



STANDARD DEPARTURE CHART-INSTRUMENT

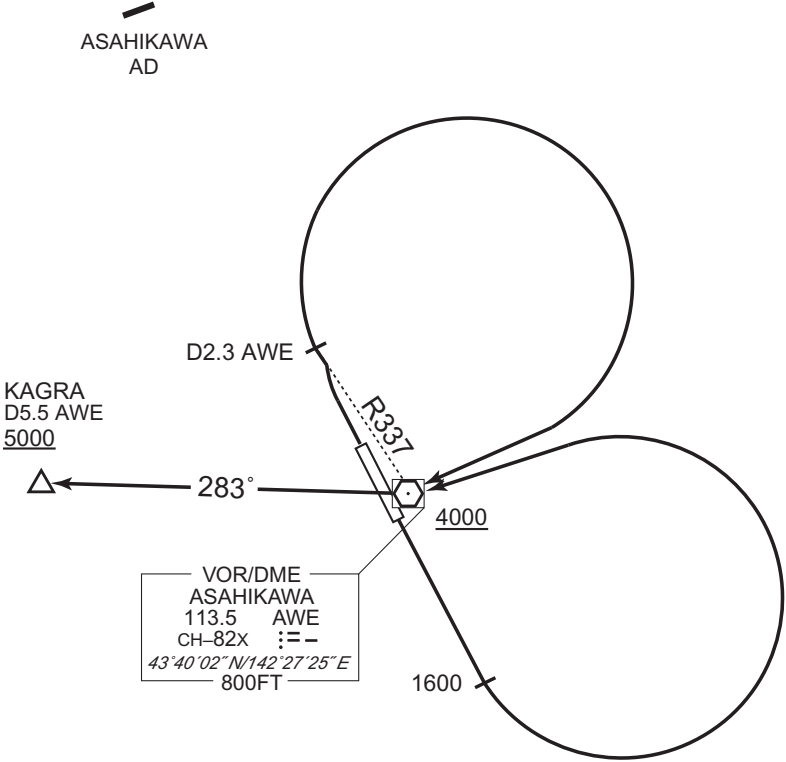
RJEC / ASAHIKAWA

SID

KAGRA FOUR DEPARTURE

RWY16 : Climb RWY HDG to 1600FT, turn left,...
RWY34 : Climb via AWE R337 to 2.3DME, turn right,...
...direct to AWE VOR/DME, via AWE R283 to KAGRA.
Cross AWE VOR/DME at or above 4000FT, cross KAGRA at or above 5000FT.

Note RWY16 : 5.3% climb gradient required up to 1600FT.
OBST ALT 1247FT located at 2.0NM 146° FM end of RWY16.
RWY34 : 5.0% climb gradient required up to 1000FT.
OBST ALT 696FT located at 1.4NM 021° FM end of RWY34.



CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART-INSTRUMENT

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SID

ASAHIKAWA REVERSAL FIVE DEPARTURE

RWY16 : Climb RWY HDG to 1600FT, turn left HDG320° to intercept and proceed ...

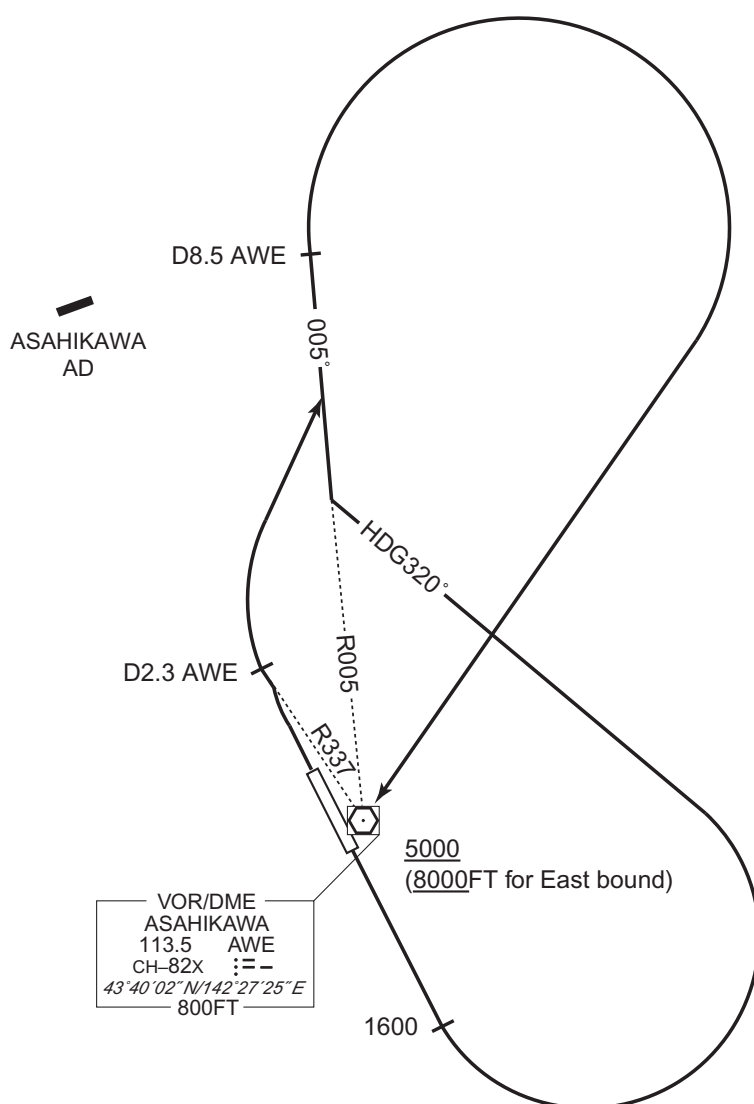
RWY34 : Climb via AWE R337 to 2.3DME, turn right,...

... via AWE R005 to 8.5DME, turn right, direct to AWE VOR/DME.

Cross AWE VOR/DME at or above 5000FT (8000FT for East bound).

Note RWY16 : 5.3% climb gradient required up to 1600FT.

OBST ALT 1247FT located at 2.0NM 146° FM end of RWY16.



