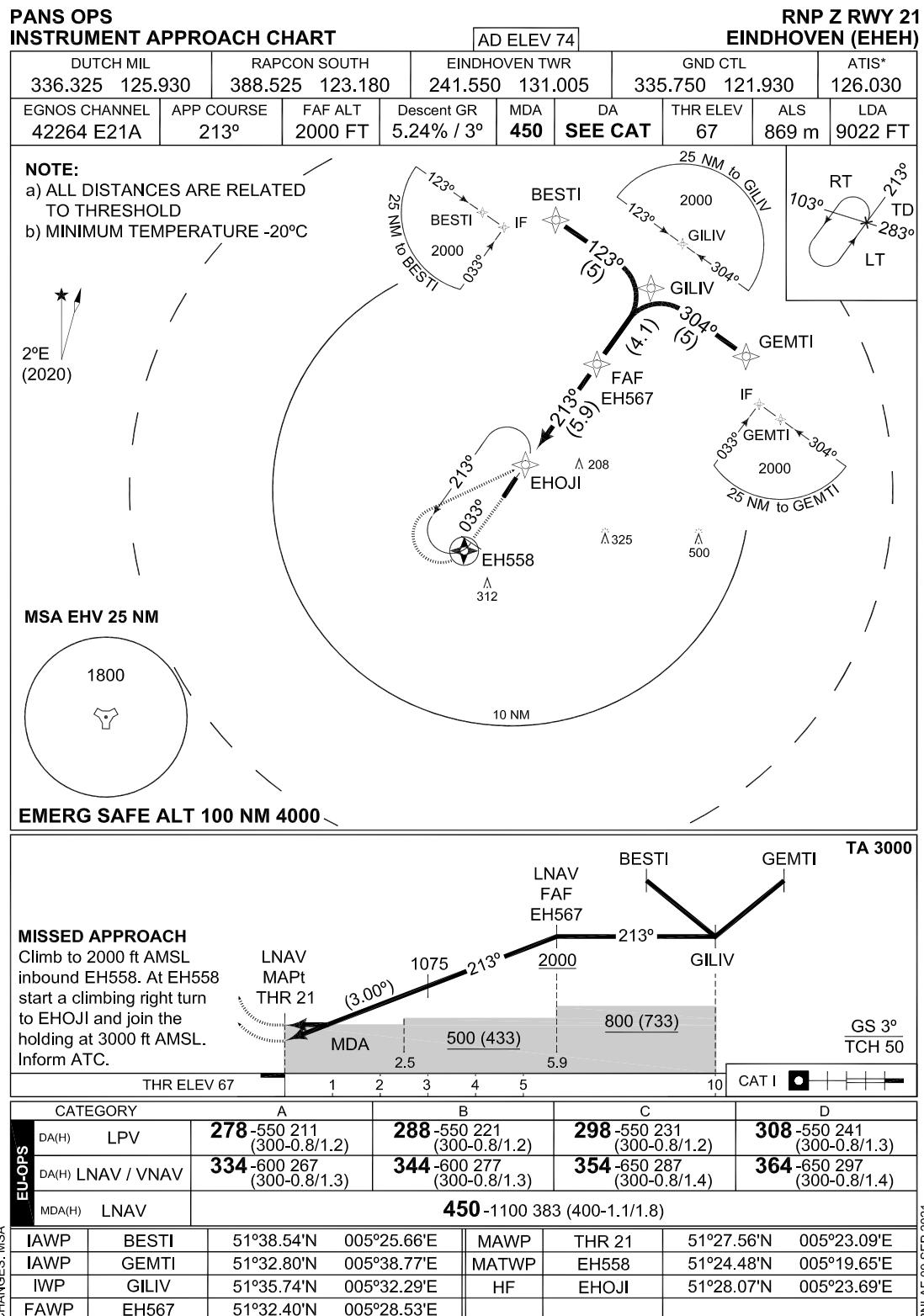












RNLAFF 09 SEP 2021

INTENTIONALLY LEFT BLANK

PART 3 – AERODROMES (AD)

AD 2.

AD 2. AERODROMES GILZE RIJEN

GILZE RIJEN

EHGR AD 2.1 Aerodrome location indicator and name

EHGR - Gilze-Rijen

EHGR AD 2.2 Geographical and administrative data

| | | |
|---|---|---|
| 1 | ARP | 51°34'02.56"N 004°55'54.61"E |
| 2 | Direction and distance from city | 280° MAG/6.1 NM TILBURG |
| 3 | Elevation/Reference temperature | + 49 ft AMSL/22.1° C (JUL) |
| 4 | MAG VAR/Annual change | 1°41'E (JAN 2020)/11'E |
| 5 | AD operating authority Postal address Visitors' address Telephone Telefax AFTN | RNLAF DHC Vliegbasis Gilze-Rijen MPC 89A P.O. Box 8762 4820 BB Breda Rijksweg 121 5121 RD Rijen +31(0)161 296523 +31(0)161 296525 EHGRZTZX |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHGR AD 2.3 Operational hours

| | | |
|----|----------------------------|--|
| 1 | AD OPR HR | MON/FRI 0800/1530 (0700/1430) |
| 2 | Customs and immigration | 30 MIN PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | See 2.23 |
| 5 | ATS Reporting Office (ARO) | See 2.23 |
| 6 | MET Briefing Office | HO |
| 7 | ATS | HO |
| 8 | Fuelling | HO |
| 9 | Handling | NIL |
| 10 | Security | HO |
| 11 | De-icing | Nil |
| 12 | Remarks | PPR 24 HRS See 2.23 OPR HR regulary MON/THU until 2200 (2100) |

EHGR AD 2.4 Handling services and facilities

| | | |
|---|--------------------------------|-----------------------|
| 1 | Cargo-handling facilities | Yes |
| 2 | Fuel/oil types | F-34, F-18, H-515 |
| 3 | Fuelling facilities/capacity | No limitations |
| 4 | Oxygen | Nil |
| 5 | De-icing facilities/type | Nil |
| 6 | Starting units | DSA 150, DSA 600, JAS |
| 7 | Hangar space for visiting ACFT | Limited |
| 8 | Repair facilities | AH64, AS32, H47 |
| 9 | Remarks | Nil |

EHGR AD 2.5 Passenger facilities

| | | |
|---|--------------------|----------------------------|
| 1 | Remain overnight | AVBL O/R |
| 2 | Medical facilities | Medical officer, ambulance |
| 3 | Remarks | Nil |

EHGR AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|------------------------|
| 1 | AD category for fire fighting | NATO CAT 7 NATO H-3 |
| 2 | Remarks | Nil |

EHGR AD 2.7 Seasonal availability - clearing

| | | |
|---|------------------------|---|
| 1 | Seasonal availability | All seasons |
| 2 | Snow removal equipment | Yes |
| 3 | Remarks | Caution advised in winter during ice conditions |

EHGR AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|---|
| 1 | Apron surface and strength | Concrete, 298: PCN 47 R/C/W/T 300: PCN 36 R/C/W/T 301: PCN 27 R/C/W/T Ref: PCN 27 R/C/W/T |
| 2 | TWY width, surface and strength | Width 39 ft, tarmac/concrete, PCN 45 R/C/W/T |
| 3 | Remarks | Nil |

EHGR AD 2.9 Surface movement guidance and control system and markings

| | |
|-----------------------|---------|
| According STANAG 3158 | |
| 1 | Remarks |

EHGR AD 2.10 Aerodrome obstacles

Obstacles along RWYs and TWYs are not conform to standard obstacle clearance requirements. Further details in Aerodrome Chart.

EHGR AD 2.11 Meteorological information provided

| | | |
|---|--|---|
| 1 | Associated MET Office | Gilze-Rijen |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHGR 0161-296552 or mail Afdeling.Meteo.GilzeRijen@mindef.nl Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHGR AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|--|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | PCN: RWY 10: 55 F/A/W/T RWY 28: 55 F/A/W/T RWY 02: 55 F/A/W/T RWY 20: 55 F/A/W/T |

EHGR AD 2.13 Declared distances

See Aerodrome Chart. Values in ft.

EHGR AD 2.14 Approach and runway lighting

| According STANAG 3316 | | |
|-----------------------|-------------------|---|
| 1 | Approach lighting | RWY 28: CAT I. 780 m RWY 10: SALS. 420 m RWY 20: Nil RWY 02: Nil |
| 2 | RWY lighting | RWY 10/28 VCL/ VHI, RWY 02/20 VHI |
| 3 | PAPI | Situated on the left side of RWY 10/28 |
| 4 | Remarks | Nil |

EHGR AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|-----------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | VB |
| 3 | Emergency RWY lighting | Nil |
| 4 | Emergency TWY edge lighting | Retroreflective markers |
| 5 | Secondary power supply/switch-over | AVBL, switch over time 15 seconds |
| 6 | Remarks | Nil |

EHGR AD 2.16 Helicopter landing area

| | | |
|---|---------------------------|--|
| 1 | Location | Centre of the north-west corner RWY 10/28 and 02/20 |
| 2 | Marking | Daylight marking |
| 3 | Lighting | Yes, non NATO standard |
| 4 | Remarks | Nil |
| 5 | Panels for local circuits | 3 panels direction 10/28, west-northwest of the ARP and north of RWY 10/28; 4 panels direction 02/20, southeast of ARP and west of RWY 02/20. |

EHGR AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|--|
| 1 | Designation and lateral limits | Gilze-Rijen control zone 51°29'58.19"N 004°47'48.26"E; along clockwise arc (radius 6.5 NM, centre 51°34'02.56"N 004°55'54.61"E) to 51°28'56.13"N 005°02'20.09"E; along Dutch-Belgian border to 51°28'14.92"N 005°00'36.24"E; along clockwise arc (radius 6.5 NM, centre 51°34'02.56"N 004°55'54.61"E) to 51°28'32.16"N 004°50'23.92"E; along Dutch-Belgian border to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Gilze-Rijen TWR. English |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHGR AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|--|-------|---------------------------------|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Gilze-Rijen Tower | 125.330*) 122.100 277.350*) 257.800 | HO | *) Primary FREQ |
| GND CTL | Gilze-Rijen Ground | 123.300 278.125 | HO | |
| APP | Rapcon West | 123.580 281.475 | HO | Radar equipped |

| | | | | |
|--|---------------|--------------------|----|-----------------------|
| | Gilze Arrival | 123.580 359.975 | HO | Through APP |
| | Gilze Monitor | 128.990 | HO | Nieuw Milligen TMA D1 |

EHGR AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|---------------|-----|---------------|-------|---------------------------------|--------------------|---------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| TACAN | GZR | CH 111X | H24 | 51°33'57.73"N 004°56'00.68"E | 40 NM/ 25000 ft | FREQ protected |
| ILS LOCALIZER | GZO | 111.900 | H24 | 51°34'11.49"N 004°54'34.82"E | | ILS-antenna 55 ft AMSL |
| GLIDEPATH | | 331.100 | | 51°33'54.24"N 004°56'42.50"E | | |
| DME | | CH 56X | H24 | 51°33'54.24"N 004°56'42.50"E | | |

EHGR AD 2.20 Local traffic regulations

Start-up

Prior to engine start, pilots request a start-up clearance from GND CTL stating callsign, position, POB and if an IFR clearance is required the (R)ETD. Start-up permission will be given including QNH, wind, RWY in use and birdstatus/migration (if higher than normal).

Taxi

Prior to taxi, pilots request taxi permission from GND CTL and state intended runway intersection, departure panel or parking spot. Taxi instructions, RWY or circuit in use and wind will be given. Runways may be used for taxi after permission from ATC.

Hover-taxi outside taxi tracks and runways is only allowed after permission from ATC. Tactical Transition (in R/T referred to as hop-over/re-positioning) may be approved traffic permitting. (Hover-)Taxi speed shall not exceed 20 kts. Wheeled helicopters will ground taxi when approaching aprons. If mechanical problems prohibit ground taxi, hover taxi is permitted. Helicopters will not hover taxi within 50 ft of buildings. Use extreme caution regarding rotor-wash around buildings and other aircraft.

During UDP, aircraft taxi with anti-collision and position lights on. Outside UDP all aircraft use a red anti-collision light. Outside UDP, ATC may order to turn off anti-collision light and put navigation light to dim-mode during aided/NVG operations.

Circuit Procedures

HELICOPTERS

All circuits direction 10/28 to be flown south of the N282 highway (Rijksweg) and north of the A58 motorway. Overflying village of Hulten, (NE of airfield) to be avoided at all times.

Deviations only after approval from ATC. If a NATO standard rectangular circuit cannot be flown within the established boundaries, crosswind and base-leg may be executed by conducting a 180° turn. Base-leg turns should be initiated at a point situated 45° to the

intended landing spot unless otherwise instructed by ATC. When intending to join a circuit from one of the departure locations on the airfield or from the end of the corridor, the pilot will be instructed to join downwind, base-leg or final. Normal circuit altitude is 650 ft AMSL, minimum circuit altitude is 250 ft AMSL. A circuit altitude between 650 and 250 ft AMSL is only permitted, when the circuit is flown within airfield boundary and after permission of ATC. Landing on helicopter panels shall be performed on the first panel in the landing direction and if applicable on the inside panel of the circuit (02/20). Hover as soon as possible to the first panel in the take-off direction

FIGHTERS AND FIGHTER TRAINERS

Standard NATO overhead pattern, break to the south (L/H for RWY 28, R/H for RWY 10), after a touch and go or overshoot/low approach a closed pattern or direct downwind can be flown. For a closed pattern the downwind turn shall be executed at the departure end of the RWY and the altitude of 1000 ft AMSL shall no exceed airfield boundaries. The downwind turn shall be executed at the altitude of 1500 ft AMSL on RWY heading.

CONVENTIONAL AIRCRAFT AND GENERAL AVIATION

Standard rectangular pattern, downwind as directed by ATC at 1000 ft AMSL.

Night Flying

Helicopter night flying can be done in a conventional way (UNAIDED) or with use of vision enhancing systems (AIDED). Circuit flying will be done according the VFR local helicopter circuits at standard altitude. Use of searchlight or landing light during circuit flying only after permission of ATC. During night-time all aircraft shall use a red anti-collision light. ATC may order to turn off the anti-collision light and put the navigation light to dim-mode during aided operations. Helicopters will have navigation lights on in dim-mode during aided operations. Airfield lighting will be off during aided flying and will be switched on on request. A mix of aided and unaided flying is only possible when the navigation lights of the aircraft flying aided are turned on in bright mode.

Special Helicopter Procedures

Three Slope areas are available for slope landings:

Slope NORTH is located north of beginning of RWY 10, north of 298 Sqn and west of the Model Flying Club. Due to noise abatement this slope is not available for CH-47 Chinook. Slopes SOUTH are located west of the beginning of RWY 02. Slope CENTRAL is located south of the main runway 10/28, just east of Sling West. Due to the vicinity to Sling West this slope is not available during sling operations on Sling West.

Three Sling areas are available for sling operations, fast roping etc.

Sling East is located south of the beginning RWY 28, to be used in direction 10/28.

Sling West is located south of the beginning RWY 10, to be used in direction 10/28.

Sling South is located south of RWY 10 and East of RWY 02, to be used in direction 02/20. There are two confined landing spots situated on the aerodrome: Confined Tower and Confined South. Circuits will be flown in the direction in use at the time.

Shelter 626 is available for rooftop landings. Pilots shall inform ATC about the intention to make rooftop landings beforehand.

The Softfield-area may be used for Softfield landings in the direction 02 and direction 20. Shortfield landings may be performed on either the Softfield-area, in direction 10/28 or on Sling South. For training purposes RWY 10/28 can be divided into two or three parts, either west and east of Delta, or from intersections Alpha to Charlie, Charlie to Echo and Echo to Lima. For training purposes RWY 02/20 can be divided into two parts, North and South of intersection Echo.

Glider and Light Aircraft Flying

Glider and light aircraft flying may take place outside OPR HR within UDP.

EHGR AD 2.21 Noise abatement procedures

All aircraft flying VFR in the CTR must avoid overflying all build-up areas. Home based military helicopters shall fly at a minimum altitude of 1000 ft. Altitude deviations shall be requested. Altitudes below 1000 ft will only be approved to remain VMC or to ensure flight safety. In addition overflying the following positions is not allowed below certain altitudes.

| Area to avoid: | Coordinates | Minimum Altitude |
|-------------------------|----------------------------|------------------|
| Amarant | 51° 33.30' N 005° 00.18' E | N/A |
| Ammunition depot Alphen | 51° 29.33' N 004° 56.17' E | N/A |
| Efteling | 51° 38.98' N 005° 02.81' E | 1000 ft AMSL |
| Manege Hulten | 51° 34.28' N 004° 56.50' E | N/A |
| Atalanta | 51° 34.81' N 004° 55.52' E | 650 ft AMSL |
| Nerhoven | 51° 33.40' N 004° 56.24' E | 650 ft AMSL |
| Farm Lijndonk 1a | 51° 33.72' N 004° 54.60' E | 650 ft AMSL |

Except for tactical entries during rejoining and landing-procedures flying with a speed of 300 KTS or more is forbidden. Unless safety- or operational reasons dictate otherwise the use of afterburner is prohibited. No practice approaches are to be made for RWY 10 and RWY 28 after 20.00 hrs LT. For noise abatement and separation of inbound and outbound helicopters, six corridors have been established. The corridors are established along multiple ground reference points, one of which is an IP (Initial point). The width of the corridors is 1000m; 500 meters to either side of the (imaginary) line between the reference points. All traffic shall proceed on the right hand side of the (imaginary) line between the reference points, to achieve a safe flow of inbound and outbound traffic. When departing from or arriving at the airfield via one of the corridors, the overflying of built-up areas has to be avoided at all times. An IP is a reference point and should NOT be overflowed directly. An R/T call 'passing IP' is mandatory when abeam the IP. IP altitude for all helicopters is 1000 ft AMSL. Altitude deviations shall be requested.

| | | | |
|---------------------------------|------------------------------------|---------------------------------|------------------------------------|
| Corridor W2 (West 2) | | | |
| Reference point | IP NW (North-West) | W1 | W2 |
| 51°35'07.00"N 004°53'35.00"E | 51°36'22.00"N 004°52'16.00"E | 51°37'11.00"N 004°49'50.00"E | 51°37'44.00"N 004°46'04.00"E |
| | The most northern tip of a pond | Road intersection | Canal perpendicular to the road |

| | | | |
|---------------------------------|---------------------------------|---------------------------------|--|
| Corridor N1 (North 1) | | | |
| Reference point | IP NW (North-West) | N1 | |
| 51°35'07.00"N 004°53'35.00"E | 51°36'22.00"N 004°52'16.00"E | 51°40'21.73"N 004°55'29.96"E | |

| | | |
|--|---------------------------------|--------------------|
| | The most northern tip of a pond | Water intersection |
|--|---------------------------------|--------------------|

| | | |
|---------------------------------|---|------------------------------|
| Corridor N2 (North 2) | | |
| Reference point | IP NE (North-East) | N2 |
| 51°34'45.00"N 004°57'33.00"E | 51°36'16.00"N 004°58'12.00"E | 51°40'22.09"N 004°59'58.94"E |
| | The north-easterly corner of the tree line just south of the Wilhelminakanaal | Demolition company |

| | | |
|---------------------------------|---|---|
| Corridor E (East) | | |
| Reference point | IP NE (North-East) | E |
| 51°34'45.00"N 004°57'33.00"E | 51°36'16.00"N 004°58'12.00"E | 51°38'05.03"N 005°03'38.12"E |
| | The north-easterly corner of the tree line just south of the Wilhelminakanaal | T-junction parallel road next to the N261 |

| | | |
|---------------------------------|------------------------------|------------------------------|
| Corridor SE (South-East) | | |
| Reference point 1 | IP SE (South-East) | Reference point 2 |
| 51°33'20.00"N 004°57'53.00"E | 51°31'09.00"N 005°00'42.00"E | 51°29'51.00"N 005°03'11.00"E |

| | | |
|---------------------------------|------------------------------|--|
| Corridor SW (South-West) | | |
| Reference point | IP SW (South-West) | |
| 51°33'28.00"N 004°53'39.00"E | 51°31'54.00"N 004°49'33.00"E | |

EHGR AD 2.22 Flight procedures

Approach Procedures

HELICOPTERS

Proceed via one the corridors as instructed by ATC.

FIGHTERS AND FIGHTER TRAINERS

When approaching 'the Kets' at 2000 ft AMSL pilots may request direct downwind. When direct downwind is approved, descend 1500 ft AMSL, with a max. of 300 kts IAS. After passing overhead perform a right/left turn to join downwind for RWY 10/28. For RWY 10 Initial has to be approached via a right-hand turn. Initial is the highway-crossing northwest of the village of Bavel. After passing initial, descend to circuit altitude 1500 ft AMSL. There is a right break to a right-hand circuit. For RWY 28 Initial has to be approached via a left-hand turn. Initial is the (white coloured) industrial complex along the north side of the village of Riel. After passing initial, descend to circuit altitude 1500 ft AMSL. There is a left-hand break to a left-hand circuit. Initial RWY 02 is situated on the centreline at 3 NM in front of the RWY (centre of Chaamse Bossen forest), altitude 1500 ft AMSL. There is a lefthand break to downwind, altitude 1500 ft AMSL. Initial RWY 20 is situated on the centreline, 0.5 NM east of the swimming pool near Dongen, altitude 1500 ft AMSL. There is a righthand break to downwind, altitude 1500 ft AMSL. There are roads situated in front of the beginning of both RWY 02 and 20. These roads have to be overflowed at a minimum altitude of 200 ft AMSL because of unrestricted vehicle movement on these roads.

CONVENTIONAL AIRCRAFT AND GENERAL AVIATION

Join a standard rectangular pattern at 1000 ft AMSL as directed by ATC. There are roads situated in front of the beginning of both RWY 02 and 20. These roads have to be overflowed at a minimum altitude of 200 ft AMSL because of unrestricted vehicle movement on these roads.

Departure Procedures**HELICOPTERS**

Proceed via one of the corridors as instructed by ATC.

FIGHTERS AND FIGHTER TRAINERS

For RWY 28, maintain runway heading until reaching 500 ft AMSL. Do not exceed 1000 ft AMSL over the RWY. Turn left to 240° magnetic climbing to 1500 ft AMSL, maintain heading until abeam the village of Ulvenhout. For RWY 10, maintain runway heading until reaching 500 ft AMSL. Do not exceed 1000 ft AMSL over the RWY. Turn right to 145° magnetic climbing to 1500 ft AMSL; maintain heading until abeam the village of Goirle.

CONVENTIONAL AIRCRAFT AND GENERAL AVIATION

Climb 1000 ft AMSL and depart as directed by ATC.

Radar Patterns

Gilze-Rijen Arrival Controller will control all radar patterns to a point to intercept a TACAN-or ILS-final. Radar patterns for RWY 28/10 are situated north of the airfield. Downwind altitude is 2500 ft AMSL. Baseleg altitude is 2000 ft AMSL. After a touch and go or low approach stay below 1000 ft AMSL until passing airfield boundary. For RWY 28 continue runway heading and climb to 2500 ft AMSL, when passing 1500 AMSL turn right heading 060°. For RWY 10 continue runway heading and climb to 2500 ft AMSL, when passing 1500 ft AMSL turn left heading 320°. Radar patterns for RWY 20/02 are situated west of the airfield. Downwind altitude is 1600 ft AMSL. Baseleg altitude is 1600 ft AMSL. If communication is lost during a radar pattern, the pilot shall execute a TACAN approach and try to contact RAPCON West/Gilze-Rijen Arrival Controller or Gilze-Rijen Tower on standard or emergency frequencies. If TACAN is unserviceable the procedure is to maintain last given heading, and altitude and try to contact RAPCON West/Gilze-Rijen Arrival Controller or Gilze-Rijen Tower on standard or emergency frequencies. The (simulated) low fuel pattern is situated south of the airfield and can only be flown for the runway 28. Downwind and Base leg will be flown at altitude 1600 ft AMSL. Localizer interception altitude will be 1200 ft.

Lost communications Procedures

HELICOPTERS

Outside EHGR CTR, Squawk A7600, switch on landing light and stay outside the CTR until reaching a position North of IP NE. Enter EHGR CTR from the North and proceed to IP NE at 500 ft AMSL. Inside EHGR CTR but more than 2 NM from ARP, Squawk A7600, switch on landing light and proceed to IP NE at 500 ft AMSL. When south of the extended centerline 10/28, avoid all built-up areas and proceed well clear of the airfield and the circuit area to IP NE. After IP NE proceed to the airfield via corridor NE. When exiting the corridor, proceed to final for the main helisquare direction 20. Stay north of RWY 10/28 at all times. On final the pilot shall receive a clearance by a light from the tower in accordance with EAR SERA APPENDIX 1. After landing the pilot shall also receive a clearance via a light from the tower to taxi to a platform. During taxi the aircraft shall remain north of the RWY 10/28 at all times. If less than 2 NM from ARP, Squawk A7600, switch on landing light, stay clear of all RWYs and centerlines and land on the most suitable helicopter landing spot. After landing wait for taxi clearance by a light from the tower in accordance with EAR SERA APPENDIX 1 or the follow-me car. For simulated non-comms procedure squawk 3766.

FIGHTERS AND FIGHTER TRAINERS

When entering the CTR, Squawk A7600. Proceed in accordance with the normal procedures towards the IP of the active RWY. If the RWY in use is not known, proceed to the IP of the expected RWY according to current wind. From IP descent to altitude 1500 ft AMSL and proceed to the 'dead side' of the circuit with 'wagging wings'. Turn downwind at the departure end of the RWY. ATC will signal by a light from the tower in accordance with EAR SERA APPENDIX 1. After landing wait for taxi clearance by a light from the tower in accordance with EAR SERA APPENDIX 1 or the follow-me car.

EHGR AD 2.23 Additional information

AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.

Tel: +31(0)20 4062840

Tel: +31 (0)20 4062841

E-mail: aocs.fdno@mindef.nl

AFTN: EHMCZPZX

avlbl H24

PPR 24 HRS:for Prior Permission Request contact:

Operational and Co-ordination Centre

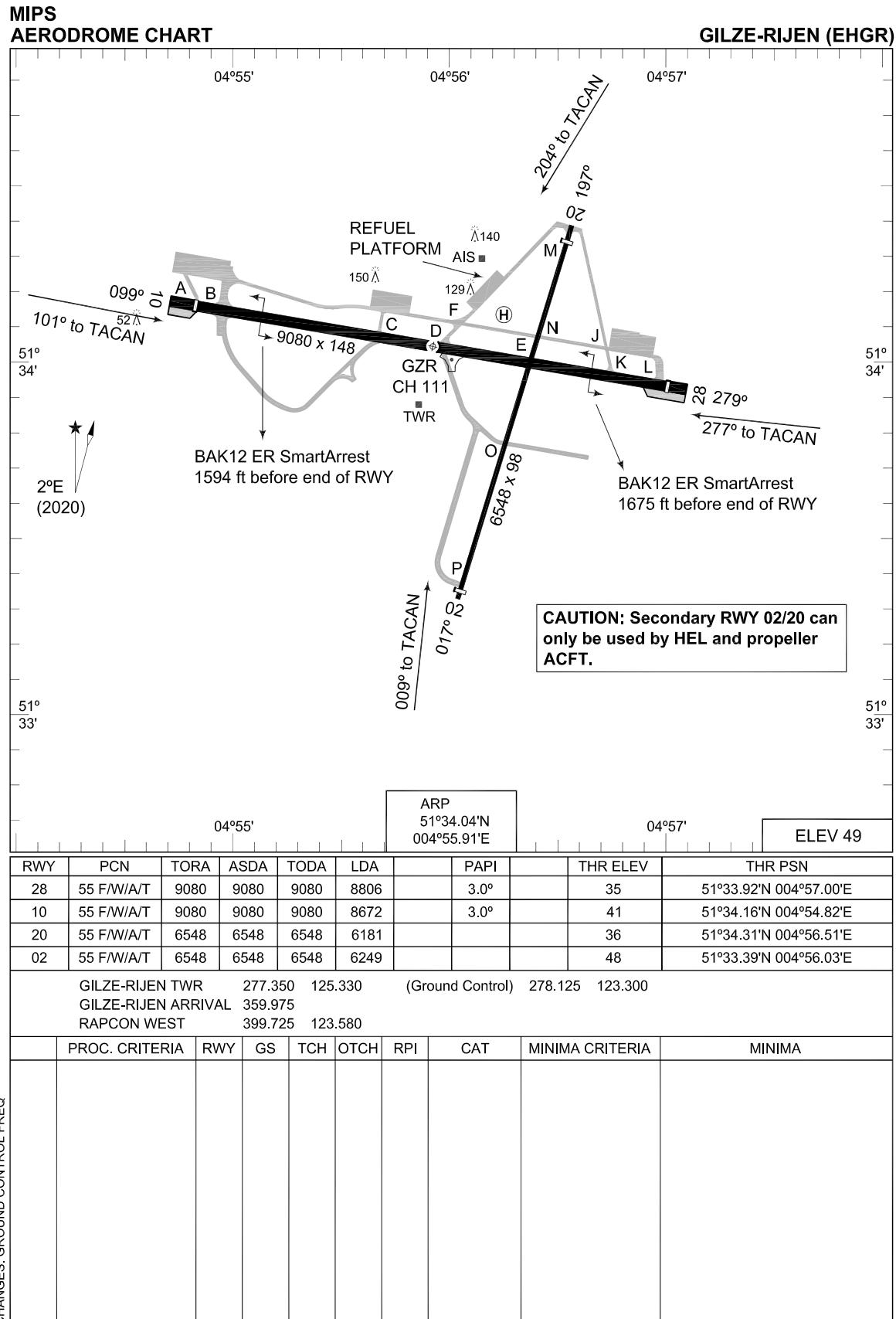
Tel: +31(0)161 296770

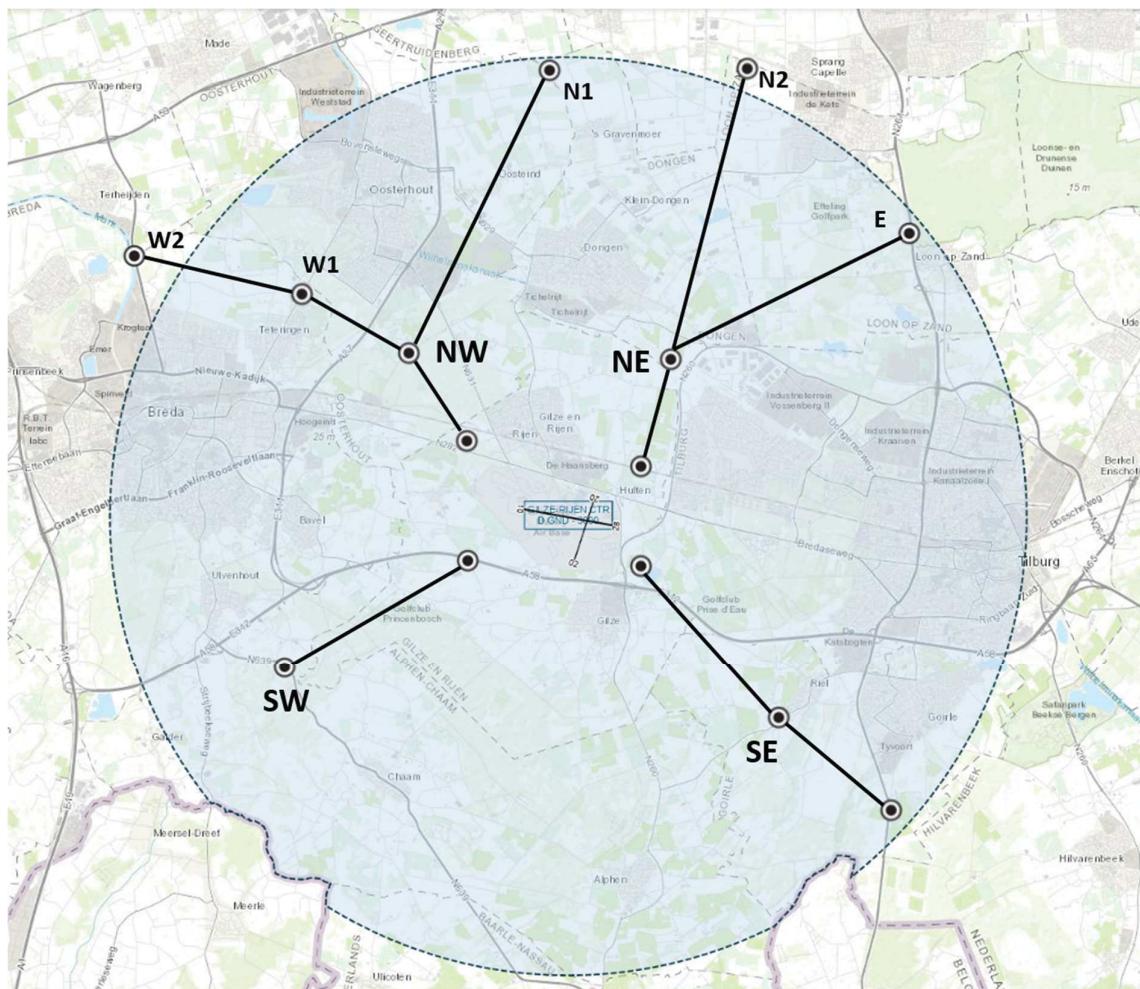
Fax: +31(0)161 296785

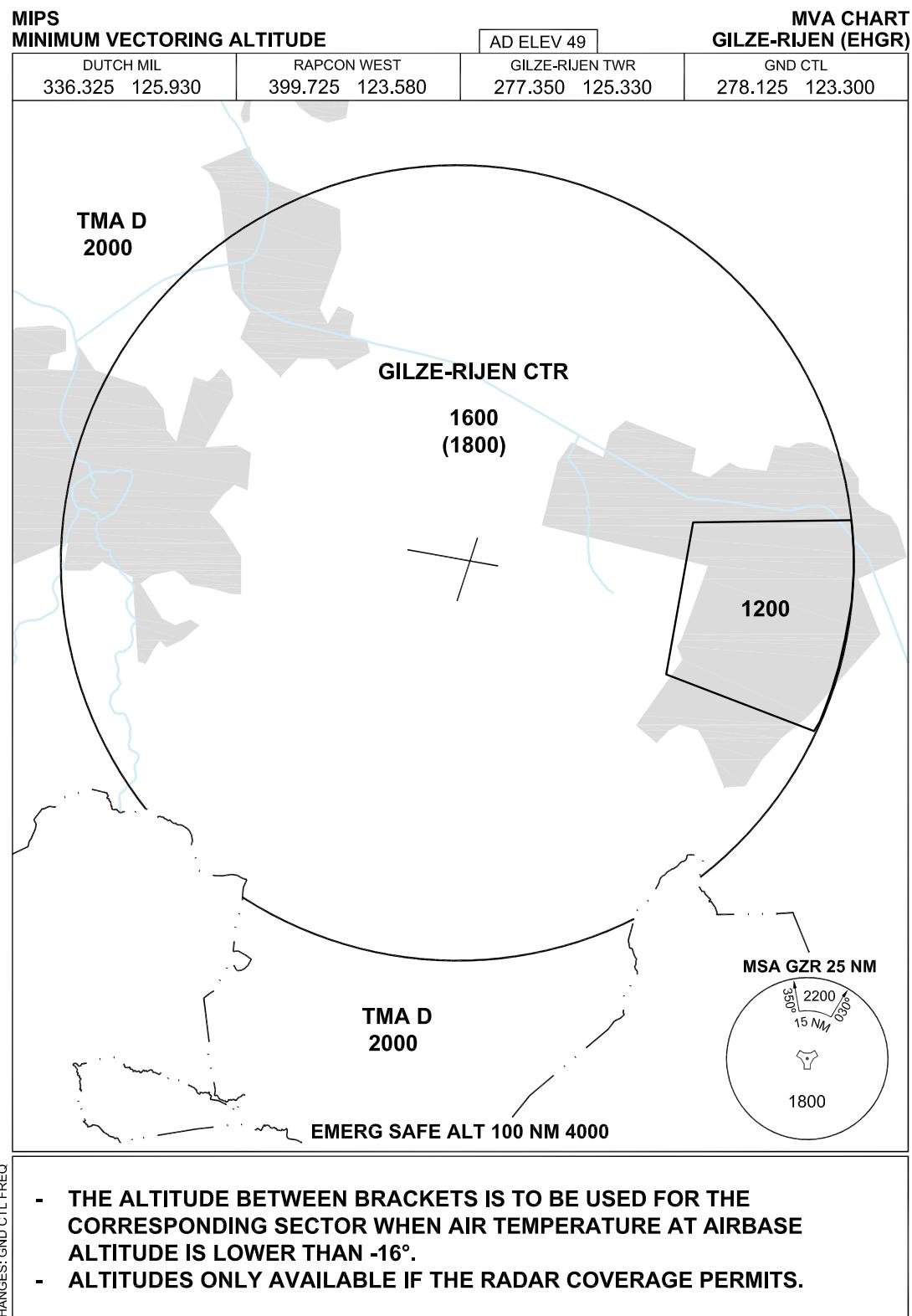
E-mail: dhc.sopp.occ@mindef.nl

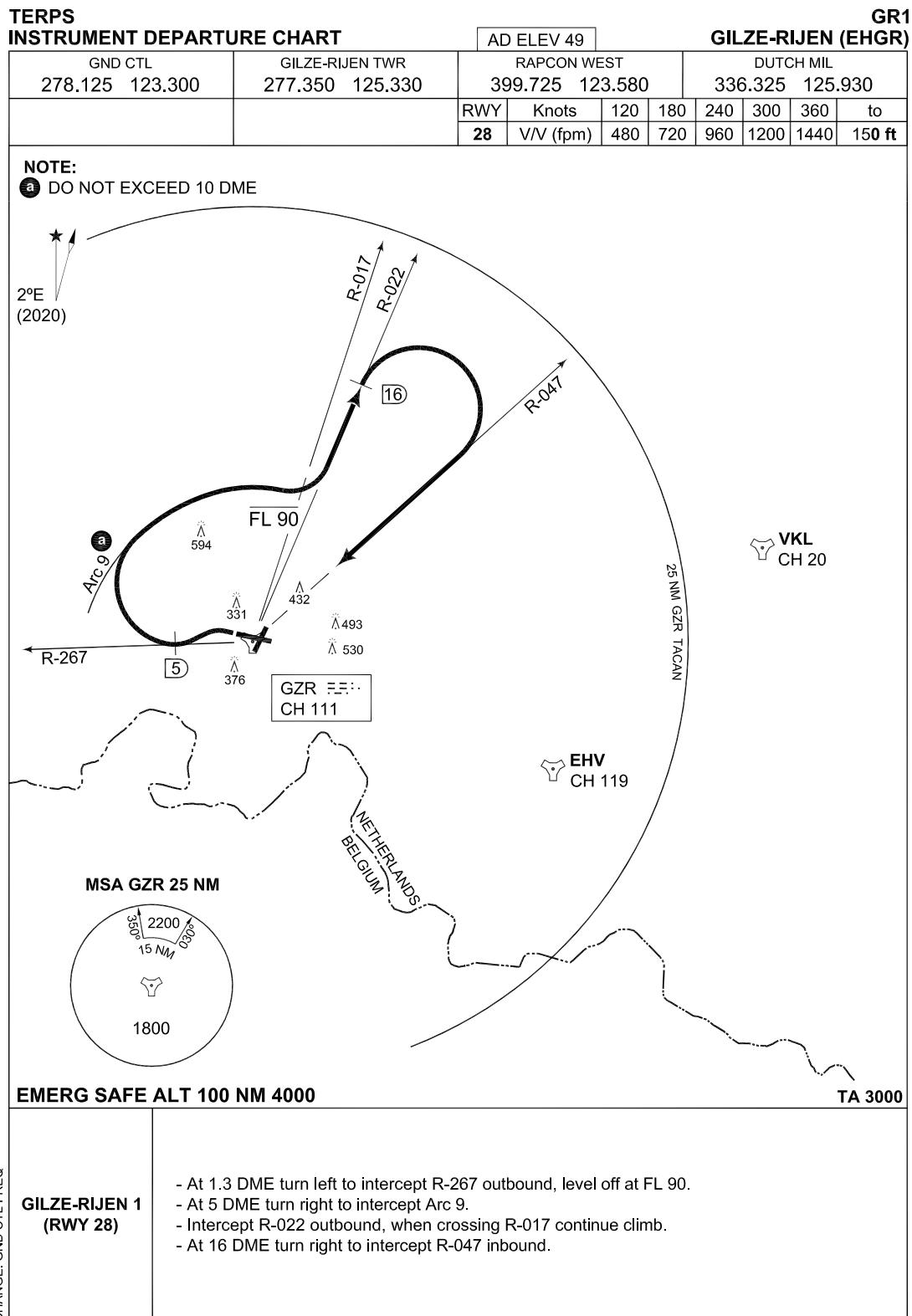
EHGR AD 2.24 Charts related to an aerodrome

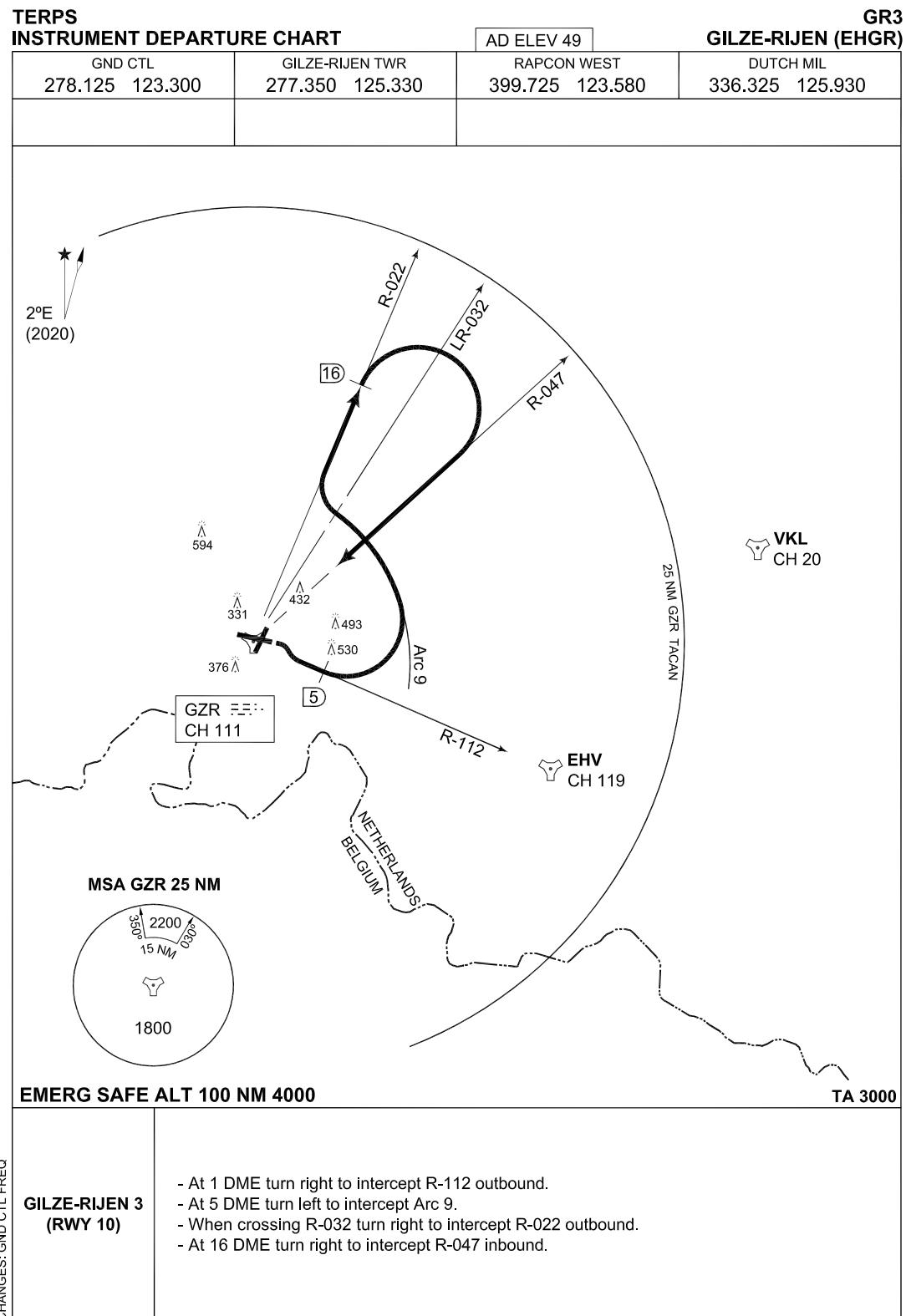
| | |
|---|--------------|
| Aerodrome Chart | EHGR AD 2-14 |
| Local map | EHGR AD 2-15 |
| MVA chart | EHGR AD 2-16 |
| Instrument departure chart GR1 | EHGR AD 2-17 |
| Instrument departure chart GR3 | EHGR AD 2-18 |
| Instrument approach chart COPTER TACAN 008 | EHGR AD 2-19 |
| Instrument approach chart HI-TACAN RWY 10 | EHGR AD 2-20 |
| Instrument approach chart TACAN RWY 10 | EHGR AD 2-21 |
| Instrument approach chart COPTER TACAN 101 | EHGR AD 2-22 |
| Instrument approach chart COPTER TACAN 204 | EHGR AD 2-23 |
| Instrument approach chart ILS OR LOC RWY 28 | EHGR AD 2-24 |
| Instrument approach chart HI-TACAN RWY 28 | EHGR AD 2-25 |
| Instrument approach chart TACAN RWY 28 | EHGR AD 2-26 |
| Instrument approach chart COPTER TACAN 277 | EHGR AD 2-27 |

