VTCP AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VTCP - PHRAE / PHRAE AIRPORT

VTCP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	180754.17N 1000952.62E
2	Direction and distance from (city)	3 KM E, from city
3	Elevation/Reference temperature	538 FT/27°C
4	Geoid Undulation at AD ELEV PSN	NIL
5	MAG VAR/Annual change	0.80°W (2016)/0.00°E
6	AD Administration, address, telephone, telefax, telex, AFS	Director of Phrae Airport Phrae Airport 72 Chohae Road, Tambon Nachack Amphoe Muangphrae, Phrae Province 54000 Thailand Tel: +665 451 1184 +665 452 2706 Fax: +665 452 2705 AFS: VTCPYDYX
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Operator: Department of Airports

VTCP AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	2300-1100
2	Customs and immigration	NIL
3	Health and sanitation	NIL
4	AIS Briefing Office	NIL
5	ATS Reporting Office (ARO)	2300-1100
6	MET Briefing Office	NIL
7	ATS	2300-1100
8	Fuelling	NIL
9	Handling	NIL
10	Security	NIL
11	De-icing	NIL
12	Remarks	ATS Reporting Office (ARO): Located at Phitsanulok Airport (1st floor of airport building) Tel: +665 530 1078 +669 2262 3140 Fax: +665 530 1077

VTCP AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	NIL
2	Fuel/oil types	NIL
3	Fuelling facilities/capacity	NIL
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

VTCP AD 2.5 PASSENGER FACILITIES

1	Hotels	In the city
2	Restaurants	In the city
3	Transportation	NIL
4	Medical facilities	NIL
5	Bank and Post Office	NIL
6	Tourist Office	NIL
7	Remarks	NIL

VTCP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Category 5
2	Rescue equipment	Yes
3	Capability for removal of disabled aircraft	NIL
4	Remarks	NIL

VTCP AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Types of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	The aerodrome is available all seasons.

VTCP AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSTIONS DATA

1	Apron surface and strength	Surface: Concrete and asphalt Strength: PCN 20/F/C/X/T
2	Taxiway width, surface and strength	Width: 15 M Surface: Concrete and asphalt Strength: PCN 20/F/C/X/T
3	Altimeter checkpoint location and elevation	NIL
4	VOR checkpoints	NIL
5	INS checkpoints	NIL
6	Remarks	NIL

VTCP 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	NIL
2	RWY and TWY markings and LGT	RWY and TWY: Markings and lighted
3	Stop bars	NIL
4	Remarks	NIL

VTCP AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			In circling areas 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**	
-	Radio mast HGT 75 M painted red/white LGTD on top	10840N 1000850E	NIL	NIL	NIL
-	Radio mast HGT 80 M	1881036N 1001116E	NIL	NIL	NIL

VTCP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	Aeronautical Meteorological Station-Phrae, Northern Meteorological Center, Thai Meteorological Department (TMD)
2	Hours of service MET Office outside hours	2200-1100 NIL
3	Office responsible for TAF preparation Periods of validity	Supply TAF from Northern Meteorological Center 24 HR
4	Type of landing forecast Interval of issuance	TREND 1 HR
5	Briefing/consultation provided	Personal Consultation Tel: +665 453 1307 ext. 4508
6	Flight documentation Language(s) used	NIL
7	Charts and other information available for briefing or consultation	S, U85, Daily Weather Forecast, satellite and radar images
8	Supplementary equipment available for providing information	Automated Weather Observation System (AWOS)
9	ATS units provided with information	Phrae TWR
10	Additional information (limitation of service, etc.)	NIL

VTCP AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
01	005.39°	1500x30	PCN 20/F/C/X/T Concrete and asphalt	180731.41N 1000950.31E	THR 538 FT TDZ 538 FT
19	185.39°	1500x30	PCN 20/F/C/X/T Concrete and asphalt	180820.20N 1000955.27E	THR 535 FT TDZ 537 FT

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
NIL	75x30	NIL	1770x150	NIL	NIL
NIL	75x30	NIL	1770x150	NIL	NIL

VTCP AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
01	1500	1500	1575	1500	NIL
19	1500	1500	1575	1500	NIL

