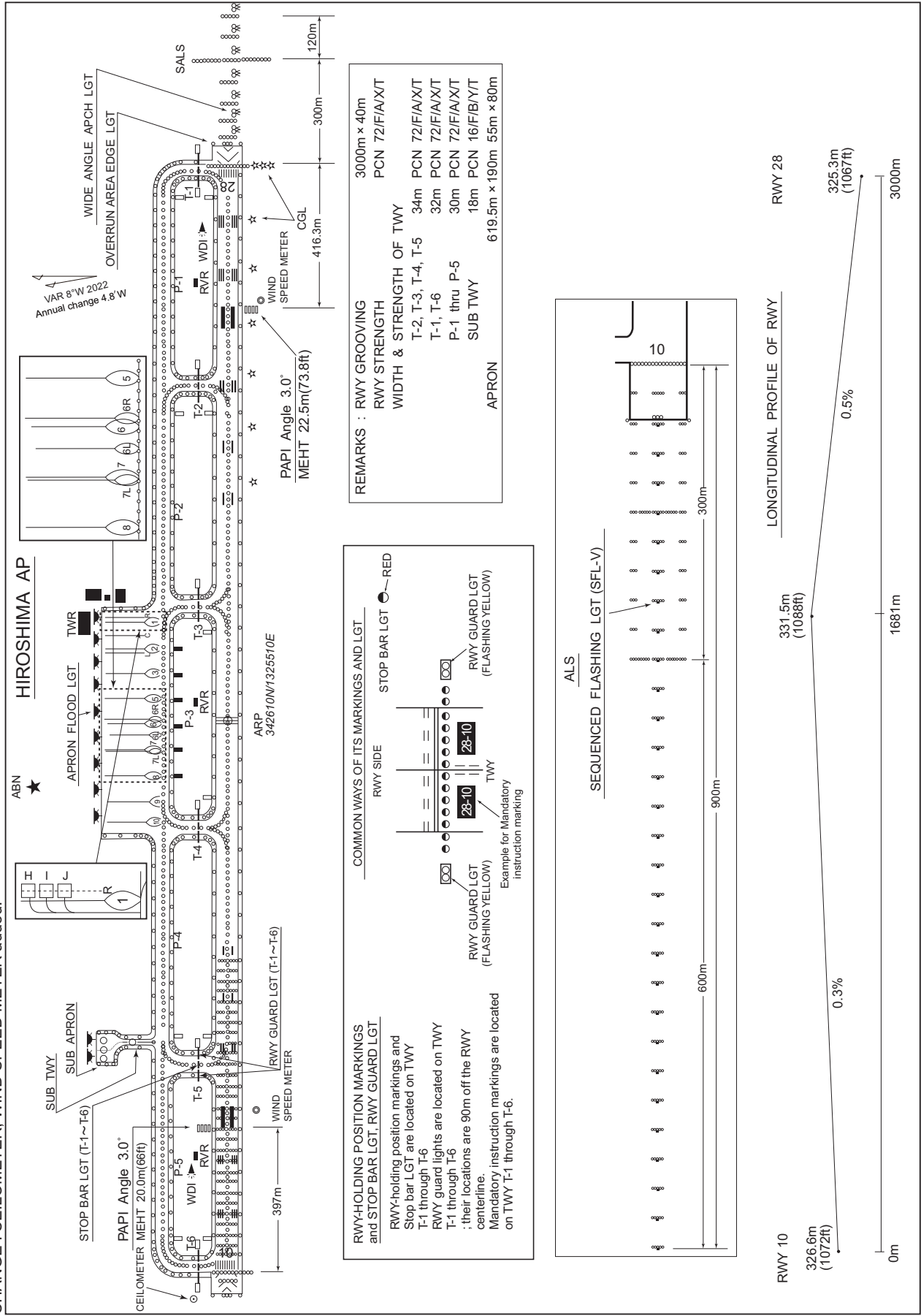


RJOA / HIROSHIMA

AD CHART

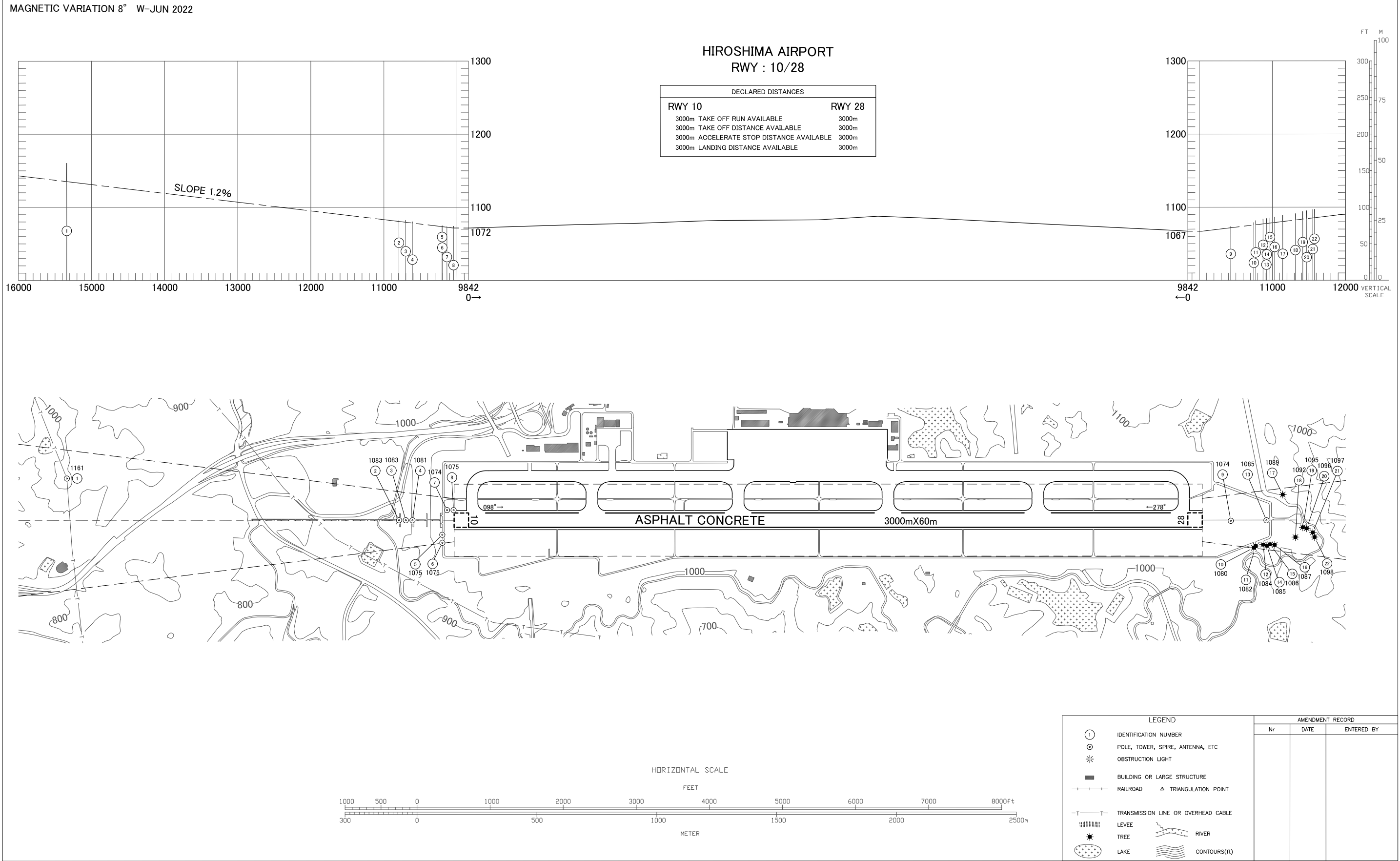
CHANGE : CEILOMETER, WIND SPEED METER added.



