

## AD 2. AERODROME

### VNSI AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VNSI – SIMARA/Domestic

### VNSI AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP Coordinates and site at AD	27 09 36 N 084 58 47 E *
2.	Direction and Distance from (city)	20 Km, North of Birgunj City
3.	Elevation/Reference Temperature	137 m. (449ft.)/37° C (June)
4.	MAG VAR/Annual Change	0 ° E
5.	AD Administration, address Telephone, Telefax, Telex AFS	Civil Aviation Authority of Nepal Simara Civil Aviation Office, Simara, Bara Te1- 977-053-521952 Fax - 977-053-520210 AFS - VNSIYDYX
6.	Types of traffic permitted (IFR/VFR)	IFR / VFR
7.	Remarks	

### VNSI AD 2.3 OPERATIONAL HOURS

1.	AD Administration	SUN-THU 10:00 -17:00 LT (SUMMER), 10:00-1600 LT (WINTER), FRI 10:00-1500 LT
2.	Customs and immigration	NIL
3.	Health and sanitation	NIL
4.	AIS Briefing Office	NIL
5.	ATS Reporting Office (ARO)	NIL
6.	MET Briefing	Half Hourly METAR provided during ATS Operation Hours
7.	ATS	1) From 16 Feb - 15 Nov (0015 - 1815) UTC 2) From 16 Nov - 15 Feb (0045 - 1815) UTC
8.	Fuelling	During operation hours
9.	Handling (Cargo)	During Operation hours of respective airlines
10.	Security	H-24
11.	Remarks	Any change will be notified by NOTAM

\* WGS -84 Coordinates

#### **VNSI AD 2.4      HANDLING SERVICES AND FACILITIES**

1.	Cargo-handling facilities	Available with local airlines operator
2.	Fuel/Oil Types	Jet A1 / Not Available
3.	Fuelling facilities/capacity	<b>Voucher :</b> Capacity: 16 KL, QTY 2 <b>Dispensary Tank Fuel Voucher:</b> Capacity: 6 KL, QTY 1
4.	De-icing facilities	NIL
5.	Hangar space for visiting aircraft	NIL
6.	Repair facilities for visiting aircraft	NIL
7.	Remarks	GPU Power Supply available.

#### **VNSI AD 2.5      PASSENGER FACILITIES**

1.	Hotels	in the city
2.	Restaurants	in the city
3.	Transportation	Taxi Service, E-rickshaw from airport parking
4.	Medical Facilities	First Aid at AD, Hospitals in the city.
5.	Bank and Post Office	In the city
6.	Tourist Office	In the city.
7.	Remarks	-

#### **VNSI AD 2.6      RESCUE AND FIRE FIGHTING SERVICE**

1.	AD Category for firefighting	Category 5
2.	Rescue equipment	Available as per RFF Category
3.	Capability for removal of disabled aircraft	NIL
4.	Remarks	Ambulance Service and wheel type of fire extinguishers available.

#### **VNSI AD 2.7      SEASONAL AVAILABILITY**

Aerodrome available throughout the year.
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#### **VNSI AD 2.8      APRONS, TAXIWAYS AND CHECK LOCATION DATA**

1.	Apron surface and strength	Surface - Asphalt Concrete, Strength - 12/F/C/Y/T
2.	Taxiway width, surface and strength	Width - 18m      Surface – Asphalt Concrete, Strength - 10/F/C/Y/T
3.	Altimeter check point location and elevation	Location: - At Apron Elevation:- 134m/440 ft.
4.	VOR/INS checkpoints	VOR:-Taxi position.
5.	Remarks	-

## VNSI AD 2.9      SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Taxing guidance signs at intersections with TWY and RWY. Guide lines at apron.
2.	RWY and TWY markings and LGT	RWY: 01/19, THR, TDZ, Center line, RWY edge marked and RWY End, THR, RWY edge have lights. TWY: Center line, edge with blue lights.
3.	Stop bars	Stop bars in front of fire watch tower
4.	Remarks	NIL

