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AIP
SUPPLEMENT
03/13
11 June 13

DHARAVANDHOO AIRPORT

PURPOSE

The purpose of this AIP Supplement is to notify the aviation industry about the opening of Dharavandhoo Airport for regular domestic Air Transport Operations.

VALIDITY

This Supplement will remain current until the information is incorporated into AIP Maldives.

PART 3 – AERODROME

AD 1. AERODROMES/HELIPORTS

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AERODROME CHART

AD1.3 INDEX TO AERODROMES AND HELIPORTS

Aerodrome/heliport name Location indicator	Type of traffic permitted to use the aerodrome/heliport			Reference to AD Section and Remarks
	International – National (INTL – NTL)	IFR - VFR	S= Scheduled NS = Non scheduled P = Private	
1	2	3	4	5
AERODROMES GAN ISLAND/ Gan International VRMG	INTL - NTL	IFR - VFR	S – NS – P	AD 2 - VRMG
DHARAVANDHOO ISLAND/ Dharavandhoo VRMD	NTL	IFR -VFR	S – NS - P	AD 2 - VRMD
HANIMAADHOO ISLAND/Hanimaadhoo VRMH	INTL - NTL	IFR – VFR	S – NS – P	AD 2 - VRMH
KAADEDHDHOO ISLAND/Kaadedhdhoo VRMT	NTL	IFR – VFR	S – NS – P	AD 2 - VRMT
KADHDHOO ISLAND/Kadhdhoo VRMK	NTL	IFR – VFR	S – NS – P	AD 2 - VRMK
HULHULE ISLAND/Ibrahim Nasir International VRMM	INTL - NTL	IFR – VFR	S – NS – P	AD 2 - VRMM
MAAMIGILI ISLAND/ Villa airport Maamigili VRMV	INTL - NTL	IFR – VFR	S – NS – P	AD 2 - VRMV
FUVAHMULAH ISLAND/Fuvah Mulah Airport	NTL	IFR - VFR	S – NS - P	AD 2 - VRMR

2.1 Aerodrome Location Indicator and Name

VRMD – DHARAVANDHOO AIRPORT

2.2 Aerodrome Geographical and Administrative Data

1	ARP coordinates and site at AD	050922N0730749E Runway Mid- point
2	Direction and distance from City	063deg 0.376km
3	Elevation / Reference temperature	1.8 M (6 FT) / 30.2°C
4	MAG VAR/Annual change	3° W (2012) / Nil
5	AD Operator Address Telephone E- mail Address Website:	Island Aviation Services Limited 26, Ameer Ahmed Magu Male', 20026 Republic of Maldives Tel: (+960) 333 5566 Telefax: (+960) 331 4806 info@iasl.aero www.maldivian.aero
6	Types of traffic permitted (IFR/VFR)	IFR/VFR
7	Remarks	Nil

2.3 Operational Hours

1	AD Administration	0300 - 1000
2	Customs and Immigration	Nil
3	Health and sanitation	Nil
4	AIS Briefing office	Nil
5	ATS Reporting Office (ARO)	NIL
6	Met Briefing Office	Nil
7	ATS	HO
8	Fuelling	Nil
9	Handling	Nil
10	Security	H24
11	De-Icing	Not Applicable
12	Remarks	Nil

2.4 Handling Services and Facilities

1	<i>Cargo handling facilities</i>	Nil
2	<i>Fuel/oil types</i>	Nil
3	<i>Fuelling facilities/capacity</i>	Nil
4	<i>De- icing facilities</i>	Not Applicable
5	<i>Hanger space available for visiting aircraft</i>	Nil
6	<i>Repair facilities for visiting aircraft</i>	Nil
7	<i>Remarks</i>	Nil

2.5 Passenger Facilities

1	<i>Hotels</i>	Nil
2	<i>Restaurants</i>	Nil
3	<i>Transportation</i>	Nil
4	<i>Medical facilities</i>	Nil
5	<i>Bank/post</i>	Nil
6	<i>Tourist Office</i>	Nil
7	<i>Remarks</i>	Nil

2.6 Rescue and Fire- Fighting Services

1	<i>AD category for fire fighting</i>	CAT 5
2	<i>Rescue equipment</i>	Adequately provided as recommended by ICAO
3	<i>Capabilities for removal of disabled aircraft</i>	Nil
4	<i>Remarks</i>	Nil

2.7 Seasonal Availability – Clearing

1	<i>Types of clearing equipment</i>	Nil
2	<i>Clearance priorities</i>	Nil
3	<i>Remarks</i>	AD serviceable right throughout the year

2.8 Aprons, Taxiways and Check Locations Data

1	<i>Apron surface and strength</i>	Surface: Asphalt Strength: PCN15/F/B/X/T
2	<i>Taxiway width, surface and strength</i>	Width: 15 M Surface: Asphalt Strength: PCN15/F/B/X/T
3	<i>Altimeter Checkpoint Location and Elevation</i>	Location: Runway mid-point Elevation: 1.8 M
4	<i>VOR/INS checkpoint</i>	VOR: Nil INS: Nil
5	<i>Remarks</i>	Nil

2.9 Surface Movement Guidance and Control System and Markings

1	<i>Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands</i>	Nil
2	<i>RWY/TWY markings and LGT</i>	RWY: Designation and center line markings. TWY: center line and holding position markings.
3	<i>Stop bars</i>	Nil
4	<i>Remarks</i>	Nil

2.10 Aerodrome Obstacles

<i>In approach/TKOF areas</i>			<i>In circling area and at AD</i>		<i>Remarks</i>
1			2		3
<i>RWY/Area affected</i>	<i>Obstacle type elevation markings/LGT</i>	<i>Coordinates</i>	<i>Obstacle type elevation markings/LGT</i>	<i>coordinates</i>	
<i>a</i>	<i>b</i>	<i>c</i>	<i>a</i>	<i>b</i>	<i>c</i>
			Windsock 7.8M	0509331N 07307798E	
			Apron Flood Light Mast No.1 14.9M	0509323N 07308059E	
			Apron Flood Light Mast No.2 14.9M	0509305N 07308096E	

