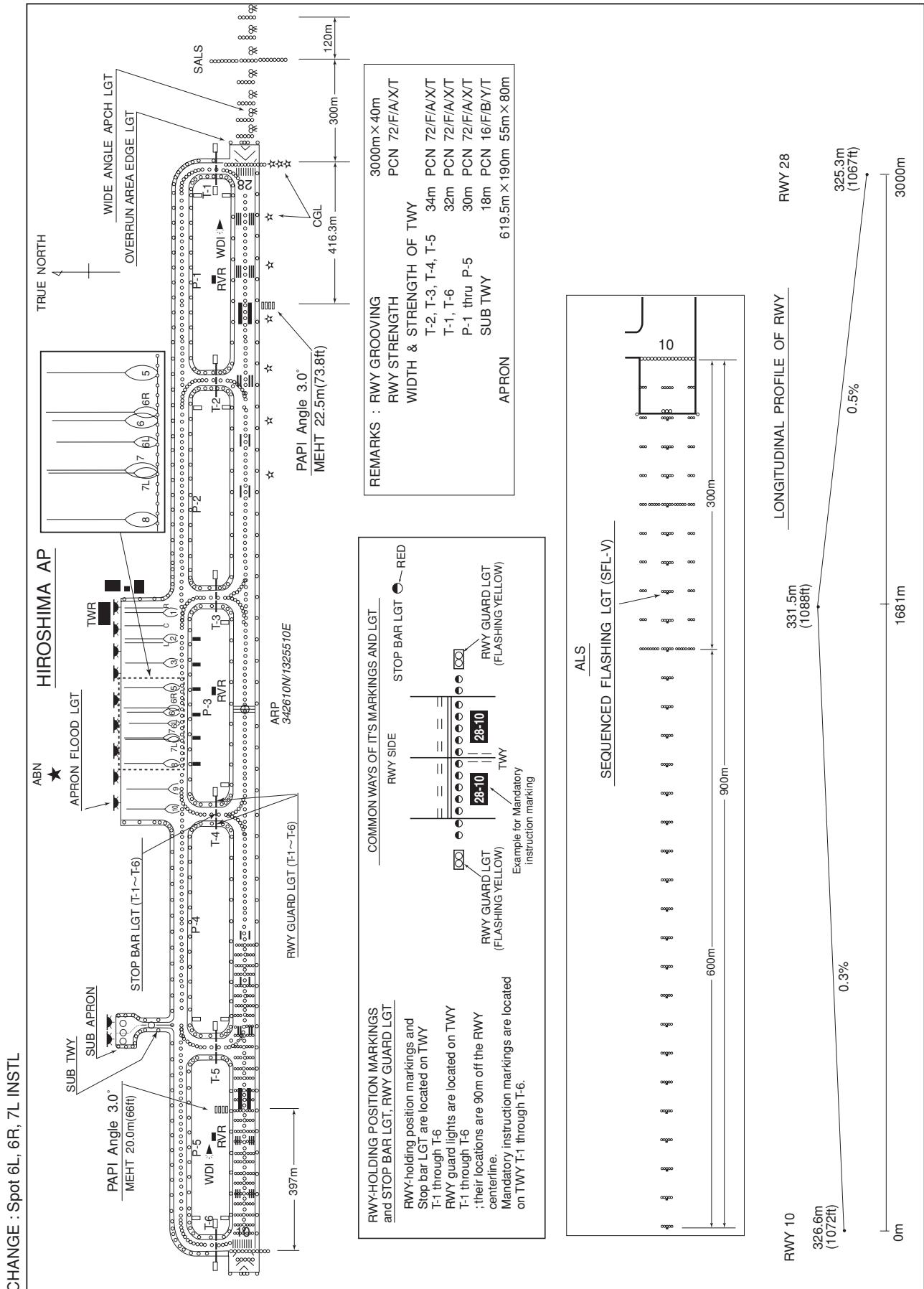


RJOA / HIROSHIMA

AD CHART

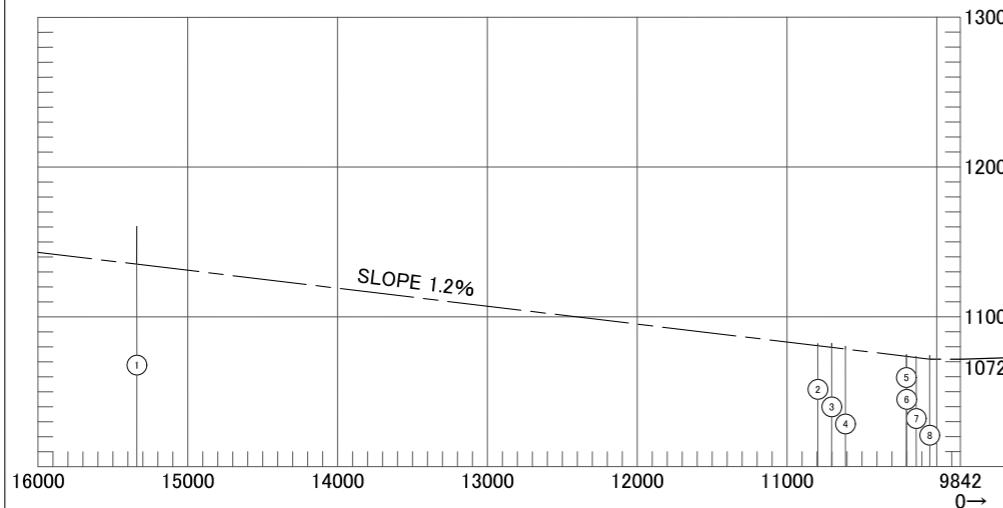


INTENTIONALLY LEFT BLANK

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