VTCP AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
01	NIL	Green	PAPI Left 3° (44.98 FT)	NIL	NIL	1500 M 55.56 M White, LIM	Red	75 M Red	NIL
19	NIL	Green	PAPI Left 3.2° (45.77 FT)	NIL	NIL	1500 M 55.56 M White, LIM	Red	75 M Red	NIL

VTCP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: At Tower Building FLG W G EV 7 SEC
2	LDI location and LGT Anemometer location and LGT	NIL
3	TWY edge and centre line lighting	EDGE: All TWY
4	Secondary power supply/switch-over time	Secondary power supply to all lighting at the airport Switch-over time: 15 SEC.
5	Remarks	Flares 2 HR PN

VTCP AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO Geoid undulation	NIL
2	TLOF and/or FATO elevation M/FT	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True and MAG BRG of FATO	NIL
5	Declared distance available	NIL
6	APP and FATO lighting	NIL
7	Remarks	NIL

VTCP AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	A circle of 5 NM radius centred on Phrae DVOR/DME (180802.78N 1000958.35E)
2	Vertical limits	2000 FT/AGL
3	Airspace classification	C
4	ATS unit call sign Language(s)	Phrae Tower English, Thai
5	Transition altitude	11000 FT
6	Remarks	NIL

VTCP AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	Phrae Approach	120.1 MHZ 121.5 MHZ 1)	As AD OPR HR	1) Emergency frequency
TWR	Phrae Tower	121.5 MHZ 1) 118.6 MHZ 236.6 MHZ	As AD OPR HR	
ATIS	Phrae Airport	340.0 KHZ	As AD OPR HR	

VTCP AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR CAT of ILS/MLS (For VOR/ILS/ MLS, give VAR)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB	PR	340KHZ	H24	180746.14N 1000940.91E		The coverage clockwise orbit data refer to commissioning check due to excessive ADF needle oscillation in various areas within 50 NM radius as follows: – Bearing 001°-040° altitude should not below 7 000 FT – Bearing 041°-180° altitude should not below 8 000 FT – Bearing 181°-200° altitude should not below 5 000 FT – Bearing 201°-260° altitude should not below 8 000 FT – Bearing 261°-360° altitude should not below 6 000 FT
DVOR/DME	PAE	111.8MHZ CH55X	H24	180802.78N 1000958.35E		DVOR/DME restrictions, 1. Unusable due to roughness out of tolerance on radial 146° distance between 7.0-8.0 DME altitude 7 000 FT 2. Due to mountainous terrain surround DVOR/DME station, coverage check does not provide adequate signal to 40 NM at the required altitude in various areas as follows: – Radial 055º-080º altitude should not below 9 000 FT – Radial 081º-160º altitude should not below 11 000 FT – Radial 161º-180º altitude should not below 8 000 FT – Radial 181º-350º altitude should not below 6 000 FT – Radial 351º-054º altitude should not below 6 500 FT

VTCP AD 2.20 LOCAL AERODROME REGULATIONS

NIL

VTCP AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VTCP AD 2.22 FLIGHT PROCEDURES

1. IFR DEPARTURES OTHER THAN VIA SID

IFR departure procedures described below are determined for the purpose of case when an instrument departure via SID is impossible or undesirable.

2. VISUAL DEPARTURES

Visual departures during take-off and initial climb-out are permitted during the daytime and Visual Meteorological Conditions (VMC). ATC clearance to execute a visual departure may be issued upon request of the pilot or upon initiative of the ATC and accepted by the pilot.

To execute a visual departure

- meteorological conditions in the direction of take-off and the following climb-out shall enable visual reference to terrain up to Minimum Sector Altitude (MSA) or Minimum Flight Altitude (MFA) stated in ATC clearance,

- the pilot shall be responsible for obstacle clearance until such specified altitude,

- the pilot prior to take-off shall agree to execute this procedure,

- the ATC clearance shall be readback,

3. OMNIDIRECTIONAL DEPARTURES

Omnidirectional departures during take-off and initial climb-out are permitted during the day and night. ATC clearance to execute an omnidirectional departure may be issued upon request of the pilot or upon initiative of the ATC and accepted by the pilot.

To execute an omnidirectional departure:

- the pilot shall be maintaining a minimum climb gradient up to specific altitude as published shown as below,
- the pilot shall be responsible for adherence to such obtained ATC clearance,
- the pilot prior to take-off shall agree to execute this procedure,
- The ATC clearance shall be readback,

- Runway 01:

PHRAE OMNI 01 Departure: Required climb gradient 286 ft per NM (4.7%) until 7,500 ft.