## VNSI AD 2.10      AERODROME OBSTACLES

In Area 2						
OBST ID/ Designation	OBST Type	Latitude	Longitude	Elevation / height (m)	Markings/ Type, Color	Remarks
SI101	ATC Tower	27°9'48.722"N	84°58'46.471"E	148.657/15.634		Control Tower Top
SI105	VORDME	27°09'50.290"N	84°58'56.023"E	146.086/13.178		VORDME Antenna
SI106	Tree	27°9'57.653"N	84°58'58.875"E	160.161/23.446		Green Tree
SI107	Tree	27°9'57.377"N	84°59'0.230"E	159.337/17.697		Tree
SI109	Water Tank	27°10'12.575"N	84°58'50.001"E	165.962/30.225		Simara Water Tank Yellow
SI110	Tree	27°10'16.959"N	84°58'51.056"E	173.521/20.975		Tree
SI111	Masala Tree	27°10'12.569"N	84°58'55.405"E	169.742/32.343		Tree
SI112	Trees	27°10'2.605"N	84°59'2.195"E	168.906/29.771		4 Bunch of Tree
SI113	Hulas Roof Top	27°10'31.834"N	84°58'43.068"E	171.344/16.362		Hulas Steel (Blue House)
SI114	Chimney	27°10'17.842"N	84°58'34.222"E	170.058/30.846		Jagadamba Steel (Red Chimney)
SI115	Tower	27°10'2.977"N	84°58'36.412"E	181.623/46.060		NTC Telecom Tower
SI116	Chimney	27°10'1.816"N	84°58'24.351"E	167.576/33.889		Hama Steel (Black Chimney)
SI117	Mast	27°9'59.950"N	84°58'16.628"E	174.528/41.902		Tower (4 Pillar)
SI118	Antenna	27°9'54.307"N	84°58'29.379"E	176.095/46.240		Antenna Top
SI119	Water Tank	27°9'49.264"N	84°58'35.147"E	162.328/29.118		Simara Inn Hotel Top
SI120	Tower	27°9'49.253"N	84°58'33.091"E	166.789/33.379		Near Lama Hotel
SI121	Tower	27°9'50.846"N	84°58'20.877"E	165.979/34.979		Tower (West of Highway)
SI122	Building Top	27°9'43.510"N	84°58'38.094"E	150.977/19.206		Brighter Academy
SI123	Chimney	27°8'34.255"N	84°57'57.086"E	150.443/32.904		Ashok Steel

SI124	Chimney	27°8'30.795"N	84°58'2.748"E	147.000/29.541		Ashok Steel
SI125	Fire Station Top	27°9'40.394"N	84°58'45.596"E	147.582/15.086		Airport Fire Station
SI126	Bamboo	27°9'32.675"N	84°58'42.928"E	151.539/29.269		Bamboo Tree Behind Fire Station
SI129	Tree	27°9'19.971"N	84°58'52.925"E	153.073/31.523		Trees East of RWY 01 End
SI130	Tree	27°9'40.629"N	84°58'54.367"E	152.787/20.267		Peepal Tree
SI131	Tree	27°9'42.645"N	84°59'5.553"E	158.440/26.150		Twin Trees East of RWY Center
SI132	Tree	27°9'59.798"N	84°59'11.787"E	170.856/33.817		Tree Behind Playground
SI133	Tree	27°10'4.287"N	84°59'8.491"E	176.336/37.437		Tree - North Side of Playground
SI134	House Top	27°9'58.433"N	84°58'54.817"E	145.789/7.114		Pink House
SI135	House Top	27°10'0.355"N	84°58'54.618"E	147.769/9.087		House With Yellow Tank
SI136	House Top	27°9'59.029"N	84°58'56.232"E	148.365/14.285		White House
SI137	House	27°10'1.467"N	84°58'57.112"E	145.053/10.530		Pink and Brown House
SI138	House	27°9'53.037"N	84°58'57.119"E	142.382/6.725		Office Quarter
SI139	House	27°9'57.729"N	84°58'52.166"E	142.296/5.236		Tile Roof House
SI140	Factory Top With Chimney	27°9'0.060"N	84°58'47.350"E	144.035/20.256		Classic Industries Pvt. Ltd
SI141	Chimney	27°8'25.870"N	84°57'52.740"E	147.139/29.643		Himadri Food Product Pvt. Ltd
SI142	Chimney	27°8'59.672"N	84°58'25.483"E	151.293/29.876		Nandan Banaspati Ghee
SI143	Hotel Top	27°9'5.765"N	84°58'25.966"E	138.671/17.254		Ichhya Hotel Top
SI144	House Top	27°9'59.067"N	84°58'48.298"E	143.470/6.706		White House

## **VNSI AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

1.	Associated MET Office	MET office, Simara AIRPORT
2.	Hours of service MET office outside hours	As ATS
3.	Office responsible for TAF preparation periods of validity	NIL
4.	Type of landing forecast interval of issuance	NIL
5.	Briefing/Consultation provided	METAR
6.	Flight documentation language used	Charts or Tabular forms Text English
7.	Charts and other information available for briefing or consultation	NIL
8.	Supplementary equipment available for providing information	Self- briefing terminal
9.	ATS units provided with information	Simara TWR
10.	Additional information limitation of service, etc.)	Tel : (MET Office) 977-053-520081

\* WGS -84 Coordinates

### **VNSI AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

Designation RWY NR	TRUE & MAG BRG	Dimensions of RWY (M)	Strength(PCN) and surface of RWY and SWY	THR Coordinates	THR elevation
1	2	3	4	5	6
01	013°	1192x 30	11/F/C/Y/T Asphalt Concrete	270916.80539N* 0845843.54421E	127.243m AMSL
19	193°	1192x30	11/F/C/Y/T Asphalt Concrete	270954.71540N* 0845852.63538E	136.734m AMSL
Slope of RWY-SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strip Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
.....	.....	.....	.....	.....	.....