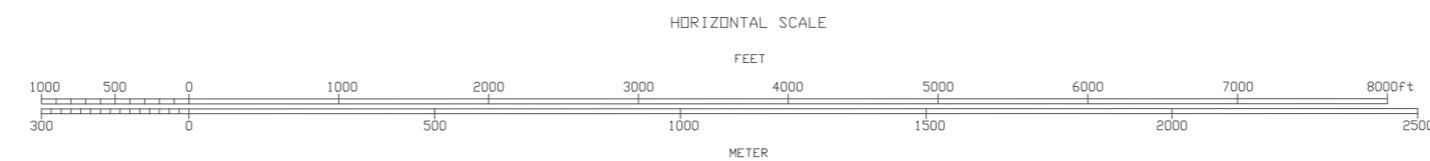
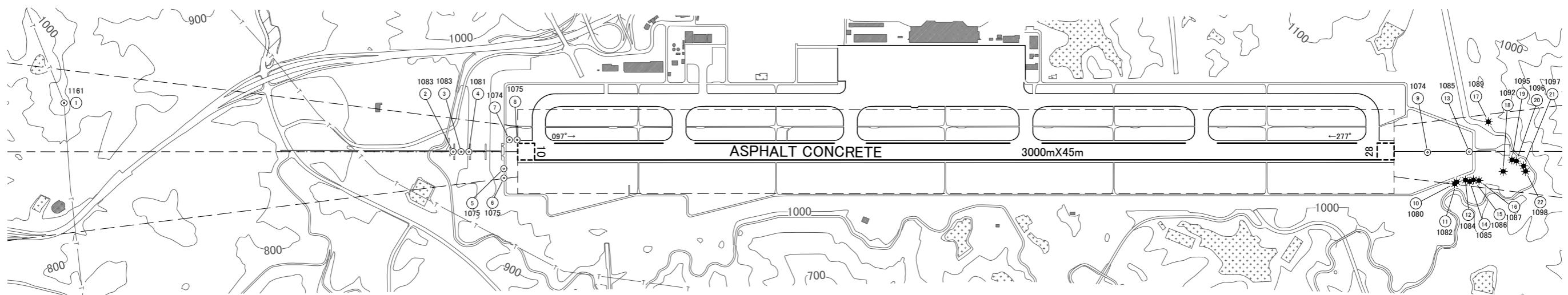
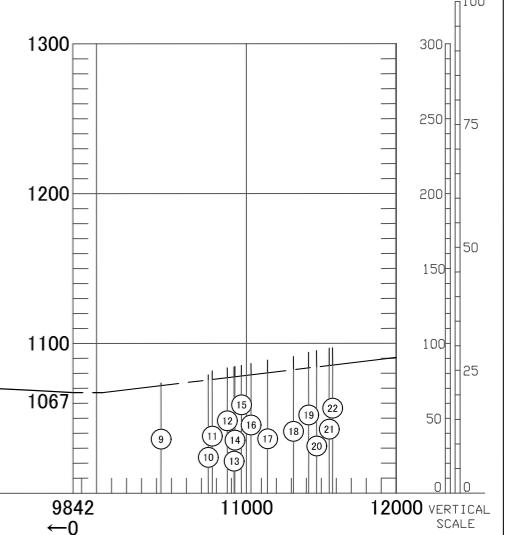
AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 7° W-APR 2019



