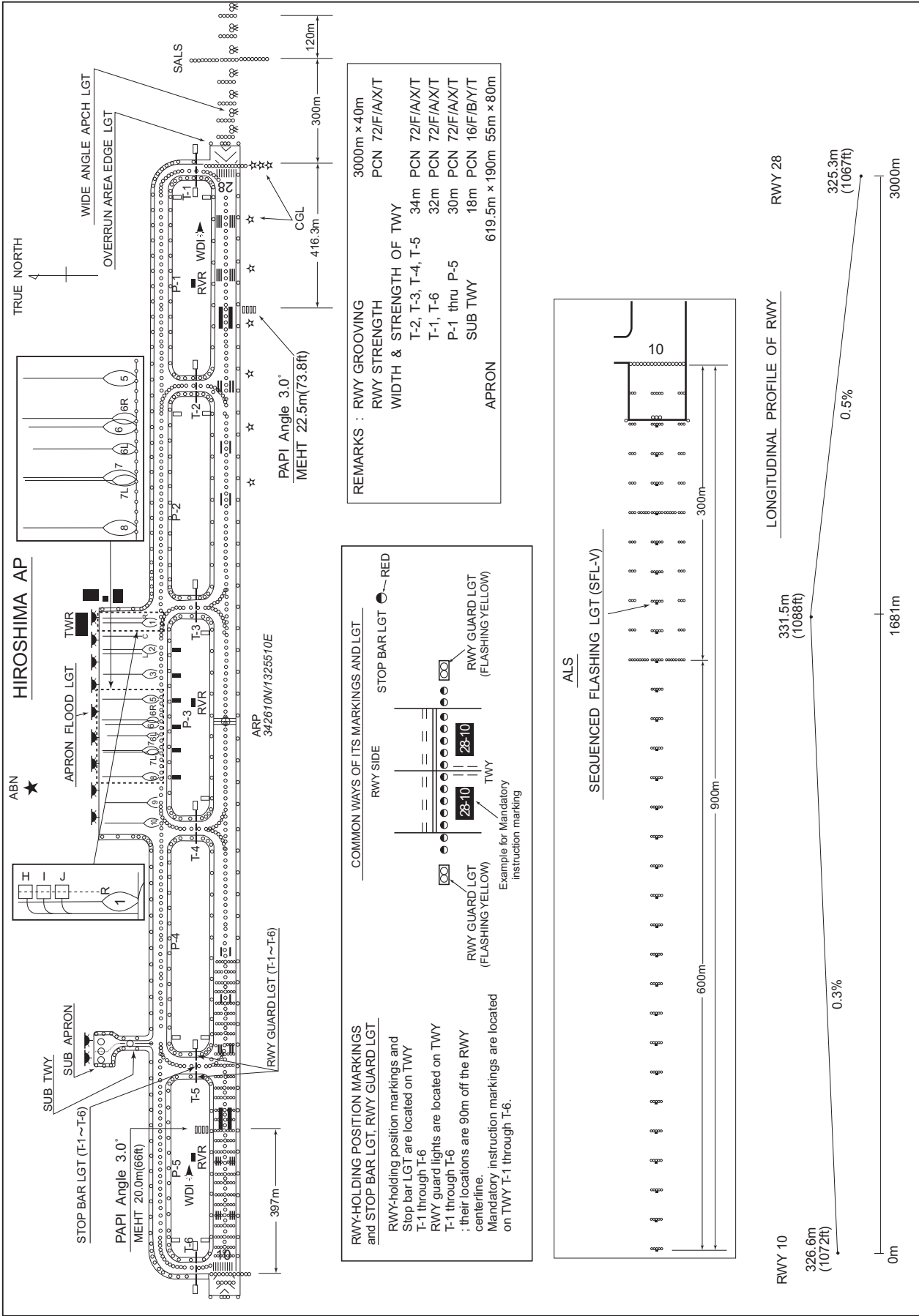


RJOA / HIROSHIMA

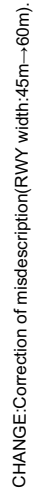
AD CHART

CHANGE : Marking added (spot H,I,J).



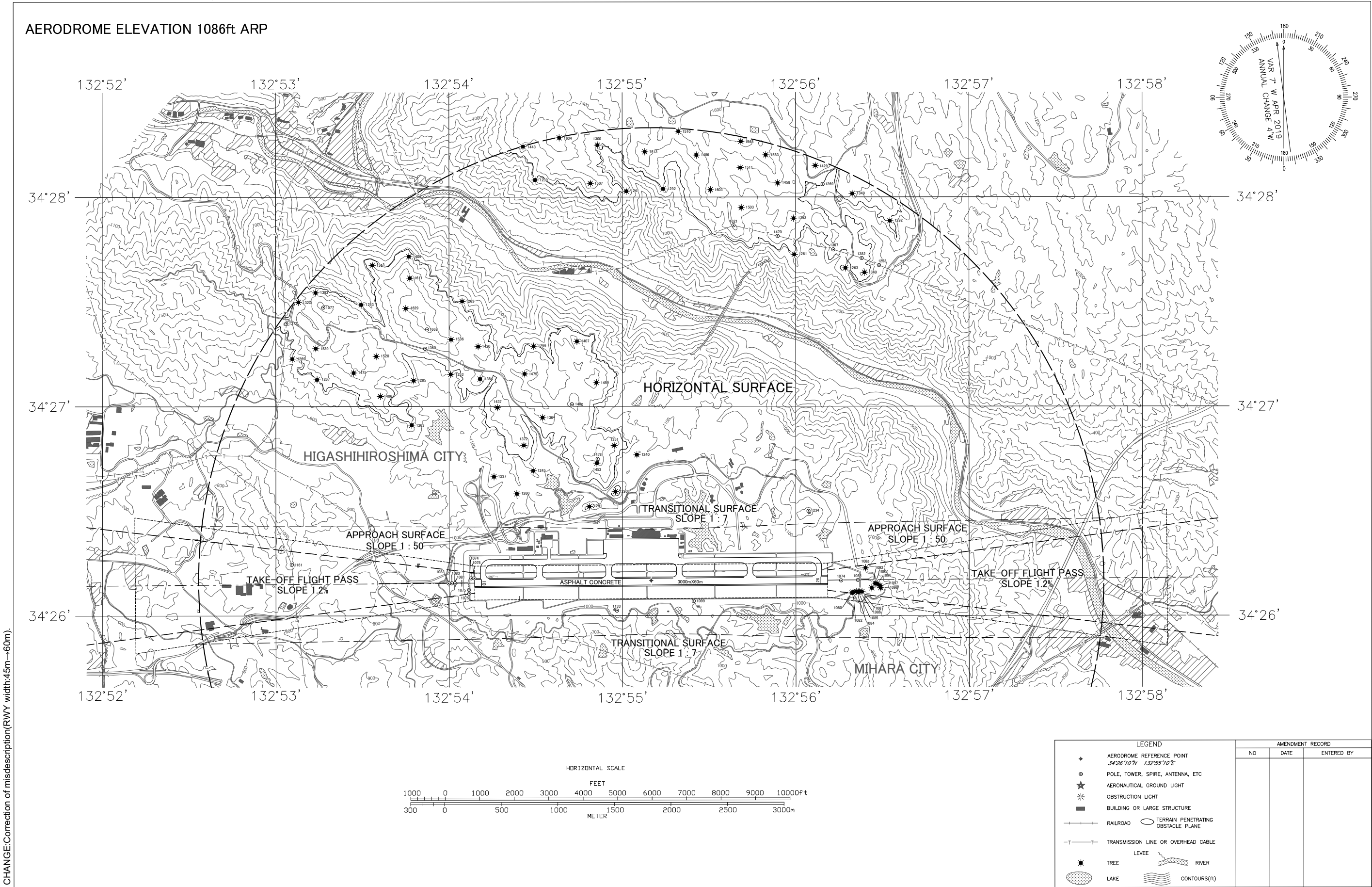
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DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC



AERODROME OBSTACLE CHART-ICAO  
TYPE B (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC



PRECISION APPROACH TERRAIN CHART-ICAO

PRECISION APPROACH TERRAIN CHART



STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

SID and TRANSITION

TOJYO THREE DEPARTURE

RWY 10 : Climb RWY HDG to HGE 2.5DME(1.9NM FM DER), turn left to intercept and proceed via HGE R040 to TOJYO...

RWY 28 : Climb on HDG 270° to HGE 5.0DME(4.0NM FM DER), turn right HDG 085° to intercept and proceed via HGE R-040 to TOJYO...  
...Cross TOJYO at or above 12000FT.

Note : RWY10 : 3.5% climb gradient required up to 1900FT.

OBST ALT 1579FT located at 023°/3.31NM FM DER.

RWY28 : 3.4% climb gradient required up to 1600FT.

OBST ALT 2484FT located at 337°/7.77NM FM DER.

MIYAZU TRANSITION

From over TOJYO, proceed via YME R256 to YME VOR/DME.

OPERA THREE DEPARTURE

RWY 10 : Climb RWY HDG to HGE 2.5DME(1.9NM FM DER), turn left HDG 313°....

RWY 28 : Climb on HDG 270° to HGE 5.0DME(4.0NM FM DER), turn right HDG 043°....  
....to intercept and proceed via HGE R358 to OPERA, via AKANA.

Cross AKANA at or above 11000FT, cross OPERA at or above FL150.

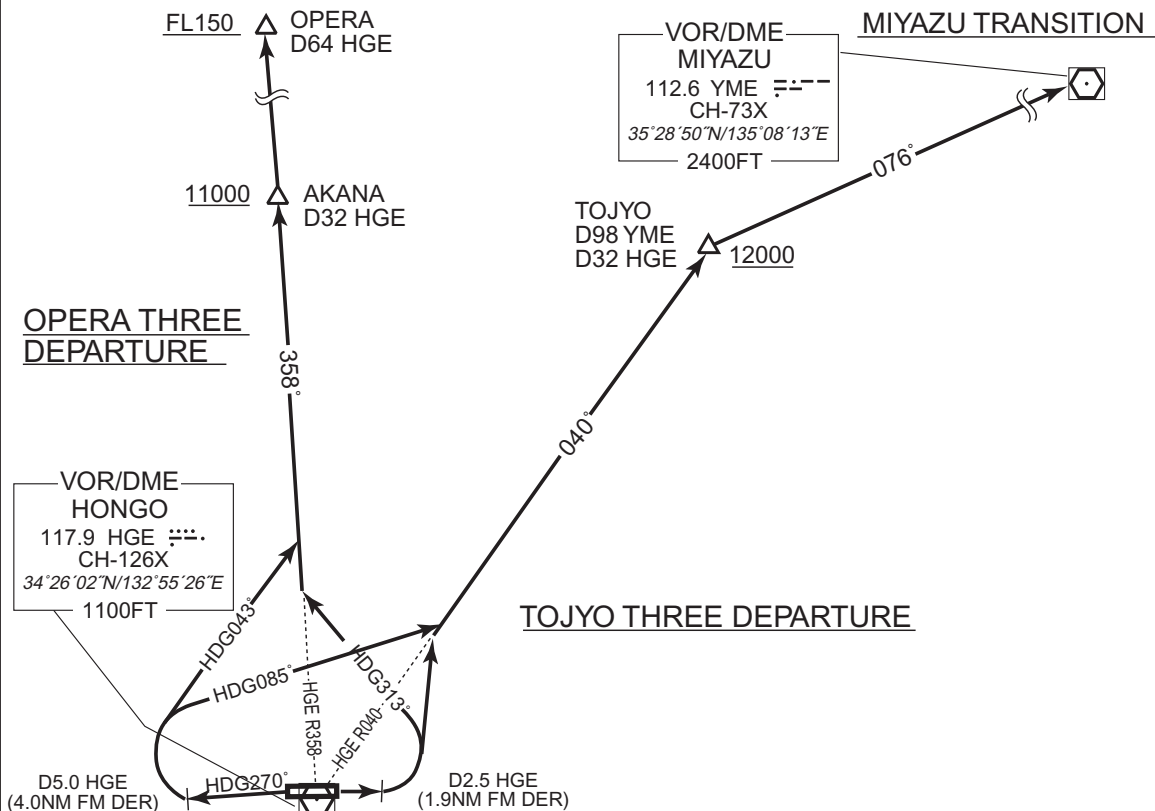
Note : RWY10 : 3.5% climb gradient required up to 1900FT.