CHANGE : Description of PROC name.

STANDARD ARRIVAL CHART-INSTRUMENT

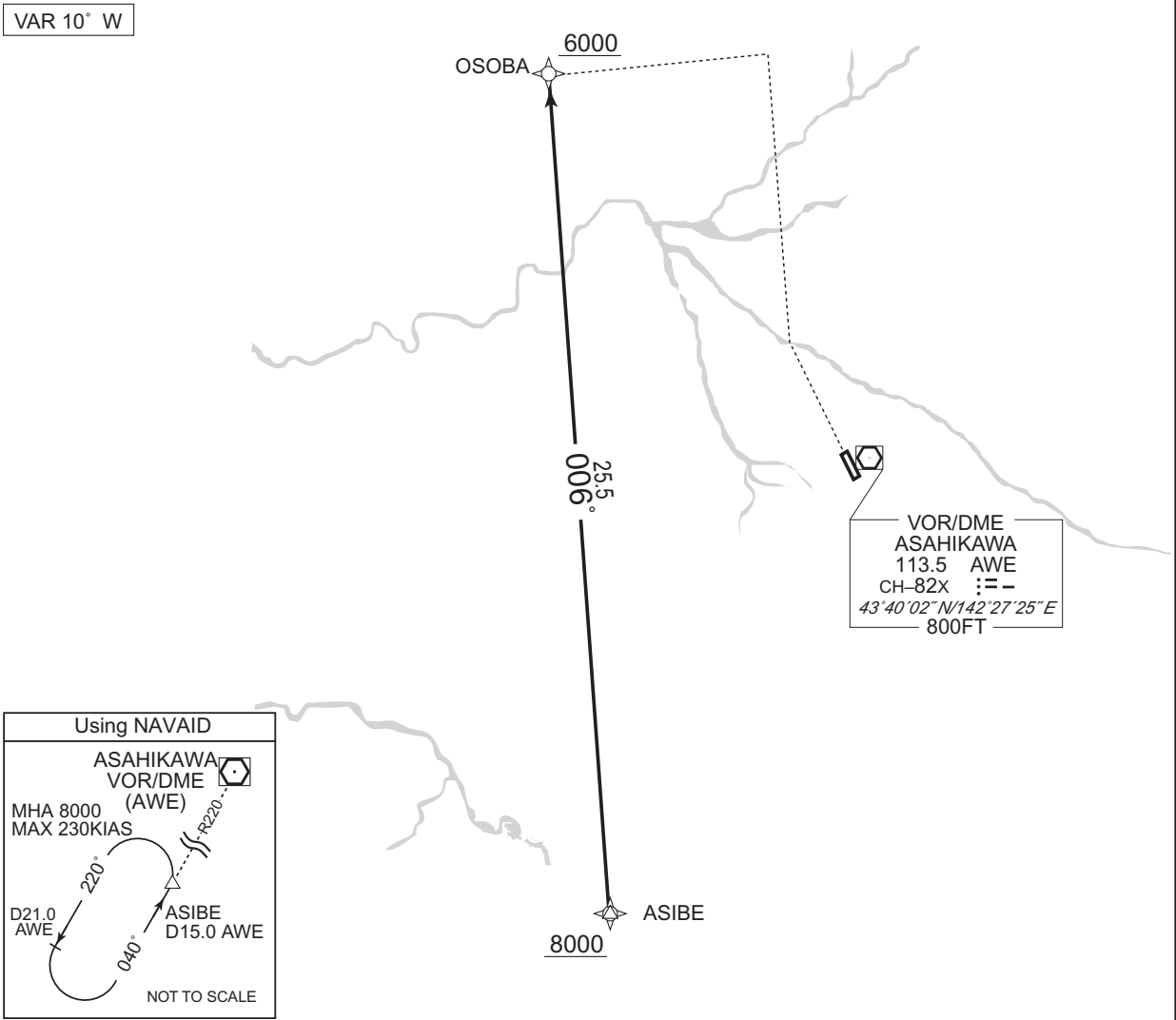
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RNAV STAR RWY16

OSOBA ARRIVAL

RNP1

Note GNSS required.



From ASIBE at or above 8000FT, to OSOBA at or above 6000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ASIBE	—	—	-9.9	—	—	+8000	—	—	RNP1
002	TF	OSOBA	—	006 (356.1)	-9.9	25.5	—	+6000	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
ASIBE	432704.0N / 1421700.9E
OSOBA	435228.9N / 1421435.5E

CHANGE : VAR. Waypoint Coordinates added.

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ILS Z or LOC Z RWY34

[illegible]