### **VNSI AD 2.13 DECLARED DISTANCES**

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
01	1192	1192	1192	1192	
19	1192	1192	1192	1192	

### **VNSI AD 2.14 APPROACH AND RUNWAY LIGHTING**

RWY Designator	APCH LGT Type LEN INTST	THR LGT COLOR WBAR	VASIS PAPI	TDZ LGT LEN	RWY Center Line LGT Length, spacing Color, INTST	RWY edge LGT LEN, spacing Color INTST	RWY End LGT Color	SWY LGT LEN (M) Color	Remarks
1	2	3	4	5	6	7	8	9	10
19	NIL	Green	PAPI 3.00°	NIL	NIL	1192m, 60m White LIM	Red	NIL	PAPI RWY 19 is restricted and unusable beyond 1 NM from the Runway Threshold
01	NIL	Green	APAPI 3.00°	NIL	NIL	1192m, 60m White LIM	Red	NIL	

### **VNSI AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

1.	ABN Location, characteristics and hours of operation	ABN:At Tower Building/IBN: NIL
2.	LDI Location and LGT Anemometer Location and LGT	NIL
3.	TWY edge and Centre line lighting	Edge: All TWY Centre Line : NIL
4.	Secondary power supply / switch over time	Secondary Power Supply available for all lighting at AD. Additional UPS available for AFL System. switch over time: Automatic (within 15 sec)
5.	Remarks	NIL

\* WGS 84 Coordinates

### **VNSI AD 2.16 HELICOPTER LANDING AREA**

Not specified
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### **VNSI AD 2.17 ATS AIRSPACE**

1. Designation and lateral limits	<u>Simara CTR</u> : An area bounded by VNSM boundary to the south and an arc of a circle 20 NM in radius centered at 'SMR' VOR (270951N, 0845856E*) <u>Simara ATZ</u> : An area of a circle of radius 5 NM centered at 'ARP' (270936 N, 0845847 E)	
2. Vertical Limits	CTR	ATZ
	<u>7500' AMSL</u> GND	<u>2000' AGL</u> GND
3. Airspace classification	C	
4. ATS units call sign/languages(s)	Simara TWR/English	
5. Transition Altitude	13500' AMSL	
6. Remarks	-	

### **VNSI AD 2.18 ATS COMMUNICATION FACILITIES**

Service Designation	Call Sign	Frequency	Hours of Operation	Remarks
12	2	3	4	5
TWR	Simara Tower	118.3 MHZ	. As ATS	.

### **VNSI AD 2.19 RADIO NAVIGATION AND LANDING AID**

Type of Aid	Identification	Frequency	OPR Hours	Coordinates	Remarks
1	2	3	4	5	6
DVOR/DME	SMR	112.9 MHZ CHN 76 X	H24	270951 N* 0845856 E	

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\* WGS -84 Coordinates

**VNSI AD 2.20      LOCAL TRAFFIC REGULATIONS**

To be Developed

**VNSI AD 2.21      NOISE ABATEMENT PROCEDURES**

NIL

**VNSI AD 2.22      FLIGHT PROCEDURES**

To be developed

## **VNSI AD 2.23 ADDITIONAL INFORMATION**

### **1. Bird Activity**

- a. Sometimes cases of bird concentration in vicinity of aerodrome may be encountered.
- b. No Special procedures have been adopted to control these bird concentrations except driving them through staffs, guards and security personnel.