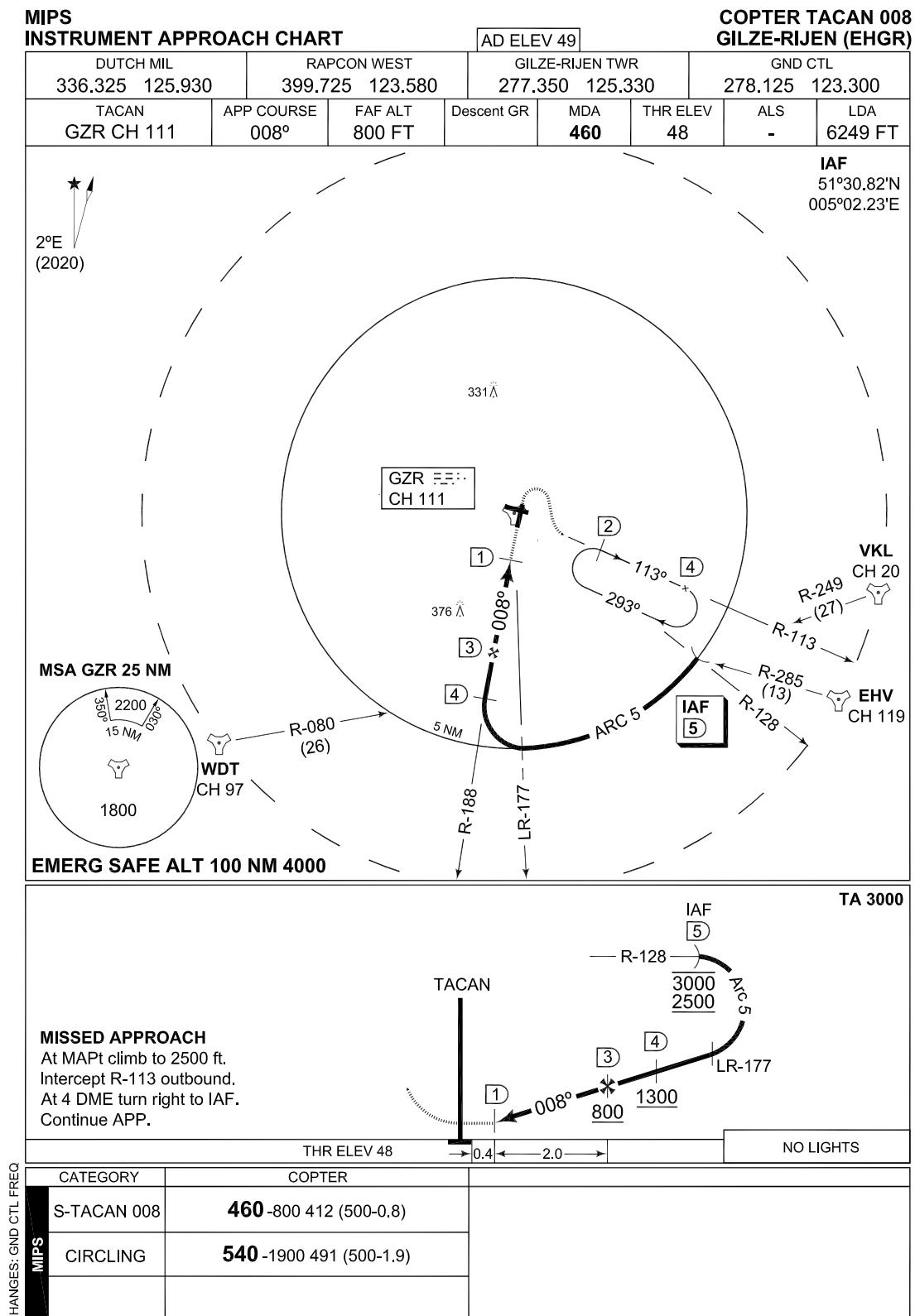


LOCAL MAP



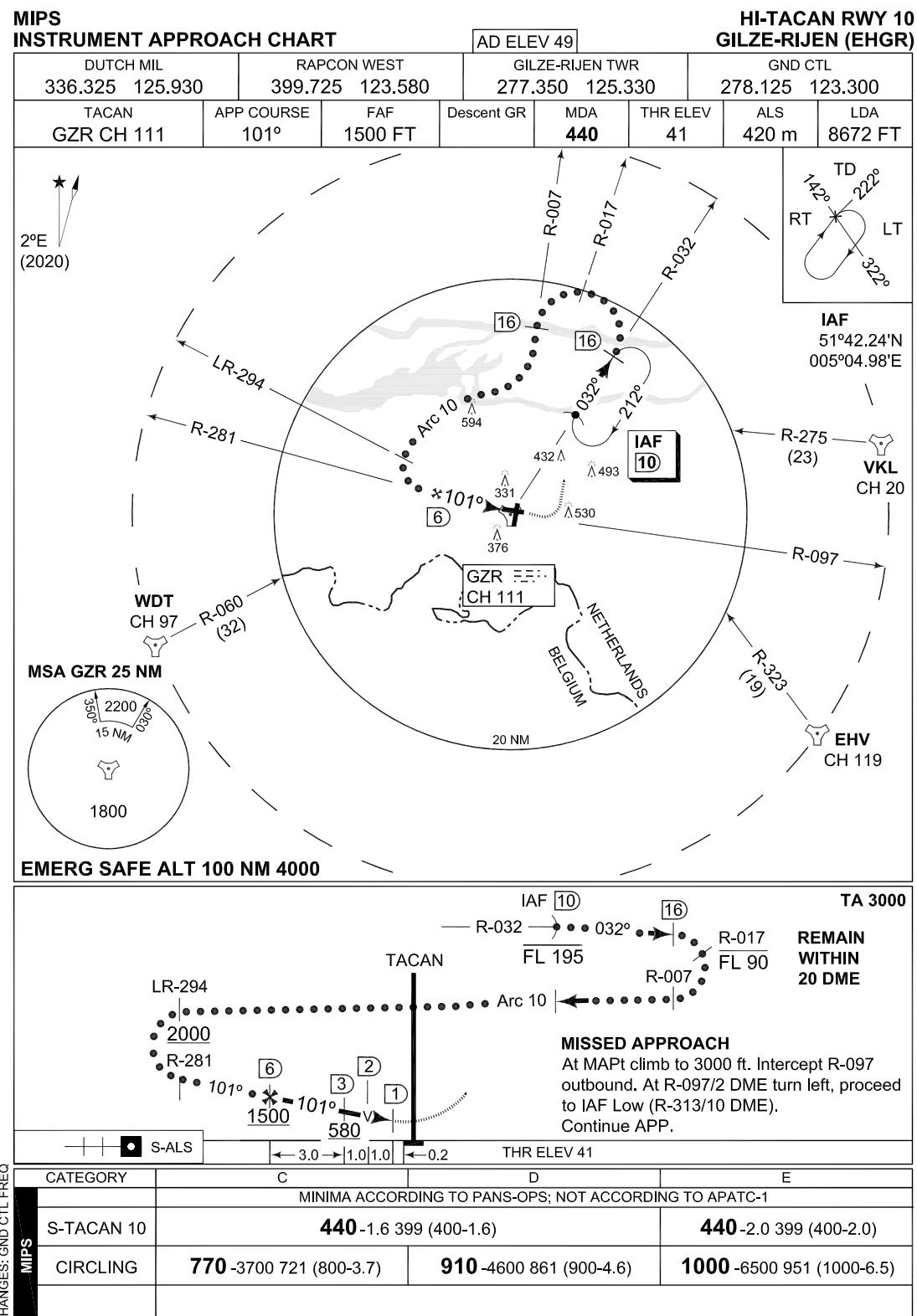


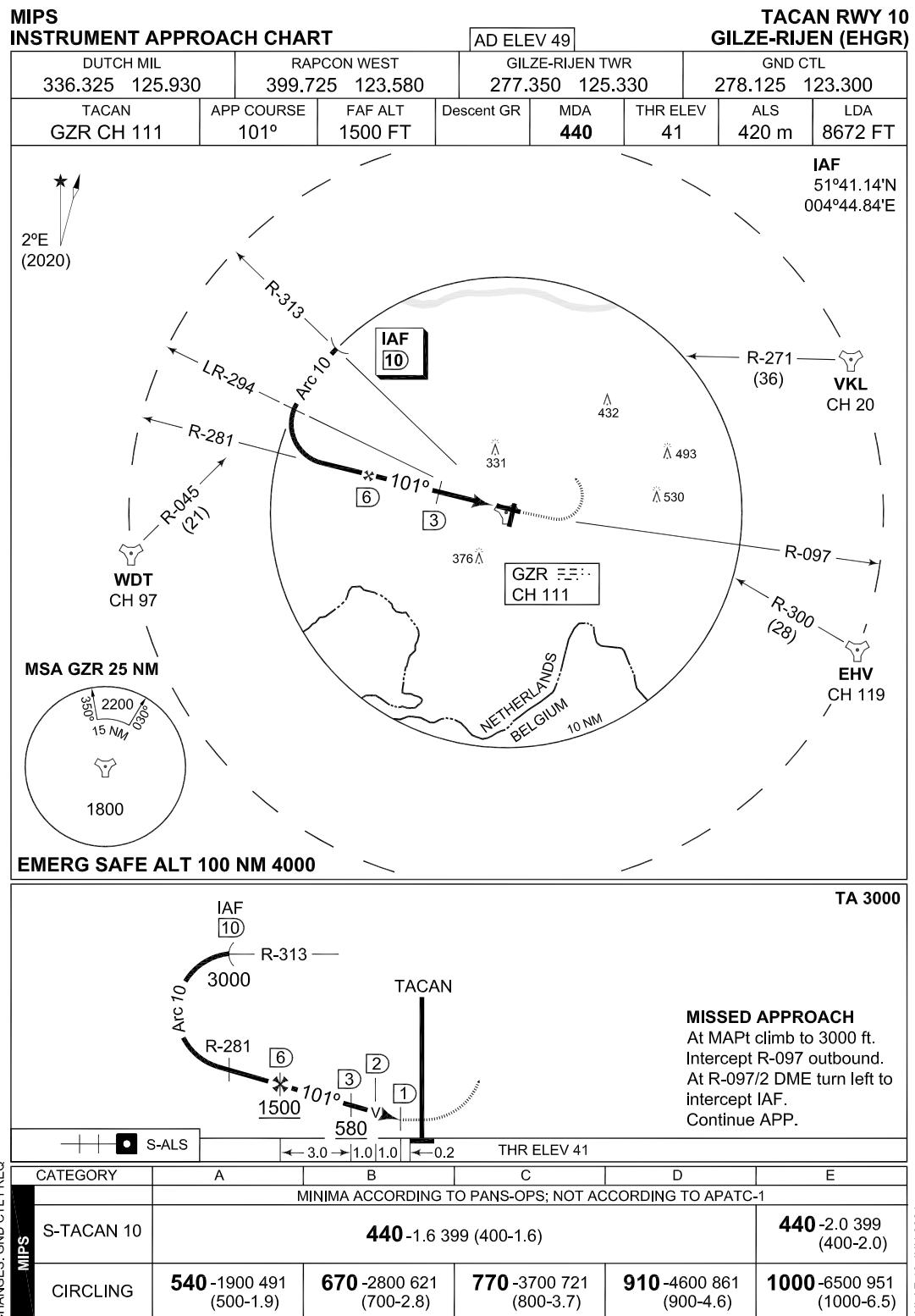


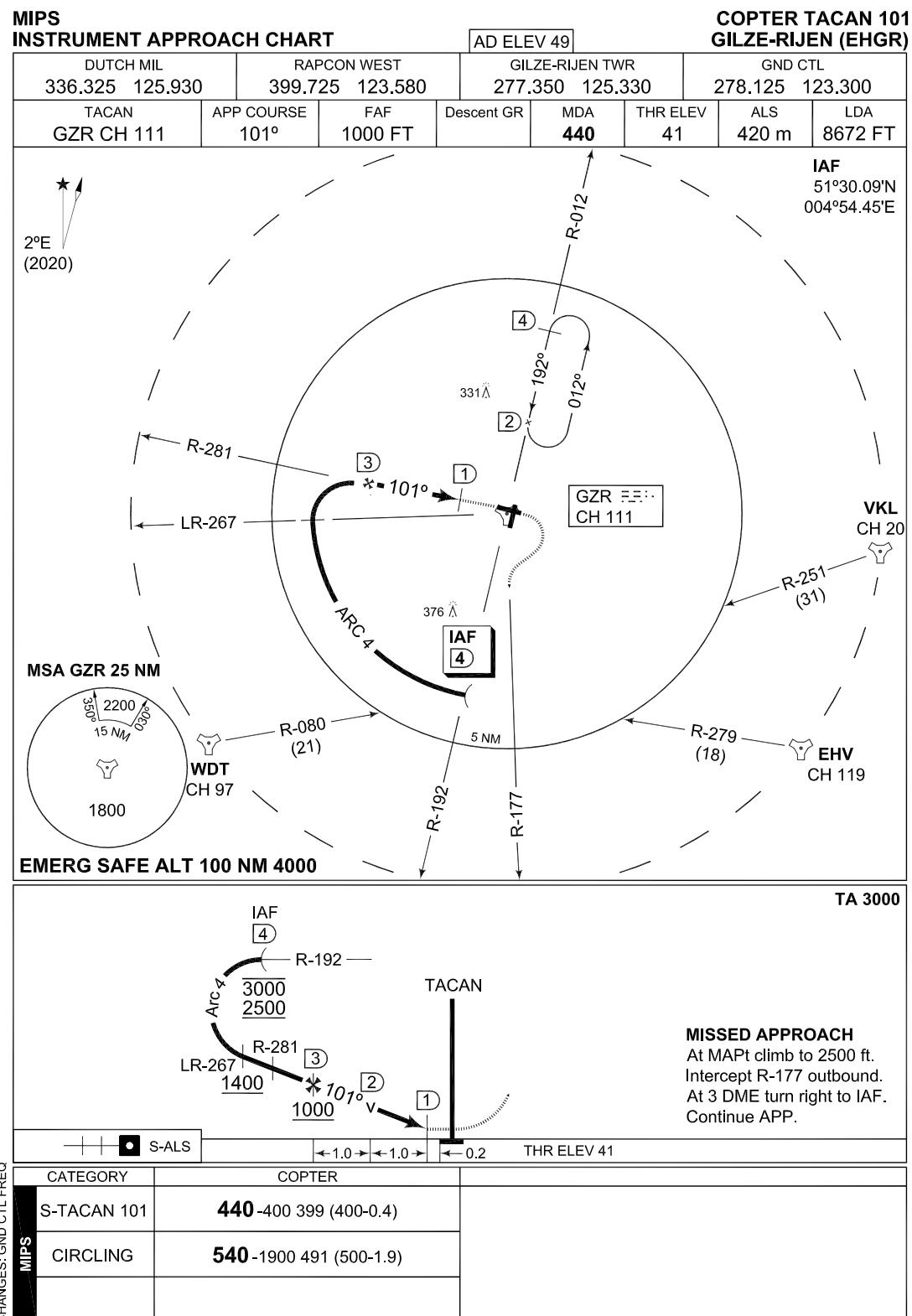


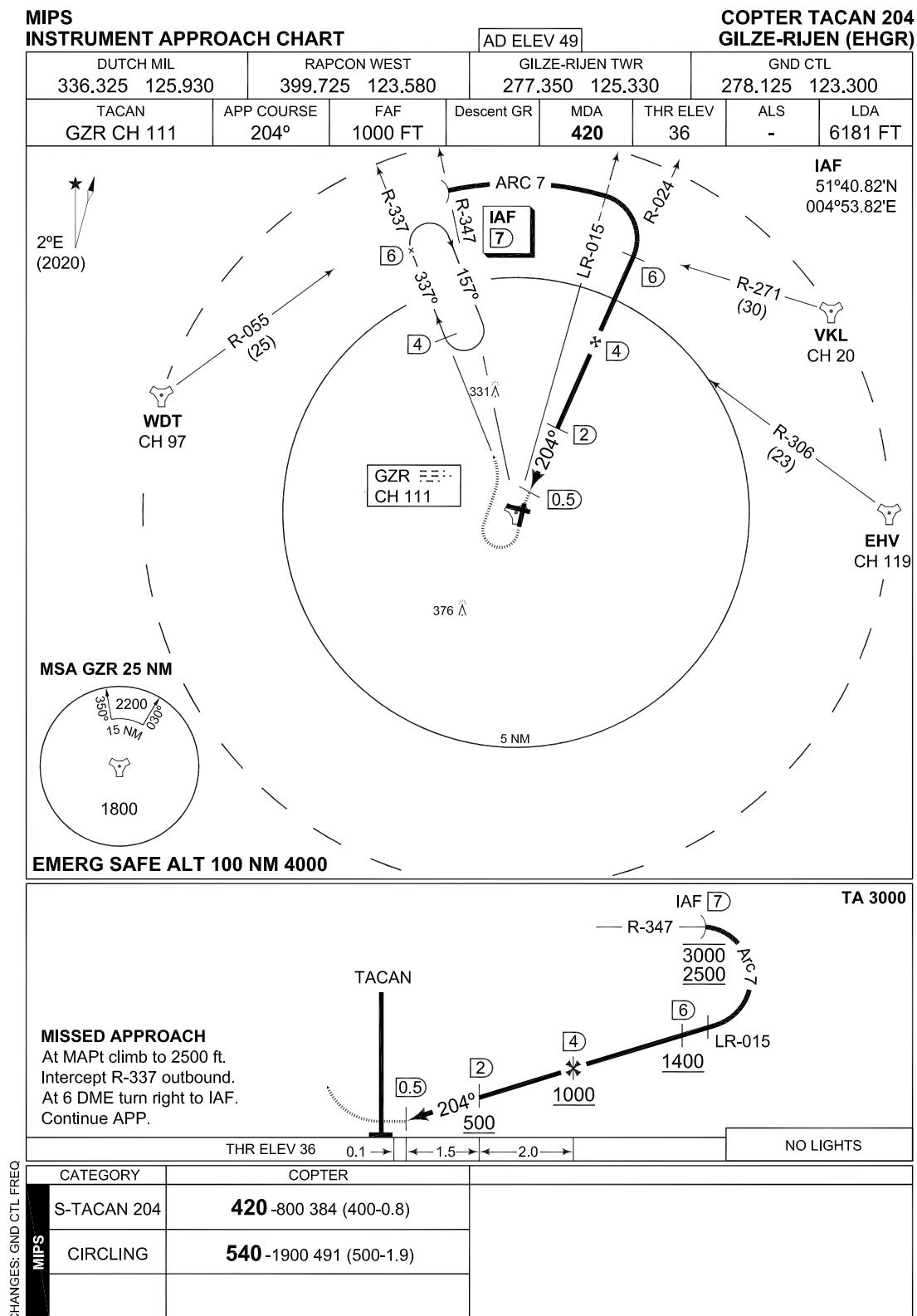
CHANGES: GND CTL FREQ

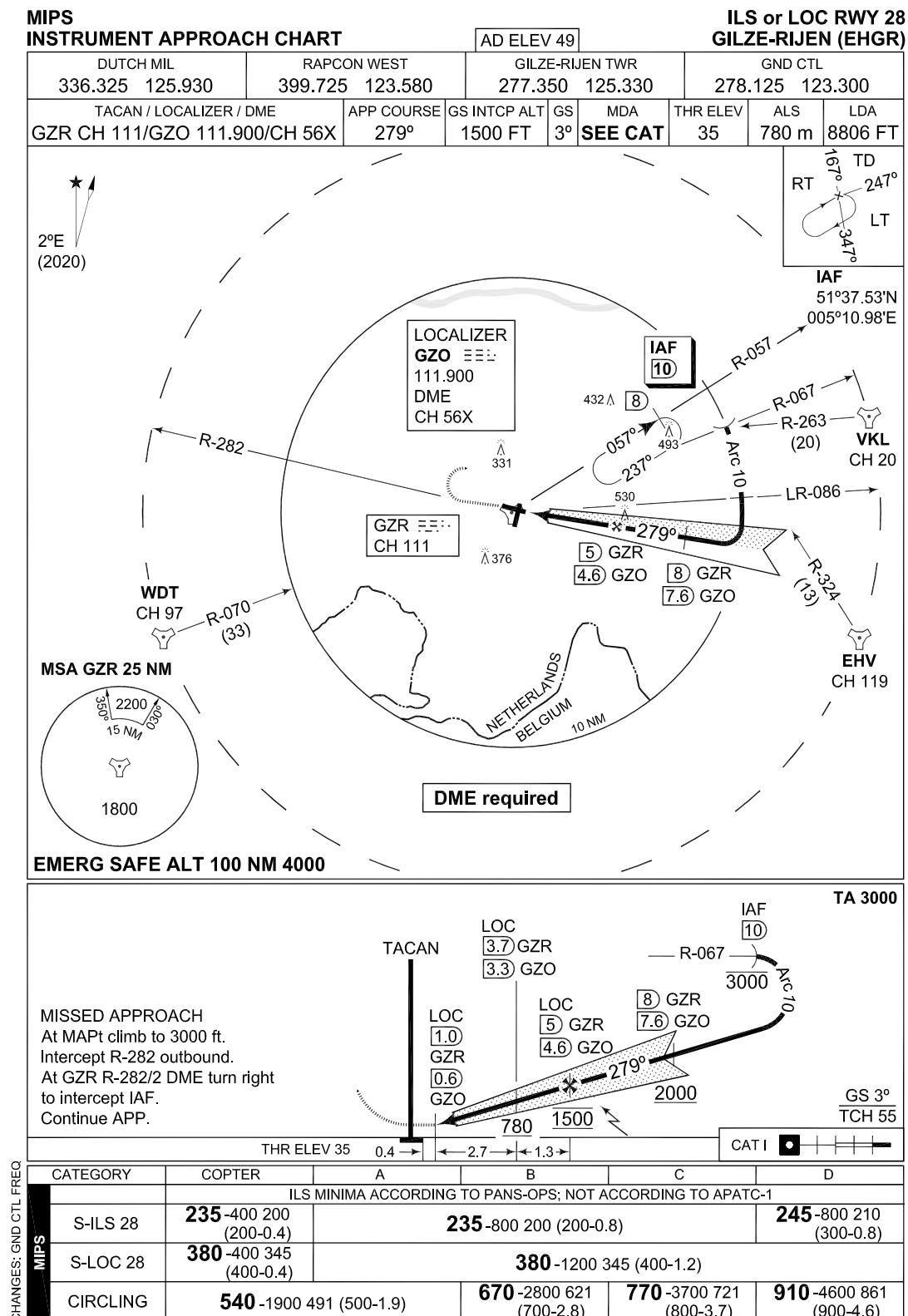
RNLAf 13 JUN 2024

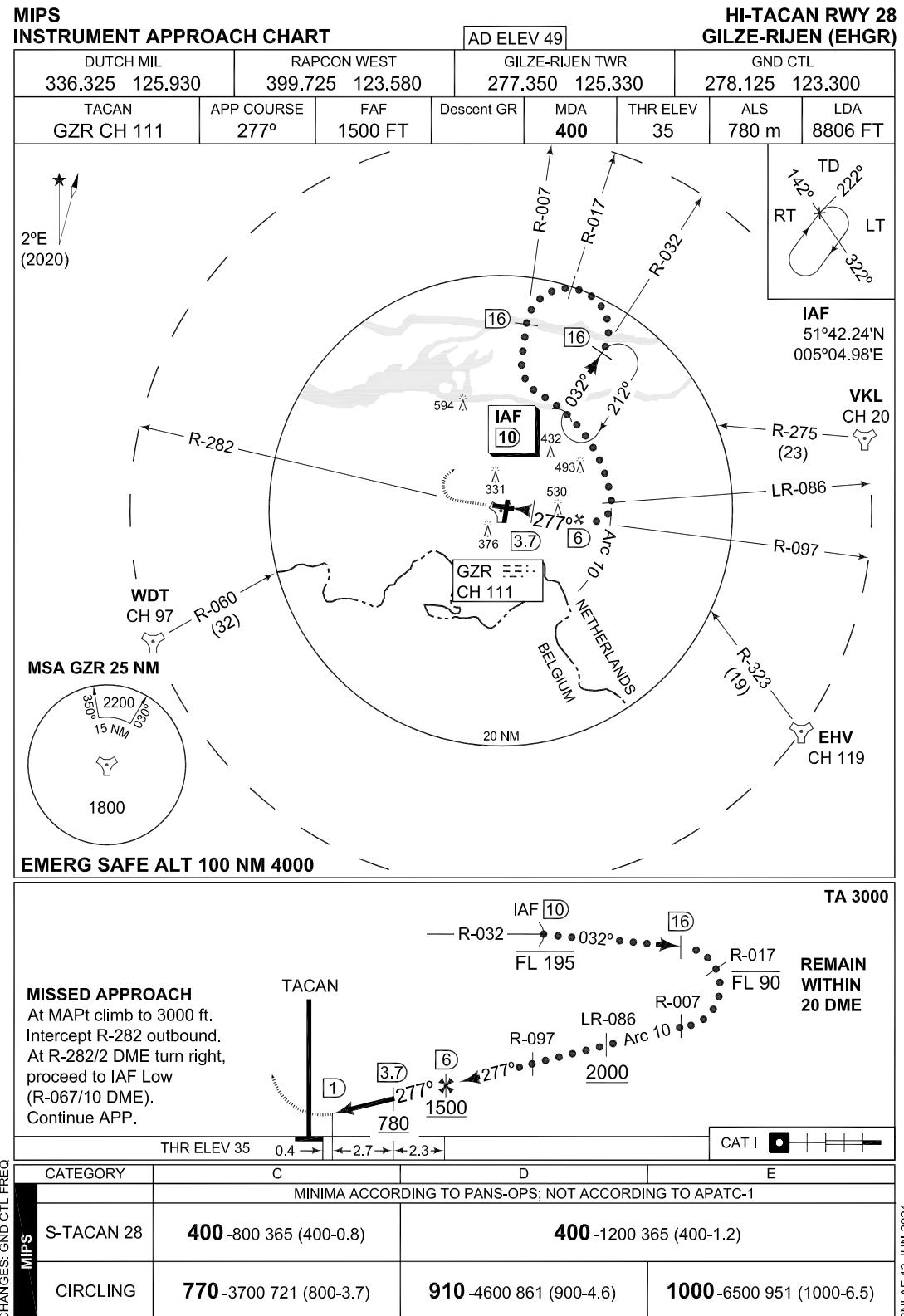


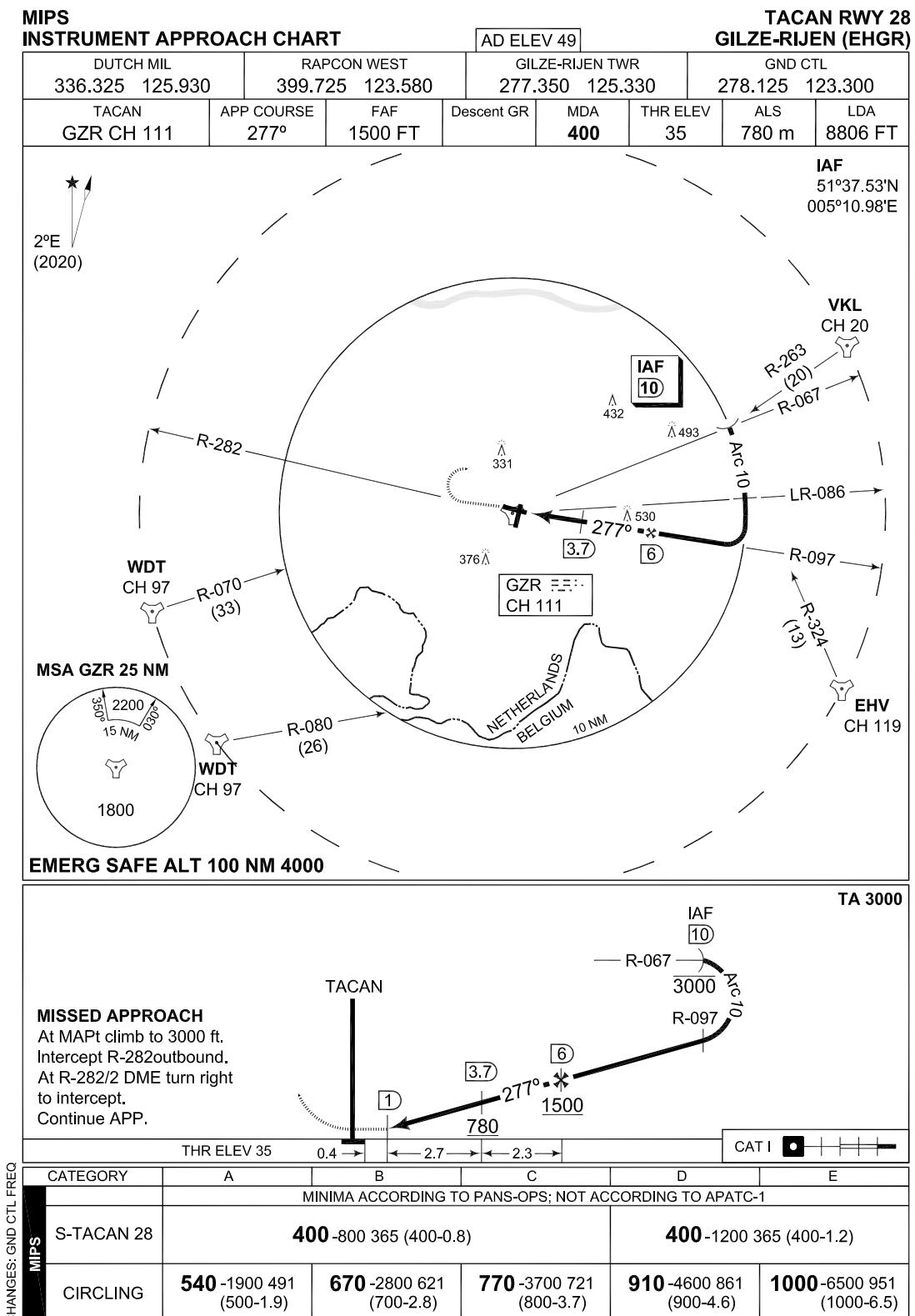


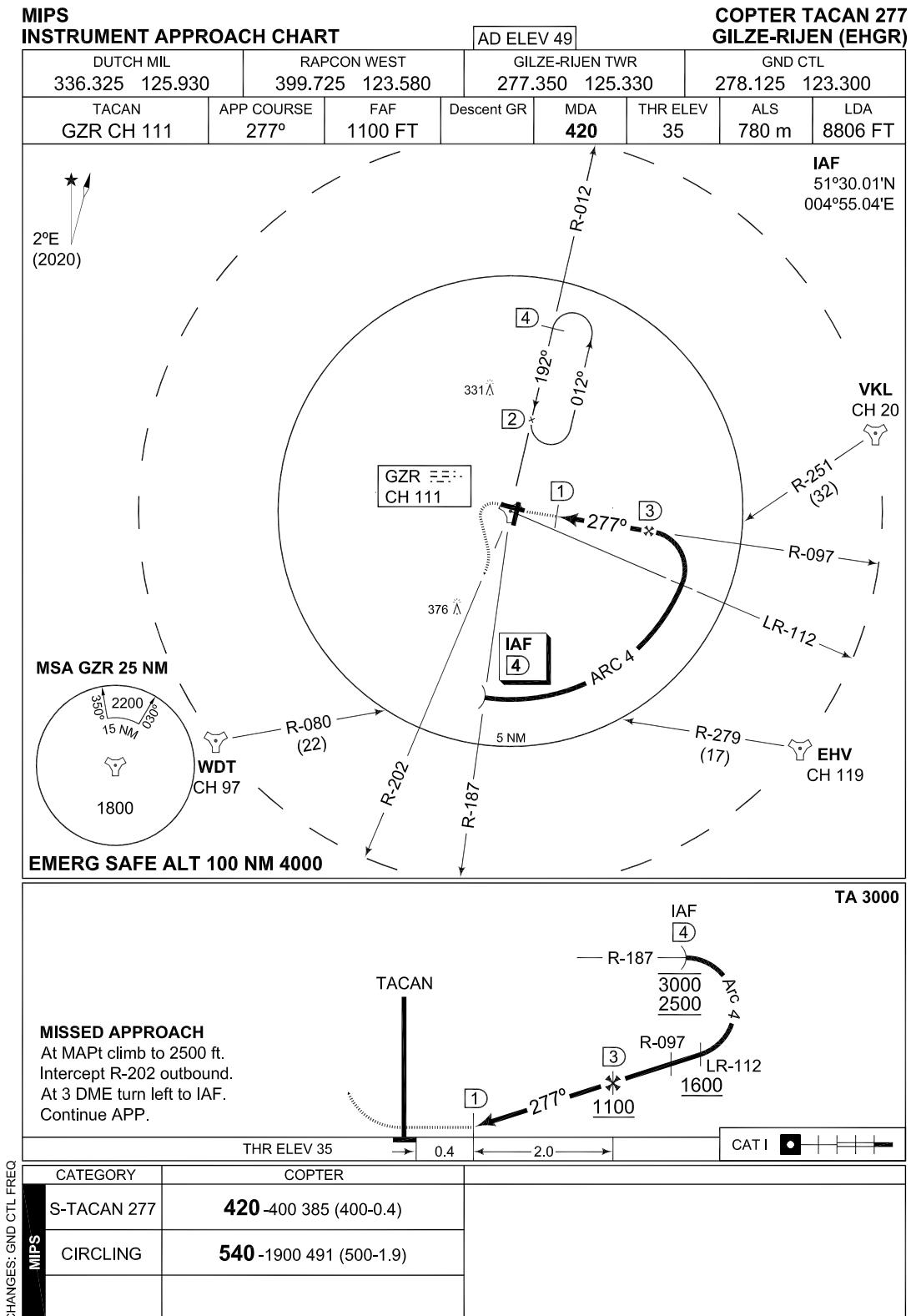












INTENTIONALLY LEFT BLANK

PART 3 – AERODROMES (AD)

AD 2.

AD 2. AERODROMES DE KOOY

DE KOOY

EHKD AD 2.1 Aerodrome location indicator and name

EHKD - De Kooy

EHKD AD 2.2 Geographical and administrative data

| | | |
|---|---|--|
| 1 | ARP | 52°55'25"N 004°46'50"E |
| 2 | Direction and distance from city | 172° MAG/2.9 NM DEN HELDER |
| 3 | Elevation/Reference temperature | + 4 ft AMSL/19.6° C (JUL) |
| 4 | MAG VAR/Annual change | 1°35'E (JAN 2020)/12'E |
| 5 | AD operating authority Postal address Visitors' address Telephone Airfield Manager Mon-Fri between 0700-1530 (0600-1430): ATC (AD OPR HR only): LCC (outside OPR HR): E-mail AFTN | DHC Maritiem Vliegkamp De Kooy MPC 10A P.O. Box 8762 4820 BB Breda Rijksweg 20 1780 CA Den Helder 088 - 9563130 088 - 9583310 088 - 9583300 vva.ehkd@mindef.nl EHKDZTZ |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | For CIV use see AIP Netherlands For request regarding UAS operations within EHKD CTR contact RPASdeKOOY@mindef.nl |

EHKD AD 2.3 Operational hours

| | | |
|----|----------------------------|--|
| 1 | AD OPR HR | Between April 1st and November 1st MON/THU 0700/0000 (0600/2300), FRI 0700/1530 (0600/1430) and between November 1st and April 1st MON/THU 0700/2200 (0600/2100), FRI 0700/1530 (0600/1430). |
| 2 | Customs and immigration | 30 MIN PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | See 2.23 para 5 |
| 5 | ATS Reporting Office (ARO) | See 2.23 para 5 |
| 6 | MET Briefing Office | Between April 1st and November 1st MON/THU 0500/0000 (0400/2300), FRI 0500/2100 (0400/2000) and between November 1st and April 1st MON/THU 0500/2200 (0400/2100), FRI 0500/2100 (0400/2000). SAT,SUN and HOL 0530/1100 (0430/1000) and 1330/1900 (1230/1800). |
| 7 | ATS | HO |
| 8 | Fuelling | HO |
| 9 | Handling | HO |
| 10 | Security | HO |
| 11 | De-icing | Not AVBL |
| 12 | Remarks | 1. AD CIV OPR HR MON/FRI 0600/2100 (0500/2000). SAT/SUN and legal HOL 0600/1100 (0500/1000) and 1400/1900 (1300/1800) 2. PPR see 2.23 para 2 3. Drone activities in harbor of Den Helder MON-FRI 0600-1430 details known by ATC |

EHKD AD 2.4 Handling services and facilities

| | | |
|---|--------------------------------|--------------------------------|
| 1 | Cargo-handling facilities | AVBL |
| 2 | Fuel/oil types | F-34 Oil, all regular types |
| 3 | Fuelling facilities/capacity | No Limitations |
| 4 | Oxygen | No |
| 5 | De-icing facilities/type | No |
| 6 | Starting units | DSA 150, ST 56 |
| 7 | Hangar space for visiting ACFT | O/R |
| 8 | Repair facilities | O/R |
| 9 | Remarks | Nil |

EHKD AD 2.5 Passenger facilities

| | | |
|---|--------------------|--|
| 1 | Remain overnight | AVBL O/R and also in Den Helder and surroundings |
| 2 | Medical facilities | Medical officer, ambulance, hospital in Den Helder and Alkmaar |
| 3 | Remarks | Nil |

EHKD AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|-------|
| 1 | AD category for fire fighting | CAT 7 |
| 2 | Remarks | Nil |

EHKD AD 2.7 Seasonal availability - clearing

| | | |
|---|----------------------------|--|
| 1 | Type of clearing equipment | Snowplough and snowsweeper |
| 2 | Clearance priorities | SAR-spot, RWY and MIL/CIV apron |
| 3 | Remarks | Caution advised during snow and ice conditions |

EHKD AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---|---|
| 1 | Apron surface and strength | Tarmac/concrete, MIL Apron PCN 35 F/A/W/T |
| 2 | TWY width, surface and strength | TWY DELTA : Width 12 m PCN 33 F/A/W/T TWY DELTA 1: Width 12 m PCN 38 F/A/W/T TWY DELTA 2: Width 12 m PCN 47 F/A/W/T TWY DELTA 2X: Width 9,50 m PCN 21 F/A/W/T TWY DELTA 4: Width 12 m PCN 47 F/A/W/T TWY LIMA : Width 12 m PCN 33 F/A/W/T TWY PAPA: Width 12 m PCN 42 F/A/W/T |
| 3 | Altimeter checkpoint location elevation | Location 1: MIL apron (52° 55'31"N 004°47'04"E) Elevation: 2 ft AMSL Location 2: TWY LIMA (52°55'17"N 004°46'54"E) Elevation: 2 ft AMSL |
| 4 | Remarks | Dummy deck: PCN: 37 F/A/W/T |

EHKD AD 2.9 Surface movement guidance and control system and markings

| | |
|-----------------------|---------|
| According STANAG 3158 | |
| 1 | Remarks |

EHKD AD 2.10 Aerodrome obstacles

see Aerodrome Chart.

EHKD AD 2.11 Meteorological information provided

| | | |
|---|---|--|
| 1 | Associated MET Office | De Kooy |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHKD 088-9563140 or mail CLSK.DHC.LVL.METEO.MetBriefe@mindef.nl Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHKD AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|---|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | PCN 03: 62 F/A/W/T 21: 62 F/A/W/T |

EHKD AD 2.13 Declared distances

| RWY designator | TORA (FT) | TODA (FT) | ASDA (FT) | LDA (FT) | Remarks |
|--|-----------|-----------|-----------|----------|-------------------------------------|
| 03 | 4184 | 4381 | 4184 | 3377 | Take-off from runway extremity |
| | | 2379 | | | Take-off from intersection with D3 |
| | | 1924 | | | Take-off from intersection with D2X |
| | | 1418 | | | Take-off from intersection with D2 |
| 21 | 3789 | 3986 | 3789 | 3334 | Take-off from runway extremity |
| | | 2861 | | | Take-off from intersection with D2 |
| | | 2347 | | | Take-off from intersection with D2X |
| | | 1909 | | | Take-off from intersection with D3 |
| For determination of the datum line for an intersection take-off, see EHKD AD 2.23 paragraph 6 | | | | | |

EHKD AD 2.14 Approach and runway lighting

| According STANAG 3316 | | |
|-----------------------|-------------------|--|
| 1 | Approach lighting | RWY 21: CAT I. 870 m RWY 03: S-ALS. 360 m |
| 2 | RWY lighting | VHI |
| 3 | PAPI | Situated on the left side of both RWYs |
| 4 | Remarks | Nil |

EHKD AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|-------------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | VB |
| 3 | Emergency RWY lighting | No |
| 4 | Emergency TWY edge lighting | No |
| 5 | Secondary power supply/switch-over | AVBL, switch over time 15 seconds |
| 6 | Remarks | Anemometer in front of TWR, lighted |

EHKD AD 2.16 Helicopter landing area

| Helipad 1 | | |
|-----------|---|---|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'40"N 004°47'08"E Located on runway in pre-threshold area RWY 21 |
| 2 | TLOF and/or FATO elevation FT | 3 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 20 M x 20 M, CONC, PCN 62/F/A/W/T, White edges and white letter "H" and white identification number "1" |
| 4 | true bearing of FATO | 034° / 214° |
| 5 | Declared distances available | 43 M to end of runway pavement in direction 03, 1233 M to runway end in direction 21 |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Surface beyond FATO is RWY which extends to a width of 30 M |

| Helipad 2 | | |
|-----------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'30"N 004°46'56"E Located on runway at intersection D2 |
| 2 | TLOF and/or FATO elevation FT | 3 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 20 M x 20 M, ASPH, PCN 62/F/A/W/T, White edges and white identification number "2" |
| 4 | true bearing of FATO | 034° / 214° |
| 5 | Declared distances available | 418 M to end of runway pavement in direction 03, 857 M to runway end in direction 21 |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Surface beyond FATO is RWY which extends to a width of 30 M, Marking non-standard due to touchdown zone marking RWY 21 |

| Helipad 3 | | |
|-----------|---|---|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'25"N 004°46'50"E Located on runway in vicinity of intersection D2X |
| 2 | TLOF and/or FATO elevation FT | 3 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 20 M x 20 M, ASPH, PCN 62/F/A/W/T, White edges and white letter "H" and white identification number "3" |
| 4 | true bearing of FATO | 034° / 214° |
| 5 | Declared distances available | 622 M to end of runway pavement in direction 03, 654 M to runway end in direction 21 |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Surface beyond FATO is RWY which extends to a width of 30 M |

| Helipad 4 | | |
|-----------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'18"N 004°46'43"E Located on runway in vicinity of aiming point marking RWY 03 |
| 2 | TLOF and/or FATO elevation FT | 3 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 20 M x 20 M, ASPH, PCN 62/F/A/W/T, White edges and white identification number "4" |
| 4 | true bearing of FATO | 034° / 214° |
| 5 | Declared distances available | 865 M to end of runway pavement in direction 03, 410 M to runway end in direction 21 |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Surface beyond FATO is RWY which extends to a width of 30 M, Marking non-standard due to aiming point marking RWY 03 |

| Helipad 5 | | |
|-----------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'14"N 004°46'45"E Located on TWY D |
| 2 | TLOF and/or FATO elevation FT | 3 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 25 M x 25 M, ASPH, PCN 62/F/A/W/T, White edges and white identification number "5" |
| 4 | true bearing of FATO | 034° / 214° |
| 5 | Declared distances available | 400 M both directions |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Surface beyond FATO is extends to a width of 30 M, TLOF Lighting |

| Helipad 6 | | |
|-----------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'11"N 004°46'46"E Located on grass area A north of TWY P |
| 2 | TLOF and/or FATO elevation FT | 2 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 30 M x 30 M, grass fitted with reinforcing grass paving grids, PCN not AVBL, edges and "H" created with less conspicuous marking by use of concrete pavement |
| 4 | true bearing of FATO | 170° / 350° |
| 5 | Declared distances available | Information not available |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | |

| Helipad 7 | | |
|-----------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'00"N 004°46'56"E Located on southeast corner of grass area A |
| 2 | TLOF and/or FATO elevation FT | 1 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 30 M x 30 M, grass fitted with reinforcing grass paving grids, PCN not AVBL, edges and "H" created with less conspicuous marking by use of concrete pavement |
| 4 | true bearing of FATO | 090° / 270° |
| 5 | Declared distances available | Information not available |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | |

| Dummydeck | | |
|-----------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'02"N 004°46'48"E Located on south part of grass area A |
| 2 | TLOF and/or FATO elevation FT | 2 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 63 M x 26 M, CONC, PCN 37 F/A/ W/T, marking consistent with naval vessel 2 landing spots |
| 4 | true bearing of FATO | NIL |
| 5 | Declared distances available | Information not available |
| 6 | APCH and FATO lighting | Lighting consistent with naval vessel |
| 7 | Remarks | |

| Slope | | |
|-------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | |
| 2 | TLOF and/or FATO elevation FT | inconsistent due to sloped area |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | grass fitted with reinforcing grass paving grids, PCN not AVBL, no marking |
| 4 | true bearing of FATO | NIL |
| 5 | Declared distances available | NIL |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Sloped exercise landing area 5° an 10° |

EHKD AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|--|
| 1 | Designation and lateral limits | DE KOOY CTR 52°59'13.58"N 004°55'32.06"E; along clockwise arc (radius 6.5 NM, centre 52°55'25.00"N 004°46'50.00"E) to 53°01'42.82"N 004°49'26.26"E; 53°02'11.88"N 004°49'38.31"E; along clockwise arc (radius 7 NM, centre 52°55'25.00"N 004°46'50.00"E) to 52°59'31.13"N 004°56'12.28"E; to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially De Kooy TWR. English Outside HO DUTCH MIL INFO FREQ 132.350 MHZ. |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Caution: EHR 8 is active MON-THU 0700-2300 (0600-2200), FRI 0700-1600 (0600-1500), or activated by NOTAM. Request ATC for crossing clearance. |

EHKD AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|---------------------------------|--|-------|---------------------------------|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | De Kooy Tower | 120.130*) 122.100 379.750*) 257.800 | HO | *) Primary FREQ |
| GND CTL | De Kooy Ground De Kooy Tower | 121.730 379.750 | HO | |
| APP | De Kooy Arrival | 124.230*) 372.150*) | HO | |
| | De Kooy Final | 123.305 359.100 | HO | SSR only |
| | ATIS | 133.010 | H24 | |

EHKD AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|------------------|-----|-------------------|-------|---------------------------------|---|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| DME | HDR | 115.550 CH102Y | H24 | 52°54'24.68"N 004°45'56.60"E | 120 NM/FL 250 90 NM/FL 250 BTN 015/150° MAG | 210° MAG 0.9 DME from THR RWY 03 |
| ILS LOCALIZER | DKY | 108.900 | H24 | 52°55'04.99"N 004°46'28.51"E | | |
| GLIDEPATH | | 329.300 | H24 | 52°55'28.66"N 004°46'47.38"E | | |
| DME | DKY | CH26X | H24 | 52°55'28.66"N 004°46'47.38"E | | DME reading at THR RWY21: 0.2 NM |

EHKD AD 2.20 Local traffic regulations

1. Intensive training operations with helicopter and light aircraft. Light aircraft and model flying daily outside OPR HR. Glider site Wieringermeer is located 8NM SE of ARP, just outside CTR/RMZ.
2. VFR traffic crossing the CTR shall be carried out via the VFR reporting points (see visual approach chart) at 1500 ft AMSL, unless otherwise instructed or approved by ATC.
3. Visual traffic circuit: RWY 03 right-hand 1000 ft AMSL; RWY 21 left-hand 1000 ft AMSL.
4. Overflying the gas plant (0.5 NM east of ARP) is prohibited

EHKD AD 2.21 Noise abatement procedures

ARR + DEP procedures are according standard VFR/IFR routes. Avoid overflying of Den Helder (2 NM NNW of ARP) and built-up areas as much as possible.

Avoid overflying camping southeast of FOXTROT below 1500 ft AMSL (see AIP Netherlands EHKD AD 2.21).

Due to noise abatement over Julianadorp RNP Y RWY 03 only available when reported cloud-base is below 500 ft.

EHKD AD 2.22 Flight procedures

IFR procedures

The IAP and SID procedures are established in accordance with STANAG 3759 and AATCP-1.

RNP Z approach RWY 03 (offset)

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA(° TCH (ft) | NAV spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | NIXCO | - | - | - | - | - | + 2000 | - | - | - |
| 002 | TF | EDFOS | - | 070 (072.0) | - | 3.0 | - | - | - | - | RNAV1 |
| 003 | IF | ASTUW | - | - | - | - | - | + 2000 | - | - | - |
| 004 | TF | KD441 | - | 259 (260.4) | - | 1.9 | - | + 2000 | - | - | RNAV1 |
| 005 | TF | EDFOS | - | 279 (280.7) | - | 2.0 | - | + 2000 | - | - | RNAV1 |
| 006 | IF | EDFOS | - | - | - | - | - | + 2000 | - | - | - |
| 007 | TF | KD442 | - | 009 (010.6) | - | 3.0 | - | + 2000 | | | RNAV1 |
| 008 | TF | HDR MAPt | Y | 009 (010.6) | - | 5.2 | - | - | - | -3.00/50 | RNP APCH |
| 009 | CA | - | - | 009 (010.6) | - | - | - | +1000 | - | - | RNP APCH |
| 010 | DF | KD444 | Y | | - | - | R | - | - | - | RNP APCH |
| 011 | DF | HDR | - | - | - | - | R | @2000 | - | - | RNP APCH |

RNP Y approach RWY 03

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA(° TCH (ft) | NAV spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | NOFUD | - | - | - | - | - | + 2000 | - | - | - |
| 002 | TF | KOPFA | - | 032 (033.8) | - | 3.0 | - | + 1200 | - | - | RNAV1 |
| 003 | IF | FEWEX | - | - | - | - | - | + 2000 | - | - | - |
| 004 | TF | KOPFA | - | 102 (103.8) | - | 3.0 | - | + 1200 | - | - | RNAV1 |
| 005 | IF | TAFTU | - | - | - | - | - | + 2000 | - | - | - |
| 006 | TF | KOPFA | - | 322 (323.8) | - | 3.0 | - | + 1200 | - | - | RNAV1 |
| 007 | IF | KOPFA | - | - | - | - | - | + 1200 | - | - | - |
| 008 | TF | KD445 | - | 032 (033.8) | 2.5 | 2.5 | - | + 1200 | - | - | RNP APCH |
| 009 | TF | THR03 | Y | 032 (033.8) | - | 2.9 | - | - | - | -3.72/50 | RNP APCH |
| 010 | CA | - | - | 032 (033.8) | - | - | - | +1000 | - | - | RNP APCH |
| 011 | DF | KD444 | Y | - | - | - | R | - | - | - | RNP APCH |
| 012 | DF | HDR | - | - | - | - | R | @2000 | - | - | RNP APCH |

FAS DATA BLOCK - RNP Y RWY 03

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHKD |
| Runway | 03 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Y |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E03A |
| LTP/FTP Latitude | 525511.1730N |
| LTP/FTP Longitude | 0044635.3850E |
| LTP/FTP Ellipsoidal Height (metres) | 43.0 |
| FPAP Latitude | 525538.4540N |
| Delta FPAP Latitude (seconds) | 27.2810 |
| FPAP Longitude | 0044705.7330E |
| Delta FPAP Longitude (seconds) | 30.3480 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.72 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 04 0B 08 05 03 C8 00 01 33 30 05 8A F0 B5 16 F2 C2 0C 02 AE 15 22 D5 00 18 ED 00 F4 01 74 01 64 00 C8 AF 3E 74 39 A7 |
| Calculated CRC Value | 3E7439A7 |
| Supplied CRC Value | 3E7439A7 |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|-----|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 0.8 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

RNP Z approach RWY 21

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA(° TCH (ft)) | NAV spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|-----------------|----------|
| 001 | IF | PUFLA | - | - | - | - | - | + 2000 | - | - | - |
| 002 | TF | KD451 | - | 122 (124.0) | - | 4.5 | - | + 2000 | - | - | RNAV1 |
| 003 | TF | ZOJIK | - | 122 (124.0) | - | 3.0 | - | + 1700 | - | - | RNAV1 |
| 004 | IF | JOPFI | - | - | - | - | - | + 2000 | - | - | - |
| 005 | TF | ZOJIK | - | 302 (304.0) | - | 3.0 | - | + 1700 | - | - | RNAV1 |
| 006 | IF | FAFLO | - | - | - | - | - | + 2000 | - | - | - |
| 007 | TF | ZOJIK | - | 212 (214.0) | - | 3.0 | - | + 1700 | - | - | RNAV1 |
| 008 | IF | ZOJIK | - | - | - | - | - | + 1700 | - | - | - |
| 009 | TF | KD452 | - | 212 (214.0) | - | 3.0 | - | + 1700 | - | - | RNP APCH |
| 010 | TF | THR21 | Y | 212 (214.0) | - | 5.2 | - | - | - | -3.00/50 | RNP APCH |
| 011 | CA | KD453 | Y | 212 (214.0) | - | - | - | +500 | - | - | RNP APCH |
| 012 | DF | - | - | - | - | - | L | - | - | - | RNP APCH |
| 013 | DF | HDR | - | - | - | - | R | @2000 | -120 | - | RNP APCH |

FAS DATA BLOCK - RNP Z RWY 21

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHKD |
| Runway | 21 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Z |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E21A |
| LTP/FTP Latitude | 525535.0820N |
| LTP/FTP Longitude | 0044701.9810E |
| LTP/FTP Ellipsoidal Height (metres) | 42.8 |
| FPAP Latitude | 525507.4490N |
| Delta FPAP Latitude (seconds) | -27.6330 |
| FPAP Longitude | 0044631.2450E |
| Delta FPAP Longitude (seconds) | -30.7360 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.00 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 04 0B 08 05 15 D0 00 01 31 32 05 54 AB B6 16 BA 92 0D 02 AC 15 1E 28 FF E0 0F FF F4 01 2C 01 64 00 C8 AF 02 C1 6B ED |
| Calculated CRC Value | 02C16BED |
| Supplied CRC Value | 02C16BED |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|-----|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 0.6 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

RNP Y approach RWY 21

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA(° TCH (ft)) | NAV spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|-----------------|----------|
| 001 | IF | LOCFU | - | - | - | - | - | + 2000 | - | - | - |
| 002 | TF | KD454 | - | 122 (124.0) | - | 5.0 | - | + 1500 | - | - | RNAV1 |
| 003 | TF | HOXZA | - | 122 (124.0) | - | 2.0 | - | + 1200 | - | - | RNAV1 |
| 004 | IF | YOJUP | - | - | - | - | - | + 2000 | - | - | - |
| 005 | TF | HOXZA | - | 302 (304.0) | - | 3.0 | - | + 1200 | - | - | RNAV1 |
| 006 | IF | GOHEM | - | - | - | - | - | + 2000 | - | - | - |
| 007 | TF | HOXZA | - | 212 (214.0) | - | - | - | + 1200 | - | - | RNAV1 |
| 008 | IF | HOXZA | - | - | - | - | - | + 1200 | - | - | - |
| 009 | TF | KD455 | - | 212 (214.0) | - | 2.8 | - | + 1200 | - | - | RNP APCH |
| 010 | TF | THR21 | Y | 212 (214.0) | - | 2.4 | - | - | - | -4.50/50 | RNP APCH |
| 011 | CA | - | - | 212 (214.0) | - | - | - | + 500 | - | - | RNP APCH |
| 012 | DF | KD453 | Y | - | - | - | L | - | - | - | RNP APCH |
| 013 | DF | HDR | - | - | - | - | R | @2000 | - | - | RNP APCH |

FAS DATA BLOCK RNP Y RWY 21

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHKD |
| Runway | 21 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Y |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E21B |
| LTP/FTP Latitude | 525535.0820N |
| LTP/FTP Longitude | 0044701.9810E |
| LTP/FTP Ellipsoidal Height (metres) | 42.8 |
| FPAP Latitude | 525507.4490N |
| Delta FPAP Latitude (seconds) | -27.6330 |
| FPAP Longitude | 0044631.2450E |
| Delta FPAP Longitude (seconds) | -30.7360 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 4.50 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 04 0B 08 05 15 C8 00 02 31 32 05 54 AB B6 16 BA 92 0D 02 AC 15 1E 28 FF E0 0F FF F4 01 C2 01 64 00 C8 AF 7B 17 85 05 |
| Calculated CRC Value | 7B178505 |
| Supplied CRC Value | 7B178505 |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|-----|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 0.6 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

VFR procedures

APPROACH PROCEDURES:

Contact De Kooy TWR 2 minutes before reaching the CTR BDRY, for permission to enter the CTR. Unless otherwise instructed, enter the CTR via designated reporting points at 1500 ft and maintain. Descent to circuit altitude according the joining procedure which will be instructed by ATC.