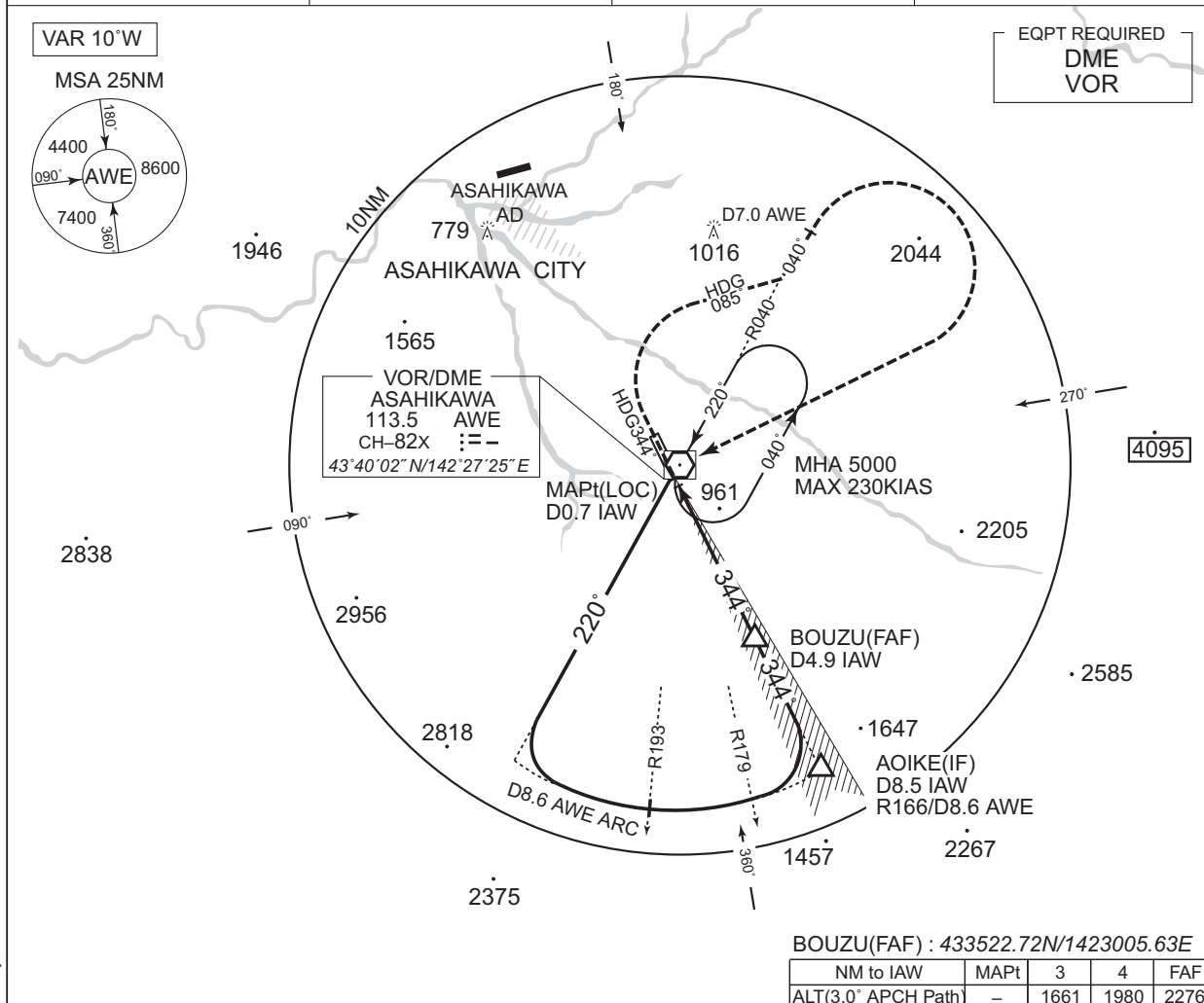
MINIMA		THR elev. 721		AD elev. 690		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	921(200)	550	1370(680)	1200	1370(680)	1600
B				1400		
C				1800	1560(870)	2400
D						

MINIMA with Missed APCH climb gradient of 2.5% are not established.

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ILS Y or LOC Y RWY34

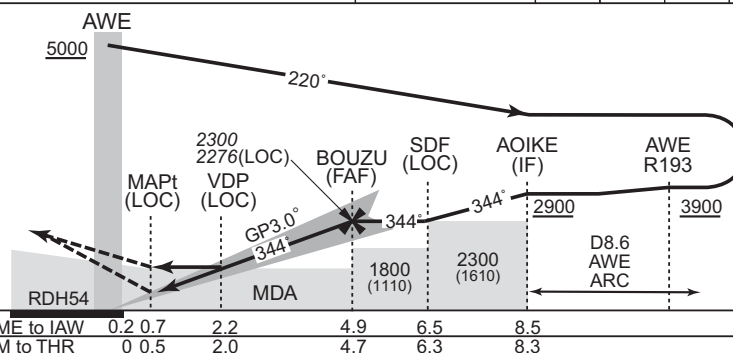
HIDAKA APP 128.325 - 246.1 - 134.55	ILS-LOC 110.5 IAW 110.5 ILS-GP 329.6 ILS-DME CH-42X	DAISETSU TOWER 118.55 - 126.2	RADAR AVBL
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MISSED APPROACH

Climb on HDG344° to 1200FT, turn right HDG085° to intercept and proceed via AWE R040 to 7.0DME, turn right, direct to AWE VOR/DME and hold at 5000FT. Contact HIDAKA APP.