Ground speed	Knot	65	75	100	150	200	250	300
Rate of climb 4.7%	(ft/min)	309	357	476	714	952	1190	1428

No turn before DER.
After departure climb straight ahead until 3,500 ft (or altitude assigned by ATC between 3,500 ft - 6,500 ft), then comply with ATC clearance issued (or as directed by ATC).

- Runway 19:

PHRAE OMNI 19 Departure: Required climb gradient 487 ft per NM (8.0%) until 7,500 ft.

Ground speed	Knot	65	75	100	150	200	250	300
Rate of climb 8.0%	(ft/min)	527	608	810	1215	1620	2025	2430

No turn before DER.
After departure climb straight ahead until 3,500 ft (or altitude assigned by ATC between 3,500 ft - 6,500 ft), then comply with ATC clearance issued (or as directed by ATC).

VTCP AD 2.23 ADDITIONAL INFORMATION

NIL

VTCP AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO

18 07 54 N
100 09 53 E

ELEV 538 FT

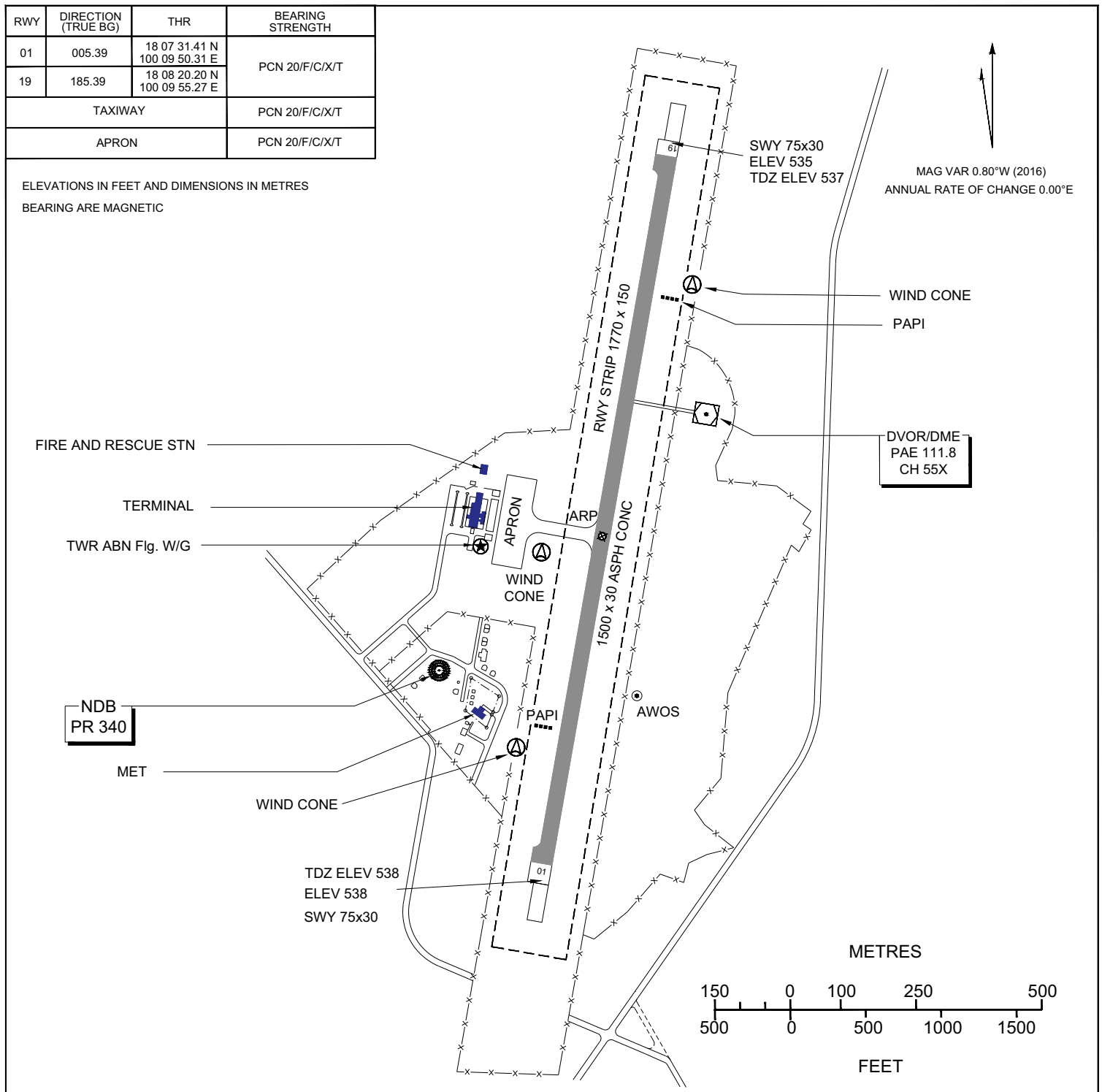
TWR 118.60 236.60

PHRAE / Phrae

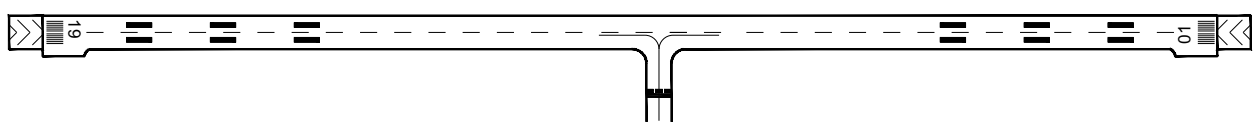
RWY	DIRECTION (TRUE BG)	THR	BEARING STRENGTH
01	005.39	18 07 31.41 N 100 09 50.31 E	PCN 20/F/C/X/T
19	185.39	18 08 20.20 N 100 09 55.27 E	
TAXIWAY			PCN 20/F/C/X/T
APRON			PCN 20/F/C/X/T

ELEVATIONS IN FEET AND DIMENSIONS IN METRES

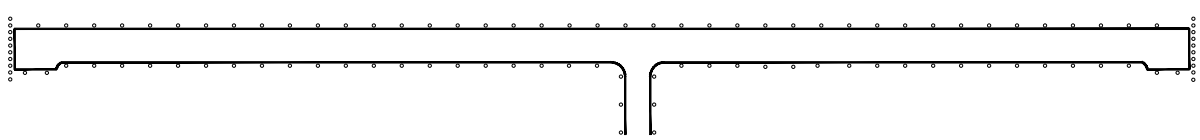
BEARING ARE MAGNETIC



MARKING AIDS RWY 01/19 AND EXIT TWY



LIGHTING AIDS RWY 01/19 AND EXIT TWY



CHANGE :REVISED CHART. MAG VAR. ANNUAL RATE OF CHANGE. TABULAR INFO. PAPI. WIND CONE ADDED. AWOS ADDED. FENCE ADDED.