- a. Overhead joining. Report overhead, join downwind and descent to 1000 ft.
- b. Direct joining (ATC discretion only). After passing one of the following reporting points (Hotel, Bravo, Romeo or Foxtrot) join the circuit and descent to circuit altitude as instructed by ATC.

The following arrivals have been established.

- a. Whiskey arrival: proceed via Whiskey to Hotel.
- b. Oscar arrival: proceed via Oscar to Hotel.
- c. Echo arrival: proceed via Echo to Bravo.
- d. Zulu arrival: proceed via Zulu to Romeo.

ATC discretion only, when EHR 8 (partly) inactive.

- e. Foxtrot arrival: at CTR BDRY proceed to Foxtrot.
- f. Mike arrival: at CTR BDRY proceed via Mike to Hotel.

(see visual local map)

DEPARTURE PROCEDURES:

Unless otherwise instructed or approved climb after take-off to 1000 ft. The following departures have been established.

- a. Whiskey departure: proceed via Hotel to Whiskey.
- b. Oscar departure: proceed via Hotel to Oscar.
- c. Echo departure: proceed via Bravo to Echo.
- d. Zulu departure: proceed via Romeo to Zulu.

ATC discretion only, when EHR 8 (partly) inactive:

- e. Foxtrot departure: proceed via Foxtrot to CTR BDRY.
- f. Mike departure: proceed via Hotel and Mike to CTR BDRY.

Leave the CTR via the designated reporting points.

REPORTING POINTS in degrees, minutes and seconds:

The following reporting points have been established (see local map):

- Hotel: 200 m north-east of the Drydock
52°57'52"N 004°48'12"E).
- Bravo: Intersection Zandvaart/Balgzandkanaal
52°54'08"N 004°49'58"E).
- Echo: South-east bank of Amstelmeer
52°52'19"N 004°56'08"E).
- Romeo: Intersection N9 - Callantsoogervaart
52°52'36"N 004°46'06"E).
- Zulu: Bridge de Stolpen - N9 - Noordhollandskanaal
52°48'52"N 004°44'25"E).
- Foxtrot: Intersection Middenvliet/Zanddijk
52°55'02"N 004°43'15"E).
- Whiskey: Car park near beach Jan Ayeslag
53°02'21"N 004°42'58"E).

Oscar: Fort de Schans
53°01'56"N 004°49'36"E).

Mike: North-east corner of sandbank Noorderhaaks
52°58'50"N 004°41'37"E).

CIRCUIT PROCEDURES:

Circuit ALT 1000 ft. RWY 21 L/H circuit RWY 03 R/H circuit. Landing direction 270°, 090°, 350° and 170° may be used for HEL flying, circuit direction as instructed by ATC.

Low visibility procedures

During periods of low visibility the overall ATC capacity could be reduced. To guarantee aircraft safety and optimal use of ATC capacity, De Kooy uses Low Visibility Procedures.

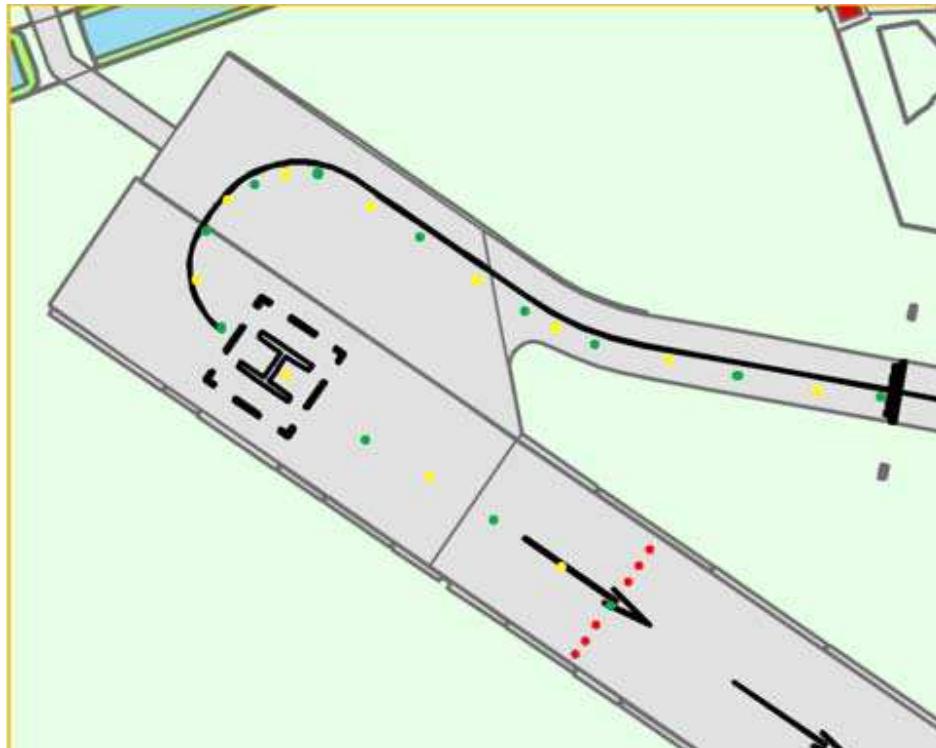
| Phase | Conditions | Procedure |
|-------|---|---|
| A | RVR \leq 1500 m and/or ceiling \leq 300ft | All WIP on airside will be terminated. Separation between landing aircraft will be increased to 8 nm. No opposite runway take-off and landings. |
| B | RVR < 550 m | Departures only. No simultaneous ground movements. |
| C | RVR < 300 m | The airport is below operational minima for arriving and departing aircraft. |

EHKD AD 2.23 Additional information

1. DISPLACED RUNWAY END RWY 03:

After landing RWY 03, passing the runway end lights at taxiing speed is allowed. Beyond the runway end lights the pavement is classified as taxiway and equipped with alternating green/yellow centre line lights up to exit D1.

Take-off RWY 21 is allowed from the runway extremity.



2. EHR8 (prohibited/gunfiring) extending in the CTR. The eastboundary is east of the dunes.

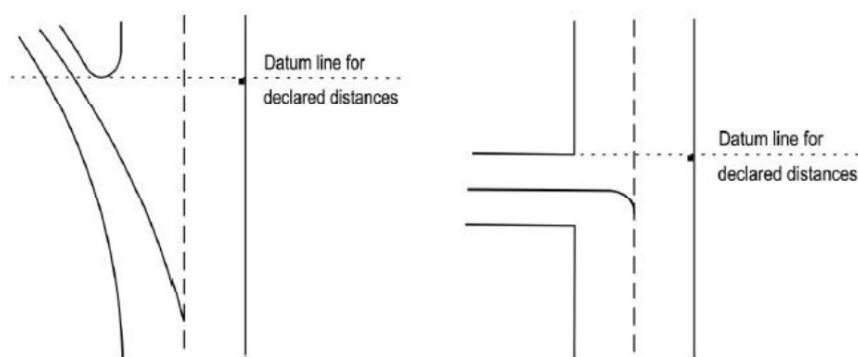
3. PPR: for PPR Request contact:

LCC De Kooy Flight Information Office via e-mail: DHC.LCC.MVKK@mindef.nl

Requests must contain the following information.

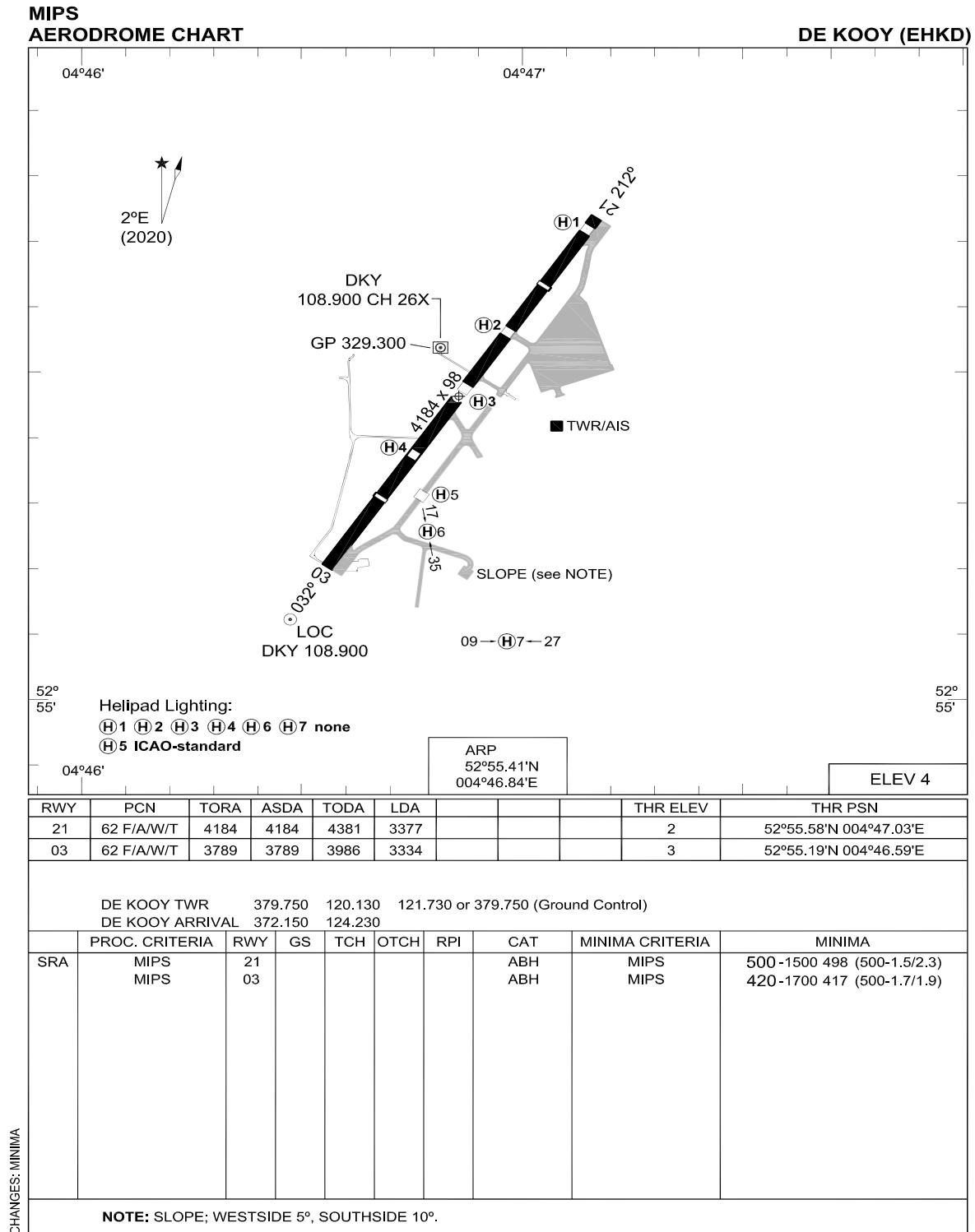
- a. Inbound De Kooy for practice approaches only or full stop landing.
- b. Name and phonenumber concerning person of contact.
- c. Call sign and/or ACFT registration.
- d. Type of ACFT.
- e. DOF (Date Of Flight).
- f. Aerodrome of departure.
- g. ETA (Estimated Time of Arrival) at De Kooy.
- h. ETD (Estimated Time of Departure) from De Kooy.
- i. Aerodrome of arrival.
- j. Name of aircraft operator. Incomplete requests will NOT be considered.
A standard request form may be obtained through previously mentioned e-mail address.

4. When intending a full stop landing at de Kooy please also include if refuel, hangar space, accommodation or other is required.
5. AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.
Tel: +31(0)20 4062840
Tel: +31(0)20 4062841
E-mail: aocs.fdno@mindef.nl
AFTN: EHMCZPZX
avlbl H24
6. DETERMINATION OF DATUM LINE FOR INTERSECTION TAKE-OFF
The datum line from which the reduced runway declared distances for take-off should be determined is defined by the intersection of the downwind edge of the specific taxiway with the runway edge as shown in the diagram below. The loss of runway length due to alignment of the aircraft prior to take-off should be taken into account by the operators for the calculation of the aircraft's take-off mass (ICAO Annex 6, Part 1, paragraph 5.2.8)



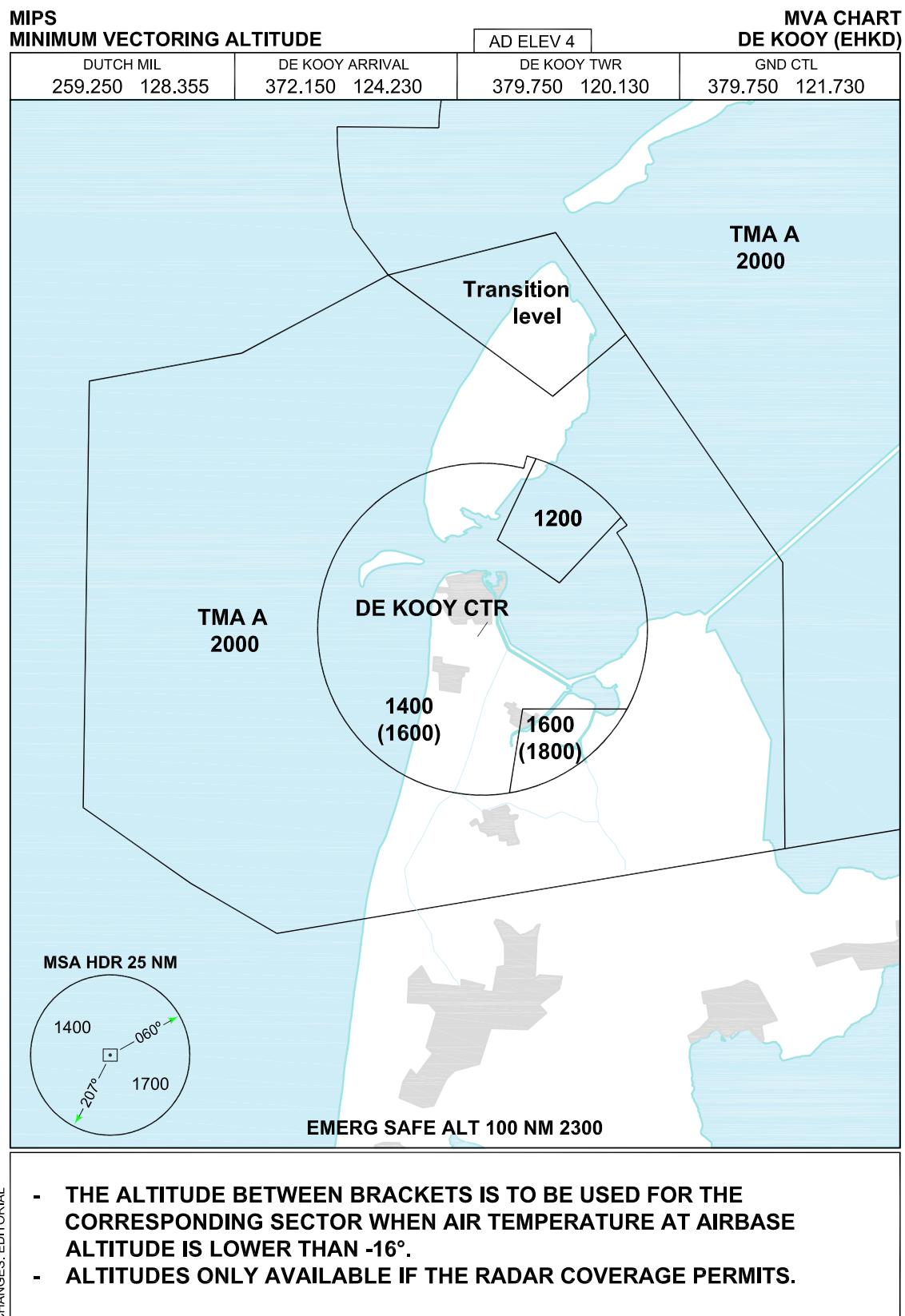
EHKD AD 2.24 Charts related to an aerodrome

| | |
|---|--------------|
| Aerodrome chart | EHKD AD 2-21 |
| Local map | EHKD AD 2-22 |
| MVA chart | EHKD AD 2-23 |
| Instrument approach chart RNP Z RWY 03 | EHKD AD 2-24 |
| Instrument approach chart RNP Y RWY 03 | EHKD AD 2-25 |
| Instrument approach chart ILS or LOC RWY 21 | EHKD AD 2-26 |
| Instrument approach chart COP ILS or LOC RWY 21 | EHKD AD 2-27 |
| Instrument approach chart RNP Z RWY 21 | EHKD AD 2-28 |
| Instrument approach chart RNP Y RWY 21 | EHKD AD 2-29 |



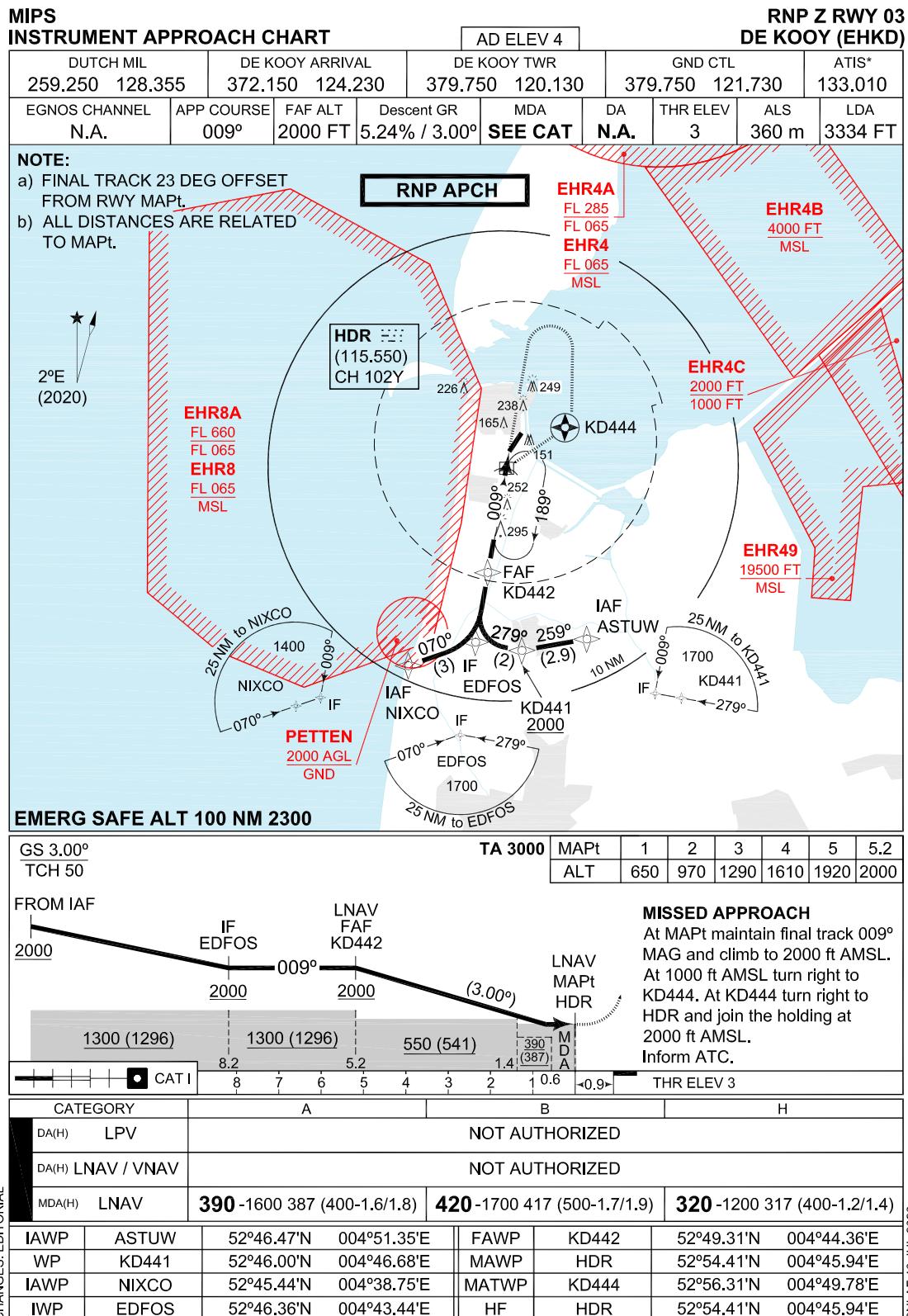
LOCAL MAP



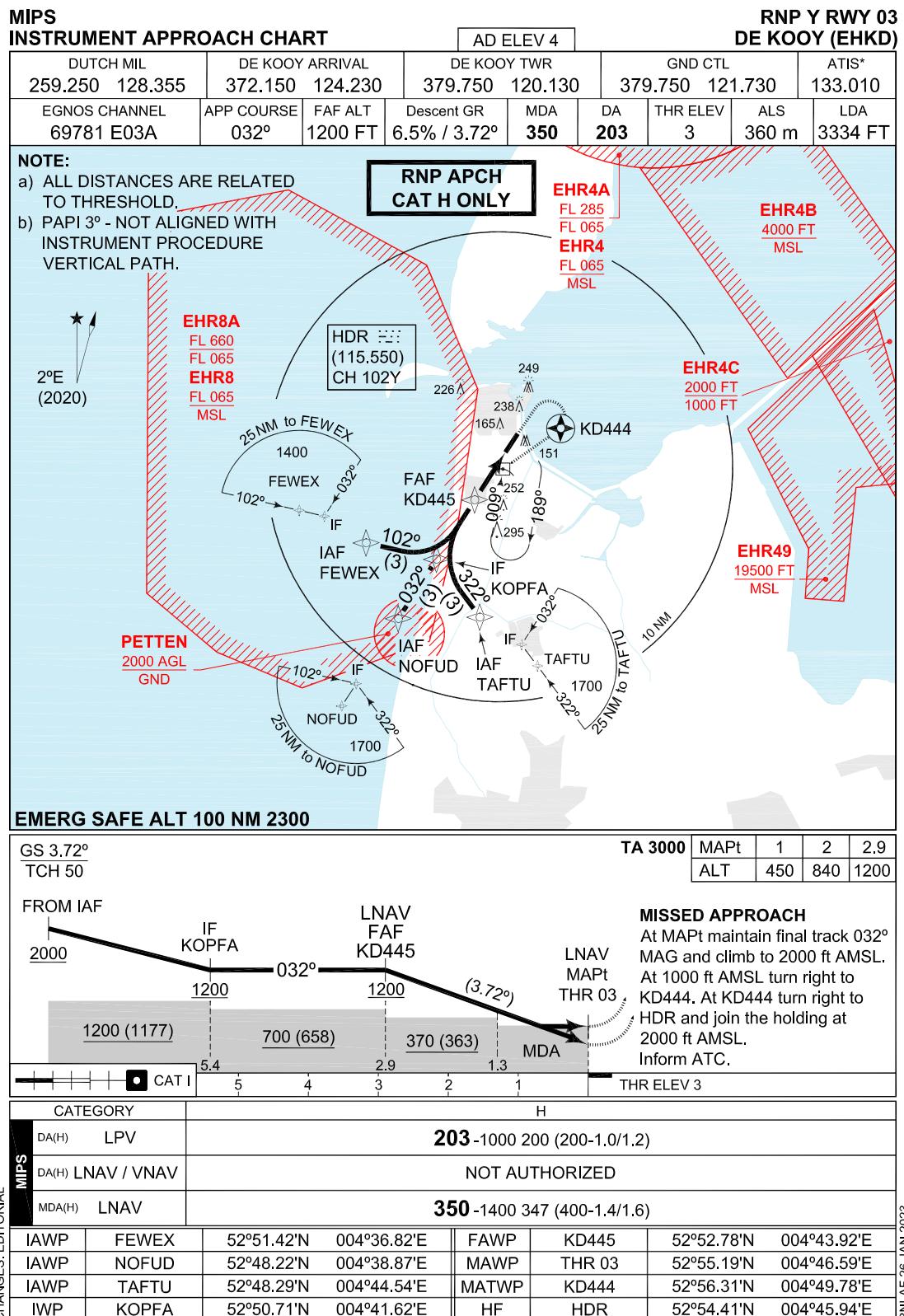


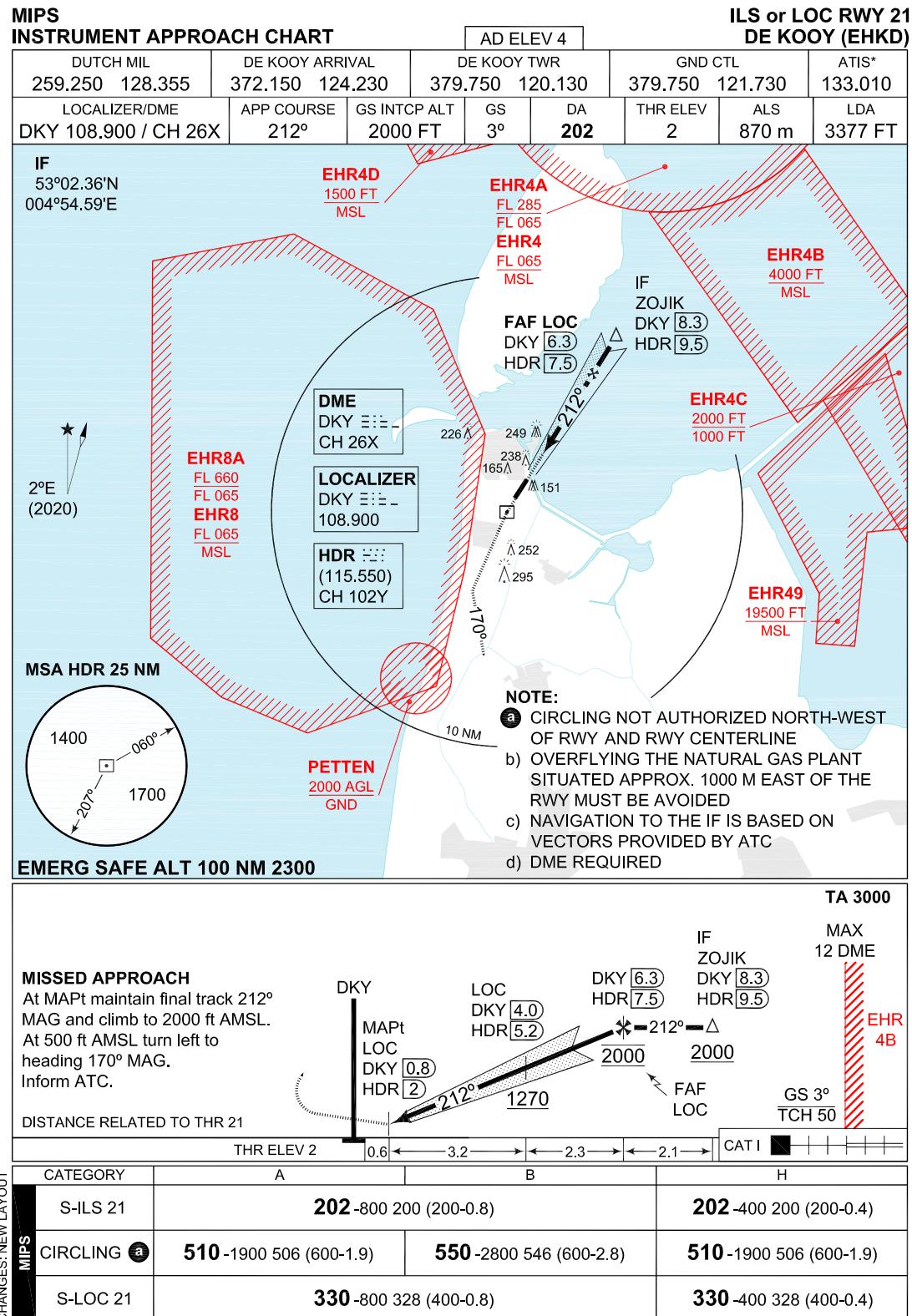
CHANGES: EDITORIAL

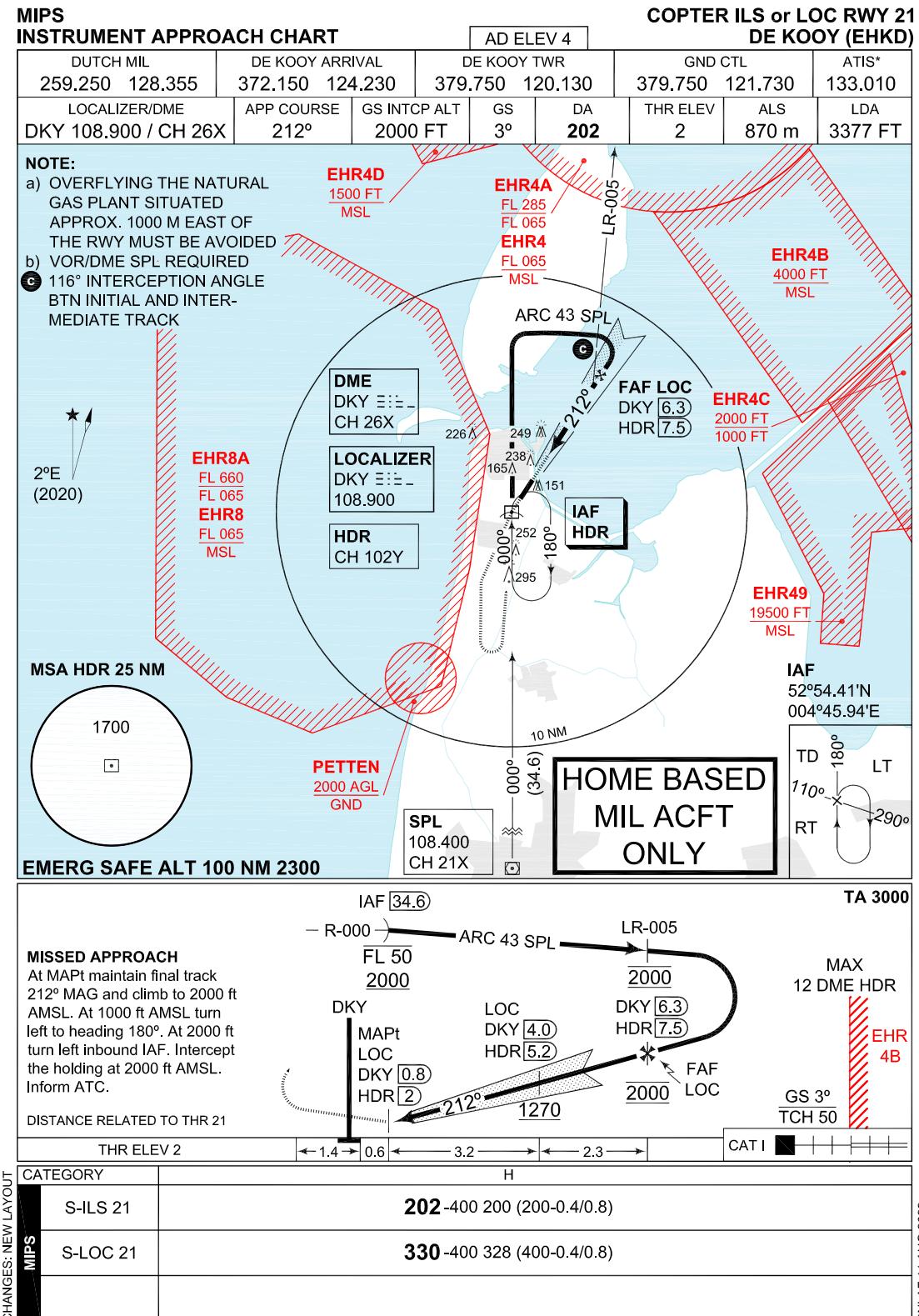
RNLAf 30 DEC 2021

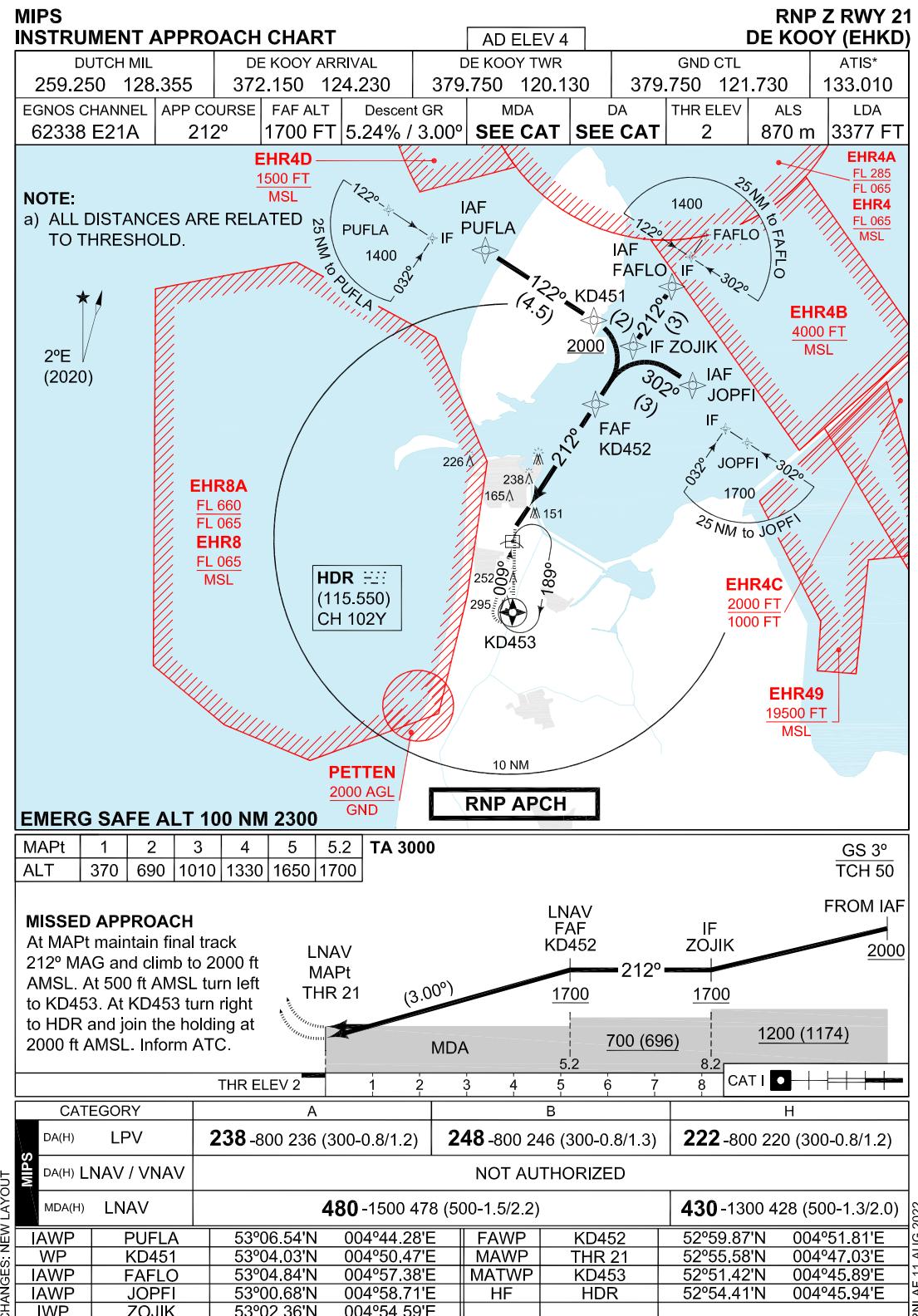


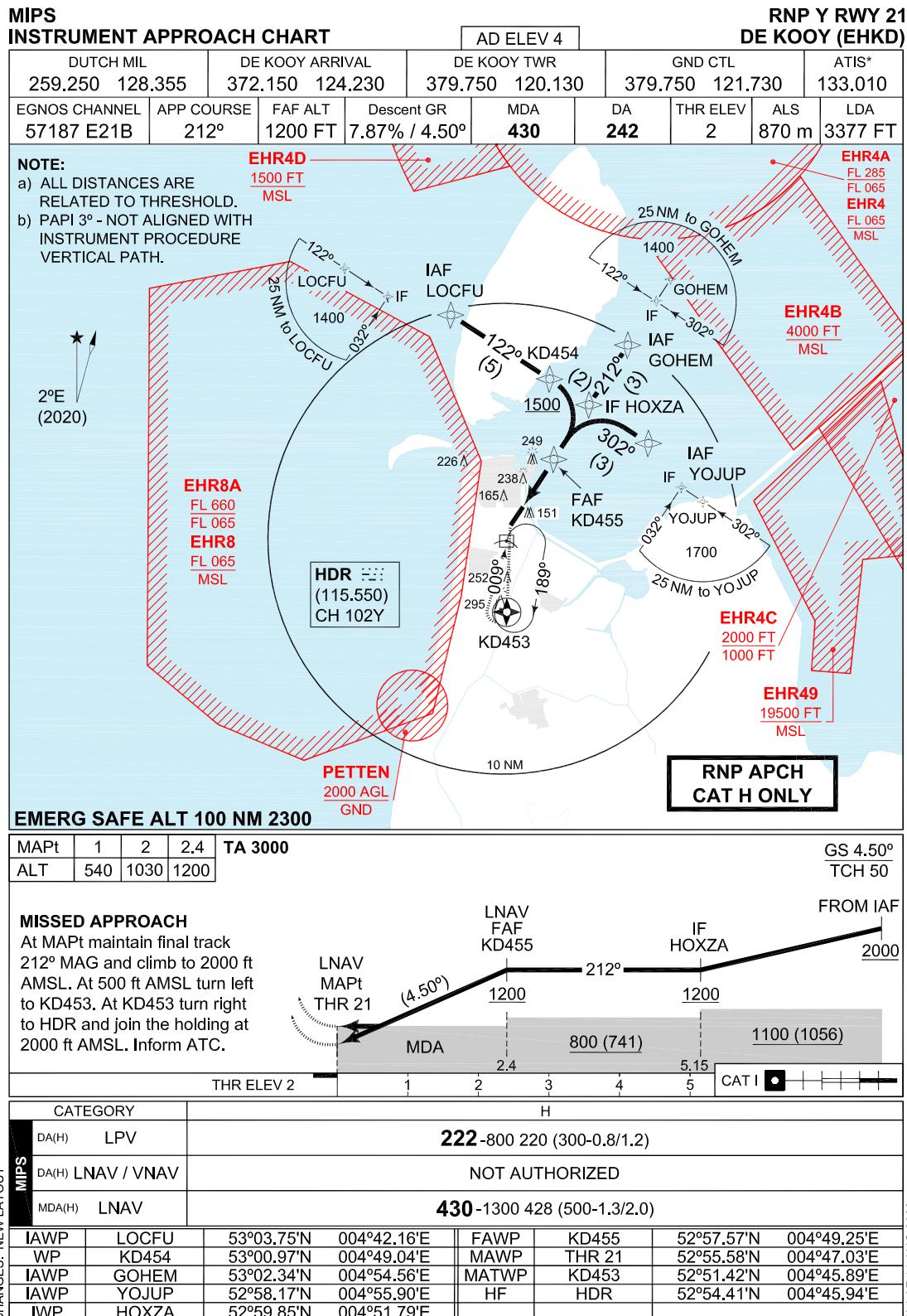
RNLAf 13 JUL 2023











INTENTIONALLY LEFT BLANK

PART 3 – AERODROMES (AD)

AD 2.

AD 2. AERODROMES LEEUWARDEN

LEEUWARDEN

EHLW AD 2.1 Aerodrome location indicator and name

EHLW Leeuwarden

EHLW AD 2.2 Geographical and administrative data

| | | |
|---|---|--|
| 1 | ARP | 53°13'30.98"N 005°45'09.12"E |
| 2 | Direction and distance from city | 325° MAG/2 NM LEEUWARDEN |
| 3 | Elevation/Reference temperature | + 3 ft AMSL/20.5° C (AUG) |
| 4 | MAG VAR/Annual change | 2°E (JAN 2020)/12'E |
| 5 | AD operating authority Postal address Visitors' address Telephone Telefax AFTN | RNLAF Vliegbasis Leeuwarden MPC 80A P.O. Box 8762 4820 BB Breda Keegsdijkje 7 8919 AK Leeuwarden +31(0)58 2346911 +31(0)58 2346982 EHLWZTZX |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHLW AD 2.3 Operational hours

| | | |
|----|----------------------------|-------------------------------|
| 1 | AD OPR HR | MON/FRI 0700/1530 (0600/1430) |
| 2 | Customs and immigration | 45 MIN PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | See 2.23 |
| 5 | ATS Reporting Office (ARO) | See 2.23 |
| 6 | MET Briefing Office | HO |
| 7 | ATS | HO |
| 8 | Fuelling | HO |
| 9 | Handling | HO |
| 10 | Security | HO |
| 11 | De-icing | HO |
| 12 | Remarks | PPR 24 HRS See 2.23 |

EHLW AD 2.4 Handling services and facilities

| | | |
|---|--------------------------------|--|
| 1 | Cargo-handling facilities | Yes |
| 2 | Fuel/oil types | F-34, H-515, H-537, O-133, O-142, O-147, O-148, O-149, O-153, O-155, O-156, O-157, O-158, O-190, O-192 |
| 3 | Fuelling facilities/capacity | No limitations |
| 4 | Oxygen | LHOX, LOX |
| 5 | De-icing facilities/type | S-738, S-742 |
| 6 | Starting units | DSA 150, DSA 600, FC 15, FC 30, JAS, EC 3500 |
| 7 | Hangar space for visiting ACFT | No |
| 8 | Repair facilities | F16, F35 |
| 9 | Remarks | Nil |

EHLW AD 2.5 Passenger facilities

| | | |
|---|--------------------|----------------------------|
| 1 | Remain overnight | AVBL O/R |
| 2 | Medical facilities | Medical officer, ambulance |
| 3 | Remarks | Nil |

EHLW AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|------------|
| 1 | AD category for fire fighting | NATO CAT 7 |
| 2 | Remarks | Nil |

EHLW AD 2.7 Seasonal availability - clearing

| | | |
|---|------------------------|---|
| 1 | Seasonal availability | All seasons |
| 2 | Snow removal equipment | Yes |
| 3 | Remarks | Caution advised in winter during ice conditions |

EHLW AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|--|
| 1 | Apron surface and strength | Concrete, Three areas along southern TWY. PCN: South 1 44 R/C/W/T South 2 44 R/C/W/T South 3 30 R/C/W/T One area along northern TWY. PCN: North 39 R/C/W/T |
| 2 | TWY width, surface and strength | Width 39 ft tarmac/concrete, PCN: North 69 F/B/W/T East 75 F/B/W/T South 75 F/B/W/T West 65 F/B/W/T |
| 3 | Remarks | Obstacle, due to installation of the M.A.A.S. (and orange shelter), 56 ft from taxiway centreline at intersection C and 59 ft from taxiway centreline at intersection B Southside. Maximum allowed wingspan is 98 ft (30m) for both intersections. |

EHLW AD 2.9 Surface movement guidance and control system and markings

| | |
|-----------------------|---------|
| According STANAG 3158 | |
| 1 | Remarks |

EHLW AD 2.10 Aerodrome obstacles

| |
|---------------------|
| See Aerodrome Chart |
|---------------------|

EHLW AD 2.11 Meteorological information provided

| | | |
|---|--|--|
| 1 | Associated MET Office | Leeuwarden |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHLW 058-2346056 or mail LW.Meteo@mindef.nl Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHLW AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|--|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | PCN: 23 64 F/B/W/T (Stopway 23 24 F/B/W/T) 05 64 F/B/W/T (Stopway 05 24 F/B/W/T) 27 52 F/B/W/T 09 52 F/B/W/T |
| 4 | Remarks | RWY 09/27 no Touchdown Zone Marking and Aiming Point Marking available. RWY 23/05 no SWY-marking available on both SWYs. RWY-distance markers provide distance available till RWY end (SWY excluded). RWY 27/07 no Touchdown Zone marking Aiming Point marking available. |

EHLW AD 2.13 Declared distances

See Aerodrome Chart. Values in ft.

EHLW AD 2.14 Approach and runway lighting

| According STANAG 3316 | | |
|-----------------------|-------------------|---|
| 1 | Approach lighting | RWY 23: CAT I. 720 m RWY 05: CAT I. 660 m RWY 27: Nil RWY 09: Nil |
| 2 | RWY lighting | RWY 05/23 VHI/VCL, RWY 09/27 VHI |
| 3 | PAPI | Situated on the left side of RWY 23 and RWY 05 |
| 4 | Remarks | RWY 23/05 RWY-end installed at end of the SWY. Beginning of SWY should be considered as RWY-end, due to low PCN of SWY (24). SWY is marked with red SWY edge lights. |

EHLW AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|-----------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | VB |
| 3 | Emergency RWY lighting | Nil |
| 4 | Emergency TWY edge lighting | Retroreflective markers |
| 5 | Secondary power supply/switch-over | AVBL, switch over time 15 seconds |
| 6 | Remarks | Nil |

EHLW AD 2.16 Helicopter landing area

| | | |
|---|----------|--|
| 1 | Location | 200 m Northeast of TWR. See Aerodrome Chart. |
| 2 | Marking | Daylight marking |
| 3 | Lighting | No |
| 4 | Remarks | Nil |

EHLW AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|---|
| 1 | Designation and lateral limits | Leeuwarden control zone 53°20'10.90"N 005°52'29.80"E; 53°21'38.51"N 005°56'03.02"E; 53°16'41.94"N 006°01'42.19"E; 53°15'14.48"N 005°58'09.16"E; along clockwise arc (radius 8 NM, centre 53°13'30.98"N 005°45'09.12"E) to 53°06'50.46"N 005°37'51.08"E; 53°05'22.29"N 005°34'19.67"E; 53°10'17.48"N 005°28'38.65"E; 53°11'45.80"N 005°32'10.23"E; along clockwise arc (radius 8 NM, centre 53°13'30.98"N 005°45'09.12"E) to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Leeuwarden TWR. English |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHLW AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|--|-------|---------------------------------|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Leeuwarden Tower | 120.705*) 122.100 344.850*) 257.800 | HO | *) Primary FREQ |
| GND CTL | Leeuwarden Ground | 362.525 | HO | Radar equipped |
| APP | RAPCON North | 132.030*) 284.475*) | HO | |
| RADAR | Leeuwarden Arrival | 132.030 339.700 | HO | Through APP |

EHLW AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|------------------|-----|---------------|-------|---------------------------------|-----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| TACAN | LWD | CH 94X | H24 | 53°13'25.08"N 005°45'06.64"E | 150 NM/60000 ft | FREQ protected |
| ILS 05 LOCALZER | LWZ | 111.750 | HO | 53°13'59.14"N 005°46'17.18"E | | |
| GLIDEPTH | | 333.350 | HO | 53°13'17.66"N 005°44'27.50"E | | |
| DME 05 | | CH 54Y | HO | 53°13'17.66"N 005°44'27.50"E | | |
| ILS 23 LOCALIZER | LWO | 111.750 | HO | 53°13'04.37"N 005°44'04.89"E | | |
| GLIDEPTH | | 333.350 | HO | 53°13'50.75"N 005°45'46.46"E | | |
| DME 23 | | CH 54Y | HO | 53°13'50.75"N 005°45'46.46"E | | |
| ILS 09 LOCALIZER | WOL | 109.750 | HO | 53°13'42.54"N 005°46'20.19"E | | |
| GLIDEPTH | | 333.050 | HO | 53°13'39.59"N 005°44'43.45"E | | |
| DME 09 | | CH 34Y | HO | 53°13'39.59"N 005°44'43.45"E | | |
| ILS 27 LOCALIZER | LOB | 109.750 | HO | 53°13'42.90"N 005°44'16.77"E | | |
| GLIDEPTH | | 333.050 | HO | 53°13'39.38"N 005°45'54.62"E | | |
| DME 27 | | CH 34Y | HO | 53°13'39.38"N 005°45'54.62"E | | |

EHLW AD 2.20 Local traffic regulations

Glider- and Light ACFT flying

Gliderflying outside OPR HR SR/SS.

