

RJOA / HIROSHIMA

AD CHART

CHANGE : CEILOMETER, WIND SPEED METER added.

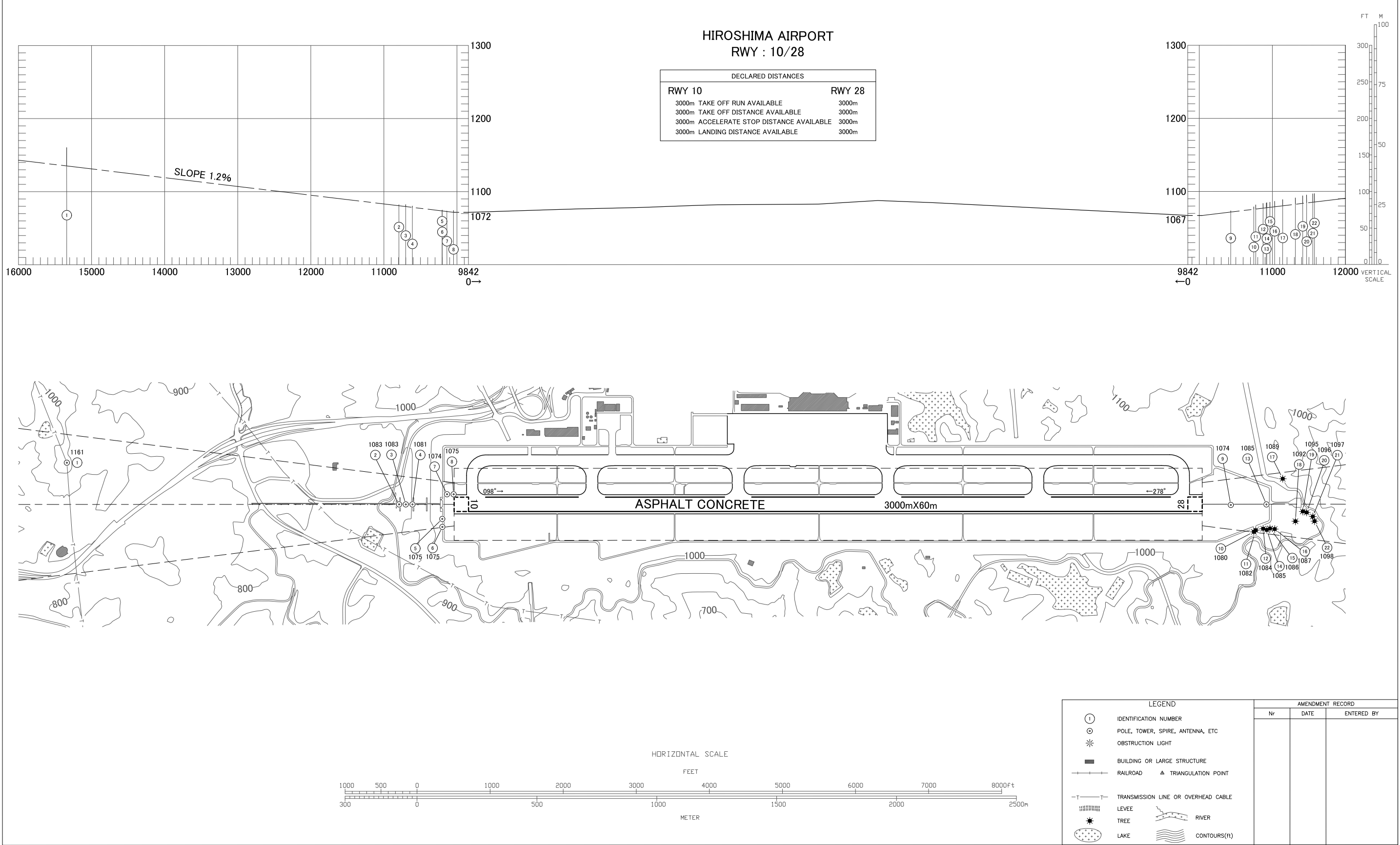


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AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 8° W-JUN 2022



CHANGE : VAR.

AERODROME OBSTACLE CHART-ICAO
TYPE B (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME ELEVATION 1086ft ARP

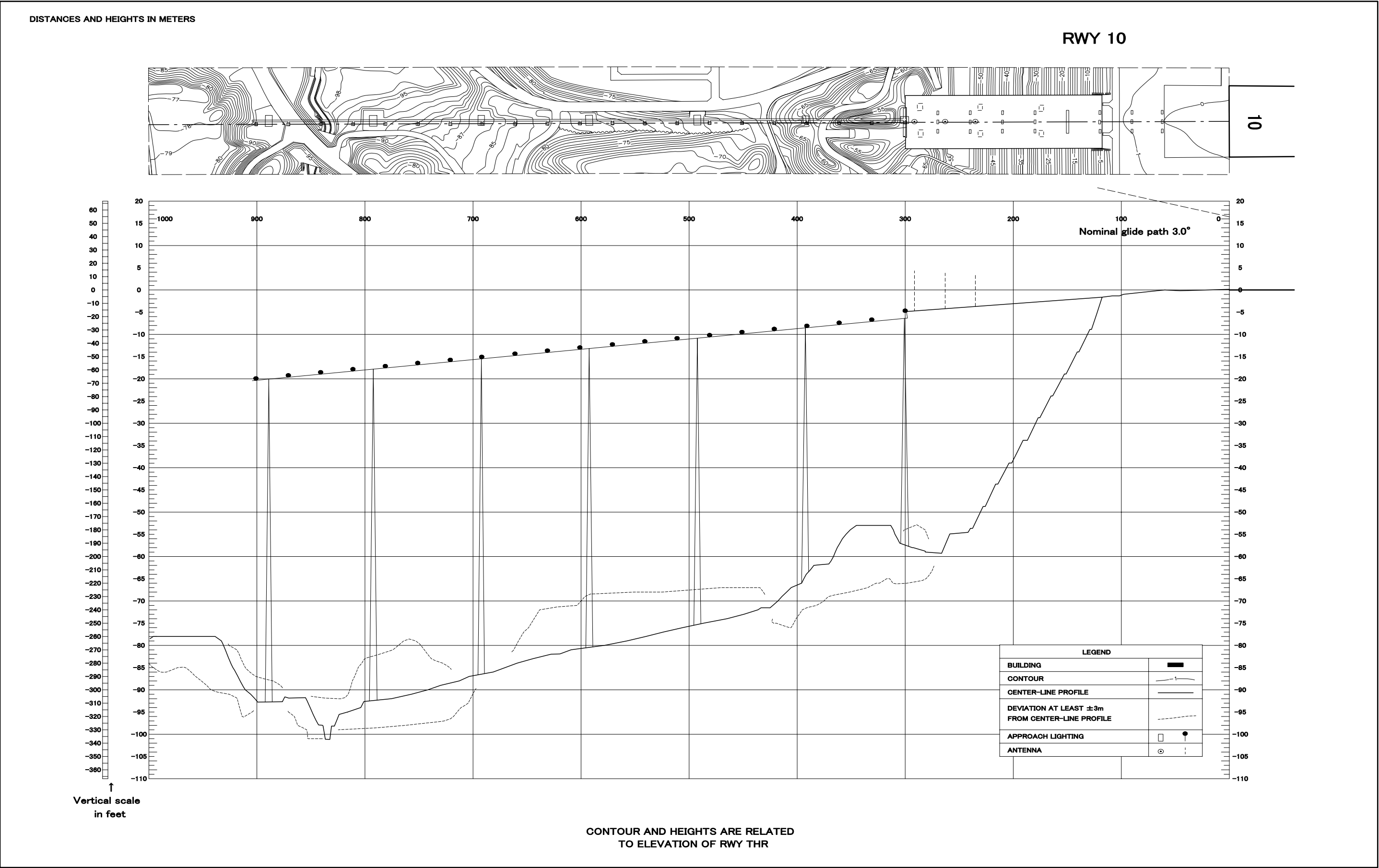


LEGEND	AMENDMENT RECORD		
	NO	DATE	ENTERED BY
✦ AERODROME REFERENCE POINT 54°26'10"N 132°55'10"E			
⊙ POLE, TOWER, SPIRE, ANTENNA, ETC			
★ AERONAUTICAL GROUND LIGHT			
✧ OBSTRUCTION LIGHT			
■ BUILDING OR LARGE STRUCTURE			
—+—+— TERRAIN PENETRATING OBSTACLE PLANE			
—T—T— TRANSMISSION LINE OR OVERHEAD CABLE			
— LEVEE			
✧ TREE			
⊙ LAKE			
— RIVER			
— CONTOURS(11)			

CHANGE : VAR.

PRECISION APPROACH TERRAIN CHART-ICAO

PRECISION APPROACH TERRAIN CHART



STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

SID

HONGO REVERSAL FOUR DEPARTURE

RWY 10 : Climb RWY HDG to HGE 4.6DME(4.0NM FM DER), turn left....,
RWY 28 : Climb on HDG 271° 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 088°/5.7NM FM DER.
RWY28 : 3.8% climb gradient required up to 1600FT.
OBST ALT 2559FT located at 338°/7.7NM FM DER.