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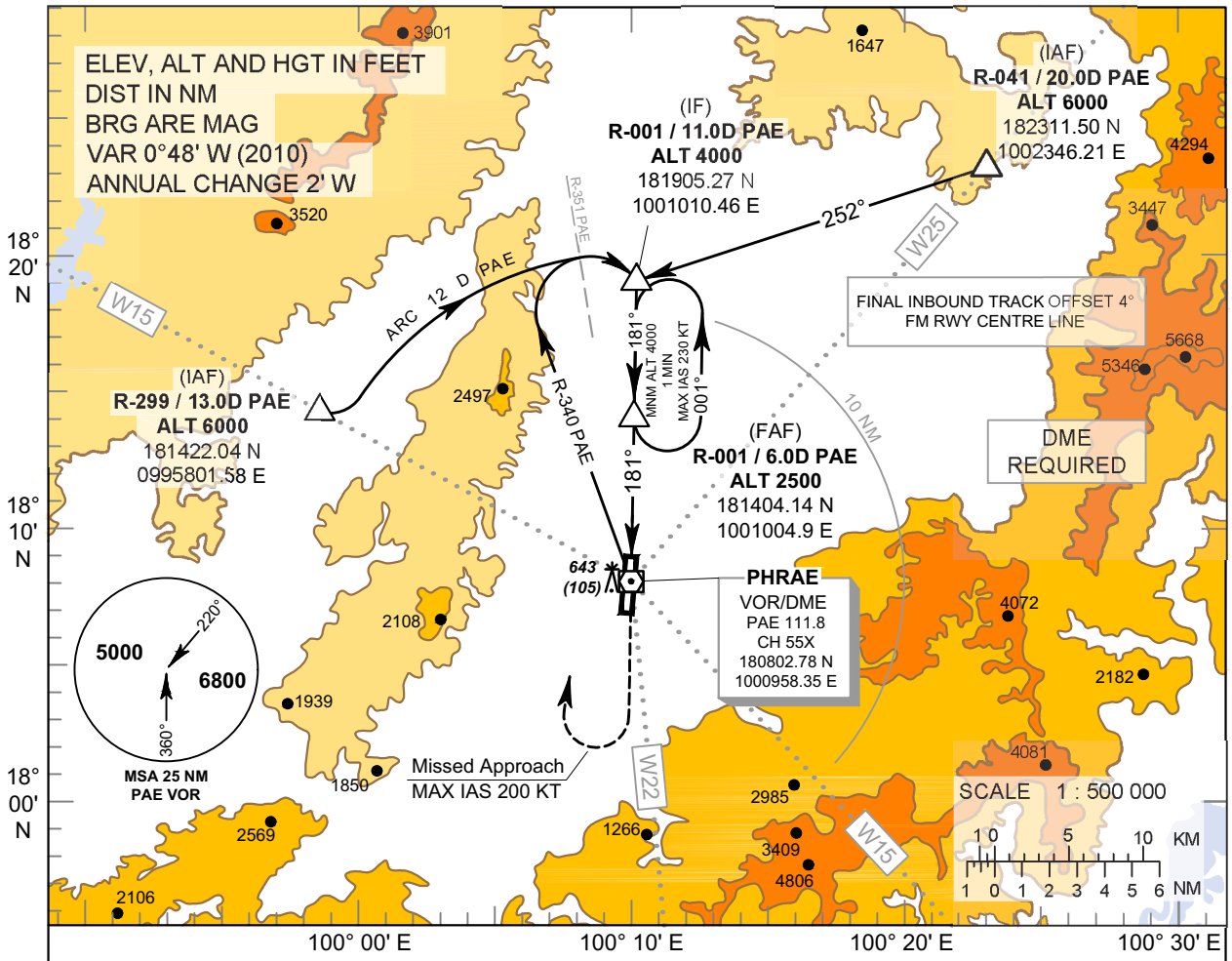
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 538 FT
HEIGHTS RELATED TO AERODROME ELEV

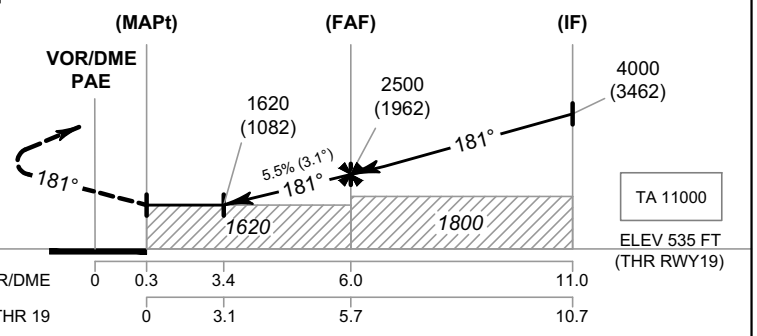
APP : 120.1
TWR : 118.6

PHRAE / Phrae (VTCP)
VOR RWY 19



* Descent gradient not coincident with PAPI

MISSED APPROACH :
No turn before MAPt .
Speed restricted to MAX IAS 200 KT until after turn.
Climb on track 181° to PAE VOR then climb on R-181 to 2000 (1465) FT then turn right to 4000 (3465) FT then back to FAF 4000 (3465) FT and hold or as directed by ATC.



OCA/H	A	B	C	Distance (PAE)	3.4 D	4 D	5 D	FAF
Straight-in approach	1620 (1082)			Altitude (Height)	1620 (1082)	1825 (1287)	2160 (1622)	2500 (1962)
				Ground speed (GS)	knot	90	100	120	140	160	180
Circling (OCH AAL)	1700 (1162)			Rate of descent	(ft/min)	501	557	668	780	891	1003

CHANGE : REALIGNMENT. OCA. CIRCLING. MAPt SPEED. CHART TITLE.