2.10 Aerodrome Obstacles

In approach/TKOF Areas			In Circling area and at AD		Remarks
1			2		3
RWY/AREA affected	Obstacle type Elevation Markings/LGT	Coordinates	Obstacle type Elevation Markings/LGT	Coordinates	
a	b	c	a	b	
			Control Tower 14M	050920.76N 07308096E	
			Wataniya Antenna 40M	0509547N 07307842E	
			Dhiraagu Antenna (island office) 21M	0509563N 07307865E	
			Dhiraagu Antenna (DRV airport) 21M	050920.35N 07308121E	

2.11 Meteorological Information Provided

1	<i>Associated MET Office</i>	Nil
2	<i>Hours of Service</i> <i>MET Office outside hours</i>	Nil Nil
3	<i>Office responsible for TAF preparation</i> <i>Periods of validity</i>	Nil Nil
4	<i>Type of landing forecast</i> <i>Interval of issuance</i>	Nil Nil
5	<i>Briefing / consultation provided</i>	Nil
6	<i>Flight documentation</i> <i>Language(s) used</i>	Charts, Plain Language
7	<i>Charts and other INFO AVBL</i>	Nil
8	<i>Supplementary EQPT AVBL for INFO for briefing or consultation</i>	Nil
9	<i>ATS Units Provided with information</i>	Dharavandhoo TWR Male' TWR
10	<i>Additional Information</i>	Nil

2.12 Runway Physical Characteristics

<i>Designation RWY NR</i>	<i>True & MAG BRG</i>	<i>Dimensions of RWY (M)</i>	<i>Strength (PCN) And surface of RWY and SWY</i>	<i>THR coordinates</i>	<i>THR elevation and highest elevation of TDZ of precision APP RWY</i>
1	2	3	4	5	6
11	116° GEO 119° MAG	1200 x 30	PCN 15/F/B/X/T Bituminous	050930N 0730732E	THR 1.8M/ 6 FT
29	296° GEO 299° MAG	1200 x 30		050913N 0730807E	THR 1.8M/ 6 FT

<i>Slope of RWY - SWY</i>	<i>SWY dimensions(M)</i>	<i>CWY dimensions(M)</i>	<i>Strip dimensions(M)</i>	<i>OFZ</i>	<i>Remarks</i>
7	8	9	10	11	12
0%	-	300X150	1320x150	Nil	Nil
0%	-	300x150	1320X150	Nil	Nil

2.13 Declared Distances

<i>RWY</i>	<i>TORA(M)</i>	<i>TODA(M)</i>	<i>ASDA(M)</i>	<i>LDA(M)</i>	<i>Remarks</i>
1	2	3	4	5	6
11	1200	1500	1200	1200	Nil
29	1200	1500	1200	1200	Nil

2.14 Approach and Runway Lighting

<i>RWY Designator</i>	<i>APP LGT type LEN INTST</i>	<i>THR LGT color WBAR</i>	<i>VASIS (MEHT) PAPI</i>	<i>TDZ LGT LEN</i>	<i>RWY center line LGT Length spacing color INTST</i>	<i>RWY edge LGT LEN spacing color INTST</i>	<i>RWY End LGT Color WBA R</i>	<i>SWY LGT LEN (M) color</i>	<i>Remark</i>
1	2	3	4	5	6	7	8	9	10
11	Nil	Green	APAPI Left /3deg 50ft	Nil	Nil	1200 58M White L/H	red -	Nil	Nil
29	Nil	Green	APAPI Left /3deg 50ft	Nil	Nil	1200 58M White L/H	Red -	Nil	Nil

2.15 Other Lighting, Secondary Power Supply

1	<i>ABN/IBN location characteristics and hours of operation</i>	ABN – On top of the tower Alternate W & G EV 5 sec /HN
2	<i>LDI location and LGT Anemometer location and LGT</i>	Nil
3	<i>TWY edge and centre line lighting</i>	Reflectors
4	<i>Secondary power supply /switch-overtime</i>	Secondary power supply to all lighting on RWY/ Switch- overtime: 15 seconds
5	<i>Remarks</i>	Nil

2.16 Helicopter Landing Areas

Nil

2.17 ATS Airspace

1	<i>Designation and lateral limits</i>	DHARAVANDHOO CTR A circle of 14Nm centered on ARP 05°09'22.41"N 073°07'48.99"E
2	<i>Vertical limits</i>	SFC TO 6,500 FT MSL
3	<i>Airspace classification</i>	D
4	<i>ATS Unit Language(s)</i>	DHARAVANDHOO TOWER English
5	<i>Transition Altitude</i>	11,000FT MSL
6	<i>Remarks</i>	VFR Traffic Area A and B (R ef attachment 2): reserved for VFR operations; Dharavandhoo TWR will NOT exercise control in these areas; and Pilots shall monitor and transmit position information on 128.8Mhz

2.18 ATS Communication Facilities

<i>Services Designation</i>	<i>Call sign</i>	<i>Frequency</i>	<i>Hours of operation</i>	<i>Remarks</i>
1	2	3	4	5
TWR	Dharavandhoo Tower	118.25 MHZ	HO	Nil

2.19 Radio Navigation and Landing Aids

Nil

2.20 Local Traffic Regulations

Nil

2.21 Noise Abatement Procedure

Nil

2.22 Flight Procedures

1 Standard (Instrument) Arrival Routes at Dharavandhoo Airport

STARs EMMIN 1 A, 1B and NASIM 1A, 1B are established (Ref attachment 4A and 4B). Basic RNP1 is required to fly the STARS.