CHANGE : PROC renamed. PROC course. Note RWY10(OBST). Note RWY28(Climb gradient, OBST).

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

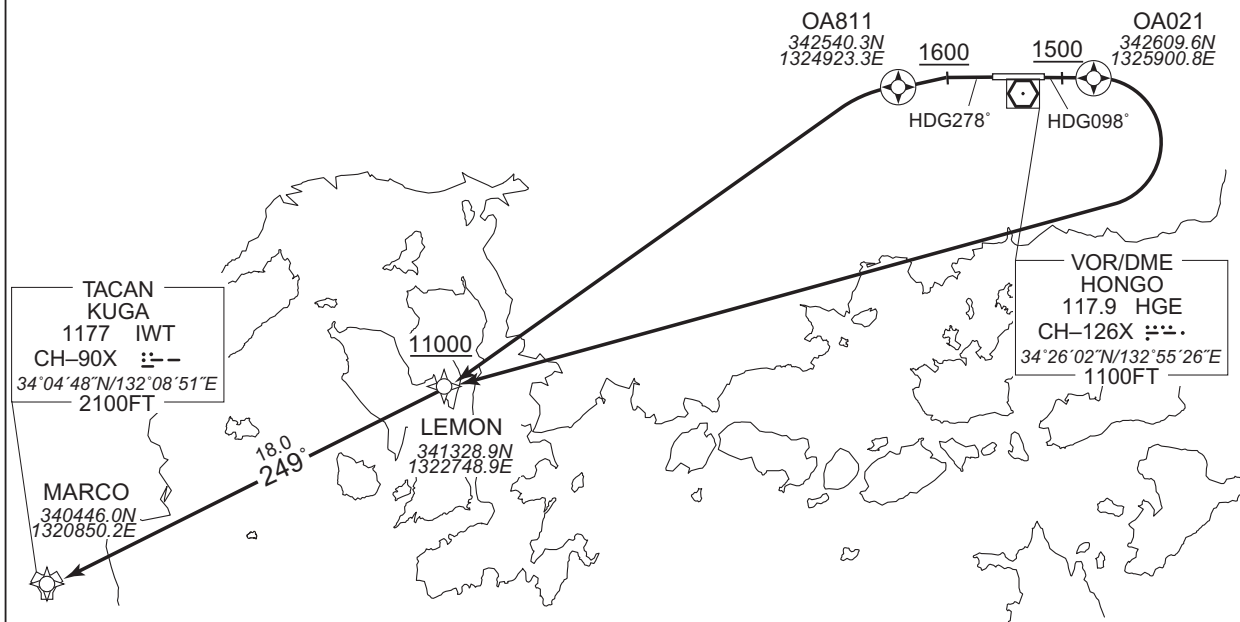
RNAV SID

MARCO TWO DEPARTURE

Basic RNP1

Note GNSS required.

VAR 8°W (2022)



RWY10 : Climb on HDG098° at or above 1500FT, direct to OA021, turn right direct to LEMON at or above 11000FT, to MARCO.

RWY28 : Climb on HDG278° at or above 1600FT, direct to OA811, turn left direct to LEMON at or above 11000FT, to MARCO.

NOTE RWY10 : 5.0% climb gradient required up to 1500FT.

RWY28 : 3.6% climb gradient required up to 1600FT.

RWY10

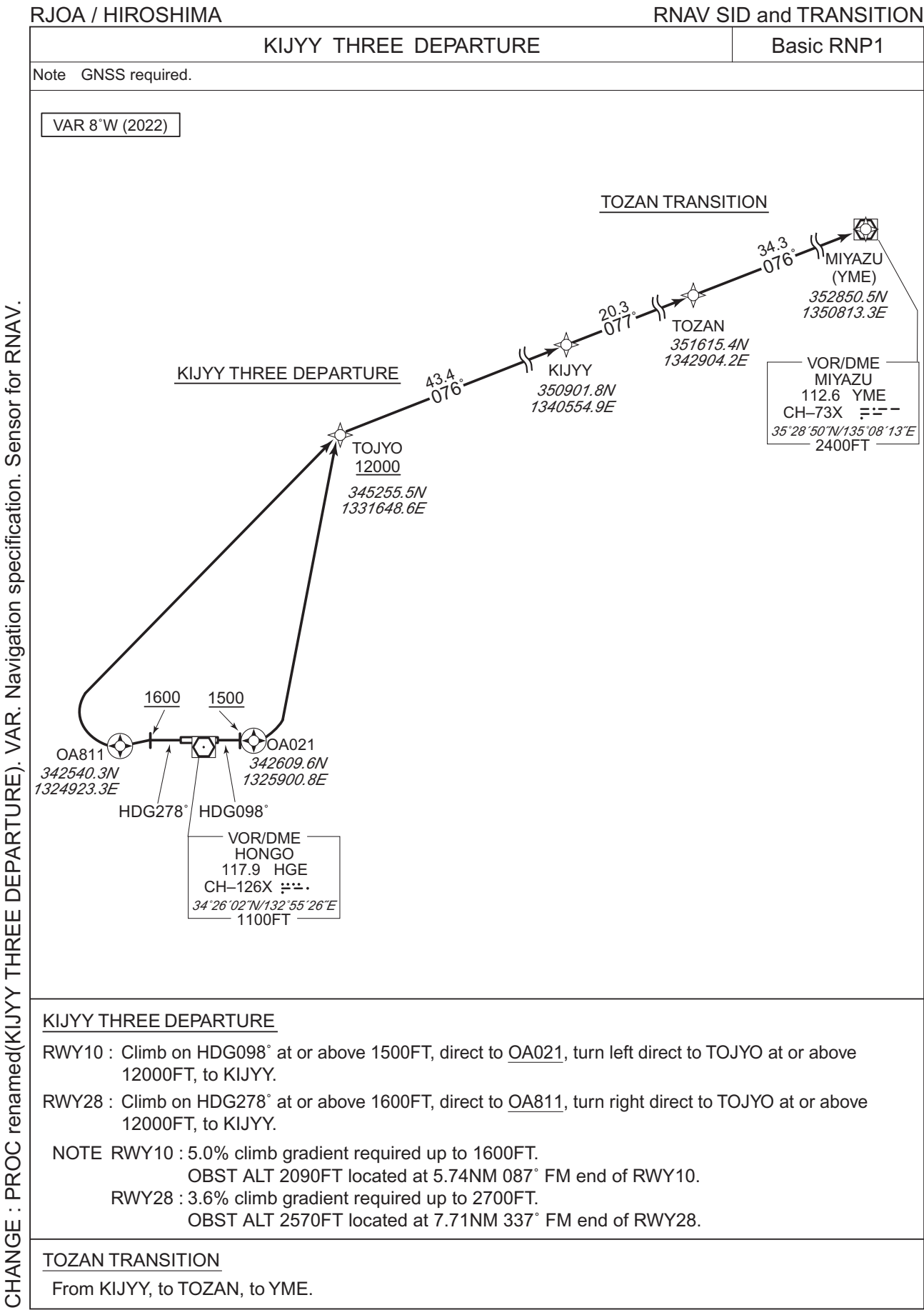
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	098 (090.0)	-8.1	—	—	+1500	—	—	Basic RNP1
002	DF	OA021	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	LEMON	—	—	-8.1	—	R	+11000	—	—	Basic RNP1
004	TF	MARCO	—	249 (241.1)	-8.1	18.0	—	—	—	—	Basic RNP1

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)	-8.1	—	—	+1600	—	—	Basic RNP1
002	DF	OA811	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	LEMON	—	—	-8.1	—	L	+11000	—	—	Basic RNP1
004	TF	MARCO	—	249 (241.1)	-8.1	18.0	—	—	—	—	Basic RNP1

CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART - INSTRUMENT



STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

KIJYY 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)	-8.1	—	—	+1500	—	—	Basic RNP1
002	DF	OA021	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	TOJYO	—	—	-8.1	—	L	+12000	—	—	Basic RNP1
004	TF	KIJYY	—	076 (067.9)	-8.1	43.4	—	—	—	—	Basic RNP1

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)	-8.1	—	—	+1600	—	—	Basic RNP1
002	DF	OA811	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	TOJYO	—	—	-8.1	—	R	+12000	—	—	Basic RNP1
004	TF	KIJYY	—	076 (067.9)	-8.1	43.4	—	—	—	—	Basic RNP1