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AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

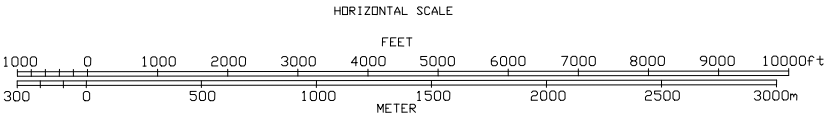


CHANGE : VAR.

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

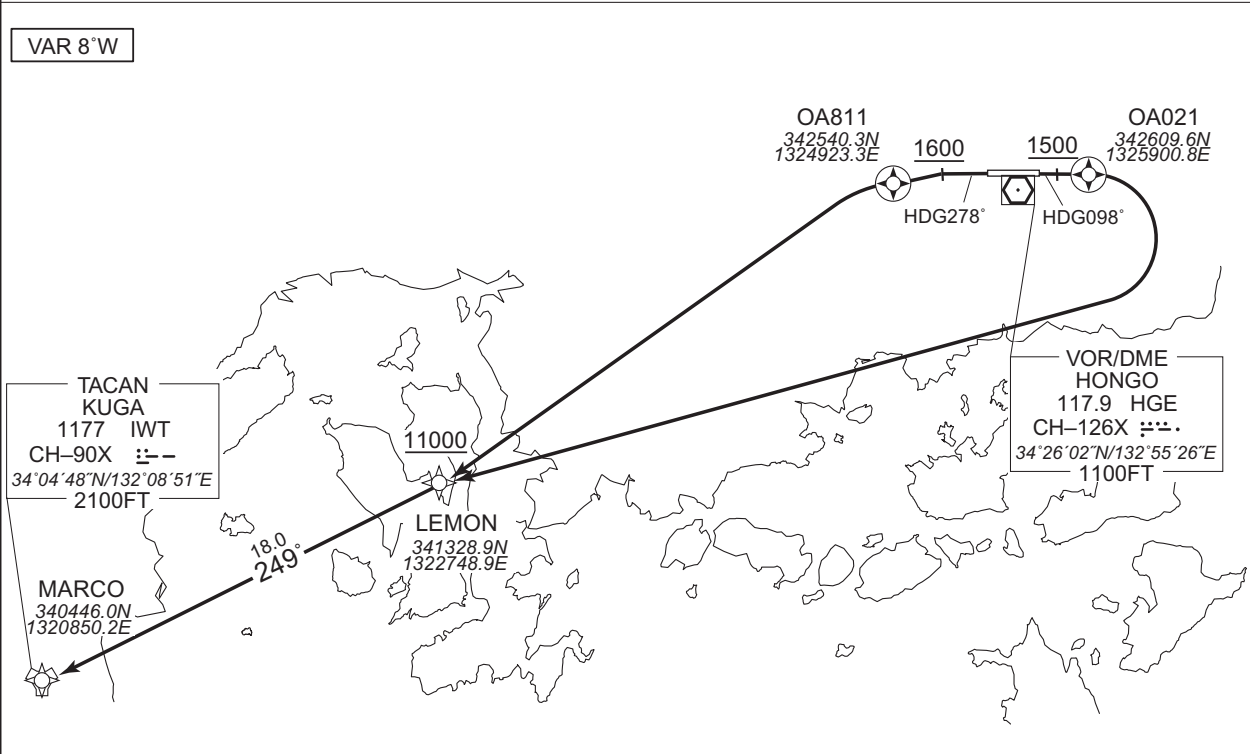
RJOA / HIROSHIMA

RNAV SID

MARCO TWO DEPARTURE

RNP1

Note GNSS required.



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	—	—	RNP1
002	DF	OA021	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	LEMON	—	—	-8.1	—	R	+11000	—	—	RNP1
004	TF	MARCO	—	249 (241.1)	-8.1	18.0	—	—	—	—	RNP1

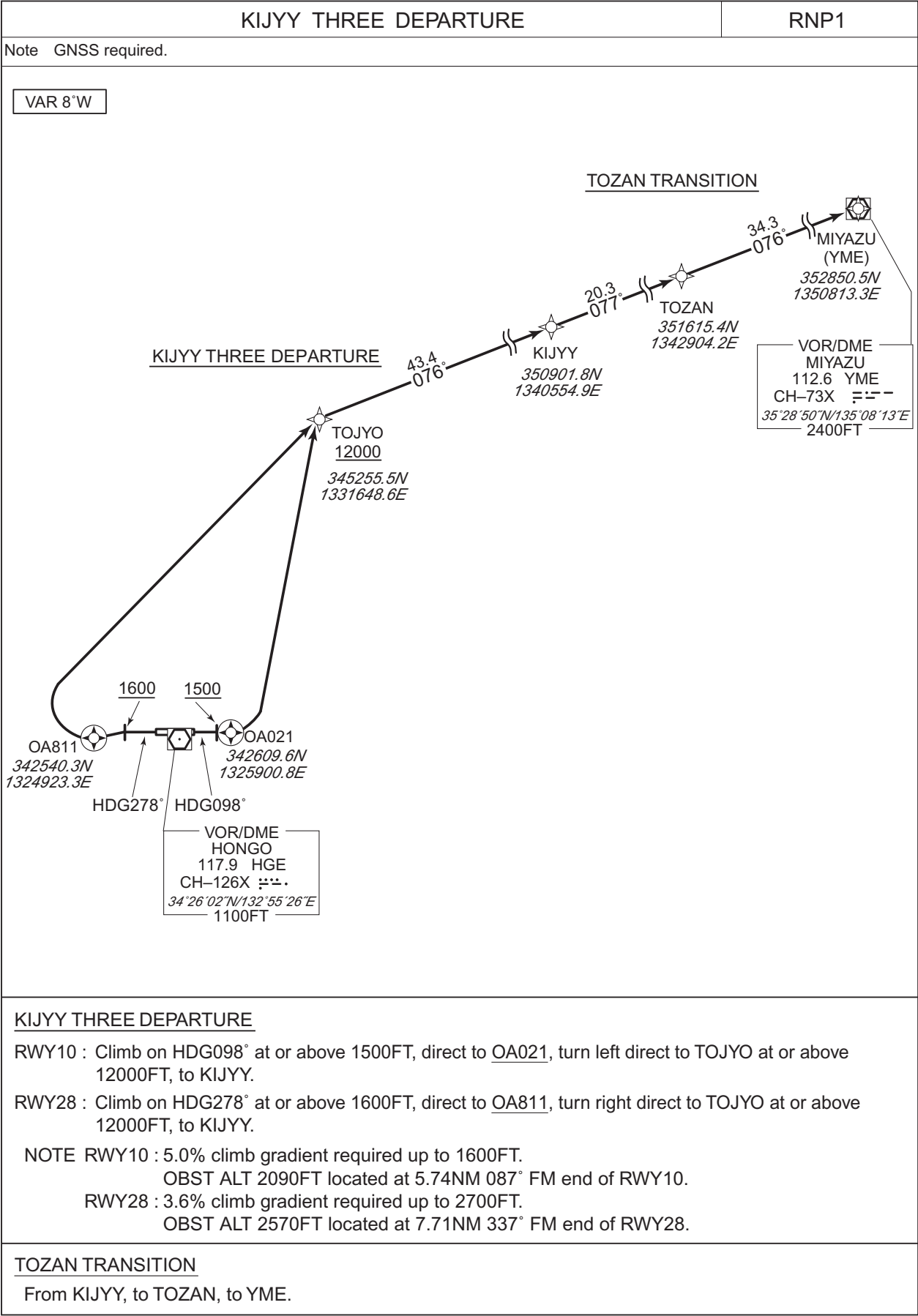
RWY28											
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	278 (270.0)	-8.1	—	—	+1600	—	—	RNP1
002	DF	OA811	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	LEMON	—	—	-8.1	—	L	+11000	—	—	RNP1
004	TF	MARCO	—	249 (241.1)	-8.1	18.0	—	—	—	—	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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	-	-	RNP1
002	DF	OA021	Y	-	-8.1	-	-	-	-	-	RNP1
003	DF	TOJYO	-	-	-8.1	-	L	+12000	-	-	RNP1
004	TF	KIJYY	-	076 (067.9)	-8.1	43.4	-	-	-	-	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	-	-	RNP1
002	DF	OA811	Y	-	-8.1	-	-	-	-	-	RNP1
003	DF	TOJYO	-	-	-8.1	-	R	+12000	-	-	RNP1
004	TF	KIJYY	-	076 (067.9)	-8.1	43.4	-	-	-	-	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	-	-	-	-	-	RNP1
002	TF	TOZAN	-	077 (069.0)	-8.1	20.3	-	-	-	-	RNP1
003	TF	YME	-	076 (068.3)	-8.1	34.3	-	-	-	-	RNP1