2 RNP APCH procedures for Dharavandhoo Runway 29 and 11

RNP APCH (LNAV) procedures are established for RWY29 and RWY 11. RNP 0.3 is required to fly the approach procedures. (Ref attachment 3A and 3B)

3 Y991 (RNAV 5)

Y991 (RNAV 5) domestic route is established to provide more direct routing between Male' and Dharavandhoo or Dharavandhoo and Hanimaadhoo (ref attachment 1). RNAV 5 is required to fly the route.

Aircraft from VRMD to VRMH, on Y991, shall be considered on a track 180-359 when assigning cruising level.

Aircraft from VRMH to VRMD, on Y991, shall be considered on a track 000-179 when assigning cruising level.

4 VFR operations within the vicinity of Dharavandhoo

VFR aircraft operating within Dharavandhoo CTR shall contact Dharavandhoo Tower frequency 118.25. When Dharavandhoo Tower is closed pilots may continue to monitor and transmit position information on Dharavandhoo Tower frequency

VFR Area A and B within Dharavandhoo CTR (Ref attachment 2) are reserved particularly for seaplanes in the vicinity of Dharavandhoo . Dharavandhoo TWR will NOT exercise control in these areas. Pilots shall monitor and transmit position information on 128.8Mhz.

VFR aircraft may cross the extended centre line of the Runway via the designated VFR Flight Path at 500 feet. Pilot shall monitor the Tower frequency while crossing the extended centre line.

Note: seaplanes may cross the extended centre line beyond the VFR Flight Path at 500 feet, maintaining listening watch on Tower frequency.

2.23 Additional Information

Nil

2.24 Charts related to an Aerodrome

Attachment 1 – Domestic RNAV route Y991

Attachment 2 – Dharavandhoo Control Zone

Attachment 3A – Instrument Approach Chart RWY 29

Attachment 3B – Instrument Approach Chart RWY 11

Attachment 4A – Standard Arrival Chart

Attachment 4B – Standard Arrival Chart 2

Attachment 5A – Aerodrome Chart

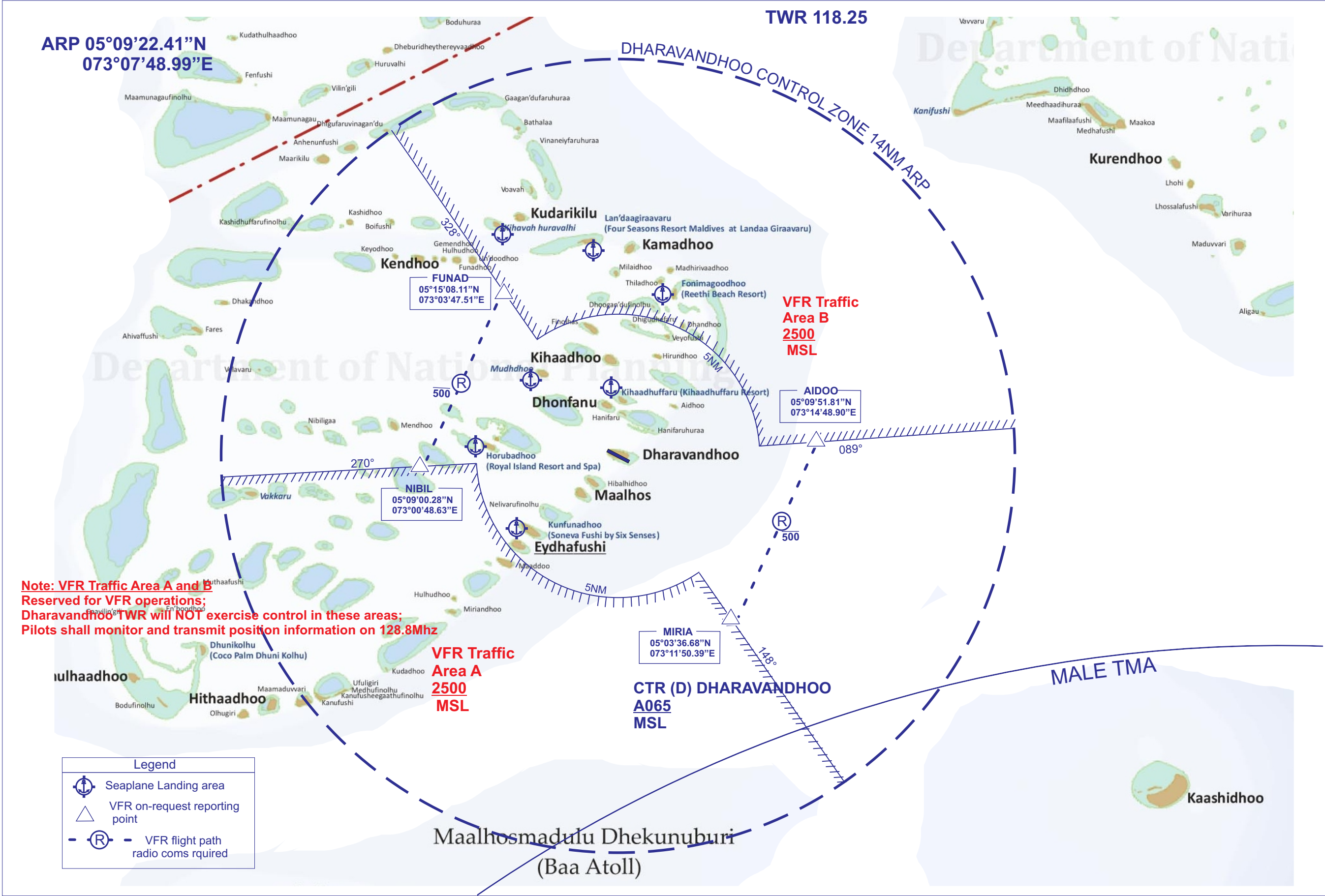
Attachment 5B – Marking Aids RWY11/29 and Exit Taxiway