OBST ALT 1579FT located at 023°/3.31NM FM DER.

RWY28 : 3.8% climb gradient required up to 3300FT.

OBST ALT 3025FT located at 329°/11.0NM FM DER.

CHANGE: OTSU TRANSITION abolished. OTSU VOR/DME(CUE) abolished.



## STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

SID

BINGO FOUR DEPARTURE

RWY 10 : Climb RWY HDG to HGE 2.5DME(1.9NM FM DER), turn right....

RWY 28 : Climb on HDG 270° to HGE 5.0DME(4.0NM FM DER), turn left HDG 059° ....  
....to intercept and proceed via HGE R104 to BINGO.

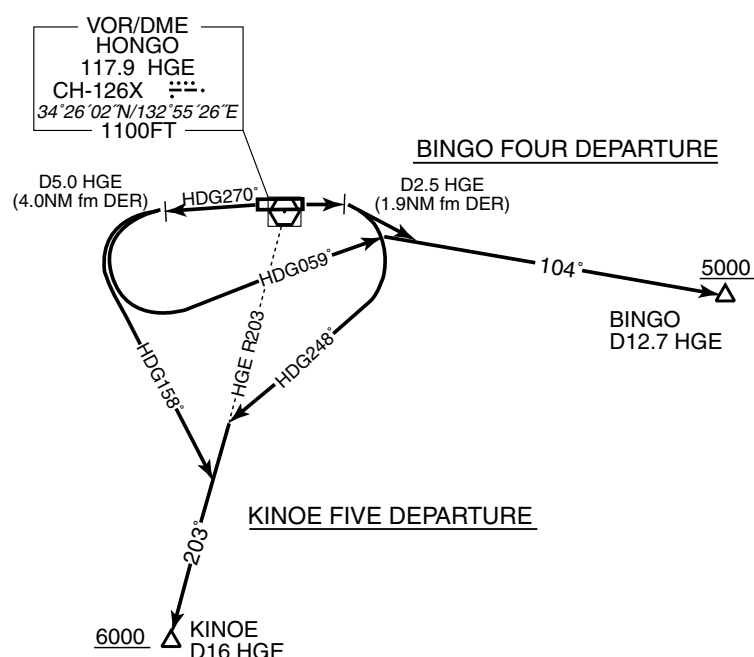
Cross BINGO at or above 5000FT.

KINOE FIVE DEPARTURE

RWY 10 : Climb RWY HDG to HGE 2.5DME(1.9NM FM DER), turn right HDG 248°....

RWY 28 : Climb on HDG 270° to HGE 5.0DME(4.0NM FM DER), turn left HDG 158° ....  
....to intercept and proceed via HGE R203 to KINOE.

Cross KINOE at or above 6000FT.



STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

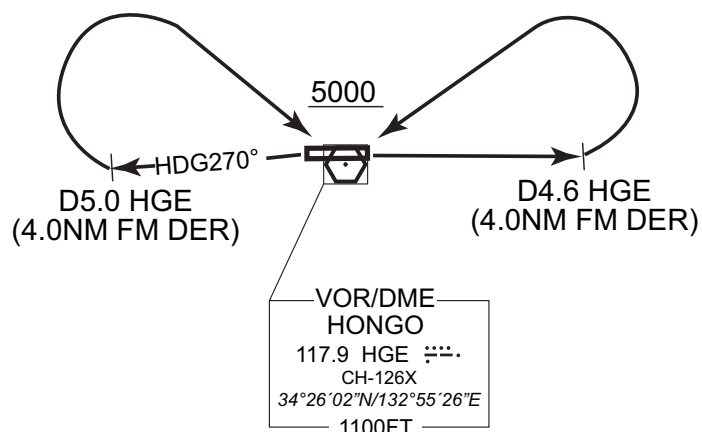
SID and TRANSITION

HONGO REVERSAL THREE DEPARTURE

RWY 10 : Climb RWY HDG to HGE 4.6DME(4.0NM FM DER), turn left....,  
RWY 28 : Climb on HDG 270° to HGE 5.0DME(4.0NM FM DER), turn right....,  
....direct to HGE VOR/DME. Cross HGE VOR/DME at or above 5000FT.

Note : RWY10 : 3.8% climb gradient required up to 2300FT.  
OBST ALT 2002FT located at 093°/5.73NM FM DER.  
RWY28 : 3.4% climb gradient required up to 1600FT.  
OBST ALT 2484FT located at 337°/7.77NM FM DER.

HONGO REVERSAL THREE DEPARTURE

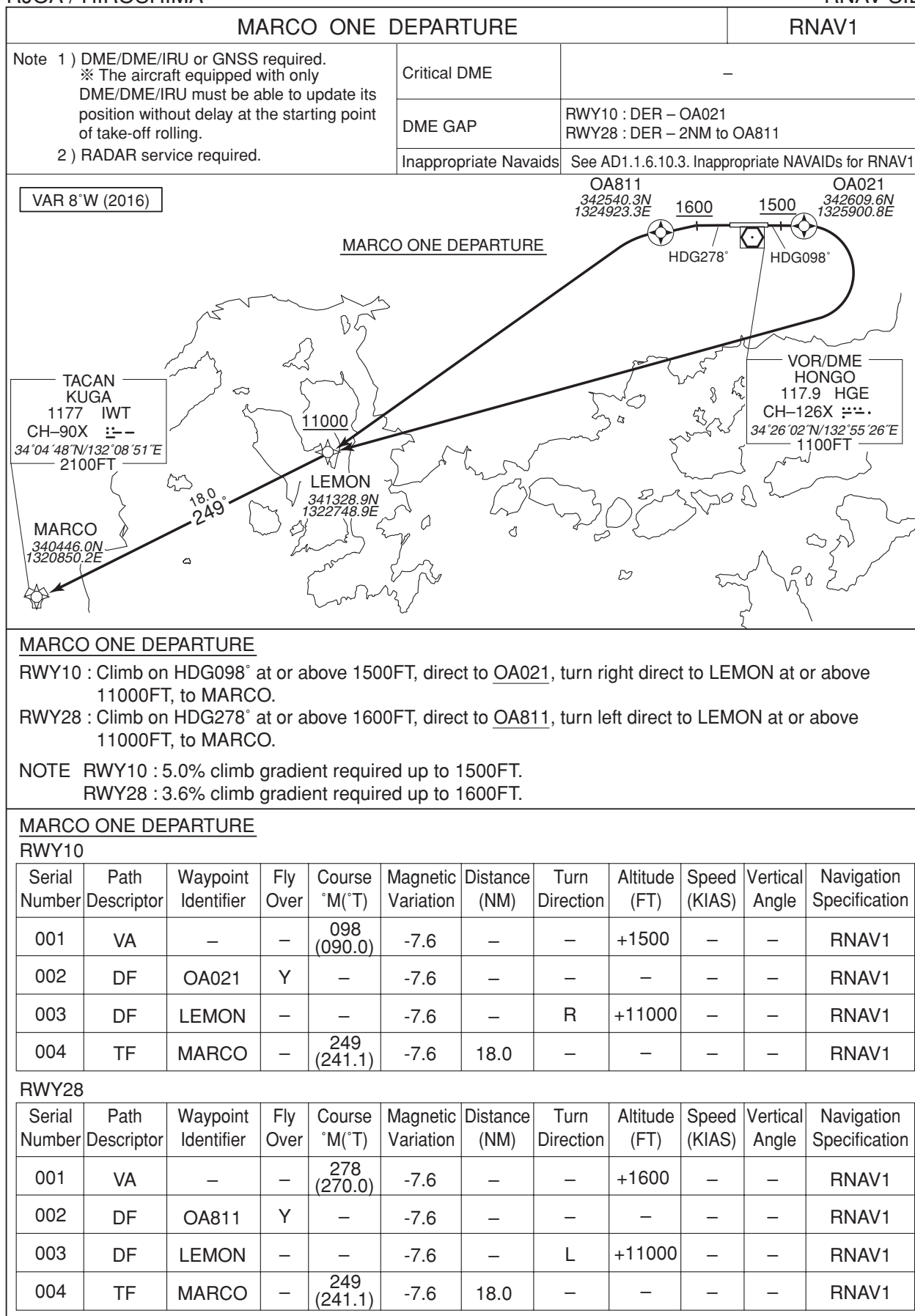




## STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

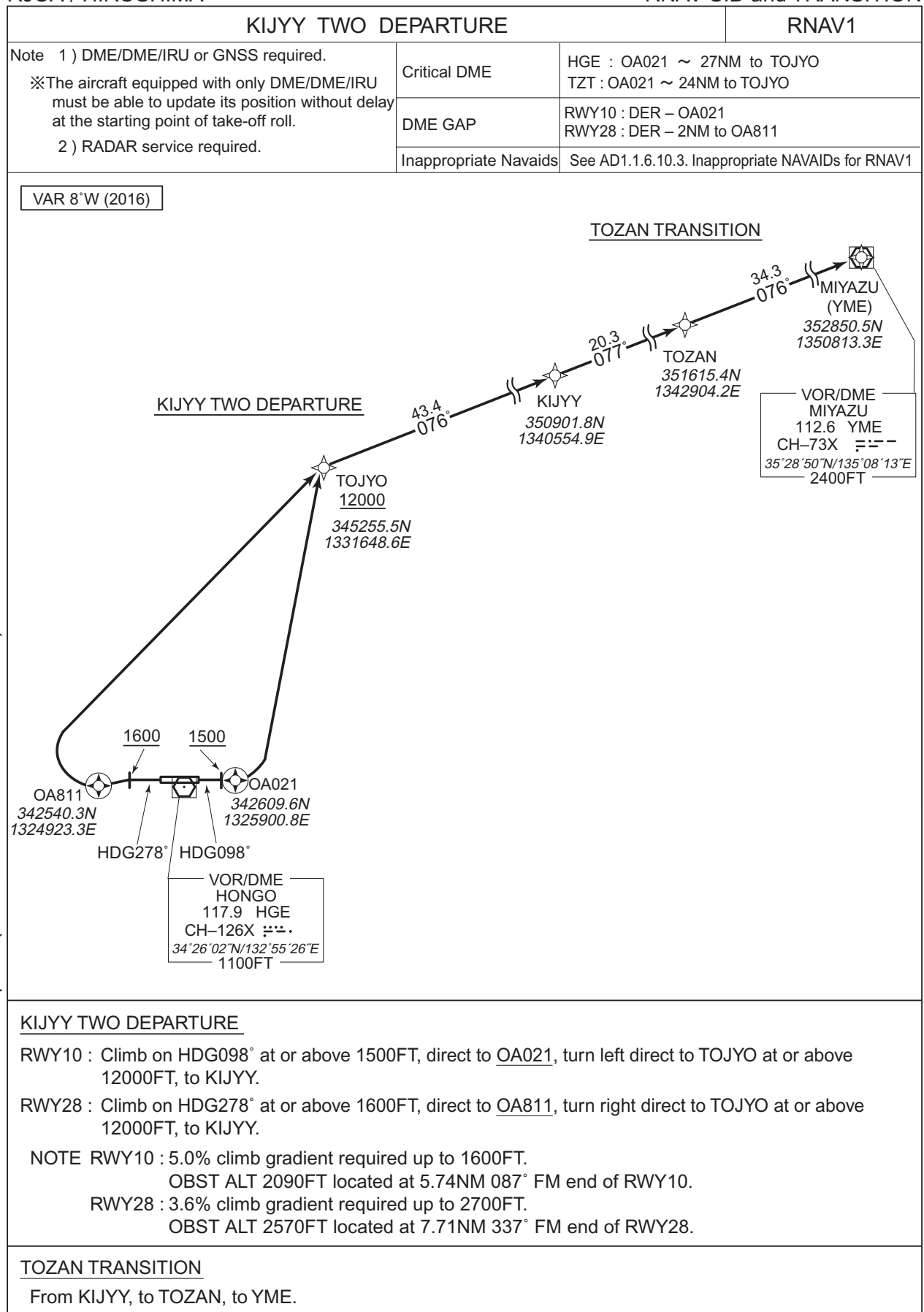
RNAV SID



## STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION



CHANGE: Correction of misdescription (Course FM TOZAN to MIYAZU).

## STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

KIJYY TWO DEPARTURE

## RWY10

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	VA	—	—	098 (090.0)	-7.6	—	—	+1500	—	—	RNAV1
002	DF	OA021	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TOJYO	—	—	-7.6	—	L	+12000	—	—	RNAV1
004	TF	KIJYY	—	076 (067.9)	-7.6	43.4	—	—	—	—	RNAV1

## RWY28

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	VA	—	—	278 (270.0)	-7.6	—	—	+1600	—	—	RNAV1
002	DF	OA811	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TOJYO	—	—	-7.6	—	R	+12000	—	—	RNAV1
004	TF	KIJYY	—	076 (067.9)	-7.6	43.4	—	—	—	—	RNAV1

TOZAN TRANSITION

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	KIJYY	—	—	-7.6	—	—	—	—	—	RNAV1
002	TF	TOZAN	—	077 (069.0)	-7.6	20.3	—	—	—	—	RNAV1
003	TF	YME	—	076 (068.3)	-7.6	34.3	—	—	—	—	RNAV1

## STANDARD DEPARTURE CHART - INSTRUMENT

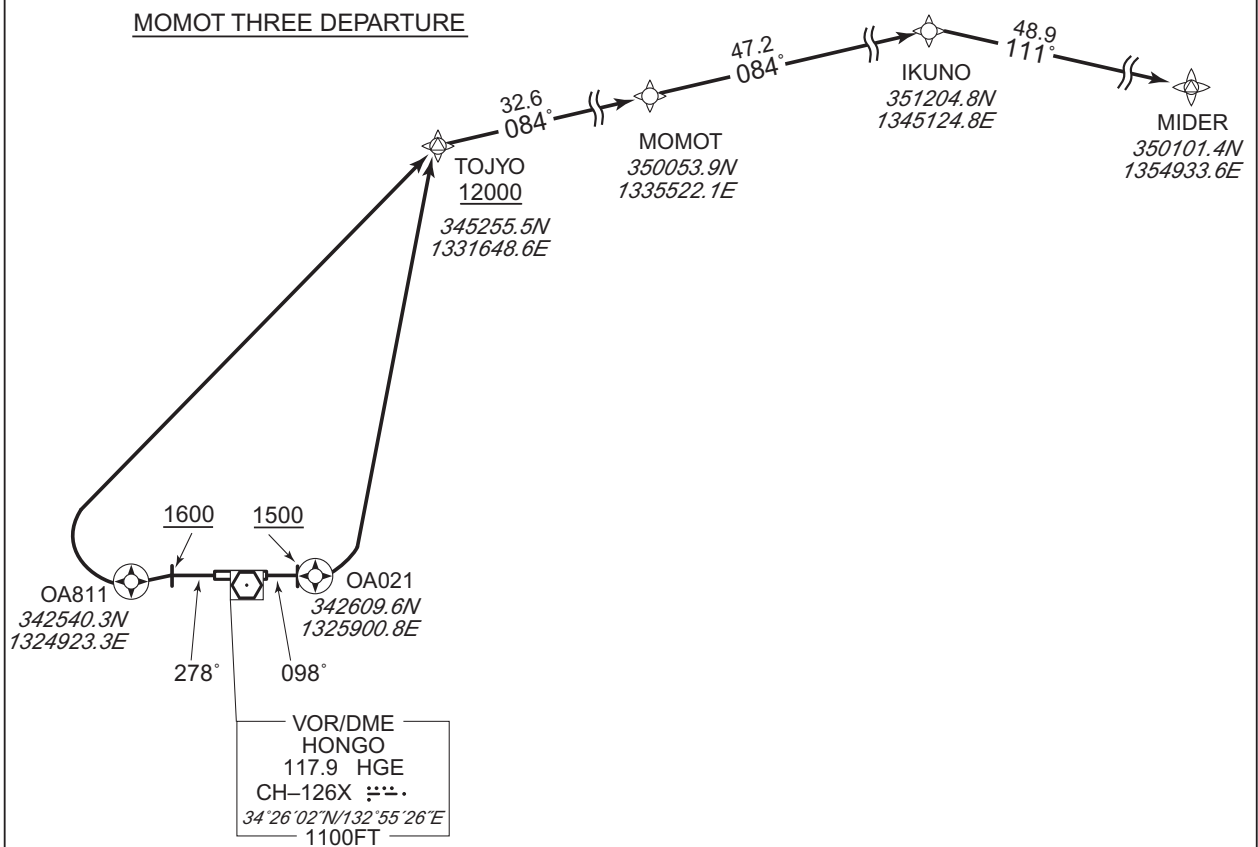
RJOA / HIROSHIMA

RNAV SID and TRANSITION

MOMOT THREE DEPARTURE		RNAV1
Note 1 ) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll. 2 ) RADAR service required.	Critical DME	HGE : OA021 ~ 27NM to TOJYO TZZ : OA021 ~ 24NM to TOJYO OKT : 25NM to IKUNO ~ 19NM to IKUNO
	DME GAP	RWY10 : DER - OA021 RWY28 : DER - 2NM to OA811
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDS for RNAV1

VAR 8°W (2020)

## IKUNO TRANSITION

MOMOT THREE DEPARTURE

RWY10 : Climb on HDG098° at or above 1500FT, direct to OA021, turn left direct to TOJYO at or above 12000FT, to MOMOT.

RWY28 : Climb on HDG278° at or above 1600FT, direct to OA811, turn right direct to TOJYO at or above 12000FT, to MOMOT.

NOTE RWY10 : 5.0% climb gradient required up to 1600FT.  
OBST ALT 2090FT located at 5.74NM 087° FM end of RWY10.  
RWY28 : 3.6% climb gradient required up to 2700FT.  
OBST ALT 2570FT located at 7.71NM 337° FM end of RWY28.

IKUNO TRANSITION

From MOMOT, to IKUNO, to MIDER.

CHANGE: VAR. PROC course. SID renamed. OTSU VOR/DME(CUE) abolished. MIDER established.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

MOMOT THREE DEPARTURE

## RWY10

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	VA	—	—	098 (090.0)	-7.9	—	—	+1500	—	—	RNAV1
002	DF	OA021	Y	—	-7.9	—	—	—	—	—	RNAV1
003	DF	TOJYO	—	—	-7.9	—	L	+12000	—	—	RNAV1
004	TF	MOMOT	—	084 (075.7)	-7.9	32.6	—	—	—	—	RNAV1

## RWY28

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	VA	—	—	278 (270.0)	-7.9	—	—	+1600	—	—	RNAV1
002	DF	OA811	Y	—	-7.9	—	—	—	—	—	RNAV1
003	DF	TOJYO	—	—	-7.9	—	R	+12000	—	—	RNAV1
004	TF	MOMOT	—	084 (075.7)	-7.9	32.6	—	—	—	—	RNAV1

IKUNO TRANSITION

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	MOMOT	—	—	-7.9	—	—	—	—	—	RNAV1
002	TF	IKUNO	—	084 (076.0)	-7.9	47.2	—	—	—	—	RNAV1
003	TF	MIDER	—	111 (102.8)	-7.9	48.9	—	—	—	—	RNAV1

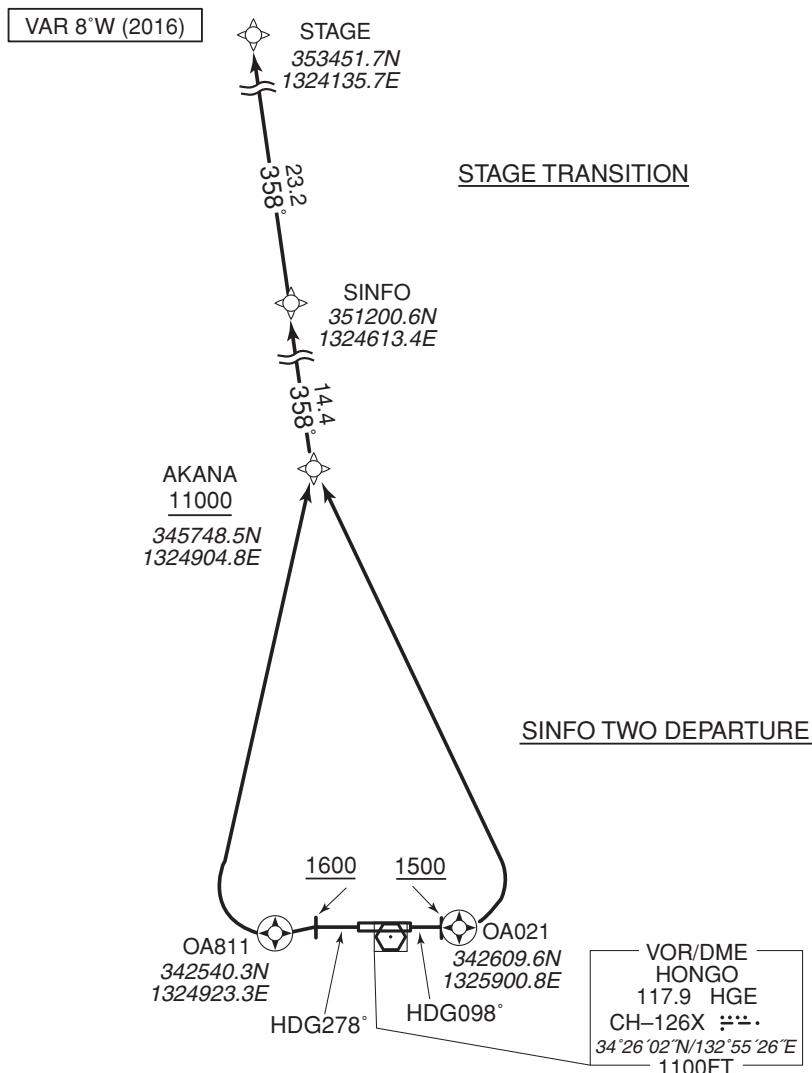
CHANGE: VAR. Course FM TOJYO to MOMOT. CUE abolished. MIDER established.

