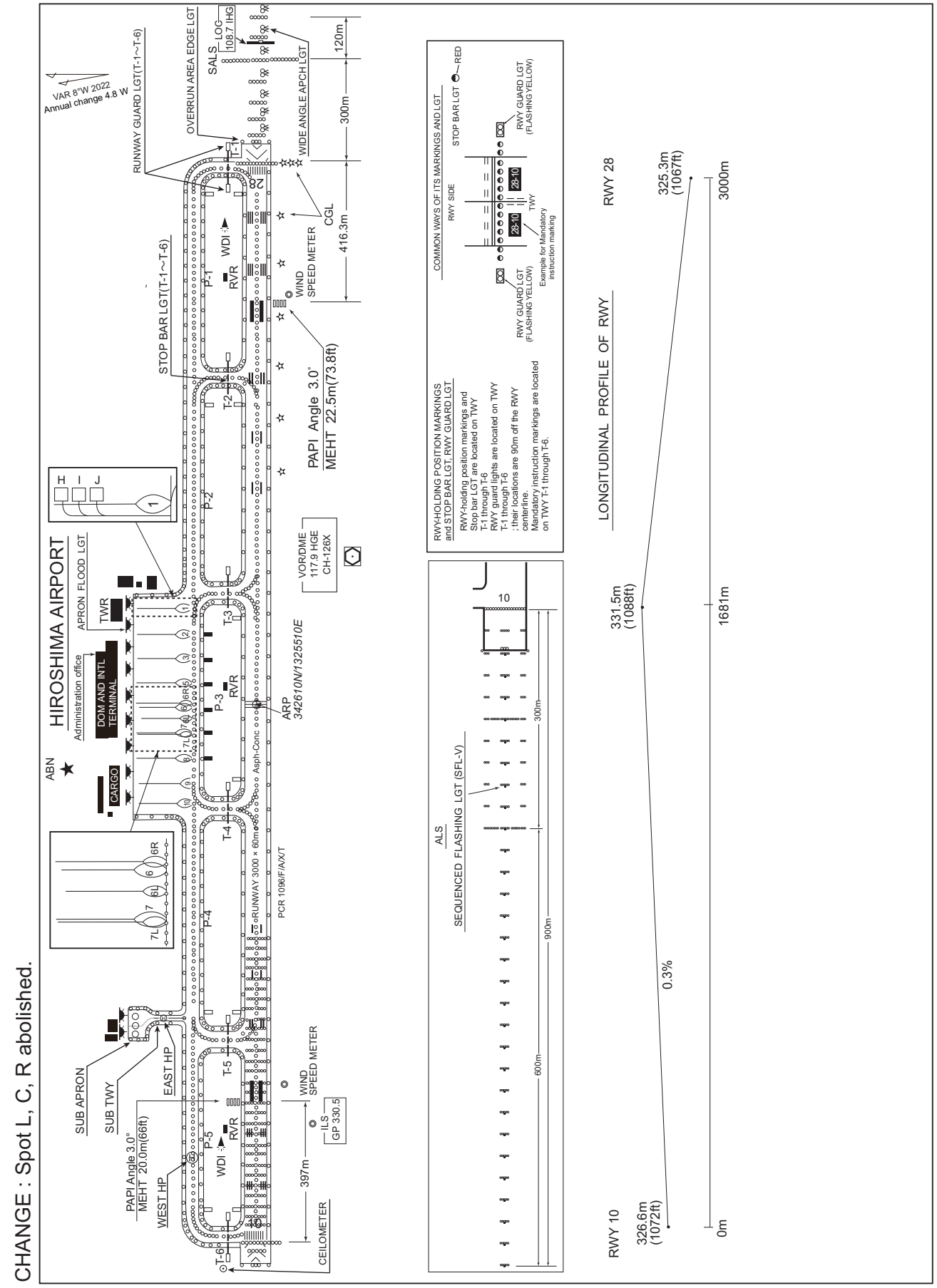
RJOA / HIROSHIMA AD CHART



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AERODROME OBSTACLE CHART-ICAO

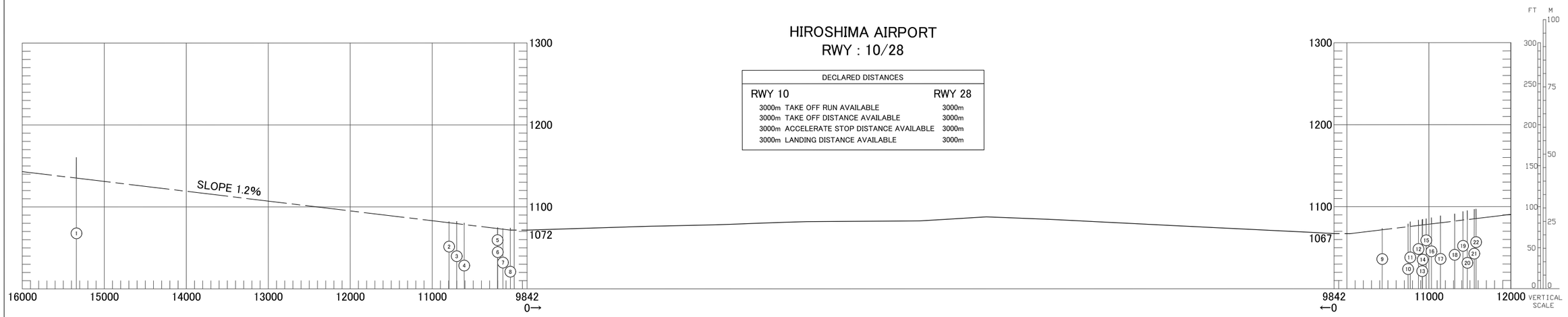
TYPE A (OPERATING LIMITATIONS)

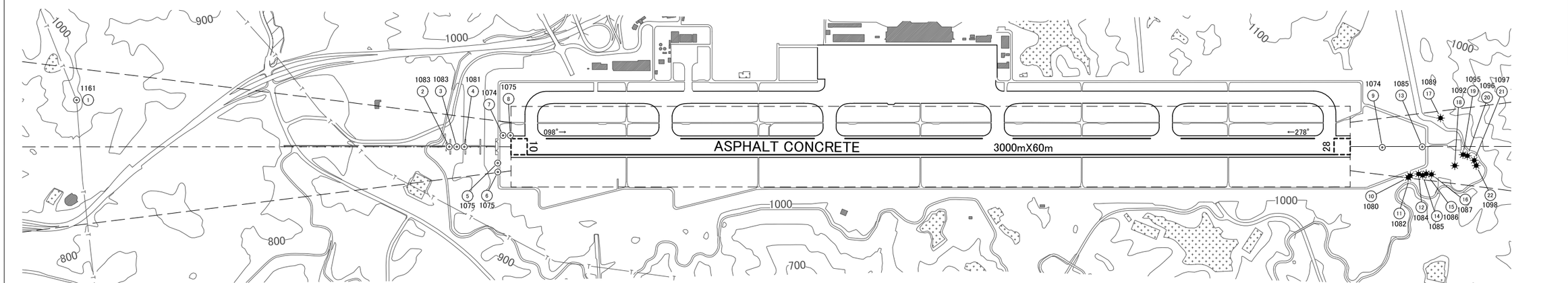
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 8° W-JUN 2022

HIROSHIMA AIRPORT
RWY : 10/28

DECLARED DISTANCES	
RWY 10	RWY 28
3000m TAKE OFF RUN AVAILABLE	3000m
3000m TAKE OFF DISTANCE AVAILABLE	3000m
3000m ACCELERATE STOP DISTANCE AVAILABLE	3000m
3000m LANDING DISTANCE AVAILABLE	3000m





HORIZONTAL SCALE

FEET

1000 500 0 1000 2000 3000 4000 5000 6000 7000 8000ft

300 0 500 1000 1500 2000 2500m

METER

LEGEND	
①	IDENTIFICATION NUMBER
⊙	POLE, TOWER, SPIRE, ANTENNA, ETC
✳	OBSTRUCTION LIGHT
▬	BUILDING OR LARGE STRUCTURE
─┼─	RAILROAD
△	TRIANGULATION POINT
─T─T─	TRANSMISSION LINE OR OVERHEAD CABLE
▥	LEVEE
✱	TREE
⬭	LAKE
≈	RIVER
≈	CONTOURS(ft)

AMENDMENT RECORD		
Nr	DATE	ENTERED BY

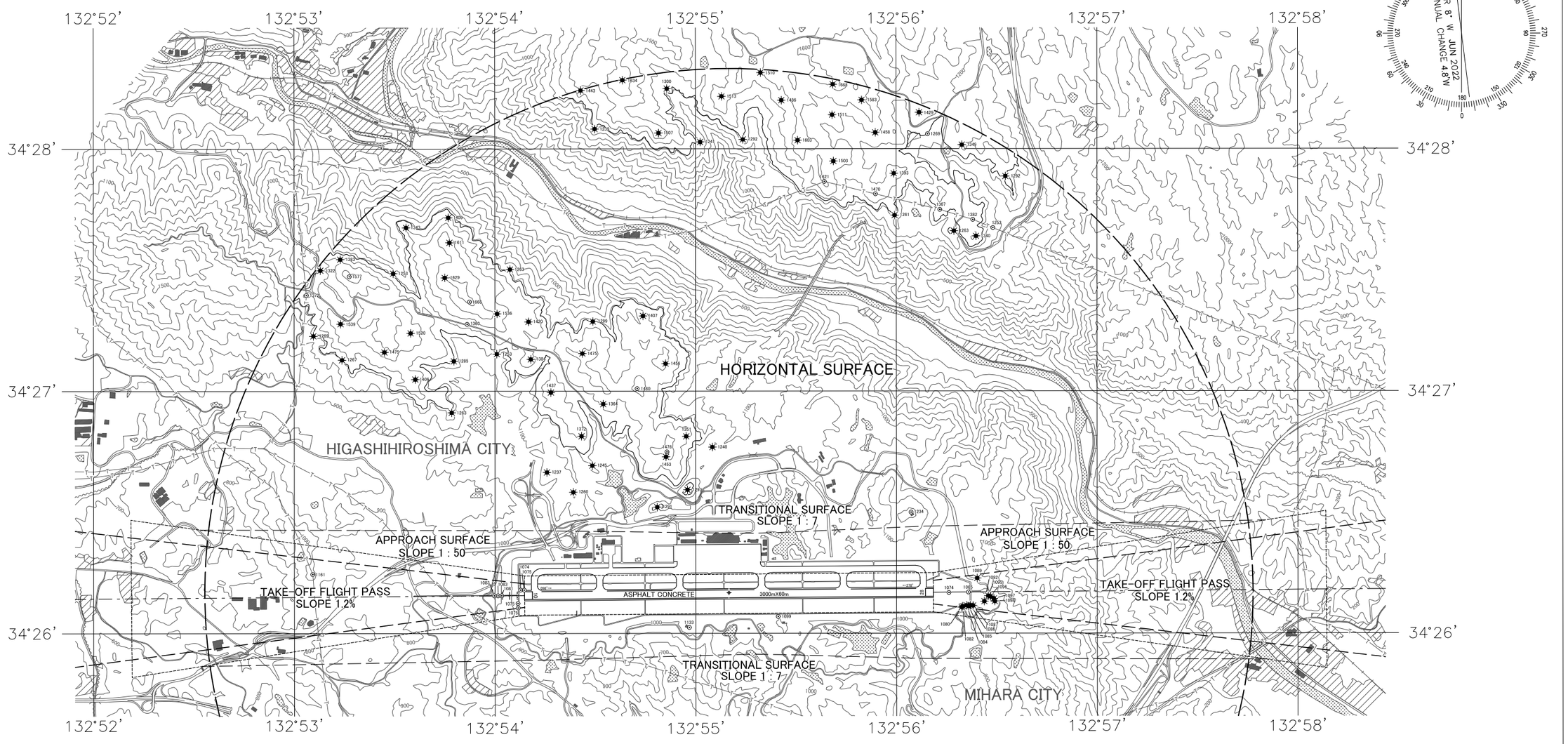
CHANGE : VAR.