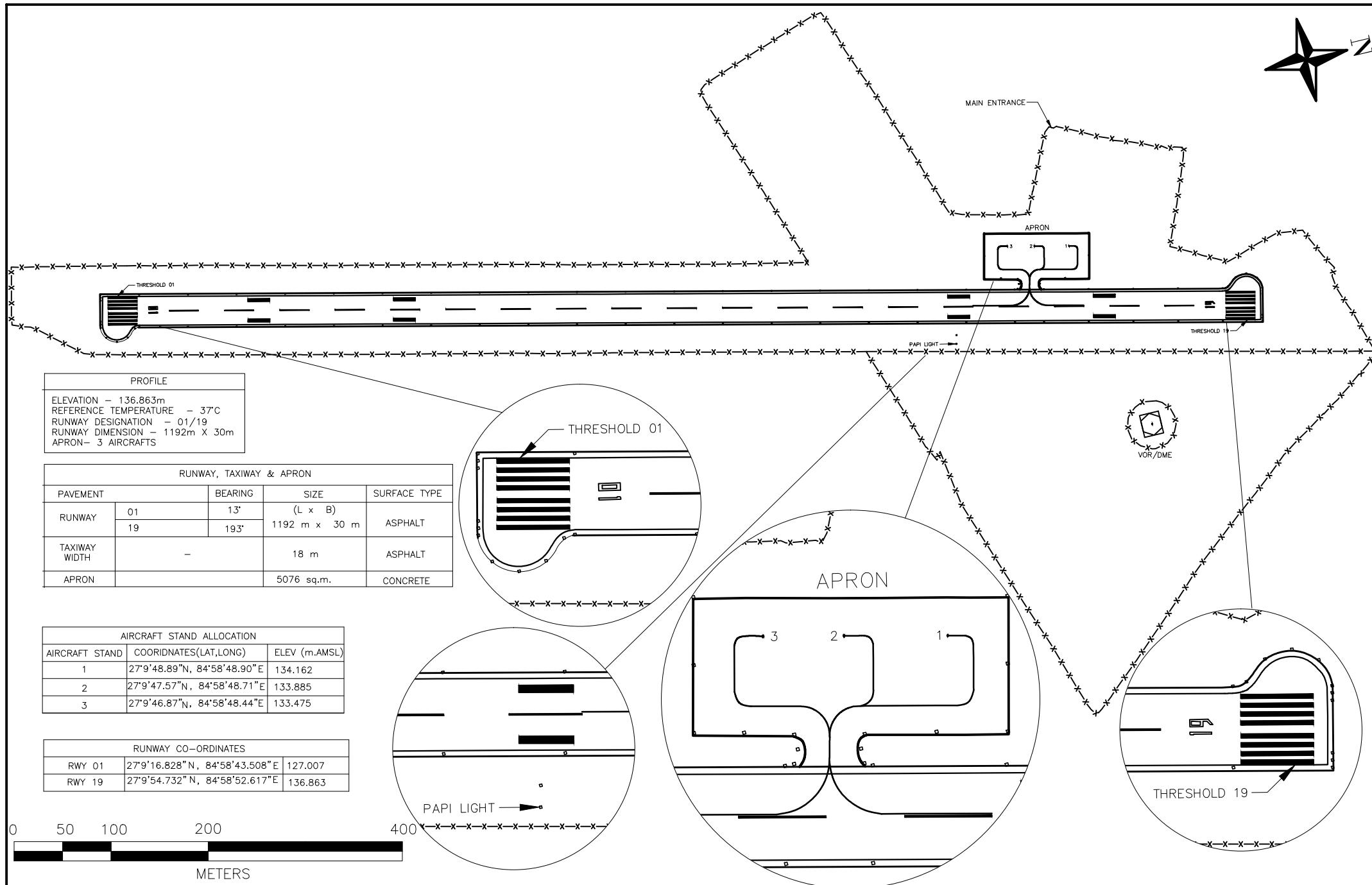
**VNSI AD 2.24 CHARTS & PROCEDURES RELATED TO SIMARA AIRPORT**

Aerodrome Chart	VNSI AD 2-11
IFR Holding Points	VNSI AD 2-12
Standard Departure Chart – RWY 19	VNSI AD 2-13
Instrument Approach Chart - ICAO	VNSI AD 2-14
Standard Arrival Chart Instrument (STAR) - ICAO	VNSI AD 2-15
DUMSI 1A Arrival, THULO 2A Arrival	
Instrument Approach Chart – ICAO	VNSI AD 2-16