## STANDARD DEPARTURE CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

SINFO TWO DEPARTURE		RNAV1
Note 1 ) DME/DME/IRU or GNSS required. ※ The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll. 2 ) RADAR service required.	Critical DME	MYE : OA021 ~ 31NM to AKANA TRE : SINFO ~ STAGE
	DME GAP	RWY10 : DER – OA021 RWY28 : DER – 2NM to OA811
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

SINFO TWO DEPARTURE

RWY10 : Climb on HDG098° at or above 1500FT, direct to OA021, turn left direct to AKANA at or above 11000FT, to SINFO.

RWY28 : Climb on HDG278° at or above 1600FT, direct to OA811, turn right direct to AKANA at or above 11000FT, to SINFO.

NOTE RWY10 : 5.0% climb gradient required up to 1800FT.

OBST ALT 1780FT located at 2.30NM 006° FM end of RWY10.

RWY28 : 3.8% climb gradient required up to 3700FT.

OBST ALT 3150FT located at 11.02NM 322° FM end of RWY28.

STAGE TRANSITION

From SINFO, to STAGE.

## STANDARD DEPARTURE CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

SINFO TWO DEPARTURE

## RWY10

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	VA	—	—	098 (090.0)	-7.6	—	—	+1500	—	—	RNAV1
002	DF	OA021	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	AKANA	—	—	-7.6	—	L	+11000	—	—	RNAV1
004	TF	SINFO	—	358 (350.7)	-7.6	14.4	—	—	—	—	RNAV1

## RWY28

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	VA	—	—	278 (270.0)	-7.6	—	—	+1600	—	—	RNAV1
002	DF	OA811	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	AKANA	—	—	-7.6	—	R	+11000	—	—	RNAV1
004	TF	SINFO	—	358 (350.7)	-7.6	14.4	—	—	—	—	RNAV1

STAGE TRANSITION

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	SINFO	—	—	-7.6	—	—	—	—	—	RNAV1
002	TF	STAGE	—	358 (350.6)	-7.6	23.2	—	—	—	—	RNAV1

STANDARD ARRIVAL CHART -INSTRUMENT

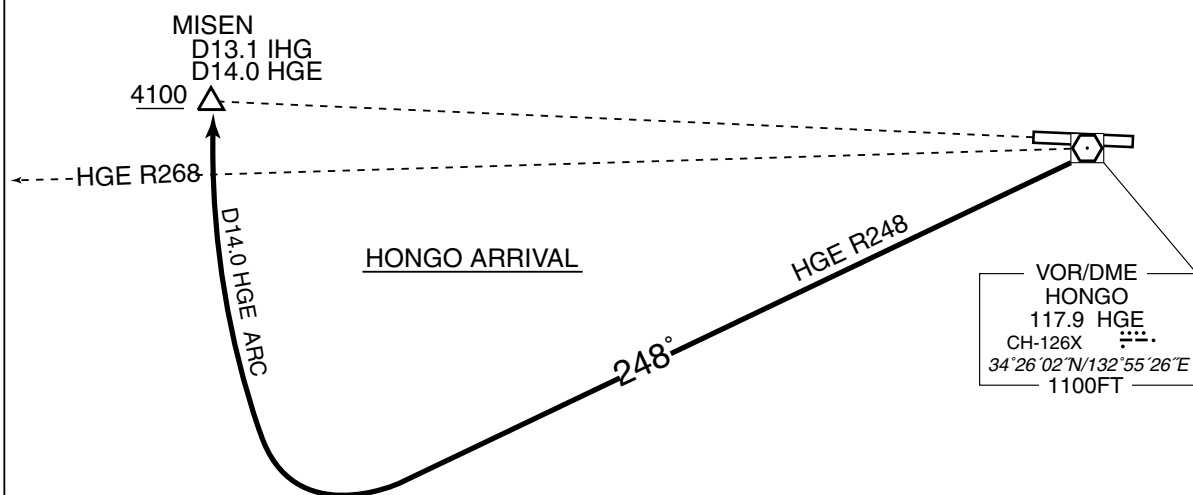
RJOA / HIROSHIMA

STAR

HONGO ARRIVAL

From over HGE VOR/DME, via HGE R248 to intercept and proceed  
via HGE 14.0DME clockwise ARC to MISEN.

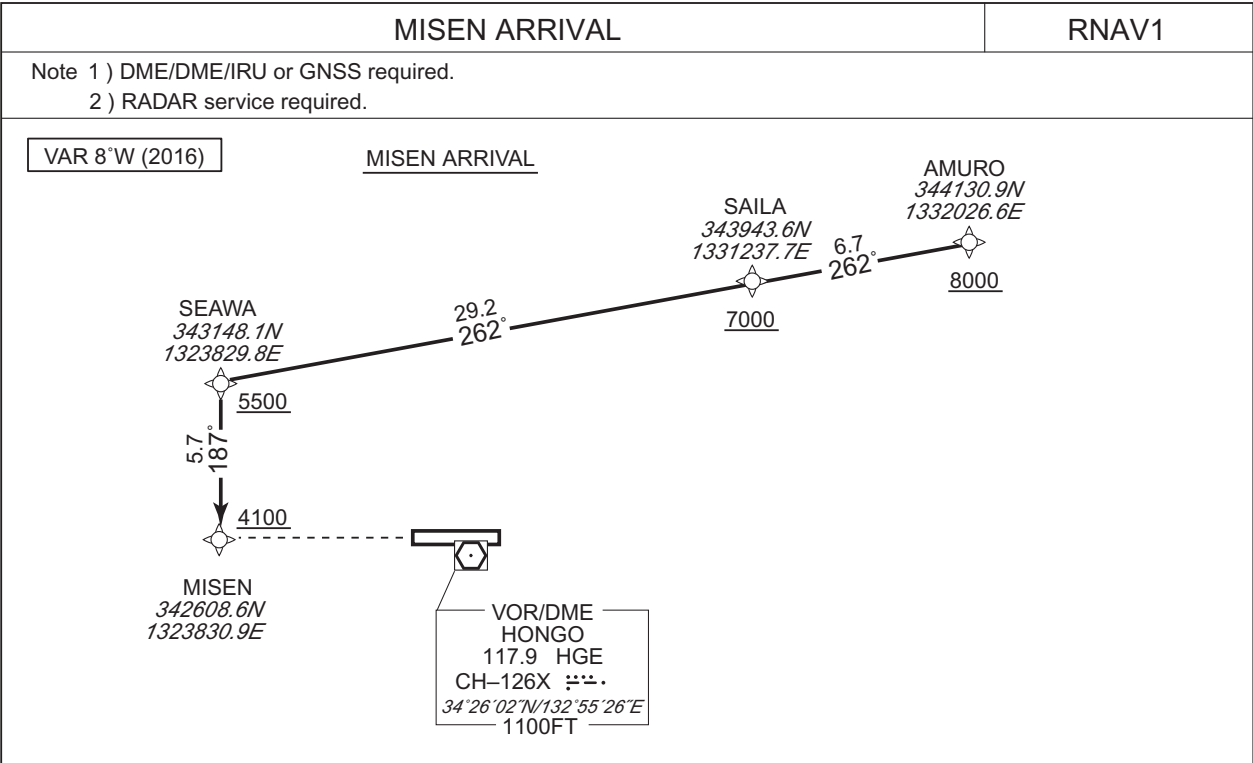
Cross MISEN at or above 4100FT.





STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA RNAV STAR RWY10



MISEN ARRIVAL

From AMURO at or above 8000FT, to SAILA at or above 7000FT, to SEAWA at or above 5500FT, to MISEN at or above 4100FT.

Critical DME	—
DME GAP	—
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

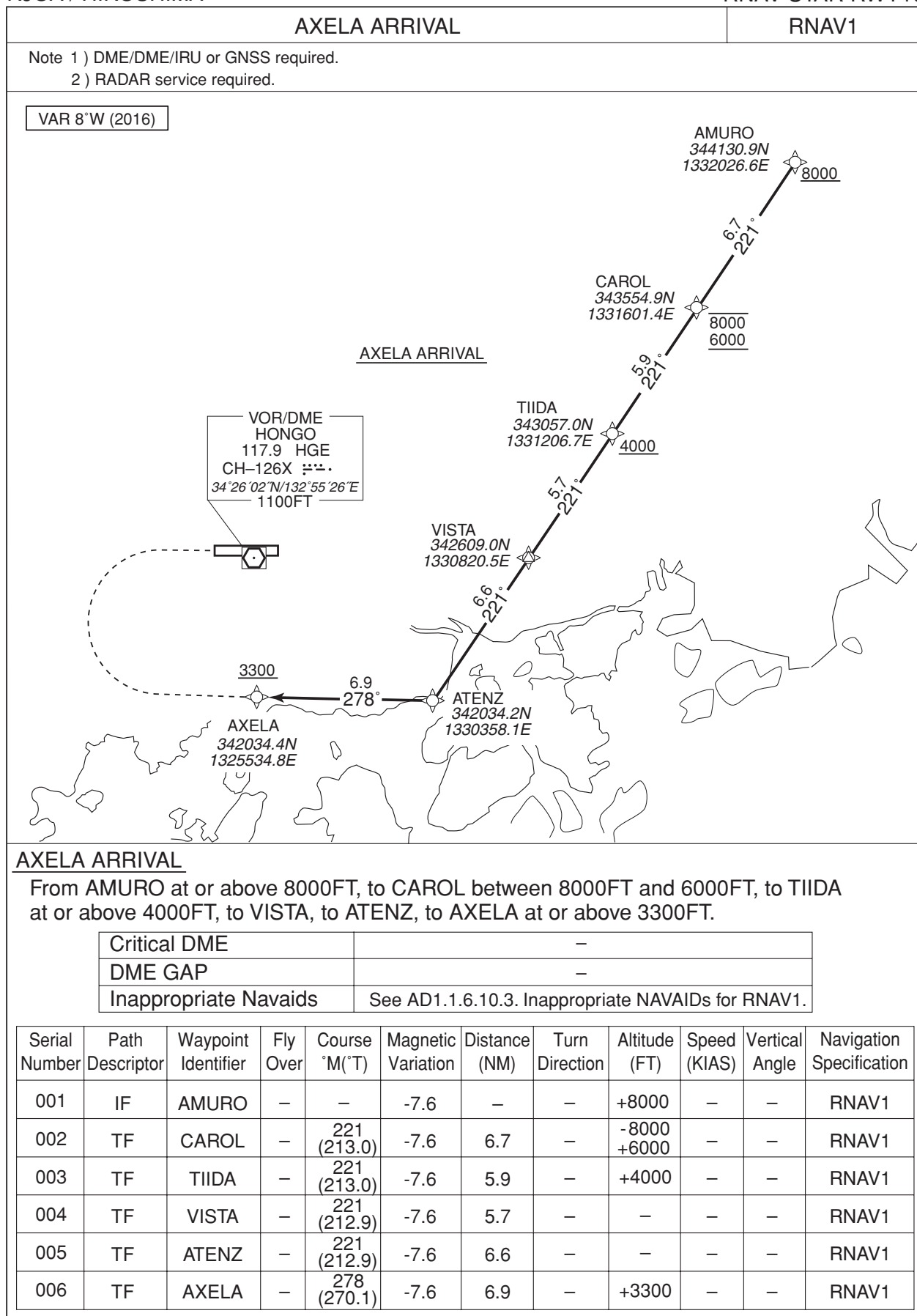
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AMURO	—	—	-7.6	—	—	+8000	—	—	RNAV1
002	TF	SAILA	—	262 (254.5)	-7.6	6.7	—	+7000	—	—	RNAV1
003	TF	SEAWA	—	262 (254.4)	-7.6	29.2	—	+5500	—	—	RNAV1
004	TF	MISEN	—	187 (179.8)	-7.6	5.7	—	+4100	—	—	RNAV1