AERODROME OBSTACLE CHART-ICAO

TYPE B (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME ELEVATION 1086ft ARP



HORIZONTAL SCALE

FEET
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000ft

METER
300 0 500 1000 1500 2000 2500 3000m

LEGEND

- AERODROME REFERENCE POINT 34°26'10"N 132°55'10"E
- POLE, TOWER, SPIRE, ANTENNA, ETC
- AERONAUTICAL GROUND LIGHT
- OBSTRUCTION LIGHT
- BUILDING OR LARGE STRUCTURE
- RAILROAD
- TERRAIN PENETRATING OBSTACLE PLANE
- TRANSMISSION LINE OR OVERHEAD CABLE
- LEVEE
- TREE
- RIVER
- LAKE
- CONTOURS(ft)

AMENDMENT RECORD		
NO	DATE	ENTERED BY

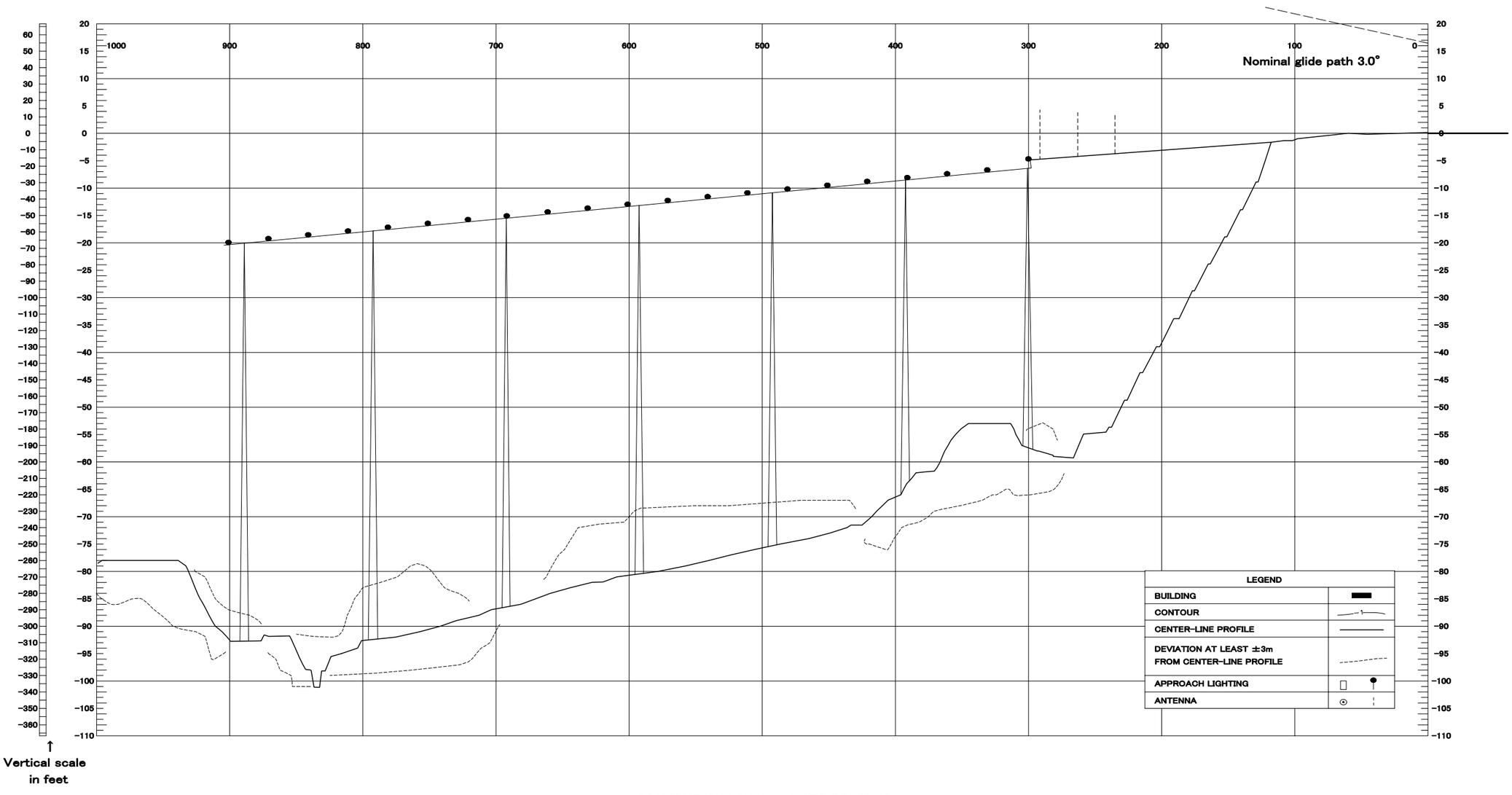
CHANGE : VAR.

PRECISION APPROACH TERRAIN CHART-ICAO

PRICISION APPROACH TERRAIN CHART

DISTANCES AND HEIGHTS IN METERS

RWY 10



CONTOUR AND HEIGHTS ARE RELATED
TO ELEVATION OF RWY THR

STANDARD DEPARTURE CHART - INSTRUMENT

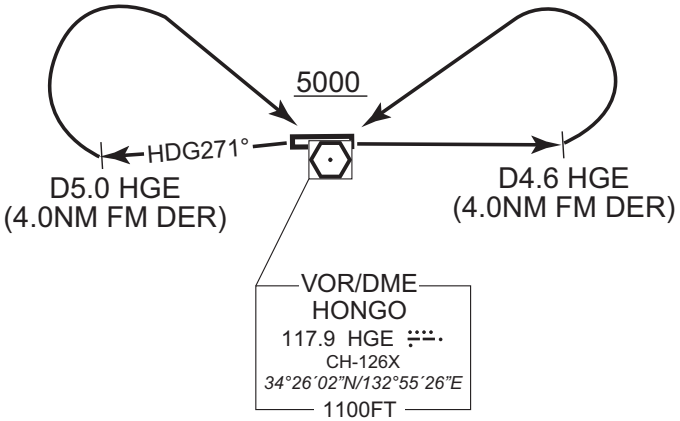
RJOA / HIROSHIMA SID

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

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.



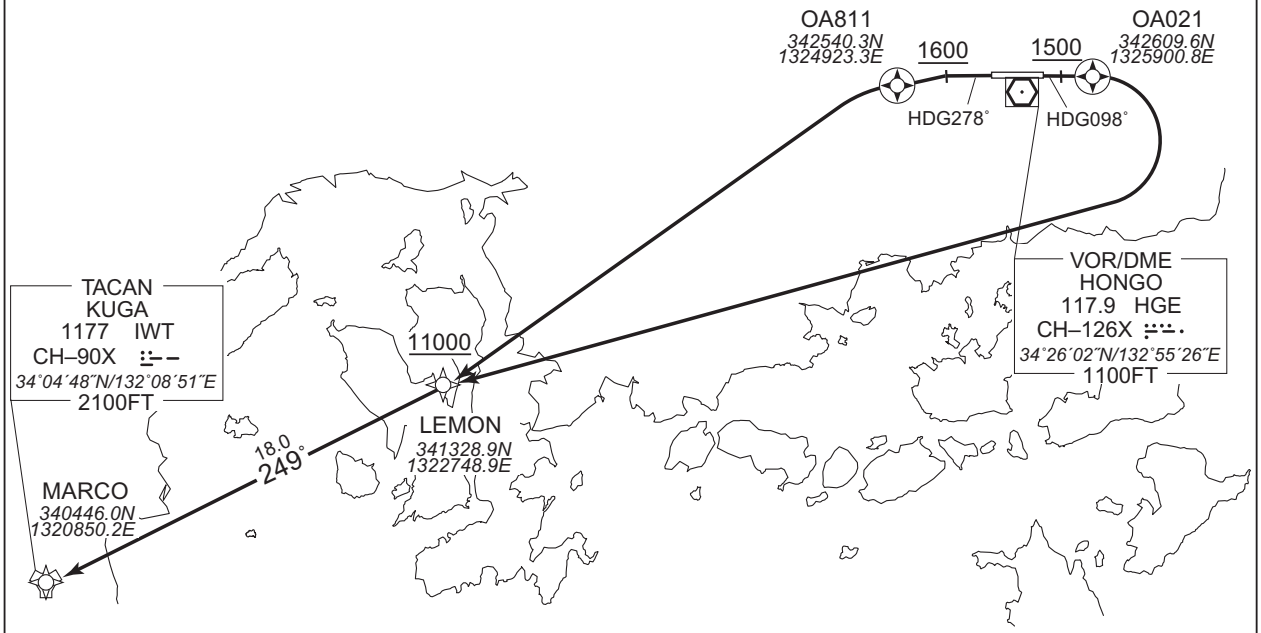
STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA — RNAV SID

MARCO TWO DEPARTURE — RNP1

Note GNSS required.

VAR 8˚W



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.

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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

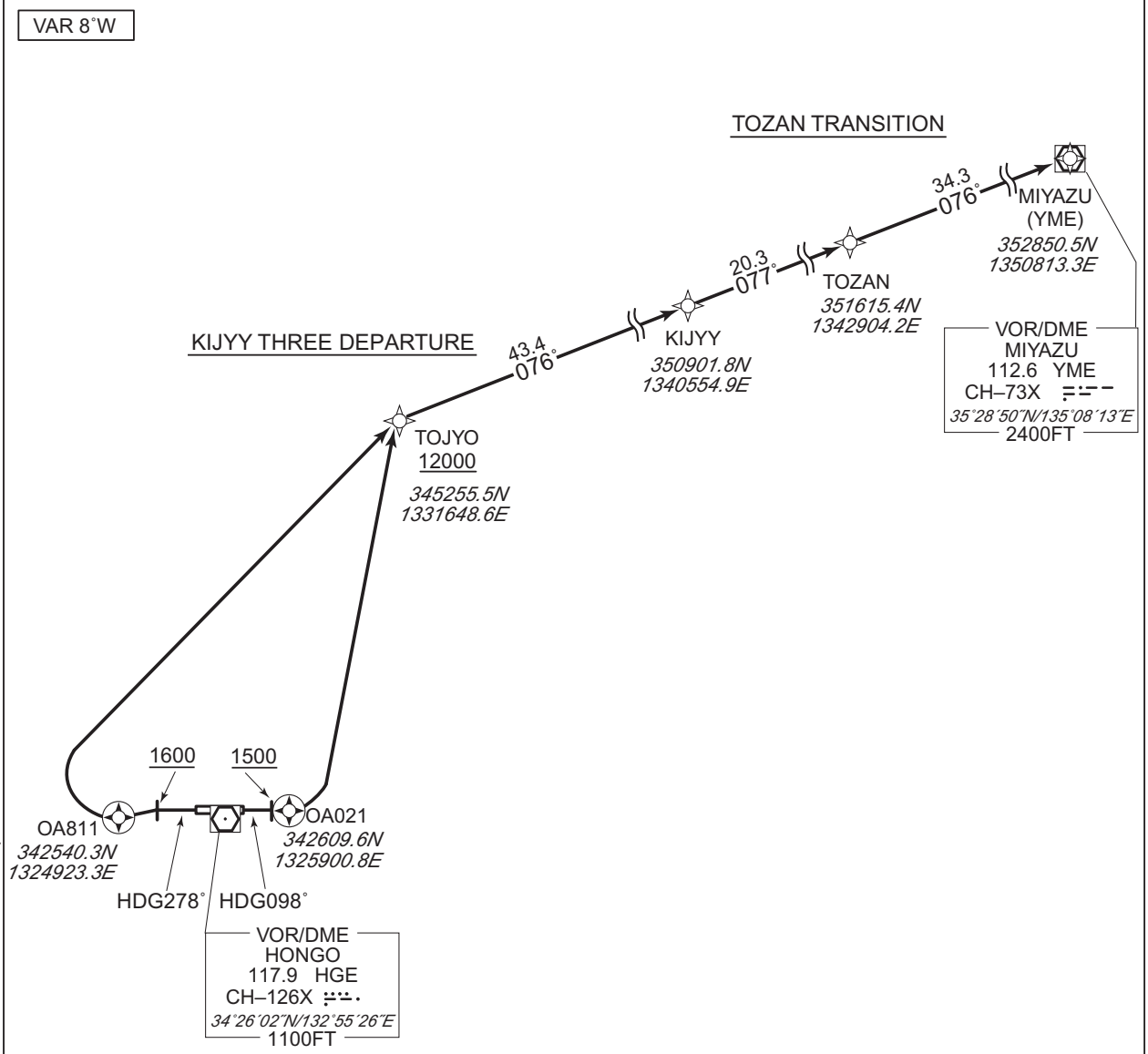
STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA — RNAV SID and TRANSITION

KIJYY THREE DEPARTURE	RNP1

Note GNSS required.