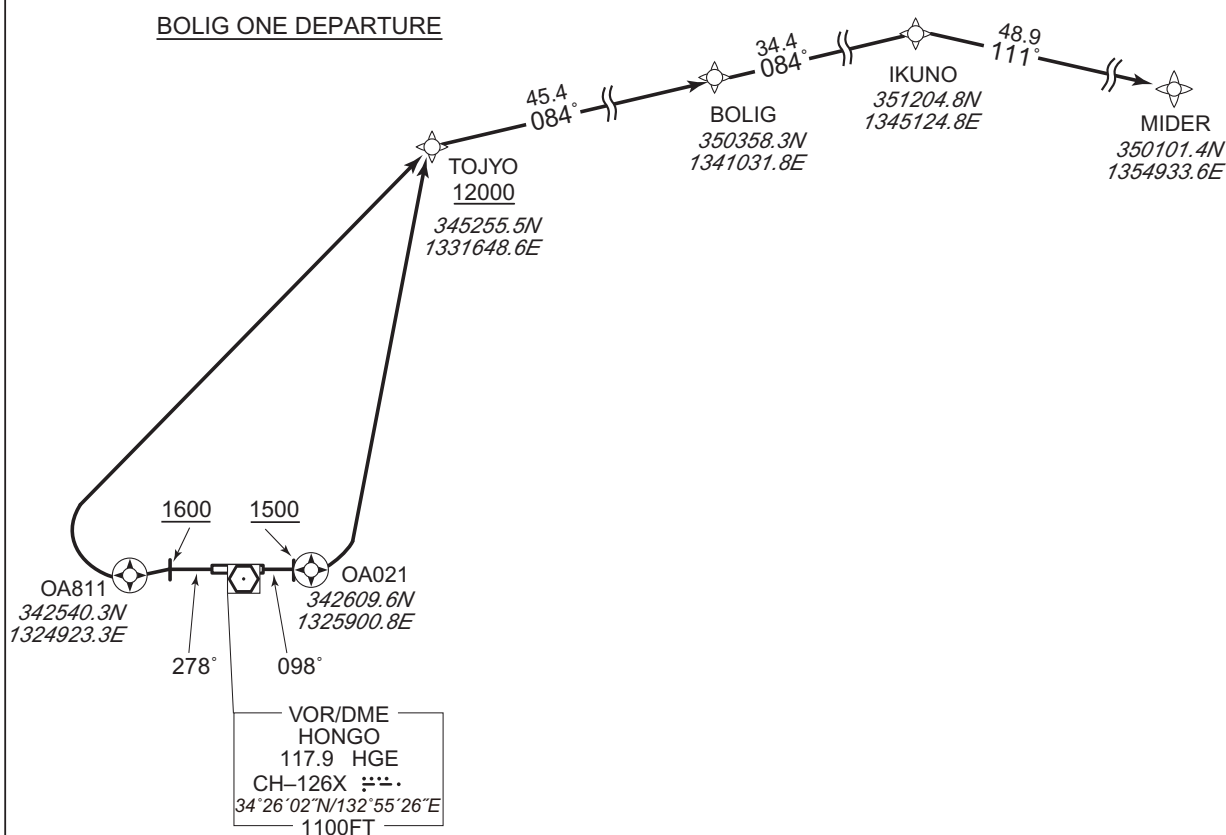
CHANGE : Navigation Specification(Basic RNP1 → RNP1).

RJOA / HIROSHIMA

RNAV SID and TRANSITION

VAR 8°W

MIDER TRANSITION



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.

From BOLIG, to IKUNO, to MIDER.

CHANGE : Critical DME. DME GAP.

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

BOLIG ONE 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)	-8.2	—	—	+1500	—	—	RNAV1
002	DF	OA021	Y	—	-8.2	—	—	—	—	—	RNAV1
003	DF	TOJYO	—	—	-8.2	—	L	+12000	—	—	RNAV1
004	TF	BOLIG	—	084 (075.7)	-8.2	45.4	—	—	—	—	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)	-8.2	—	—	+1600	—	—	RNAV1
002	DF	OA811	Y	—	-8.2	—	—	—	—	—	RNAV1
003	DF	TOJYO	—	—	-8.2	—	R	+12000	—	—	RNAV1
004	TF	BOLIG	—	084 (075.7)	-8.2	45.4	—	—	—	—	RNAV1

MIDER 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	BOLIG	—	—	-8.2	—	—	—	—	—	RNAV1
002	TF	IKUNO	—	084 (076.2)	-8.2	34.4	—	—	—	—	RNAV1
003	TF	MIDER	—	111 (102.8)	-8.2	48.9	—	—	—	—	RNAV1

CHANGE : New PROC.