TOZAN TRANSITION

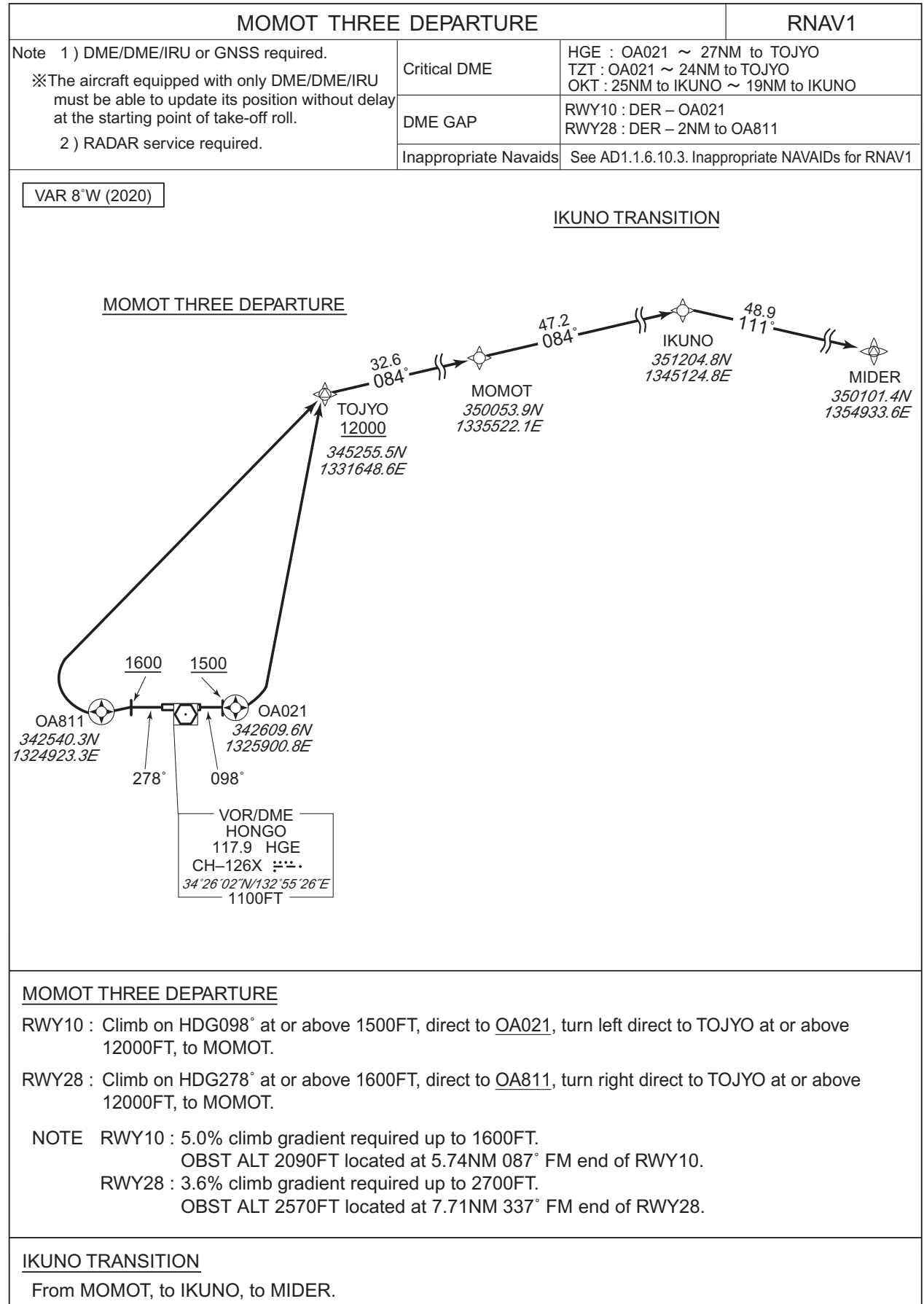
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KIJYY	—	—	-8.1	—	—	—	—	—	Basic RNP1
002	TF	TOZAN	—	077 (069.0)	-8.1	20.3	—	—	—	—	Basic RNP1
003	TF	YME	—	076 (068.3)	-8.1	34.3	—	—	—	—	Basic RNP1

CHANGE : PROC renamed(KIJYY THREE DEPARTURE). VAR. Navigation specification.

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and 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.

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

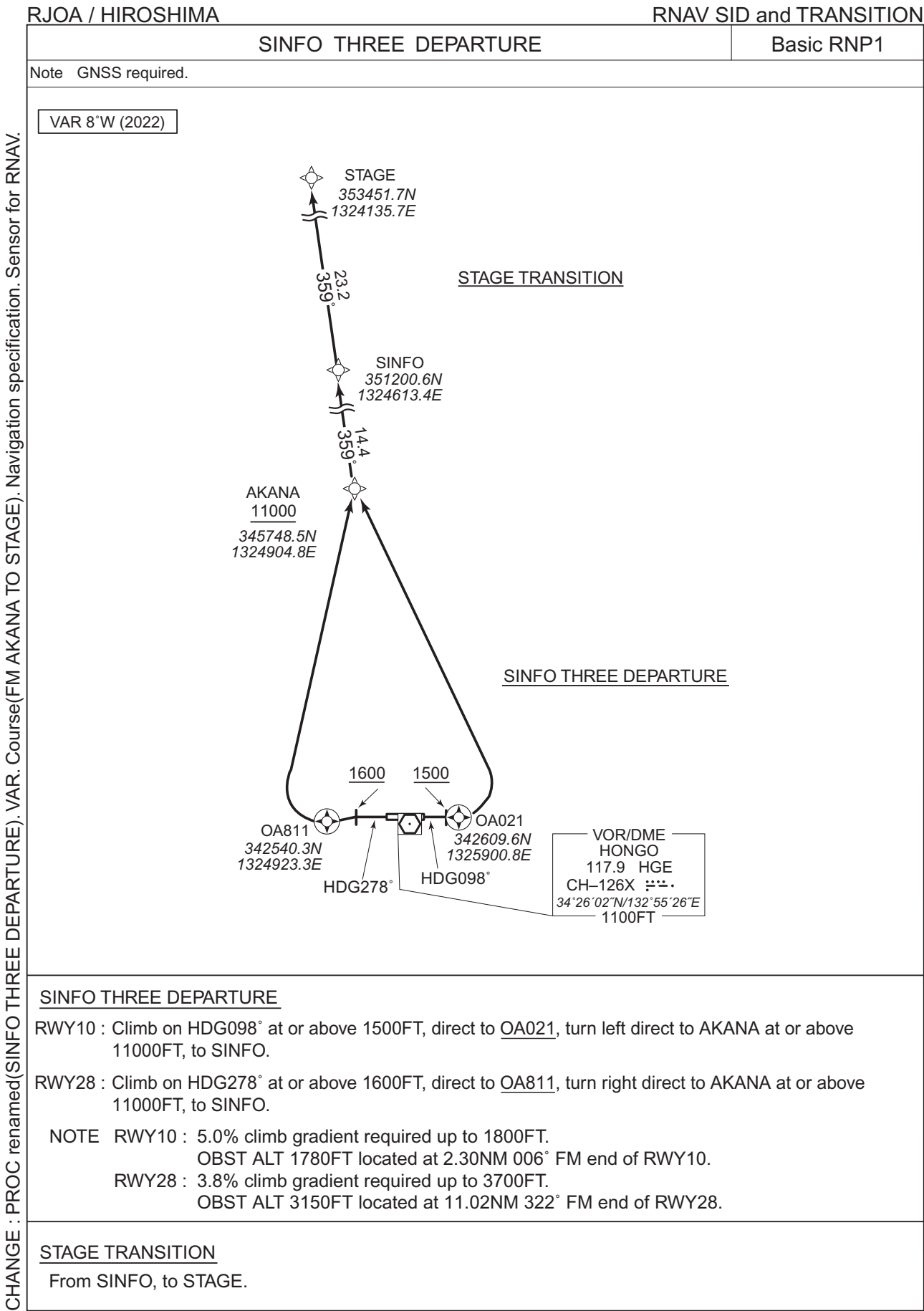
RWY28

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

STANDARD DEPARTURE CHART -INSTRUMENT



CHANGE : PROC renamed(SINFO THREE DEPARTURE). VAR: Course(FM AKANA TO STAGE). Navigation specification. Sensor for RNAV.

STANDARD DEPARTURE CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

SINFO 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)	-8.1	—	—	+1500	—	—	Basic RNP1
002	DF	OA021	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	AKANA	—	—	-8.1	—	L	+11000	—	—	Basic RNP1
004	TF	SINFO	—	359 (350.7)	-8.1	14.4	—	—	—	—	Basic RNP1

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)	-8.1	—	—	+1600	—	—	Basic RNP1
002	DF	OA811	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	AKANA	—	—	-8.1	—	R	+11000	—	—	Basic RNP1
004	TF	SINFO	—	359 (350.7)	-8.1	14.4	—	—	—	—	Basic RNP1

STAGE TRANSITION

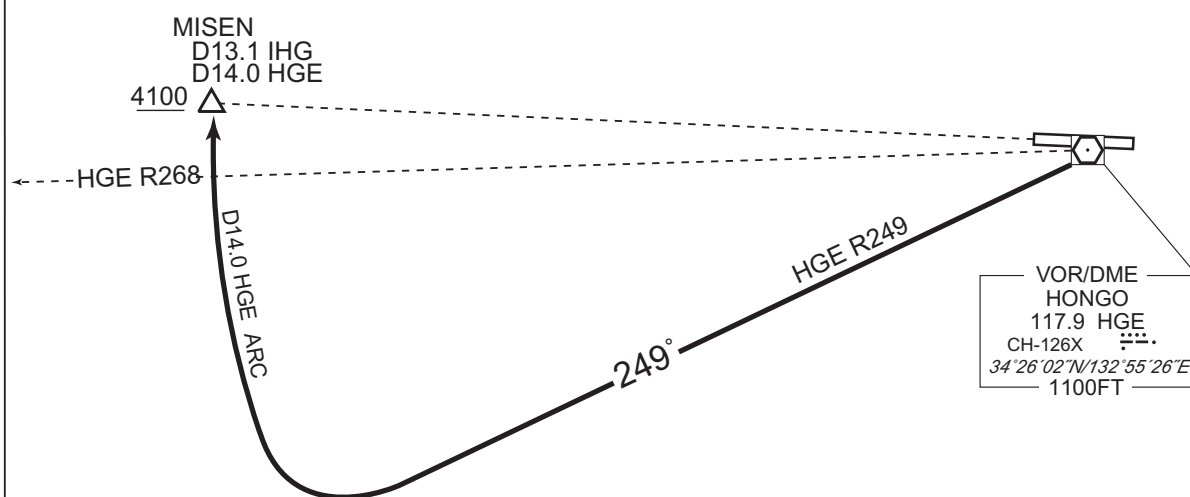
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	SINFO	—	—	-8.1	—	—	—	—	—	Basic RNP1
002	TF	STAGE	—	359 (350.6)	-8.1	23.2	—	—	—	—	Basic RNP1

CHANGE : PROC renamed(SINFO THREE DEPARTURE). VAR. Course(FM AKANA TO STAGE). Navigation specification.