EHLW AD 2.21 Noise abatement procedures

Special rules for visiting jet ACFT:

a. APPROACHING:

- normal circuit procedures, except R/H circuits for RWY 23 and 27;
- jet ACFT full-stop landings only;
- practice diversions may only be executed by ACFT on IF-training missions.

b. DEPARTING:

- after take off climb ASAP to at least 1000 ft AGL;
- (if possible) use of afterburner to be terminated before reaching Marssum (end of RWY 23) or Jelsum (end of RWY 05);
- low level departures: after take off straight ahead to at least 1500 ft AGL before turning on course;
- high level departures: only SIDs are allowed;
- afterburner climbouts are not permitted.

EHLW AD 2.22 Flight procedures

IFR procedures

The IAP and SID procedures are established in accordance with STANAG 3759 AND AATCP-1.

RNP Y approach RWY 05

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA(° TCH (ft)) | NAV spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|-----------------|----------|
| 001 | IF | DUTCU | - | - | - | - | - | + 1500 | - | - | - |
| 002 | TF | BOCOC | - | 143 (145) | - | 3 | - | + 1500 | - | - | RNAV1 |
| 003 | IF | TOHAR | - | - | - | - | - | + 1500 | - | - | - |
| 004 | TF | BOCOC | - | 053 (055) | - | 3 | - | + 1500 | - | - | RNAV1 |
| 005 | IF | VEFKI | - | - | - | - | - | + 1500 | - | - | - |
| 006 | TF | BOCOC | - | 323 (325) | - | 3 | - | + 1500 | - | - | RNAV1 |
| 007 | IF | BOCOC | - | - | - | - | - | + 1500 | - | - | - |
| 008 | TF | LW444 | - | 053 (055) | - | 3 | - | + 1500 | - | - | RNP APCH |
| 009 | TF | THR05 | Y | 053 (055) | | 3.7 | - | - | - | -3.72/50 | RNP APCH |
| 010 | CA | - | - | 053 (055) | - | - | - | +1200 | - | - | RNP APCH |
| 011 | DF | DUTCU | - | - | - | - | L | + 1500 | - | - | RNP APCH |

FAS data block – RNP Y RWY 05

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHLW |
| Runway | 05 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Y |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E05A |
| LTP/FTP Latitude | 531308.9900N |
| LTP/FTP Longitude | 0054416.0400E |
| LTP/FTP Ellipsoidal Height (metres) | 42.6 |
| FPAP Latitude | 531358.5755N |
| Delta FPAP Latitude (seconds) | 49.5855 |
| FPAP Longitude | 0054615.8275E |
| Delta FPAP Longitude (seconds) | 119.7875 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.72 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 17 0C 08 05 05 C8 00 01 35 30 05 FC D4 D6 16 50 5F 76 02 AA 15 63 83 01 D7 A7 03 F4 01 74 01 64 00 C8 AF 28 A6 73 8E |
| Calculated CRC Value | 28A6738E |
| Supplied CRC Value | 28A6738E |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|-----|
| ICAO Code | LW |
| LTP/FTP Orthometric Height (metres) | 1.2 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

RNP Y approach RWY 23

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA(° TCH (ft) | NAV spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | IPCOL | - | - | - | - | - | + 1500 | - | - | - |
| 002 | TF | LIWOB | - | 143 (145) | - | 3 | - | + 1500 | - | - | RNAV1 |
| 003 | IF | XOZEP | - | - | - | - | - | + 1500 | - | - | - |
| 004 | TF | LIWOB | - | 233 (235) | - | 3 | | + 1500 | - | - | RNAV1 |
| 005 | IF | RACLE | - | - | - | - | - | + 1500 | - | - | - |
| 006 | TF | LIWOB | - | 323 (325) | - | 3 | - | + 1500 | - | - | RNAV1 |
| 007 | IF | LIWOB | - | - | - | - | - | + 1500 | - | - | - |
| 008 | TF | LW434 | - | 233 (235) | - | 3 | - | + 1500 | - | - | RNP APCH |
| 009 | TF | THR23 | Y | 233 (235) | - | 3.7 | - | - | - | -3.72/50 | RNP APCH |
| 010 | CA | - | - | 233 (235) | - | - | - | + 1200 | - | - | RNP APCH |
| 011 | DF | IPCOL | - | - | - | - | R | + 1500 | - | - | RNP APCH |

FAS data block – RNP Y RWY 23

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHLW |
| Runway | 23 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Y |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E23A |
| LTP/FTP Latitude | 531352.9500N |
| LTP/FTP Longitude | 0054602.2300E |
| LTP/FTP Ellipsoidal Height (metres) | 42.5 |
| FPAP Latitude | 531304.5415N |
| Delta FPAP Latitude (seconds) | -48.4085 |
| FPAP Longitude | 0054405.3015E |
| Delta FPAP Longitude (seconds) | -116.9285 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.72 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 17 0C 08 05 17 C8 00 01 33 32 05 6C 2C D8 16 EC 9C 79 02 A9 15 CF 85 FE 7F 6E FC F4 01 74 01 64 00 C8 AF 56 6E 17 51 |
| Calculated CRC Value | 566E1751 |
| Supplied CRC Value | 566E1751 |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|-----|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 1.2 |

NOTE: *EUROCONTROL FAS DB tool Version 3.2.0*

VFR procedures

CONVENTIONAL ACFT:

Join R/H - or L/H baseleg for RWY in use as directed by ATC.

LIGHT ACFT/HEL:

Join circuit from the south at 600 ft. This altitude is to be reached at a distance of at least 5 NM from the AD. Departure from the AD to be carried out in a southern direction at 600 ft. In both the landing pattern and after take off RWYs 05/23 and 09/27 are not to be crossed.

EHLW AD 2.23 Additional information

AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.

Tel: +31(0)20 4062840

Tel: +31(0)20 4062841

E-mail: aocs.fdno@mindef.nl

AFTN: EHMCZPZX

avbl H24

PPR 24 HRS: for Prior Permission Request contact:

Leeuwarden AB

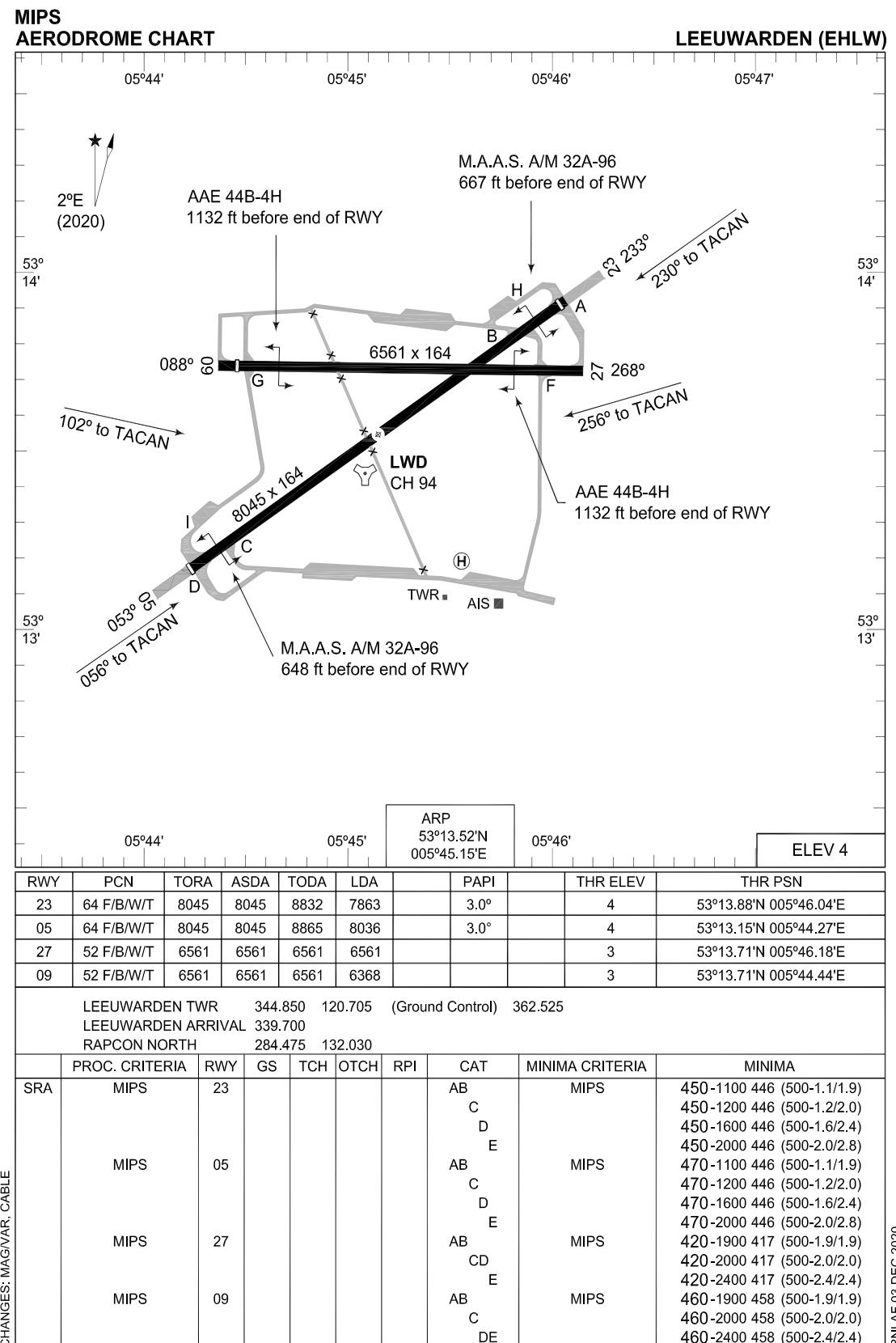
Operational Centre

Tel: +31(0)58 2346004/6006

E-mail: LW.IPCC.Daily.Ops@mindef.nl

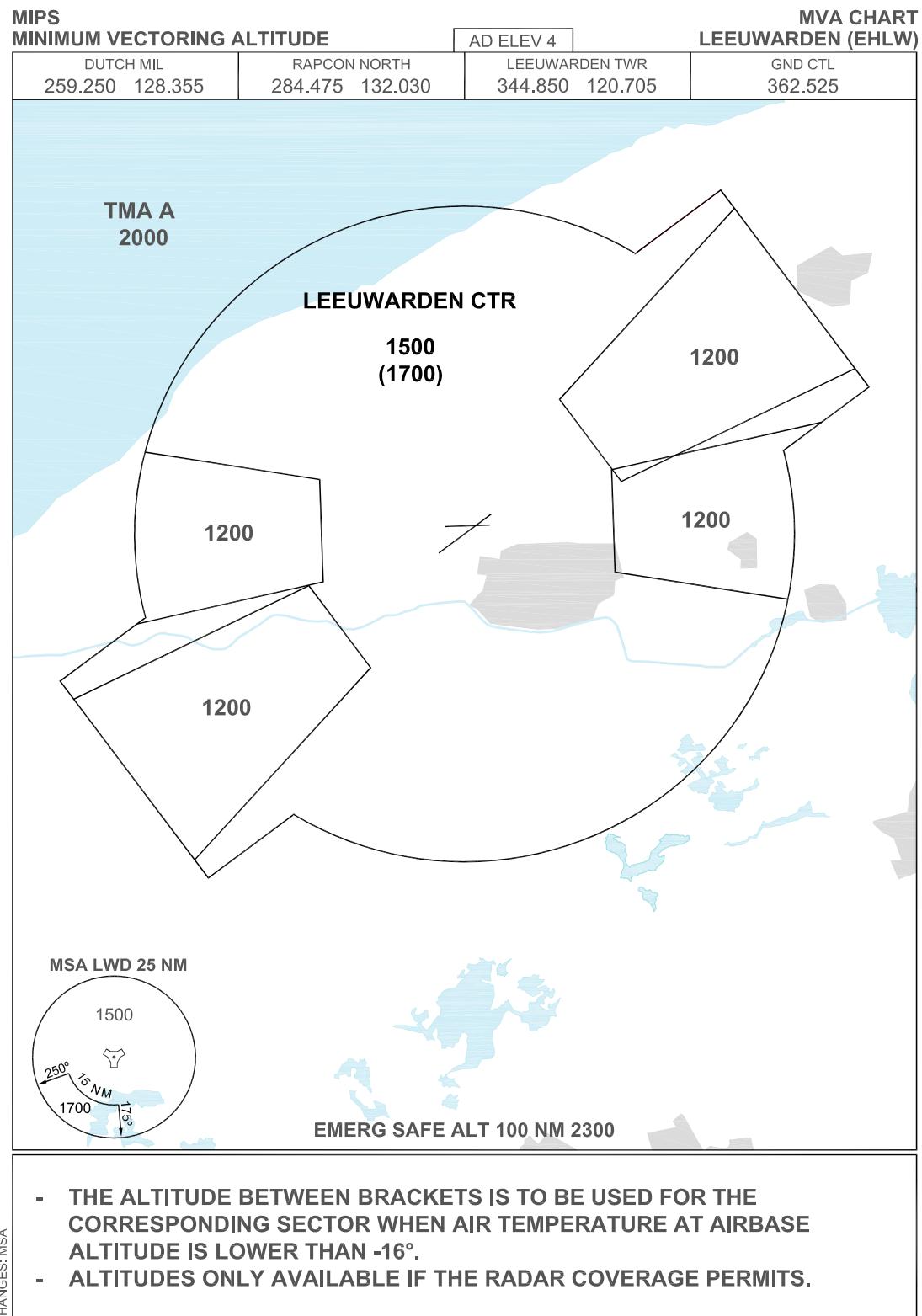
EHLW AD 2.24 Charts related to an aerodrome

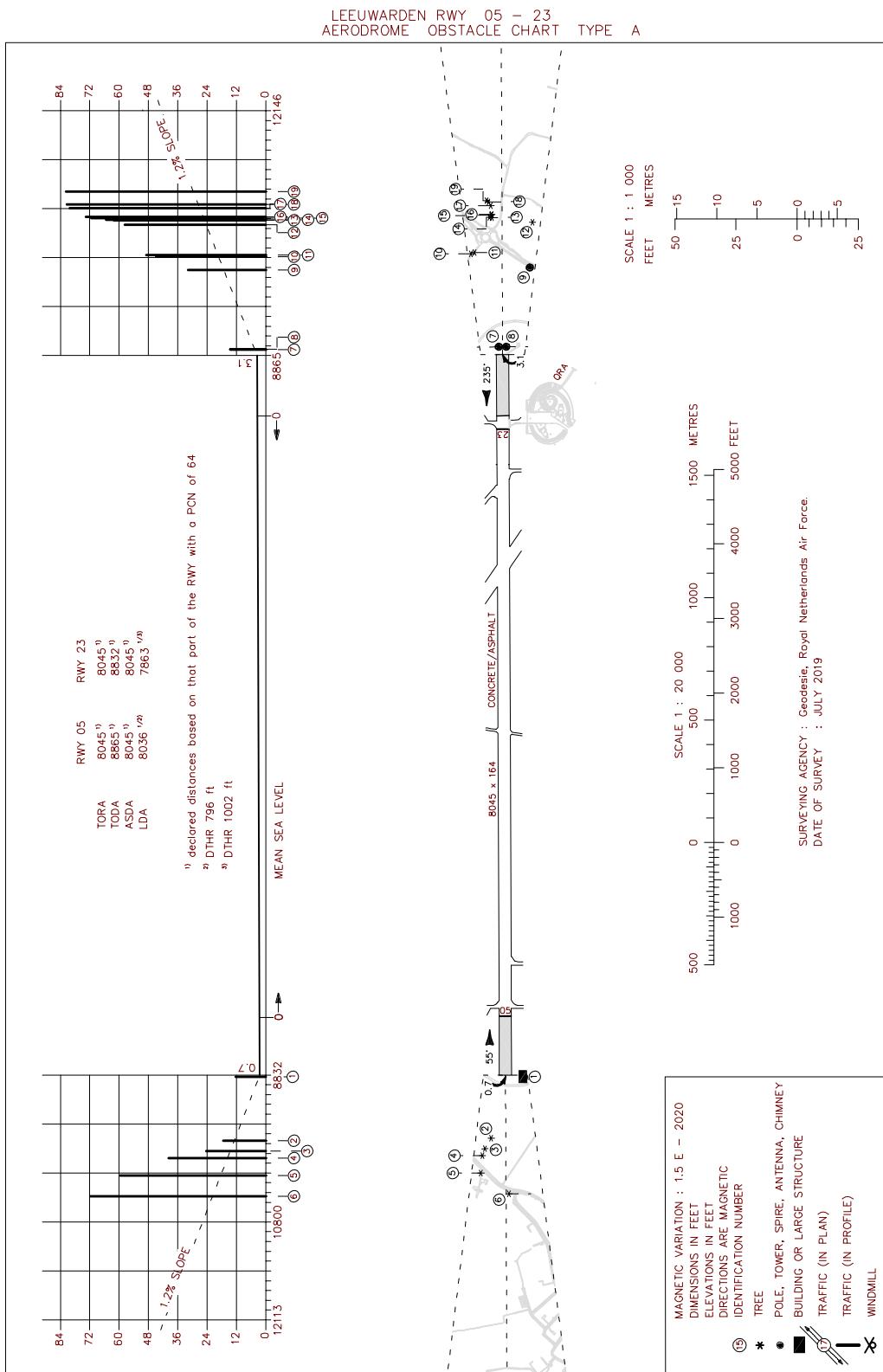
| | |
|---|--------------|
| Aerodrome Chart | EHLW AD 2-12 |
| Local map | EHLW AD 2-13 |
| MVA chart | EHLW AD 2-14 |
| Aerodrome obstacle chart RWY 05-23 | EHLW AD 2-15 |
| Aerodrome obstacle chart RWY 09-27 | EHLW AD 2-16 |
| Instrument departure chart LW1 | EHLW AD 2-17 |
| Instrument departure chart LW3 | EHLW AD 2-18 |
| Instrument departure chart LW5 | EHLW AD 2-19 |
| Instrument departure chart LW7 | EHLW AD 2-20 |
| Instrument approach chart ILS or LOC RWY 05 | EHLW AD 2-21 |
| Instrument approach chart HI-TACAN RWY 05 | EHLW AD 2-22 |
| Instrument approach chart TACAN RWY 05 | EHLW AD 2-23 |
| Instrument approach chart COPTER ILS or LOC 053 | EHLW AD 2-24 |
| Instrument approach chart COPTER TACAN 056 | EHLW AD 2-25 |
| Instrument approach chart RNP Z RWY 05 | EHLW AD 2-26 |
| Instrument approach chart RNP Y RWY 05 | EHLW AD 2-27 |
| Instrument approach chart ILS or LOC RWY 09 | EHLW AD 2-28 |
| Instrument approach chart HI-TACAN RWY 09 | EHLW AD 2-29 |
| Instrument approach chart TACAN RWY 09 | EHLW AD 2-30 |
| Instrument approach chart ILS or LOC RWY 23 | EHLW AD 2-31 |
| Instrument approach chart HI-TACAN RWY 23 | EHLW AD 2-32 |
| Instrument approach chart TACAN RWY 23 | EHLW AD 2-33 |
| Instrument approach chart COPTER ILS or LOC 233 | EHLW AD 2-34 |
| Instrument approach chart COPTER TACAN 230 | EHLW AD 2-35 |
| Instrument approach chart RNP Z RWY 23 | EHLW AD 2-36 |
| Instrument approach chart RNP Y RWY 23 | EHLW AD 2-37 |
| Instrument approach chart ILS or LOC RWY 27 | EHLW AD 2-38 |
| Instrument approach chart HI-TACAN RWY 27 | EHLW AD 2-39 |
| Instrument approach chart TACAN RWY 27 | EHLW AD 2-40 |