STANDARD DEPARTURE CHART -INSTRUMENT

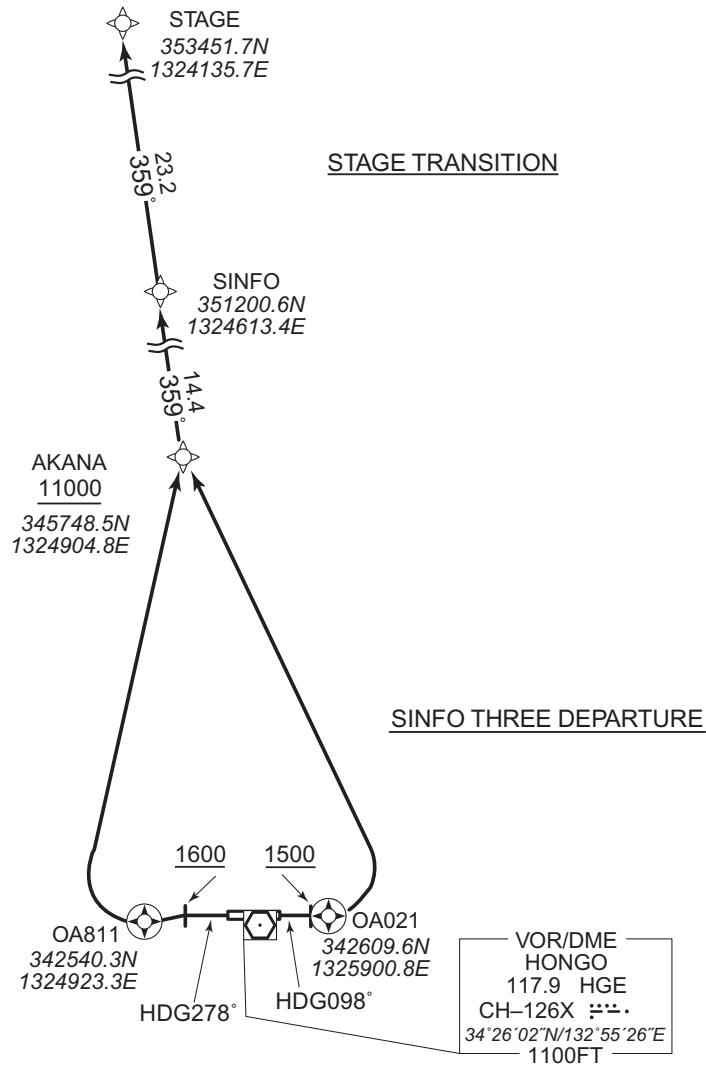
RJOA / HIROSHIMA

RNAV SID and TRANSITION

SINFO THREE DEPARTURE	RNP1
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Note GNSS required.

VAR 8°W



SINFO THREE 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.

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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	-	-	RNP1
002	DF	OA021	Y	-	-8.1	-	-	-	-	-	RNP1
003	DF	AKANA	-	-	-8.1	-	L	+11000	-	-	RNP1
004	TF	SINFO	-	359 (350.7)	-8.1	14.4	-	-	-	-	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	-	-	RNP1
002	DF	OA811	Y	-	-8.1	-	-	-	-	-	RNP1
003	DF	AKANA	-	-	-8.1	-	R	+11000	-	-	RNP1
004	TF	SINFO	-	359 (350.7)	-8.1	14.4	-	-	-	-	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	-	-	-	-	-	RNP1
002	TF	STAGE	-	359 (350.6)	-8.1	23.2	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

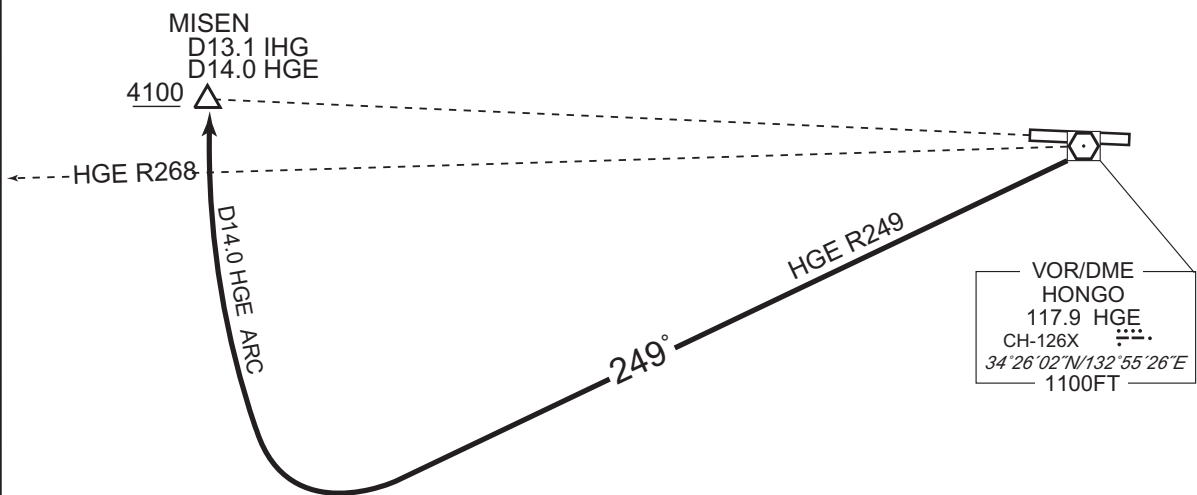
STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA

STAR

HONGO ARRIVAL

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



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.

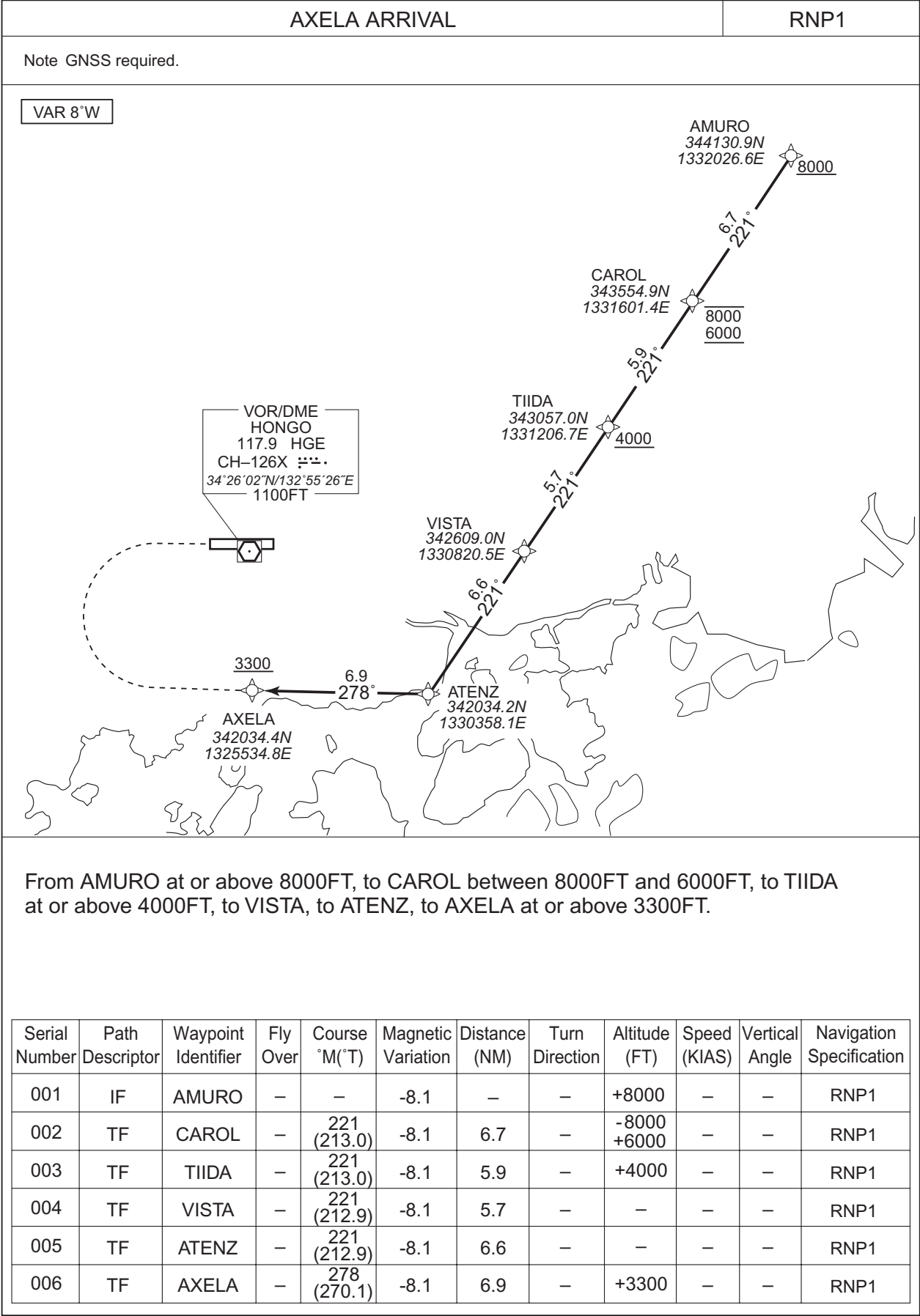
CHANGE : Description of VAR.