RJOA / HIROSHIMA

STAR

From over HGE VOR/DME, via HGE R249 to intercept and proceed via HGE 14.0DME clockwise ARC to MISEN.
Cross MISEN at or above 4100FT.



CHANGE : Course FM HGE to MISEN.

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV STAR RWY10

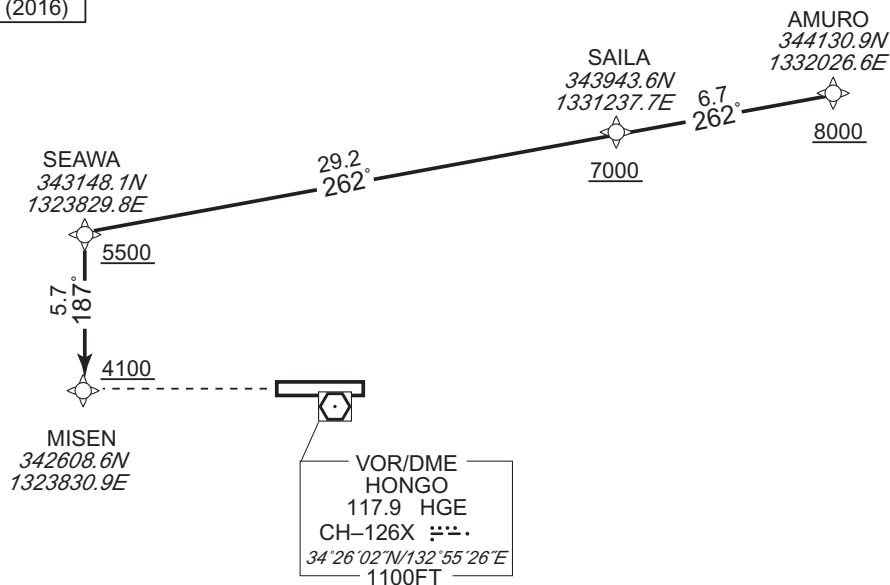
MISEN ARRIVAL

RNAV1

Note 1) DME/DME/IRU or GNSS required.

2) RADAR service required.

VAR 8°W (2016)



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.

CHANGE : Description of PROC name.

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

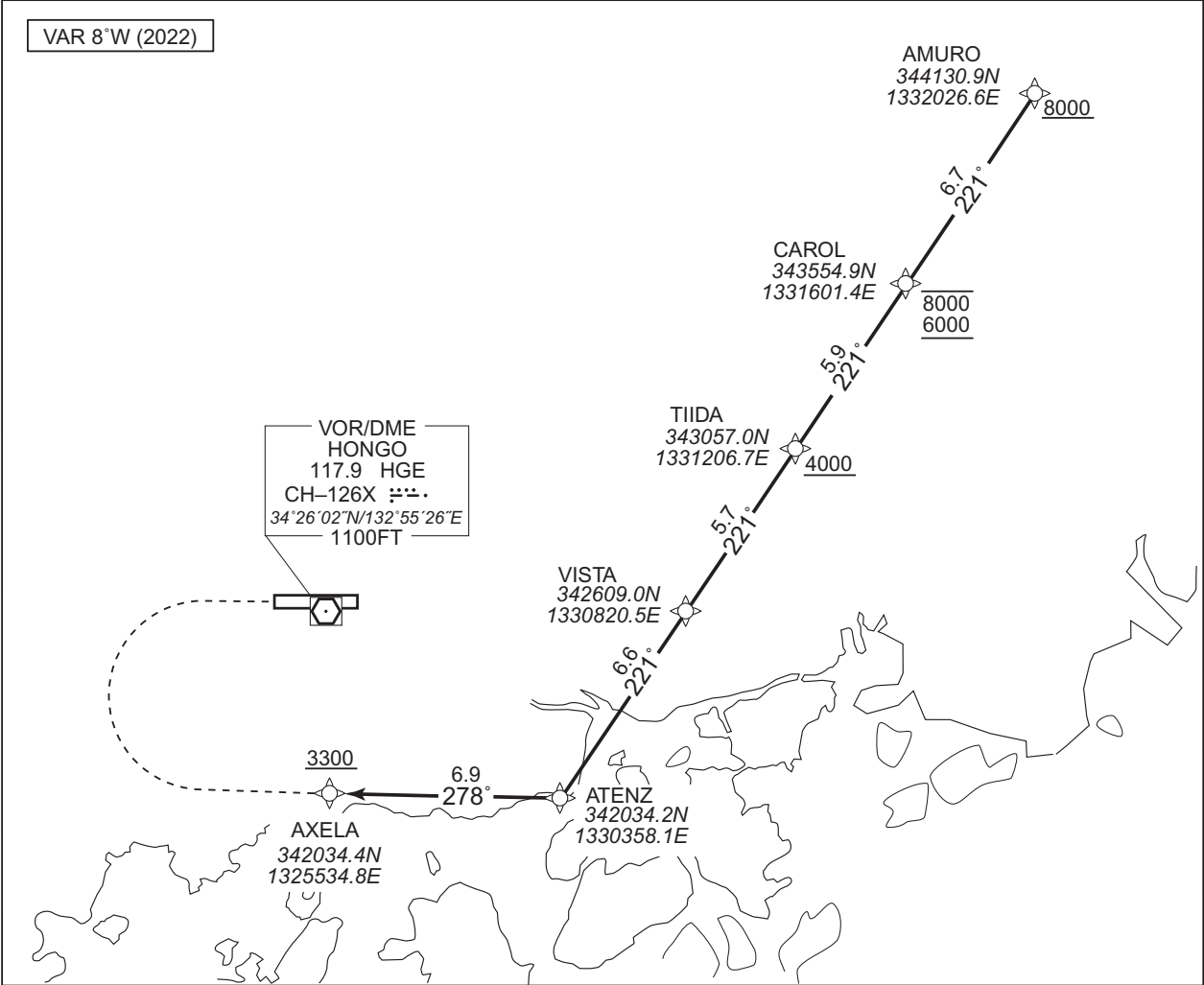
STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMARNAV STAR RWY10

AXELA ARRIVAL	Basic RNP1
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Note GNSS required.

VAR 8°W (2022)



From AMURO at or above 8000FT, to CAROL between 8000FT and 6000FT, to TIIDA at or above 4000FT, to VISTA, to ATENZ, to AXELA at or above 3300FT.

CHANGE : Description of PROC name.

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	—	—	-8.1	—	—	+8000	—	—	Basic RNP1
002	TF	CAROL	—	221 (213.0)	-8.1	6.7	—	-8000 +6000	—	—	Basic RNP1
003	TF	TIIDA	—	221 (213.0)	-8.1	5.9	—	+4000	—	—	Basic RNP1
004	TF	VISTA	—	221 (212.9)	-8.1	5.7	—	—	—	—	Basic RNP1
005	TF	ATENZ	—	221 (212.9)	-8.1	6.6	—	—	—	—	Basic RNP1
006	TF	AXELA	—	278 (270.1)	-8.1	6.9	—	+3300	—	—	Basic RNP1

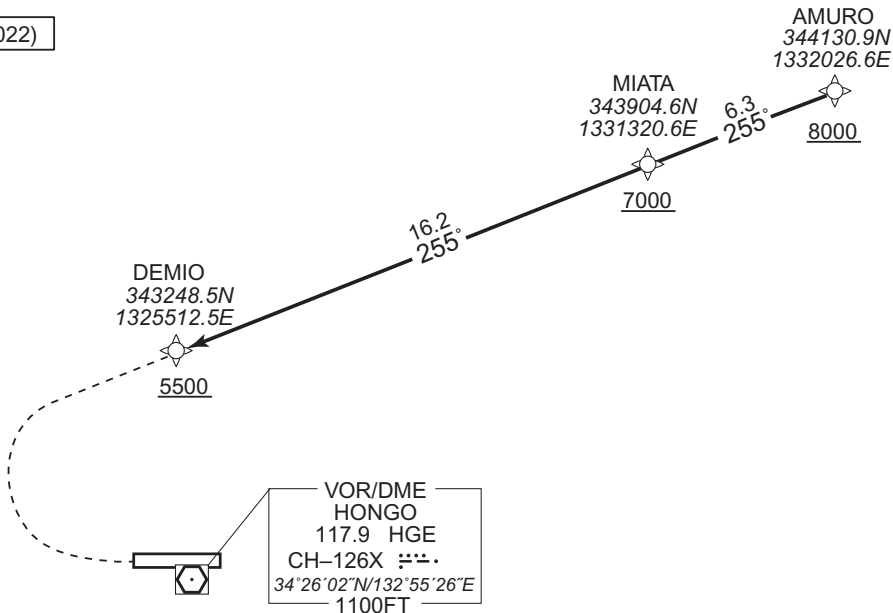
STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMARNAV STAR RWY10

DEMIO ARRIVAL	Basic RNP1
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Note GNSS required.