## AERODROME CHART

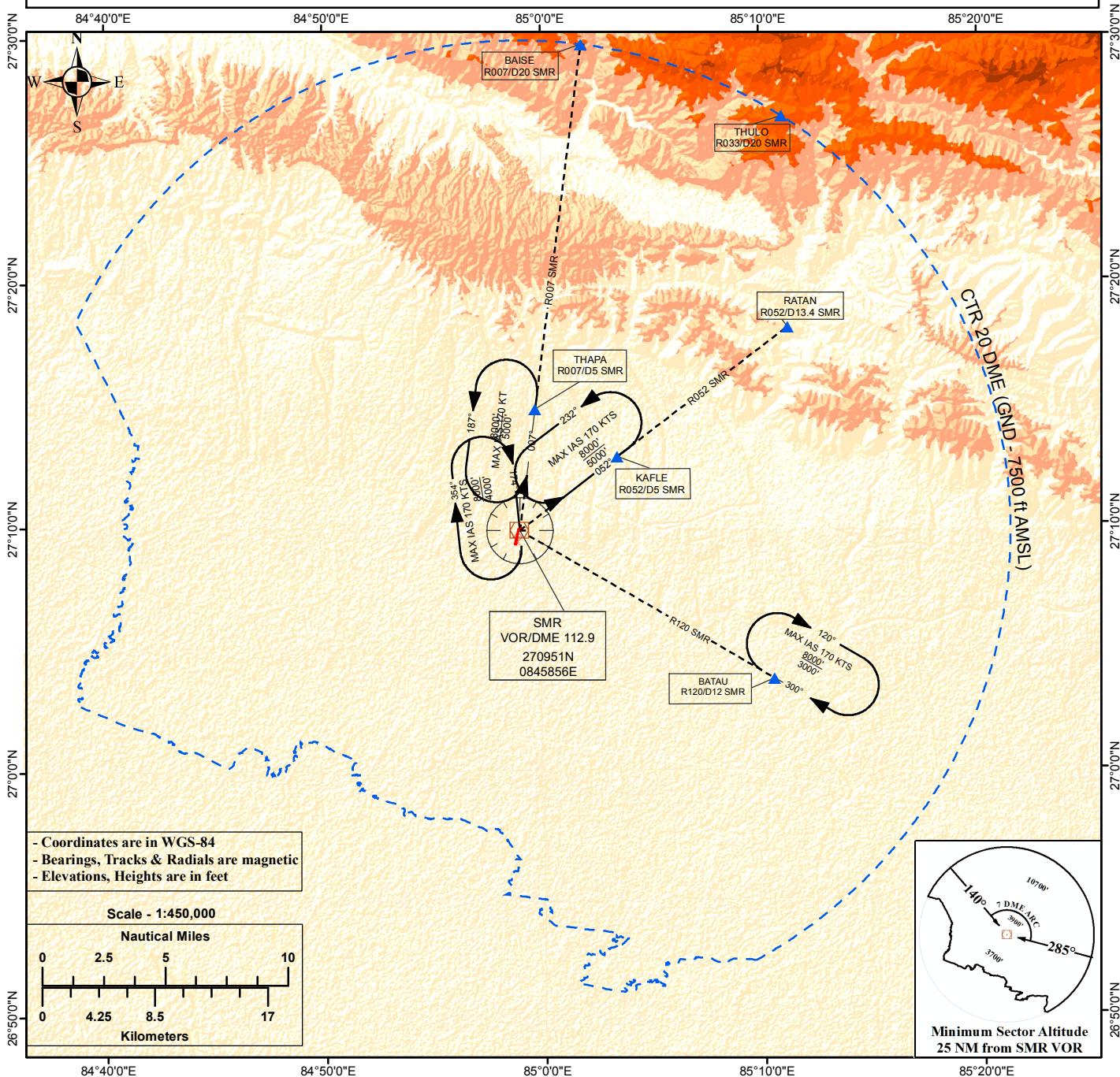
TWR 118.3 MHZ

SIMARA AIRPORT



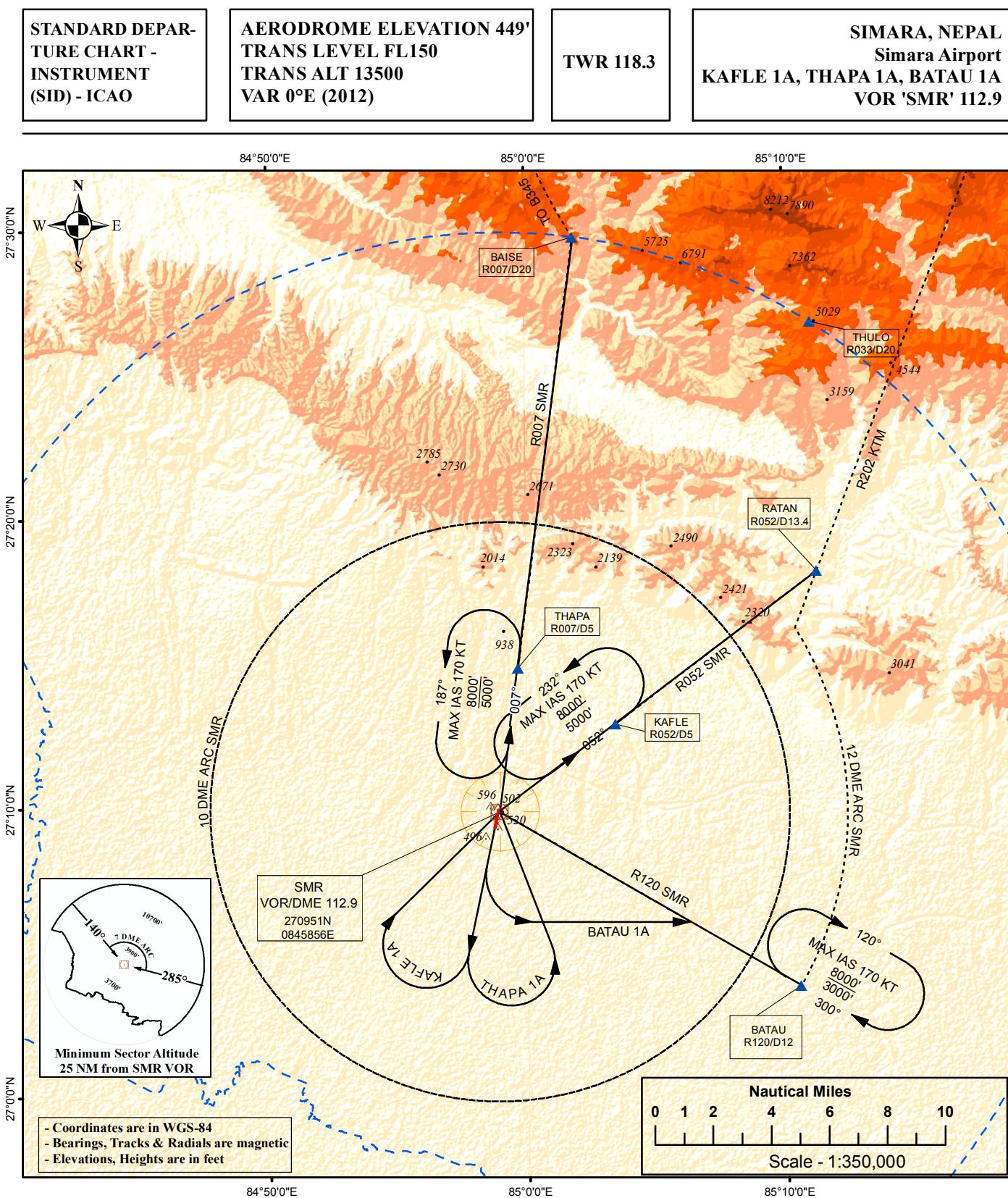
<b>AERODROME ELEVATION 449' TRANS LEVEL FL150 TRANS ALT 13500 VAR 0°E (2012)</b>	<b>TWR 118.3</b>	<b>SIMARA, NEPAL Simara Airport  VOR 'SMR' 112.9</b>
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## **IFR Holding Points**