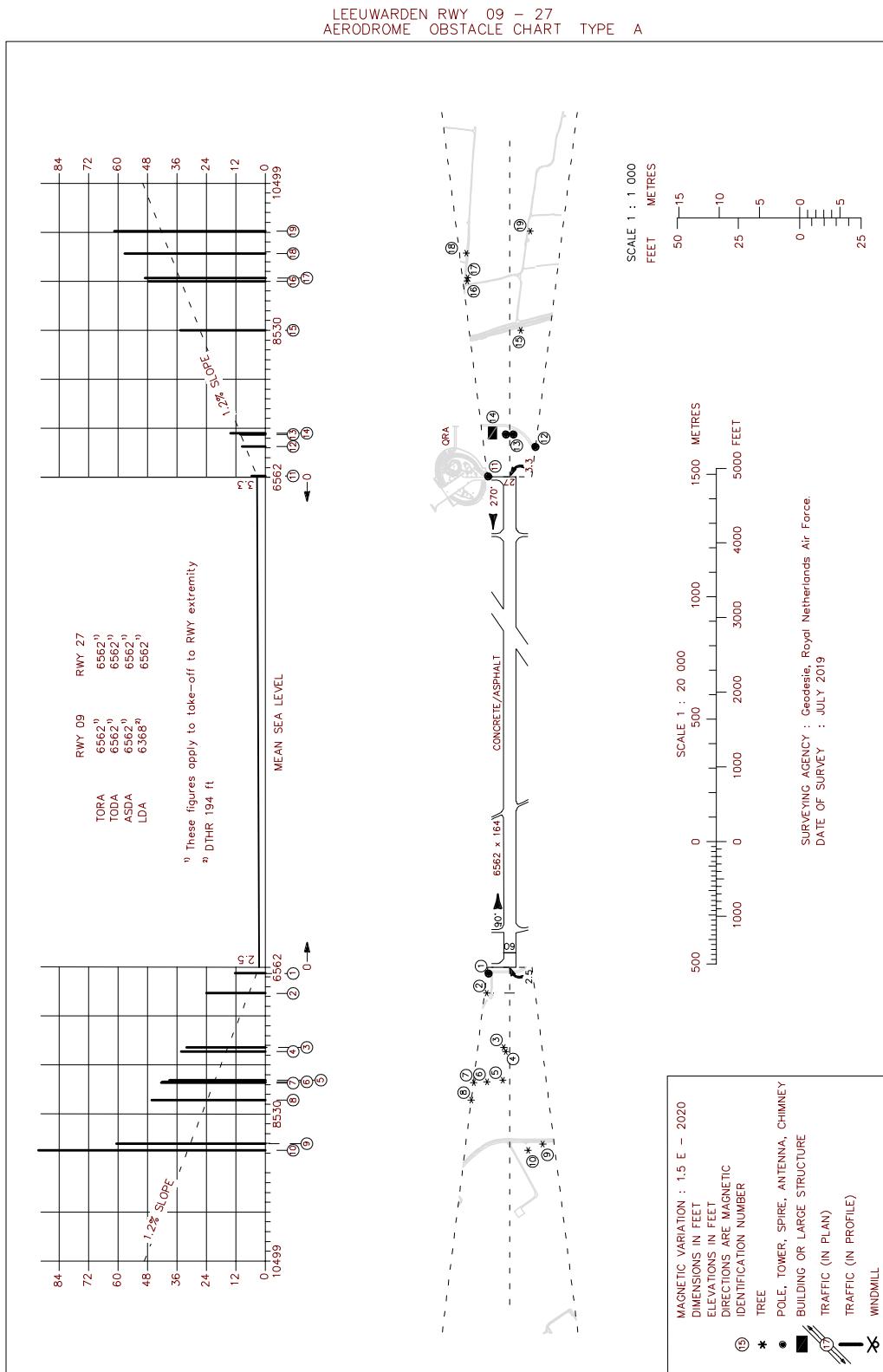


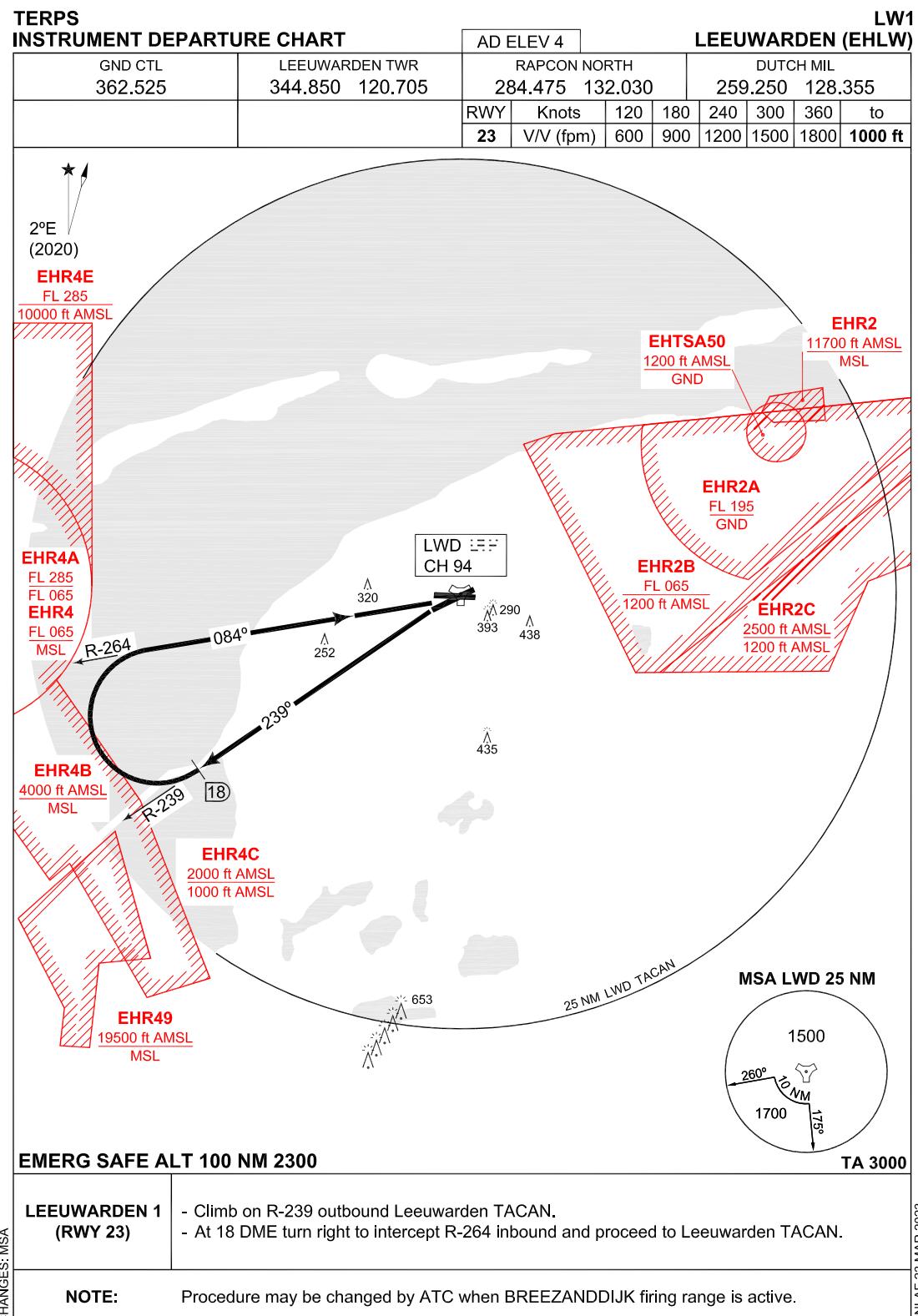
LOCAL MAP

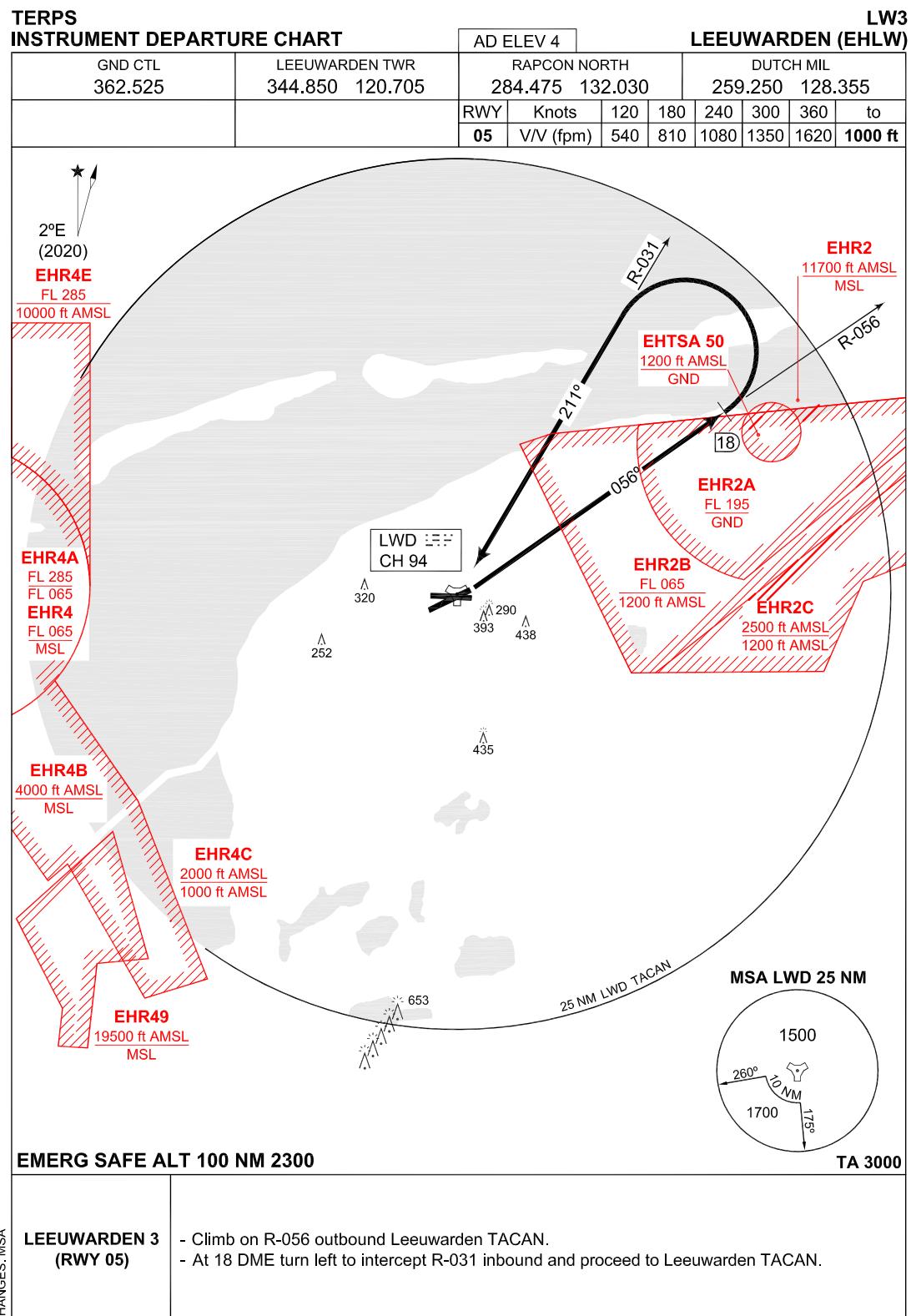


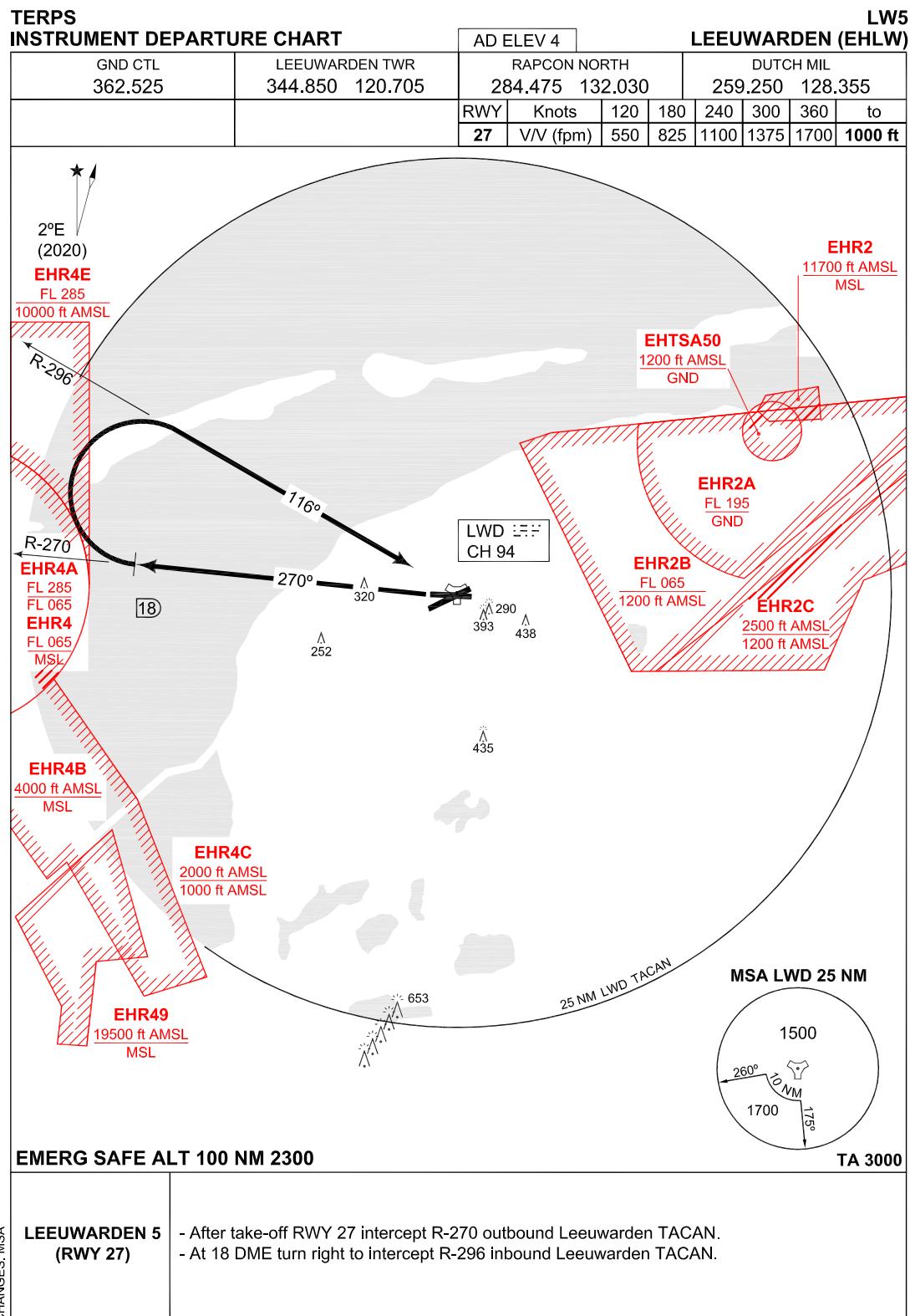


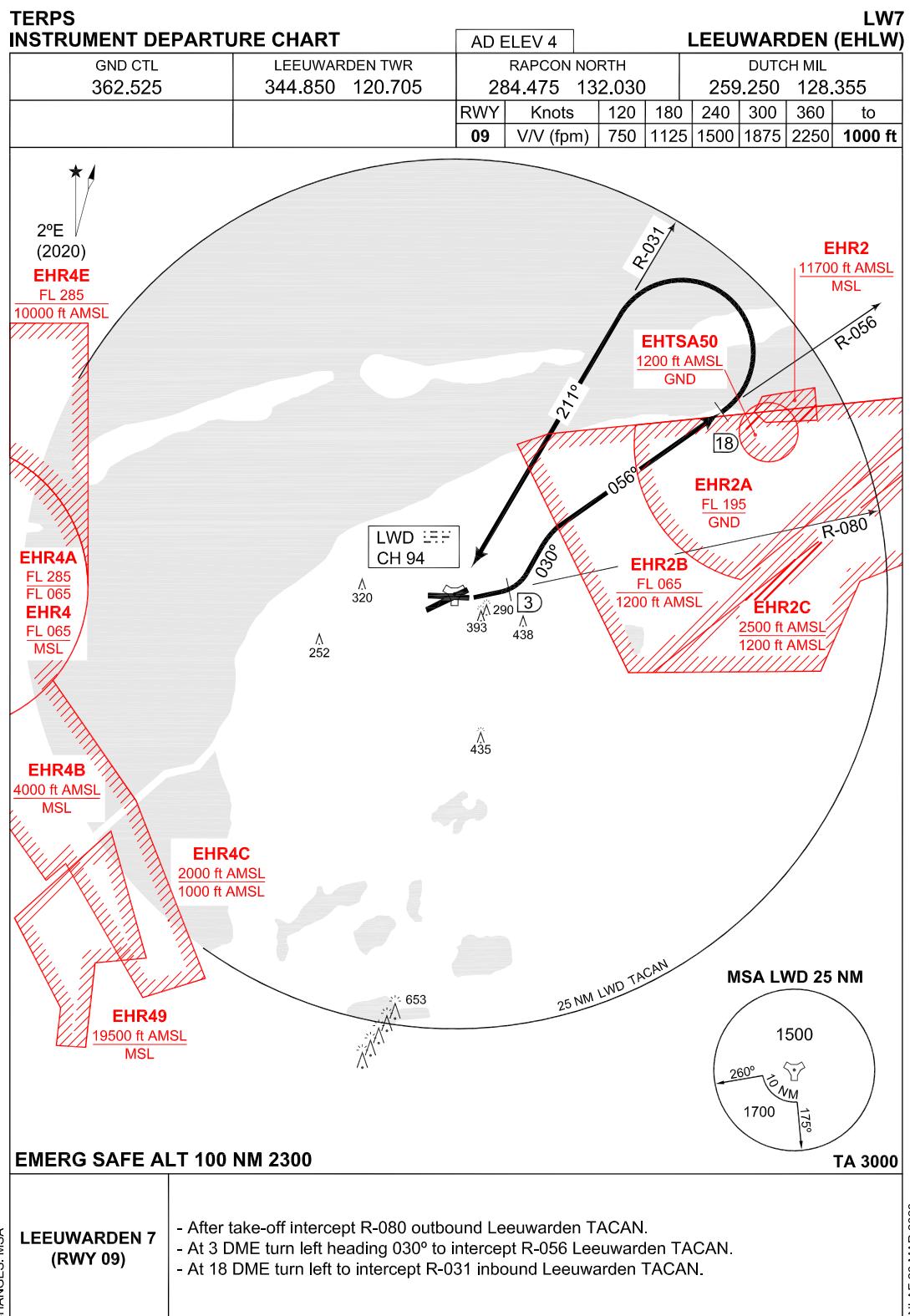


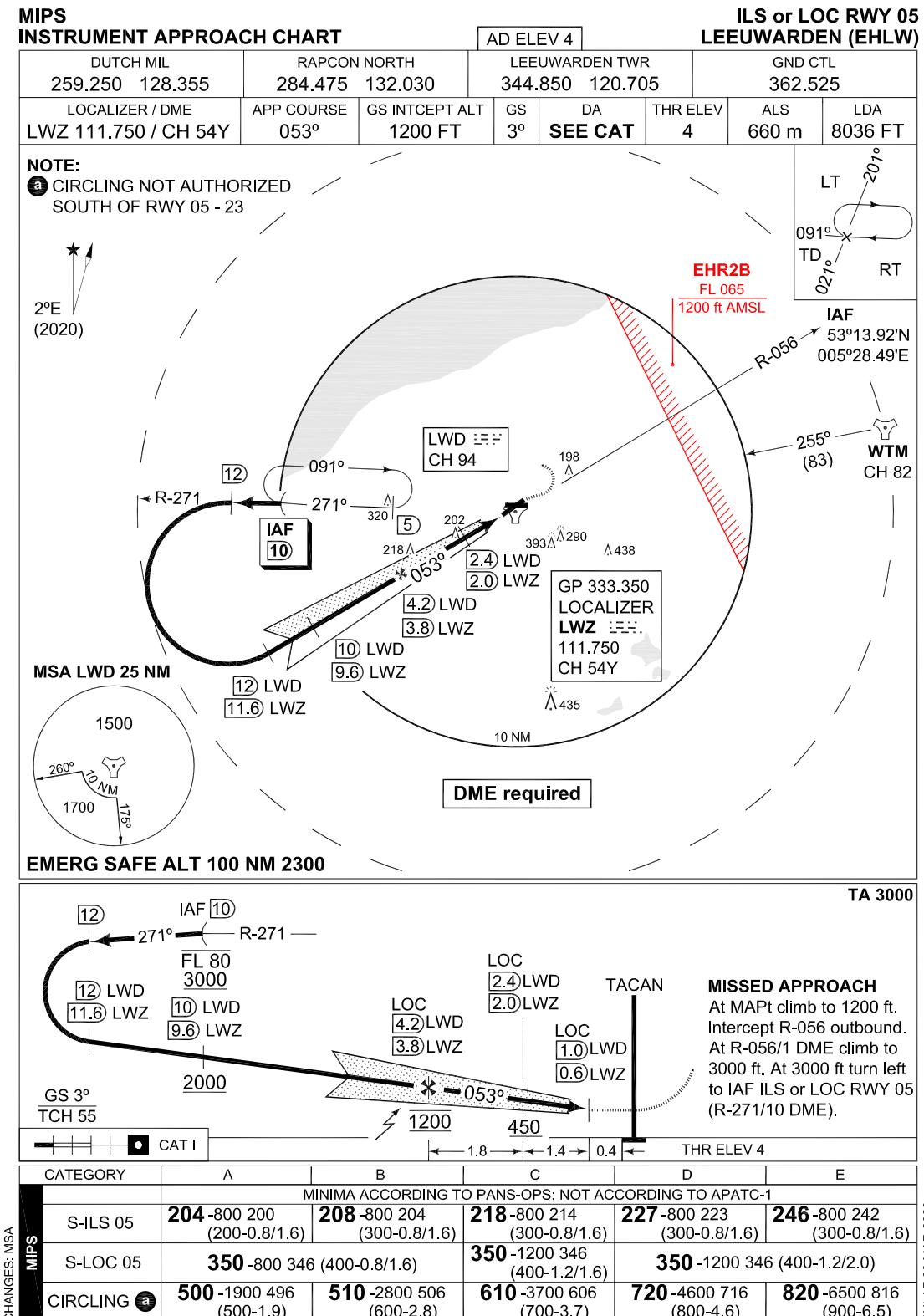


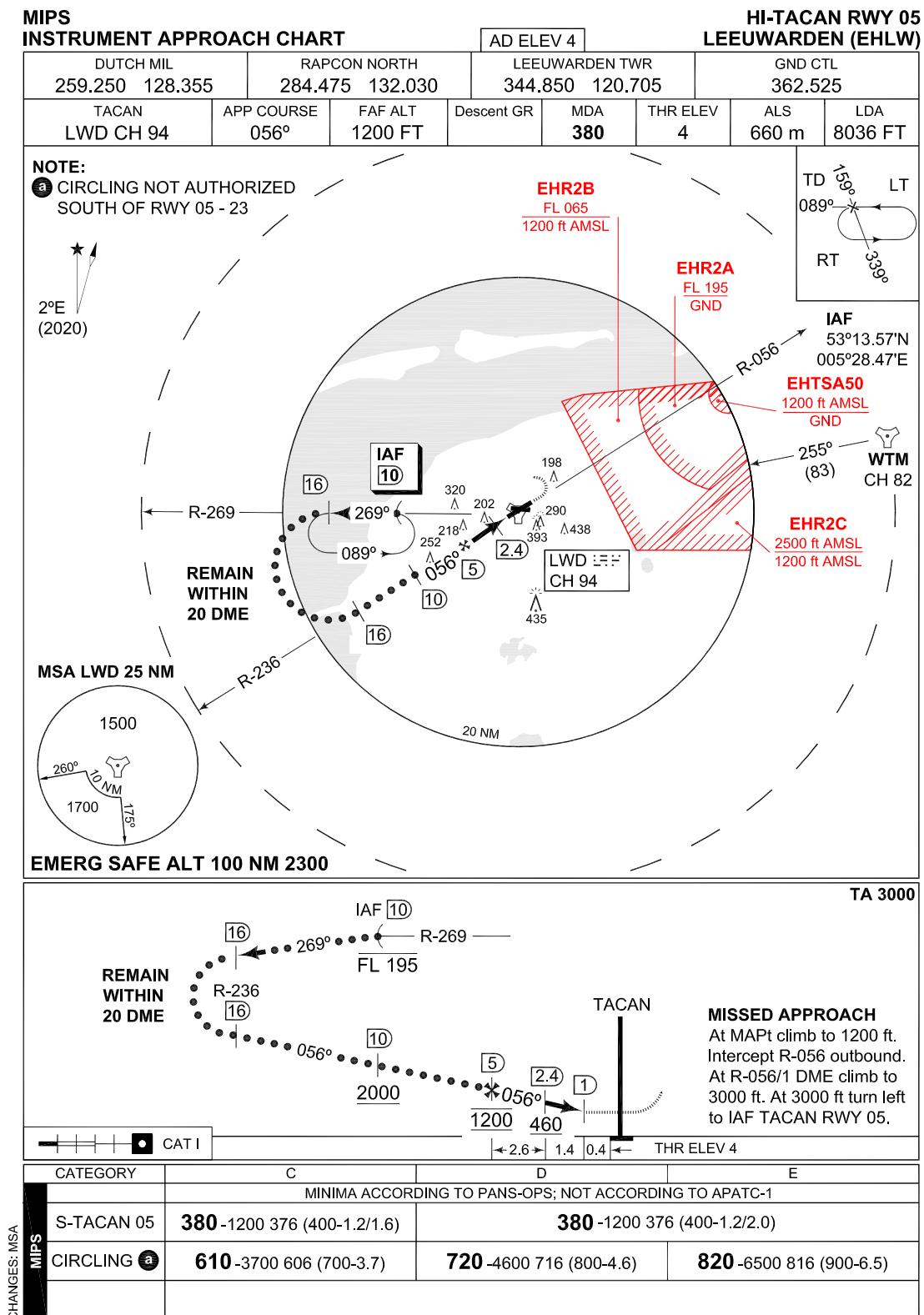


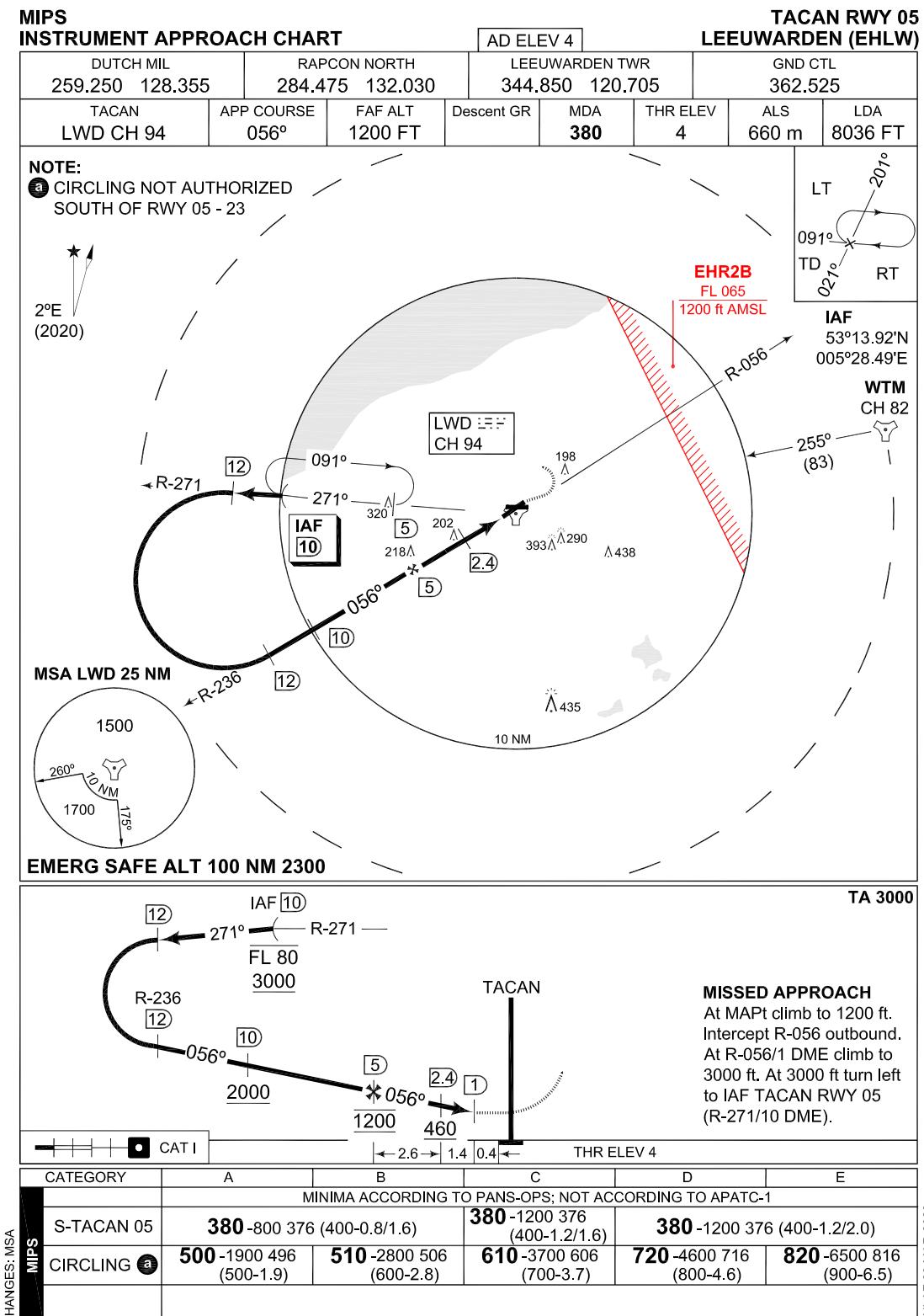




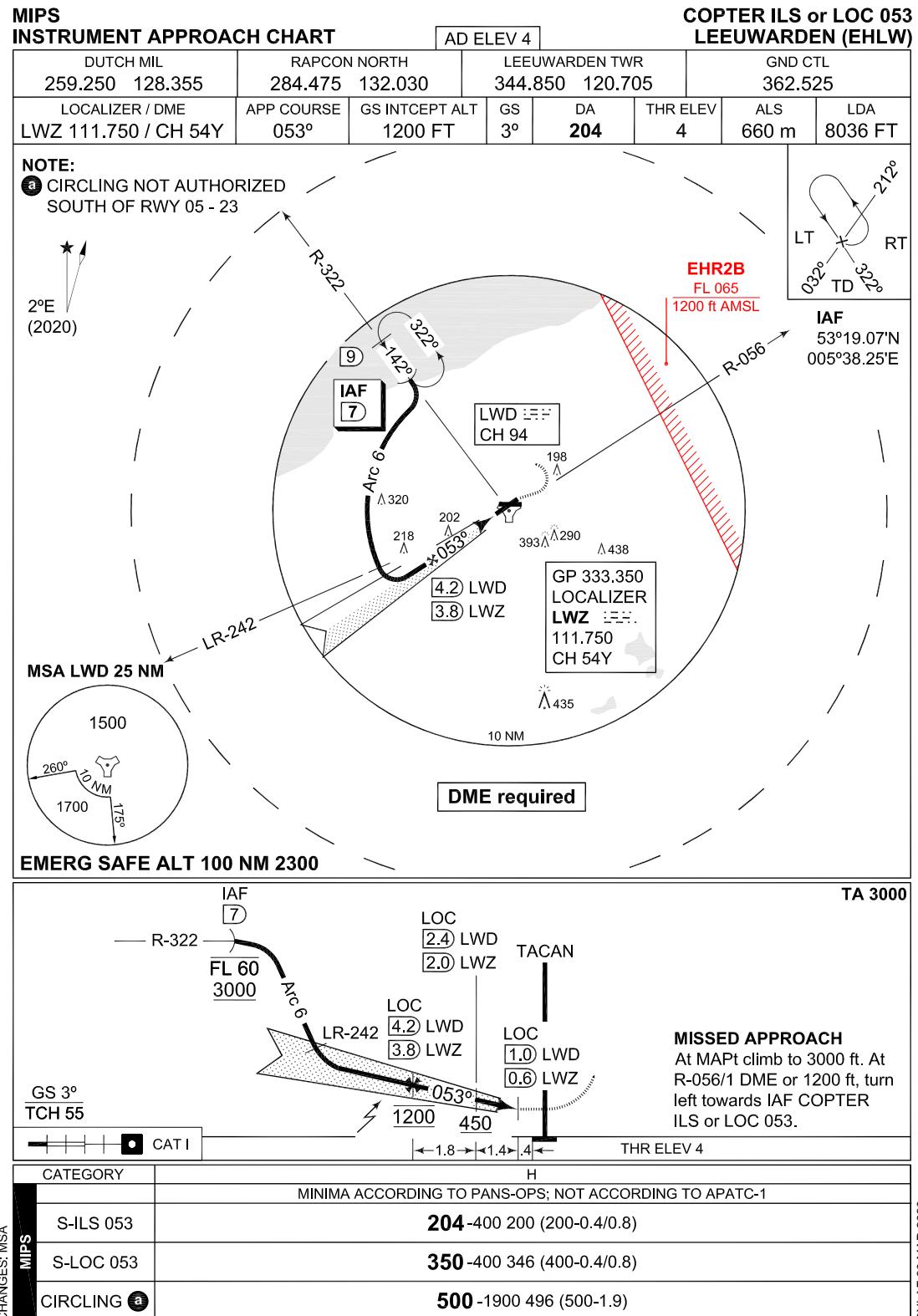


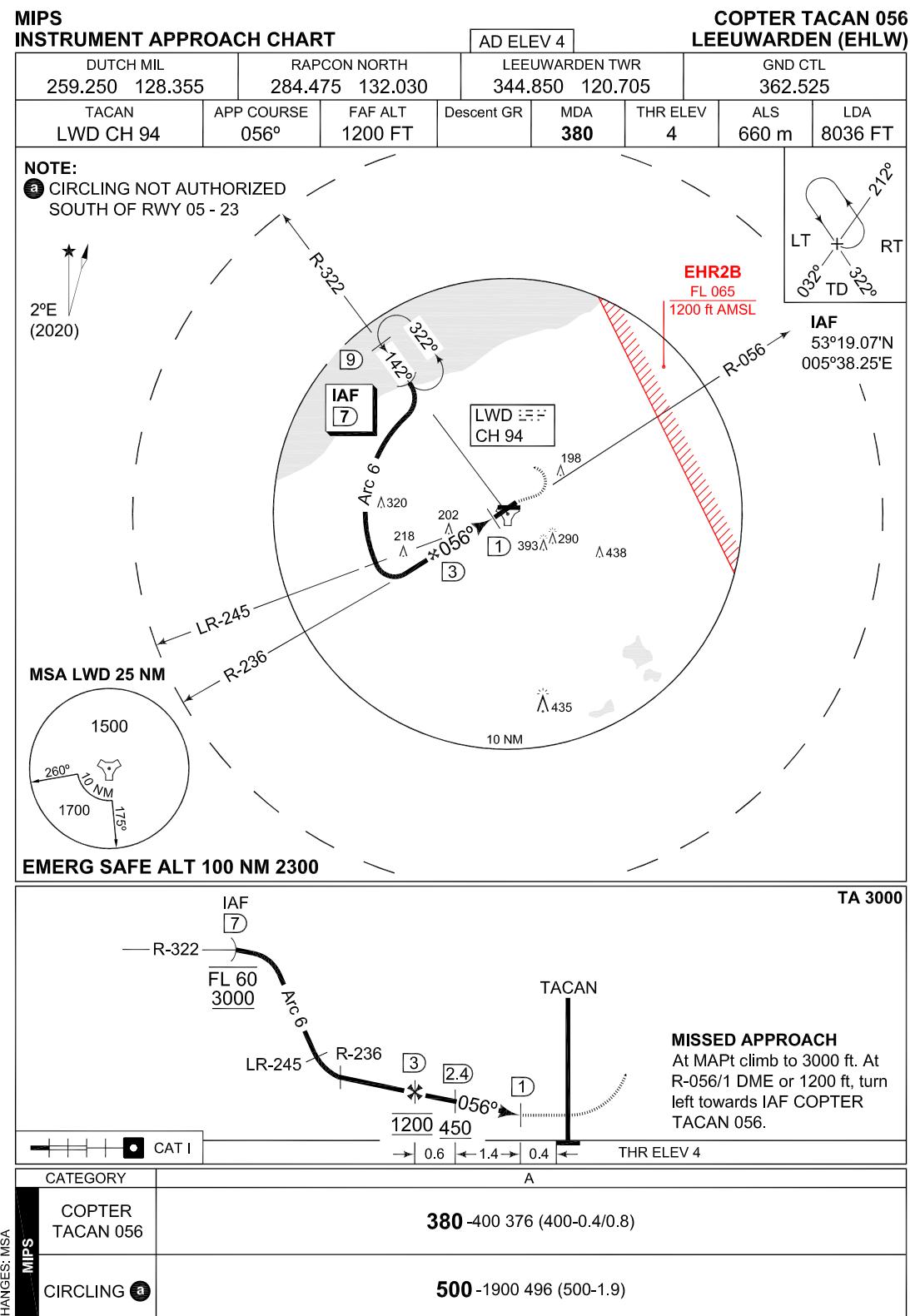


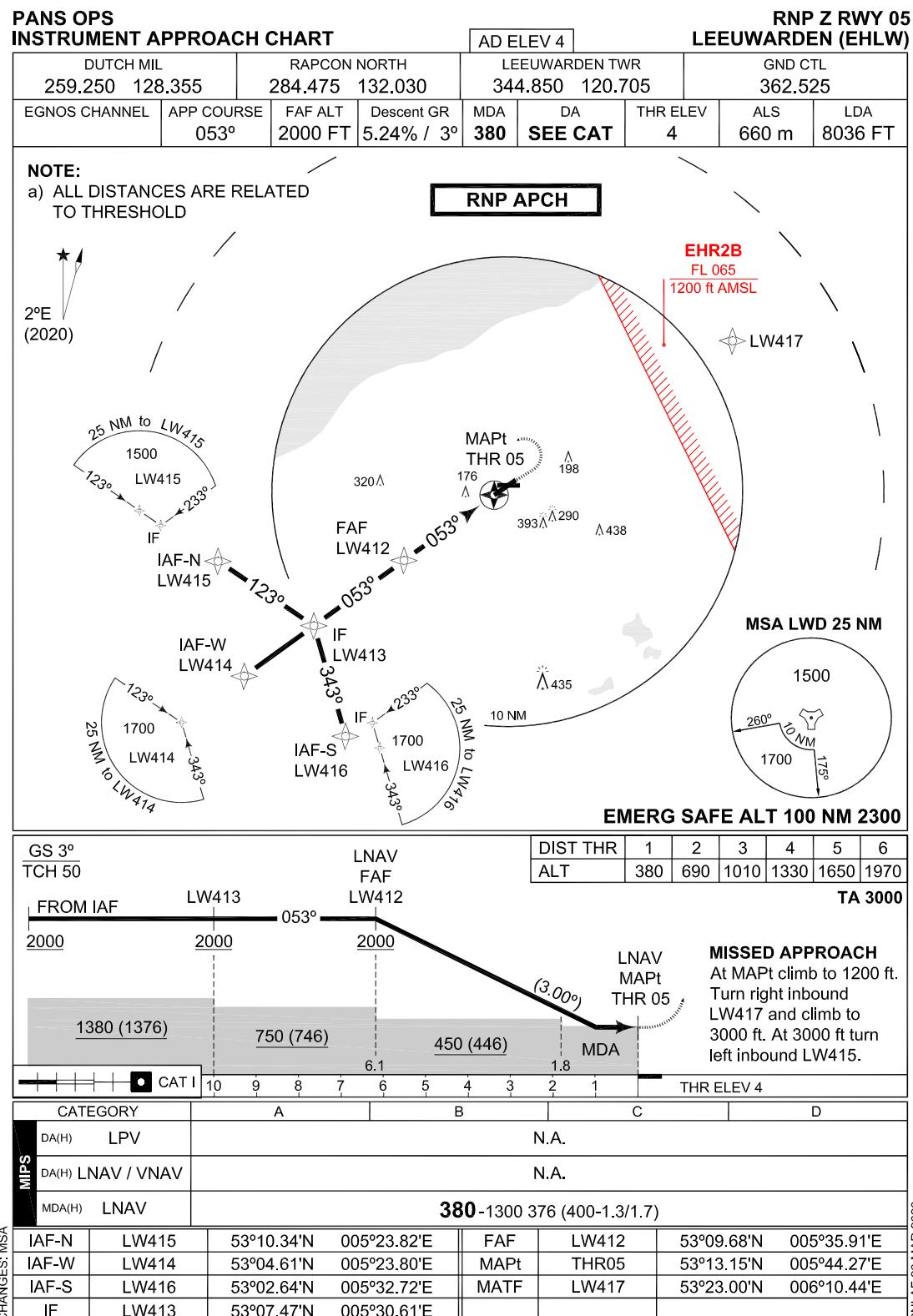




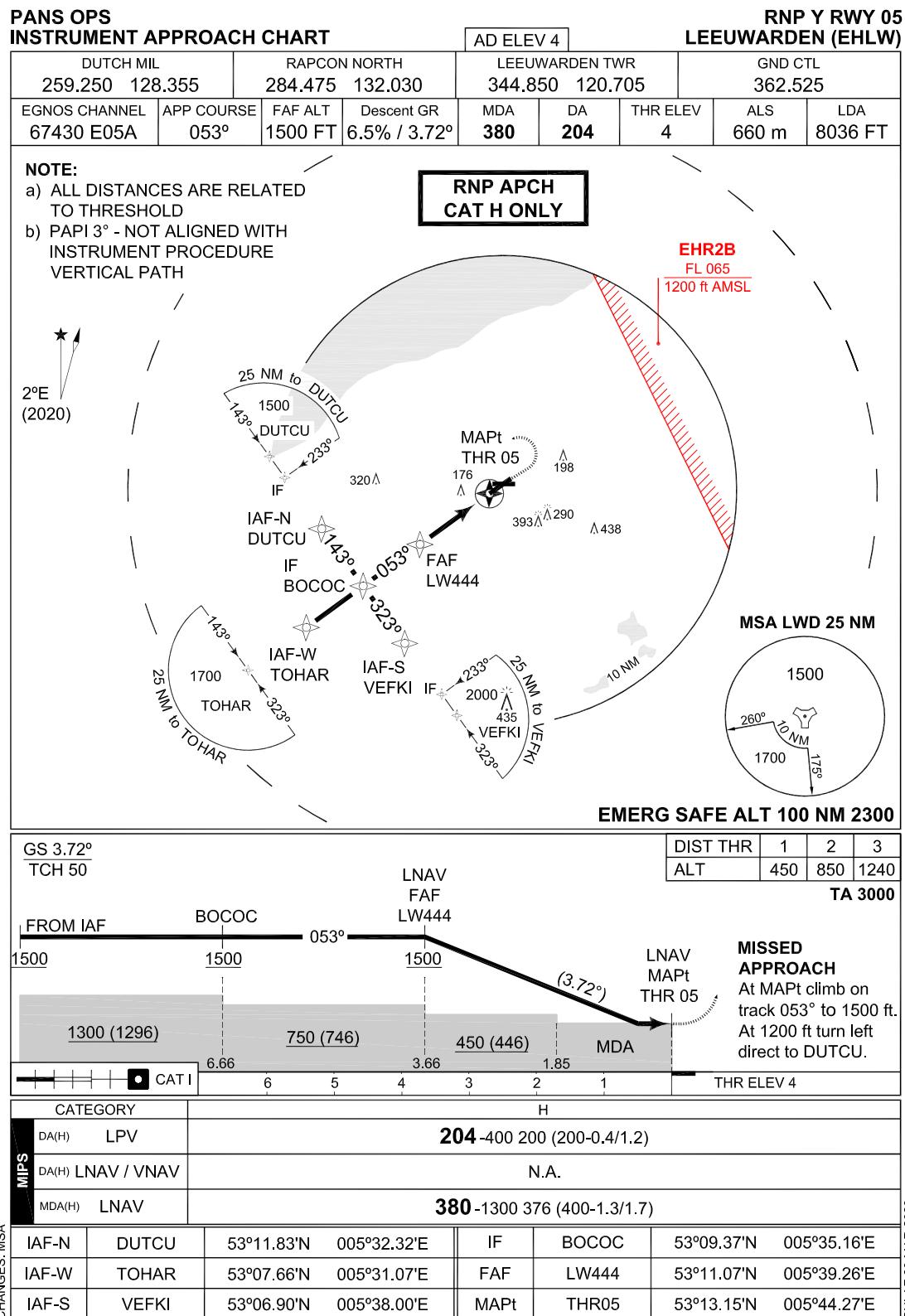
RNLAIF 23 MAR 2023

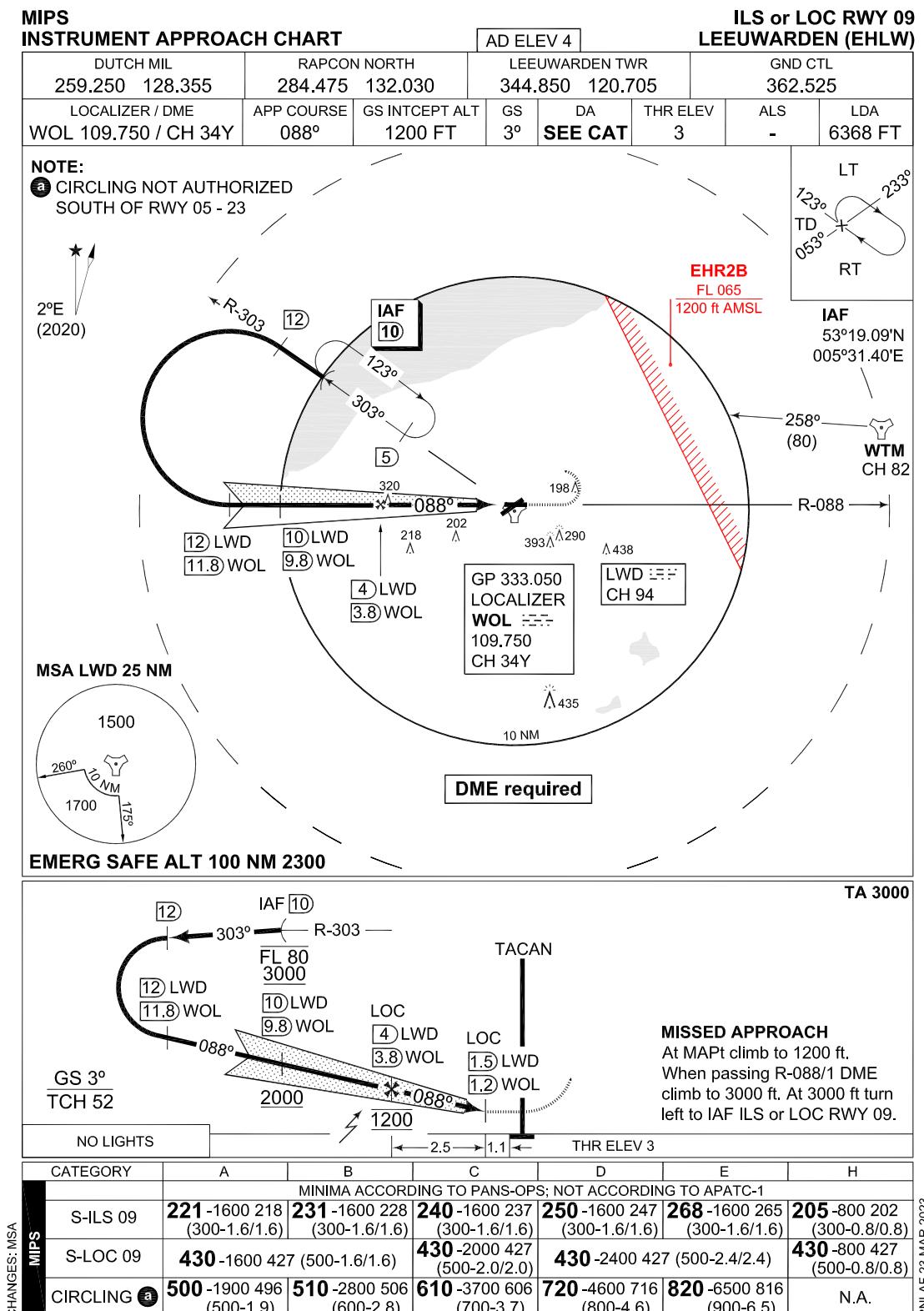


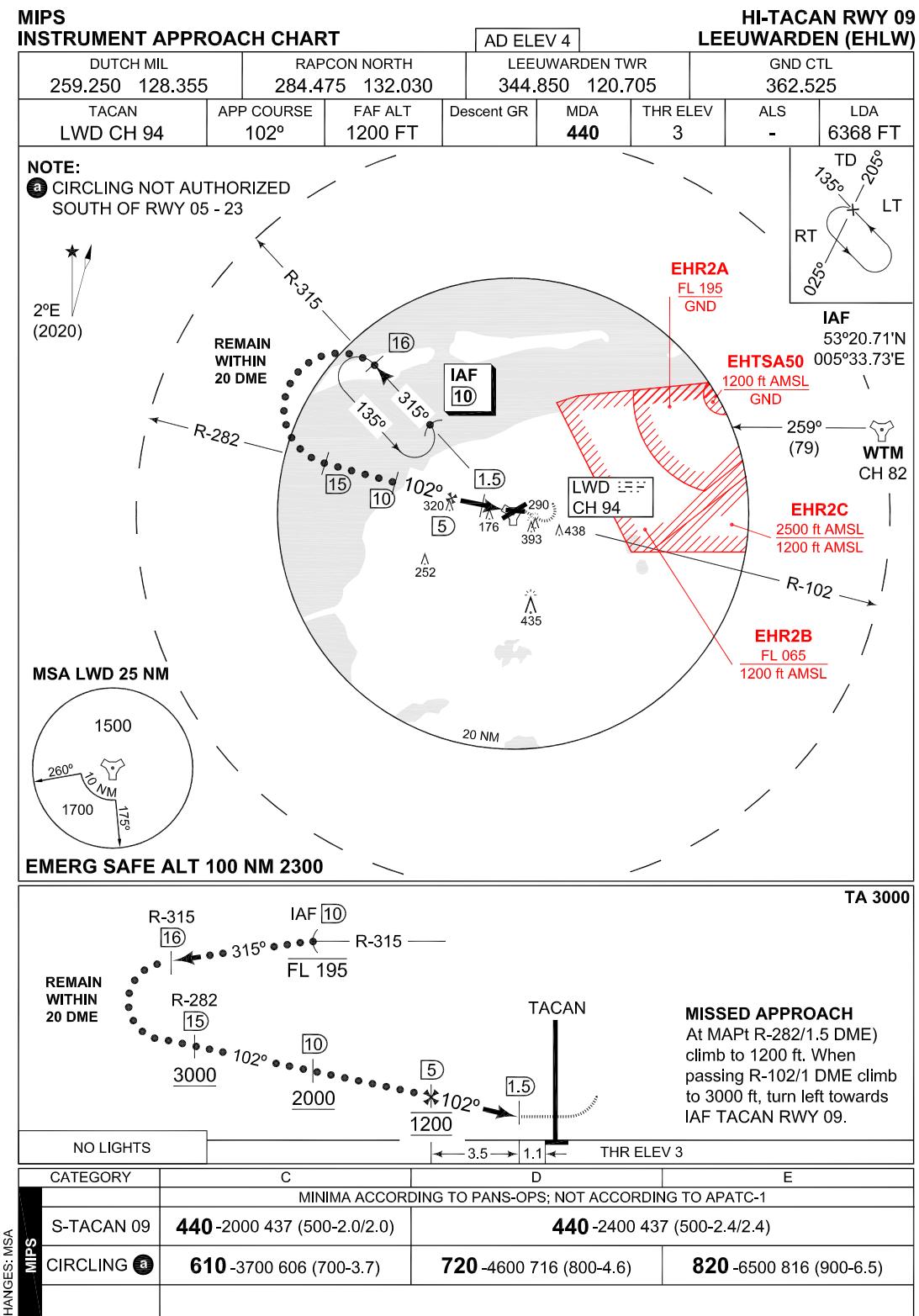


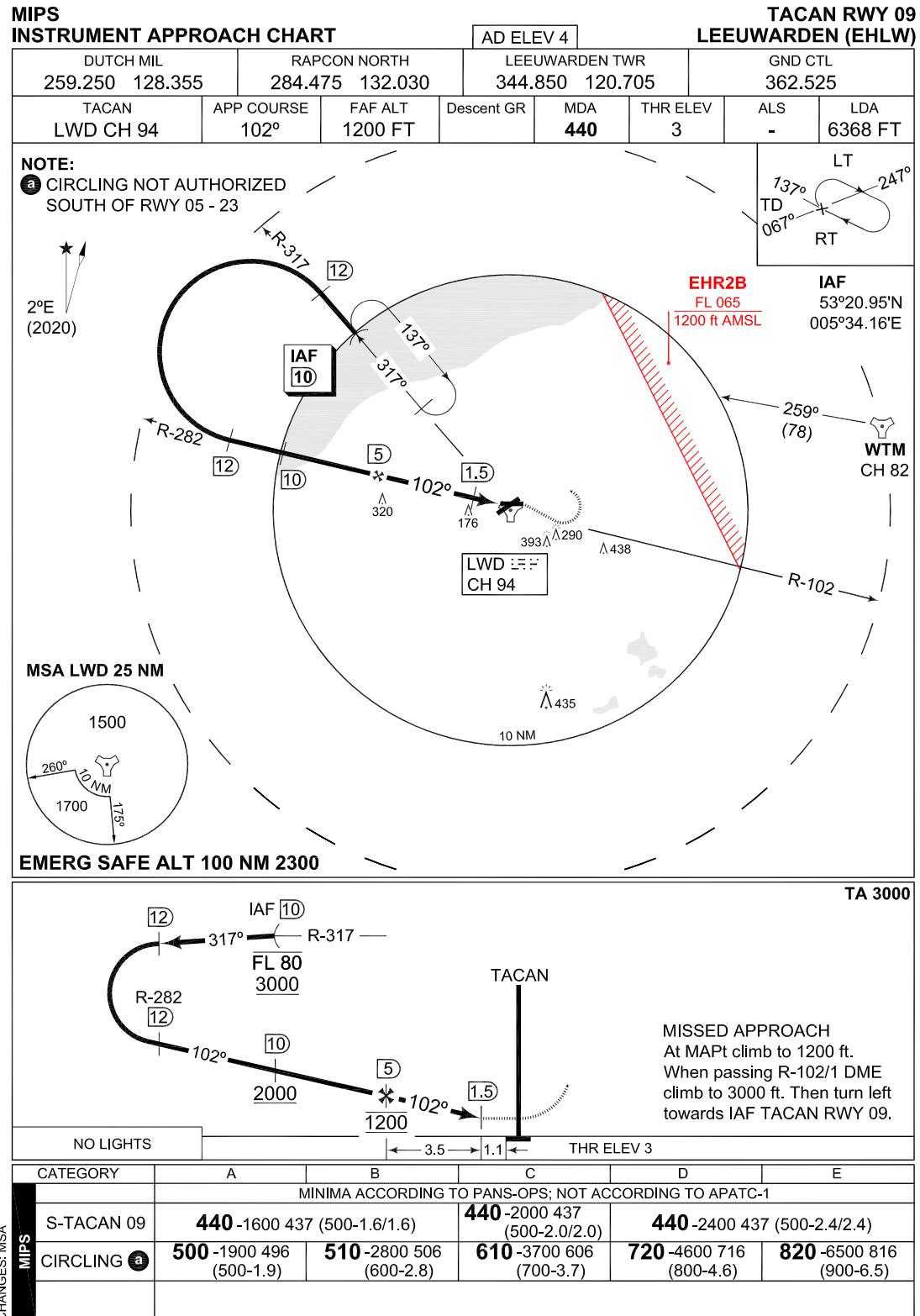


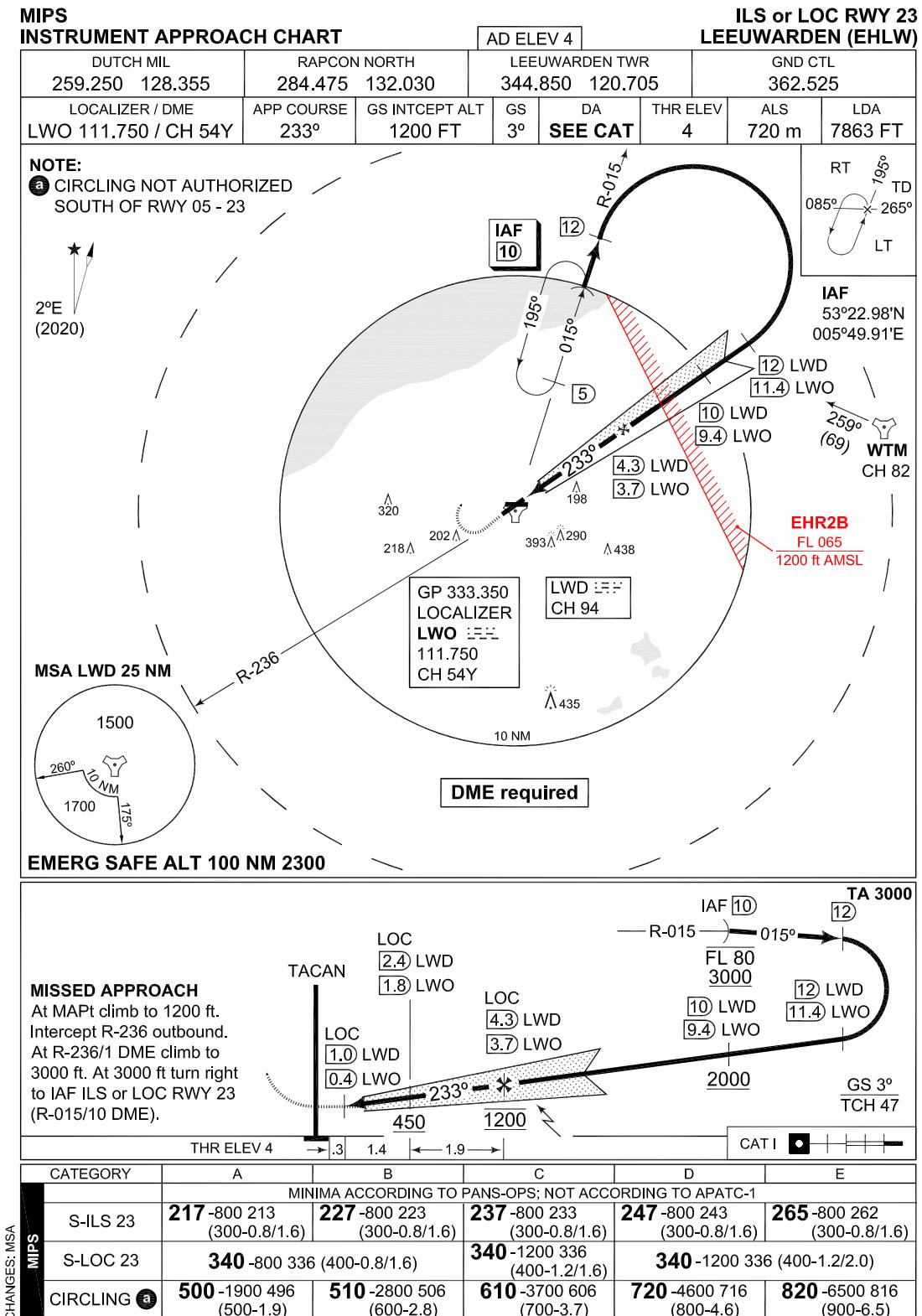
RNLAf 23 MAR 2023

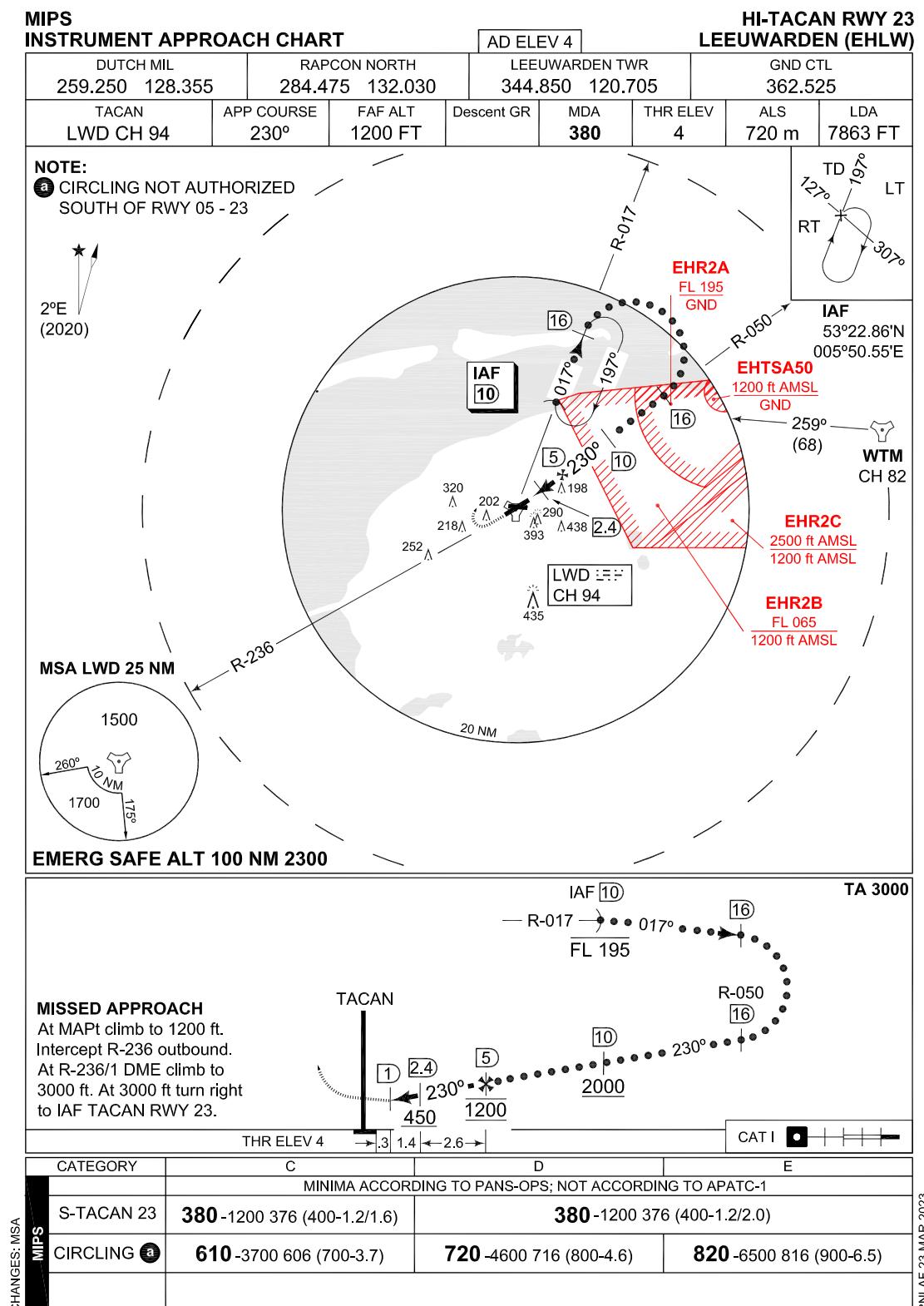


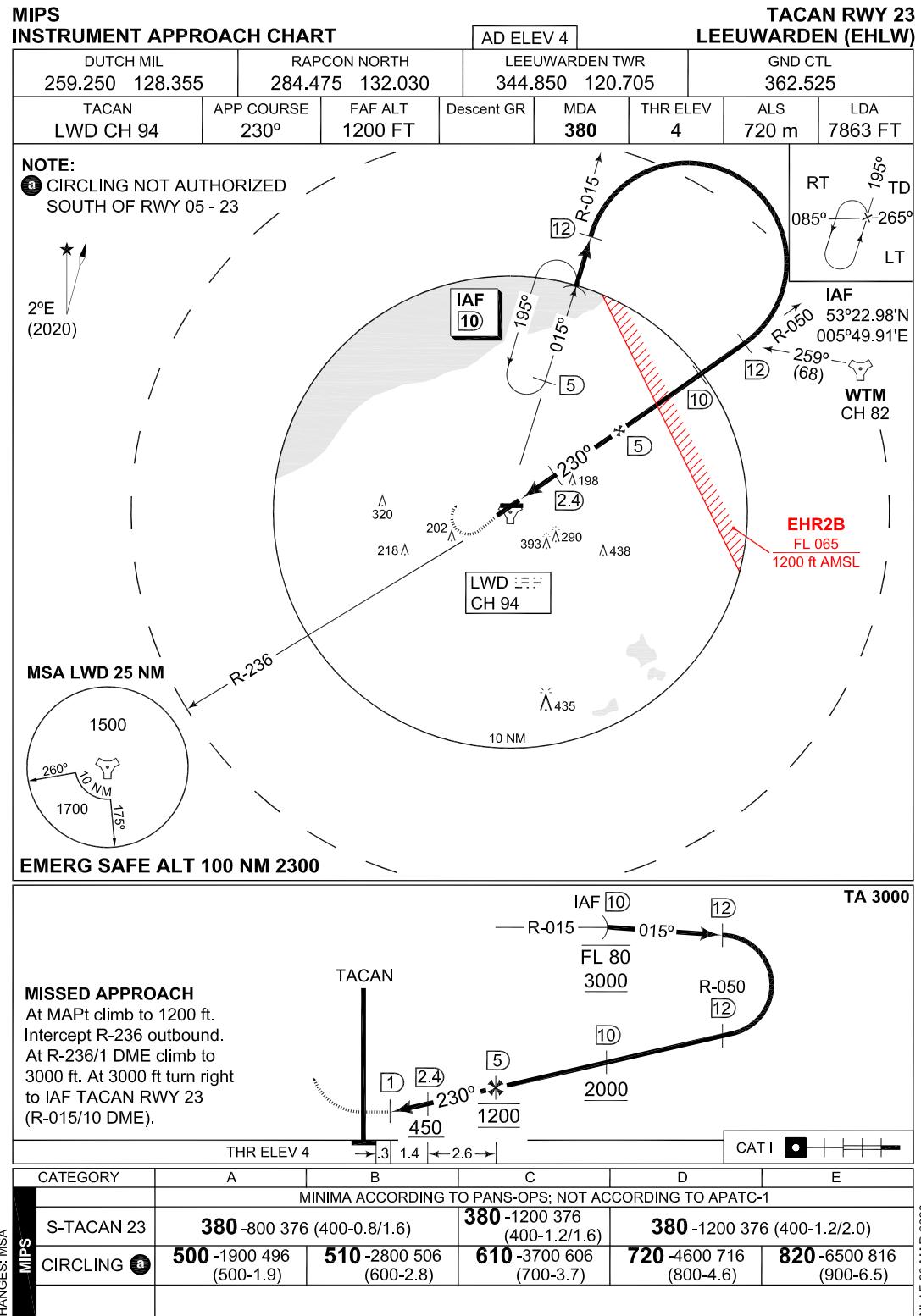


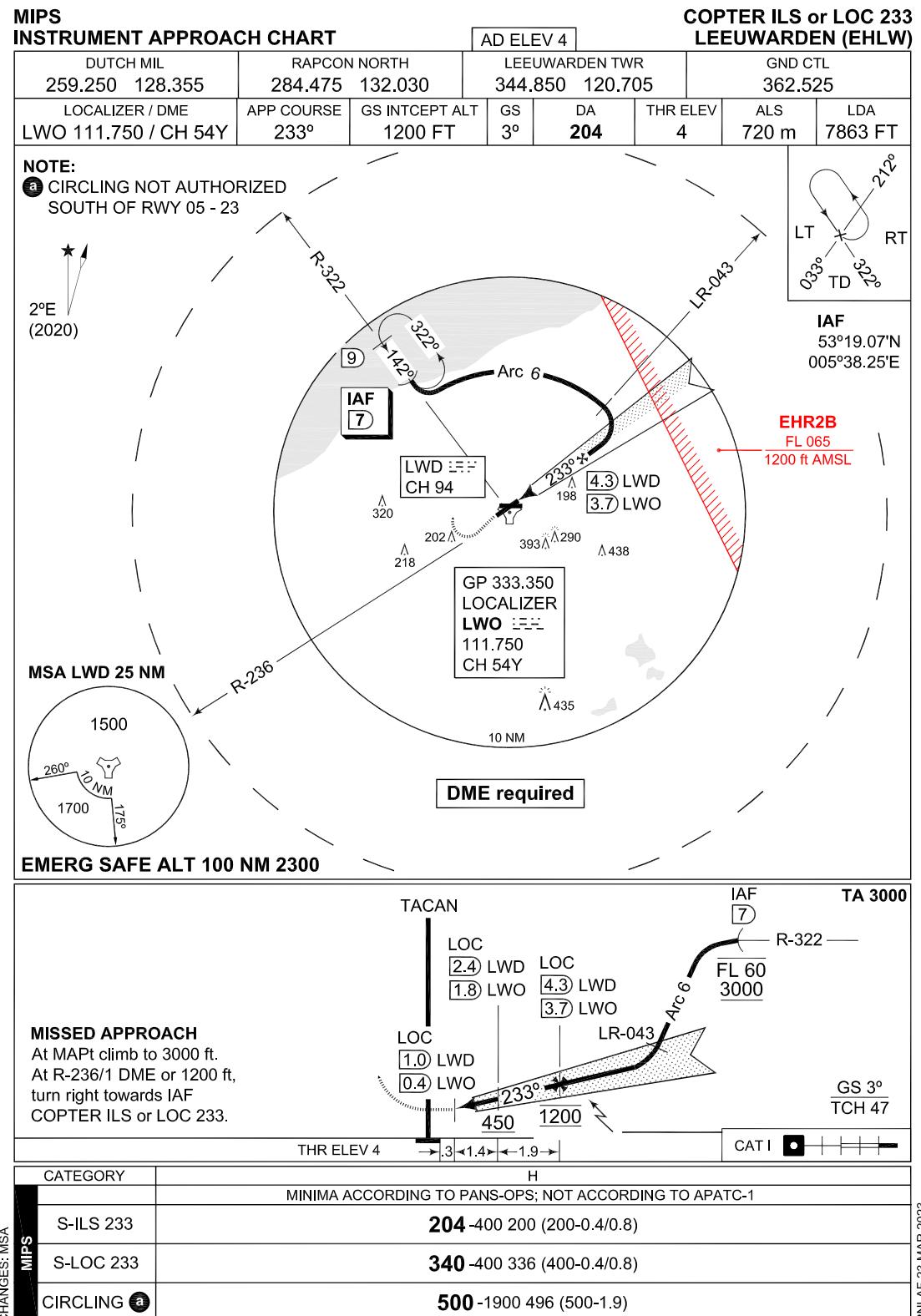


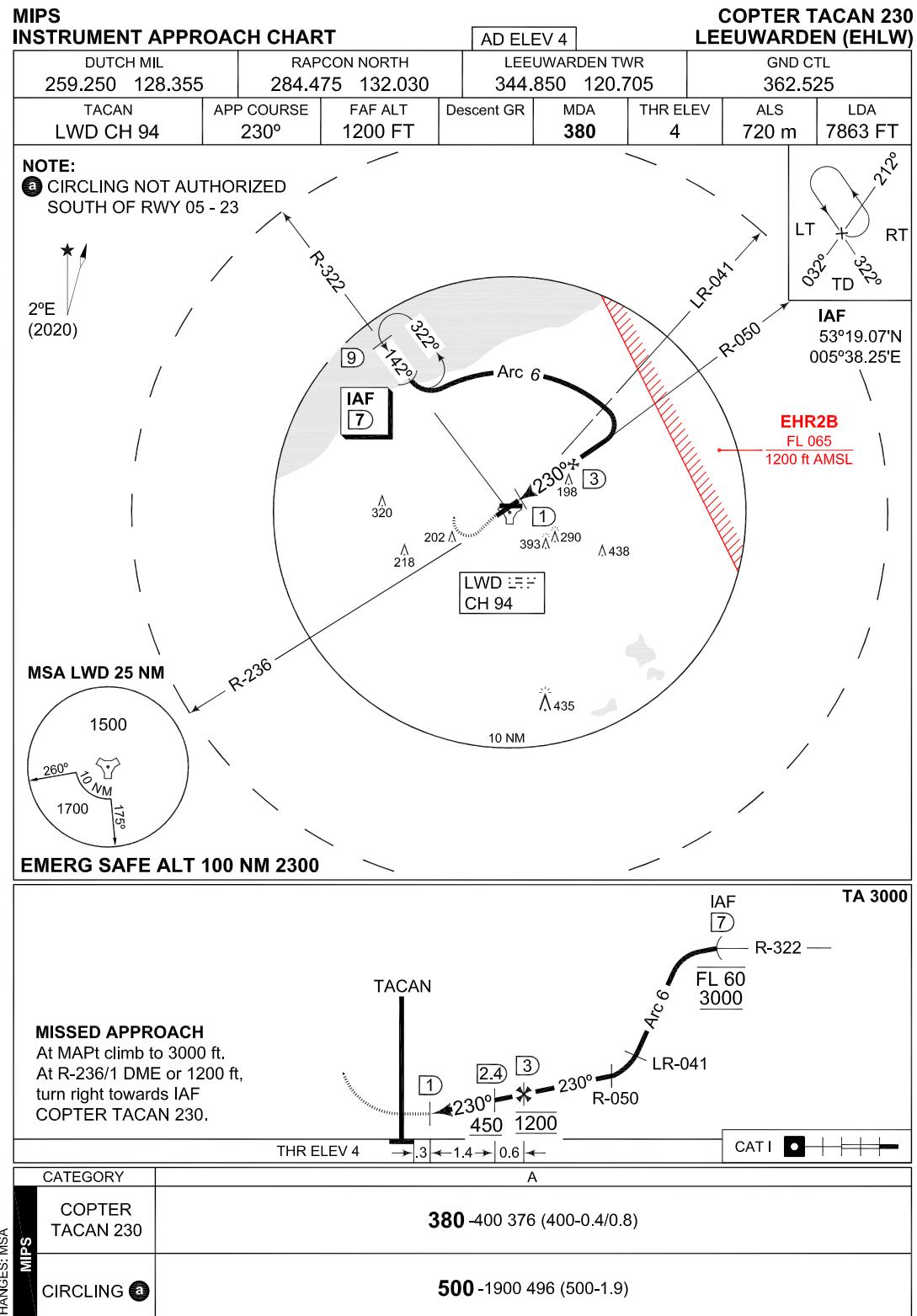


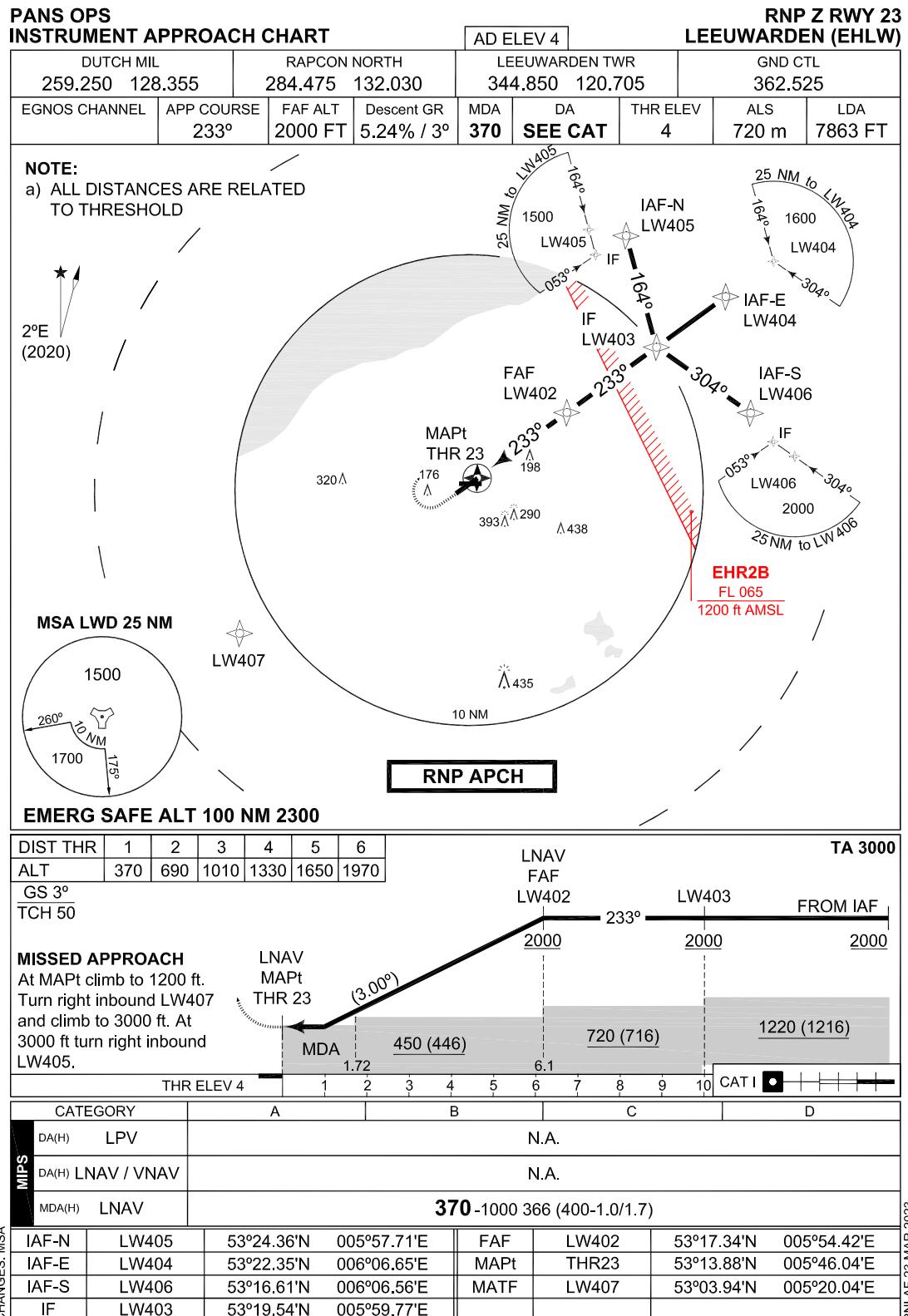


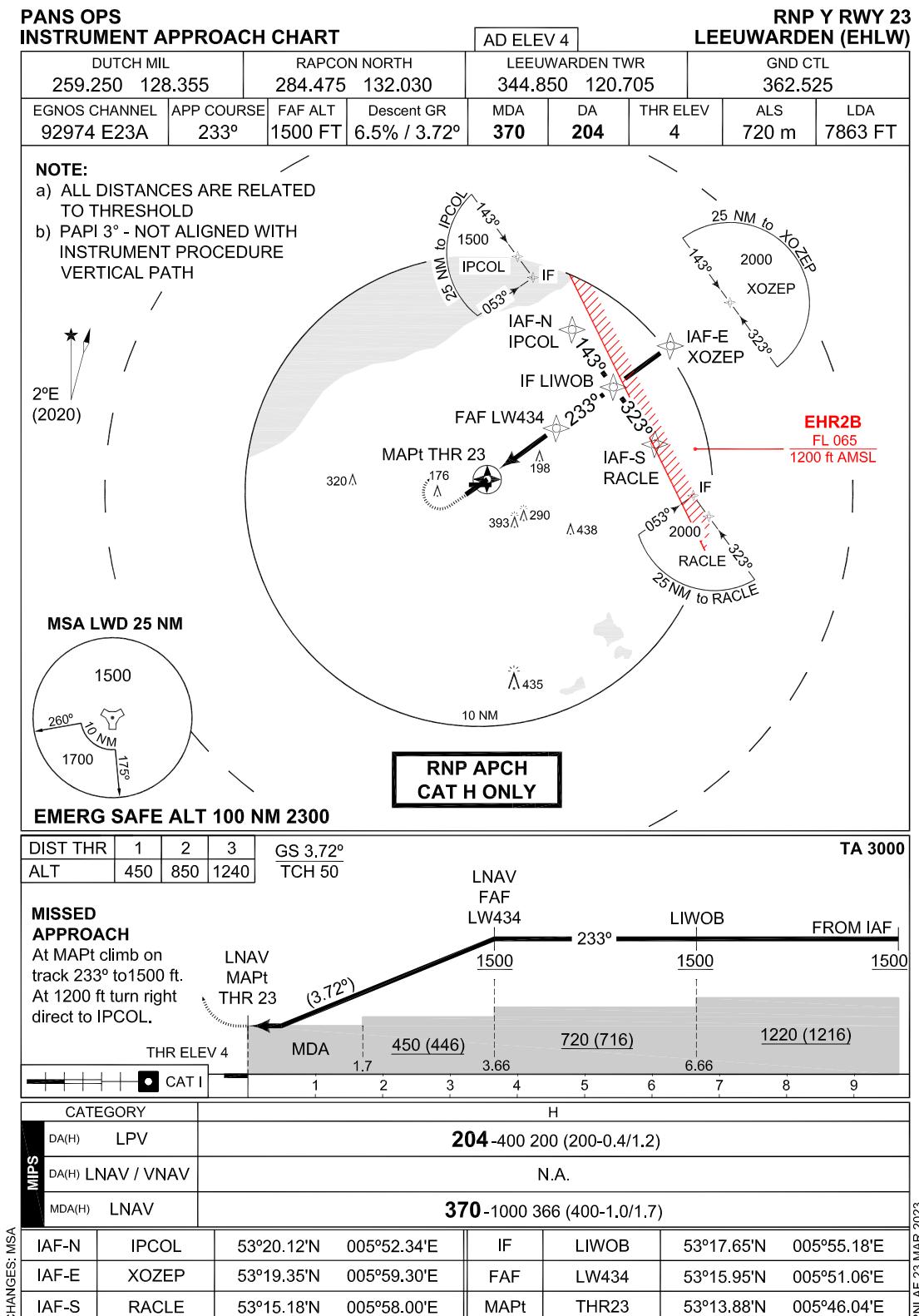


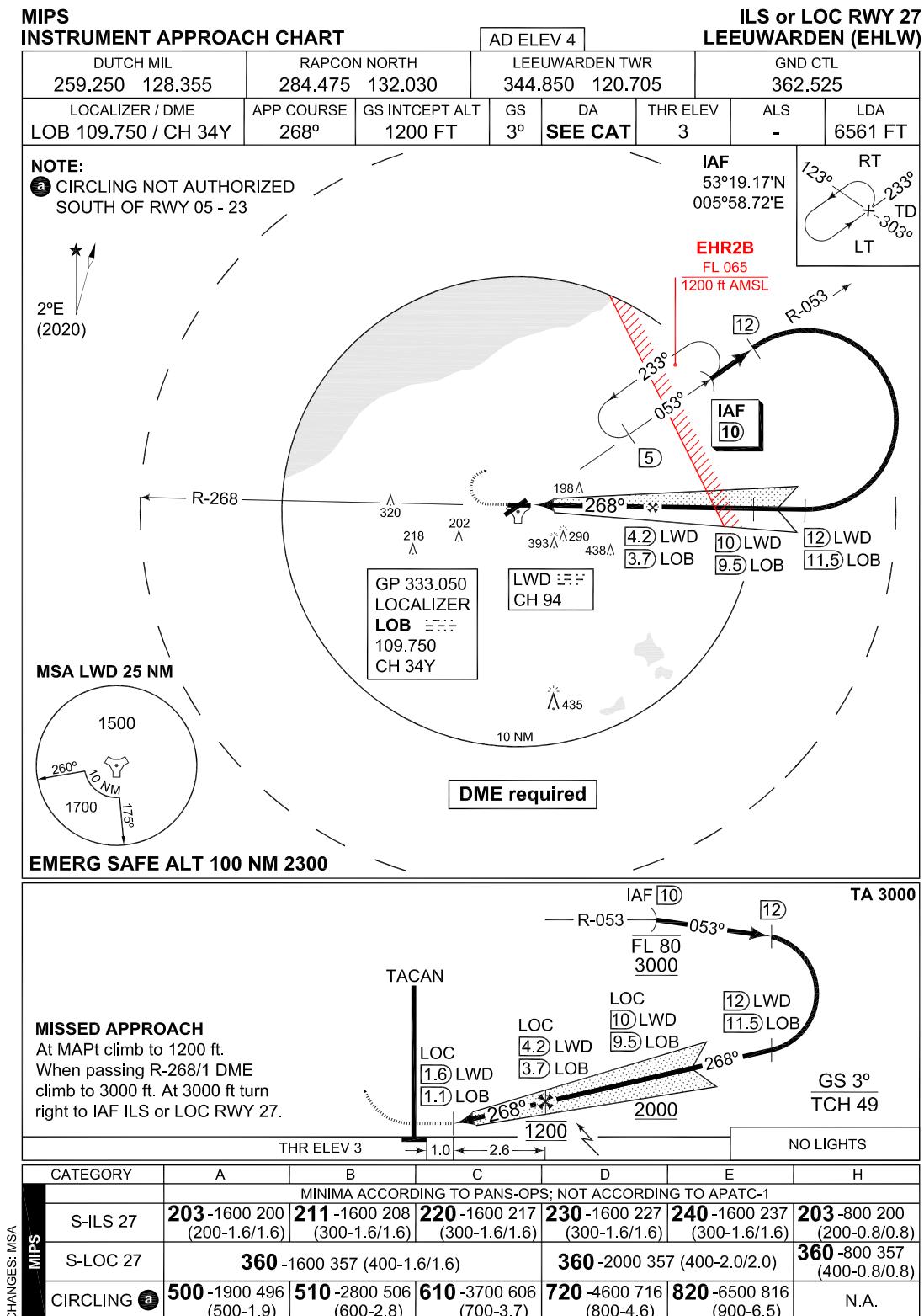


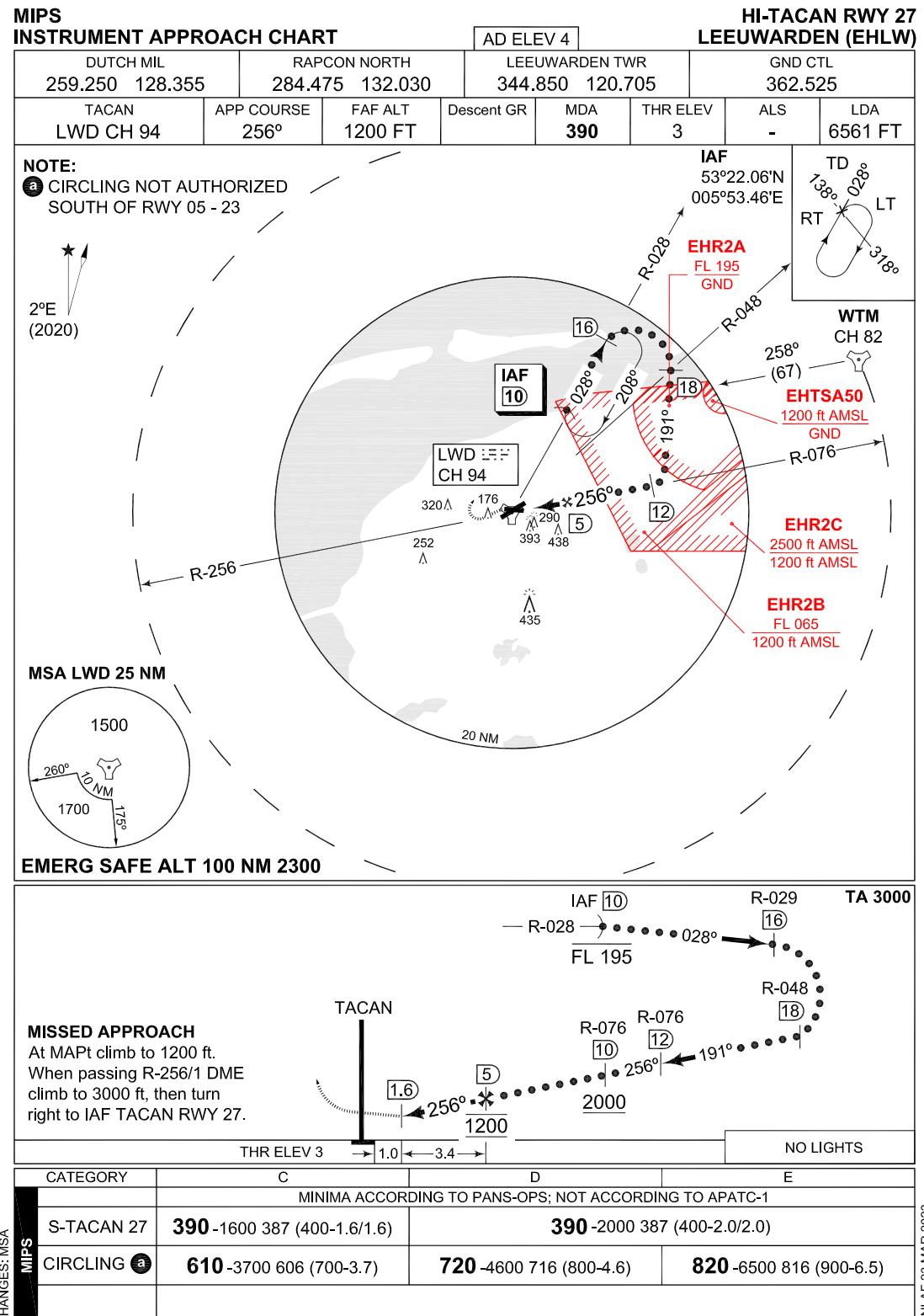


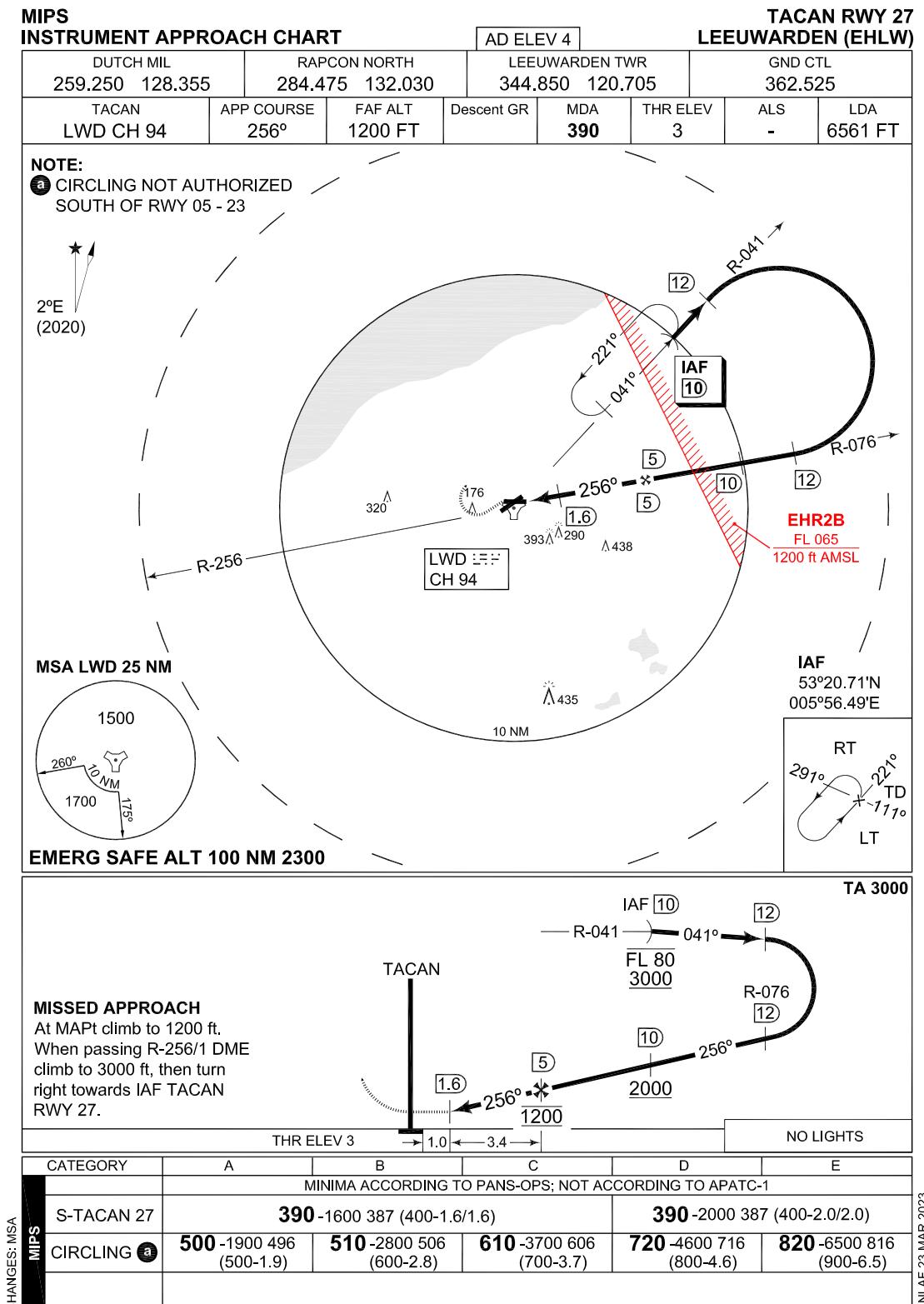












PART 3 – AERODROMES (AD)

AD 2.

**AD 2. AERODROMES
VOLKEL**

VOLKEL

EHVK AD 2.1 Aerodrome location indicator and name

EHVK - Volkel

EHVK AD 2.2 Geographical and administrative data

| | | |
|---|--|--|
| 1 | ARP | 51°39'25.95"N 005°42'28.17"E |
| 2 | Direction and distance from city | 213° MAG/12.6 NM NIJMEGEN |
| 3 | Elevation/Reference temperature | + 73 ft AMSL/22.2° C (JUL) |
| 4 | MAG VAR/Annual change | 1°56' E (JAN 2020)/11'E |
| 5 | AD operating authority Postal address Visitors' address Telephone E-mail AFTN | RNLAF DIB loket CLSK Vliegbasis Volkel MPC 86A P.O. Box 8762 4820 BB Breda Zeelandsestraat 10 5408 ZW Volkel +31(0)413 276911 vkl.lvl.lw.clsk@mindef.nl EHVKZTZX |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHVK AD 2.3 Operational hours

| | | |
|----|----------------------------|-------------------------------|
| 1 | AD OPR HR | MON/FRI 0700/1545 (0600/1445) |
| 2 | Customs and immigration | 2 HR PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | HO |
| 5 | ATS Reporting Office (ARO) | HO |
| 6 | MET Briefing Office | HO |
| 7 | ATS | HO |
| 8 | Fuelling | HO |
| 9 | Handling | HO |
| 10 | Security | HO |
| 11 | De-icing | HO |
| 12 | Remarks | PPR 24 HRS. See 2.23 |

EHVK AD 2.4 Handling services and facilities

| | | |
|----|--------------------------------|--|
| 1 | Cargo-handling facilities | Yes |
| 2 | Fuel/oil types | F-34, H-515, O-148, O-155, O-156 |
| 3 | Fuelling facilities/capacity | No limitations |
| 4 | Oxygen | LHOX, LOX |
| 5 | Nitrogen | LPNIT, HPNIT |
| 6 | De-icing facilities/type | S-738, S-742 |
| 7 | Starting units | DSA 150, DSA600, SO 8.5, JAS, EC 3500, DC 3500 |
| 8 | Hangar space for visiting ACFT | No |
| 9 | Repair facilities | F16 |
| 10 | Remarks | Nil |

EHVK AD 2.5 Passenger facilities

| | | |
|---|--------------------|----------------------------|
| 1 | Remain overnight | AVBL O/R |
| 2 | Medical facilities | Medical officer, ambulance |
| 3 | Remarks | Nil |

EHVK AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|------------|
| 1 | AD category for fire fighting | NATO CAT 7 |
| 2 | Remarks | Nil |

EHVK AD 2.7 Seasonal availability - clearing

| | | |
|---|------------------------|---|
| 1 | Seasonal availability | All seasons |
| 2 | Snow removal equipment | Yes |
| 3 | Remarks | Caution advised in winter during ice conditions |

EHVK AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|---|
| 1 | Apron surface and strength | North of beginning RWY 06, PCN: 61 R/B/W/T E – E1, PCN 65 R/B/W/T |
| 2 | TWY width, surface and strength | Width 39 ft, PCN: 42 R/B/W/T |
| 3 | Remarks | Max. Wingspan TWY: 39 ft |

EHVK AD 2.9 Surface movement guidance and control system and markings

| | |
|-----------------------|---------|
| According STANAG 3158 | |
| 1 | Remarks |

EHVK AD 2.10 Aerodrome obstacles

Obstacles along RWYs and TWYs do not confirm to standard obstacle clearance requirements.
See Aerodrome Chart.

EHVK AD 2.11 Meteorological information provided

| | | |
|---|--|---|
| 1 | Associated MET Office | Volkel |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHVK 0413-278047 or mail VKL.Meteo@mindef.nl Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHVK AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|--|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | 24R: 30 R/B/W/T 06L: 30 R/B/W/T 24L: 27 R/B/W/T 06R: 27 R/B/W/T |

EHVK AD 2.13 Declared distances

| RWY | TORA | TODA | ASDA | LDA | RMK |
|------------|-------------|-------------|-------------|------------|-------------------------------|
| 24R | 9922 | 9922 | 9922 | 9498 | |
| | 9479 | 9479 | 9479 | NA | Take-off from intersection A |
| | 8307 | 8307 | 8307 | NA | Take-off from intersection B |
| | 7631 | 7631 | 7631 | NA | Take-off from intersection C |
| | 6787 | 6787 | 6787 | NA | Take-off from intersection D |
| | 5500 | 5500 | 5500 | NA | Take-off from intersection E |
| 06L | 9922 | 9922 | 9922 | 9500 | |
| | 9481 | 9481 | 9481 | NA | Take-off from intersection H |
| | 8976 | 8976 | 8976 | NA | Take-off from intersection G |
| | 6851 | 6851 | 6851 | NA | Take-off from intersection F |
| | 4776 | 4776 | 4776 | NA | Take-off from intersection E |
| 24L | 9931 | 9931 | 9931 | 9487 | |
| | 9484 | 9484 | 9484 | NA | Take-off from intersection AP |
| | 8314 | 8314 | 8314 | NA | Take-off from intersection BP |
| | 6897 | 6897 | 6897 | NA | Take-off from intersection DP |
| | 5486 | 5486 | 5486 | NA | Take-off from intersection EP |
| 06R | 9931 | 9931 | 9931 | 9485 | |
| | 9483 | 9483 | 9483 | NA | Take-off from intersection HP |
| | 6751 | 6751 | 6751 | NA | Take-off from intersection FP |
| | 4649 | 4649 | 4649 | NA | Take-off from intersection EP |

EHVK AD 2.14 Approach and runway lighting

| According STANAG 3316 | | |
|-----------------------|-------------------|--|
| 1 | Approach lighting | RWY 24R: CAT I. 852 m RWY 06L: CAT I. 880 m RWY 24L: SALS. 423 m RWY 06R: SALS. 420 m |
| 2 | RWY lighting | VCL, VHI |