VAR 8°W (2022)



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

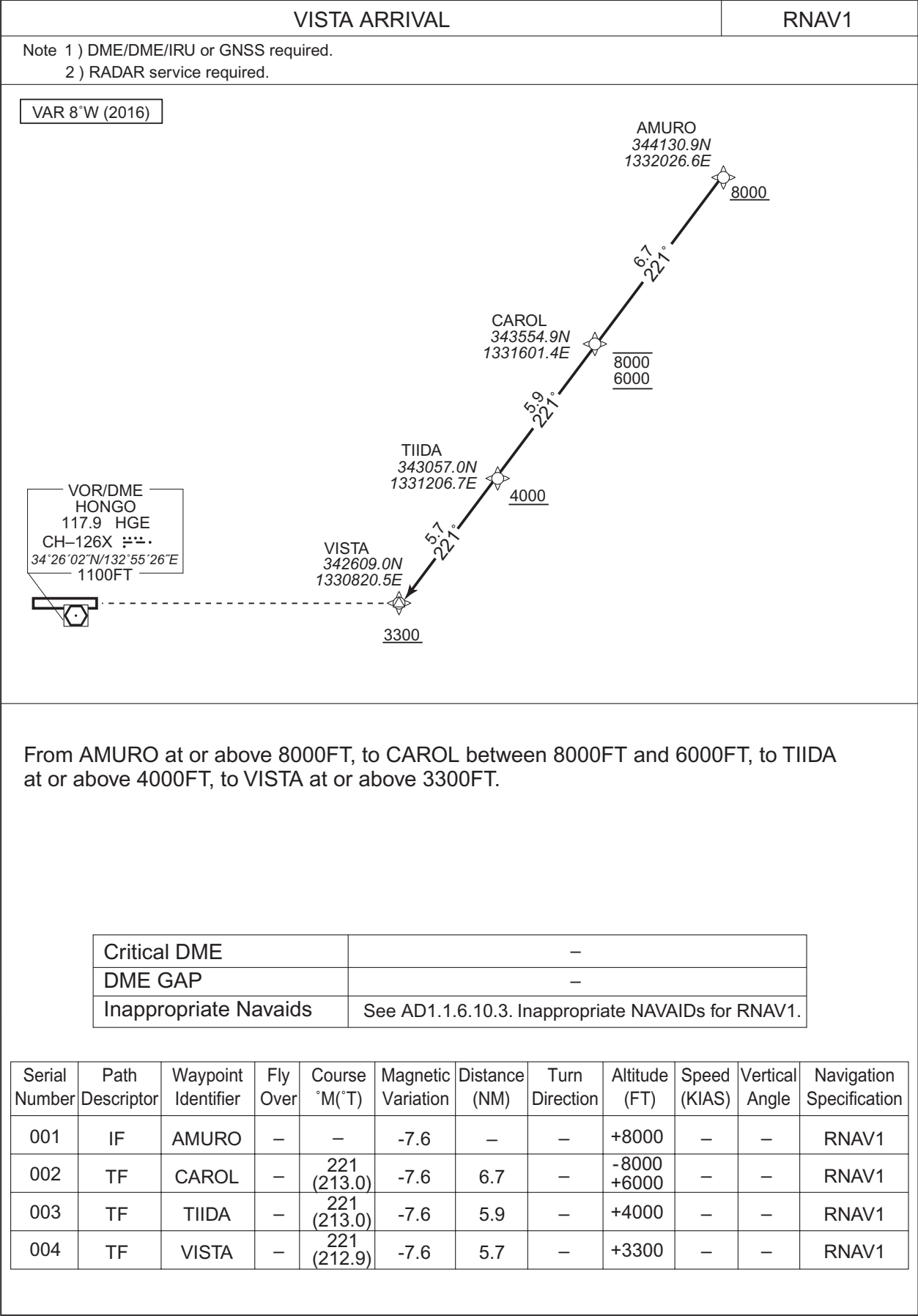
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AMURO	—	—	-8.1	—	—	+8000	—	—	Basic RNP1
002	TF	MIATA	—	255 (247.4)	-8.1	6.3	—	+7000	—	—	Basic RNP1
003	TF	DEMIO	—	255 (247.3)	-8.1	16.2	—	+5500	—	—	Basic RNP1

CHANGE : Description of PROC name.

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV STAR RWY28

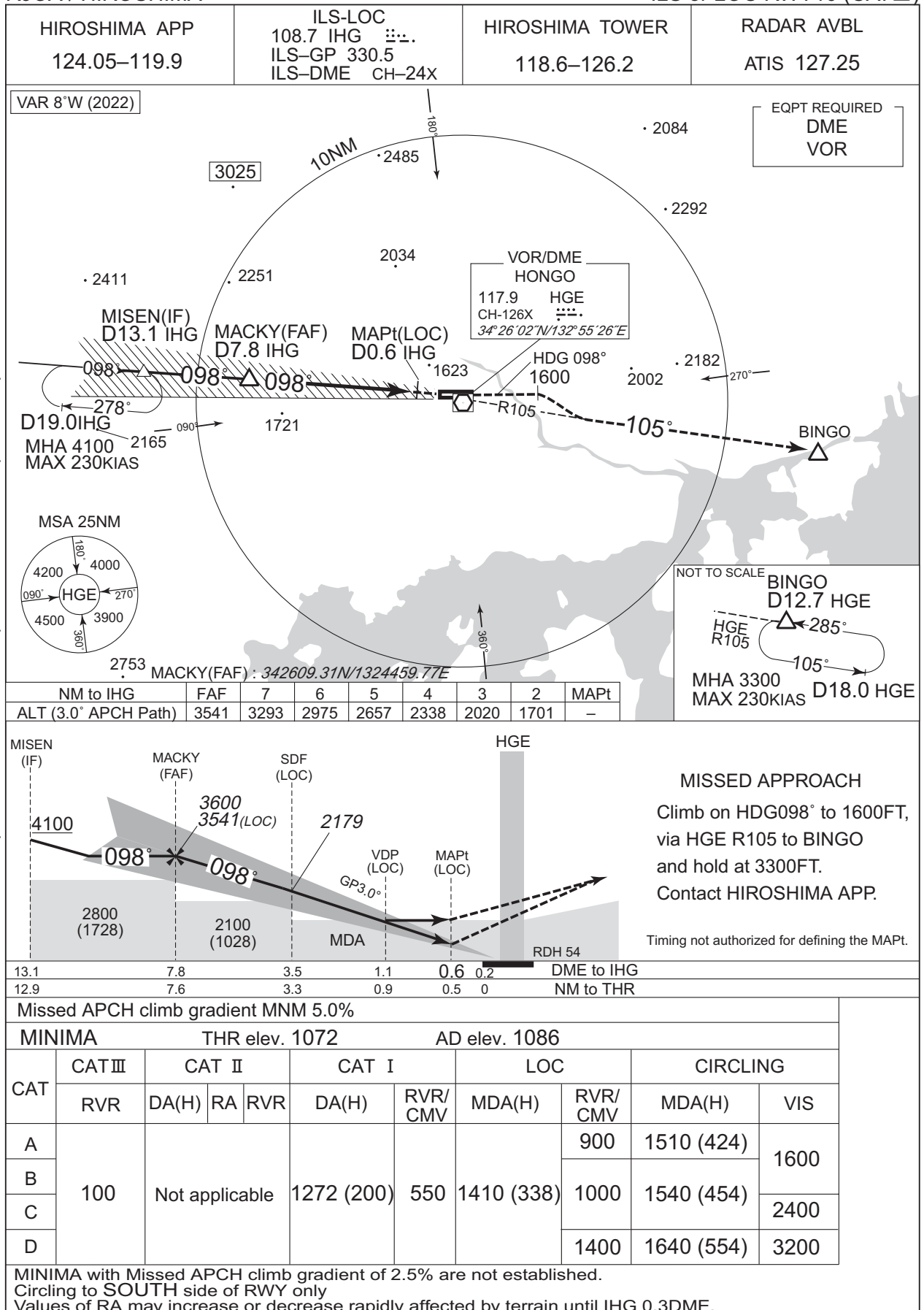


CHANGE : Description of PROC name.