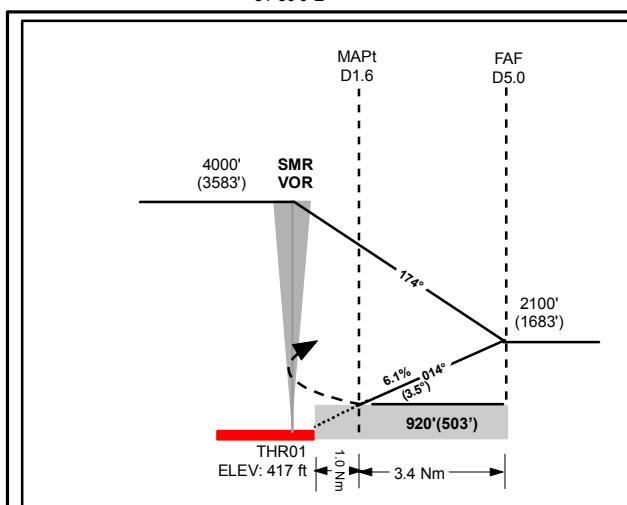
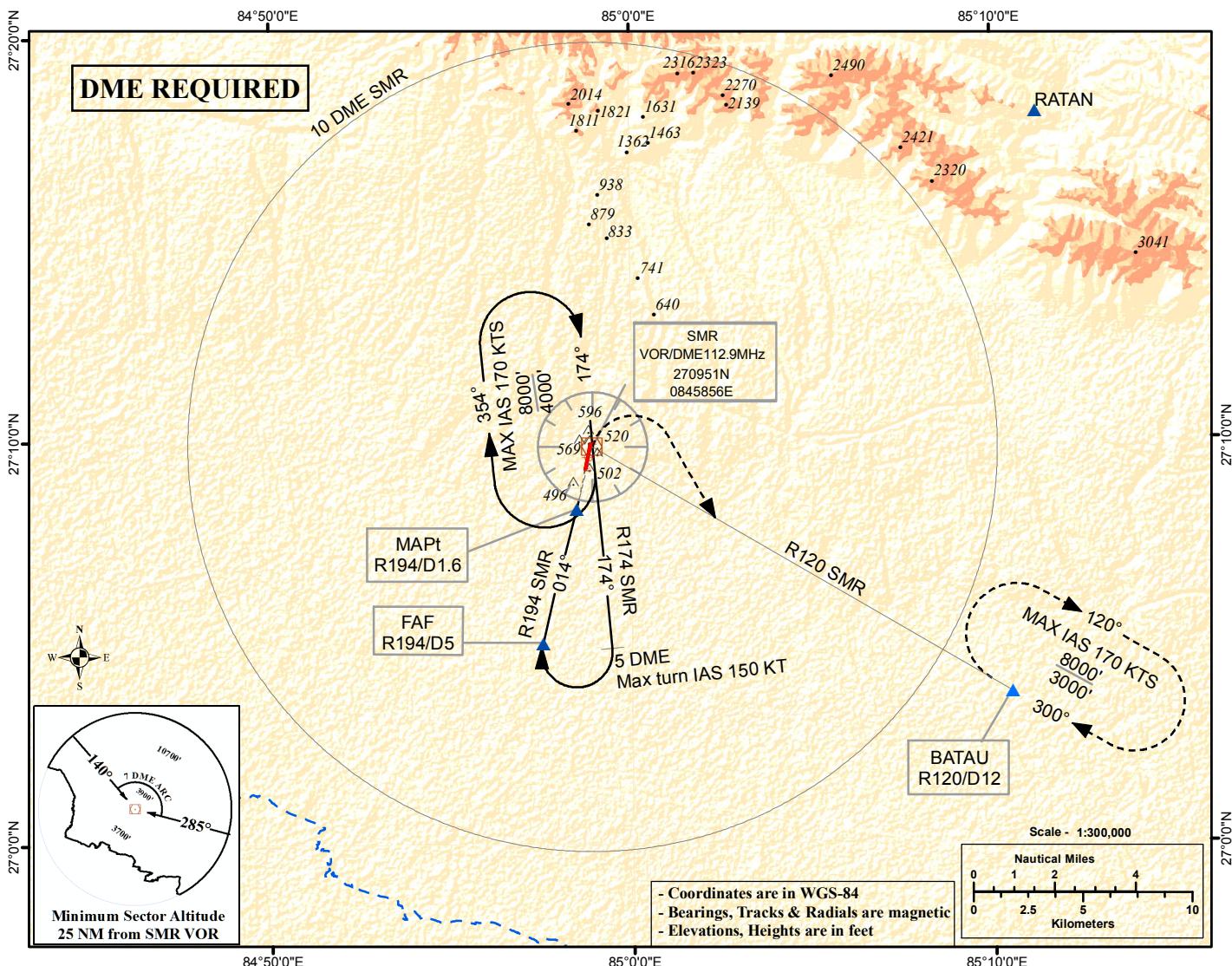
Holding	Location	<u>Max. Altitude</u> <u>Min. Altitude</u>	Max. IAS	Pattern	Inbound Track	Outbound Leg
SMR VOR	Over SMR VOR/DME	<u>8000 ft AMSL</u> 4000 ft AMSL	170 KTS	Right	174°	1 Minute
KAFLE	R052/D5 SMR VOR/DME	<u>8000 ft AMSL</u> 5000 ft AMSL	170 KTS	Left	052°	1 Minute
THAPA	R007/D5 SMR VOR/DME	<u>8000 ft AMSL</u> 5000 ft AMSL	170 KTS	Left	007°	1 Minute
BATAU	R120/D12 SMR VOR/DME	<u>8000 ft AMSL</u> 3000 ft AMSL	170 KTS	Right	300°	1 Minute