| 3 | PAPI | Situated on the left side of all RWYs |
| 4 | Remarks | Nil |

EHVK AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|-----------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | VB |
| 3 | Emergency RWY lighting | Nil |
| 4 | Emergency TWY edge lighting | Retroreflective markers |
| 5 | Secondary power supply/switch-over | AVBL, switch over time 15 seconds |
| 6 | Remarks | Nil |

EHVK AD 2.16 Helicopter landing area

| | | |
|---|----------|---|
| 1 | Location | Westside of the AD, between TWY and RWY, north of the beginning of RWY 06L. See Aerodrome Chart |
| 2 | Marking | Daylight marking |
| 3 | Lighting | Yes |
| 4 | Remarks | Nil |

EHVK AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|---|
| 1 | Designation and lateral limits | Volkel control zone 51°38'52.86"N 005°23'22.88"E; 51°45'05.93"N 005°33'24.21"E; along clockwise arc (radius 8 NM, centre 51°39'25.95"N 005°42'28.17"E) to 51°33'45.27"N 005°51'29.87"E; 51°27'33.73"N 005°41'28.57"E; to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Volkel TWR. English Outside HO DUTCH MIL INFO FREQ 132.350 MHZ. |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHVK AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|--|-------|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Volkel Tower | 136.080*) 122.100 291.100*) 257.800 | HO | *) Primary FREQ Radar equipped |
| GND CTL | Volkel Ground | 386.775 | HO | |
| APP | RAPCON South | 123.180*) 122.100 388.525*) | HO | |
| RADAR | Volkel Arrival | 122.100 291.200 | HO | Through APP |

EHVK AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|----------------------|-----|------------------|-------|---------------------------------|--------------------|---------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| DME 24R | VLO | CH 44Y | HO | 51°39'46.53"N 005°43'12.18"E | | |
| ILS 24R LOCALIZER | VLO | 110.750 | HO | 51°38'57.80"N 005°41'15.89"E | | |
| GP 24R | | 330.050 | HO | 51°39'46.53"N 005°43'12.18"E | | |
| DME 06L | VLZ | CH 44Y | HO | 51°39'04.57"N 005°41'45.19"E | | |
| ILS 06L LOCALIZER | VLZ | 110.750 | HO | 51°39'53.89"N 005°43'39.91"E | | |
| GP 06L | | 330.050 | HO | 51°39'04.57"N 005°41'45.19"E | | |
| TACAN | VKL | CH 20X | H24 | 51°39'19.55"N 005°42'25.12"E | 200 NM/60000 ft | FREQ pro- tected |

EHVK AD 2.20 Local traffic regulations Glider- and Light ACFT flying

Gliderflying outside OPR HR SR/SS.

EHVK AD 2.21 Noise abatement procedures

Noise abatement procedures are included in the flight procedures.

EHVK AD 2.22 Flight procedures

IFR procedures

The IAP and SID procedures are established in accordance STANAG 3759 and AATCP-1.

VFR Departure procedures

JET AIRCRAFT.

Runway 24: Leaving procedures are standard to the north. Standard leaving altitude is 2000 ft AMSL. Stay clear of the village of Volkel. Turn to the north-west and proceed between Uden and Veghel. Leaving procedures following a route between Airbase Volkel and Uden is prohibited.

Runway 06: Leaving procedures are standard to the North. Standard leaving altitude is 2000 ft AMSL. Do not turn to the north before 1,5 DME TACAN. Stay clear of the villages of Zeeland and Mill.

Note: Deviation from the above mentioned procedures i.e. leaving direction or altitude only after permission from TWR.

HELICOPTERS.

As directed by TWR.

CONVENTIONAL AIRCRAFT.

As directed by TWR.

VFR ARRIVAL PROCEDURES

JET AIRCRAFT.

Overhead Pattern: Initial points (IP) are approximately 3 NM from threshold, just north of the extended centerlines. IP's shall be joined from the north at 2500 ft AMSL. Joining from the south only after permission from TWR. IP shall be joined at 2000 ft AMSL. The break shall be executed to the south: a left-hand break for runway 24, a right-hand break for runway 06, at 1500 ft AMSL.

Closed-pattern: Rejoining downwind only after permission from TWR. Aircraft shall not exceed 1000 ft AMSL until clear of airfield boundaries, in order to stay clear of traffic on the break. Aircraft shall proceed to the end of the runway before turning to downwind in order to avoid Odiliapeel.

Straight-in approaches: Only allowed after permission from TWR. Aircraft shall report 8 NM final (Cuijk or Veghel) at 1500 ft AMSL.

HELICOPTERS.

Standard helicopter approach is from the north at 500 ft AMSL. Populated areas shall be avoided. For landing the helicopter square shall be used or as directed by TWR.

CONVENTIONAL ACFT.

Conventional Pattern: Conventional traffic should join from the north at 1000 ft AMSL. Downwind is on the north side of the runway or as directed by TWR.

Straight-in approaches: Only allowed after permission from Volkel TWR. Aircraft shall report 8 NM final (CUIJK or VEGHEL) at 1500 ft AMSL.

WARNING

Avoid Reek Area (EHR 62)(demolition of explosives) position
51°43'42.00"N 005°41'33.00"E, radius 1 NM altitude 1000 ft AMSL.
See also AIP Netherlands ENR 5.1

EHVK AD 2.23 Additional information

AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.

Tel: +31(0)20 4062840
Tel: +31(0)20 4062841

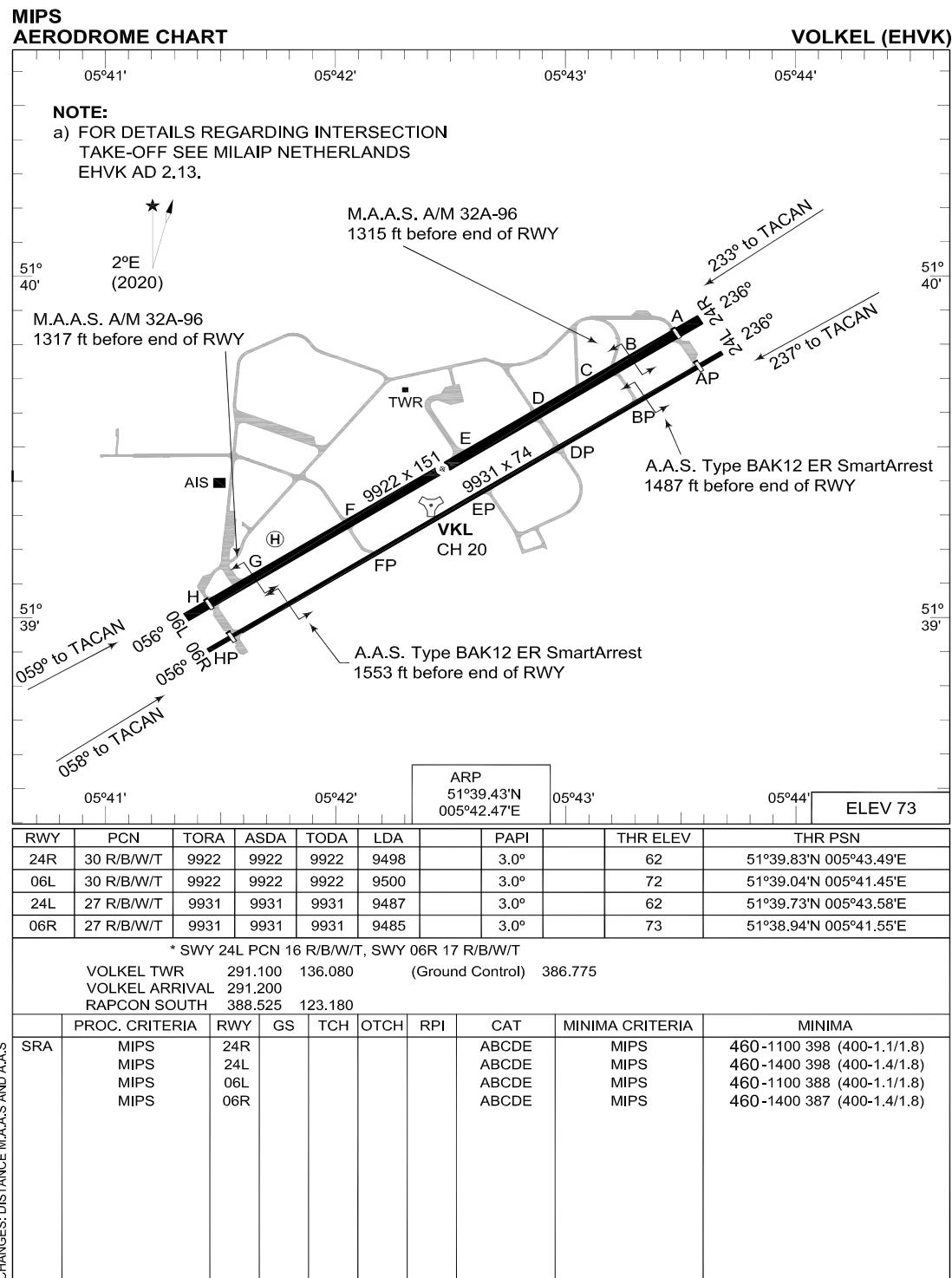
E-mail: aocs.fdno@mindef.nl
AFTN: EHMCZPZX
available H24

PPR 24 HRS: for Prior Permission Request contact:

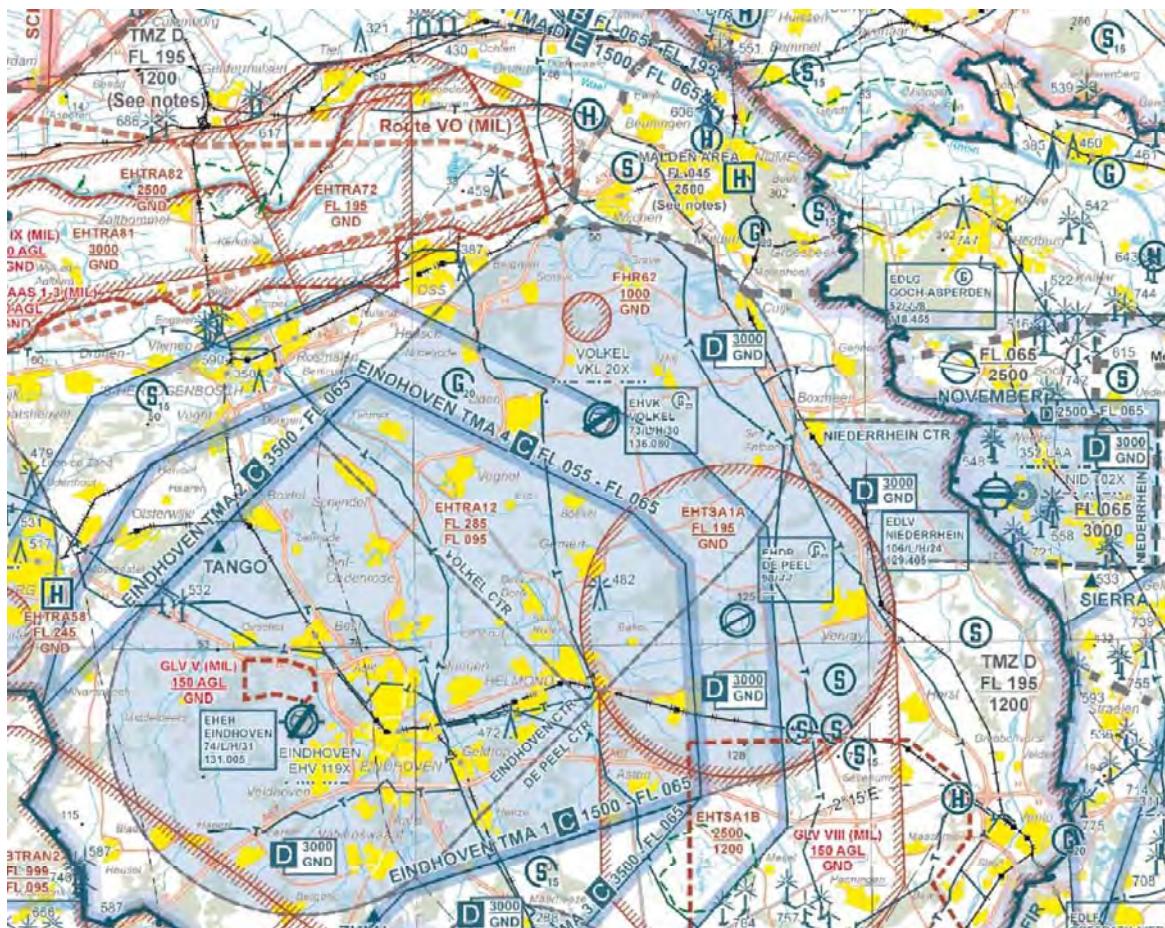
Operational and Co-ordination Centre
Tel: +31(0)413 278001/8002
Fax: +31(0)413 276558
E-mail: vkl.oc.ops@mindef.nl

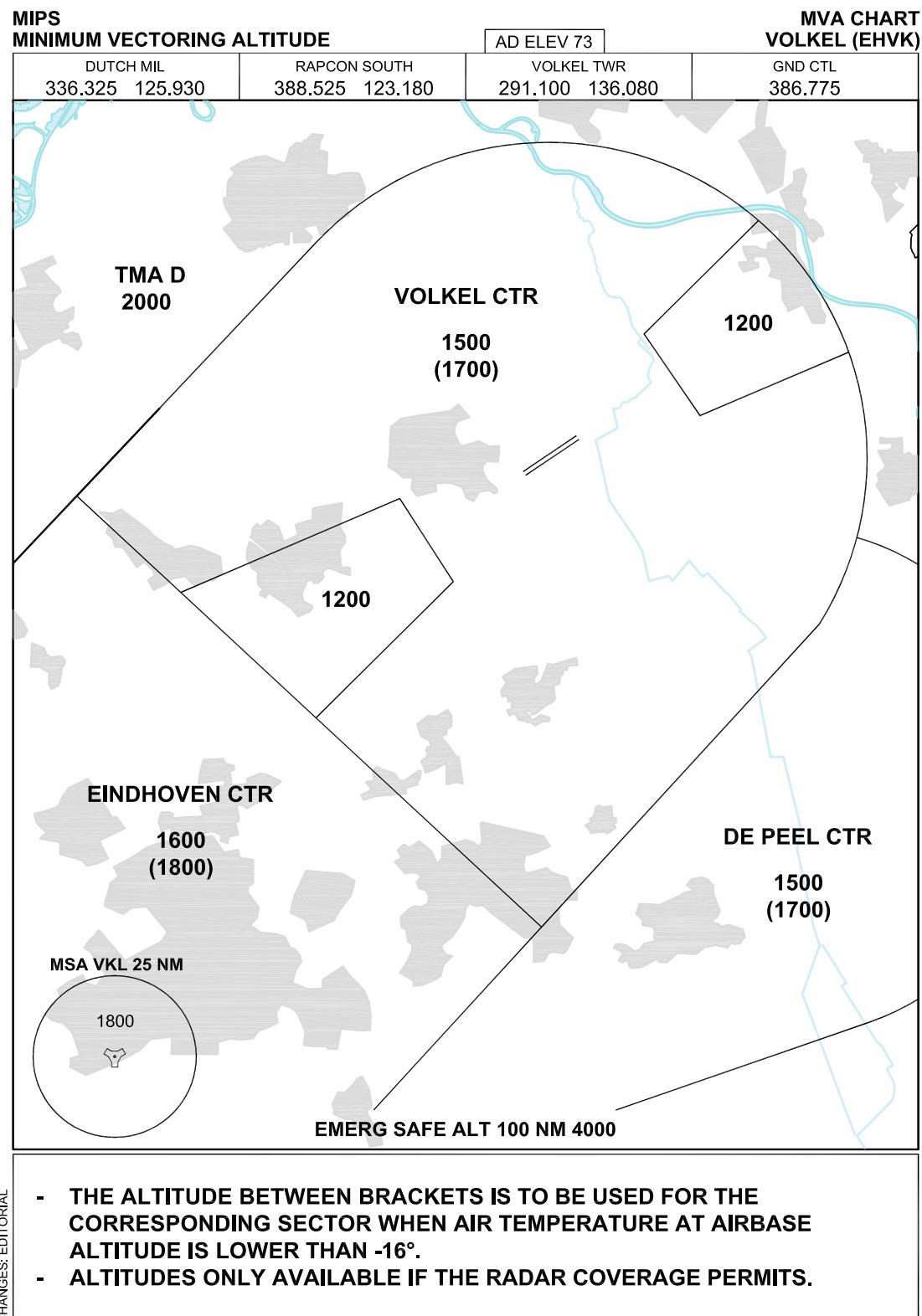
EHVK AD 2.24 Charts related to an aerodrome

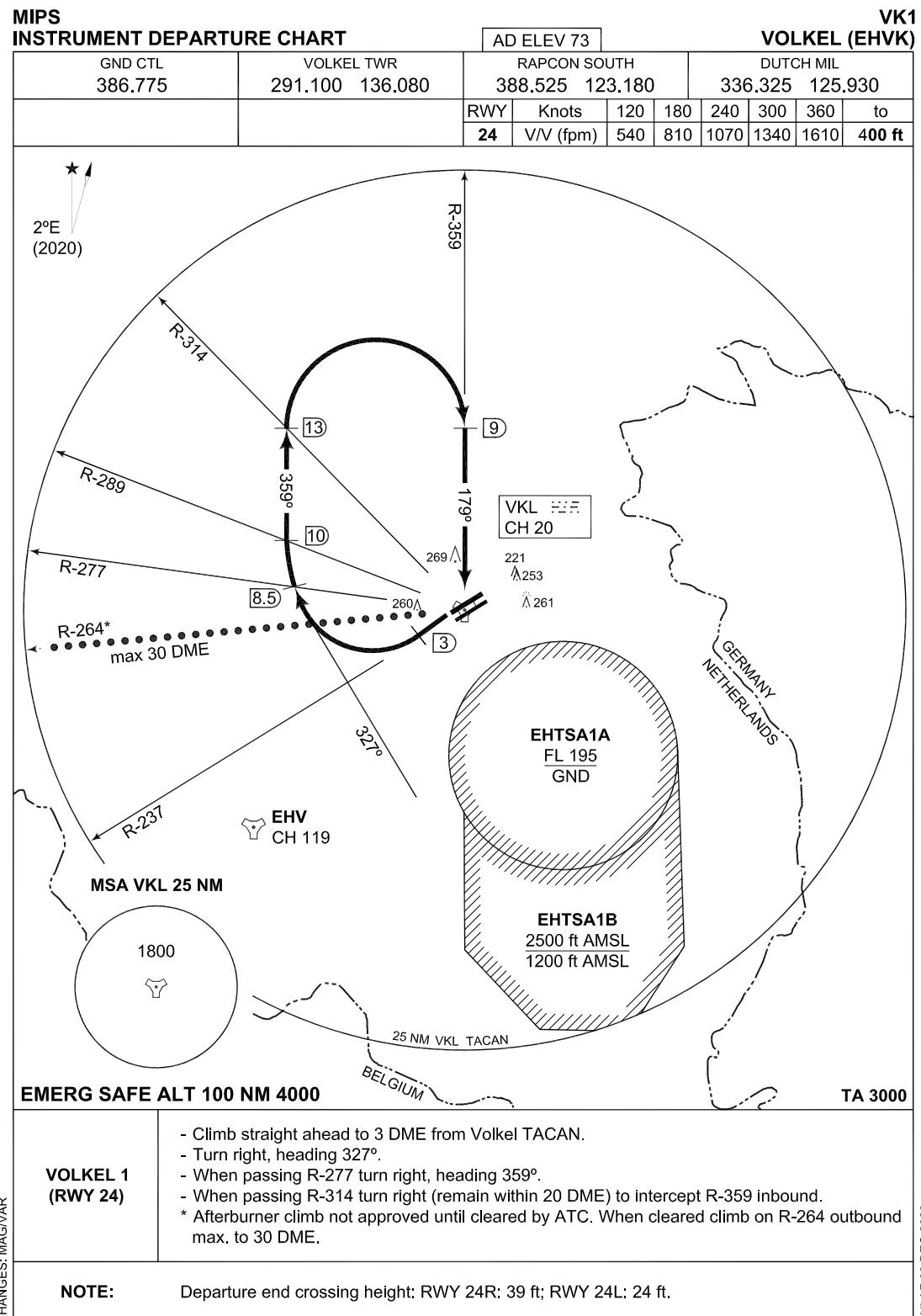
| | |
|--|--------------|
| Aerodrome Chart | EHVK AD 2-9 |
| Local map | EHVK AD 2-10 |
| MVA chart | EHVK AD 2-11 |
| Instrument departure chart VK1 | EHVK AD 2-12 |
| Instrument departure chart VK2 | EHVK AD 2-13 |
| Instrument departure chart VK3 | EHVK AD 2-14 |
| Instrument departure chart VK5 | EHVK AD 2-15 |
| Instrument departure chart VK6 | EHVK AD 2-16 |
| Instrument departure chart VK7 | EHVK AD 2-17 |
| Instrument approach chart ILS or LOC RWY 06L | EHVK AD 2-18 |
| Instrument approach chart TACAN RWY 06L/06R | EHVK AD 2-19 |
| Instrument approach chart ILS or LOC RWY 24R | EHVK AD 2-20 |
| Instrument approach chart TACAN RWY 24R/24L | EHVK AD 2-21 |