INSTRUMENT APPROACH CHART

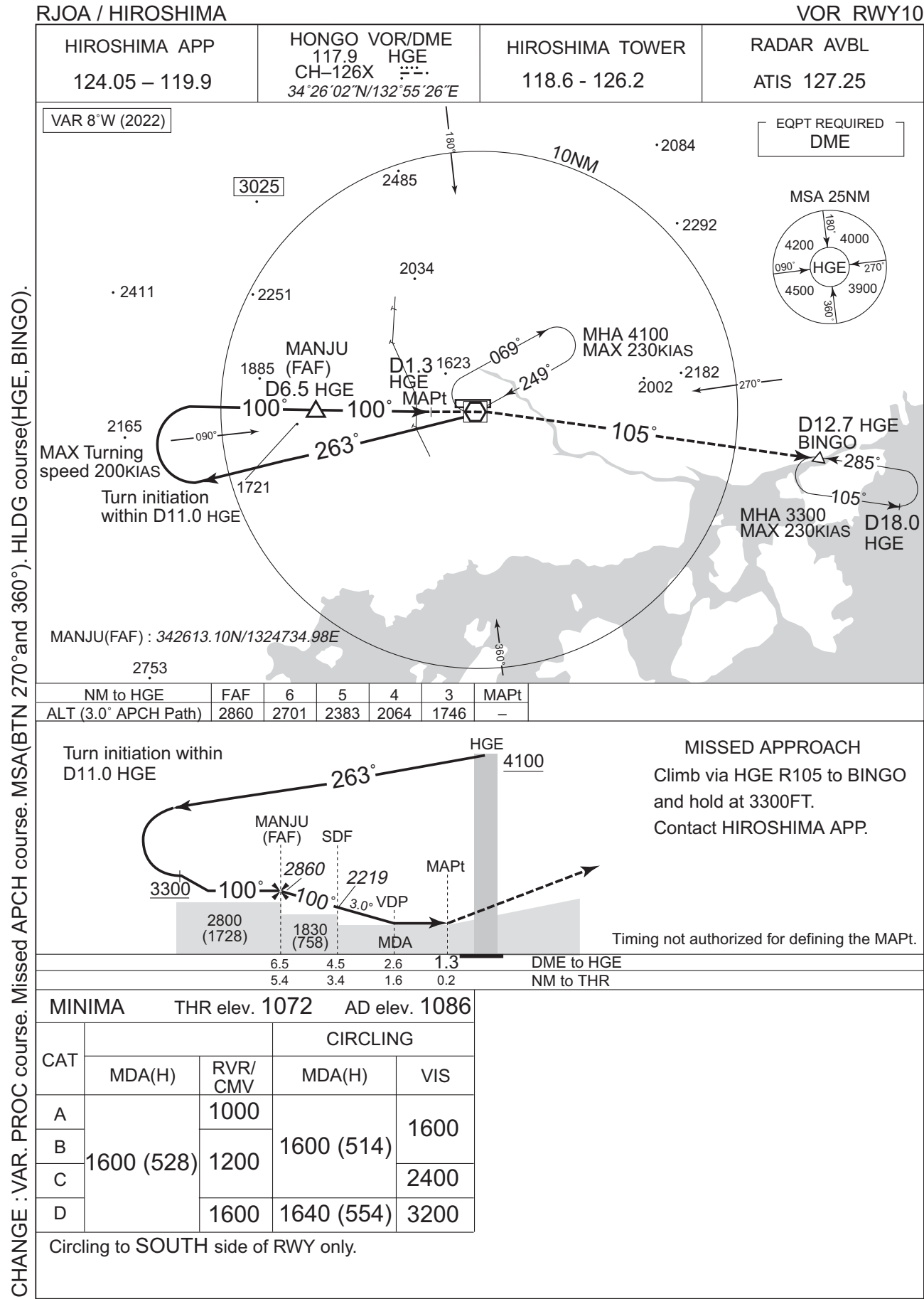
RJOA / HIROSHIMA

ILS or LOC RWY10 (CAT III)



CHANGE : VAR. Missed APCH course, MSA(BTN 270° and 360°). HLDG course(BINGO).

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

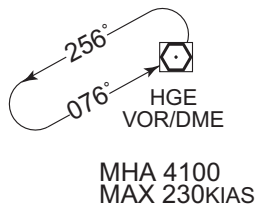
RJOA / HIROSHIMA

VOR RWY28

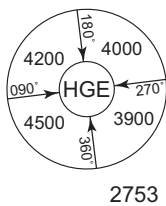
HIROSHIMA APP 124.05 – 119.9	HONGO VOR/DME 117.9 HGE CH-126X 34°26'02"N/132°55'26"E	HIROSHIMA TOWER 118.6 - 126.2	RADAR AVBL ATIS 127.25
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VAR 8°W (2022)

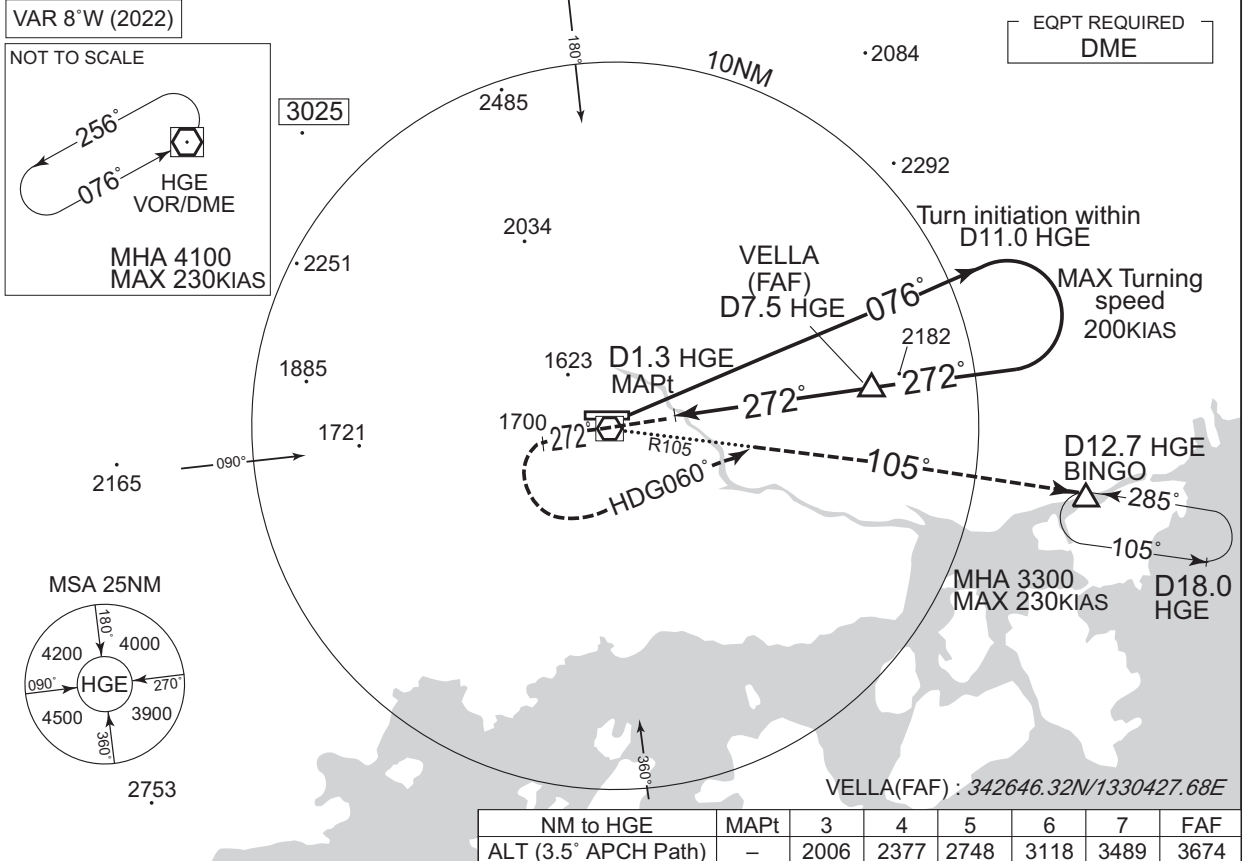
NOT TO SCALE



MSA 25NM

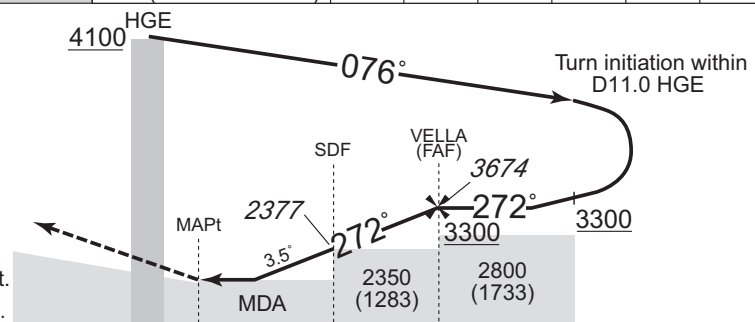


CHANGE : VAR. PROC course. Missed APCH course. MSA(BTN 270° and 360°). HLDG course(HGE, BINGO).