No turn before IAW 0.7DME.
Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

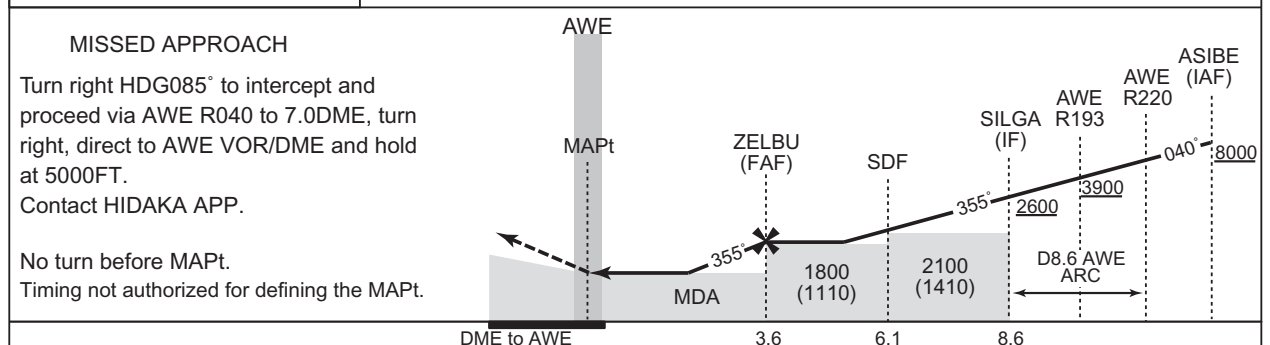
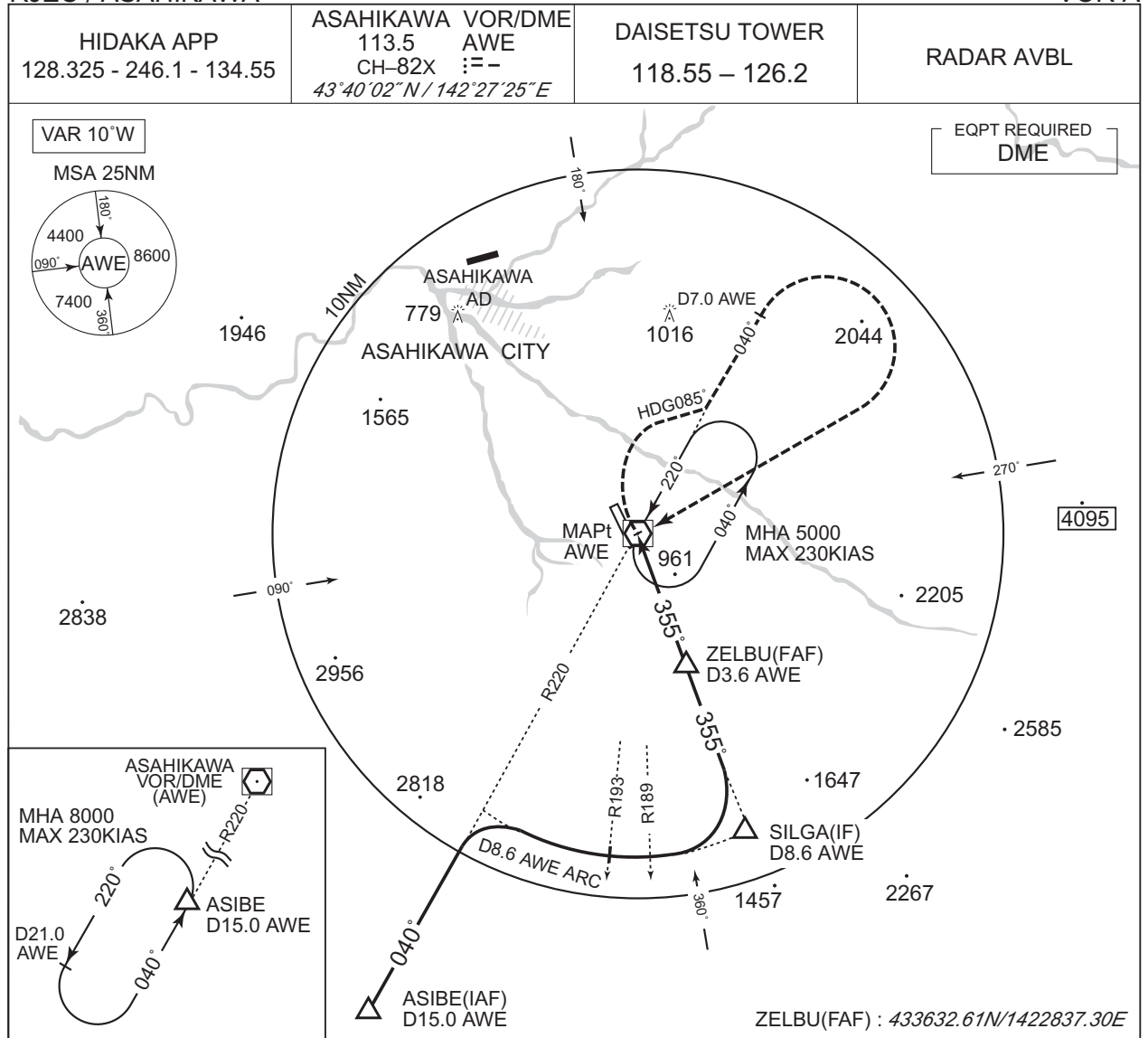
MINIMA		THR elev. 721		AD elev. 690		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	921(200)	550	1370(680)	1200	1370(680)	1600
B				1400		
C				1800	1560(870)	2400
D						3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART

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VOR A



Missed APCH climb gradient MNM 5.0%

MINIMA		AD elev. 690
CAT	CIRCLING	
	MDA(H)	VIS
A	1460(770)	1600
B		
C	1560(870)	2400
D		3200

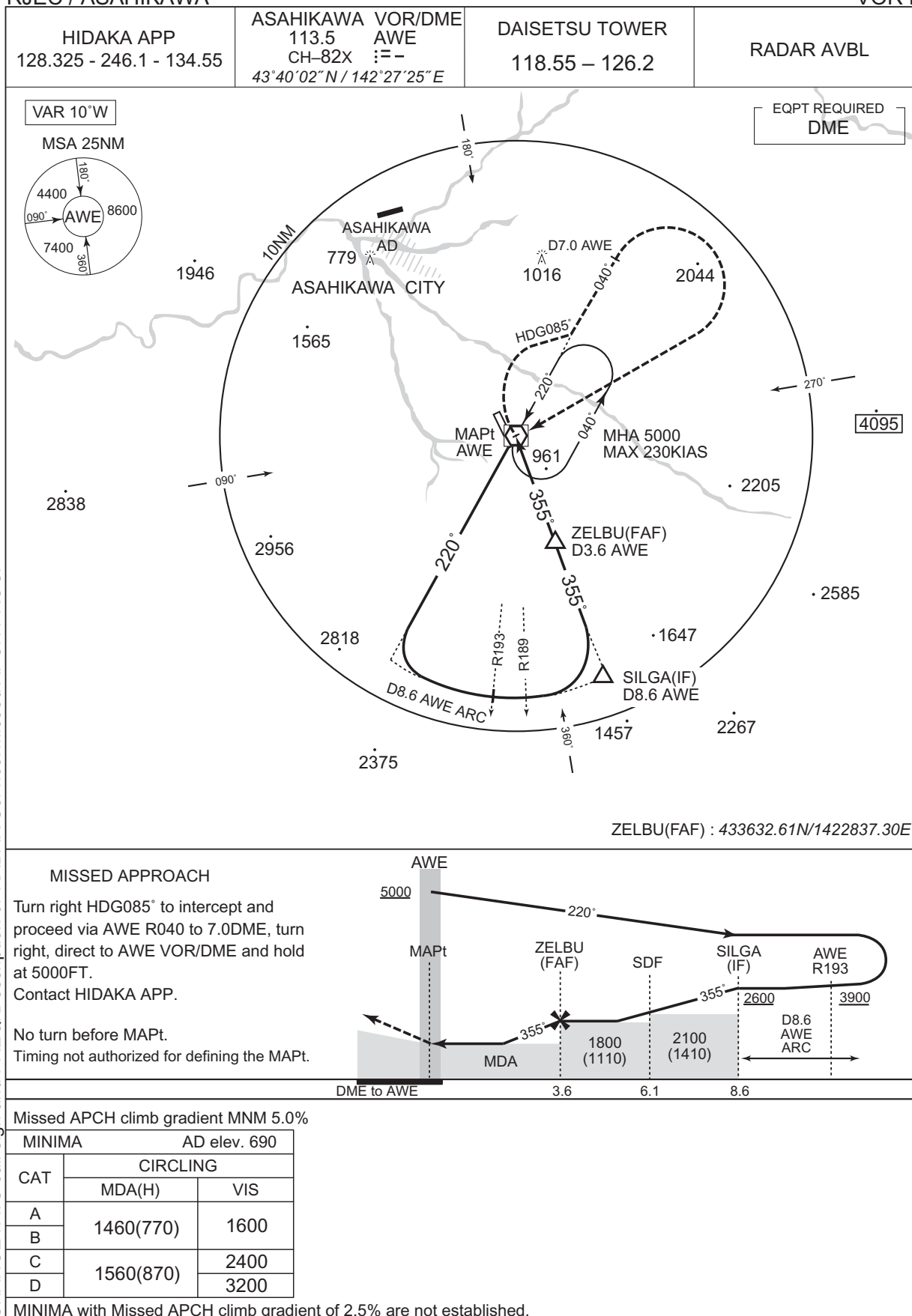
MINIMA with Missed APCH climb gradient of 2.5% are not established.