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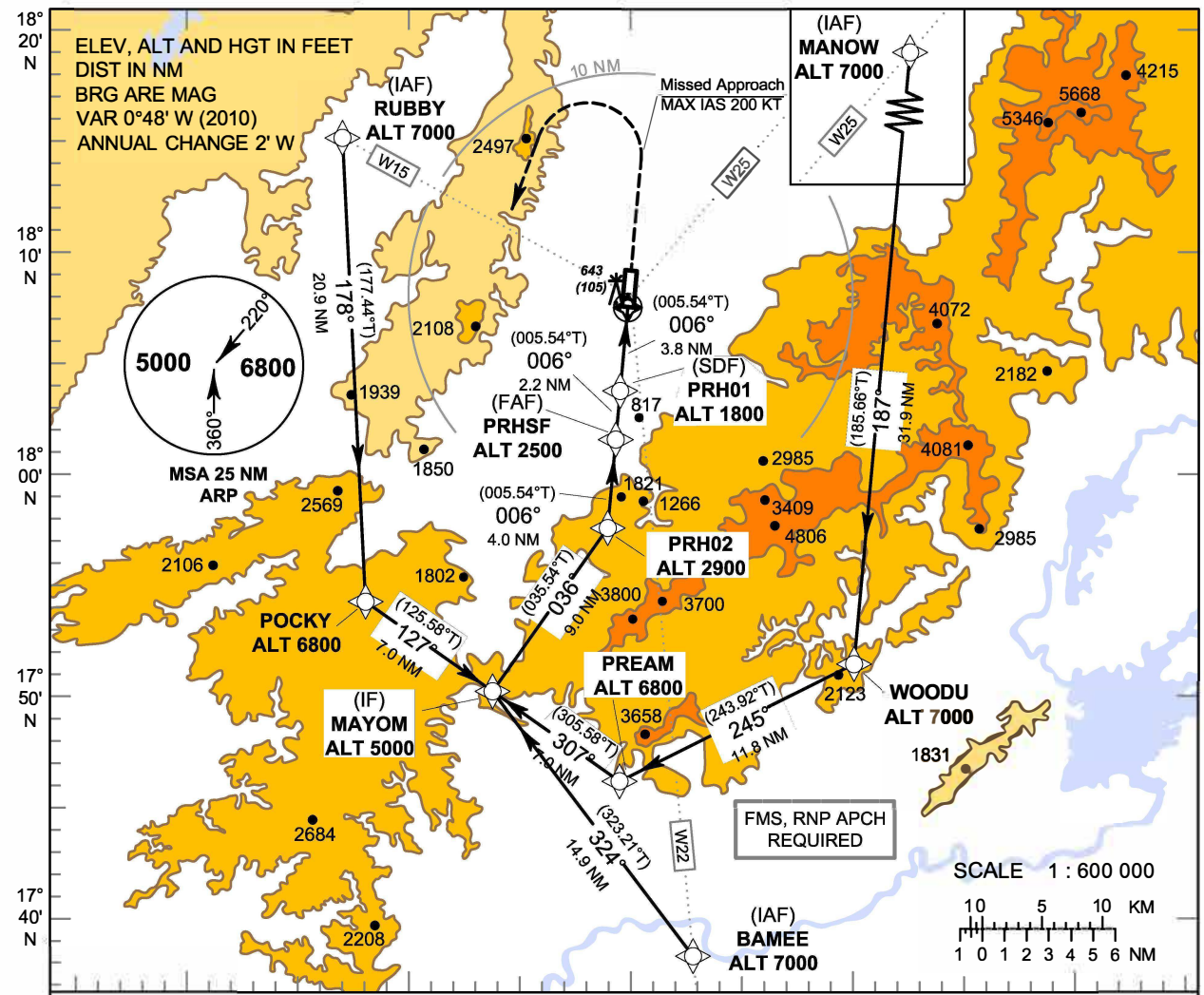
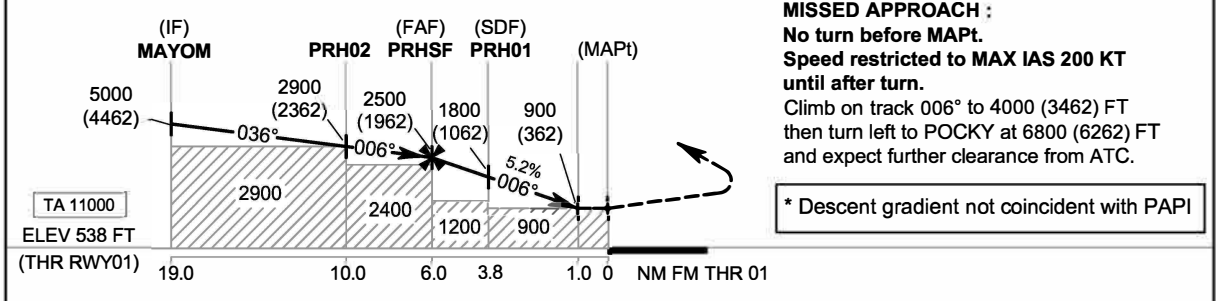
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 538 FT
HEIGHTS RELATED TO AERODROME ELEV