CHANGE : Critical DME deleted.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMA

RNAV STAR RWY10



## STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMA

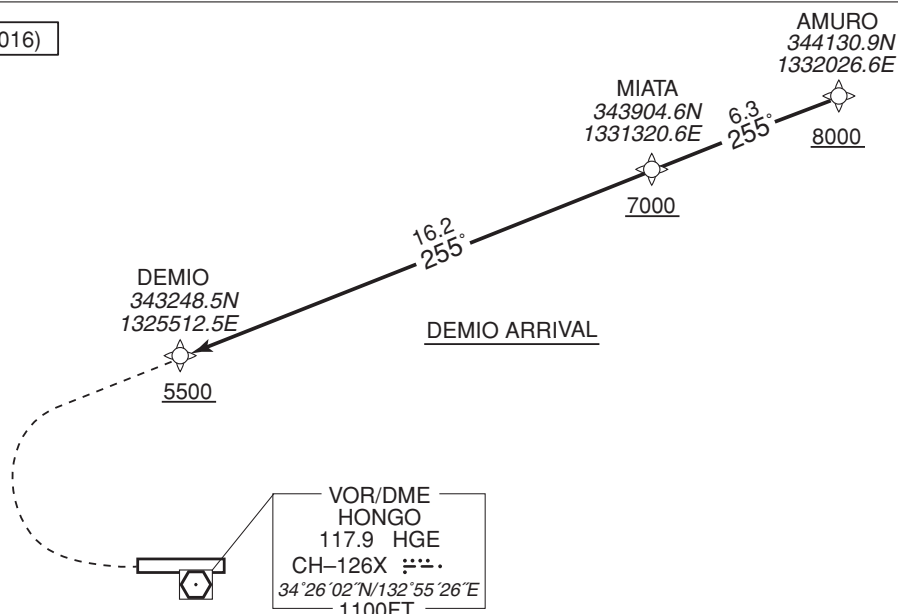
RNAV STAR RWY10

## DEMIO ARRIVAL

RNAV1

Note 1 ) DME/DME/IRU or GNSS required.  
2 ) RADAR service required.

VAR 8°W (2016)



## DEMIO ARRIVAL

From AMURO at or above 8000FT, to MIATA at or above 7000FT, to DEMIO at or above 5500FT.

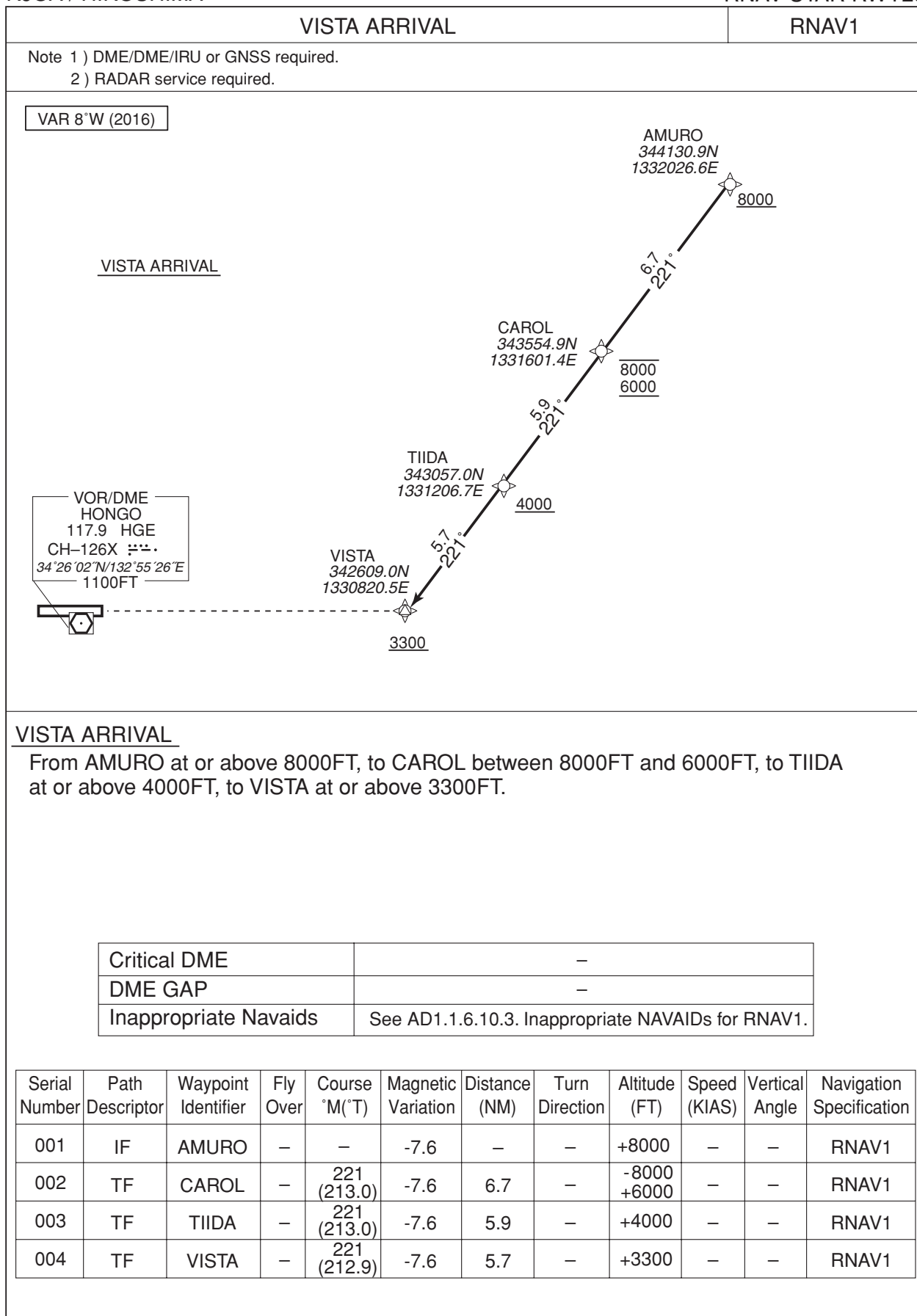
Critical DME	—
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

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	AMURO	—	—	-7.6	—	—	+8000	—	—	RNAV1
002	TF	MIATA	—	255 (247.4)	-7.6	6.3	—	+7000	—	—	RNAV1
003	TF	DEMIO	—	255 (247.3)	-7.6	16.2	—	+5500	—	—	RNAV1

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA

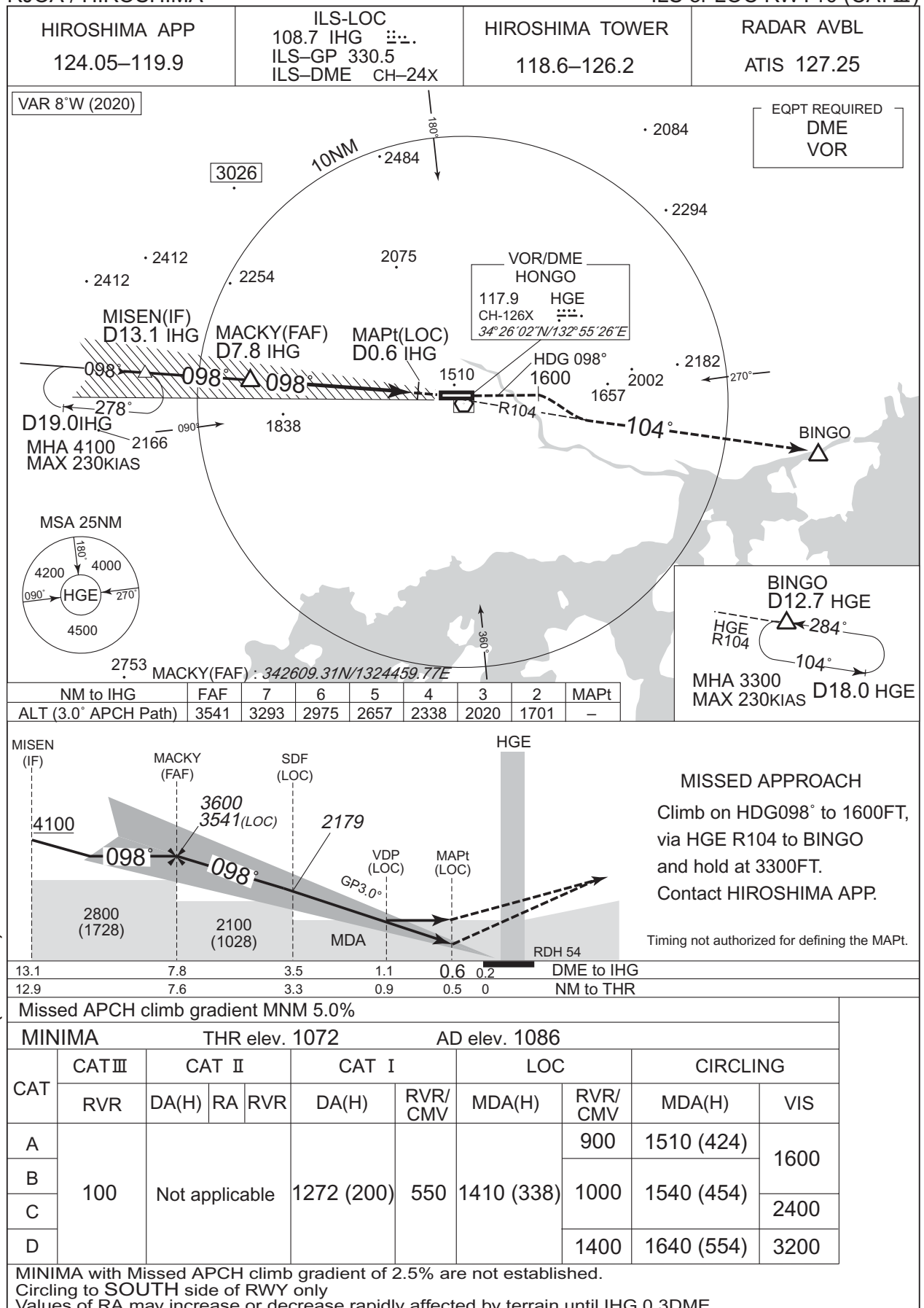
RNAV STAR RWY28



INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

ILS or LOC RWY10 (CAT III)