MISSED APPROACH

Climb to 1700FT on HDG272°, turn left climb to 3300FT via HDG060° to intercept and proceed via HGE R105 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

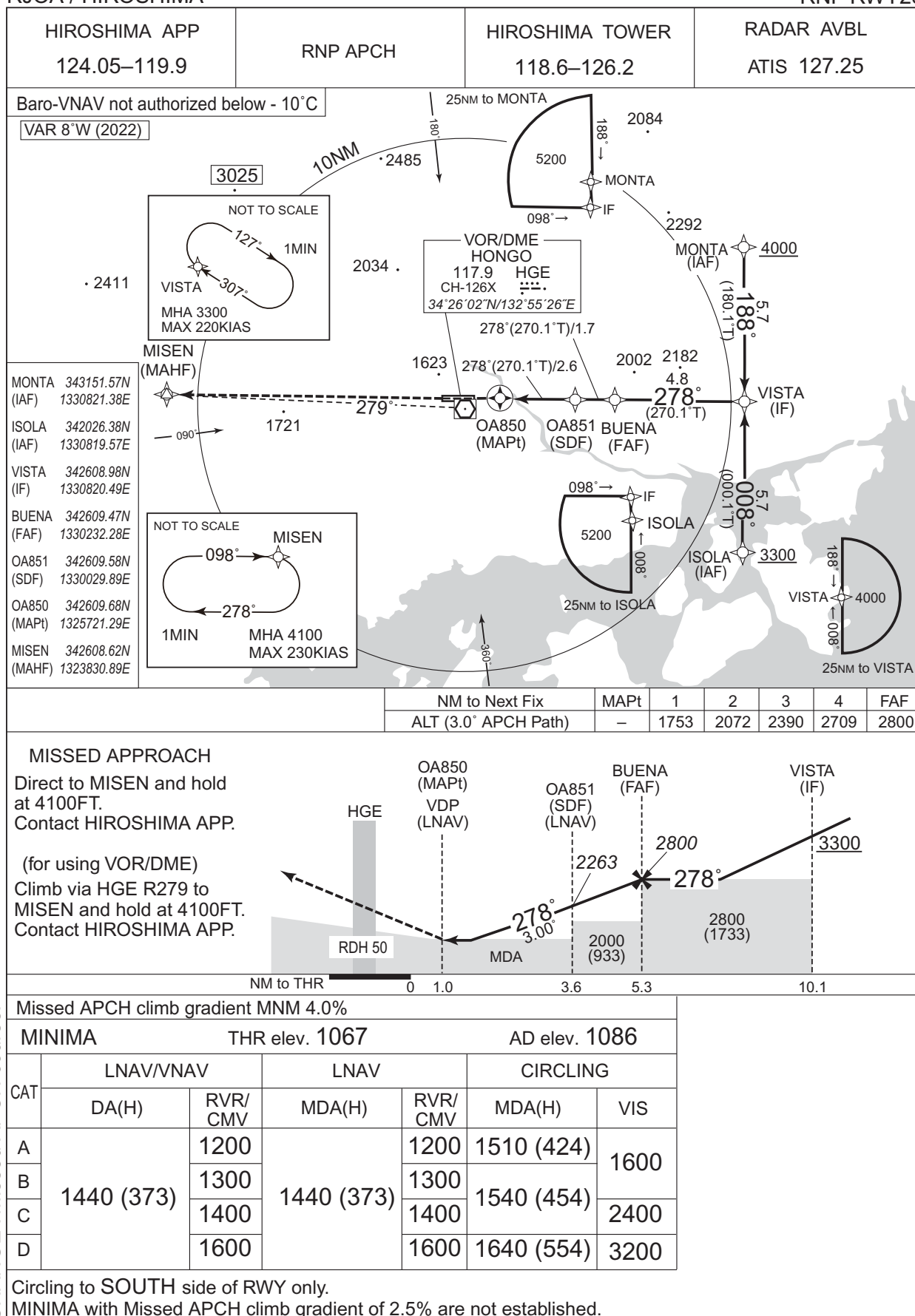
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	1420 (353)	1200	1510 (424)	1600
B	1450 (383)	1300	1540 (454)	
C	1480 (413)	1400		2400
D	1500 (433)	1600	1640 (554)	3200

Circling to SOUTH side of RWY only.
VDP not applicable.

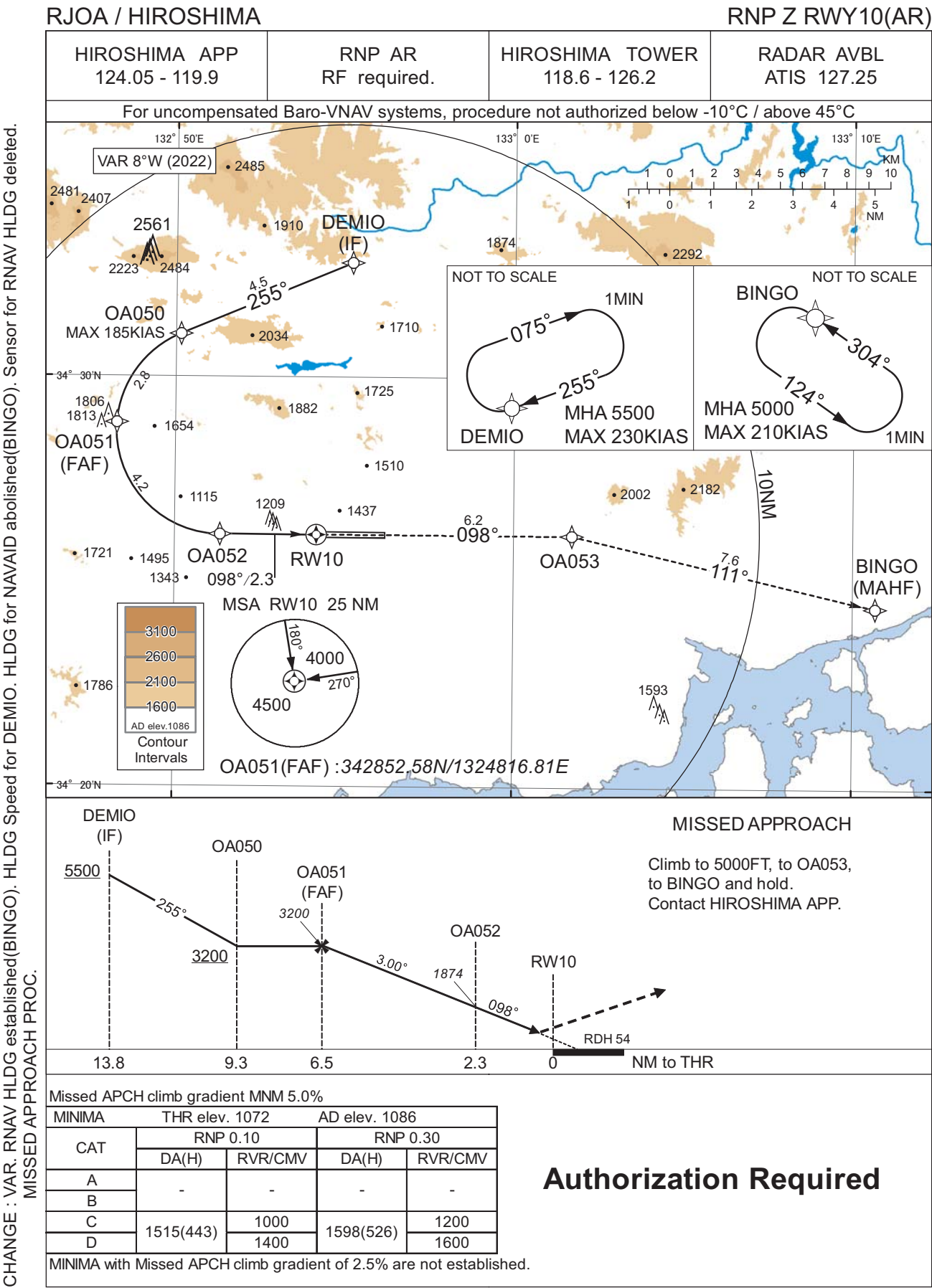
INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP RWY28



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP Z RWY10(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	DEMIO	-	-	-8.1	-	-	+5500	-	-	-
002	TF	OA050	-	255 (247.1)	-8.1	4.5	-	+3200	-185	-	1.0
003	RF Center: OARF1 r=2.54NM	OA051	-	-	-8.1	2.8	L	3200	-	-	1.0
004	RF Center: OARF1 r=2.54NM	OA052	-	-	-8.1	4.2	L	1874	-	-3.00	0.10 0.30
005	TF	RW10	Y	098 (090.0)	-8.1	2.3	-	1126	-	-3.00/54	0.10 0.30
006	TF	OA053	-	098 (090.0)	-8.1	6.2	-	-	-	-	1.0
007	TF	BINGO	-	111 (103.2)	-8.1	7.6	-	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	DEMIO	255 (247.1)	-8.1	1.0 (-14000)	R	5500	FL140	-230(-14000)	1.0
Hold	BINGO	304 (296.1)	-8.1	1.0 (-14000)	L	5000	FL140	-210(-14000)	1.0

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		

CHANGE : VAR. Altitude for BINGO. RNAV HLDG(DEMIO). RNAV HLDG established(BINGO). Navigation specification.