**Note:** BATAU holding is laterally separated with THAPA, KAFLE and SMR VOR holding.



SID	RWY	ROUTING	TRANSITION
KAFLE 1A PDG (5.4%)	19	Departure turn limited to 180 KT IAS. Climb straight ahead. At 5 DME, turn RIGHT to SMR VOR at or above 5000 ft. Then follow SMR outbound R052 to KAFLE H.P.	Reach 8000 ft over KAFLE and follow outbound R052 SMR to RATAN at or above 11500 ft.
THAPA 1A PDG (5.1%)	19	Departure turn limited to 180 KT IAS. Climb straight ahead. At 5 DME, turn LEFT to SMR VOR at or above 5000 ft. Then follow SMR outbound R007 to THAPA H.P.	Reach 6000 ft over THAPA and follow outbound R007 SMR to BAISE at or above 10500 ft. Then join B345 via 20 DME arc KTM.
BATAU 1A PDG (4.9%)	19	Departure turn limited to 150 KT IAS. Climb straight ahead. At 1000 ft, turn LEFT and intercept outbound R120 SMR VOR to BATAU H.P. at or above 3000 ft.	Reach 8000 ft over BATAU and follow 12 DME arc SMR VOR/DME and intercept R202 KTM by RATAN at or above 11500 ft.