CHANGE : Navigation Specification(Basic RNP1 → RNP1).



KIJYY THREE DEPARTURE

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

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

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.

TOZAN TRANSITION

From KIJYY, to TOZAN, to YME.

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

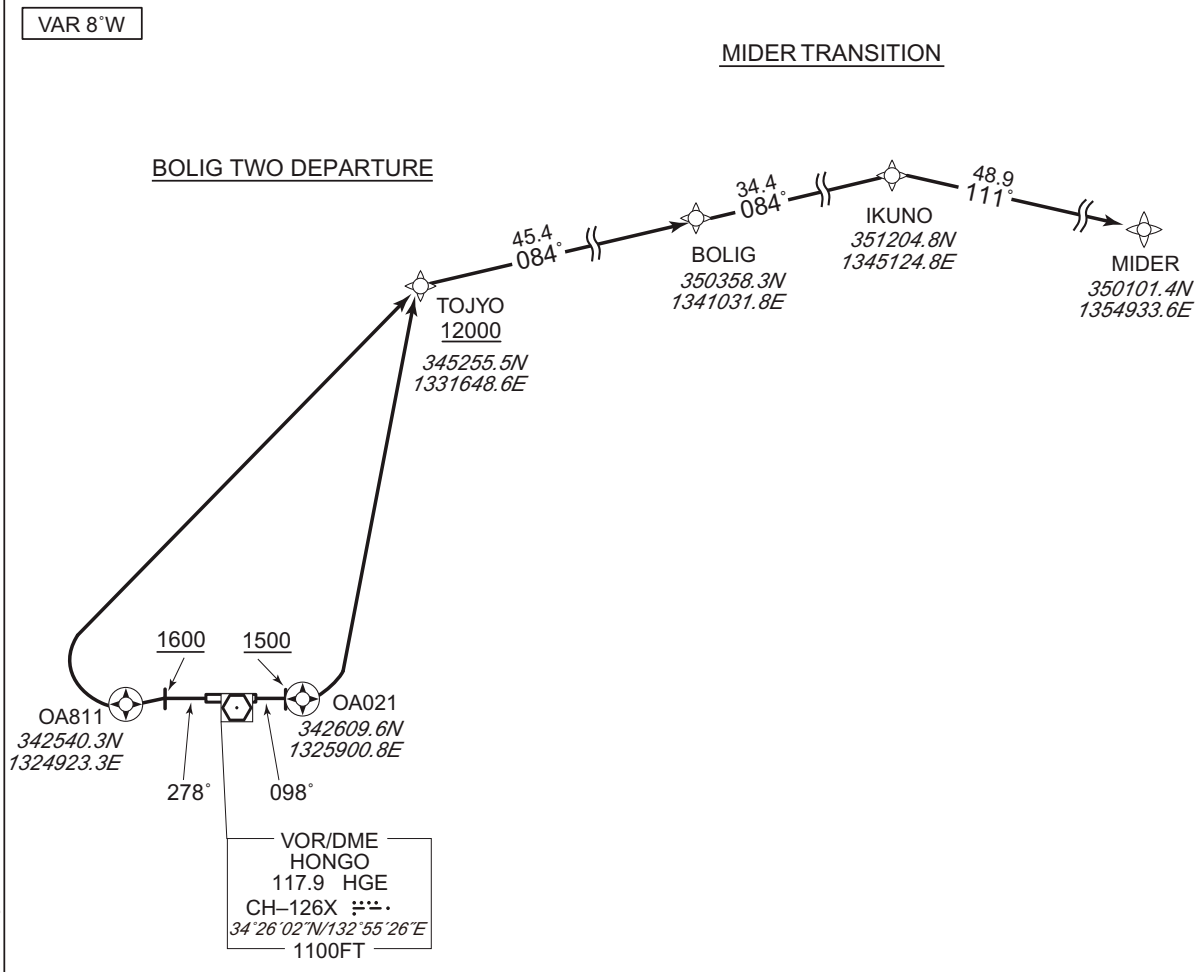
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KIJYY	-	-	-8.1	-	-	-	-	-	RNP1
002	TF	TOZAN	-	077 (069.0)	-8.1	20.3	-	-	-	-	RNP1
003	TF	YME	-	076 (068.3)	-8.1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

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA — RNAV SID and TRANSITION

BOLIG TWO DEPARTURE MIDER TRANSITION	RNP1
Note GNSS required.	



BOLIG TWO DEPARTURE

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

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

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.

MIDER TRANSITION

From BOLIG, to IKUNO, to MIDER.

CHANGE : PROC renamed. Note. Navigation Specification.

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA RNAV SID and TRANSITION

BOLIG 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)	-8.2	–	–	+1500	–	–	RNP1
002	DF	OA021	Y	–	-8.2	–	–	–	–	–	RNP1
003	DF	TOJYO	–	–	-8.2	–	L	+12000	–	–	RNP1
004	TF	BOLIG	–	084 (075.7)	-8.2	45.4	–	–	–	–	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)	-8.2	–	–	+1600	–	–	RNP1
002	DF	OA811	Y	–	-8.2	–	–	–	–	–	RNP1
003	DF	TOJYO	–	–	-8.2	–	R	+12000	–	–	RNP1
004	TF	BOLIG	–	084 (075.7)	-8.2	45.4	–	–	–	–	RNP1

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	–	–	–	–	–	RNP1
002	TF	IKUNO	–	084 (076.2)	-8.2	34.4	–	–	–	–	RNP1
003	TF	MIDER	–	111 (102.8)	-8.2	48.9	–	–	–	–	RNP1

CHANGE : PROC renamed. Navigation Specification.

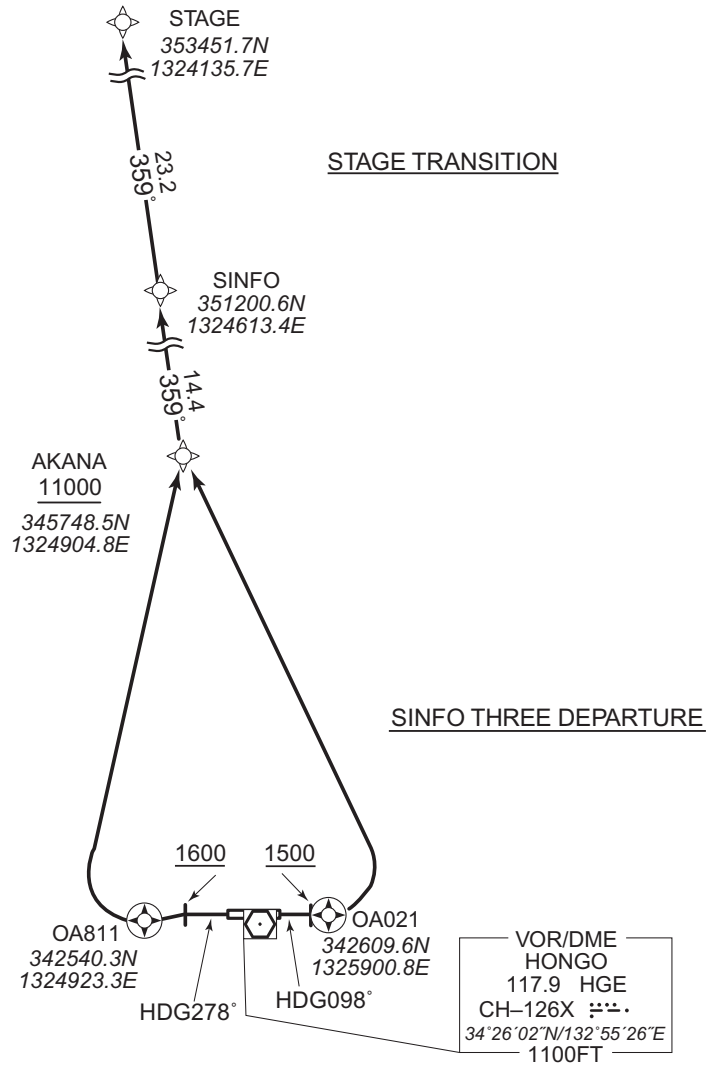
STANDARD DEPARTURE CHART -INSTRUMENT

RJOA / HIROSHIMA — RNAV SID and TRANSITION

SINFO THREE DEPARTURE	RNP1

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

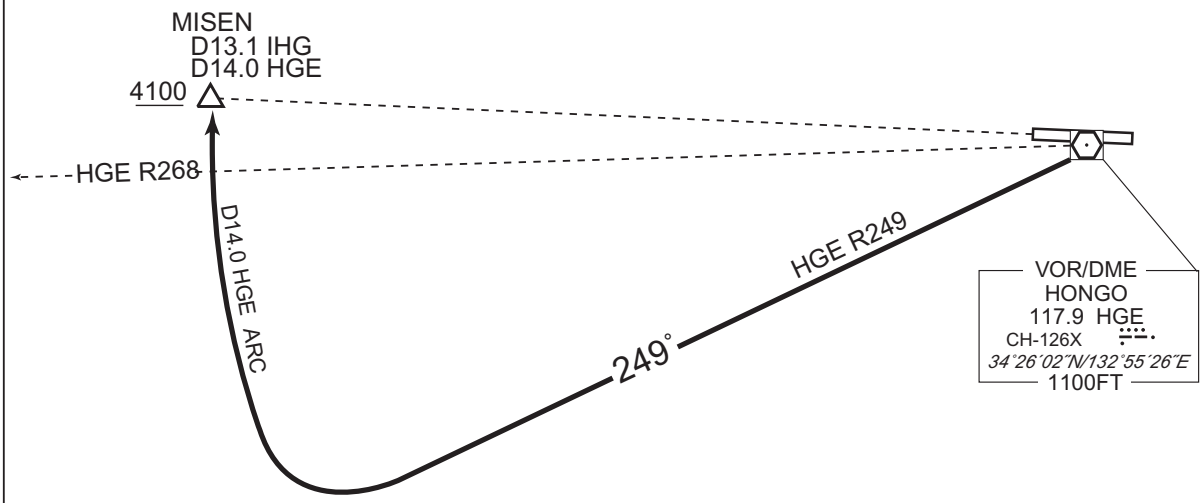
CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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.



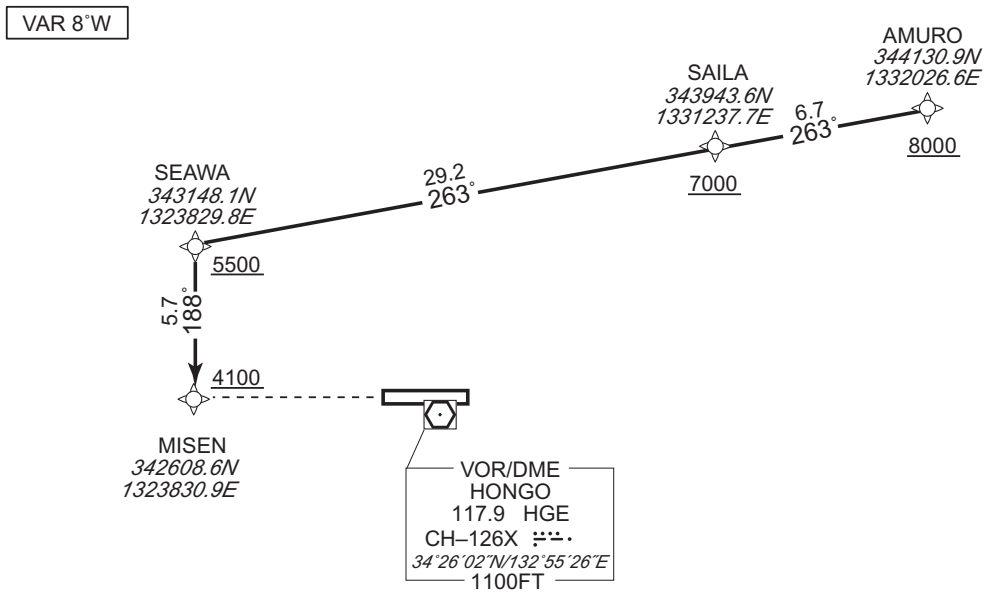
CHANGE : Course FM HGE to MISEN.