CHANGE : VAR.

INSTRUMENT APPROACH CHART

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VOR B

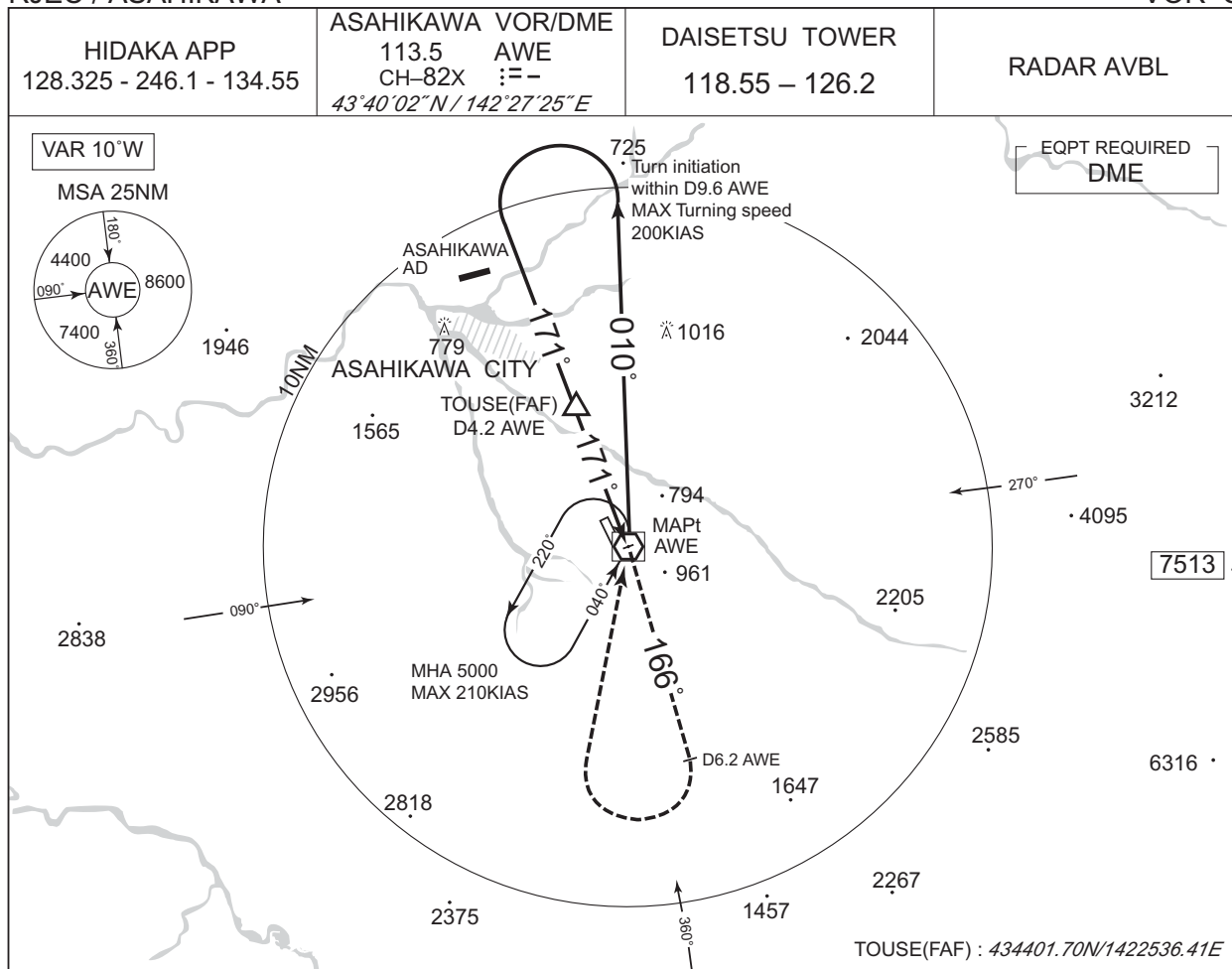


CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART

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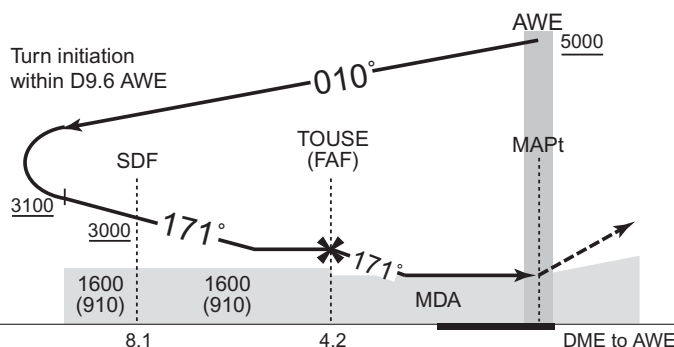
VOR C



MISSED APPROACH

Climb via AWE R166 to 6.2DME, turn right, direct to AWE VOR/DME and hold at 5000FT.
Contact HIDAKA APP.