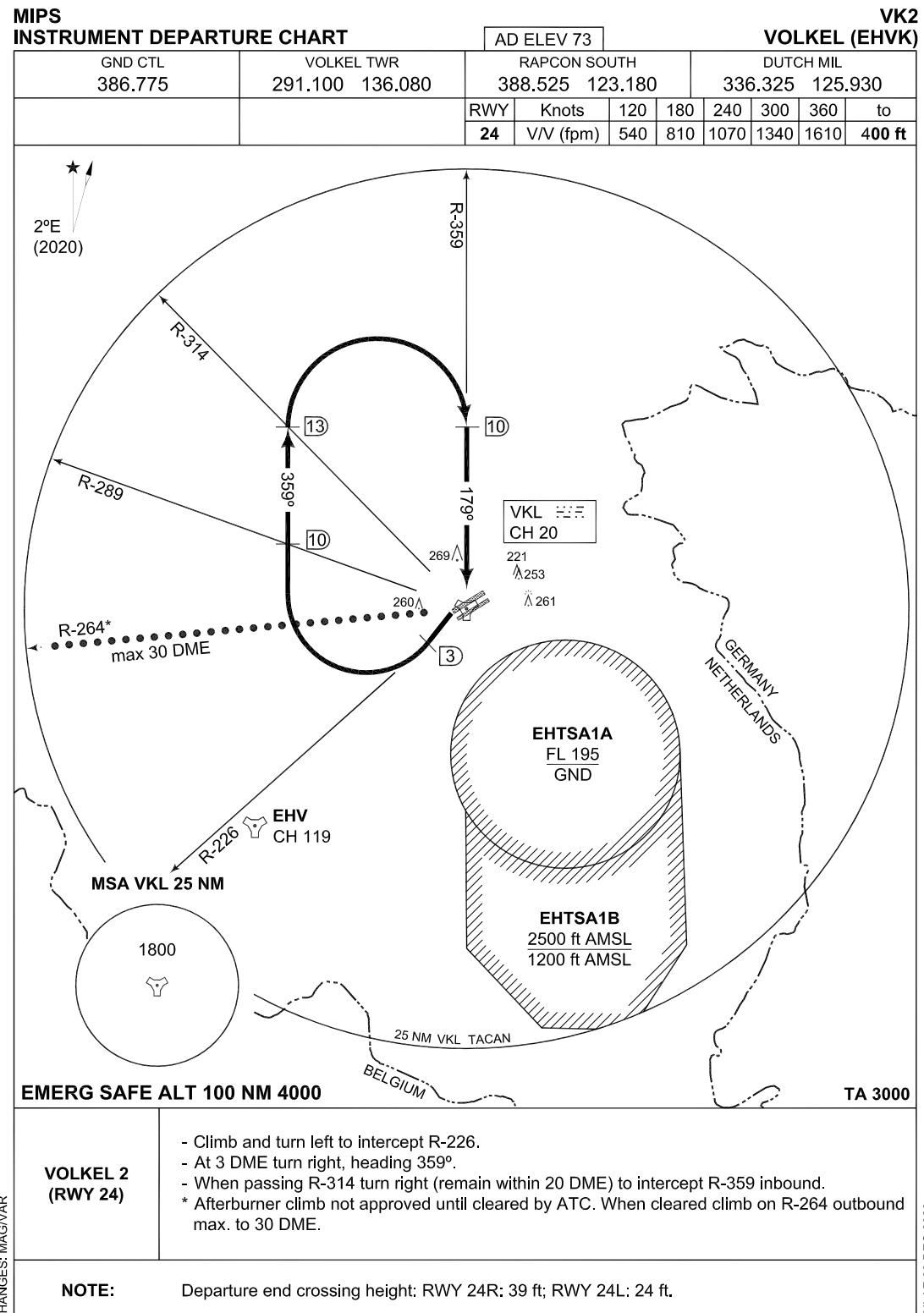


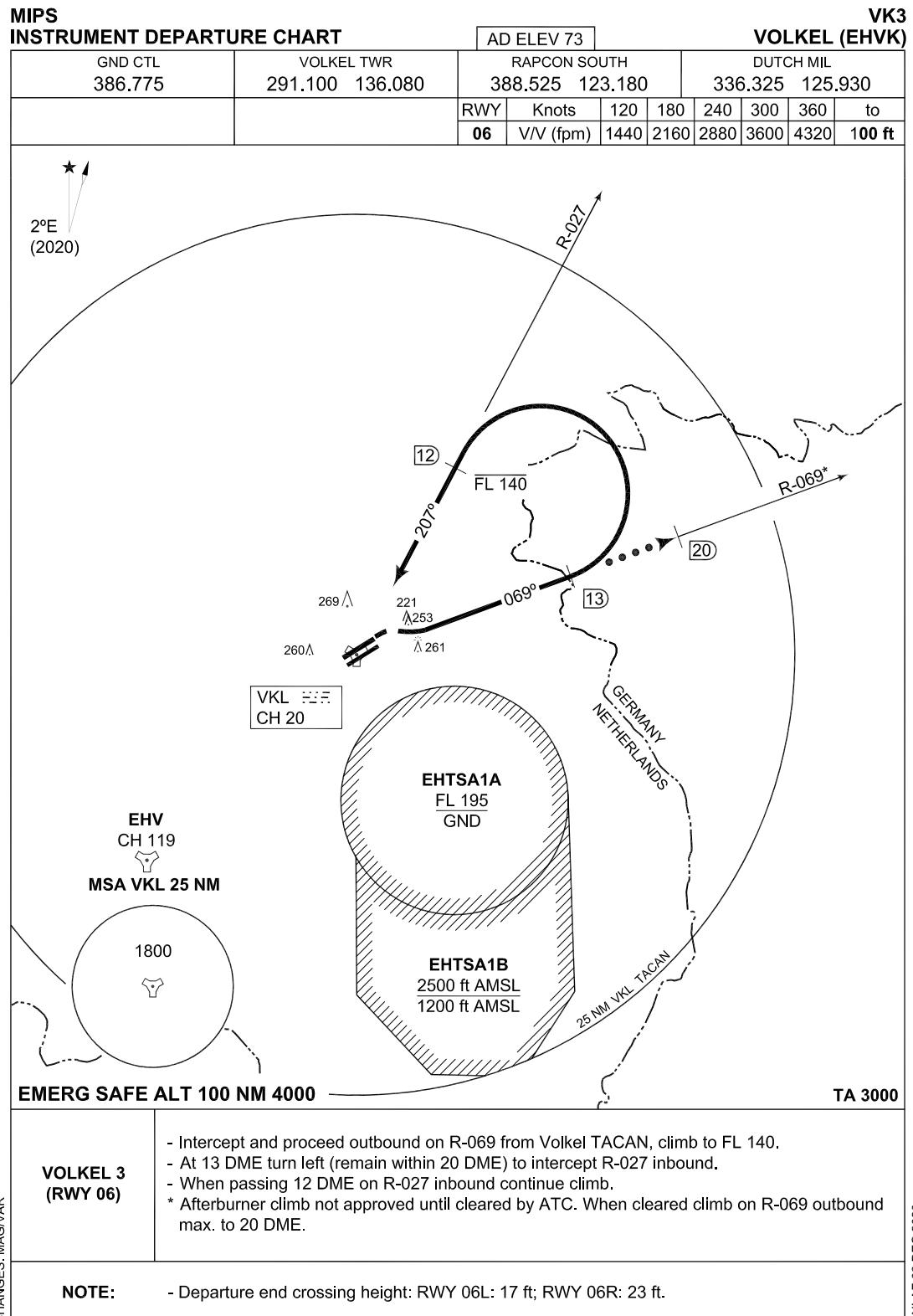
LOCAL MAP

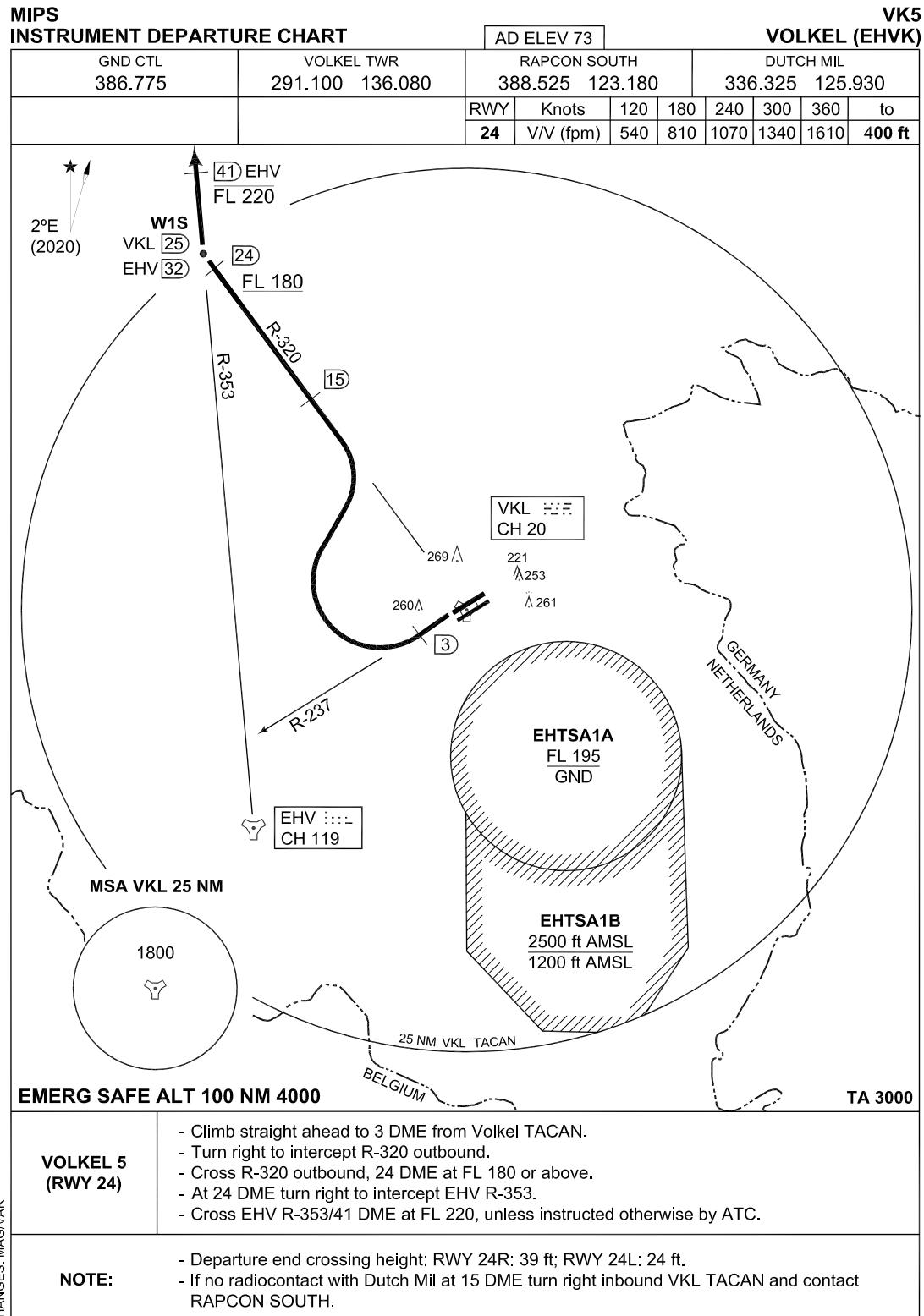




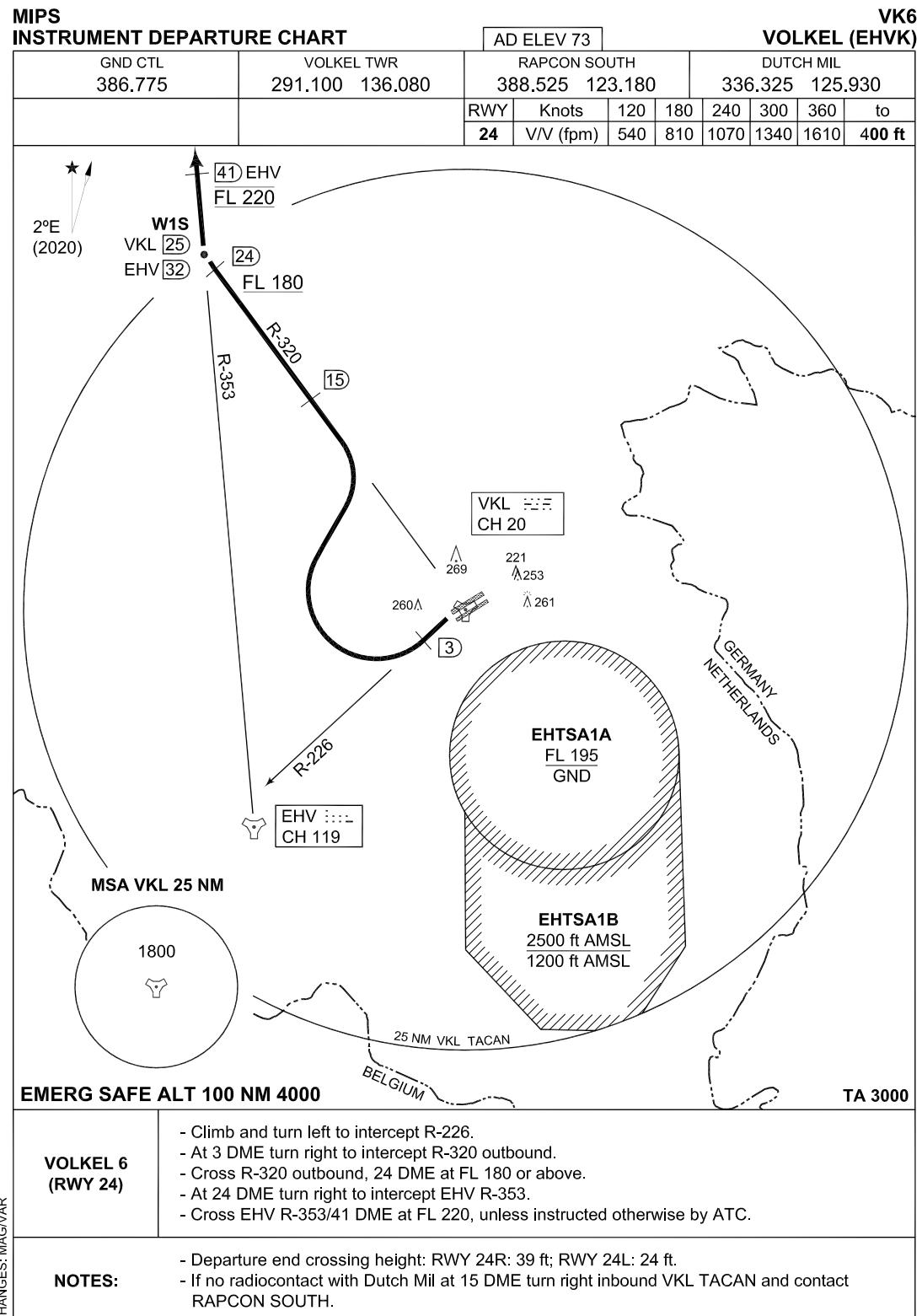


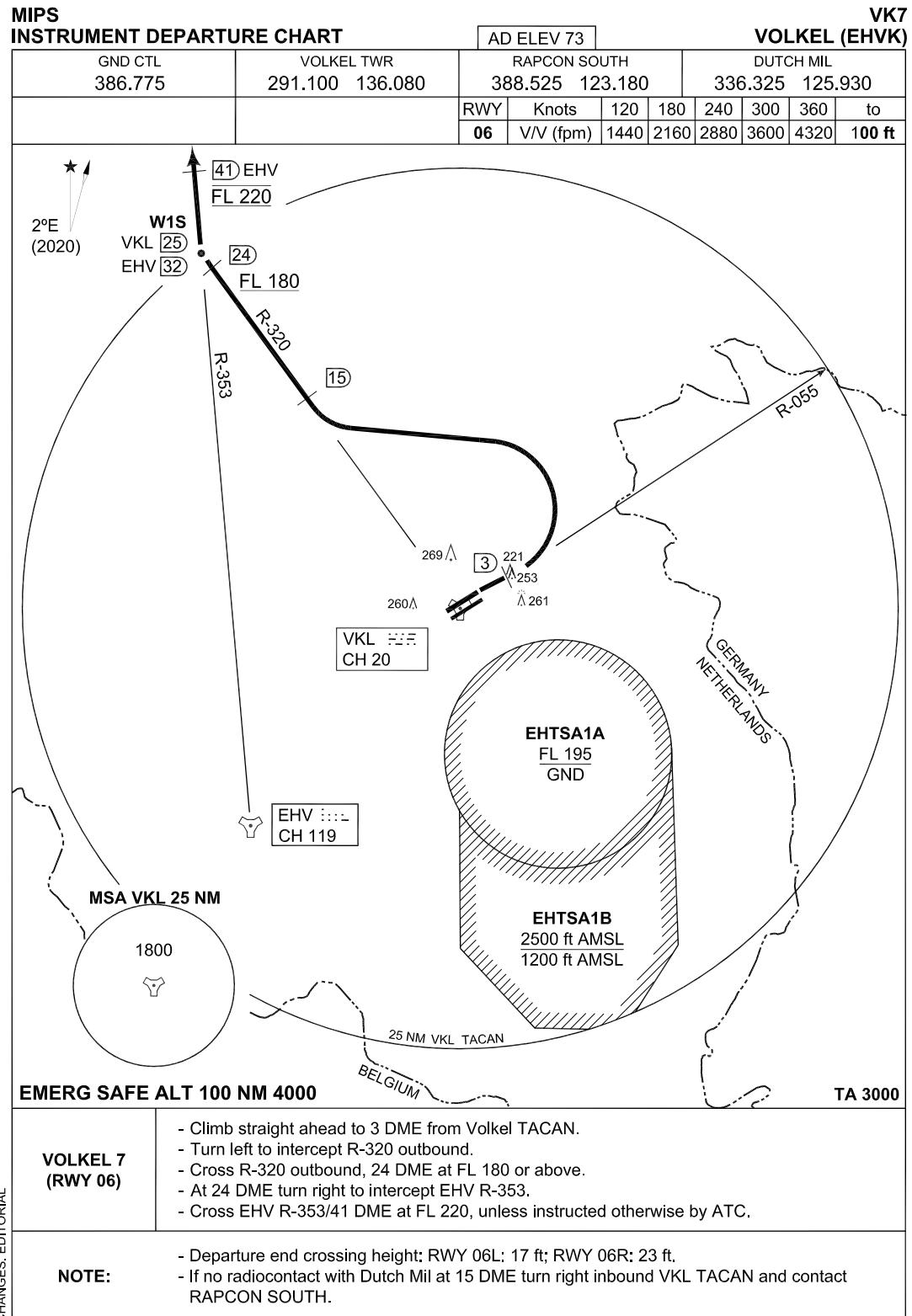


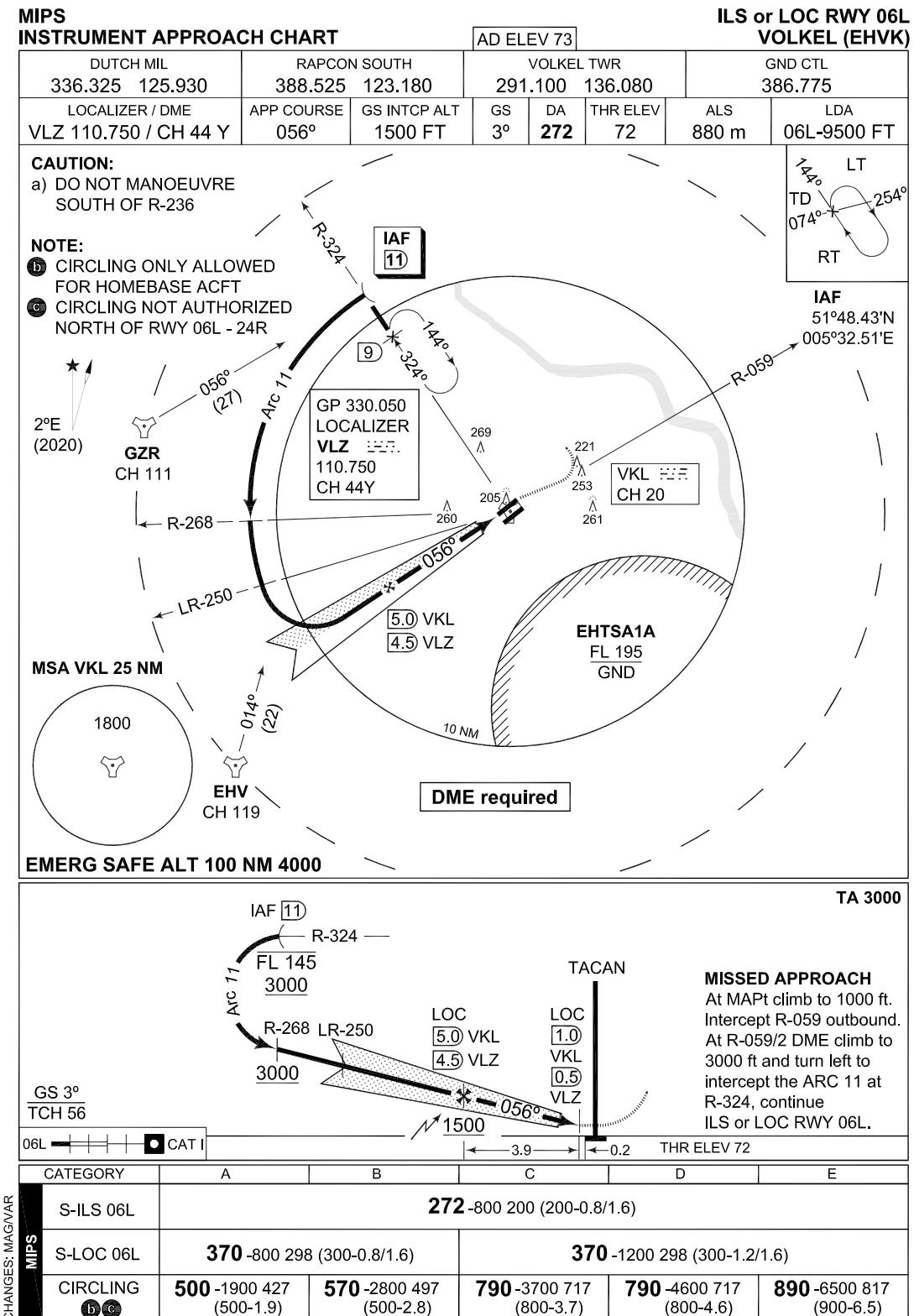


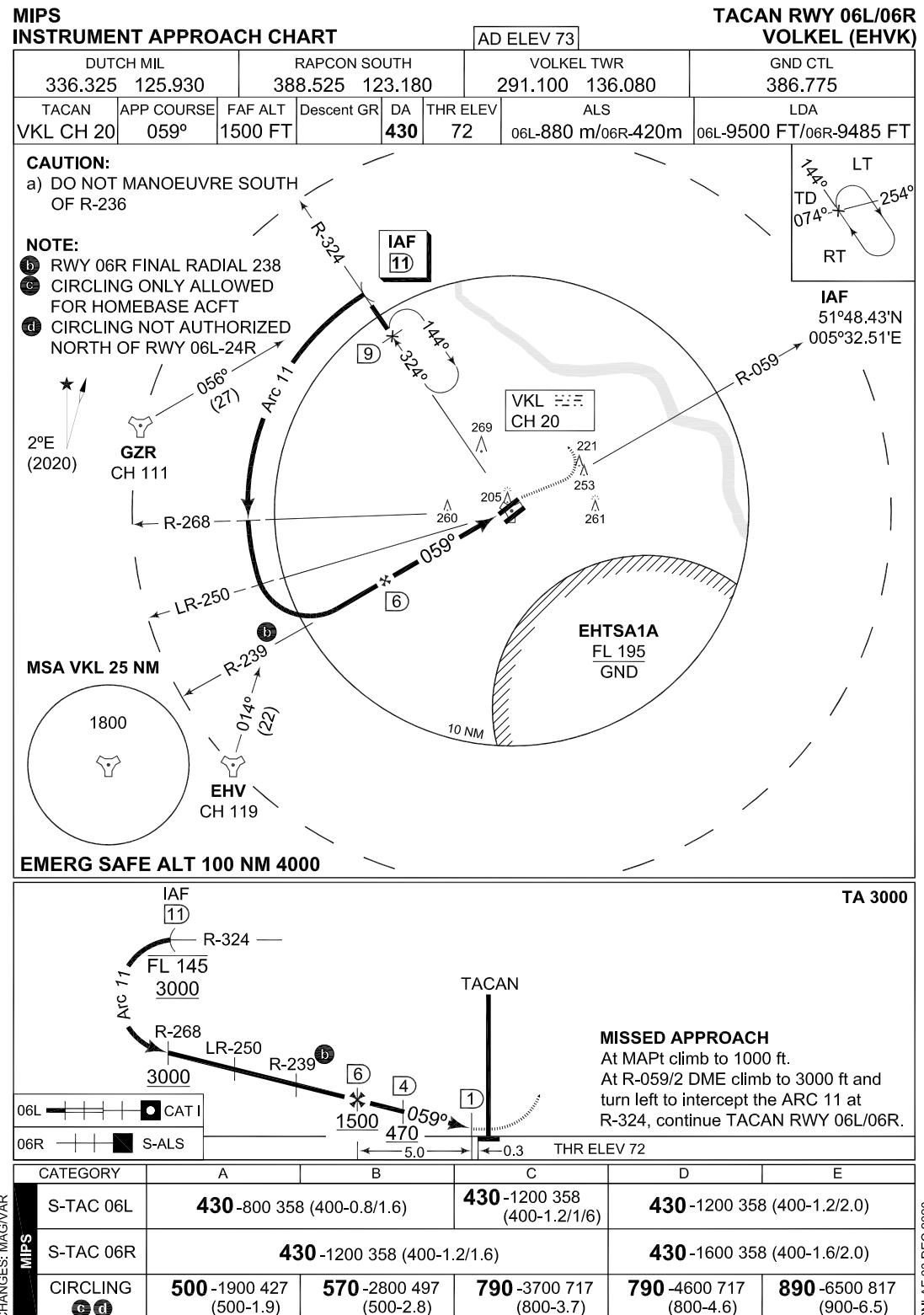


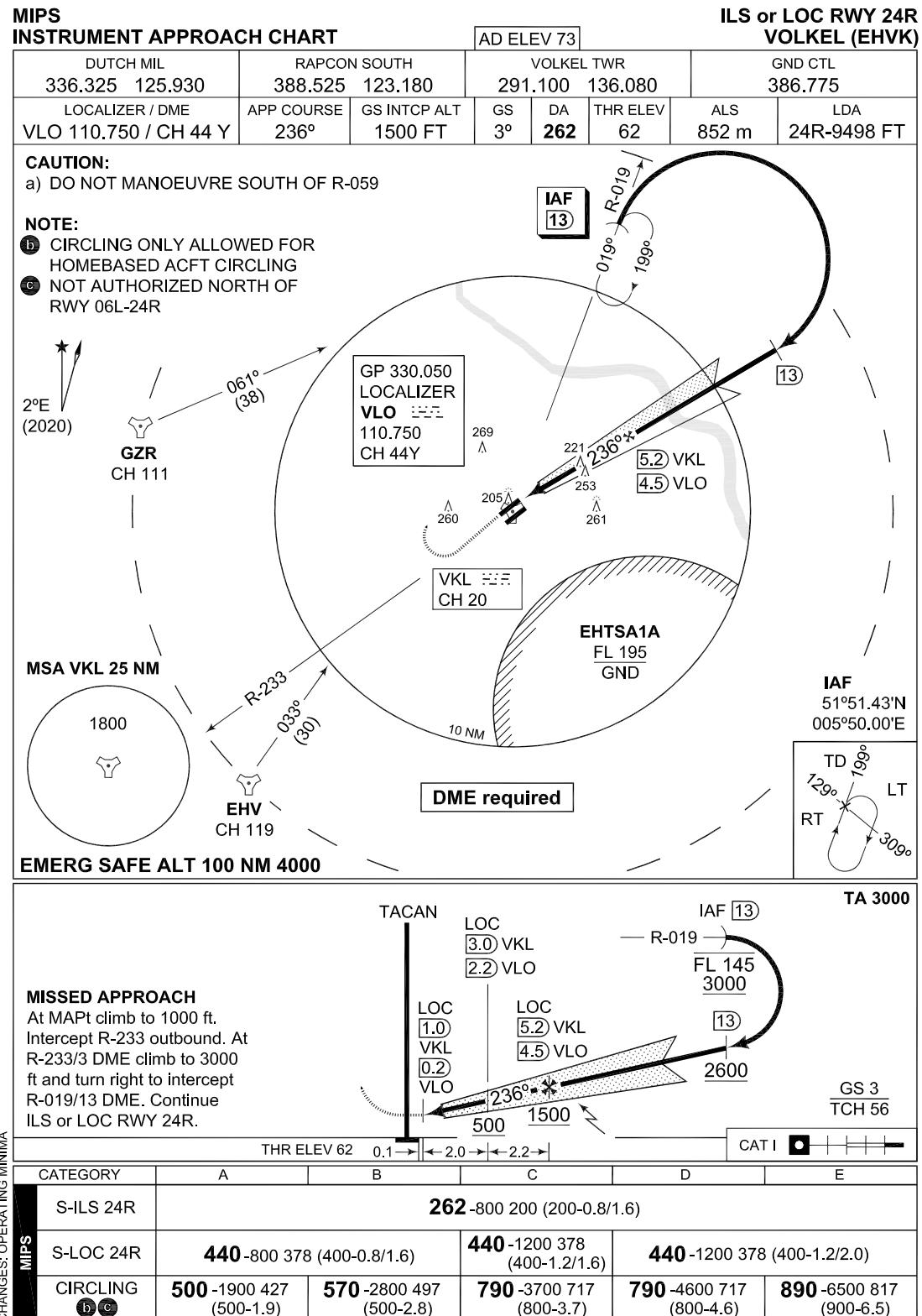
RNLAf 03 DEC 2020

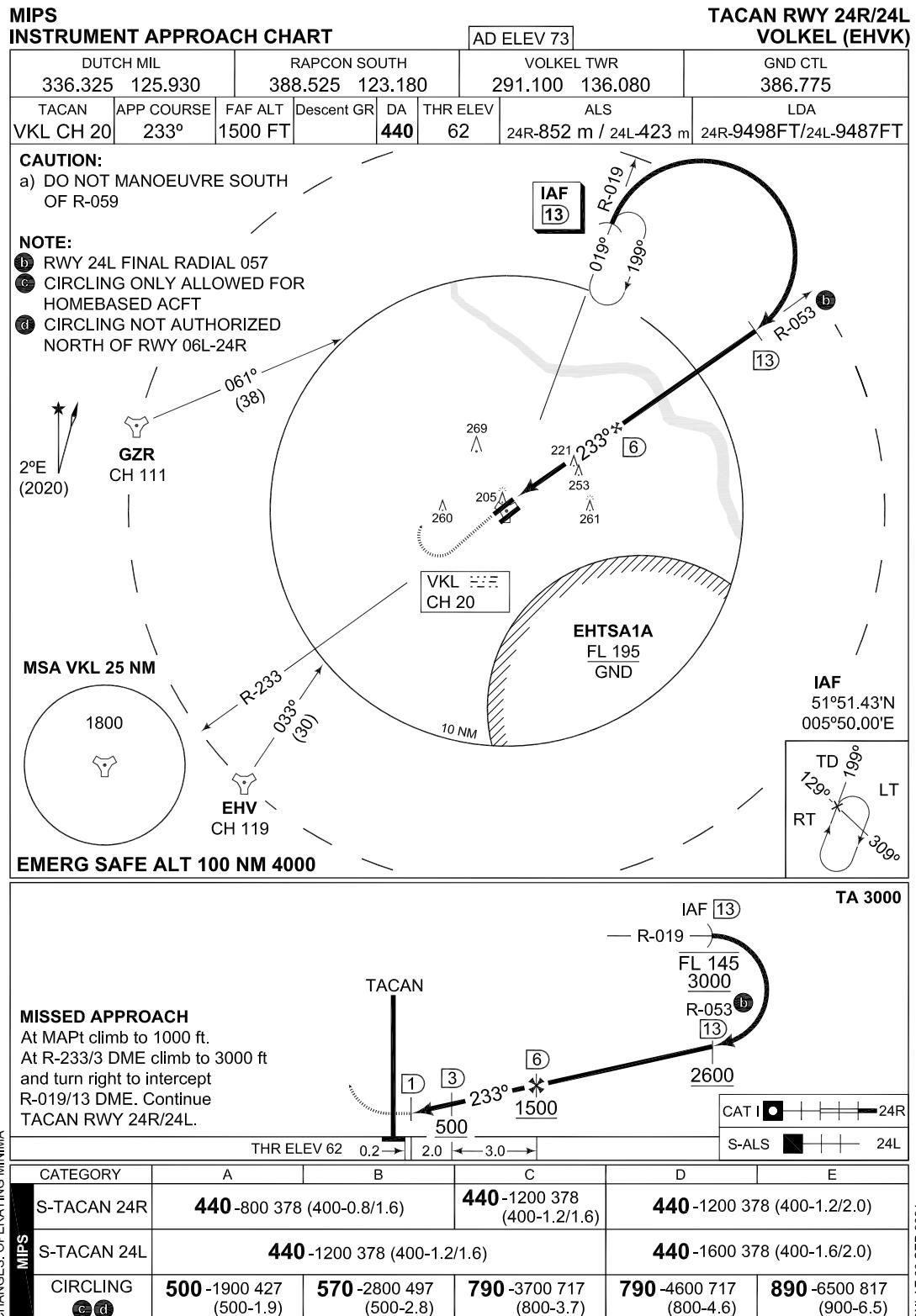












INTENTIONALLY LEFT BLANK

PART 3 – AERODROMES (AD)

AD 2.

AD 2. AERODROMES WOENSDRECHT

WOENSDRECHT

EHWO AD 2.1 Aerodrome location indicator and name

EHWO - Woensdrecht

EHWO AD 2.2 Geographical and administrative data

| | | |
|---|--|---|
| 1 | ARP | 51°26'56.40"N 004°20'31.71"E |
| 2 | Direction and distance from city | 150° MAG/3.5 NM BERGEN OP ZOOM |
| 3 | Elevation/Reference temperature | + 63 ft AMSL/21.0° C (AUG) |
| 4 | MAG VAR/Annual change | 1°31'E (JAN 2020)/11'E |
| 5 | AD operating authority Postal address Visitors' address Telephone E-mail AFTN | RNLAF Vliegbasis Woensdrecht MPC 91A P.O. Box 8762 4820 BB Breda Kooiweg 40 4631 SZ Hoogerheide +31(0)164 692365 kmsl.lvl@mindef.nl EHWOZTZX |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHWO AD 2.3 Operational hours

| | | |
|----|----------------------------|---|
| 1 | AD OPR HR | MON/FRI 0800/1545 (0700/1445) |
| 2 | Customs and immigration | 1 HR PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | See AD 2.23 |
| 5 | ATS Reporting Office (ARO) | See AD 2.23 |
| 6 | MET Briefing Office | HO |
| 7 | ATS | HO |
| 8 | Fuelling | HO |
| 9 | Handling | Limited, check Operations and Coordination Centre for status. See AD 2.23 |
| 10 | Security | HO |
| 11 | De-icing | Not AVBL |
| 12 | Remarks | PPR 24 HRS See AD 2.23 |

EHWO AD 2.4 Handling services and facilities

| | | |
|---|--------------------------------|------------------|
| 1 | Cargo-handling facilities | No |
| 2 | Fuel/oil types | F-34 |
| 3 | Fuelling facilities/capacity | O/R |
| 4 | Oxygen | LOX |
| 5 | De-icing facilities/type | No |
| 6 | Starting units | DSA 150, DSA 600 |
| 7 | Hangar space for visiting ACFT | No |
| 8 | Repair facilities | No |
| 9 | Remarks | Nil |

EHWO AD 2.5 Passenger facilities

| | | |
|---|--------------------|----------------------------|
| 1 | Remain overnight | AVBL O/R |
| 2 | Medical facilities | Medical officer, ambulance |
| 3 | Remarks | Nil |

EHWO AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|------------|
| 1 | AD category for fire fighting | NATO CAT 7 |
| 2 | Remarks | Nil |

EHWO AD 2.7 Seasonal availability - clearing

| | | |
|---|------------------------|-------------|
| 1 | Seasonal availability | All seasons |
| 2 | Snow removal equipment | Yes |
| 3 | Remarks | Nil |

EHWO AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|---|
| 1 | Apron surface and strength | Visitors apron: concrete , PCN 77 R/C/W/T, PCR 564 R/C/W/T EMVO apron: tarmac, PCN 62 F/A/W/T, PCR 564 F/A/W/T LCW apron: concrete, PCN 47 R/C/W/T, PCR 494 R/C/W/T |
| 2 | TWY width, surface and strength | <p>TWY A: Width 15 m, tarmac, PCN 38 F/A/W/T, PCR 428 F/A/W/T</p> <p>TWY B: Width 22,5 m, tarmac/concrete, PCN 34 R/C/W/T, PCR 353 R/C/W/T</p> <p>TWY B1: Width 15 m, tarmac/concrete, PCN 48 R/C/W/T, PCR 500 R/C/W/T</p> <p>TWY B2: Width 11,9 m, tarmac/concrete, PCN 10 F/A/W/T, PCR 154 F/A/W/T</p> <p>TWY B3: Width 12 m, concrete, PCN 61 R/C/W/T, PCR 418 R/C/W/T</p> <p>TWY B4: Width 11,9 m, concrete, PCN 40 R/C/W/T, PCR 418 R/C/W/T</p> <p>TWY C: Width 14,8 m, tarmac, PCN 44 F/A/W/T, PCR 444 F/A/W/T</p> <p>TWY C1: Width 20 m, concrete, PCN 51 R/C/W/T, PCR 538 R/C/W/T</p> <p>TWY C2: Width 12 m, tarmac/concrete, PCN 32 R/C/W/T, PCR 373 F/A/W/T</p> <p>TWY C3: Width 12 m, tarmac/concrete, PCN 26 F/A/W/T, PCR 292 F/A/W/T</p> <p>TWY C4: Width 20 m, concrete, PCN 53 R/C/W/T, PCR 559 R/C/W/T</p> <p>TWY D: Width 12 m, tarmac/concrete, PCN 49 F/A/W/T, PCR 504 F/A/W/T</p> |
| 3 | Remarks | <p>TWY marking is general and not based on any ACFT type. Use caution when taxiing on intersections</p> <p>TWY B 2: only to be used by ACFT with ACN 10 / PCR 154 or less</p> <p>TWY C: obstacle TACAN building 24,5 m from TWY centreline</p> <p>Compass swing area: concrete, PCN 34 R/C/W/T, PCR 353 R/C/W/T</p> |

EHWO AD 2.9 Surface movement guidance and control system and markings

| | | |
|-----------------------|---------|-----|
| According STANAG 3158 | | |
| 1 | Remarks | Nil |

EHWO AD 2.10 Aerodrome obstacles

| |
|---------------------|
| See Aerodrome Chart |
|---------------------|

EHWO AD 2.11 Meteorological information provided

| | | |
|---|---|---|
| 1 | Associated MET Office | Woensdrecht |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHWO 0164-692268 Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHWO AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|------------------------------------|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | PCN: 51 R/C/W/T, PCR: 564 R/C/W/T |

EHWO AD 2.13 Declared distances

See Aerodrome Chart. Values in ft.

EHWO AD 2.14 Approach and runway lighting

| According STANAG 3316 | | |
|-----------------------|-------------------|---|
| 1 | Approach lighting | RWY 25: CAT I. 900 m RWY 07: S-ALS 420 m |
| 2 | RWY lighting | RWY 07 VHI, RWY 25 VCL/VHI |
| 3 | PAPI | Situated on left side of both RWYs |
| 4 | Remarks | Nil |

EHWO AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|---|
| 1 | LDI | Not lighted |
| 2 | TWY edge lighting | AVBL |
| 3 | Emergency RWY lighting | No |
| 4 | Emergency TWY edge lighting | No |
| 5 | Secondary power supply/switch-over | AVBL, switch over time 15 seconds |
| 6 | Remarks | No TWY edge lighting along TWY Northern taxiway. Edge markers along RWY will be installed when heavy snowfall is expected. Edge markers along TWY will be installed when heavy snowfall is expected and deemed necessary. |

EHWO AD 2.16 Helicopter landing area

| | | |
|---|----------|---|
| 1 | Location | 51°26'46.52"N 004°20'15.47"E and 600 m south of TWR. See Aerodrome Chart |
| 2 | Marking | Daylight marking |
| 3 | Lighting | No |
| 4 | Remarks | Nil |

EHWO AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|--|
| 1 | Designation and lateral limits | Woensdrecht control zone 51°20'19.14"N 004°13'22.74"E; along clockwise arc (radius 8 NM, centre 51°26'56.40"N 004°20'31.71"E) to 51°25'38.09"N 004°33'08.47"E; along Dutch-Belgian border to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Woensdrecht TWR. English Outside HO DUTCH MIL INFO FREQ 132.350 MHZ. |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHWO AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|--|-------|--|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Woensdrecht Tower | 120.430*) 122.100 339.000*) 257.800 | HO | *) Primary FREQ |
| GND CTL | Woensdrecht Ground | 121.680 356.875 | HO | |
| APP | Rapcon West | 123.580 399.725 | HO | Radar equipped |
| | Woensdrecht Arrival | 123.580 370.650 | HO | Through APP |
| | Woensdrecht Monitor | 128.990 | HO | Nieuw Milligen TMA D1, TMA G1 (extended) Walcheren Area |

EHWO AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|---------------------|-----|------------------|-------|-----------------------------------|--------------------|---------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| TACAN | WDT | CH 97X | H24 | 51°26'50.64"N 004°20'38.13"E | 40 NM/25000 ft | FREQ protected |
| ILS 25 LOCALIZER | WDO | 108.150 | HO | 51°26'40.78"N 004°19'25.34"E | | |
| ILS 07 LOCALIZER | WDZ | 108.150 | HO | 51°27'13.50"N 004°21'44.40"E | | |
| GLIDEPATH 25 | | 334.550 | HO | 51°27'10.401"N 004°21'13.239"E | | center of central GP antenna |
| DME 25 | WDO | CH 18Y | HO | 51°27'10.401"N 004°21'13.239"E | | center DME antenna |
| GLIDEPATH 07 | | 334.550 | HO | 51°26'43.318"N 004°19'49.587"E | | center of central GP antenna |
| DME 07 | WDZ | CH 18Y | HO | 51°26'43.318"N 004°19'49.587"E | | center DME antenna |

EHWO AD 2.20 Local traffic regulations

Glider- and Light ACFT flying

Glider- and modelflying outside OPR HR SR/SS.

EHWO AD 2.21 Noise abatement procedures

To be developed.

EHWO AD 2.22 Flight procedures

IFR procedures

The IAP and SID procedures are established in accordance STANAG 3759 and AATCP-1.

RPN approach RWY 07

| serial number | Path Des ciptor | WPT ident | Fly Over | Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA (°TCH(ft)) | NAV Spec |
|---------------|-----------------|-----------|----------|-------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | UCTOW | - | - | - | - | - | +2000 | - | - | RNAV1 |
| 002 | TF | FESWA | - | 158/(159.2) | - | 5.0 | - | +2000 | - | - | RNAV1 |
| 003 | IF | PAFAZ | - | - | - | - | - | +2000 | - | - | RNAV1 |
| 004 | TF | FESWA | - | 041/(042.3) | - | 5.0 | - | +2000 | - | - | RNAV1 |
| 005 | IF | FESWA | - | - | - | - | - | +2000 | - | - | |
| 006 | TF | WO402 | - | 068/(069.2) | - | 4.3 | - | +2000 | - | - | RNP APCH |
| 007 | TF | THR07 | Y | 068/(069.4) | - | 6 | - | - | - | -3.00/54 | RNP APCH |
| 008 | CF | WO406 | Y | 068/(069.4) | - | 2.7 | - | -1000 | - | - | RNP APCH |
| 009 | DF | UCTOW | - | - | - | - | L | +3000 | - | - | RNP APCH |

FAS data block - RWY 07

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHWO |
| Runway | 07 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E07A |
| LTP/FTP Latitude | 512642.4915N |
| LTP/FTP Longitude | 0041932.5655E |
| LTP/FTP Ellipsoidal Height (metres) | 56.4 |
| FPAP Latitude | 512710.3410N |
| Delta FPAP latitude (seconds) | 27.8495 |
| FPAP longitude | 0042130.9220E |
| Delta FPAP Longitude (seconds) | 118.3565 |
| Threshold Crossing Height | 54.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.00 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output | |
|----------------------|--|
| Data Block | 10 0F 17 08 05 07 00 00 01 37 30 05 77 EE 13 16 AB 3C DB 01 34 16 93 D9 00 A9 9C 03 1C 02 2C 01 64 00 C8 AF 24 80 FC 79 |
| Calculated CRC Value | 2480FC79 |
| Supplied CRC Value | 2480FC79 |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|------|
| ICAO Code | WO |
| LTP/FTP Orthometric Height (metres) | 11.9 |

RPN approach RWY 25

| serial number | Path Des ciptor | WPT ident | Fly Over | Course-Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA (°TCH(ft)) | NAV Spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | BEXWI | - | - | - | - | - | +2000 | - | - | RNAV1 |
| 002 | TF | UPJEF | - | 081/(082.4) | - | 5.0 | - | +2000 | - | - | RNAV1 |
| 003 | TF | NIRUC | - | 158/(159.6) | - | 5.0 | - | +2000 | - | - | RNAV1 |
| 004 | IF | VUZCO | - | - | - | - | - | +2000 | - | - | RNAV1 |
| 005 | TF | NIRUC | - | 248/(249.5) | - | 5.0 | - | +2000 | - | - | RNAV1 |
| 006 | IF | NIRUC | - | - | - | - | - | +2000 | - | - | - |
| 007 | TF | WO412 | - | 248/(249.5) | - | 4.3 | - | +2000 | - | - | RNP APCH |
| 008 | TF | THR25 | Y | 248/(249.4) | - | 5.9 | - | | - | -3.00/54 | RNP APCH |
| 009 | CF | WO416 | Y | 248/(249.3) | - | 2.6 | - | -1000 | - | - | RNP APCH |
| 010 | DF | WO417 | Y | 248/(249.3) | - | 3 | - | | - | - | RNP APCH |
| 011 | DF | WO418 | - | - | - | - | R | +3000 | - | - | RNP APCH |
| 012 | TF | BEXWI | - | 081/(082.4) | - | 8.8 | - | +3000 | - | - | RNP APCH |

FAS data block RWY 25

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHWO |
| Runway | 25 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E25A |
| LTP/FTP Latitude | 512710.3410N |
| LTP/FTP Longitude | 0042130.9220E |
| LTP/FTP Ellipsoidal Height (metres) | 63.7 |
| FPAP Latitude | 512642.4915N |
| Delta FPAP latitude (seconds) | -27.8495 |
| FPAP longitude | 0041932.5655E |
| Delta FPAP Longitude (seconds) | -118.3565 |

| | |
|---------------------------|----------|
| Threshold Crossing Height | 54.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.00 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output | |
|----------------------|--|
| Data Block | 10 0F 17 08 05 19 00 00 01 35 32 05 0A C8 14 16 54 D9 DE 01 7D 16 6D 26 FF 57 63 FC 1C 02 2C 01 64 00 C8 AF 71 22 E2 EE |
| Calculated CRC Value | 7122E2EE |
| Supplied CRC Value | 7122E2EE |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|------|
| ICAO Code | WO |
| LTP/FTP Orthometric Height (metres) | 19.2 |

VFR PROCEDURES

VFR EXIT POINTS

Delta

Just north of Kruisland (51.34'40"N 004.24'08"E)

Whiskey

Most southern point of Zuid Beveland (51.23'45"N 004.08'50"E)

Golf

Fields North of T-Cross N286 with N659 just West of Tholen (51.32'52"N 004.11'48"E)

STANDARD VFR DEPARTURE ROUTES PC7 INBOUND TRAINING AREAS:

DEPATURES PC-7.

Departure PC-7 RWY 25:

W25 Departure:

To the Walcheren area, proceed south of the A58 to leave the CTR south of Krabbendijke at exit point W (Whiskey).

G25 Departure:

To the G1/G1X, proceed over or west of the Oesterdam to leave the CTR north of Tholen at exit point G (Golf).

D25 Departure:

To the east, proceed west and north of Bergen op Zoom and Halsteren to leave the CTR northwest of Roosendaal at exit point D (Delta).

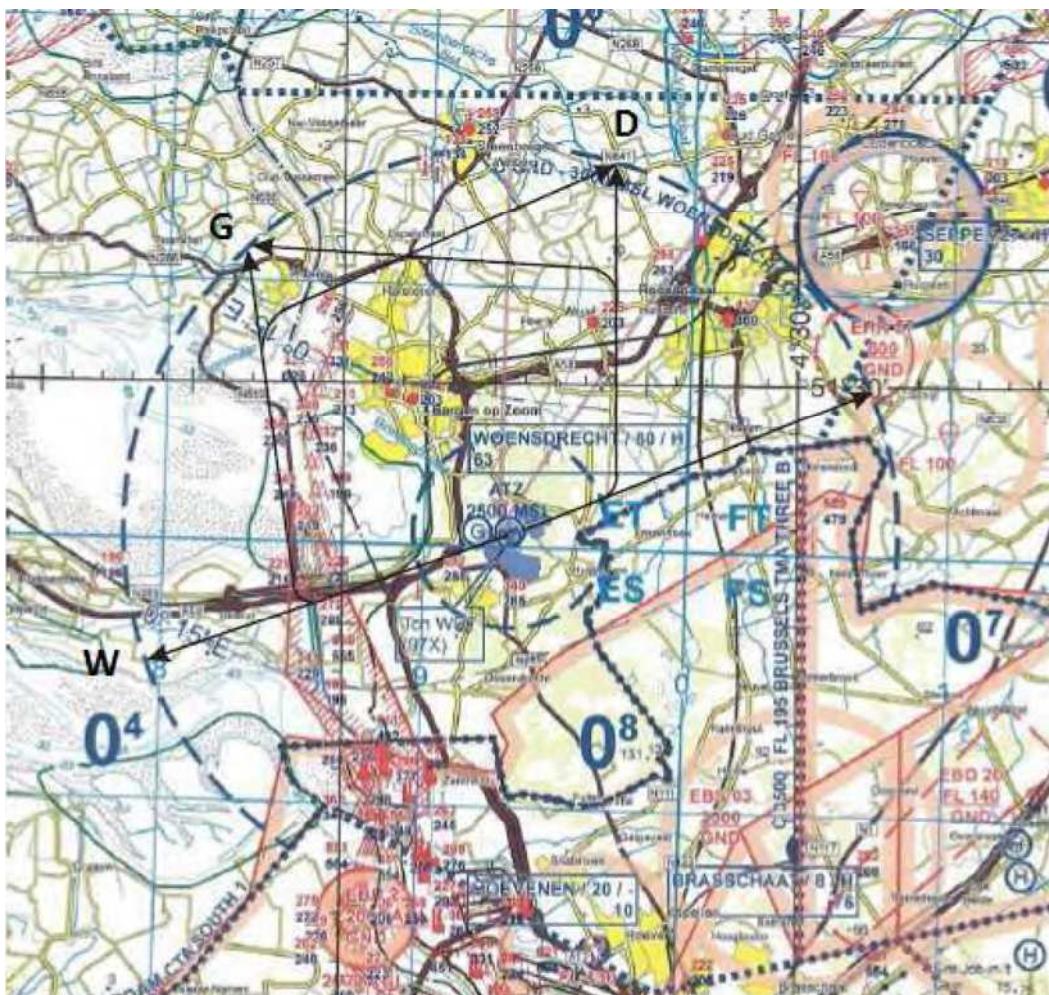
DEPARTURE PC-7 RWY 07:**G07 Departure:**

To the G1/G1X/Walcheren area, proceed east of Bergen op Zoom via north of Halsteren to leave the CTR north of Tholen at exit point G (Golf).

D07 Departure:

To the TMA D, proceed east of Bergen op Zoom and west of Roosendaal to leave the CTR north of Roosendaal at exit point D (Delta).

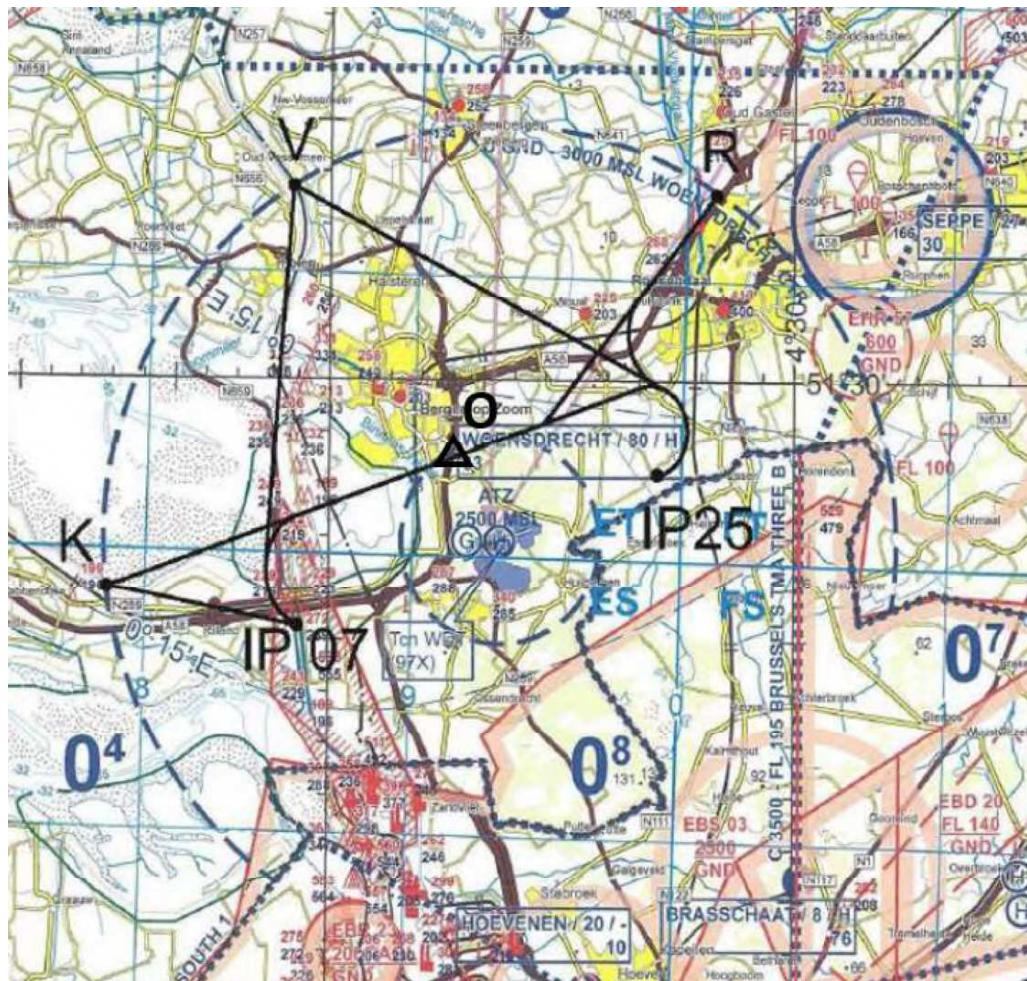
NOTE: PC-7 aircraft proceed at altitude 1500 ft.



VFR ARRIVAL AND CIRCUIT PROCEDURES

Oscar (O).

Crossing A4/A58 with Huijbergsebaan, between the hospital and the most southern residential area of Bergen op Zoom (51.28'44"N 004.18'56"E).



Closed or Downwind turn

When remaining in the circuit a closed or a downwind turn may be requested. A closed implies a climbing turn to downwind when passing the departure end of the runway. A downwind turn implies a turn to downwind when reaching circuit altitude.

Initial straight-in approach

From initial, a straight-in approach can be made. A one-minute prior initial, or abeam initial, shall be reported in order to sequence potential traffic in the circuit. A descent to 1000 ft AMSL will be initiated from the one-minute prior or abeam initial call towards initial.

Direct Downwind

From VFR entry points a direct path to downwind. A one-minute prior downwind shall be reported in order to sequencing potential traffic in the circuit. The descent to circuit altitude will be initiated from the one-minute prior call towards downwind.



Civil pattern

From VFR entry points, a direct path to downwind. Downwind will be entered at 700 ft AMSL.

Simulated Flame Out (SFO) specially for PC-7

High key will start at 2500 ft AMSL. The SFO pattern is standard in the north, however a pattern to the south may be applied to assure an expeditious flow of the potential traffic in the circuit.

LOW APPROACH, TOUCH AND GO, GO-AROUND.

After a Low Approach, Touch and Go or Go-around, traffic is to stop the climb at 1000 ft until passing airfield boundary at runway end.

SLOW LANE PROCEDURES

The slow-lane is standard on the northern side of the runway or otherwise instructed by ATC. Crossing the fast-lane is only allowed after permission from TWR. The slow lane is also to be used for dropping the drag chute.

EHWO AD 2.23 Additional information

Large air traffic Limitations

Due to protected nature reserve (Markiezaat) situated just north-west of the airbase, a restriction has been established to all aircraft with a wingspan > 30m. At all times this area must be avoided below 3000 ft. A map of the corresponding boundaries of this area is shown below.



AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.