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA — RNAV STAR RWY10

MISEN ARRIVAL	RNP1

Note GNSS required.



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

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	SAILA	–	263 (254.5)	-8.1	6.7	–	+7000	–	–	RNP1
003	TF	SEAWA	–	263 (254.4)	-8.1	29.2	–	+5500	–	–	RNP1
004	TF	MISEN	–	188 (179.8)	-8.1	5.7	–	+4100	–	–	RNP1

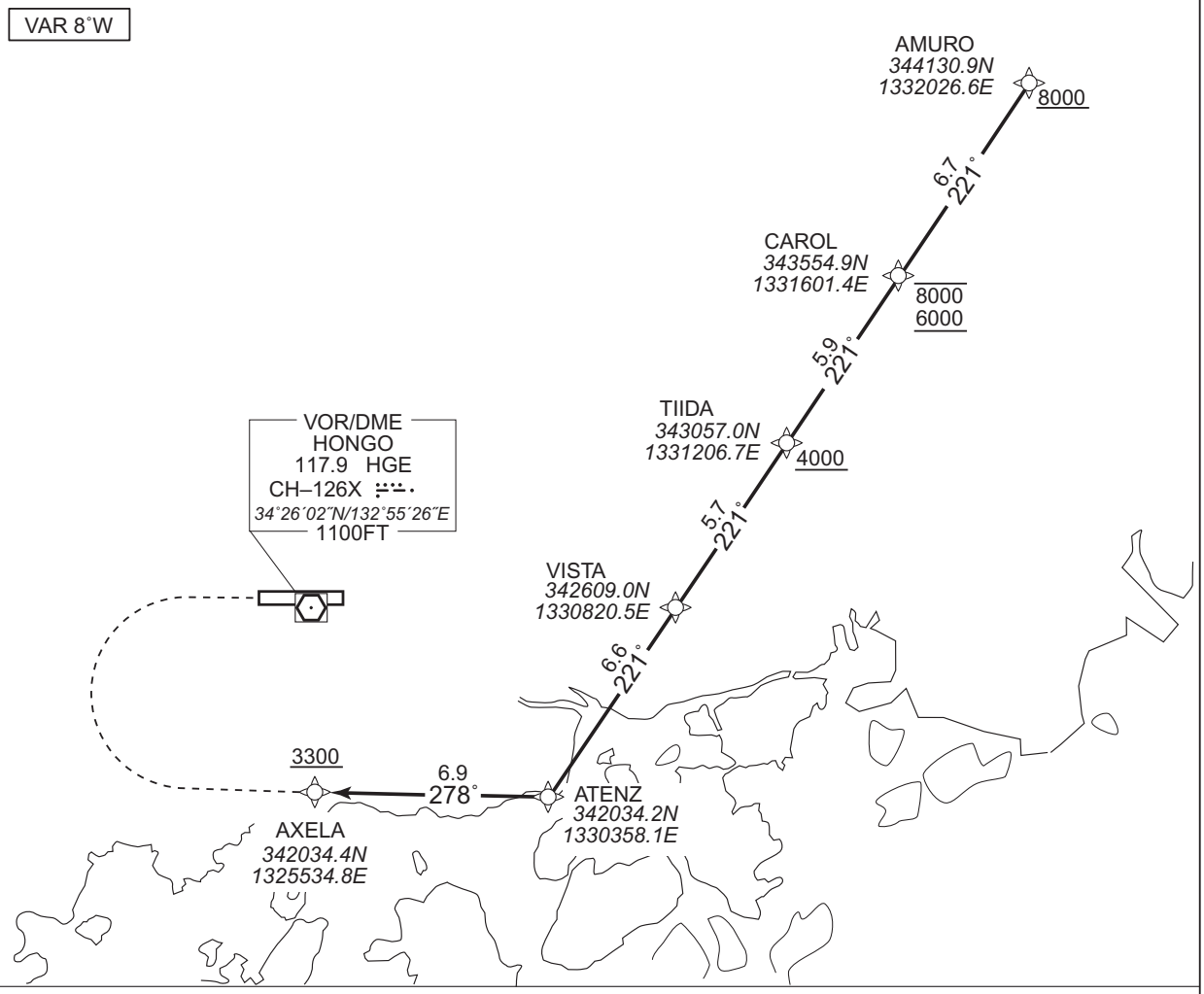
CHANGE : PROC course. Note. Navigation Specification. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMA — RNAV STAR RWY10

AXELA ARRIVAL	RNP1

Note GNSS required.



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.

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

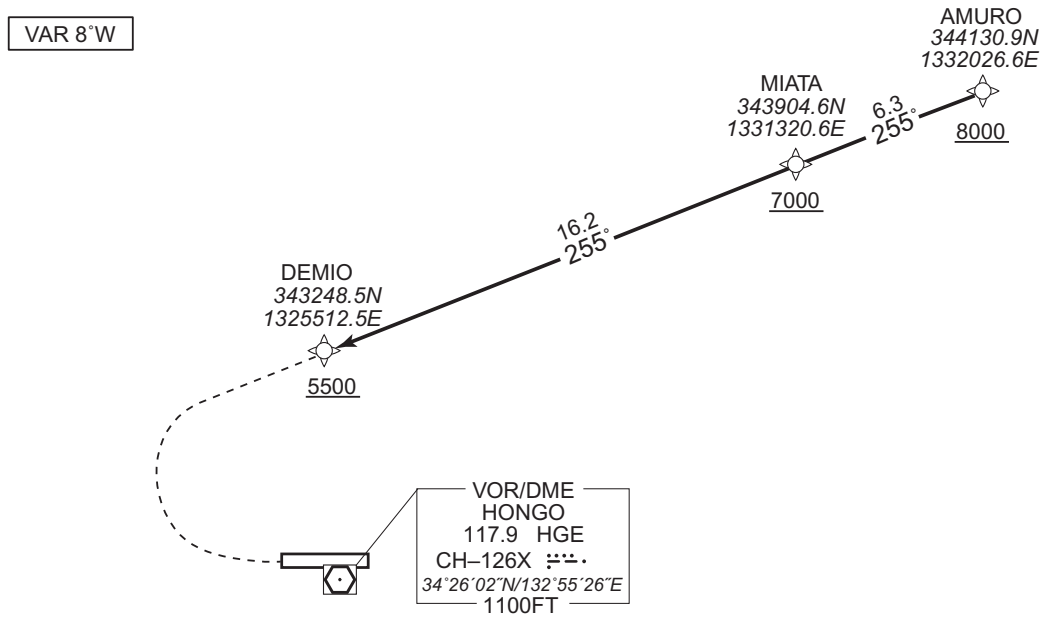
CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMA — RNAV STAR RWY10

DEMIO ARRIVAL	RNP1

Note GNSS required.



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

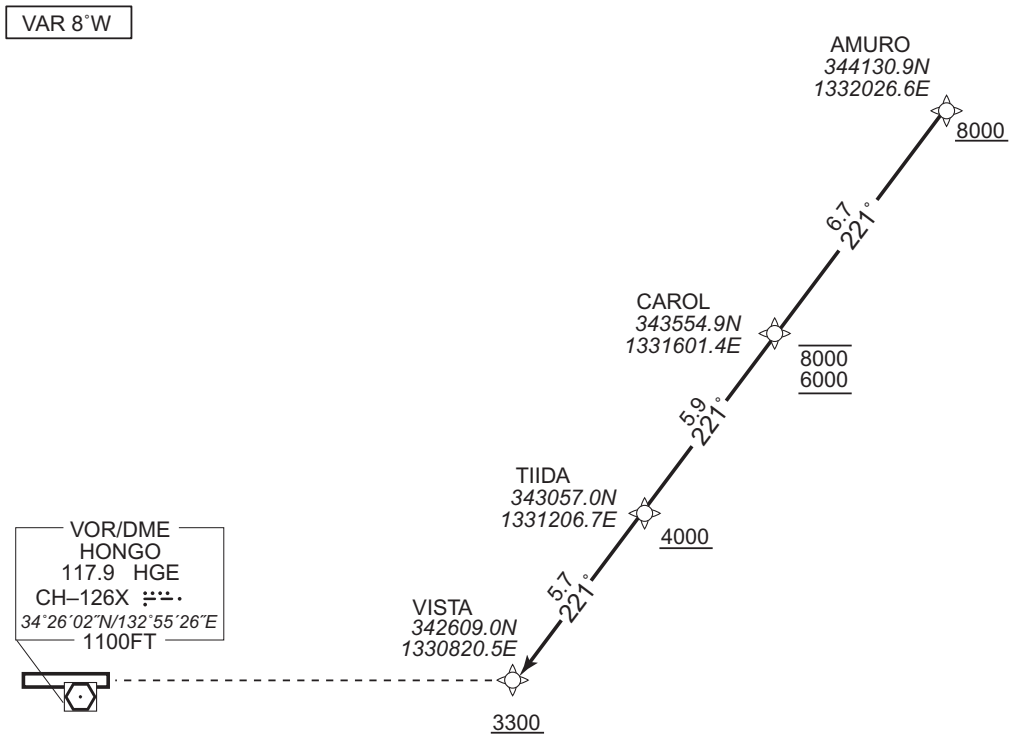
CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA — RNAV STAR RWY28

VISTA ARRIVAL	RNP1

Note GNSS required.



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

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	CAROL	–	221 (213.0)	-8.1	6.7	–	-8000 +6000	–	–	RNP1
003	TF	TIIDA	–	221 (213.0)	-8.1	5.9	–	+4000	–	–	RNP1
004	TF	VISTA	–	221 (212.9)	-8.1	5.7	–	+3300	–	–	RNP1

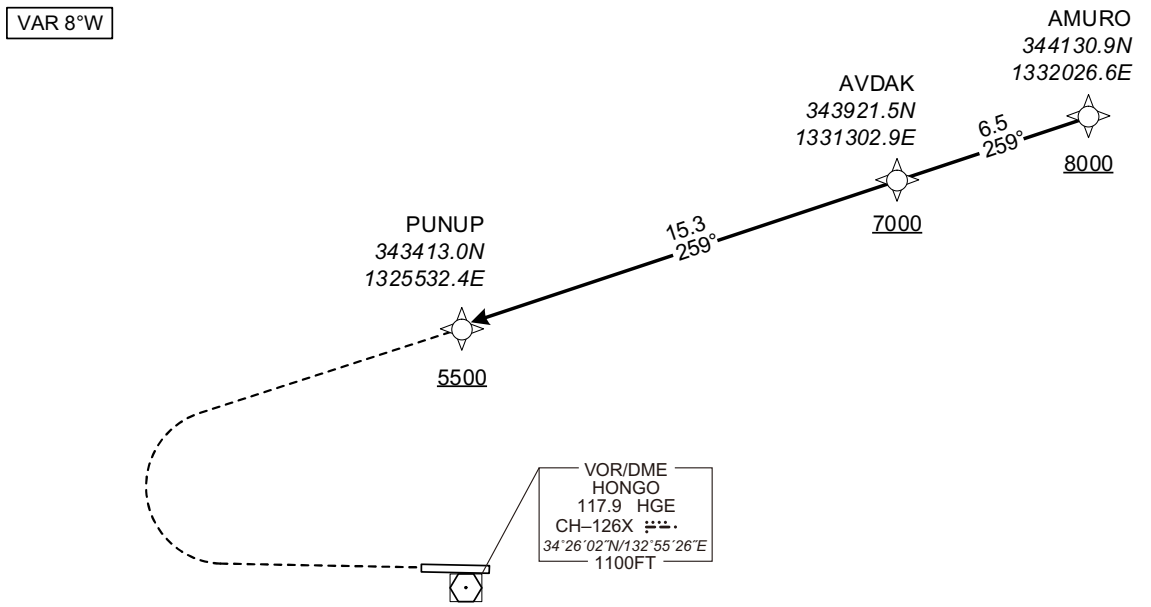
CHANGE : VAR. Navigation Specification.