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 / HIROSHIMA

RNAV STAR RWY10



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMA

RNAV STAR RWY10

DEMIO ARRIVAL

RNP1

Note GNSS required.

VAR 8°W

The chart illustrates the DEMIO ARRIVAL RNAV STAR RWY10. It shows a sequence of waypoints: AMURO (344130.9N, 1332026.6E) at 8000 FT, MIATA (343904.6N, 1331320.6E) at 7000 FT, and DEMIO (343248.5N, 1325512.5E) at 5500 FT. The flight path starts at AMURO, proceeds to MIATA with a distance of 6.3 NM and a course of 255°, then continues to DEMIO with a distance of 16.2 NM and a course of 255°. A VOR/DME station HONGO (117.9 HGE, CH-126X) is located near DEMIO at 1100 FT. A note indicates GNSS is required. A box specifies VAR 8°W.

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

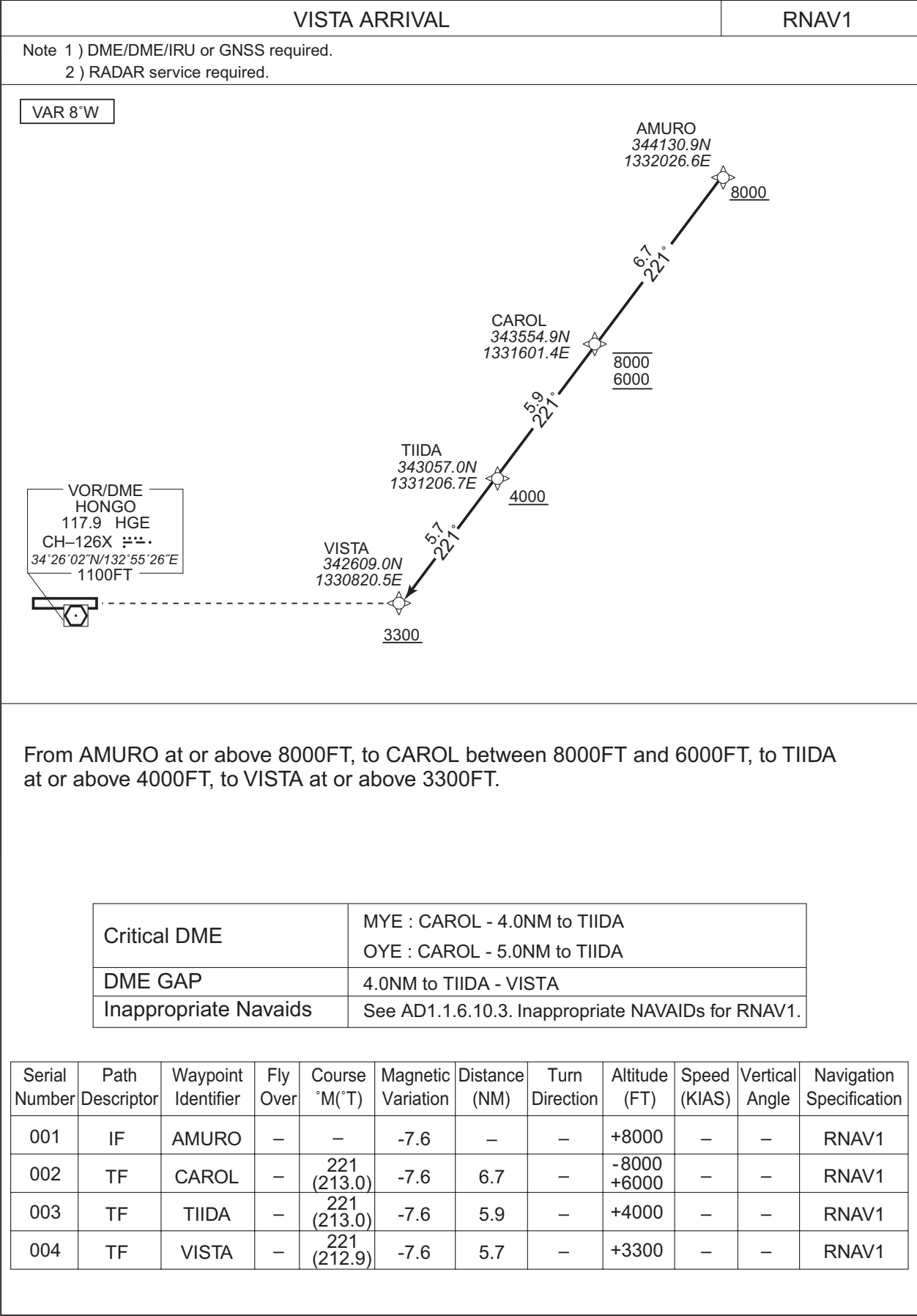
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AMURO	—	—	-8.1	—	—	+8000	—	—	RNP1
002	TF	MIATA	—	255 (247.4)	-8.1	6.3	—	+7000	—	—	RNP1
003	TF	DEMIO	—	255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

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV STAR RWY28



STANDARD ARRIVAL CHART -INSTRUMENT

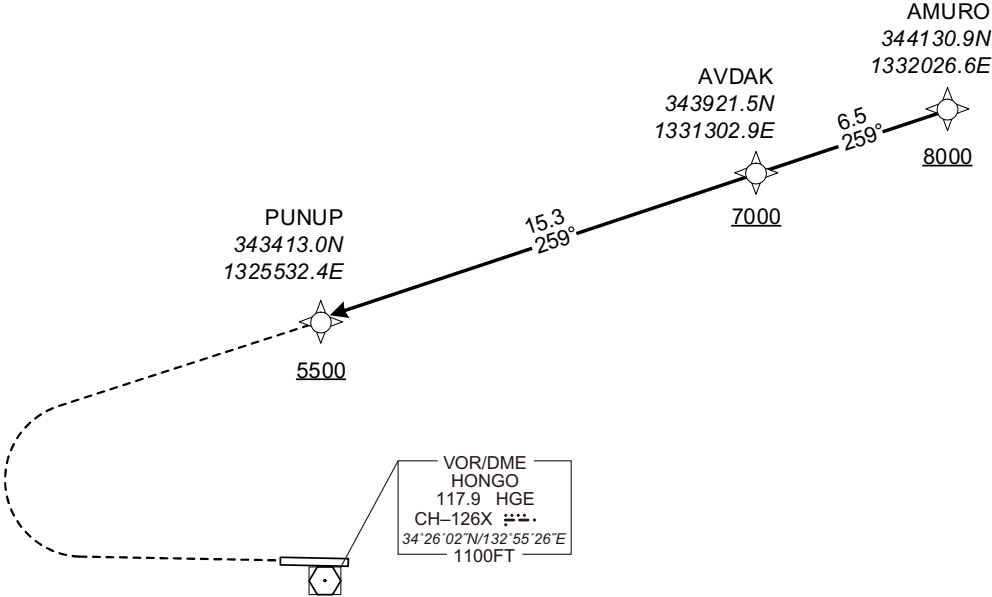
RJOA / HIROSHIMA

RNAV STAR RWY10

PUNUP ARRIVAL	RNP1
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Note GNSS required.