Attachment 5C – Lighting Aids RWY11/29 and Exit Taxiway

Y991 (RNAV 5)



DHARAVANDHOO CONTROL ZONE



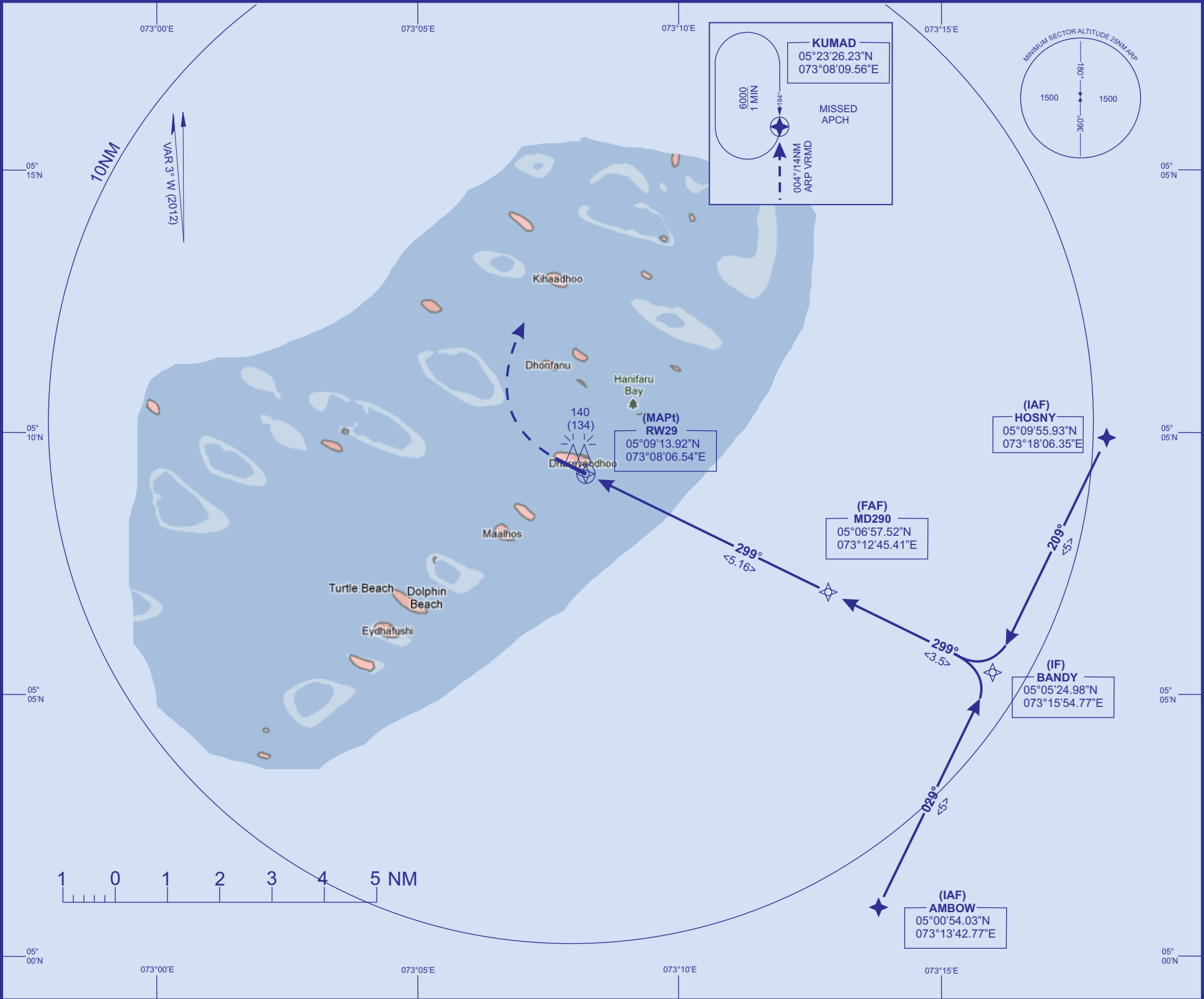
INSTRUMENT
APPROACH
CHART

ELEV 6ft
HEIGHT RELATED TO
THR RWY 29 - ELEV 6ft

BEARINGS ARE MAGNETIC
ALTITUDE, ELEVATION AND
HEIGHTS ARE IN FEET

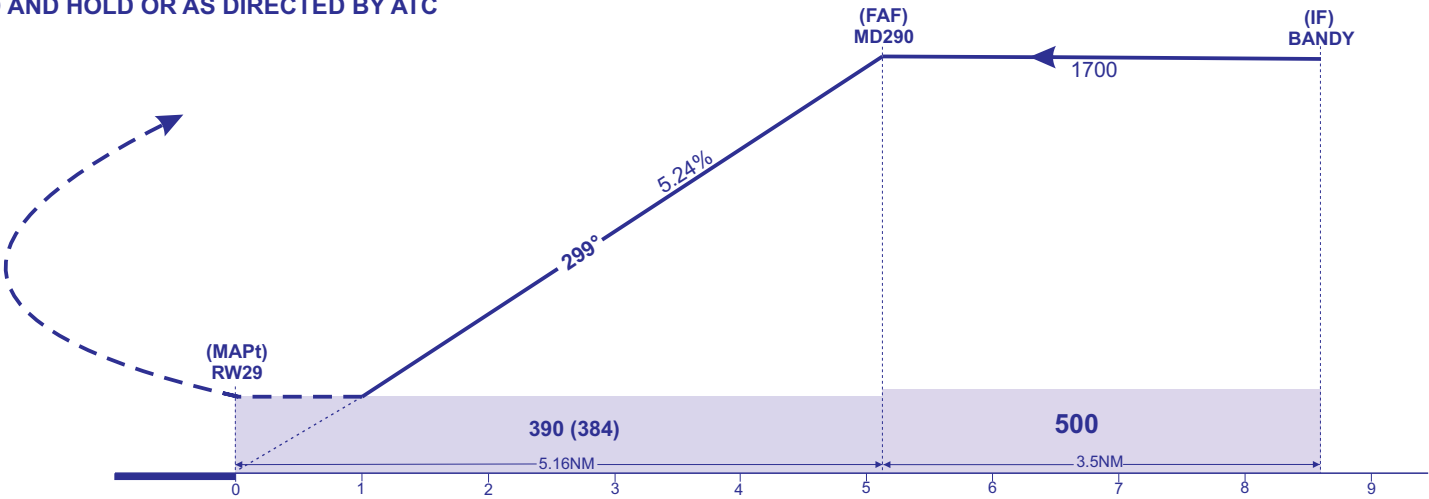
TOWER: 118.25

DHARAVANDHOO AIRPORT
RNAV (GNSS) RWY 29



MISSED APPROACH