No turn before MAPt.
Timing not authorized for defining MAPt.



MINIMA AD elev. 690

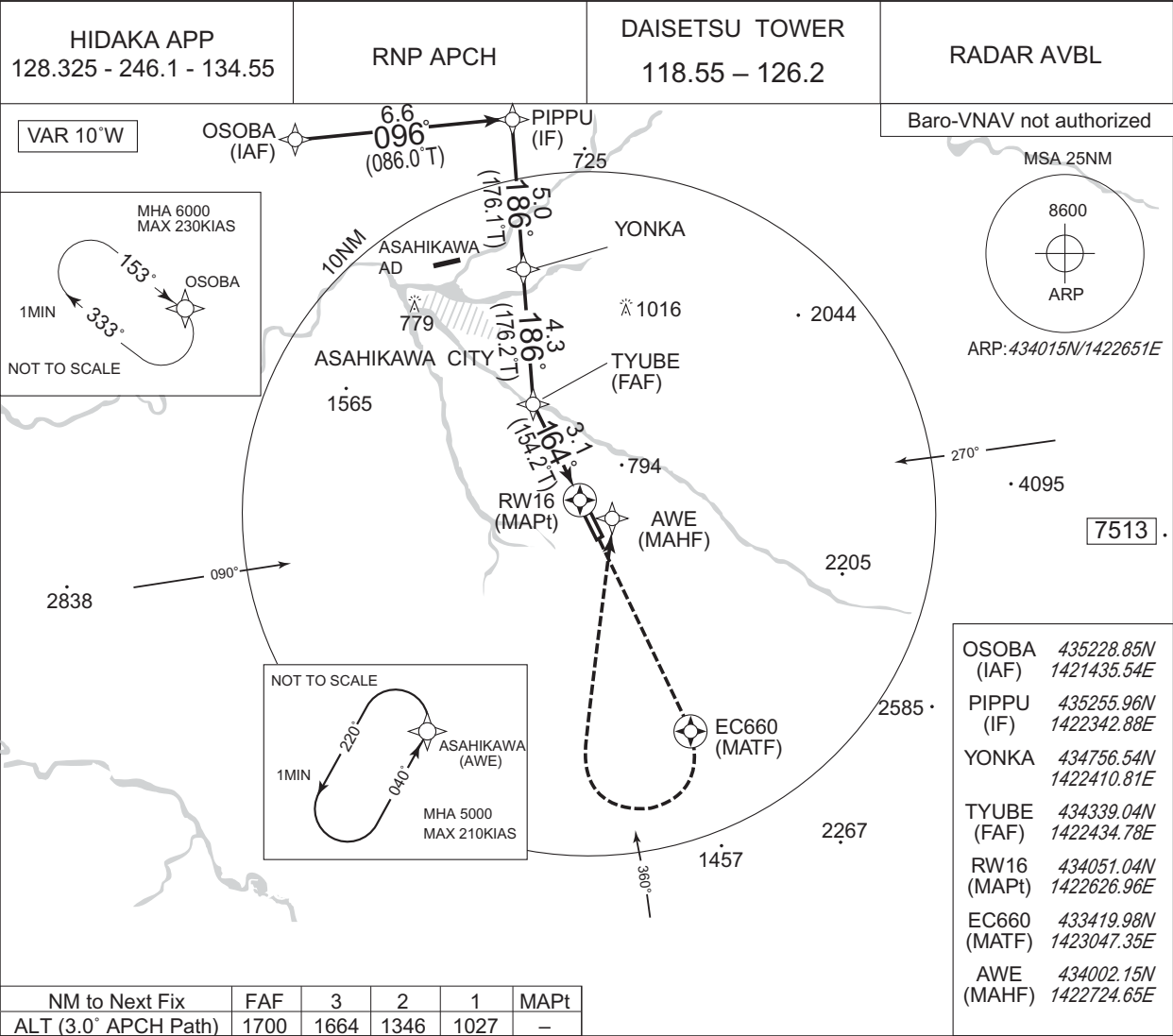
CAT	CIRCLING	
	MDA(H)	VIS
A	1330 (640)	1600
B		
C	1560 (870)	2400
D		3200

CHANGE : VAR.