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 |

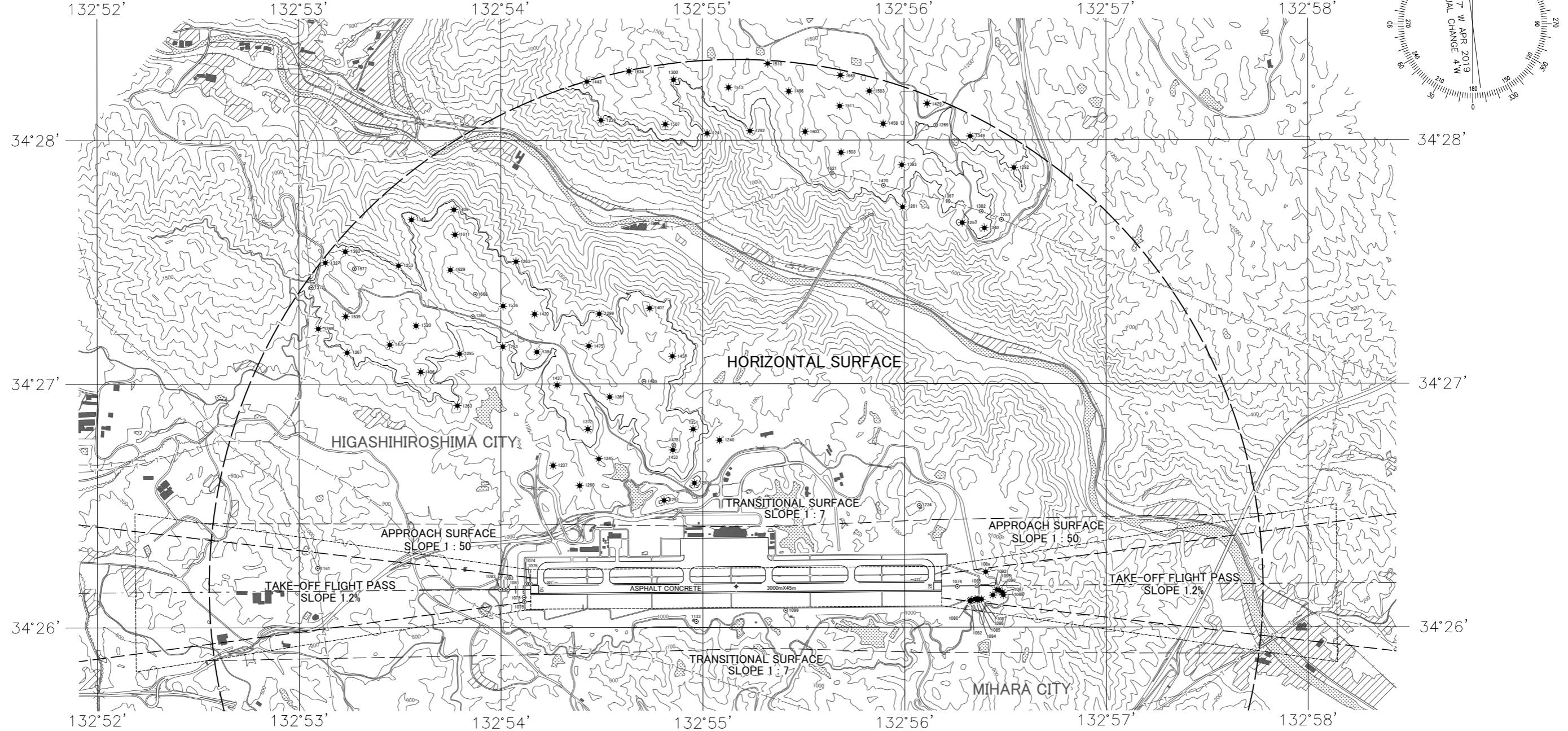


| LEGEND | | | AMENDMENT RECORD | | |
|------------|-------------------------------------|------------|---------------------|--|--|
| Nr | DATE | ENTERED BY | | | |
| (1) | IDENTIFICATION NUMBER | | | | |
| (2) | POLE, TOWER, SPIRE, ANTENNA, ETC | | | | |
| * | OBSTRUCTION LIGHT | | | | |
| [Building] | BUILDING OR LARGE STRUCTURE | | | | |
| — | RAILROAD | △ | TRIANGULATION POINT | | |
| -T-T- | TRANSMISSION LINE OR OVERHEAD CABLE | | | | |
| | LEVEE | | | | |
| * | TREE | | | | |
| ~~~~~ | RIVER | | | | |
| ██████ | LAKE | | | | |
| ~~~~~ | CONTOURS(ft) | | | | |