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA — RNAV STAR RWY10

PUNUP ARRIVAL	RNP1

Note GNSS required.



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

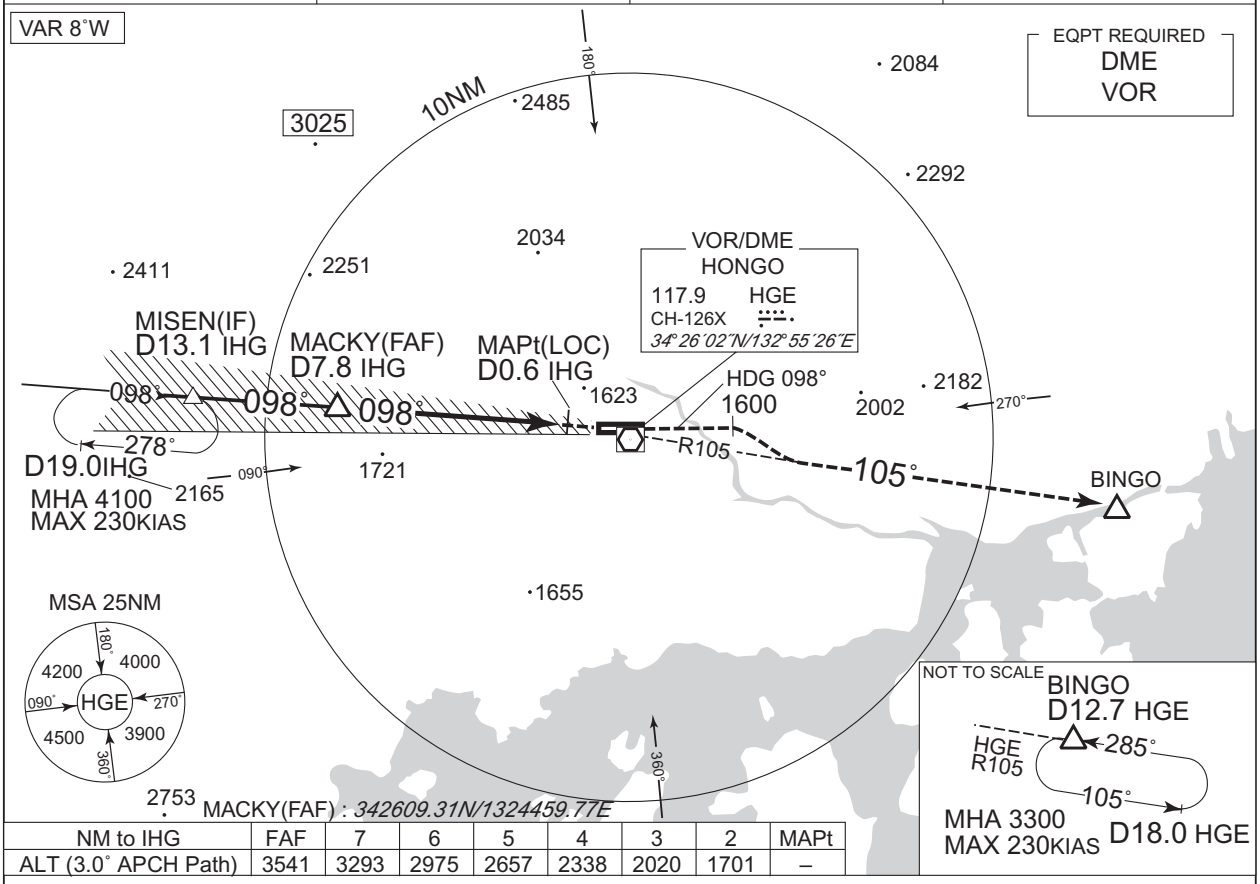
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AMURO	—	—	-8.1	—	—	+8000	—	—	RNP1
002	TF	AVDAK	—	259 (250.5)	-8.1	6.5	—	+7000	—	—	RNP1
003	TF	PUNUP	—	259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

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

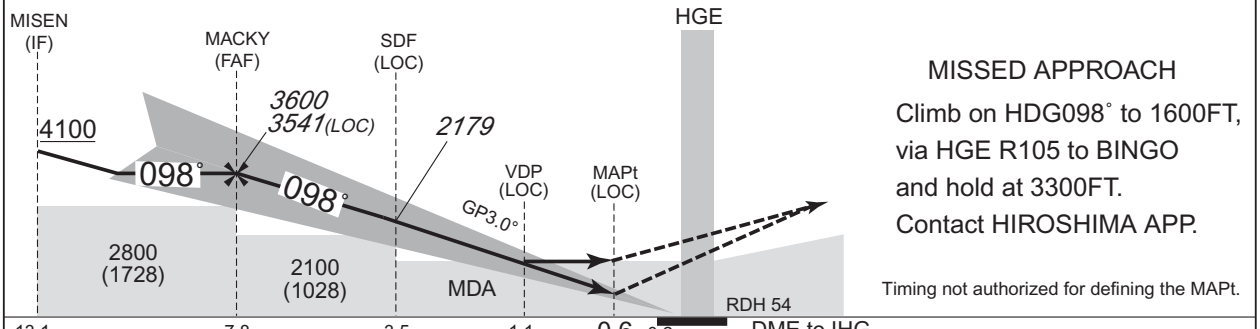
INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA — ILS Z or LOC RWY10 (CAT Ⅲ)

HIROSHIMA APP	ILS-LOC	HIROSHIMA TOWER	RADAR AVBL
124.05–119.9	108.7 IHG ILS–GP 330.5 ILS–DME CH–24X	118.6–126.2	ATIS 127.25



NM to IHG	FAF	7	6	5	4	3	2	MAPt
ALT (3.0° APCH Path)	3541	3293	2975	2657	2338	2020	1701	–



MISSED APPROACH

Climb on HDG098° to 1600FT,
via HGE R105 to BINGO
and hold at 3300FT.
Contact HIROSHIMA APP.

Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 1072 AD elev. 1086

CAT	CAT Ⅲ	CAT Ⅱ			CAT Ⅰ		LOC		CIRCLING	
	RVR	DA(H)	RA	RVR	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	100	Not applicable			1272 (200)	550	1410 (338)	900	1510 (424)	1600
B								1000	1540 (454)	
C										2400
D								1400	1640 (554)	3200

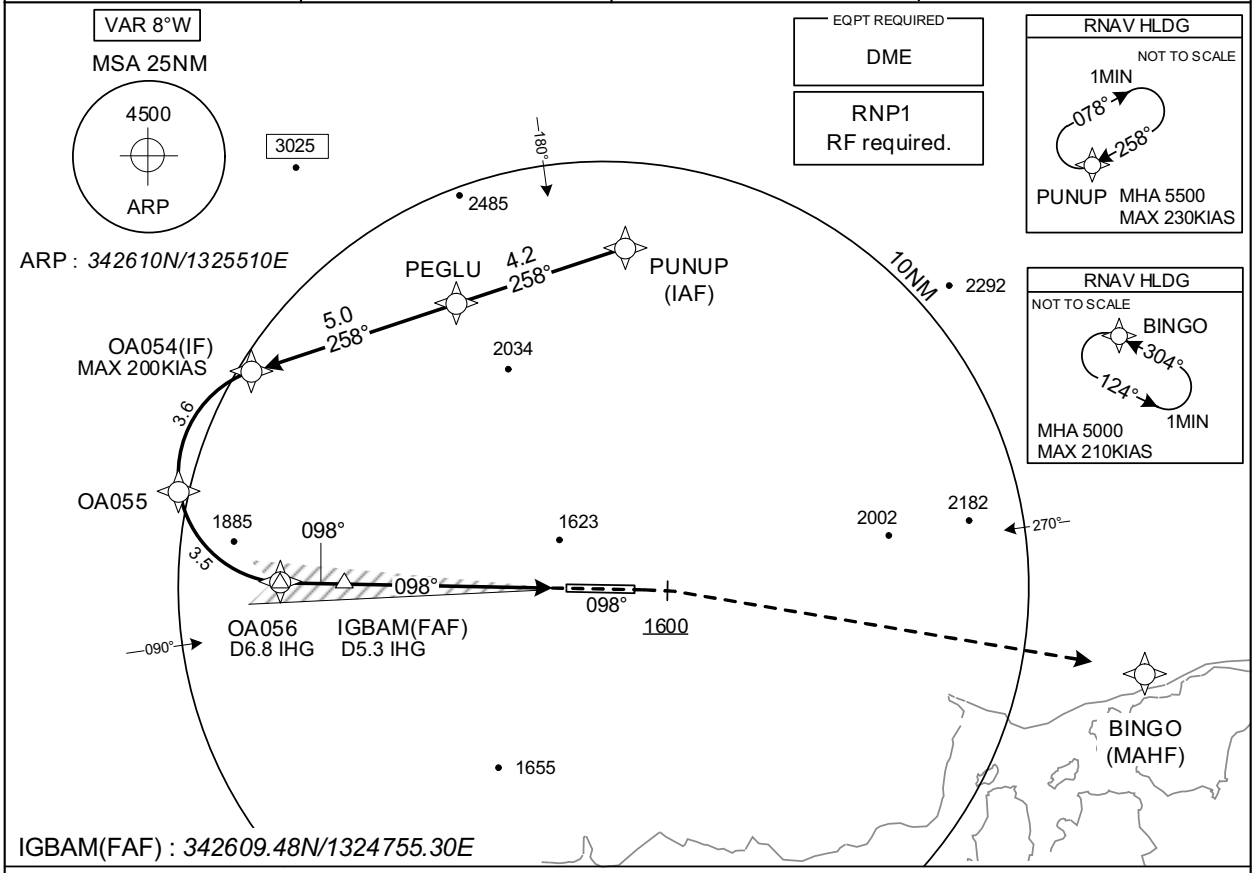
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to SOUTH side of RWY only
Values of RA may increase or decrease rapidly affected by terrain until IHG 0.3DME.

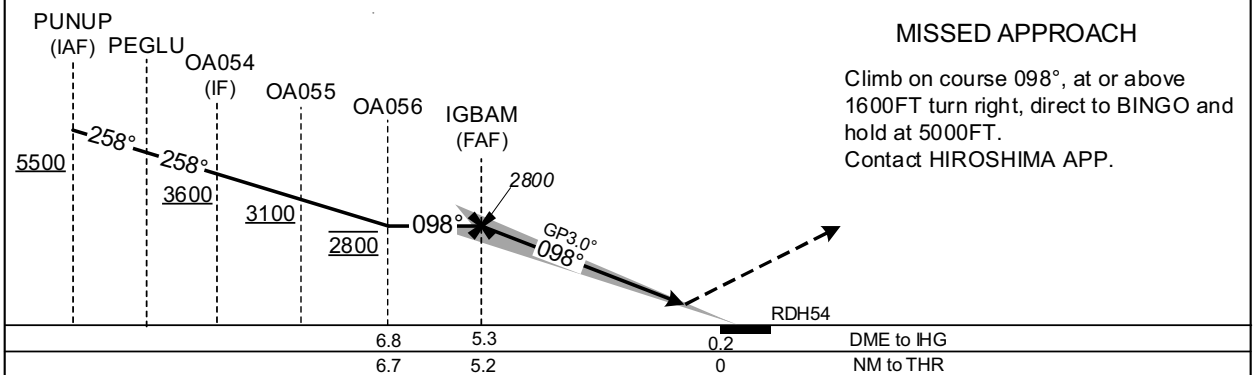
CHANGE : PROC renamed. Description of VAR.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA — ILS Y RWY10(CAT Ⅲ)

HIROSHIMA APP	ILS-LOC	HIROSHIMA TOWER	RADAR AVBL
124.05–119.9	108.7 IHG ILS–GP 330.5 ILS–DME CH–24X	118.6–126.2	ATIS 127.25





MISSED APPROACH

Climb on course 098°, at or above 1600FT turn right, direct to BINGO and hold at 5000FT.
Contact HIROSHIMA APP.