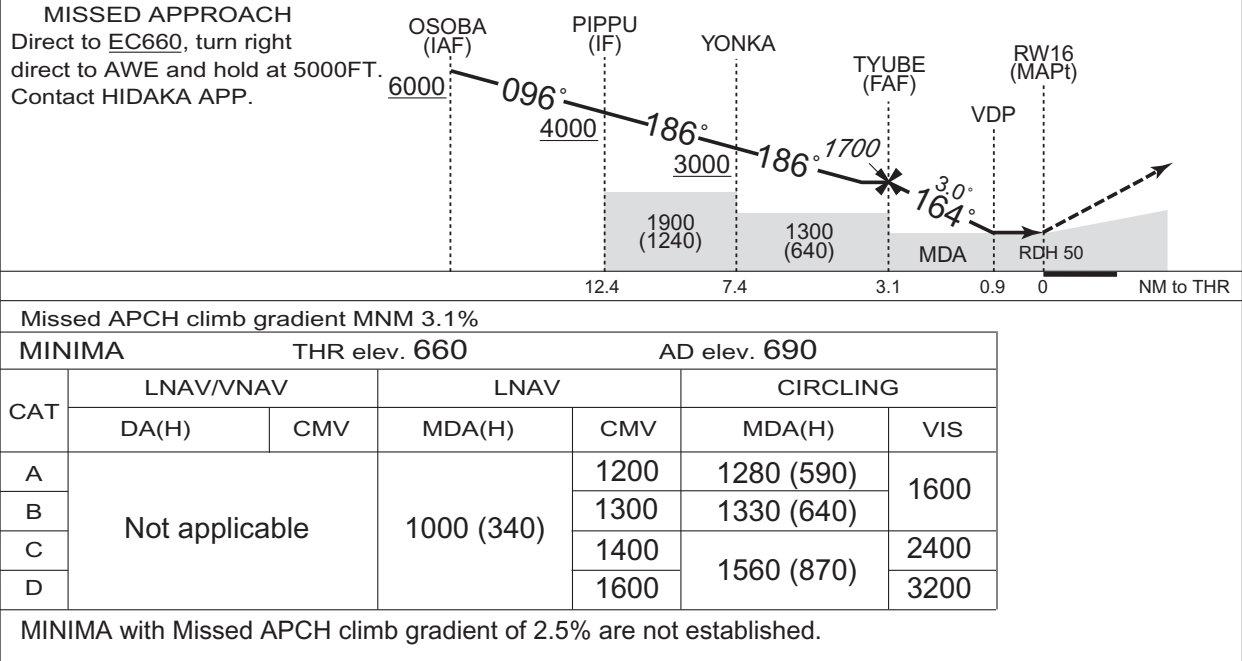
INSTRUMENT APPROACH CHART

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RNP Z RWY16

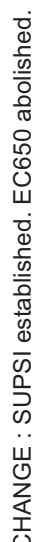


CHANGE : Description of HLDG pattern, SDF.



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RNP Y RWY16(AR)



INSTRUMENT APPROACH CHART

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RNP Y RWY16(AR)

Coding Table

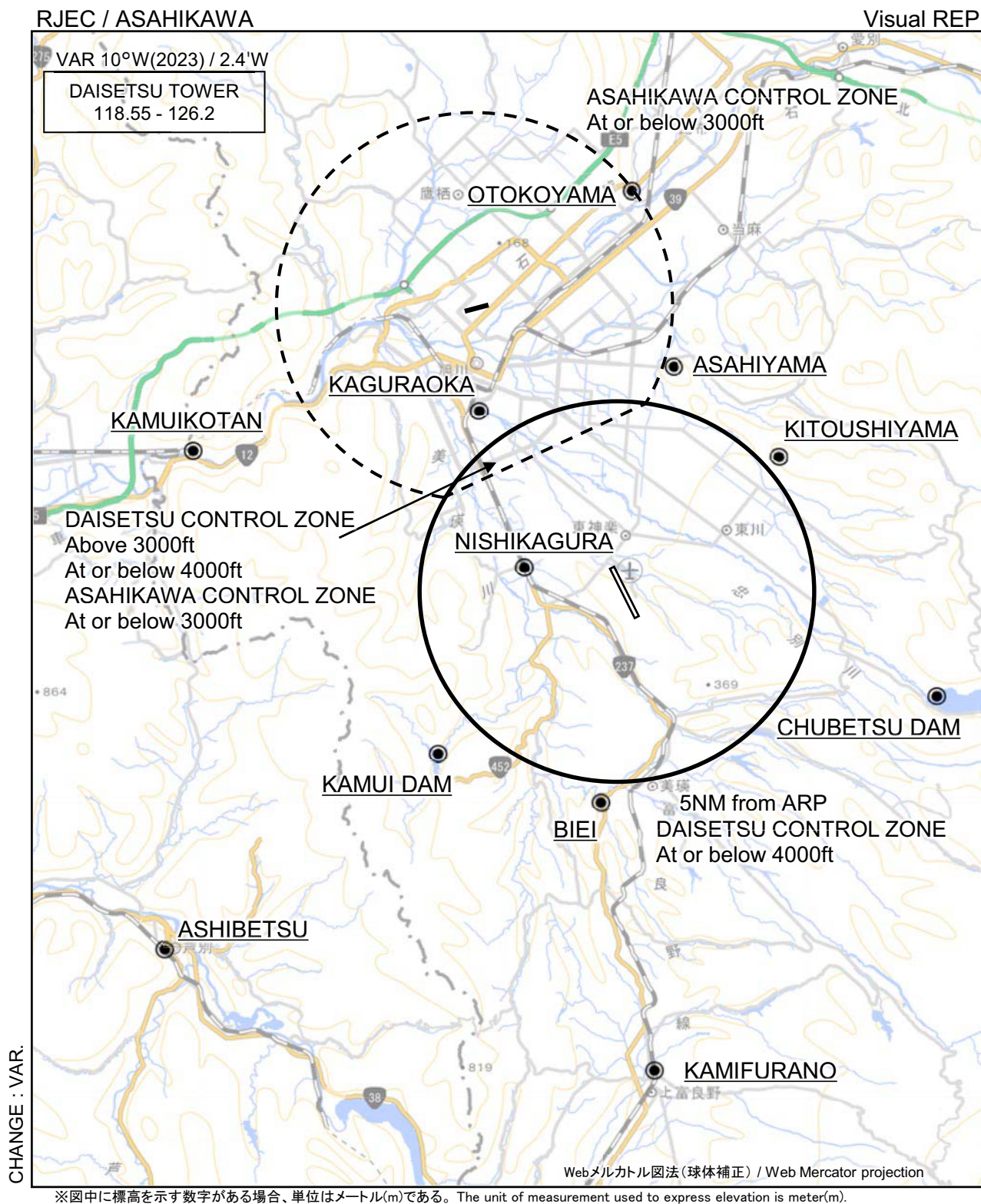
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	ASIBE	-	-	-9.9	-	-	+8000	-	-	-
002	TF	SUPSI	-	040 (030.1)	-9.9	8.0	-	+5000	-	-	1.0
003	TF	GORYO	-	353 (343.1)	-9.9	4.5	-	4000	-	-	1.0
004	TF	EC651	-	353 (343.0)	-9.9	2.4	-	3249	-	-3.00	0.30
005	RF Center: ECRF1 r=1.98NM	EC652	-	-	-9.9	2.8	R	2368	-	-3.00	0.30
006	TF	EC653	-	073 (063.0)	-9.9	0.6	-	2176	-	-3.00	0.30
007	RF Center: ECRF2 r=1.93NM	EC654	-	-	-9.9	3.1	R	1200	-	-3.00	0.30
008	TF	RW16	Y	164 (154.2)	-9.9	1.5	-	710	-	-3.00/50	0.30
009	CF	EC660	Y	164 (154.2)	-9.9	7.2	-	-	-	-	1.0
010	DF	AWE	-	-	-9.9	-	R	5000	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	AWE	040 (030.6)	-9.9	1.0 (-14000)	L	5000	FL140	-210 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ASIBE	432703.98N / 1421700.93E	ECRF1	434104.78N / 1422225.25E
SUPSI	433359.28N / 1422233.14E	ECRF2	434123.69N / 1422307.68E
GORYO	433814.72N / 1422045.68E		
EC651	434030.03N / 1421948.65E		
EC652	434250.78N / 1422111.17E		
EC653	434307.07N / 1422155.45E		
EC654	434214.29N / 1422531.40E		
RW16	434051.04N / 1422626.96E		
EC660	433419.98N / 1423047.35E		
AWE	434002.15N / 1422724.65E		