CLIMB STRAIGHT AHEAD TO 6000 FEET, PASSING 5500 FEET TURN
RIGHT PROCEED DIRECT TO KUMAD AND HOLD OR AS DIRECTED BY ATC

RNP 0.3 GNSS REQUIRED



AIRCRAFT CATEGORY	A			B	
LNAV MDA(MDH)	390 (384)				
DISTANCE TO THRESHOLD	1	2	3	4	5
ALTITUDE (HEIGHT)	360 (354)	670(664)	980(974)	1290(1284)	1600(1594)

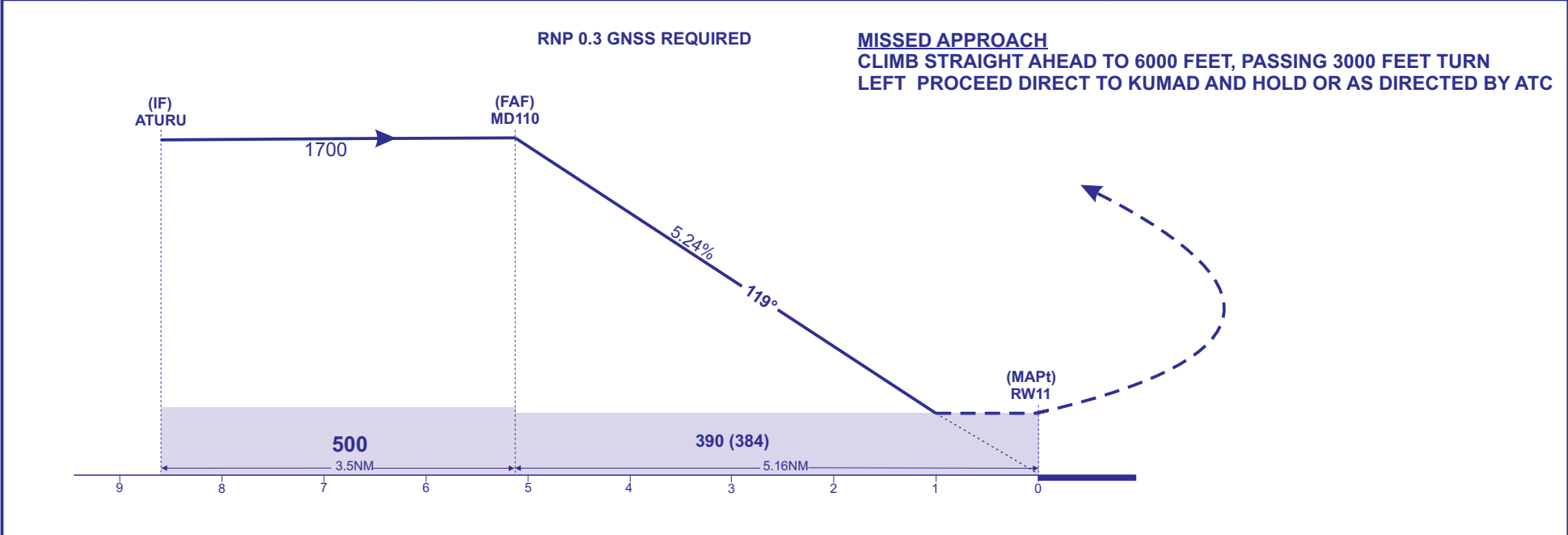
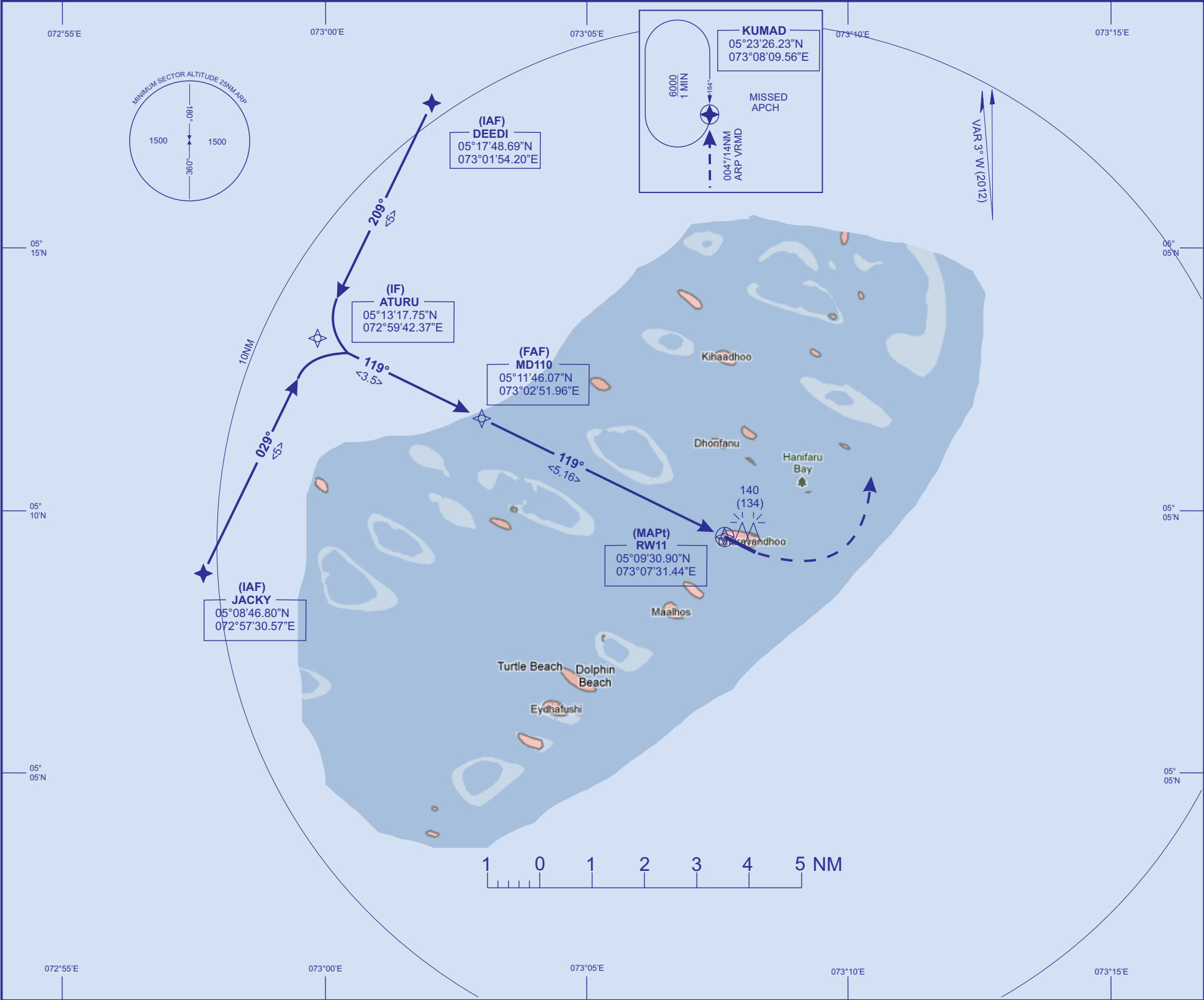
INSTRUMENT
APPROACH
CHART