VAR 8°W



From AMURO at or above 8000FT, to AVDAK at or above 7000FT, to PUNUP at or above 5500FT.

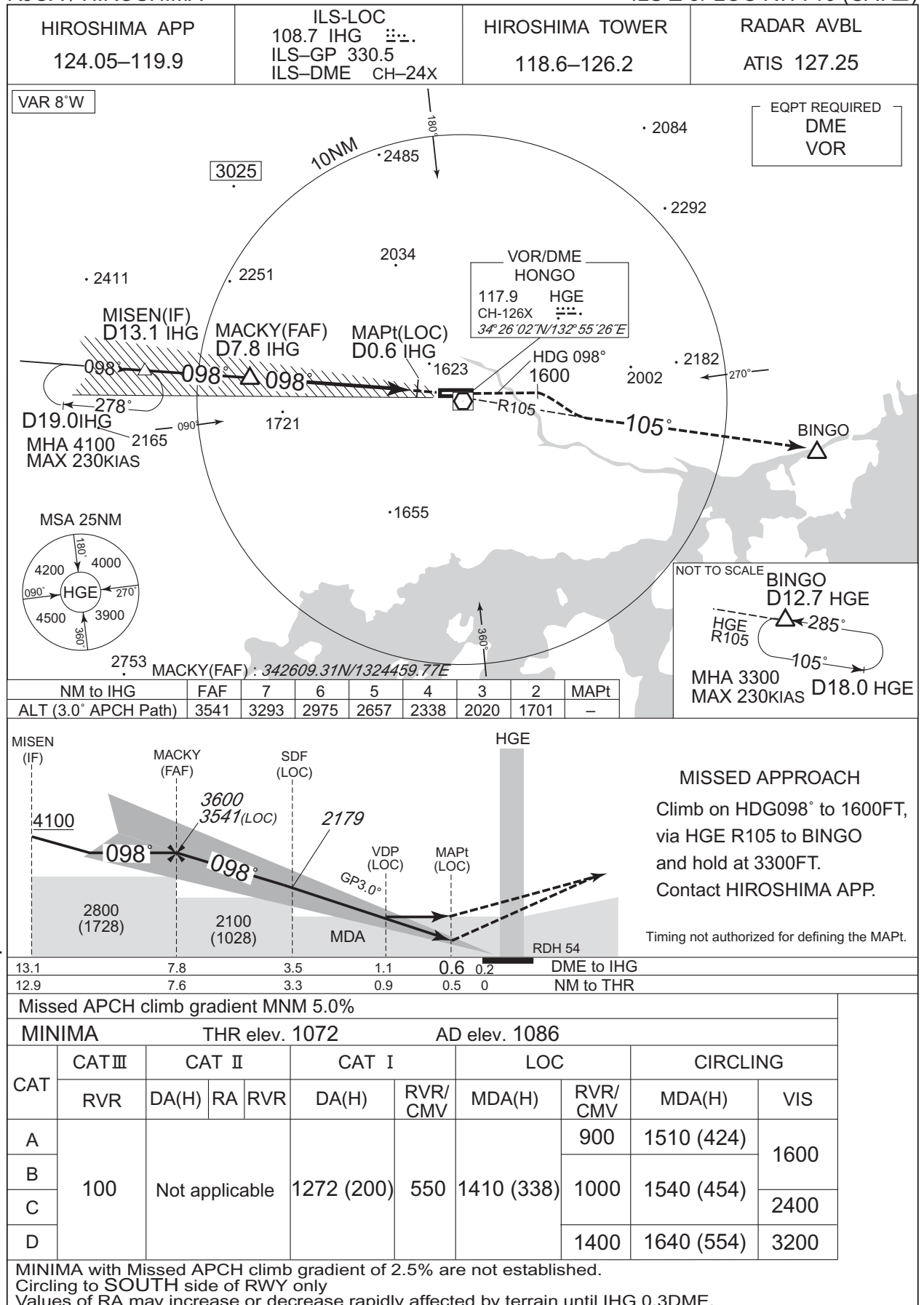
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AMURO	—	—	-8.1	—	—	+8000	—	—	RNP1
002	TF	AVDAK	—	259 (250.5)	-8.1	6.5	—	+7000	—	—	RNP1
003	TF	PUNUP	—	259 (250.4)	-8.1	15.3	—	+5500	—	—	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

ILS Z or LOC RWY10 (CAT III)