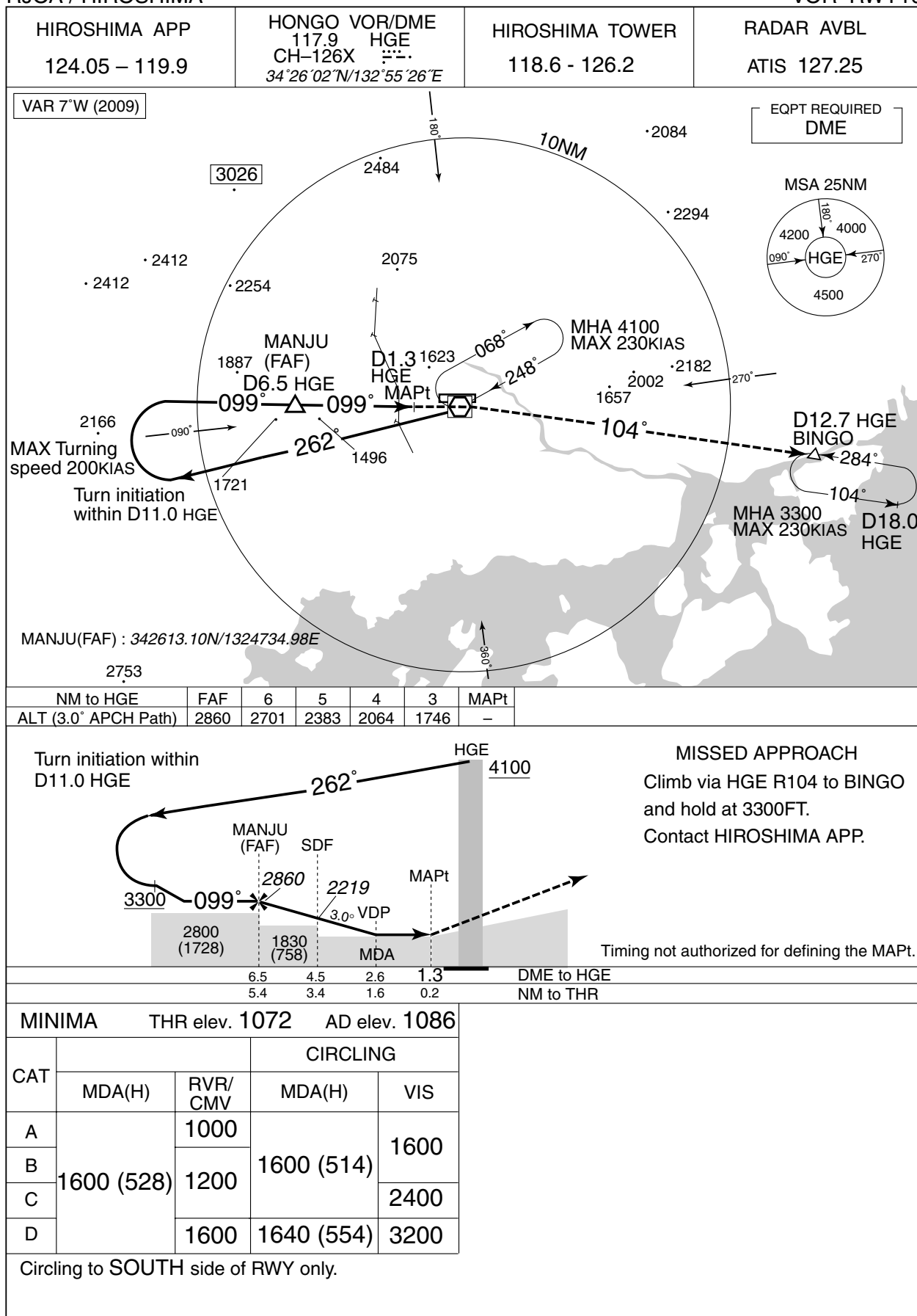


CHANGE: VAR. NM to THR(MISEN).

## INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

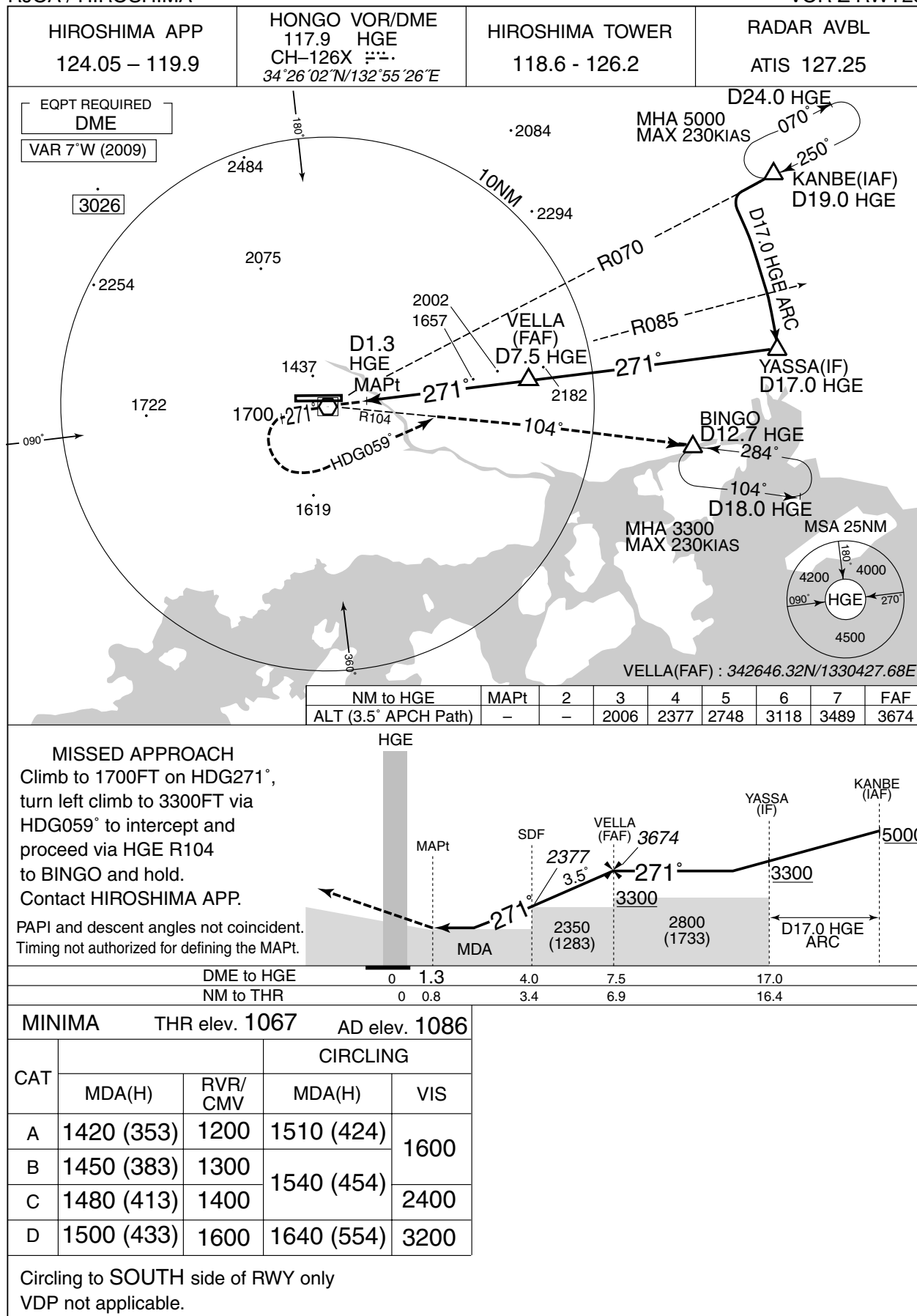
VOR RWY10



## INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

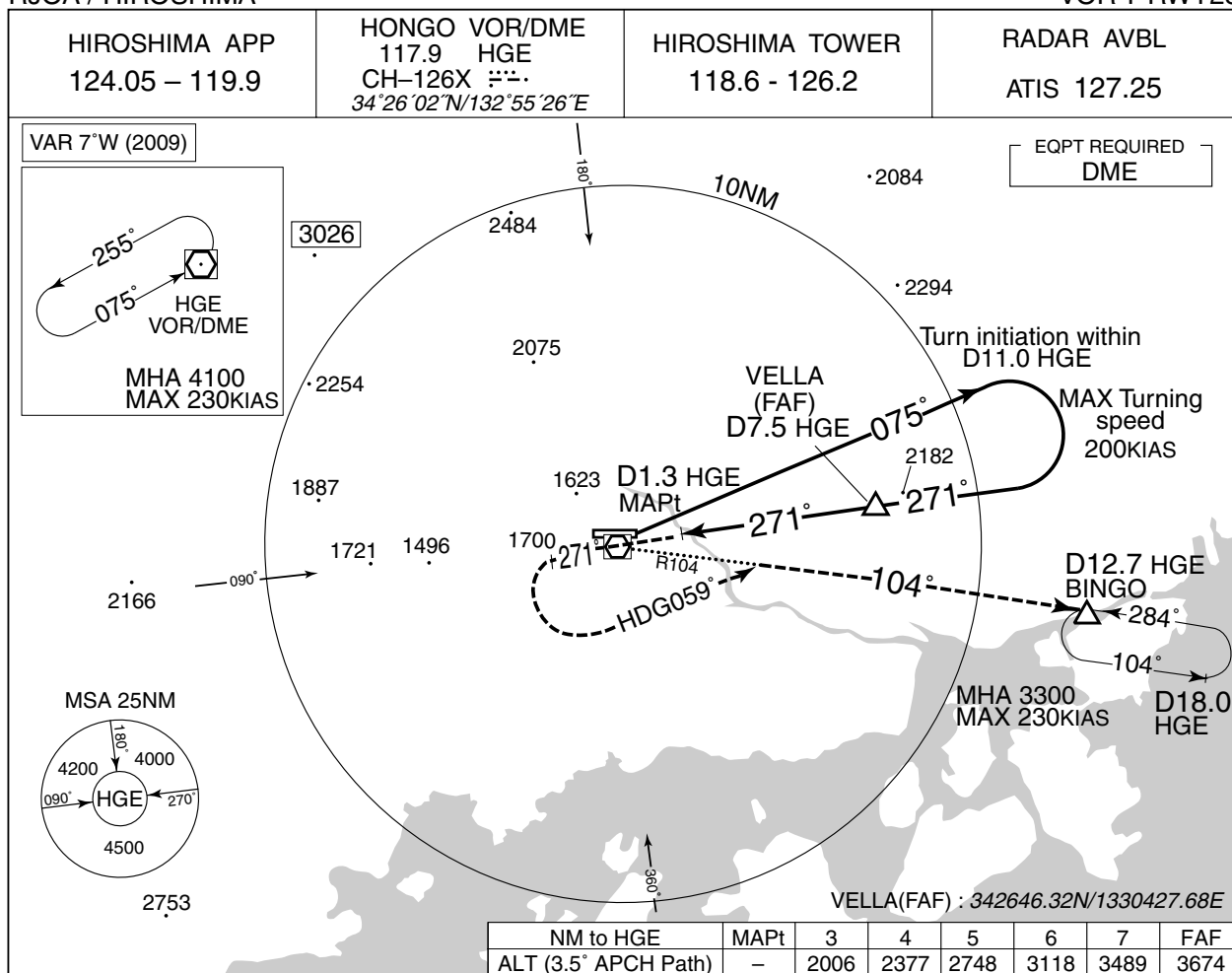
VOR Z RWY28



## INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

VOR Y RWY28



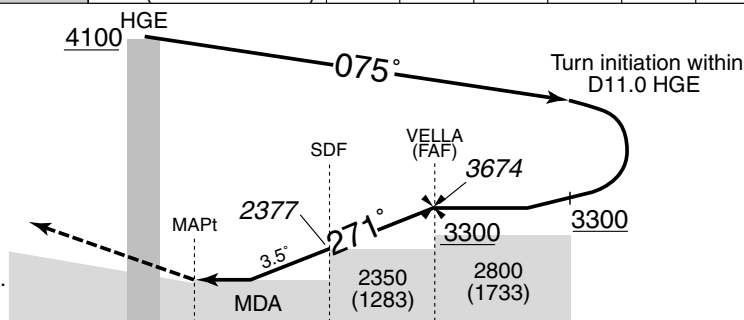
## MISSED APPROACH

Climb to 1700FT on HDG271°, turn left climb to 3300FT via HDG059° to intercept and proceed via HGE R104 to BINGO and hold.