ELEV 6ft
HEIGHT RELATED TO
THR RWY 11 - ELEV 6ft

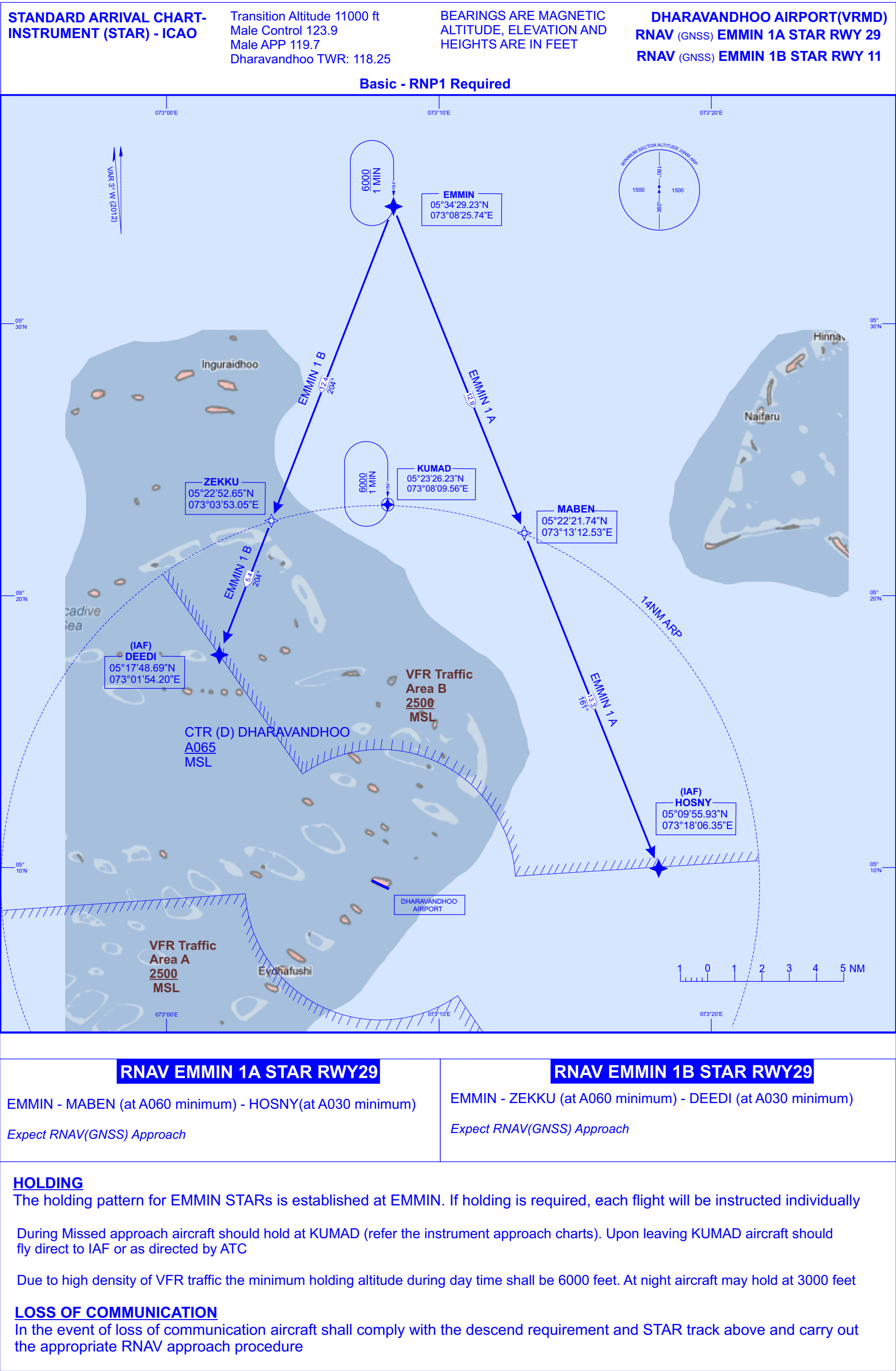
BEARINGS ARE MAGNETIC
ALTITUDE, ELEVATION AND
HEIGHTS ARE IN FEET

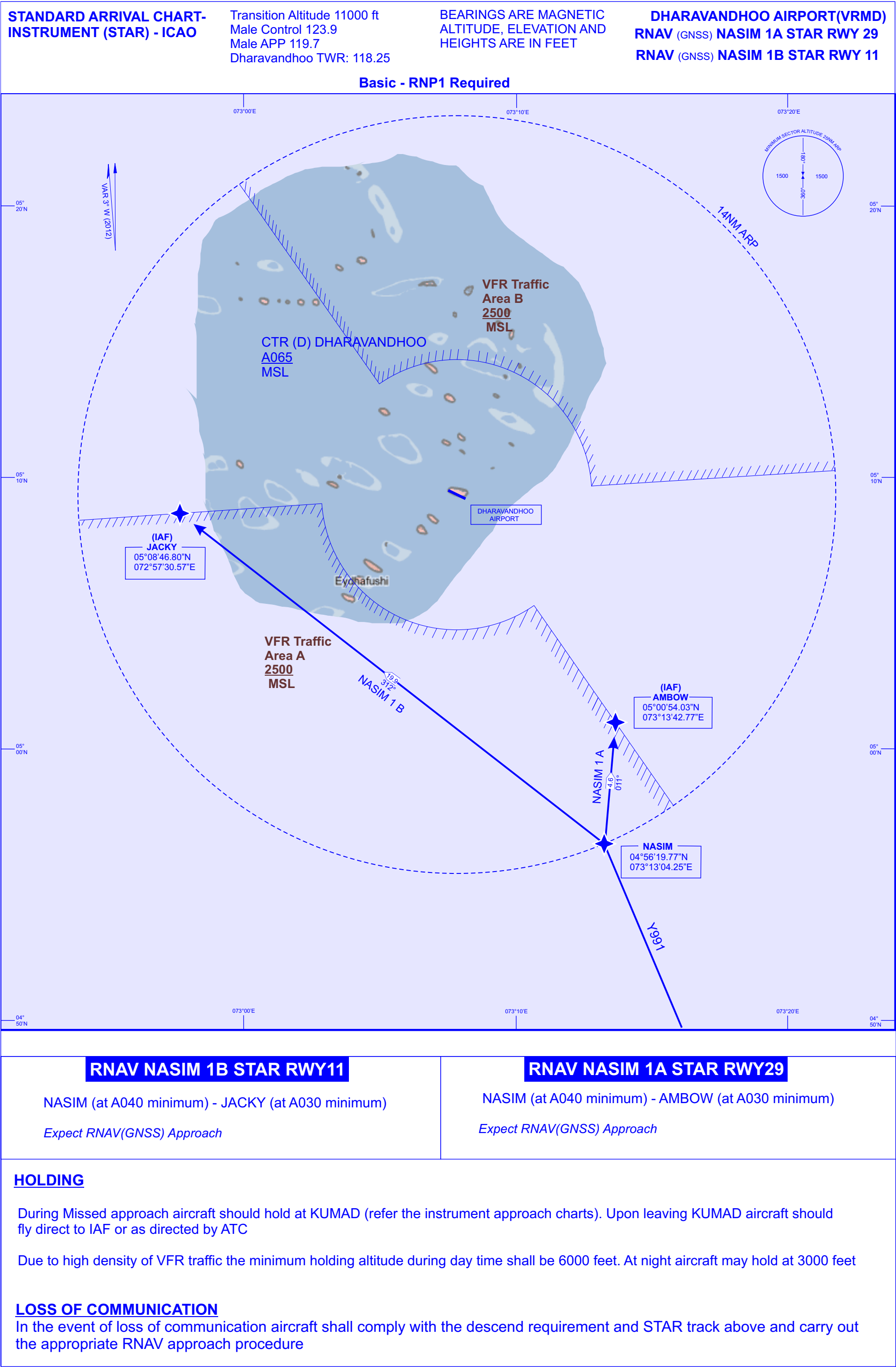
TOWER: 118.25

DHARAVANDHOO AIRPORT
RNAV (GNSS) RWY 11



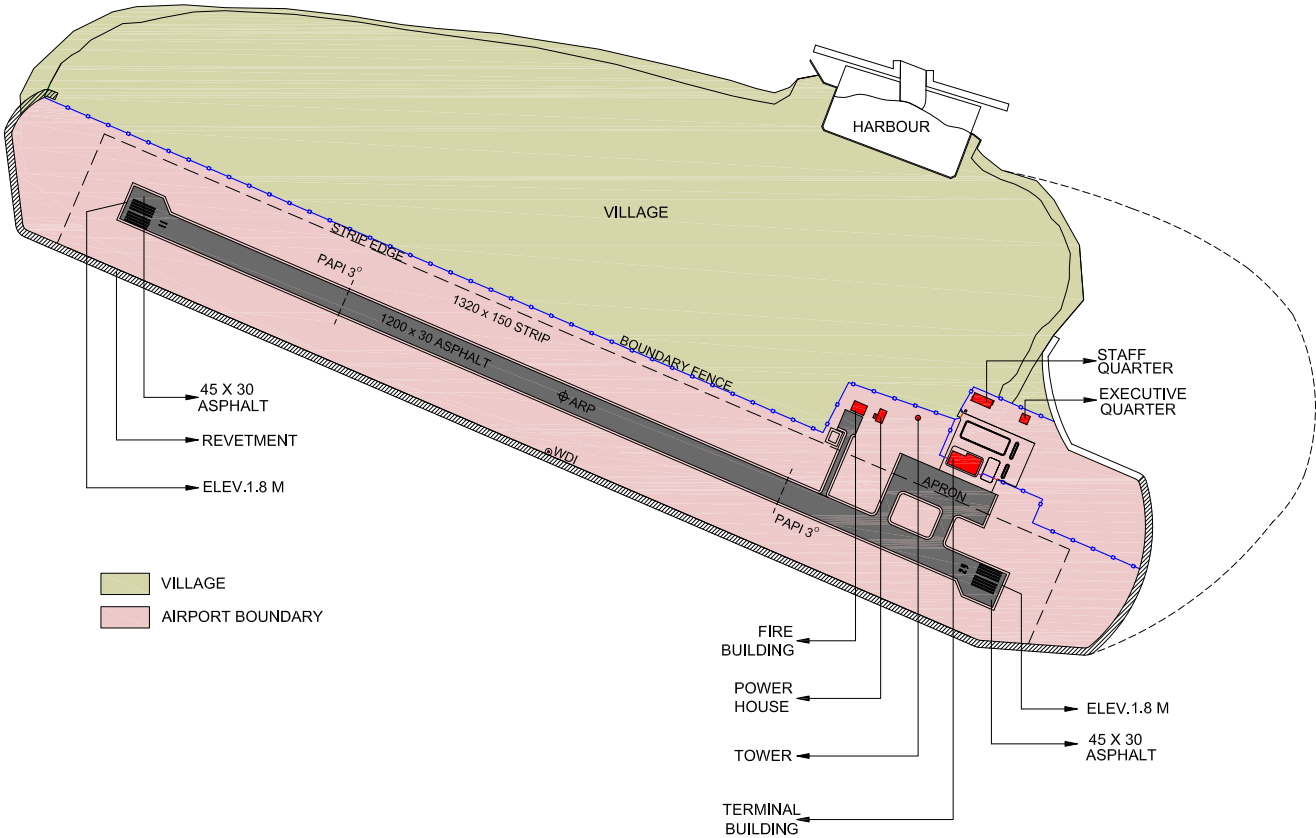
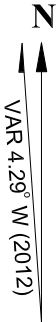
AIRCRAFT CATEGORY	A			B	