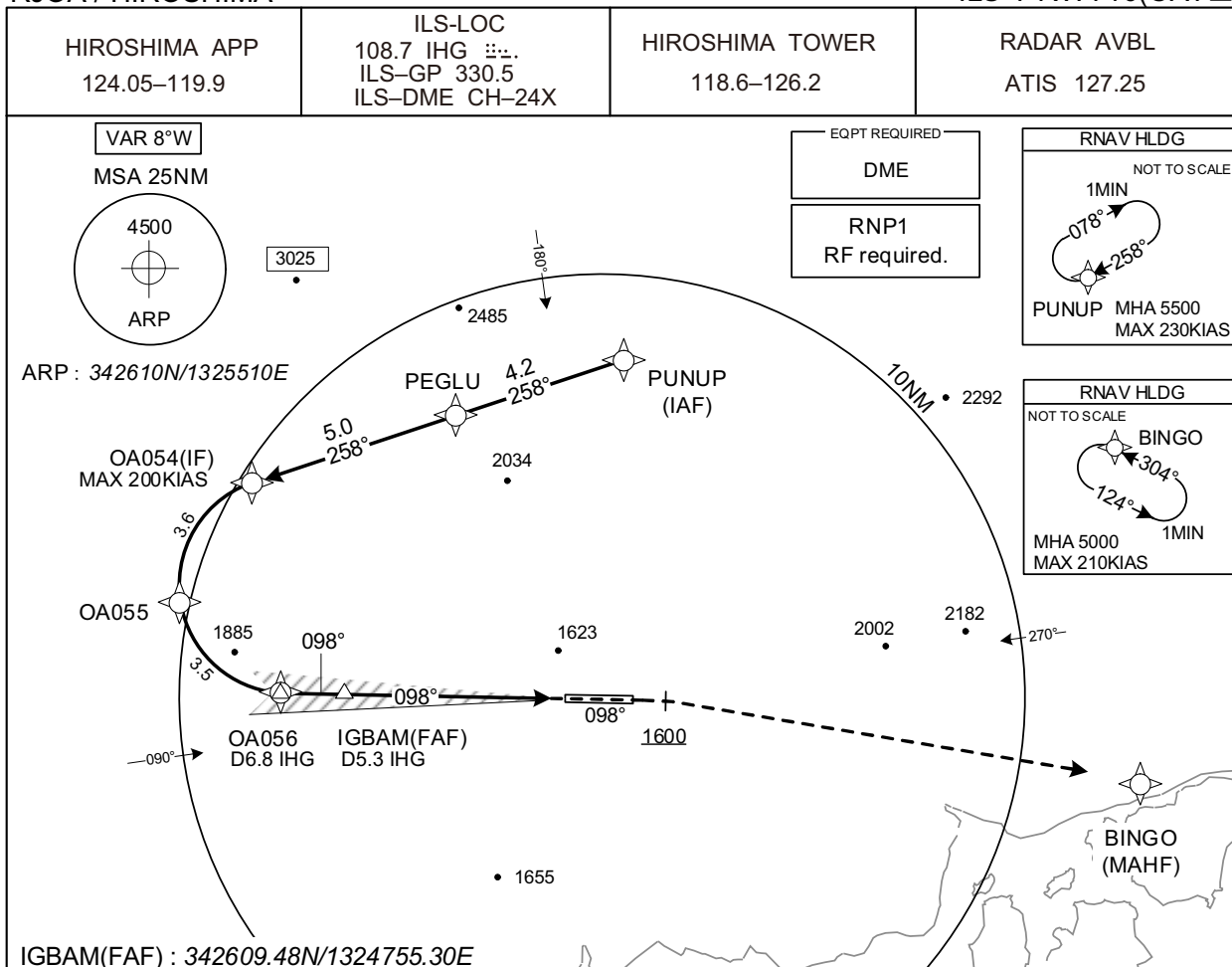


CHANGE : PROC renamed. Description of VAR.

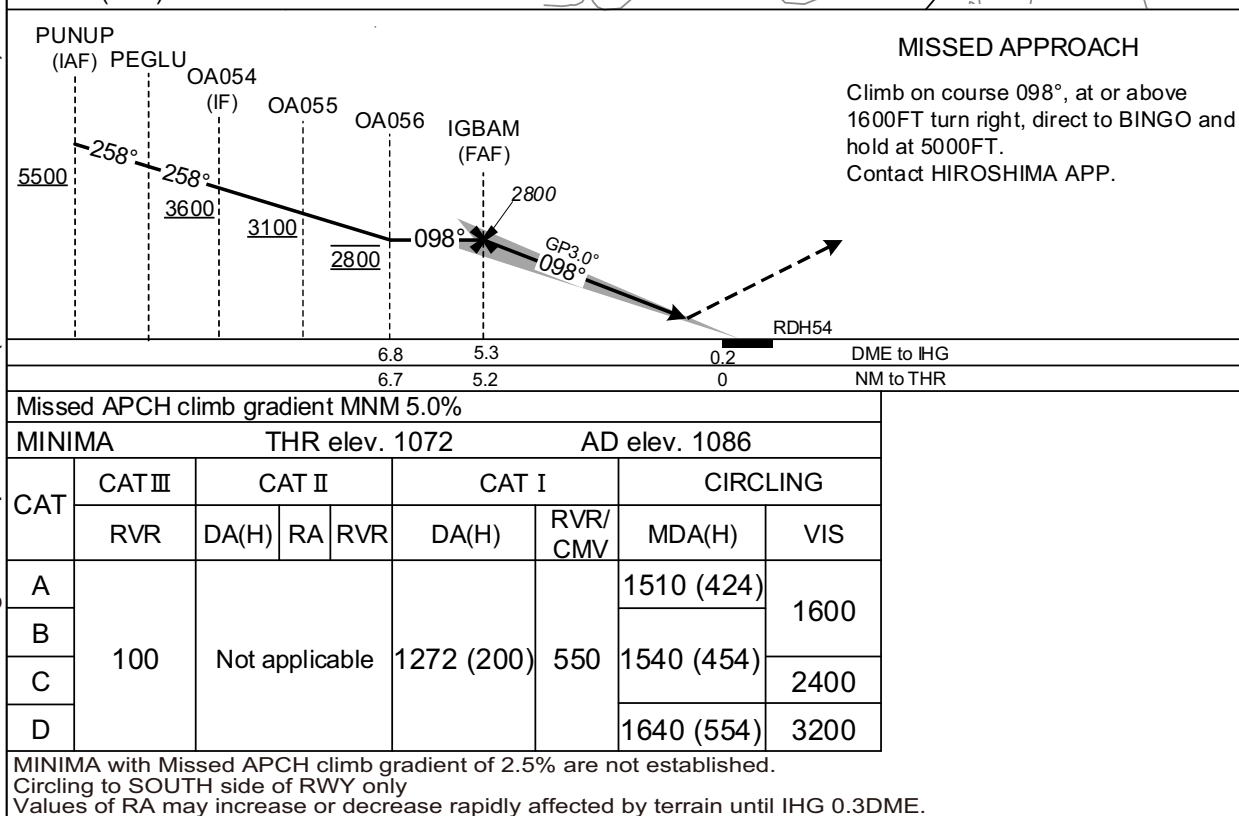
INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

ILS Y RWY10(CATⅢ)



CHANGE : Navigation Specification(Basic RNP1 → RNP1).



INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

ILS Y RWY10(CATⅢ)

CHANGE : Correction of misdescription(HLDG speed, Minimum ALT at BINGO).

Coding Table

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	PUNUP	-	-	-8.1	-	-	+5500	-	-	RNP1
002	TF	PEGLU	-	258 (250.3)	-8.1	4.2	-	-	-	-	RNP1
003	TF	OA054	-	258 (250.2)	-8.1	5.0	-	+3600	-200	-	RNP1
004	RF Center: OARF3 r=2.55NM	OA055	-	-	-8.1	3.6	L	+3100	-	-	RNP1
005	RF Center: OARF3 r=2.55NM	OA056	-	-	-8.1	3.5	L	2800	-	-	RNP1
001	CA	-	-	098 (090.0)	-8.1	-	-	+1600	-	-	RNP1
002	DF	BINGO	-	-	-8.1	-	R	5000	-	-	RNP1

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	PUNUP	258 (250.3)	-8.1	1.0 (-14000)	R	5500	FL140	-230 (-14000)	RNP1
Hold	BINGO	304 (296.1)	-8.1	1.0 (-14000)	L	5000	FL140	-210 (-14000)	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
PUNUP	343412.97N / 1325532.36E	OARF3	342842.60N / 1324606.23E
PEGLU	343248.19N / 1325045.55E		
OA054	343106.85N / 1324503.74E		
OA055	342814.80N / 1324304.26E		
OA056	342609.36N / 1324606.51E		
BINGO	342425.72N / 1331040.68E		