Contact HIROSHIMA APP.

PAPI and descent angles not coincident.

Timing not authorized for defining the MAPt.



DME to HGE	0	1.3	4.0	7.5
NM to THR	0	0.8	3.4	6.9

MINIMA THR elev. 1067 AD elev. 1086

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	1420 (353)	1200	1510 (424)	1600
B	1450 (383)	1300	1540 (454)	
C	1480 (413)	1400		2400
D	1500 (433)	1600	1640 (554)	3200

Circling to SOUTH side of RWY only.

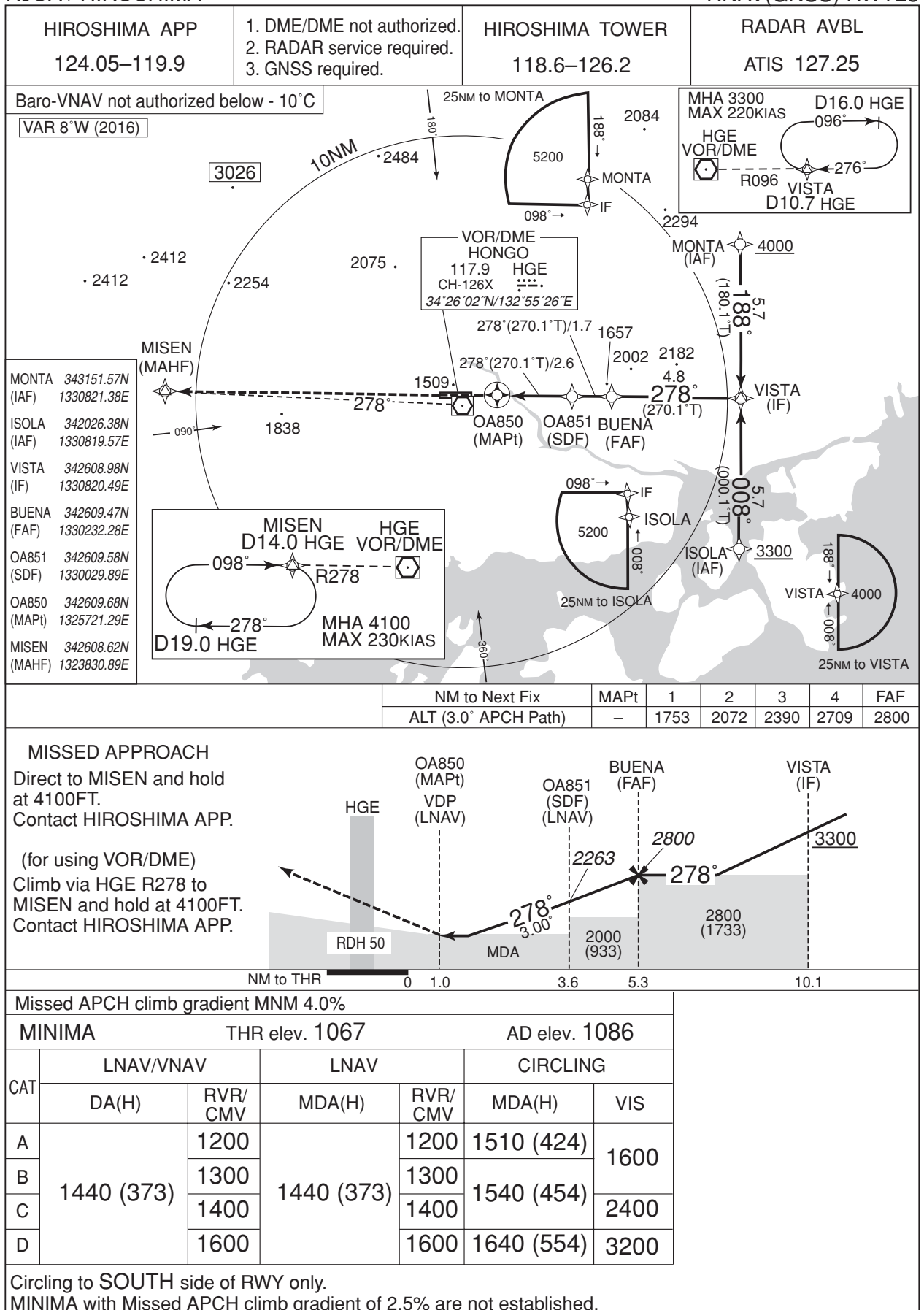
VDP not applicable.



## INSTRUMENT APPROACH CHART

## RJOA / HIROSHIMA

## RNAV(GNSS) RWY28



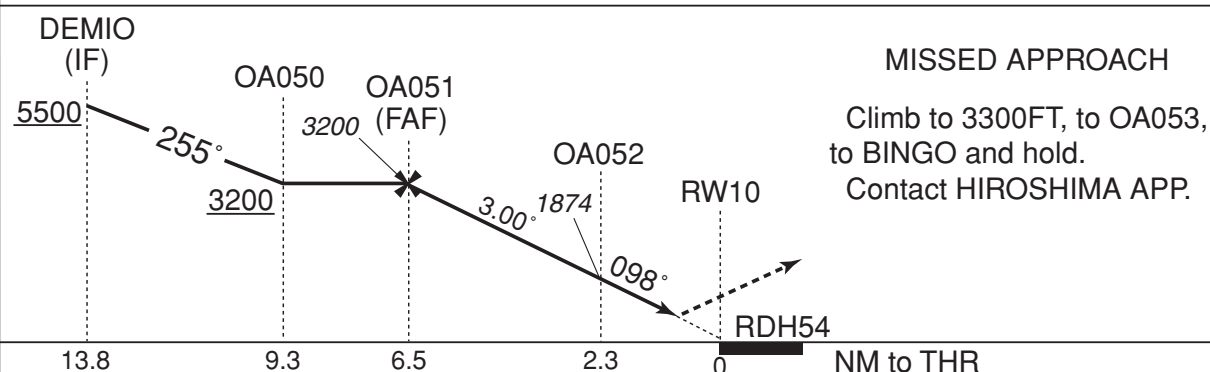
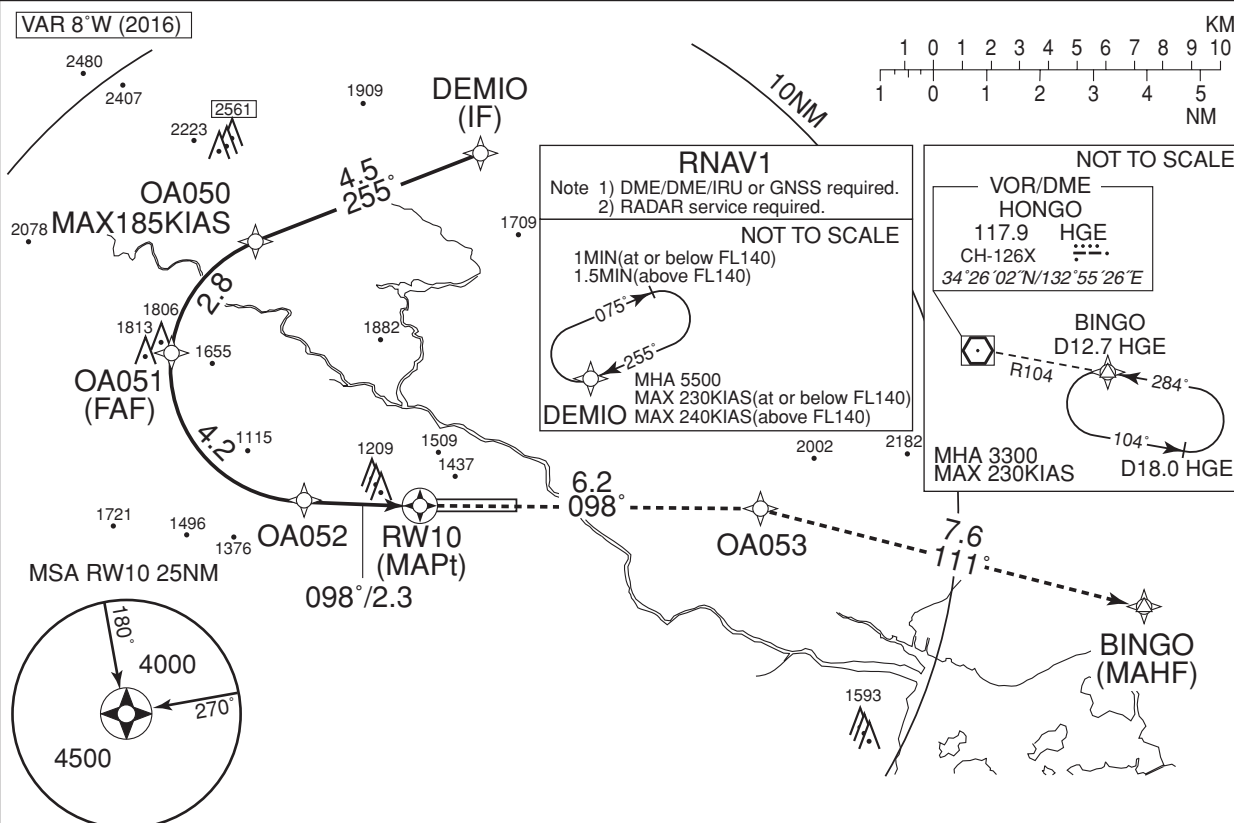
## INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNAV(RNP) Z RWY10

HIROSHIMA APP 124.05–119.9	GNSS and RF required.	HIROSHIMA TOWER 118.6–126.2	RADAR AVBL ATIS 127.25
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For uncompensated Baro-VNAV systems, procedure not authorized below -10°C / above 45°C



Missed APCH climb gradient MNM 5.0%

CAT	RNP 0.10		RNP 0.30	
	DA(H)	RVR/CMV	DA(H)	RVR/CMV
A	—	—	—	—
B	—	—	—	—
C	1515(443)	1000	1598(526)	1200
D	—	1400	—	1600

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

# RNP AR

Special Authorization Required

## INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNAV(RNP) Z RWY10

RNAV(RNP) Z RWY10Coding 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	DEMIO	—	—	-7.6	—	—	+5500	—	—	—
002	TF	OA050	—	255 (247.1)	-7.6	4.5	—	+3200	-185	—	1.0
003	RF Center: OARF1 r=2.54NM	OA051	—	—	-7.6	2.8	L	3200	—	—	1.0
004	RF Center: OARF1 r=2.54NM	OA052	—	—	-7.6	4.2	L	1874	—	-3.00	0.10 0.30
005	TF	RW10	Y	098 (090.0)	-7.6	2.3	—	1126	—	-3.00/54	0.10 0.30
006	TF	OA053	—	098 (090.0)	-7.6	6.2	—	—	—	—	1.0
007	TF	BINGO	—	111 (103.2)	-7.6	7.6	—	3300	—	—	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	DEMIO	255 (247.1)	-7.6	1.0(-14000) 1.5(+14001)	R	5500	—	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
DEMIO	343248.47N/1325512.50E	OARF1	342842.28N/1325120.72E
OA050	343102.99N/1325009.23E		
OA051	342852.58N/1324816.81E		
OA052	342609.63N/1325120.84E		
RW10	342609.69N/1325411.25E		
OA053	342609.67N/1330143.51E		
BINGO	342425.72N/1331040.68E		