APP : 120.1
TWR : 118.6

PHRAE/ Phrae (VTCP)
RNP RWY 01





MISSED APPROACH :
No turn before MAPt.
Speed restricted to MAX IAS 200 KT until after turn.
Climb on track 006° to 4000 (3462) FT then turn left to POCKY at 6800 (6262) FT and expect further clearance from ATC.

* Descent gradient not coincident with PAPI

CHANGE: CHART TITLE.

OCA/H	A	B	C	NM to THR 01	FAF	5 NM	4 NM	3 NM	2 NM	1 NM
LNAV	900 (362)			Altitude (Height)	2500 (1962)	2170 (1632)	1850 (1312)	1535 (997)	1220 (682)	900 (362)
				Ground speed (GS)	knot	100	120	140	160	180	200
Circling (OCH AAL)	1200 (662)			Rate of descent	(ft/min)	530	630	740	845	950	1055

PHRAE / Phrae (VTCP)

RNP RWY 01

Serial Number	Path Descriptor	Waypoint Identifier	WGS-84 Coordinates		Flyover	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KT)	VPA/ TCH	Navigation Specification
			Latitude	Longitude									
001	IF	BAMEE (IAF)	17 38 09.59N	100 12 43.43E	-	324°(323.21°)	0.93	14.9	-	7000	-	-	RNP APCH
002	IF	MANOW (IAF)	18 23 08.23N	100 23 42.42E	-	187°(185.66°)	0.93	31.9	-	7000	-	-	RNP APCH
004	TF	WOODU	17 51 18.24N	100 20 24.72E	-	245°(243.92°)	0.93	11.8	R	7000	-	-	RNP APCH
005	TF	PREAM	17 46 05.42N	100 09 18.39E	-	307°(305.58°)	0.93	7.0	R	6800	-	-	RNP APCH
003	IF	RUBBY (IAF)	18 15 13.65N	099 56 23.10E	-	178°(177.44°)	0.93	20.9	-	7000	-	-	RNP APCH
006	TF	POCKY	17 54 15.74N	099 57 21.95E	-	127°(125.58°)	0.93	7.0	L	6800	-	-	RNP APCH
007	TF	MAYOM (IF)	17 50 10.67N	100 03 20.31E	-	036°(035.54°)	0.93	9.0	L, R	5000	-	-	RNP APCH
008	TF	PRH02	17 57 31.85N	100 08 49.42E	-	006°(005.54°)	0.93	4.0	L	2900	-	-	RNP APCH
009	TF	PRHSF (FAF)	18 01 31.68N	100 09 13.76E	-	006°(005.54°)	0.93	2.2	-	2500	-	-	RNP APCH
010	TF	PRH01 (SDF)	18 03 43.53N	100 09 27.15E	-	006°(005.54°)	0.93	3.8	-	1800	-	-	RNP APCH
011	-	MAPt (THR01)	18 07 31.41N	100 09 50.31E	Y	-	0.93	-	-	900	200	-	RNP APCH
012	CA	-	-	-	-	006°(005.54°)	0.93	-	L	4000	-	-	RNP APCH
013	DF	POCKY	17 54 15.74N	099 57 21.95E	-	-	0.93	-	L	6800	-	-	RNP APCH