RJOA / HIROSHIMA

RNP Y RWY10(AR)



INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP Y RWY10(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	AXELA	-	-	-8.1	-	-	+3300	-	-	1.0
002	TF	OA061	-	278 (270.0)	-8.1	3.5	-	+3200	-185	-	1.0
003	RF Center: OARF2 r=2.79NM	OA062	-	-	-8.1	4.6	R	3200	-	-	1.0
004	RF Center: OARF2 r=2.79NM	OA052	-	-	-8.1	4.2	R	1874	-	-3.00	0.10 0.30
005	TF	RW10	Y	098 (090.0)	-8.1	2.3	-	1126	-	-3.00/54	0.10 0.30
006	TF	OA053	-	098 (090.0)	-8.1	6.2	-	-	-	-	1.0
007	TF	BINGO	-	111 (103.2)	-8.1	7.6	-	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	AXELA	278 (270.0)	-8.1	1.0 (-14000)	L	3300	FL140	-230(-14000)	1.0
Hold	BINGO	304 (296.1)	-8.1	1.0 (-14000)	L	5000	FL140	-210(-14000)	1.0

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		

CHANGE : VAR. Altitude for BINGO. RNAV HLDG(AXELA). RNAV HLDG established(BINGO). Navigation specification.

RJOA / HIROSHIMA

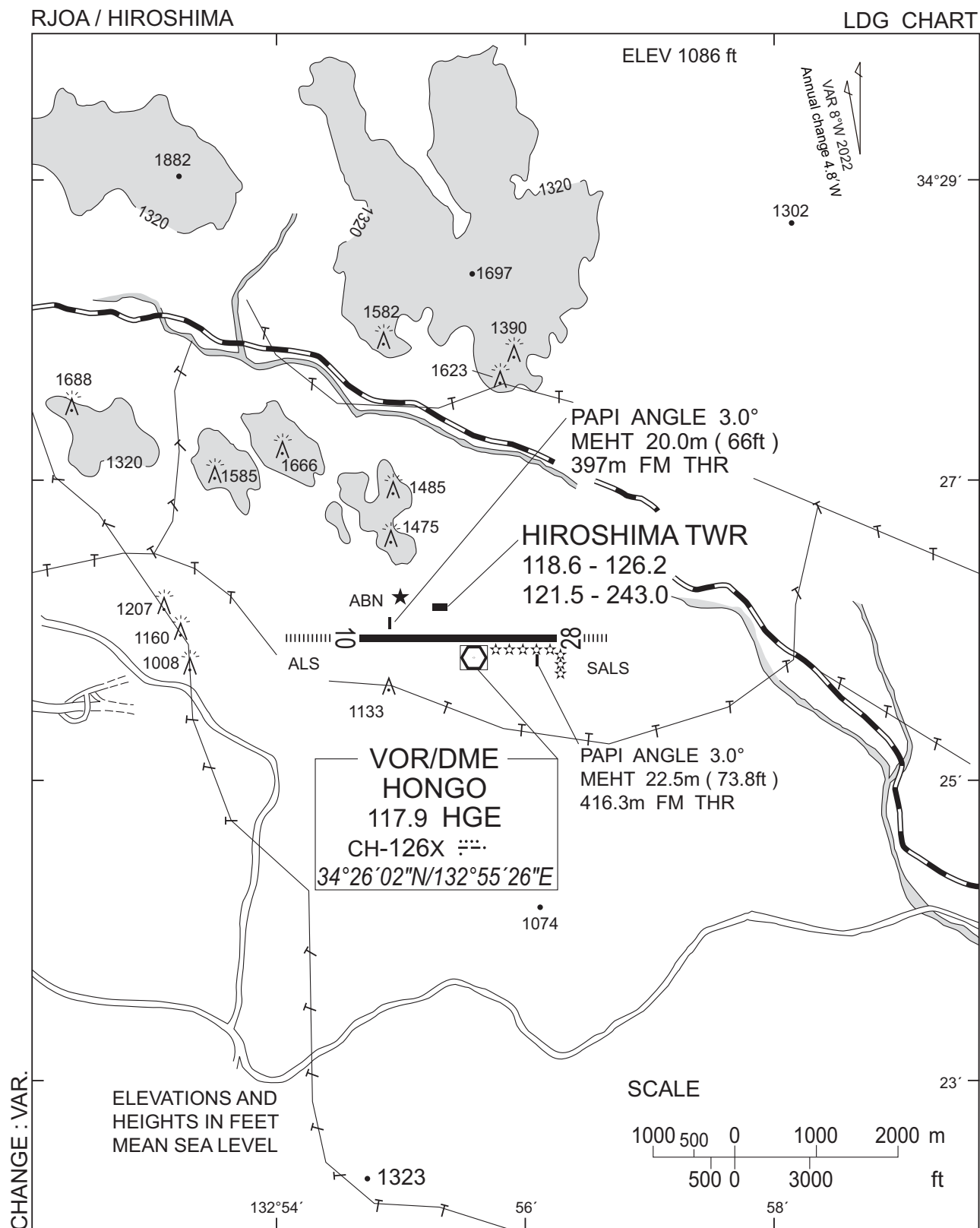
Visual REP



※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).

CHANGE : VAR.

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

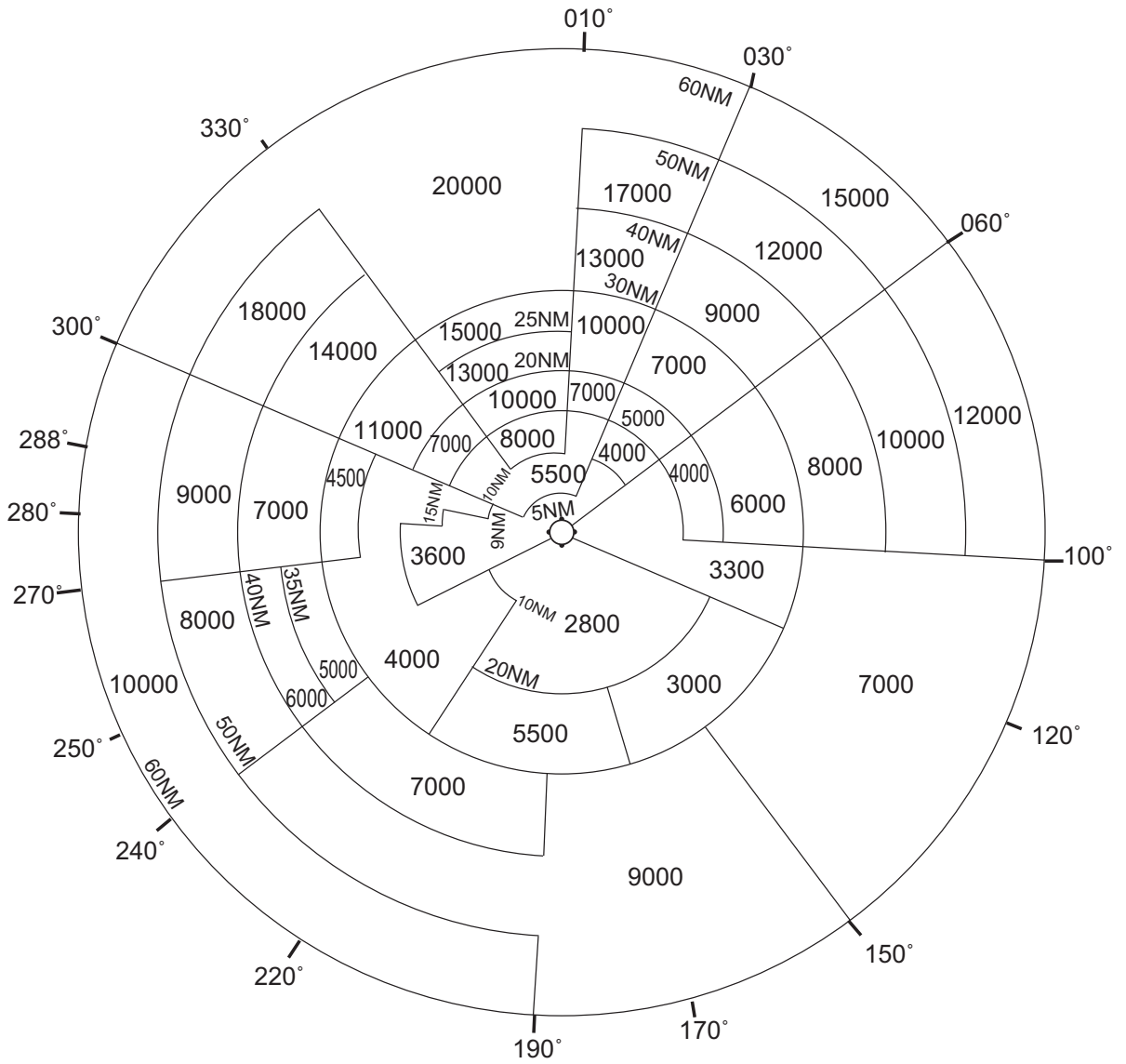


RJOA / HIROSHIMA

Minimum Vectoring Altitude CHART

CHANGE : VAR.

VAR 8°W (2022)



CENTER : 342602N/1325458E (RADAR SITE)