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO
TYPE B (OPERATING LIMITATIONS)

AERODROME ELEVATION 1086ft ARP



| LEGEND | | | AMENDMENT RECORD | | |
|--------|------|------------|---|--------------------------------------|--|
| NO | DATE | ENTERED BY | | | |
| | | | + 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 | |
| | | | | RIVER | |
| | | | | LAKE | |
| | | | | WAVES | |
| | | | | CONTOURS(ft) | |

CHANGE:Update

PRECISION APPROACH TERRAIN CHART-ICAO

PRCISION 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.

OTSU TRANSITION

From over TOJYO, proceed via YME R256 to TOZAN, via CUE R291 to CUE 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.

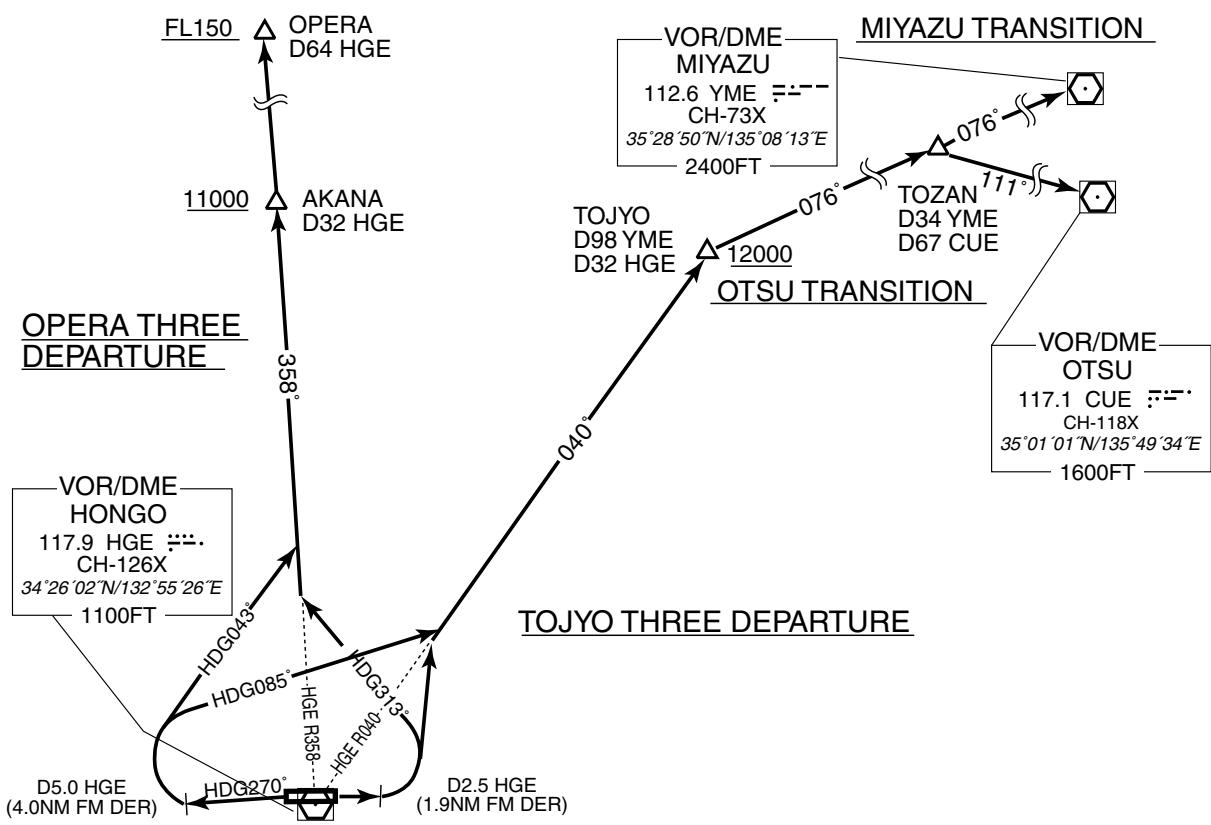
Cross AKANA at or above 11000FT, cross OPERA at or above FL150.