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

Missed APCH climb gradient MNM 5.0%

MINIMA — THR elev. 1072 — AD elev. 1086

CAT	CAT Ⅲ	CAT Ⅱ			CAT Ⅰ		CIRCLING	
	RVR	DA(H)	RA	RVR	DA(H)	RVR/CMV	MDA(H)	VIS
A	100	Not applicable			1272 (200)	550	1510 (424)	1600
B							1540 (454)	
C								2400
D							1640 (554)	3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to SOUTH side of RWY only
Values of RA may increase or decrease rapidly affected by terrain until IHG 0.3DME.

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

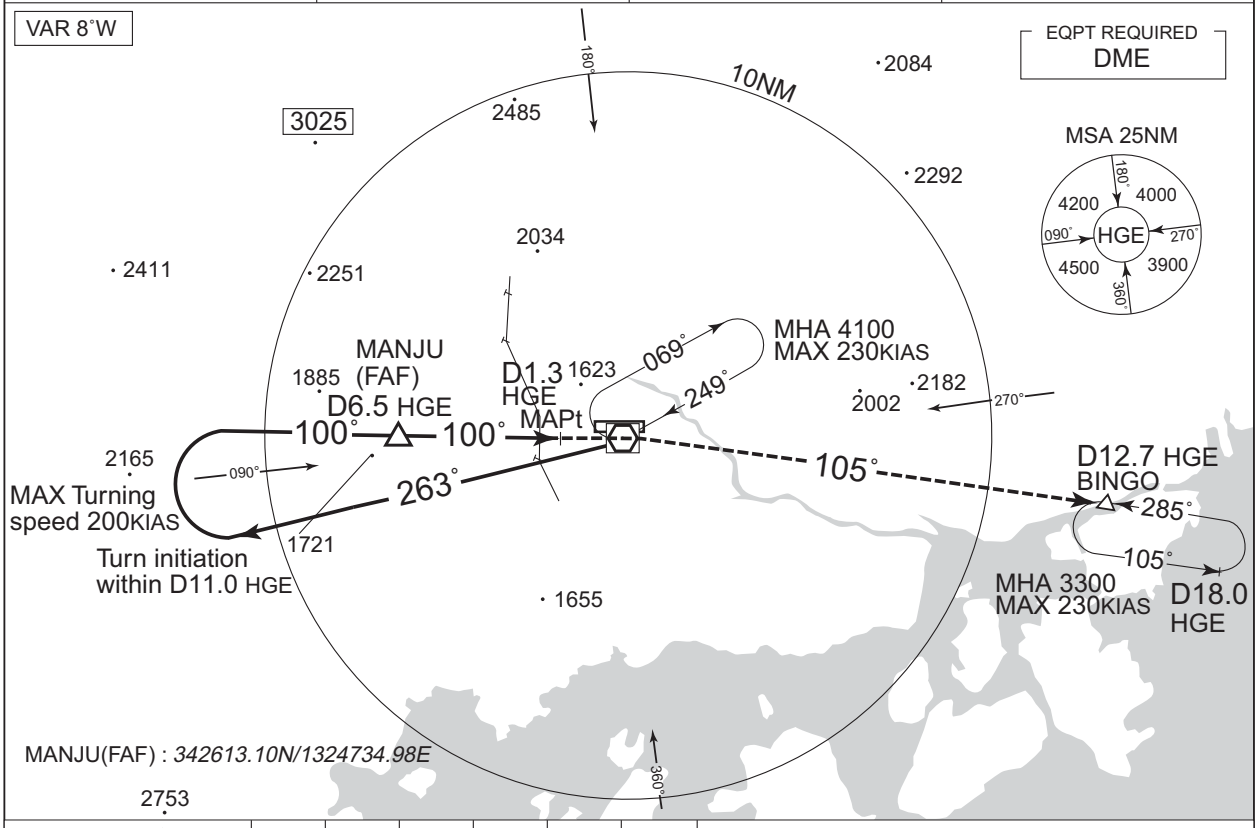
Waypoint Coordinates

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*		

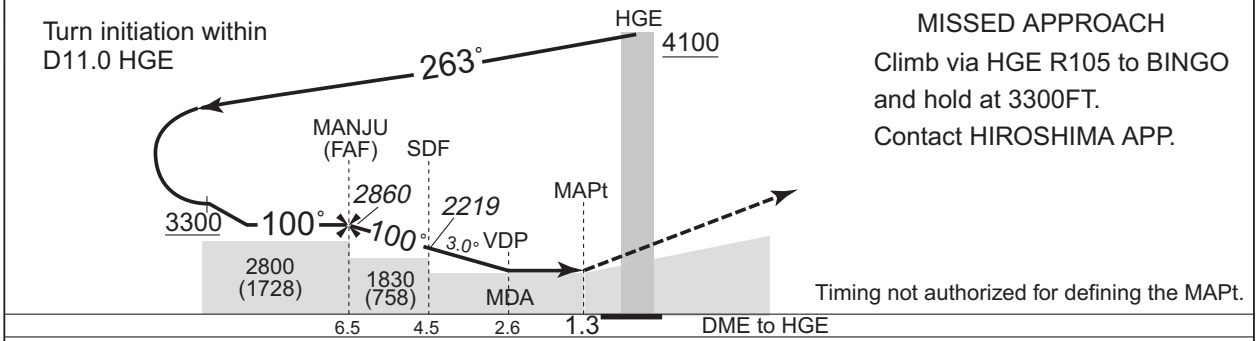
INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA — VOR RWY10

HIROSHIMA APP	HONGO VOR/DME 117.9 HGE CH–126X 34°26′02″N/132°55′26″E	HIROSHIMA TOWER	RADAR AVBL
124.05 – 119.9		118.6 - 126.2	ATIS 127.25



NM to HGE	FAF	6	5	4	3	MAPt
ALT (3.0° APCH Path)	2860	2701	2383	2064	1746	–



MISSED APPROACH
Climb via HGE R105 to BINGO
and hold at 3300FT.
Contact HIROSHIMA APP.

Timing not authorized for defining the MAPt.

MINIMA THR elev. 1072 AD elev. 1086

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	1600 (528)	1000	1600 (514)	1600
B		1200		
C				2400
D		1600	1640 (554)	3200

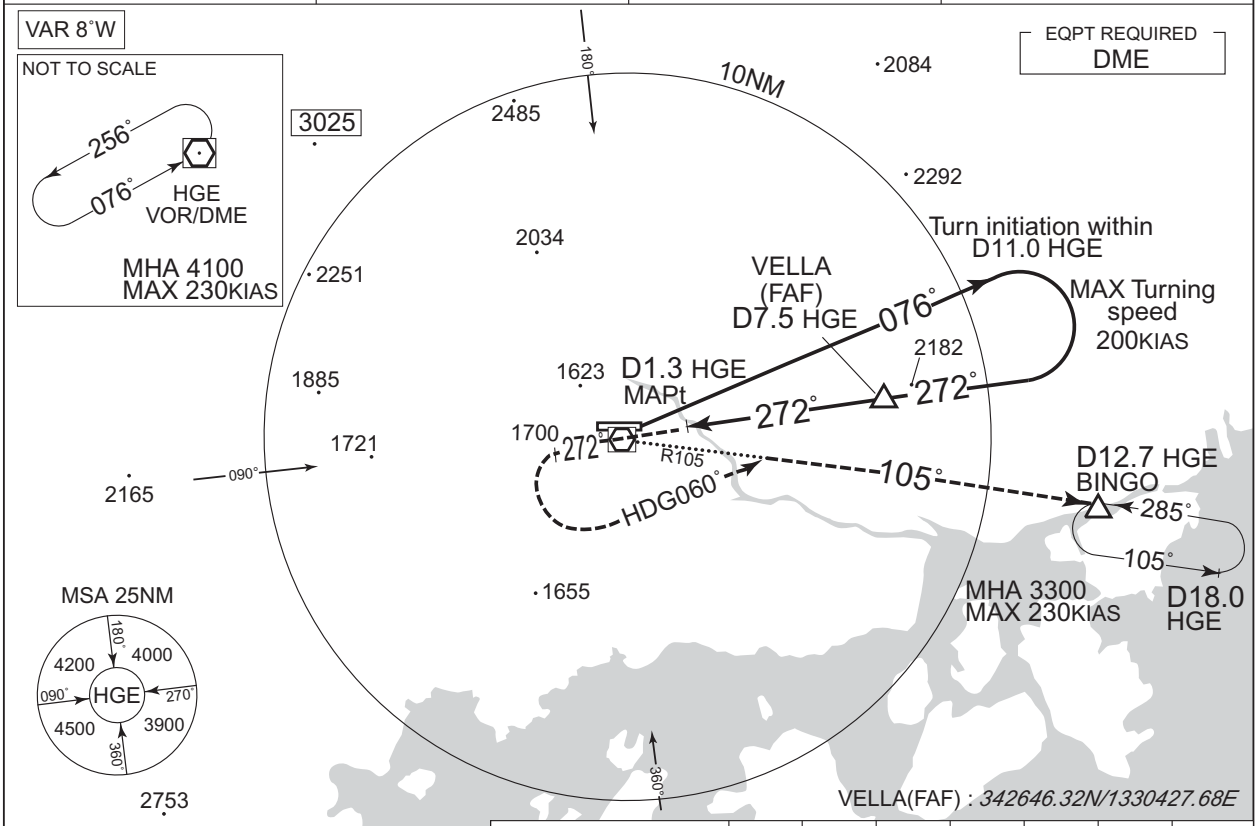
Circling to SOUTH side of RWY only.

CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA — VOR RWY28

HIROSHIMA APP	HONGO VOR/DME	HIROSHIMA TOWER	RADAR AVBL
124.05 – 119.9	117.9 HGE CH–126X 34˚26′02″N/132˚55′26″E	118.6 - 126.2	ATIS 127.25

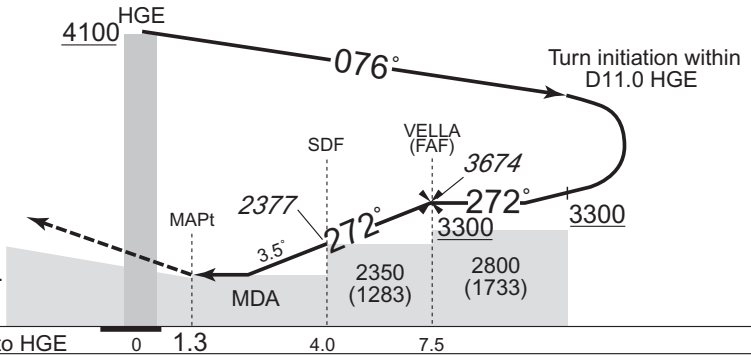


NM to HGE	MAPt	3	4	5	6	7	FAF
ALT (3.5˚ APCH Path)	–	2006	2377	2748	3118	3489	3674

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

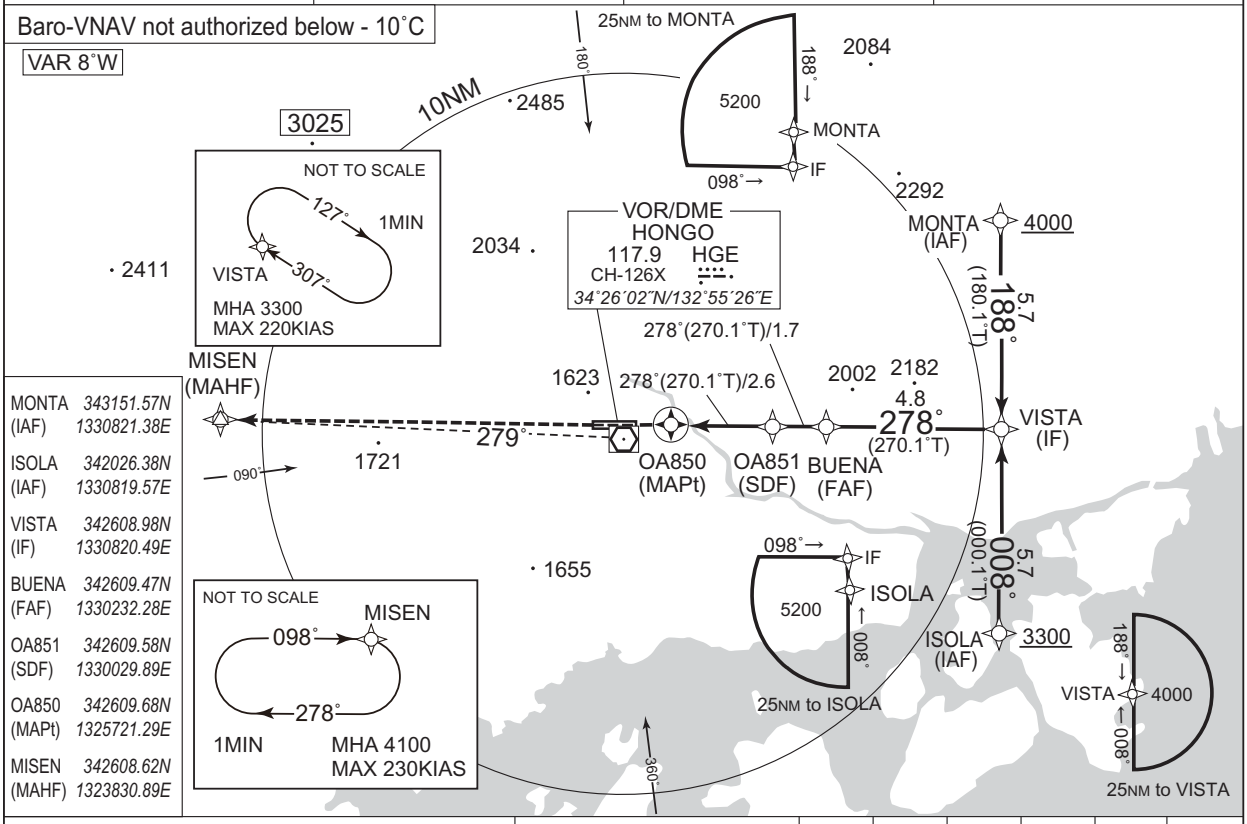
Circling to SOUTH side of RWY only.
VDP not applicable.

CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA — RNP RWY28

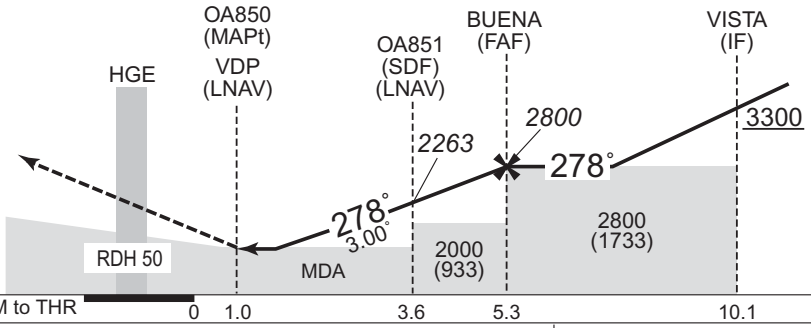
HIROSHIMA APP	RNP APCH	HIROSHIMA TOWER	RADAR AVBL
124.05–119.9		118.6–126.2	ATIS 127.25



NM to Next Fix	MAPt	1	2	3	4	FAF
ALT (3.0˚ APCH Path)	–	1753	2072	2390	2709	2800

MISSED APPROACH
Direct to MISEN and hold at 4100FT.
Contact HIROSHIMA APP.

(for using VOR/DME)
Climb via HGE R279 to MISEN and hold at 4100FT.
Contact HIROSHIMA APP.



Missed APCH climb gradient MNM 4.0%

MINIMA — THR elev. 1067 — AD elev. 1086

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	1440 (373)	1200	1440 (373)	1200	1510 (424)	1600
B		1300		1300	1540 (454)	
C		1400		1400		2400
D		1600		1600	1640 (554)	3200

Circling to SOUTH side of RWY only.
MINIMA with Missed APCH climb gradient of 2.5% are not established.

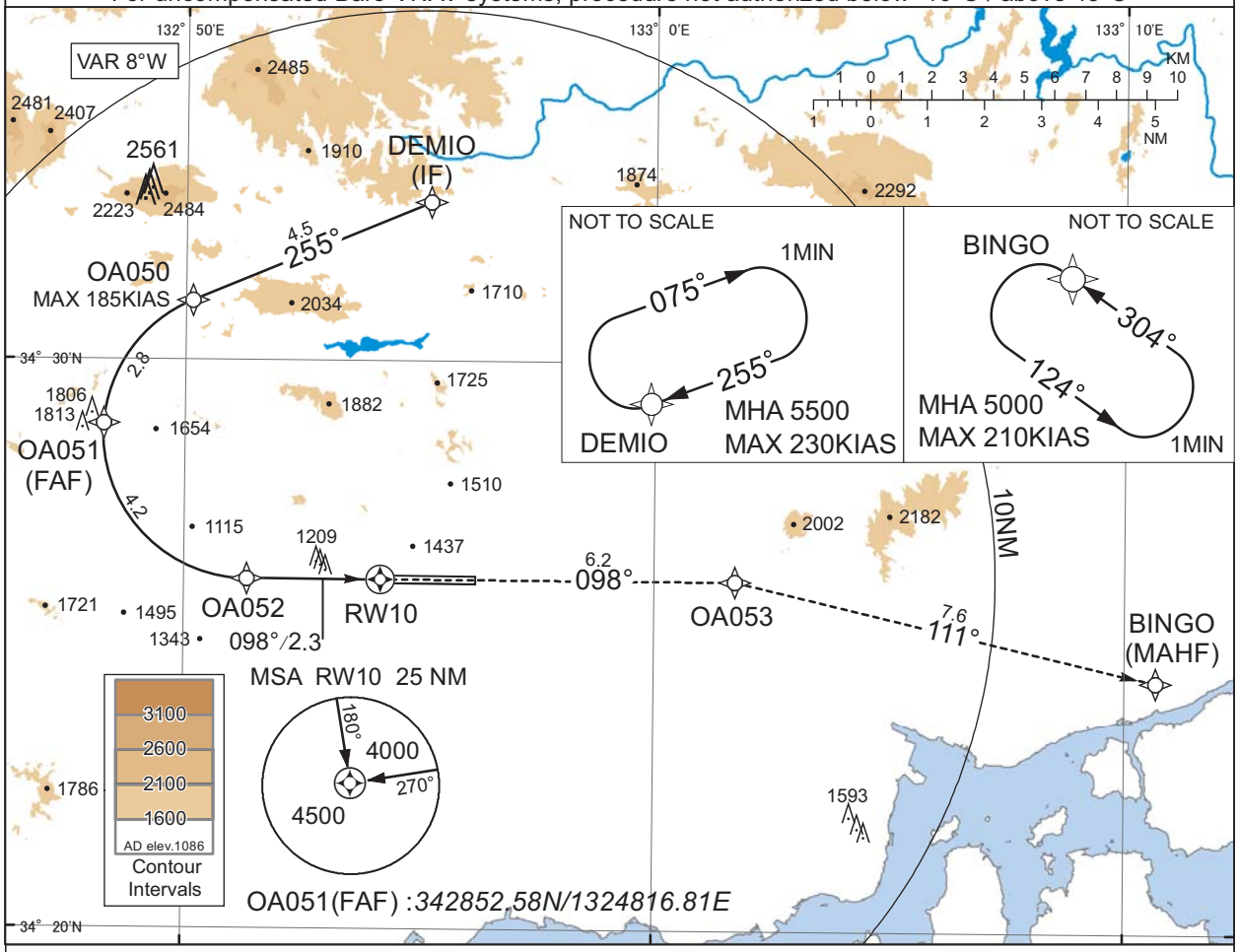
CHANGE : Description of VAR.

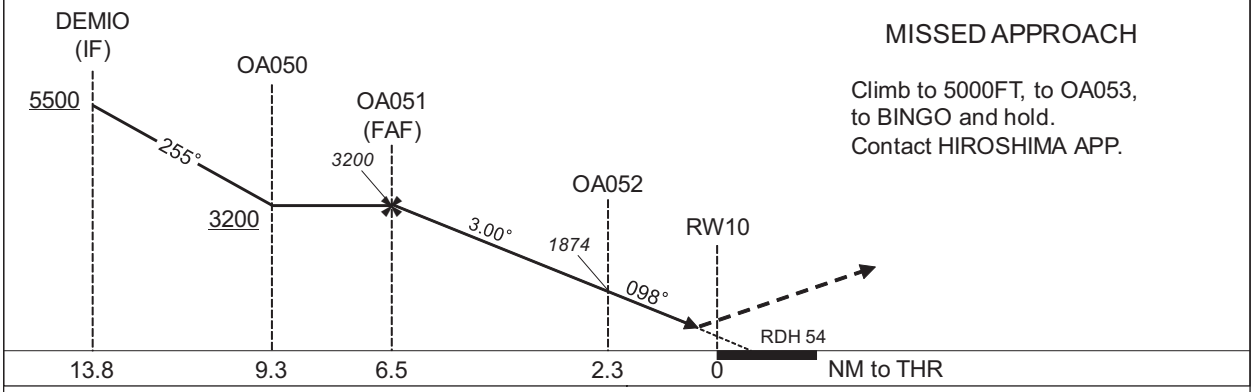
INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA — RNP Z RWY10(AR)

HIROSHIMA APP 124.05 - 119.9	RNP AR RF required.	HIROSHIMA TOWER 118.6 - 126.2	RADAR AVBL ATIS 127.25

For uncompensated Baro-VNAV systems, procedure not authorized below -10°C / above 45°C





MISSED APPROACH

Climb to 5000FT, to OA053,
to BINGO and hold.
Contact HIROSHIMA APP.

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.

Authorization Required

CHANGE : Description of VAR.

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

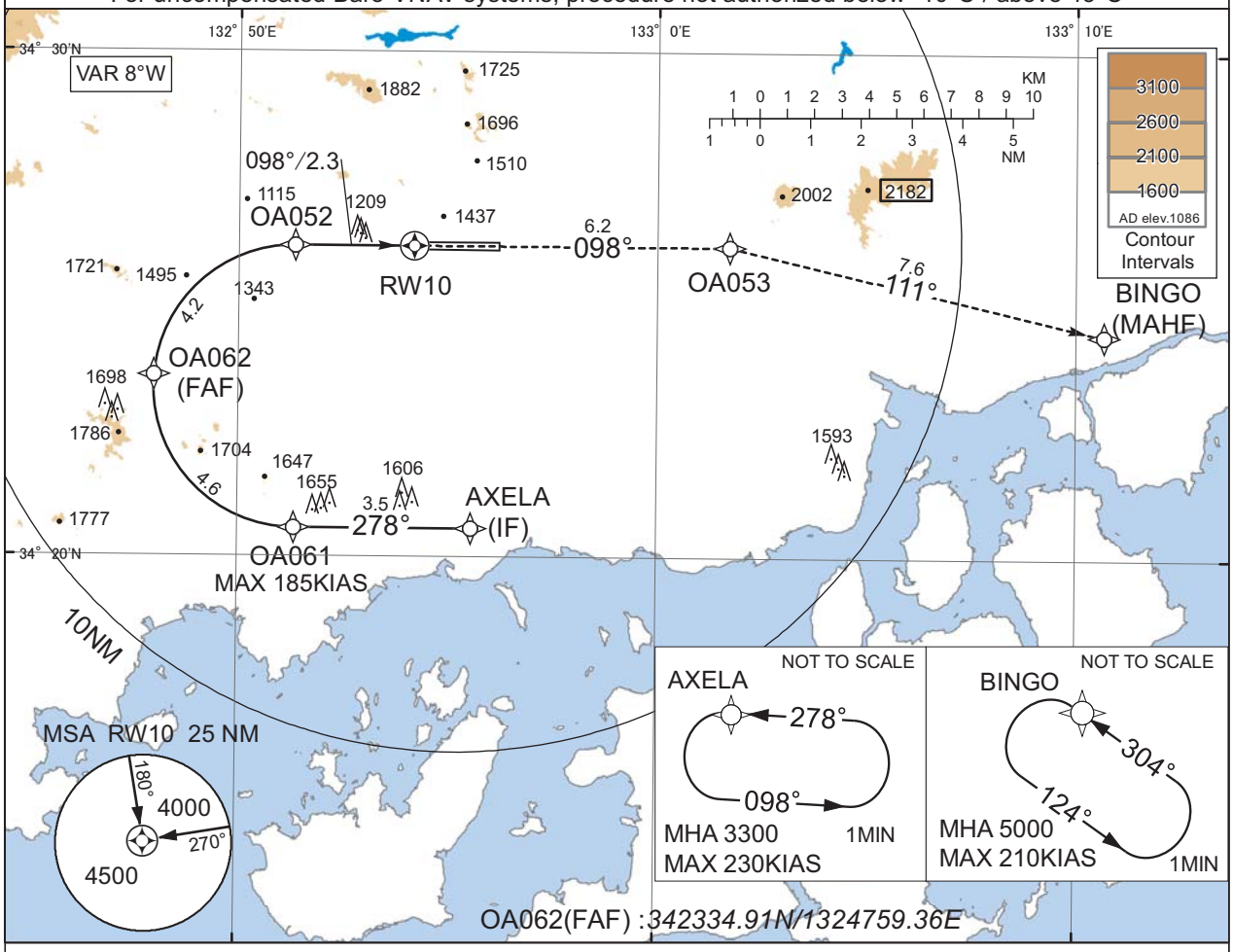
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
DEMIO	*343248.47N / 1325512.50E*	OARF1	*342842.28N / 1325120.72E*
OA050	*343102.99N / 1325009.23E*		
OA051	*342852.58N / 1324816.81E*		
OA052	*342609.63N / 1325120.84E*		
RW10	*342609.69N / 1325411.25E*		
OA053	*342609.67N / 1330143.51E*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