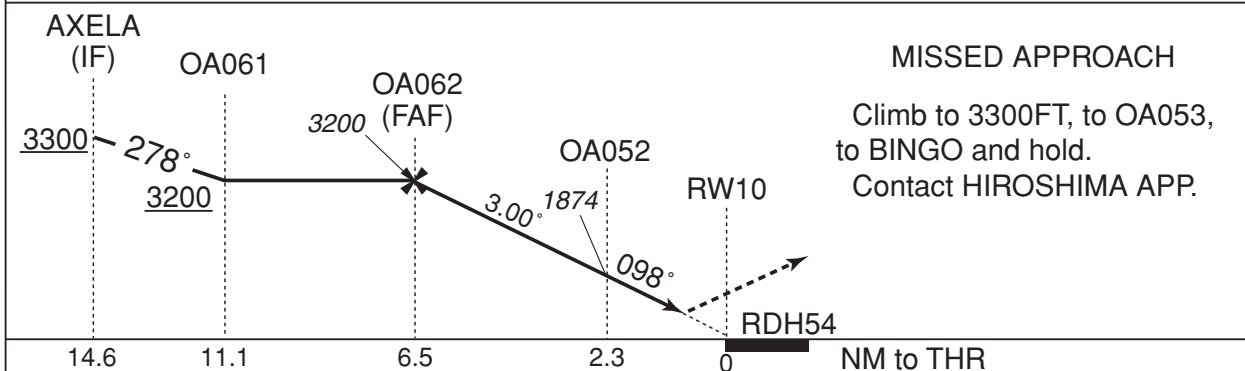
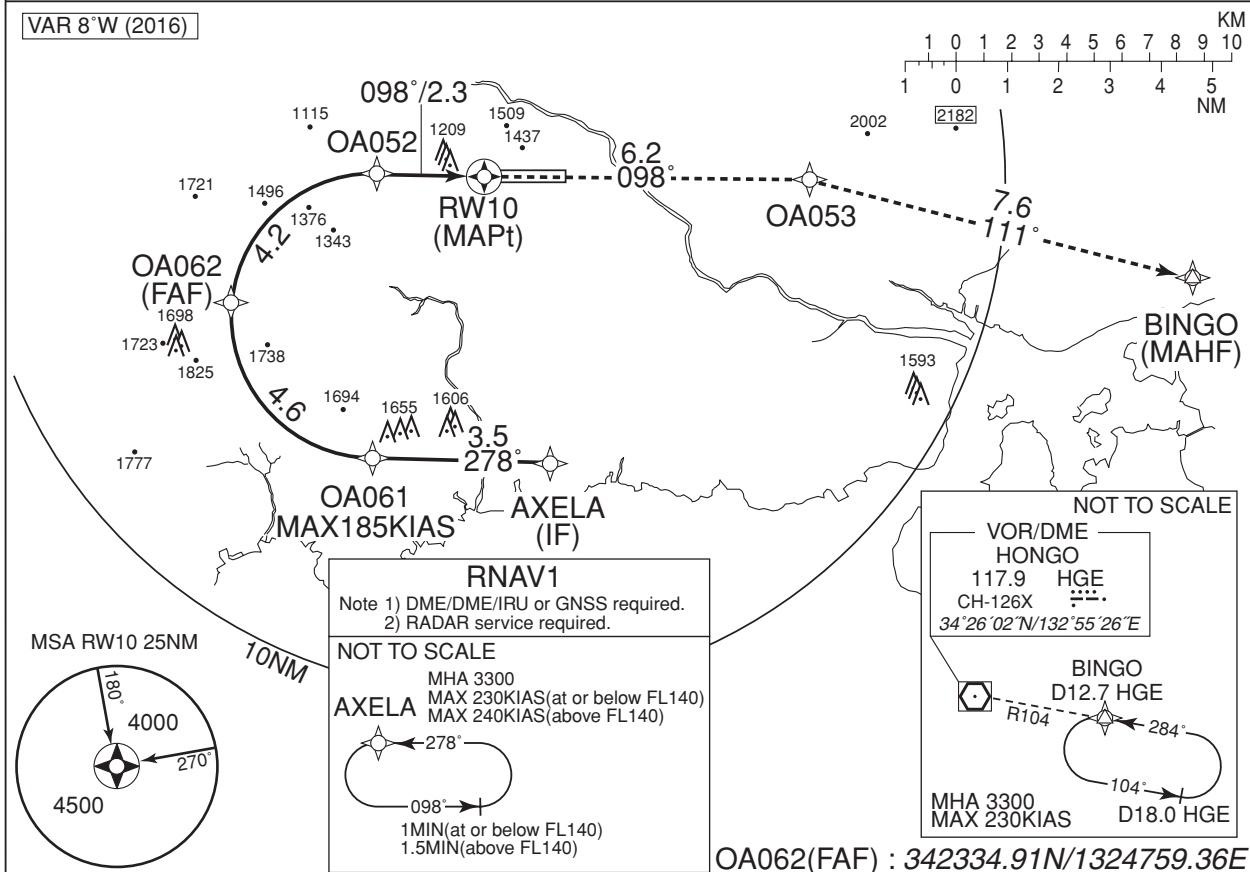
## INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNAV(RNP) Y RWY10

HIROSHIMA APP 124.05–119.9	GNSS and RF required.	HIROSHIMA TOWER 118.6–126.2	RADAR AVBL ATIS 127.25
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For uncompensated Baro-VNAV systems, procedure not authorized below -10°C / above 45°C



Missed APCH climb gradient MNM 5.0%

MINIMA		THR elev. 1072	AD elev. 1086	
CAT	RNP 0.10		RNP 0.30	
	DA(H)	RVR/CMV	DA(H)	RVR/CMV
A	—	—	—	—
B				
C	1515(443)	1000	1598(526)	1200
D		1400		1600

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

# RNP AR

Special Authorization Required

## INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNAV(RNP) Y RWY10

RNAV(RNP) Y RWY10Coding 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	AXELA	—	—	-7.6	—	—	+3300	—	—	1.0
002	TF	OA061	—	278 (270.0)	-7.6	3.5	—	+3200	-185	—	1.0
003	RF Center: OARF2 r=2.79NM	OA062	—	—	-7.6	4.6	R	3200	—	—	1.0
004	RF Center: OARF2 r=2.79NM	OA052	—	—	-7.6	4.2	R	1874	—	-3.00	0.10 0.30
005	TF	RW10	Y	098 (090.0)	-7.6	2.3	—	1126	—	-3.00/54	0.10 0.30
006	TF	OA053	—	098 (090.0)	-7.6	6.2	—	—	—	—	1.0
007	TF	BINGO	—	111 (103.2)	-7.6	7.6	—	3300	—	—	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AXELA	278 (270.0)	-7.6	1.0(-14000) 1.5(+14001)	L	3300	—	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
AXELA	342034.40N/1325534.80E	OARF2	342321.96N/1325120.96E
OA061	342034.29N/1325121.21E		
OA062	342334.91N/1324759.36E		
OA052	342609.63N/1325120.84E		
RW10	342609.69N/1325411.25E		
OA053	342609.67N/1330143.51E		
BINGO	342425.72N/1331040.68E		



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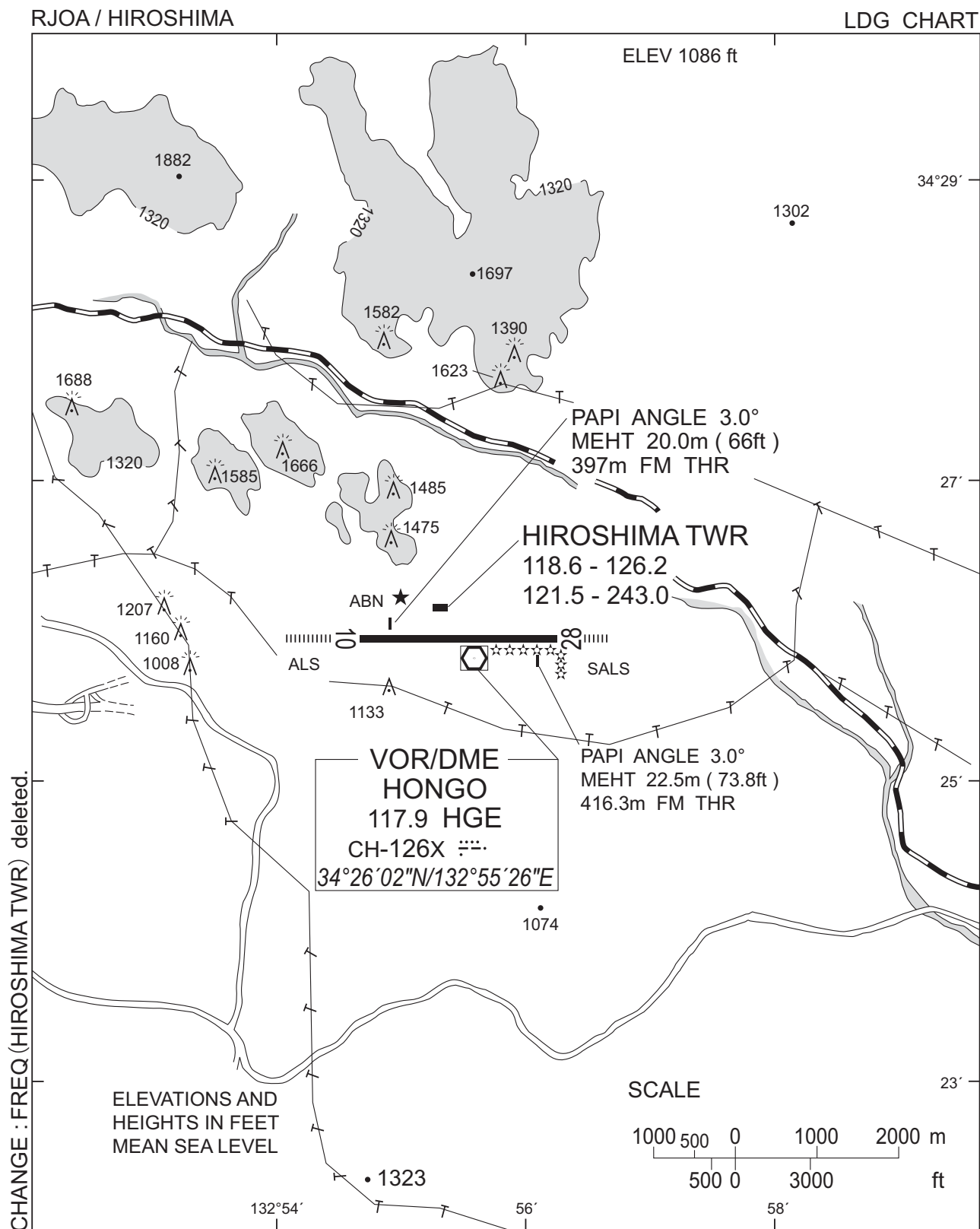
Visual REP



CHANGE : Map updated. BRG/DIST from ARP.

※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

Call sign	BRG / DIST from ARP	Remarks
白竜 Hakuryu	345°T / 4.3NM	湖 Lake
小佐木 Kosagi	115°T / 10.1NM	小佐木島 Kosagi - Island
竹原 Takehara	184°T / 5.8NM	竹原駅 Railway Station
三永サウス Minaga South	251°T / 8.4NM	東広島駅 Railway Station
新庄 Shinjo	209°T / 2.9NM	新庄交差点 Shinjo Intersection



RJOA / HIROSHIMA

Minimum Vectoring Altitude CHART