CHANGE : VAR. SUPSI established. EC650 abolished.



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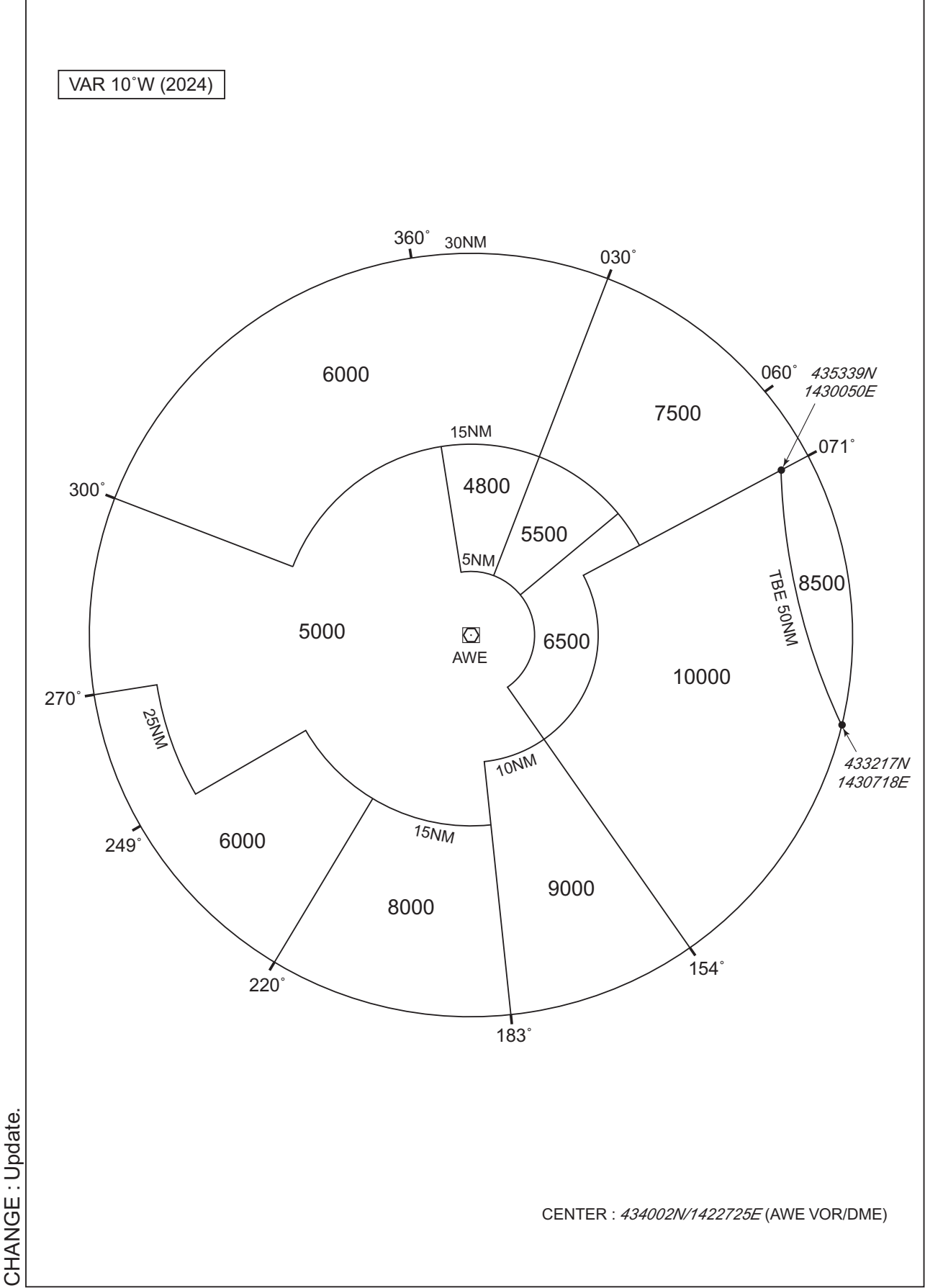
Visual REP

Call sign	BRG / DIST from ARP	Remarks
男山 Otokoyama	002°T / 10.4NM	男山自然公園 Park
旭山 Asahiyama	014°T / 6.0NM	旭山動物園 Zoo
神楽岡 Kaguraoka	324°T / 5.9NM	神楽岡公園 Park
神居古潭 Kamuikotan	289°T / 11.3NM	橋 Bridge
岐登牛山 Kitoushiyama	049°T / 5.4NM	スキー場 Ski ground
西神楽 Nishikagura	286°T / 2.4NM	JR駅 Station
忠別ダム Chubetsu dam	108°T / 8.5NM	ダム Dam
神居ダム Kamui dam	227°T / 6.2NM	ダム Dam
美瑛 Biei	184°T / 5.5NM	道路(大曲) Road
芦別 Ashibetsu	231°T / 14.7NM	JR駅 Station
上富良野 Kamifurano	176°T / 12.4NM	JR駅 Station

CHANGE : Visual REP established(Otokoyama).

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Minimum Vectoring Altitude CHART



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