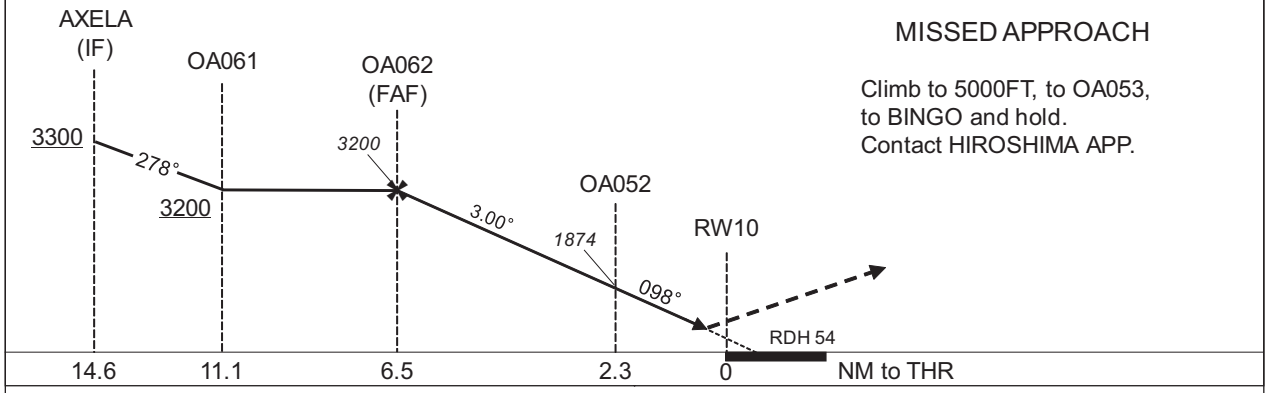
INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA — RNP Y RWY10(AR)

HIROSHIMA APP 124.05 - 119.9	RNP AR RF required.	HIROSHIMA TOWER 118.6 - 126.2	RADAR AVBL ATIS 127.25

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.

Authorization Required

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*		

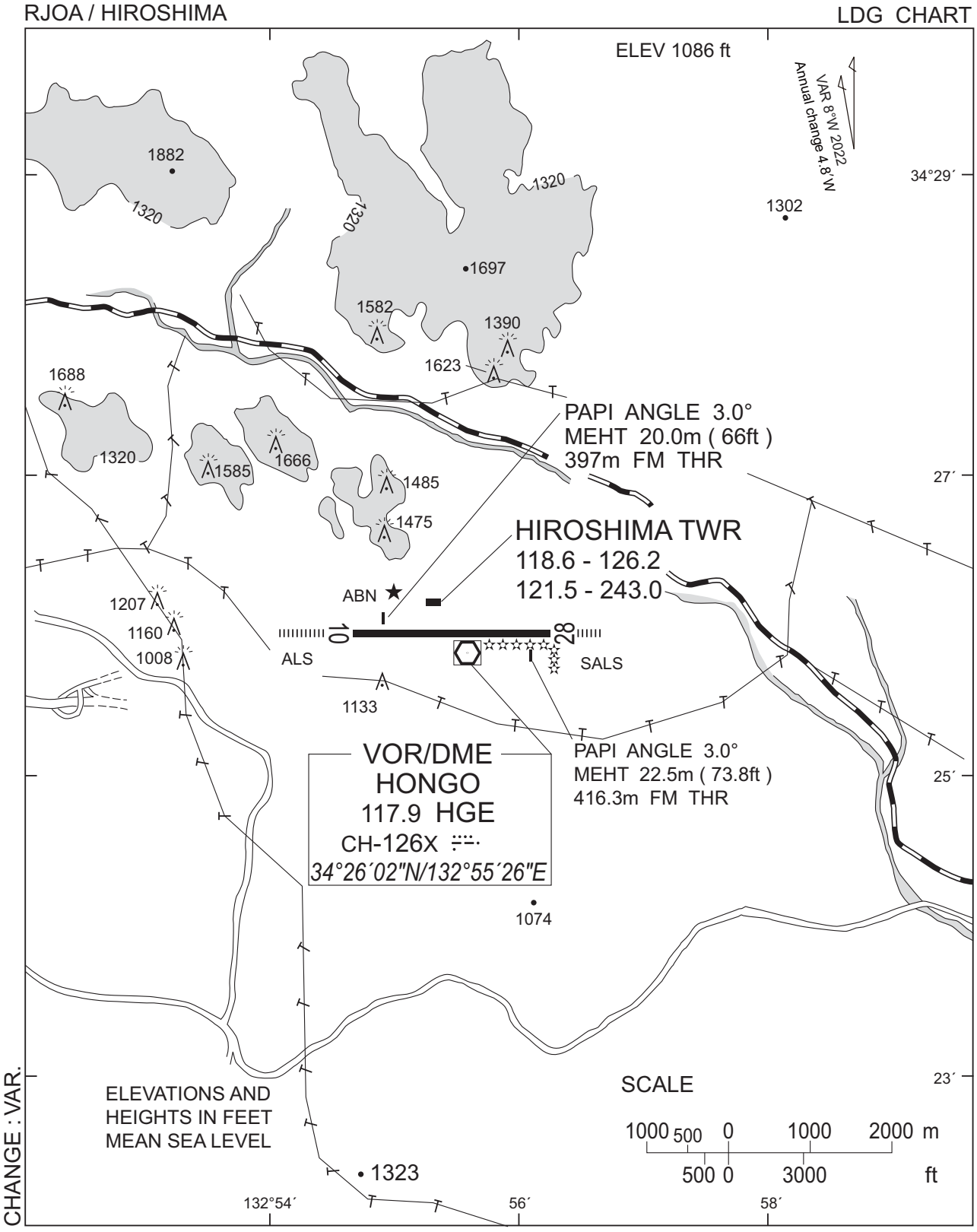
RJOA / HIROSHIMA

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).

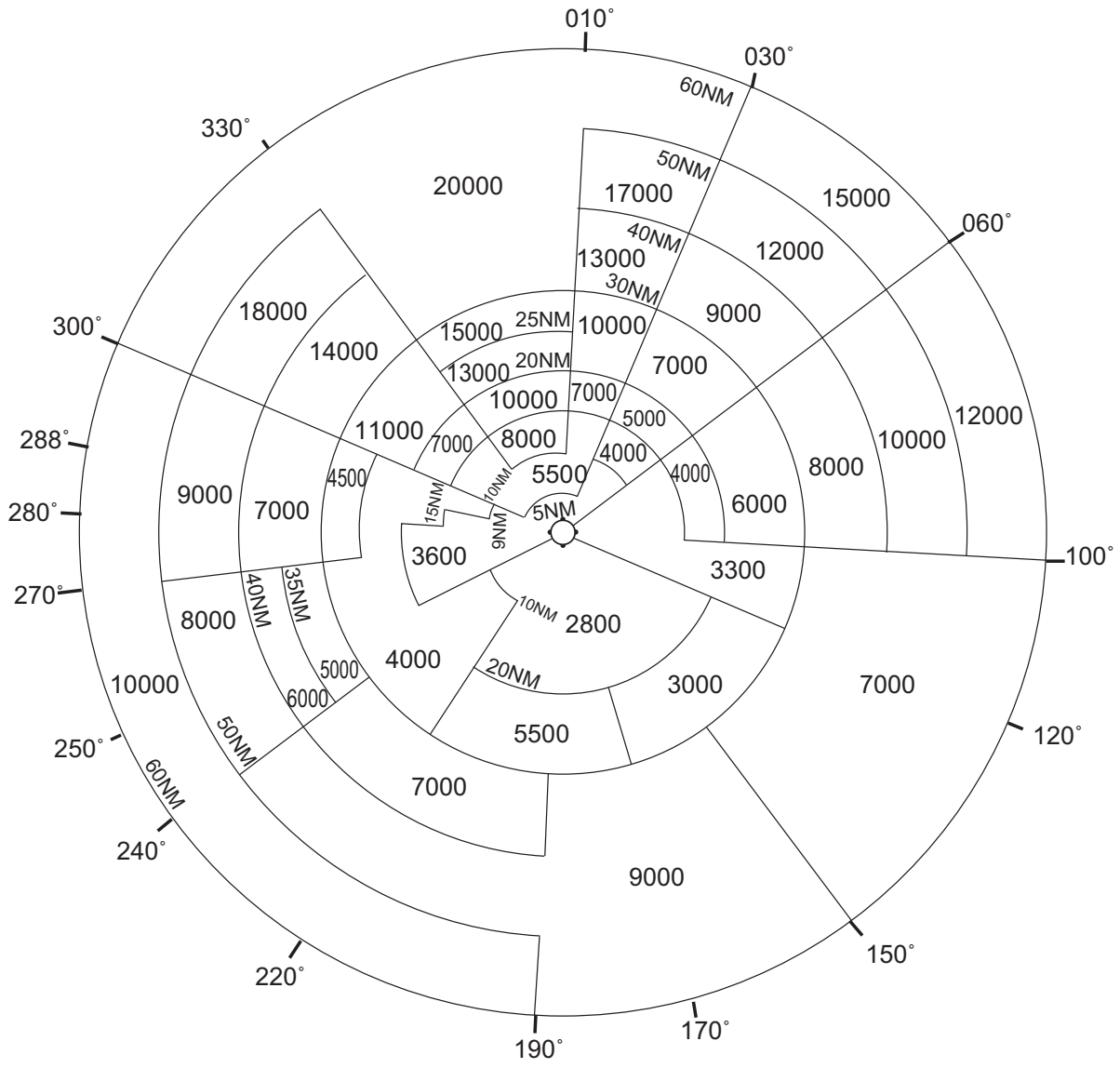
CHANGE : VAR.

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
LDG CHART
ELEV 1086 ft
VAR 8°W 2022
Annual change 4.8'W
34°29´
27´
25´
23´
1882
1320
1320
1320
1302
•1697
1582
1390
1623
1688
1320
1585
1666
1485
1475
PAPI ANGLE 3.0°
MEHT 20.0m (66ft)
397m FM THR
HIROSHIMA TWR
118.6 - 126.2
121.5 - 243.0
ABN
10
28
ALS
SALS
1207
1160
1008
1133
VOR/DME
HONGO
117.9 HGE
CH-126X
34°26´02"N/132°55´26"E
PAPI ANGLE 3.0°
MEHT 22.5m (73.8ft)
416.3m FM THR
1074
ELEVATIONS AND
HEIGHTS IN FEET
MEAN SEA LEVEL
SCALE
1000 500 0 1000 2000 m
500 0 3000 ft
• 1323
132°54´
56´
58´
CHANGE : VAR.

RJOA / HIROSHIMA Minimum Vectoring Altitude CHART

VAR 8˚W (2022)



CENTER：*342602N/1325458E* (RADAR SITE)

CHANGE : VAR.