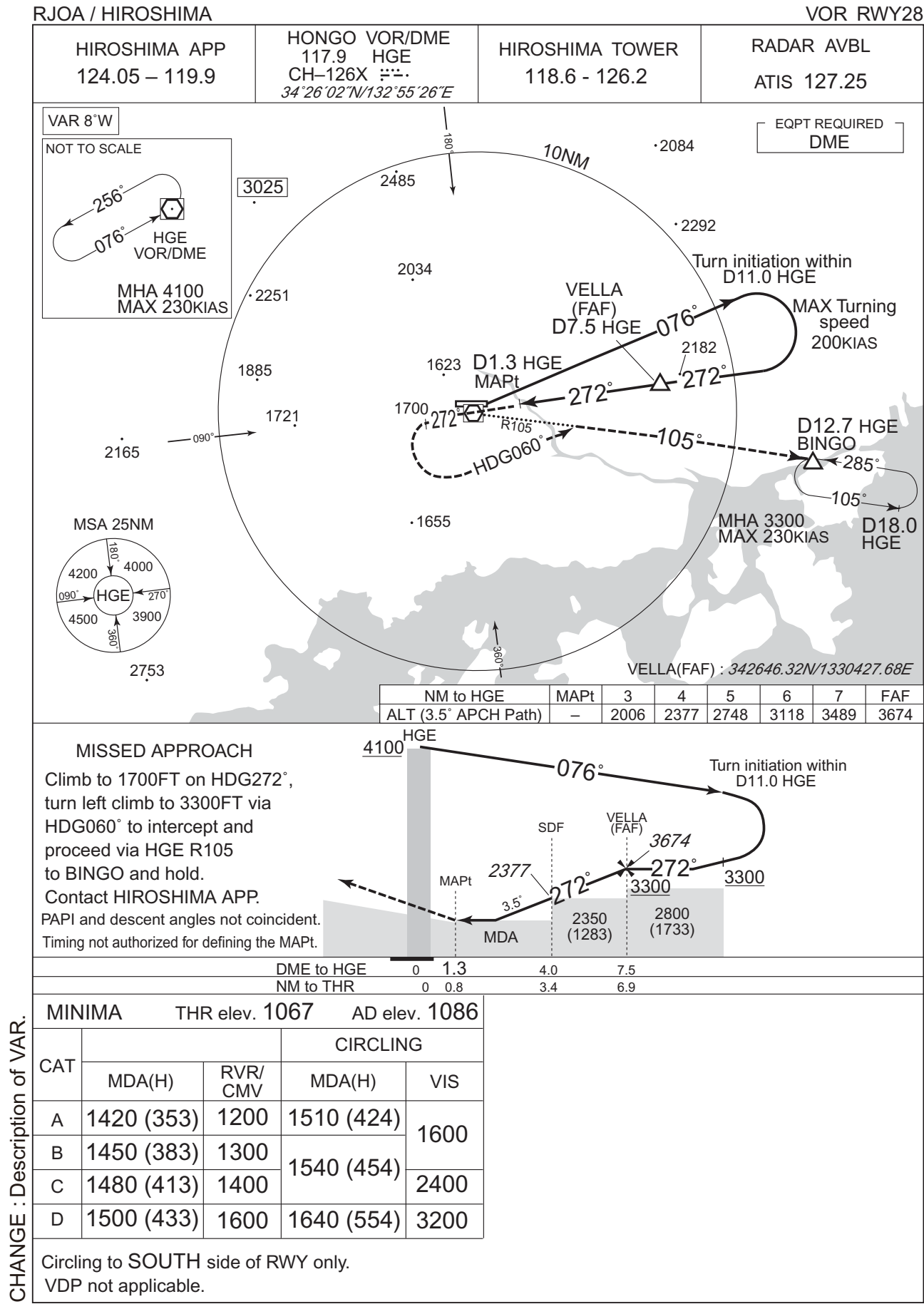
INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

VOR RWY10



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP RWY28



RJOA / HIROSHIMA

RNP Z RWY10(AR)



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

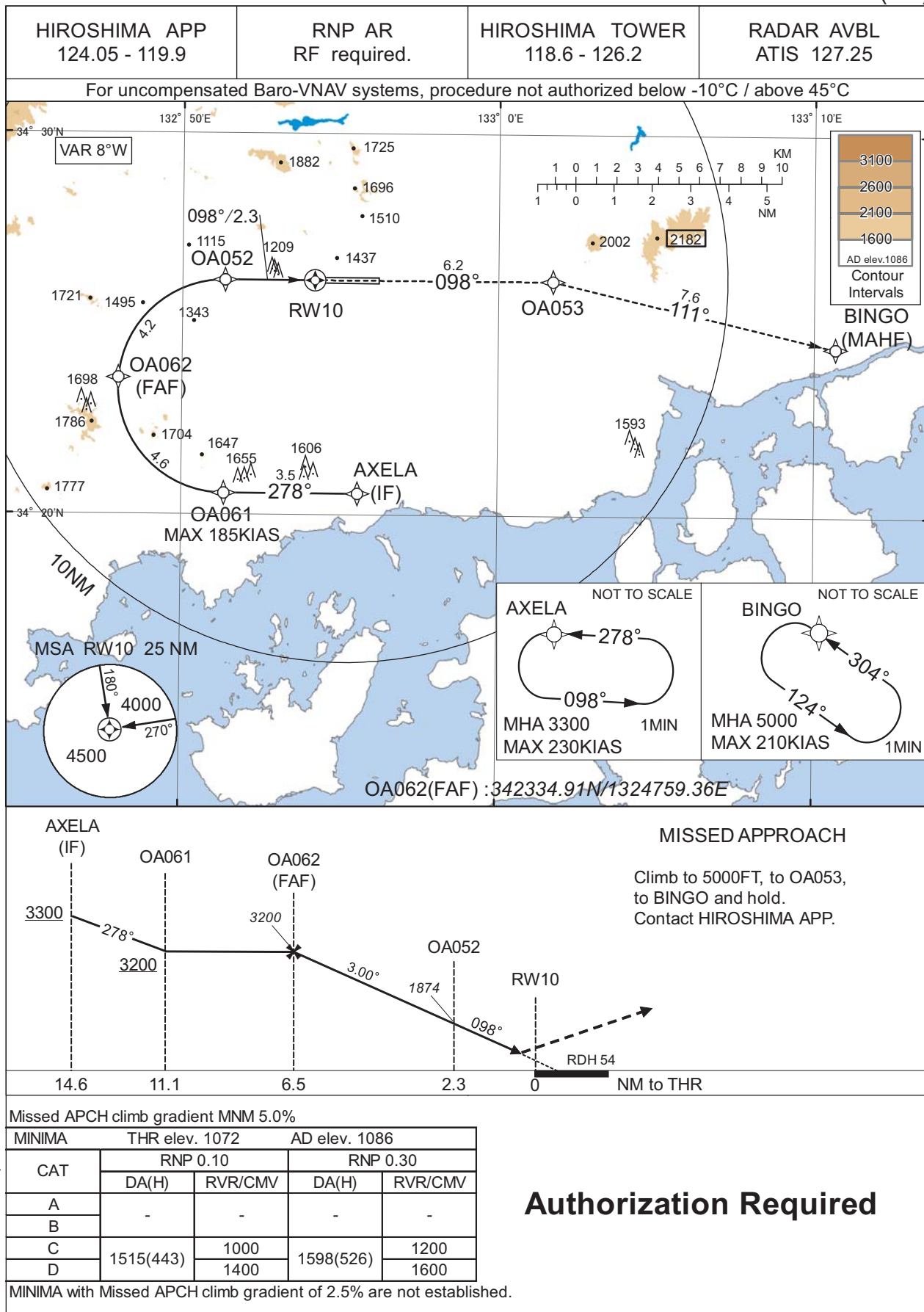
Waypoint Coordinates

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		

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP Y RWY10(AR)



CHANGE : Description of VAR.

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		

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

VAR 8°W (2022)



CENTER : 342602N/1325458E (RADAR SITE)

CHANGE : VAR.