Tel: +31(0)20 4062840
Tel: +31(0)20 4062841

E-mail: aocs.fdno@mindef.nl

AFTN: EHMCZPZX
AVBL H24

PPR 24 HRS: for Prior Permission Request contact:
Airport Operations ASC

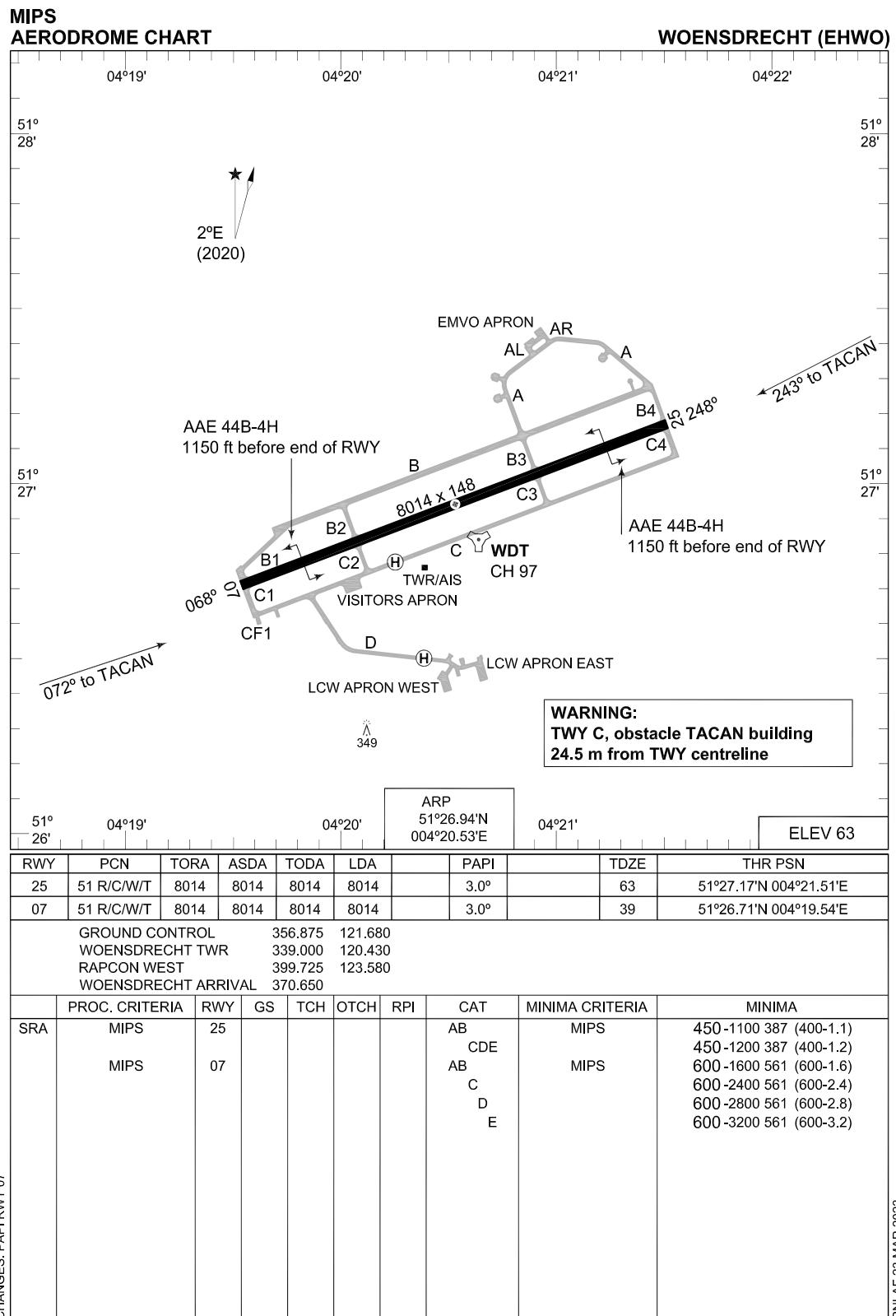
TEL: +31(0)889564405

FAX: N.A.

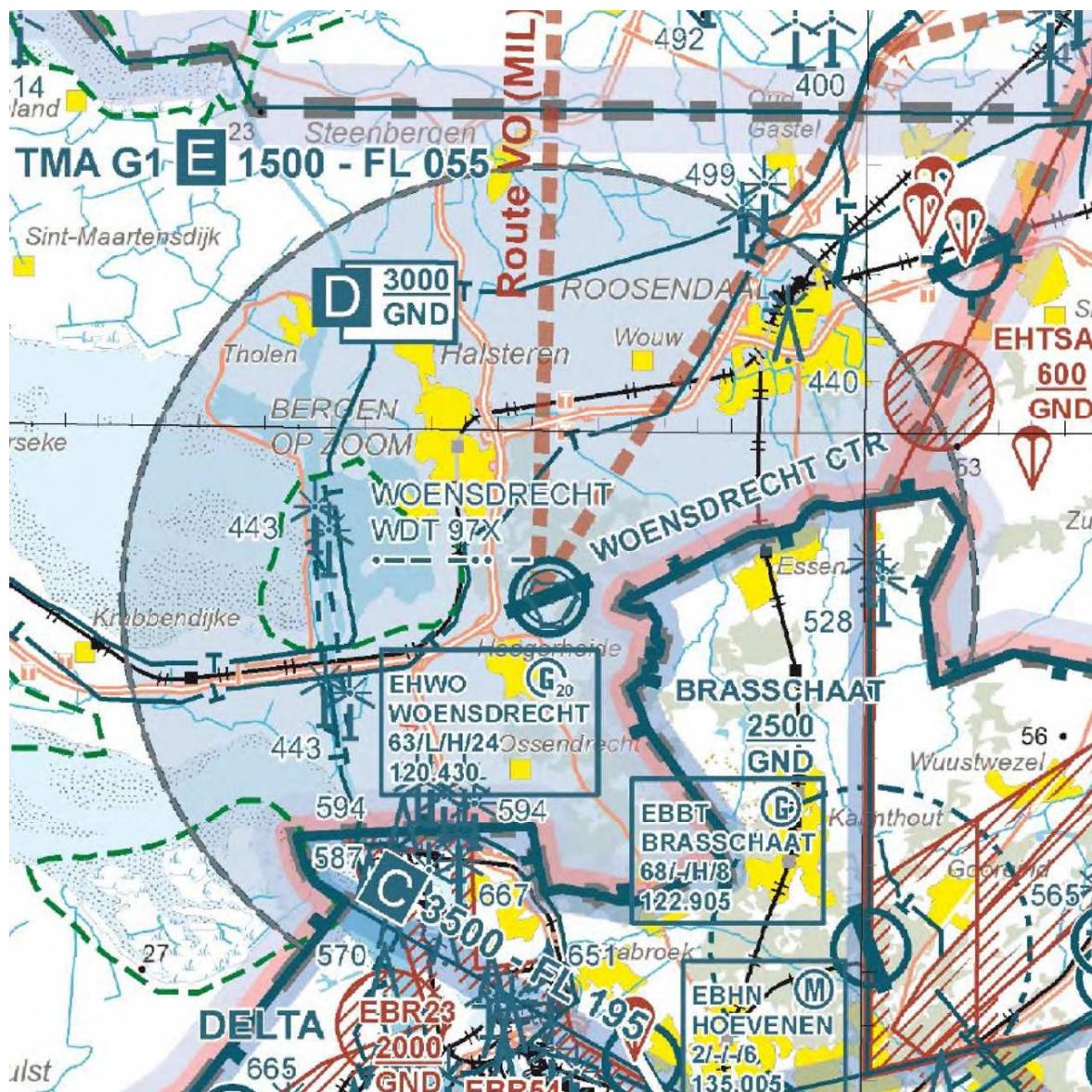
EMAIL: ASC.LHD@MINDEF.NL

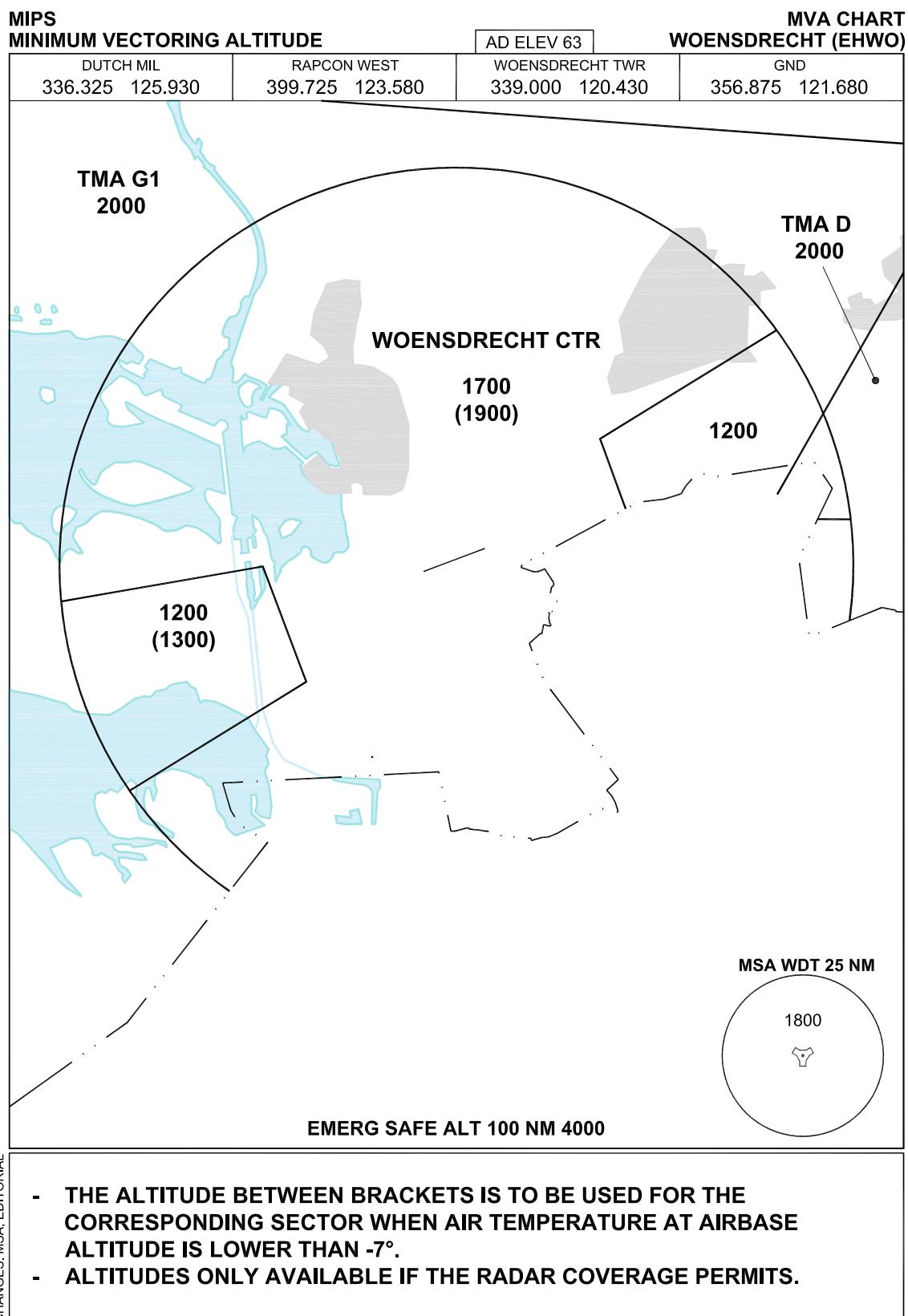
EHWO AD 2.24 Charts related to an aerodrome

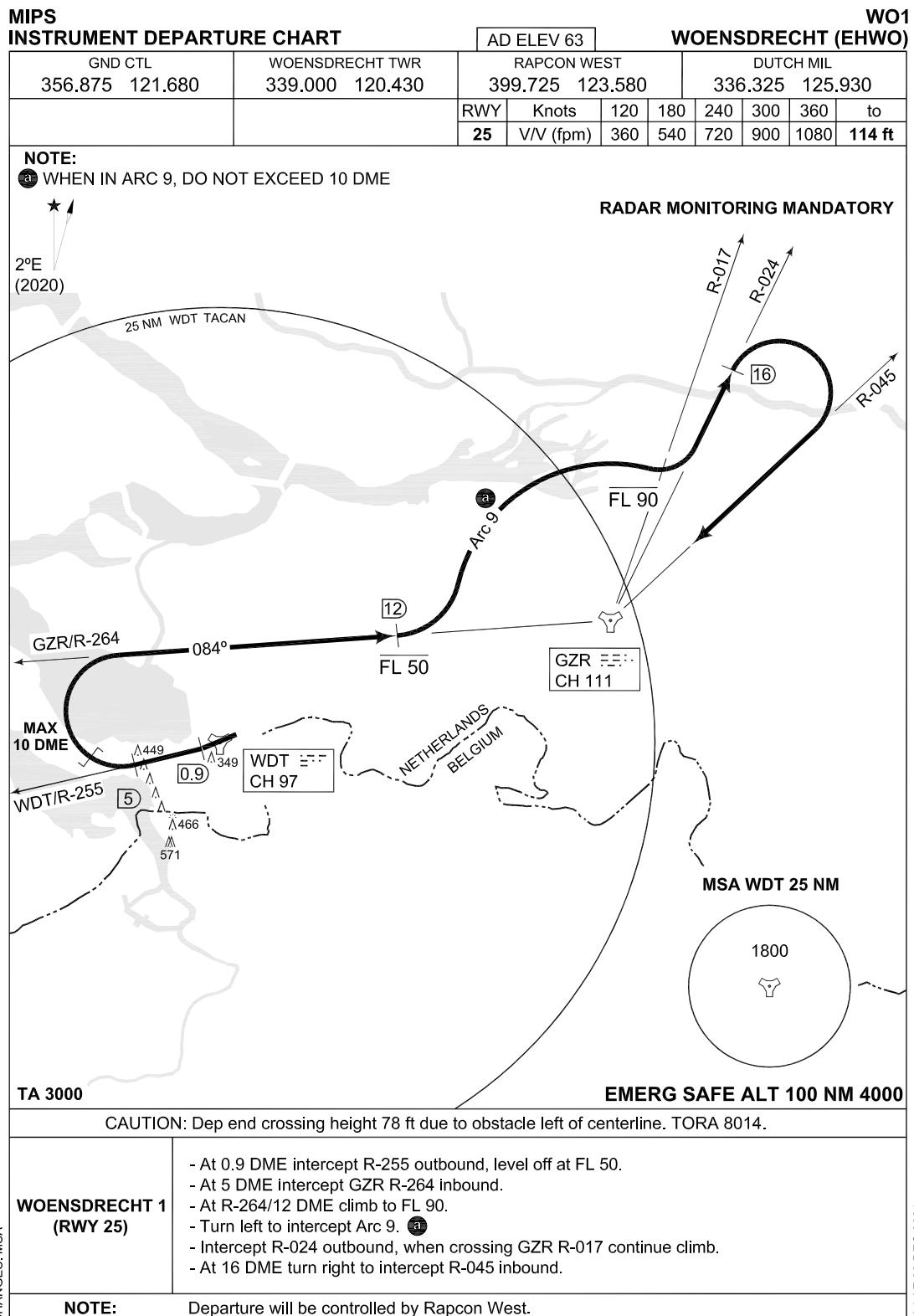
| | |
|---|--------------|
| Aerodrome Chart | EHWO AD 2-15 |
| Local map | EHWO AD 2-16 |
| MVA chart | EHWO AD 2-17 |
| Instrument departure chart WO1 | EHWO AD 2-18 |
| Instrument departure chart WO3 | EHWO AD 2-19 |
| Instrument approach chart ILS or LOC RWY 07 | EHWO AD 2-20 |
| Instrument approach chart HI-TACAN RWY 07 | EHWO AD 2-21 |
| Instrument approach chart TACAN RWY 07 | EHWO AD 2-22 |
| Instrument approach chart RNP RWY 07 | EHWO AD 2-23 |
| Instrument approach chart ILS or LOC RWY 25 | EHWO AD 2-24 |
| Instrument approach chart HI-TACAN RWY 25 | EHWO AD 2-25 |
| Instrument approach chart TACAN RWY 25 | EHWO AD 2-26 |
| Instrument approach chart RNP RWY 25 | EHWO AD 2-27 |

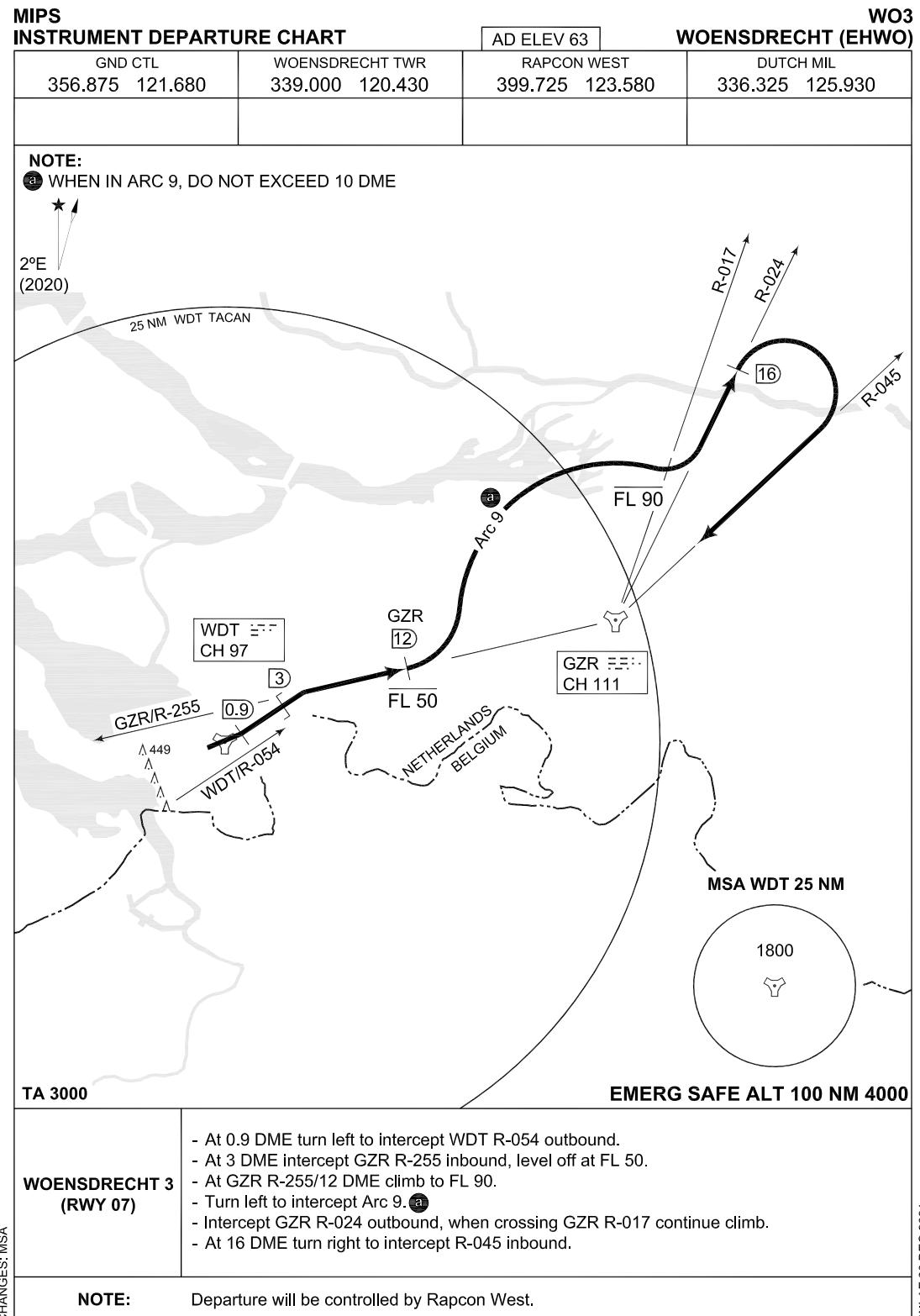


LOCAL MAP



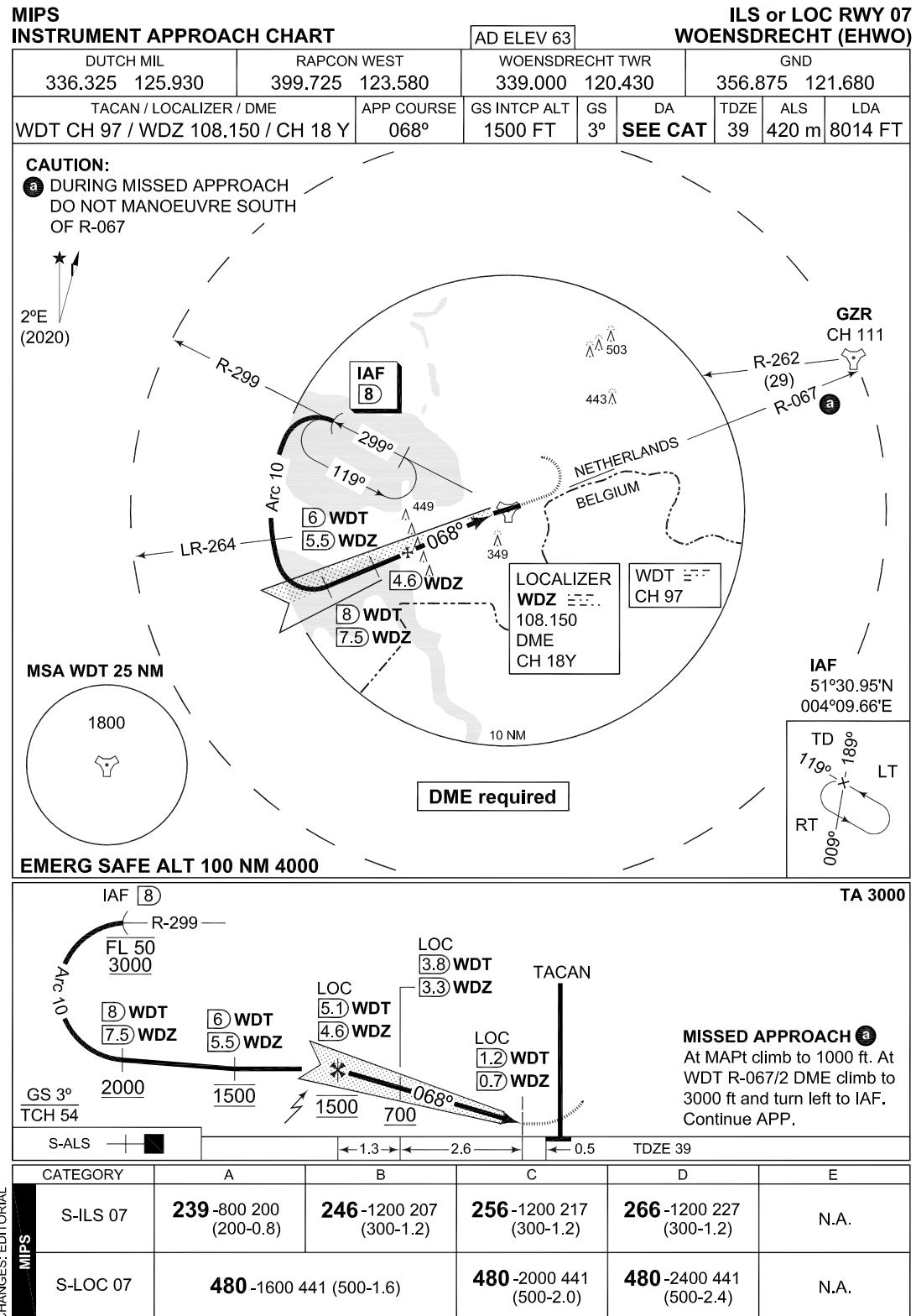


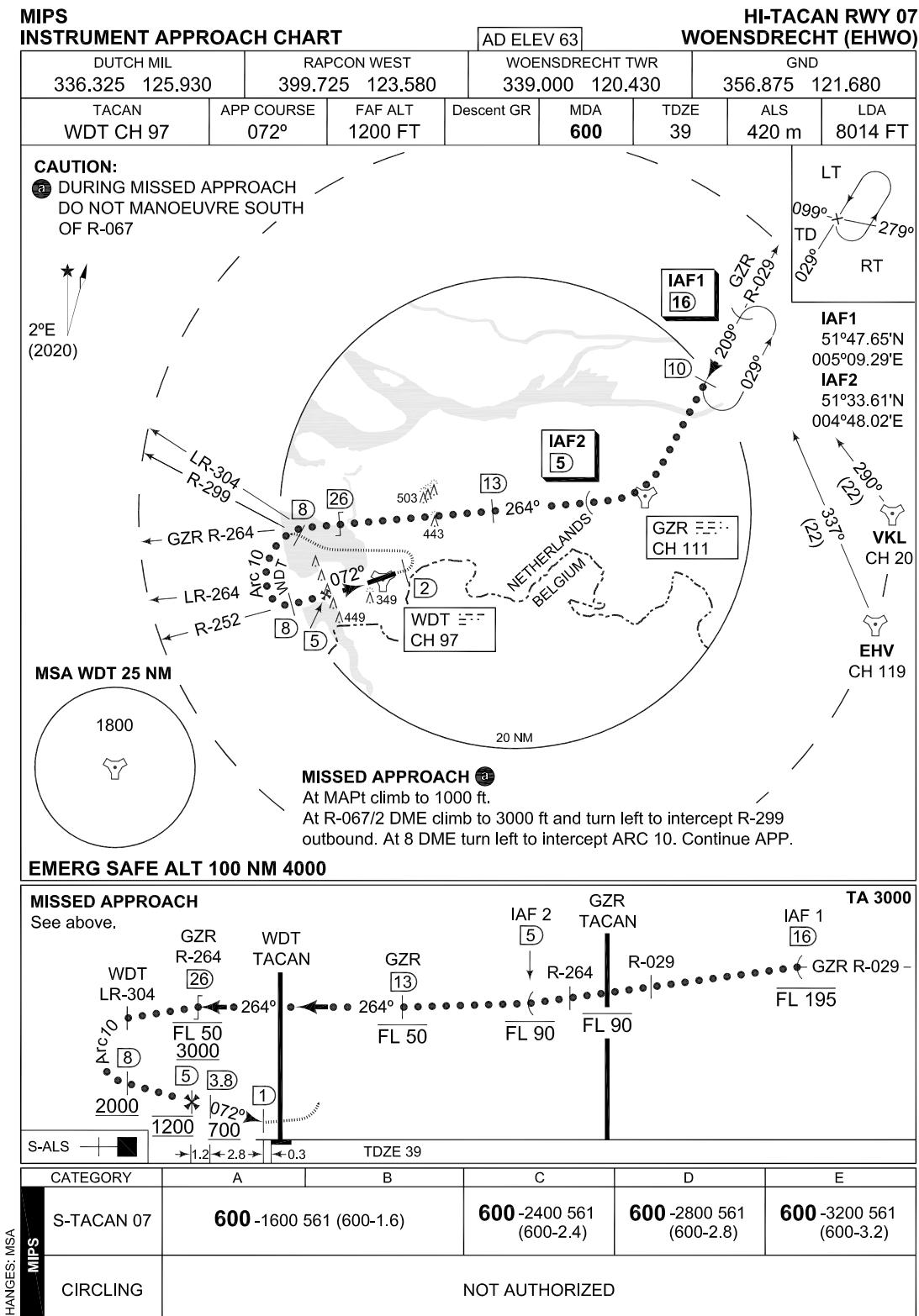


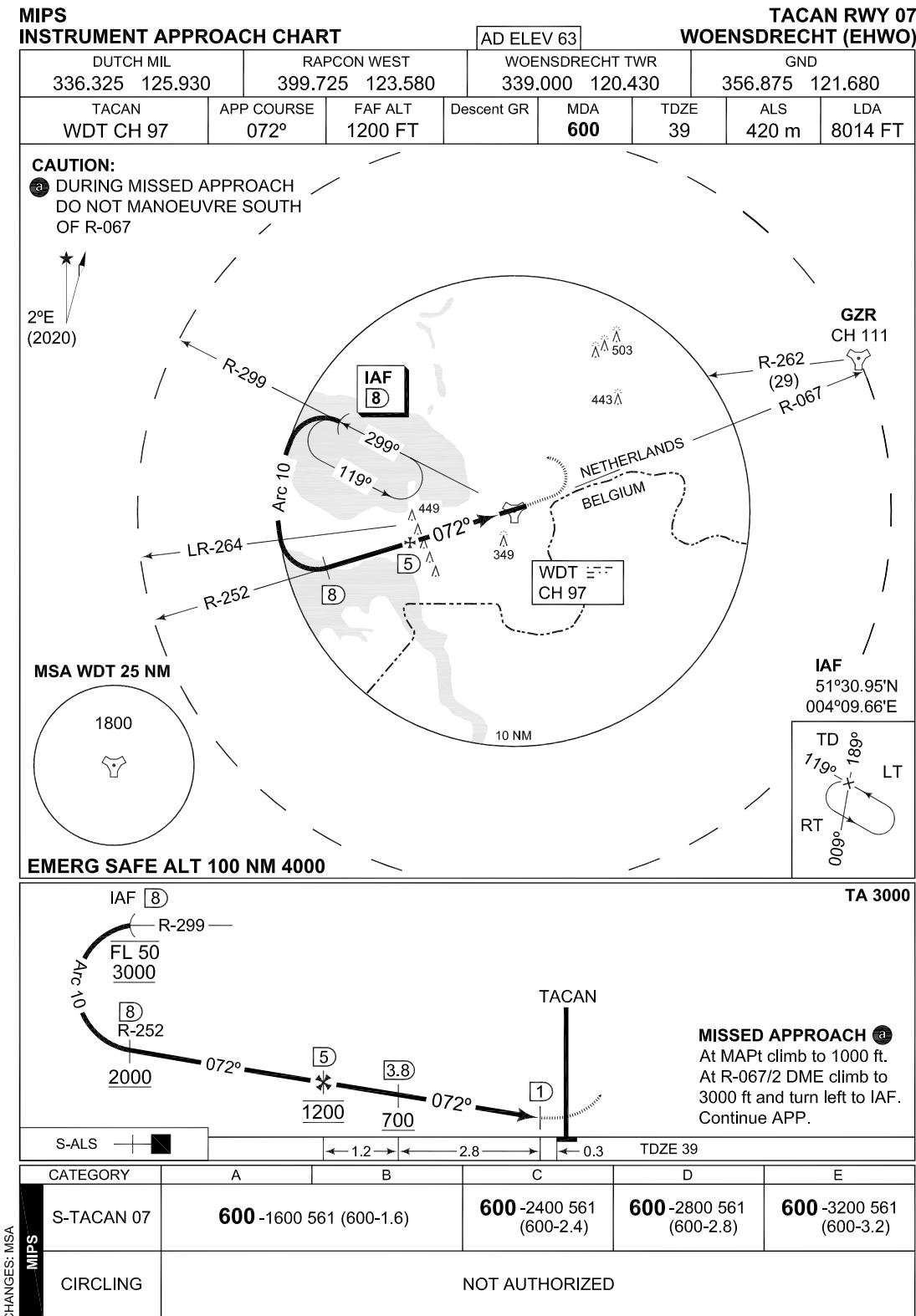


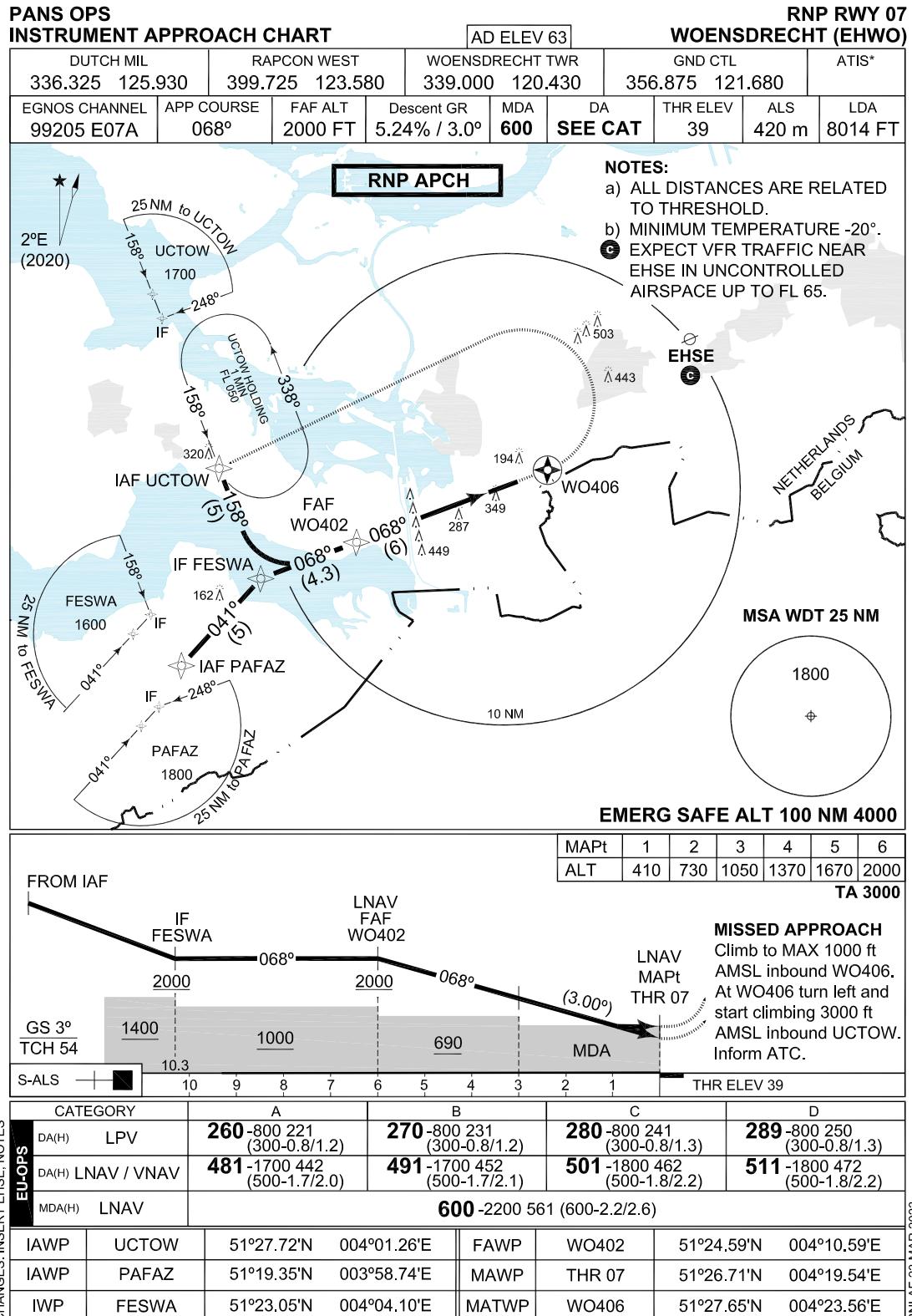
CHANGES: MSA

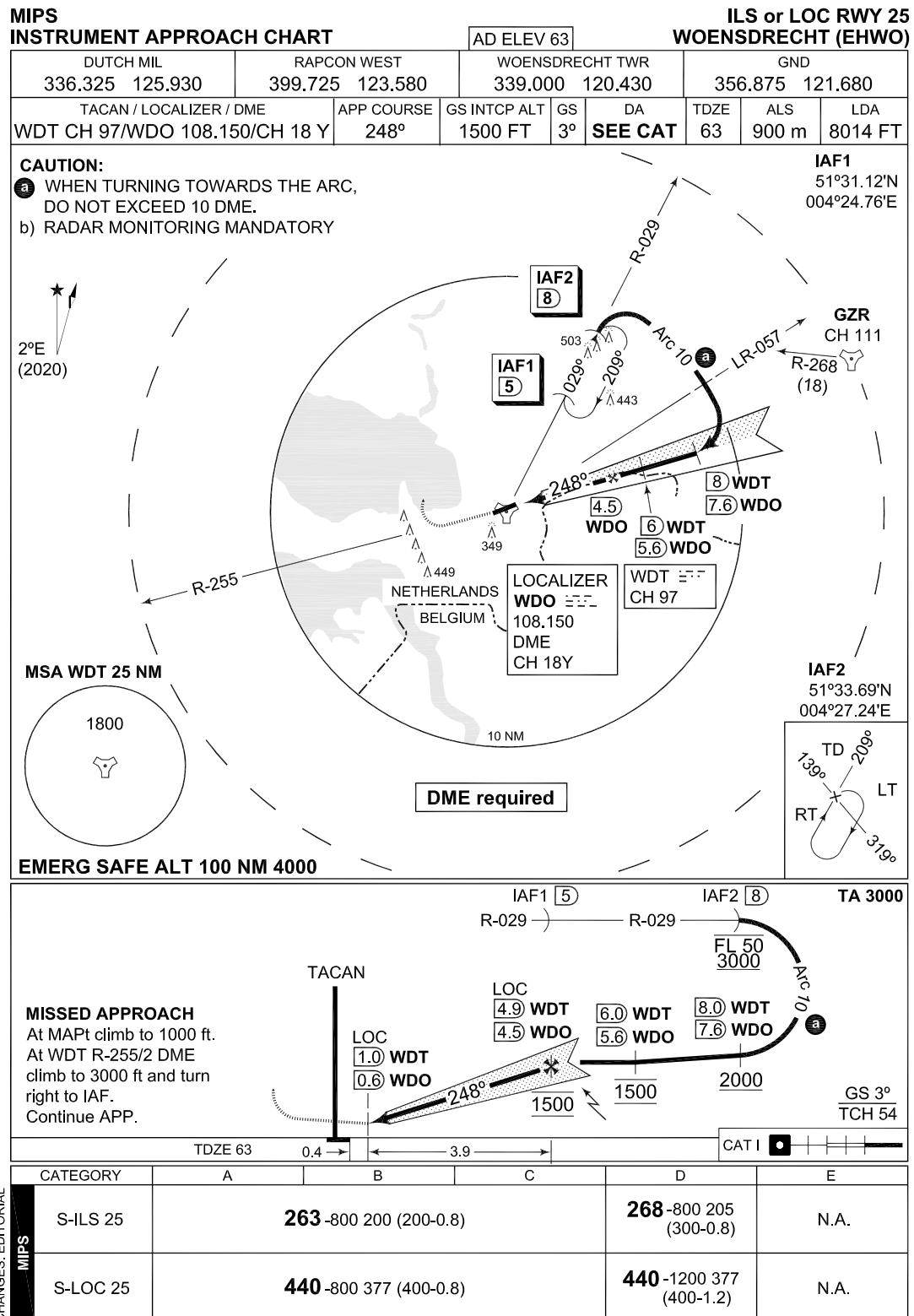
RNLAF 30 DEC 2021

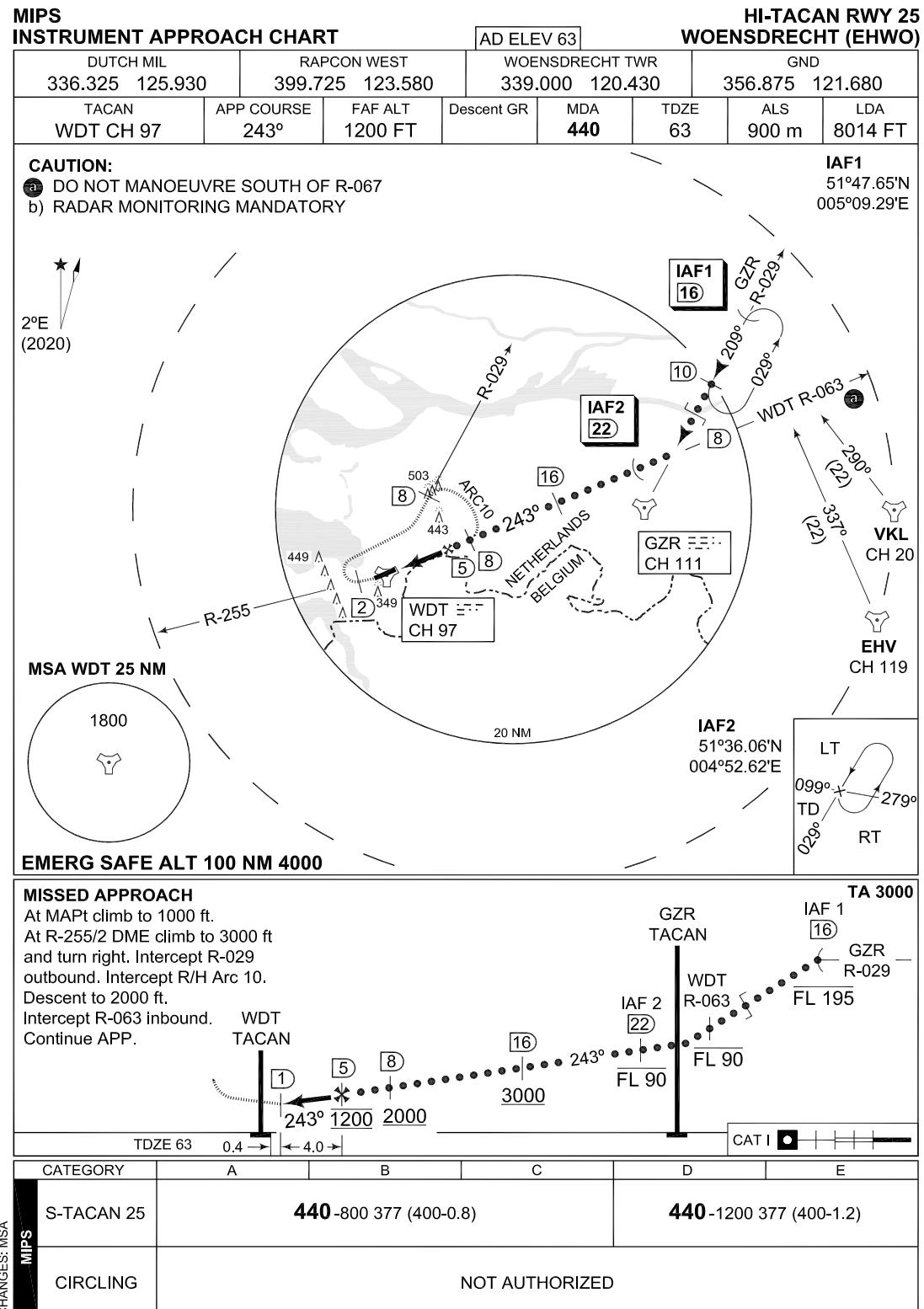


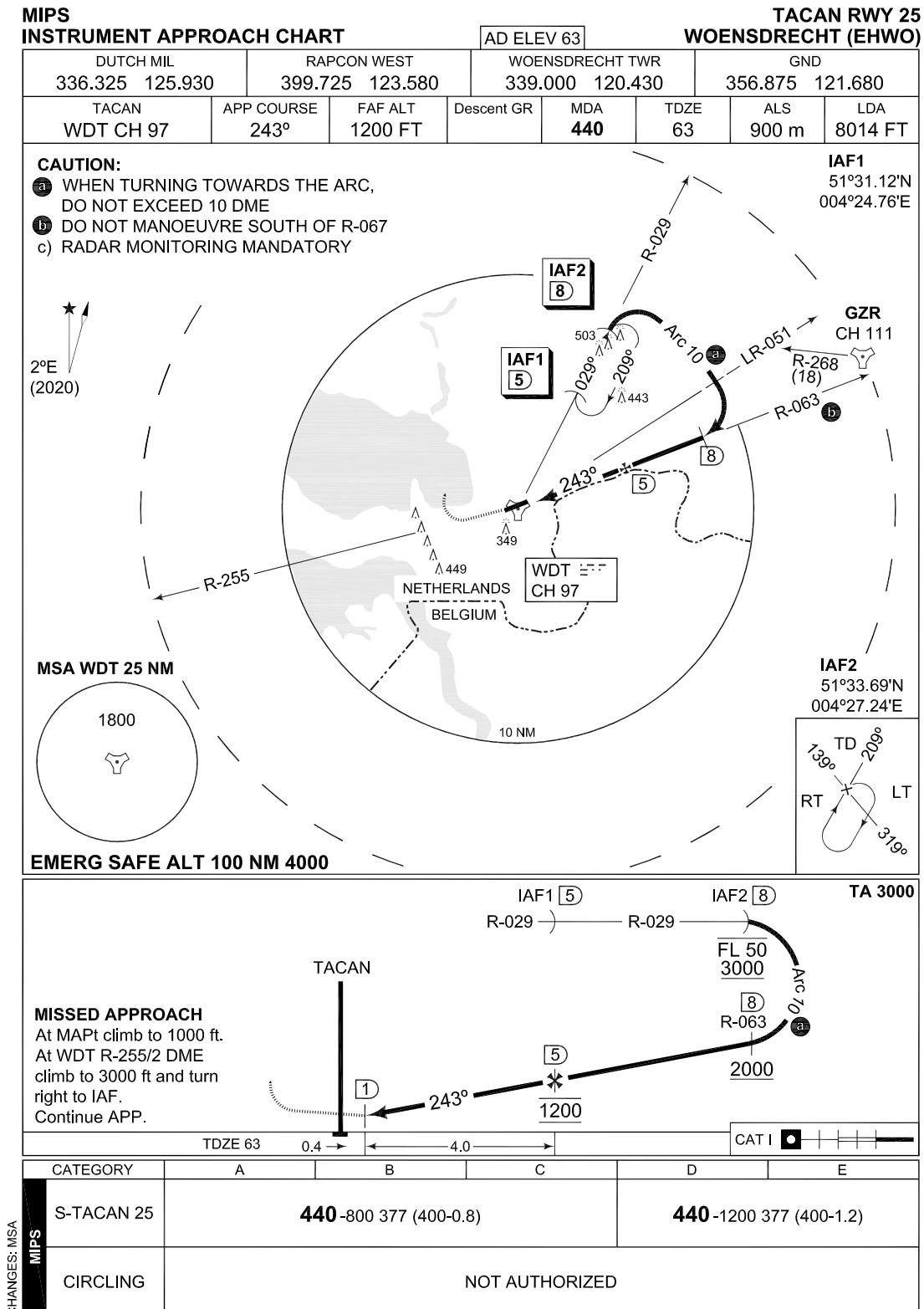


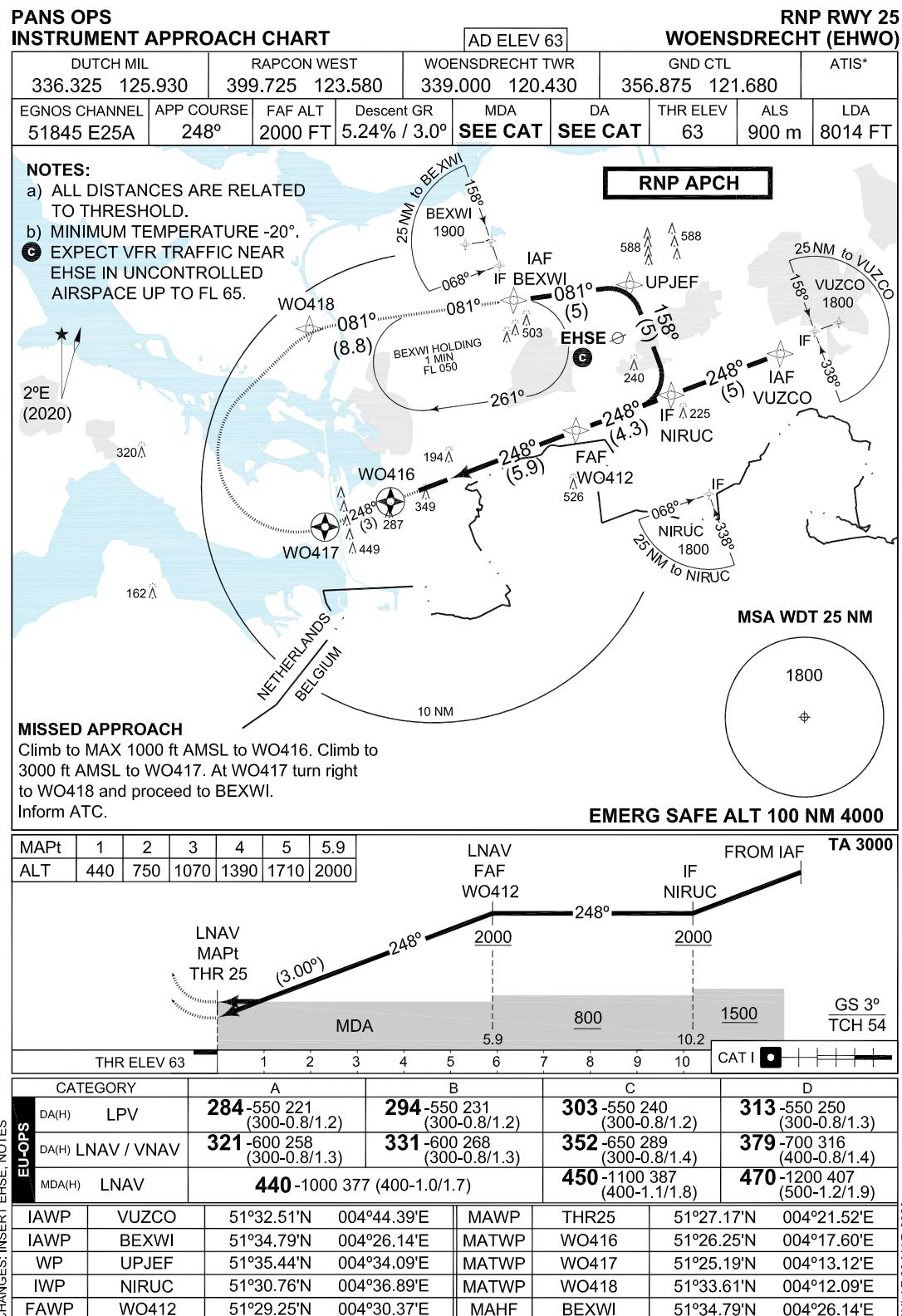












INTENTIONALLY LEFT BLANK