<b>INSTRUMENT APPROACH CHART - ICAO</b>	<b>AERODROME ELEVATION 449' TRANS LEVEL FL150 TRANS ALT 13500 VAR 0°E (2012)</b>	<b>TWR 118.3</b>	<b>SIMARA, NEPAL Simara Airport VOR y RWY 01 VOR 'SMR' 112.9</b>
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### Missed Approach:

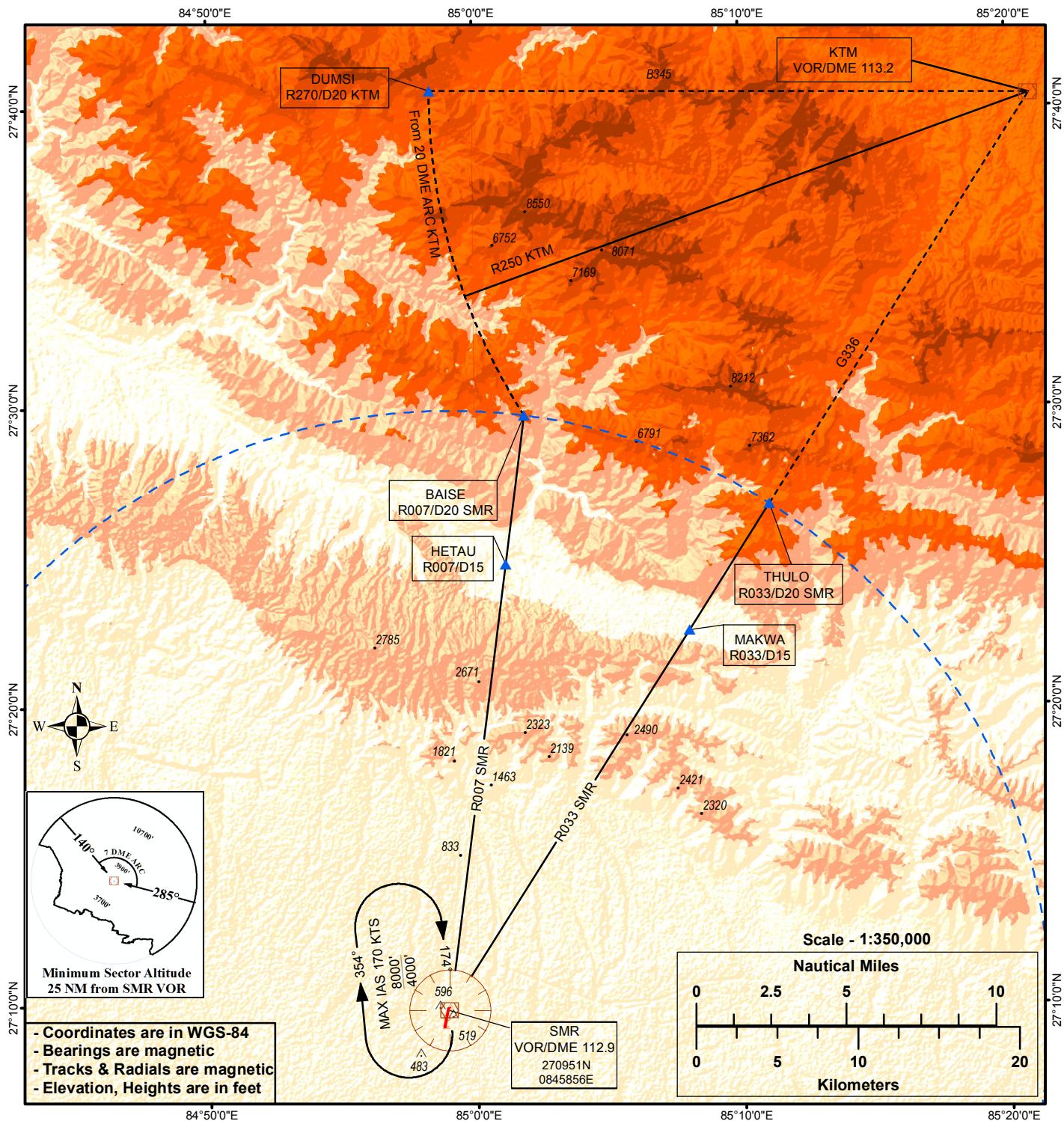
- No turn before MAPt.
  - Maximum turn IAS 150 kt.

**Continue inbound to SMR VOR. At SMR VOR turn right to intercept R120 SMR to BATAU H.P. at or above 3000 ft.**

**This procedure requires 2.8% minimum climb gradient at missed approach.**

	Aircraft Category			
	A		B	
	OCA (OCH)	Visibility	OCA (OCH)	Visibility
Straight-in	920' (503')	2400 m	920' (503')	2400 m
Circling	NOT AUTHORIZED			

<b>STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO</b>	<b>AERODROME ELEVATION 449' TRANS LEVEL FL150 TRANS ALT 13500 VAR 0°E (2012)</b>	<b>TWR 118.3</b>	<b>SIMARA, NEPAL Simara Airport DUMSI 1A Arrival THULO 2A Arrival VOR 'SMR' 112.9</b>
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INSTRUMENT APPROACH CHART - ICAO	AERODROME ELEVATION 449' TRANS LEVEL FL150 TRANS ALT 13500 VAR 0°E (2012)	TWR 118.3	SIMARA, NEPAL Simara Airport VOR z RWY 01 VOR 'SMR' 112.9
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