LNAV MDA(MDH)	390 (384)				
DISTANCE TO THRESHOLD	5	4	3	2	1
ALTITUDE (HEIGHT)	1600 (1594)	1290(1284)	980(974)	670(664)	360(354)





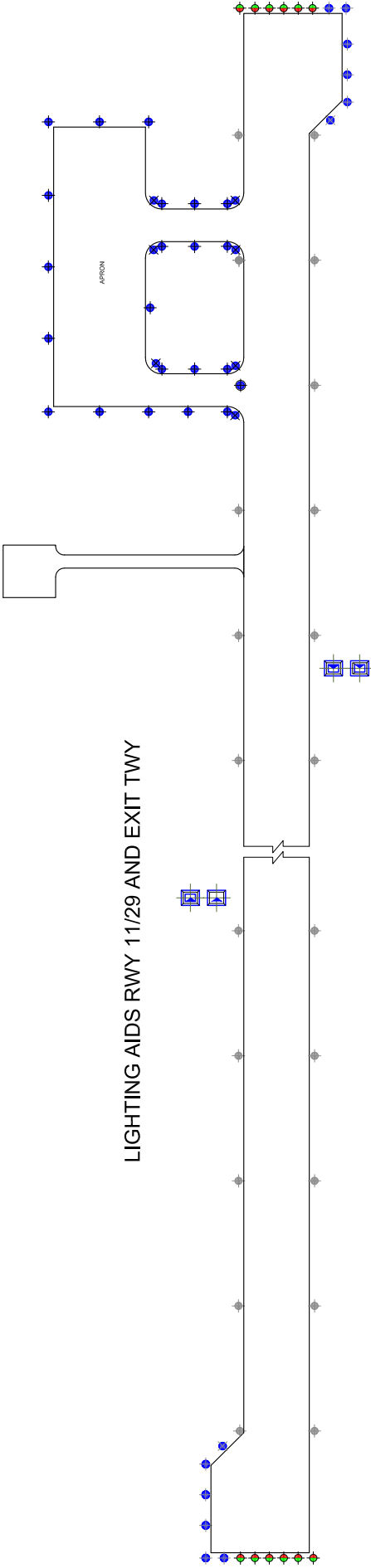
RWY	DIRECTION (TRUE)	THR	BEARING STRENGTH
11	113°	5° 09' 30" N 73° 07' 32" E	RWY 11/29 PCN 15/F/B/X/T TWY A,B PCN 15/F/B/X/T
29	293°	5° 09' 13" N 73° 08' 07" E	APRON PCN 15/F/B/X/T

ELEVATIONS AND DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC

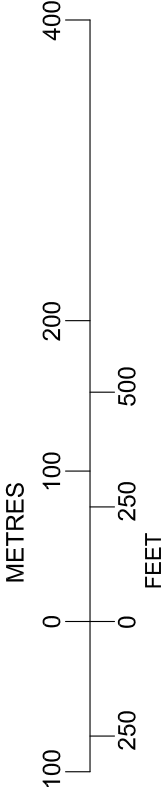


AERODROME CHART

B. DHARAVANDHOO /
DHARAVANDHOO AIRPORT



- RUNWAY EDGE LIGHTS
- RUNWAY END LIGHTS
- TAXIWAY & TURNING LOOP
(Retro - reflective reflectors)



AERODROME CHART

B. DHARAVANDHOO /
DHARAVANDHOO AIRPORT

MARKING AIDS Rwy 11/29 AND EXIT TWY