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.



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.

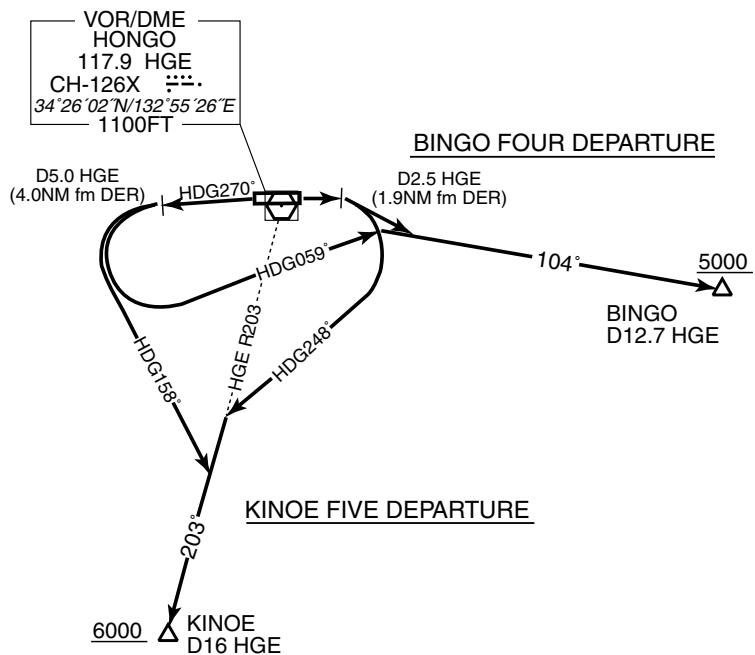
Cross BINGO at or above 5000FT.

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.

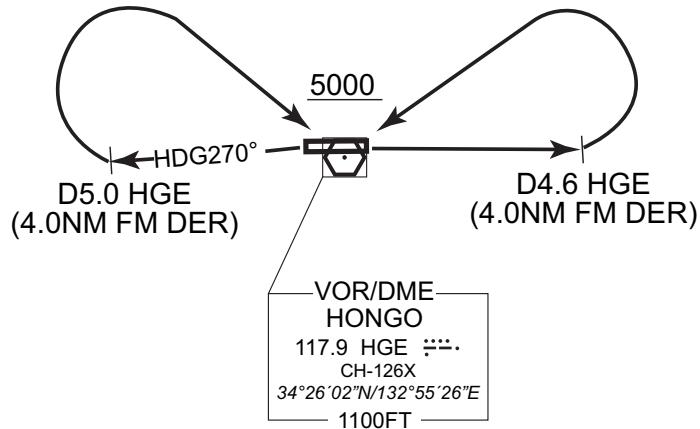
Note : RWY10 : 3.8% climb gradient required up to 2300FT.

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

| MARCO ONE 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 rolling. | | Critical DME | — |
| 2) RADAR service required. | | 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 (2016) | | | <p>The map shows the Marco One Departure route. It starts at MARCO (34°04'48"N/132°08'51"E, 2100FT) and heads towards LEMON (34°13'28.9"N/132°27'48.9"E). From LEMON, the route continues to OA811 (34°25'40.3"N/132°49'23.3"E, 1600FT) and then to OA021 (34°26'09.6"N/132°59'00.8"E, 1500FT). The route is labeled HDG278° for the climb to OA811 and HDG098° for the final leg to OA021. A callout box for TACAN KUGA provides coordinates (1177 IWT, CH-90X) and altitude (2100FT). Another callout box for VOR/DME HONGO provides coordinates (117.9 HGE, CH-126X) and altitude (1100FT).</p> |

MARCO ONE DEPARTURE

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.

MARCO 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) | -7.6 | — | — | +1500 | — | — | RNAV1 |
| 002 | DF | OA021 | Y | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | DF | LEMON | — | — | -7.6 | — | R | +11000 | — | — | RNAV1 |
| 004 | TF | MARCO | — | 249 (241.1) | -7.6 | 18.0 | — | — | — | — | 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 | LEMON | — | — | -7.6 | — | L | +11000 | — | — | RNAV1 |
| 004 | TF | MARCO | — | 249 (241.1) | -7.6 | 18.0 | — | — | — | — | RNAV1 |

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

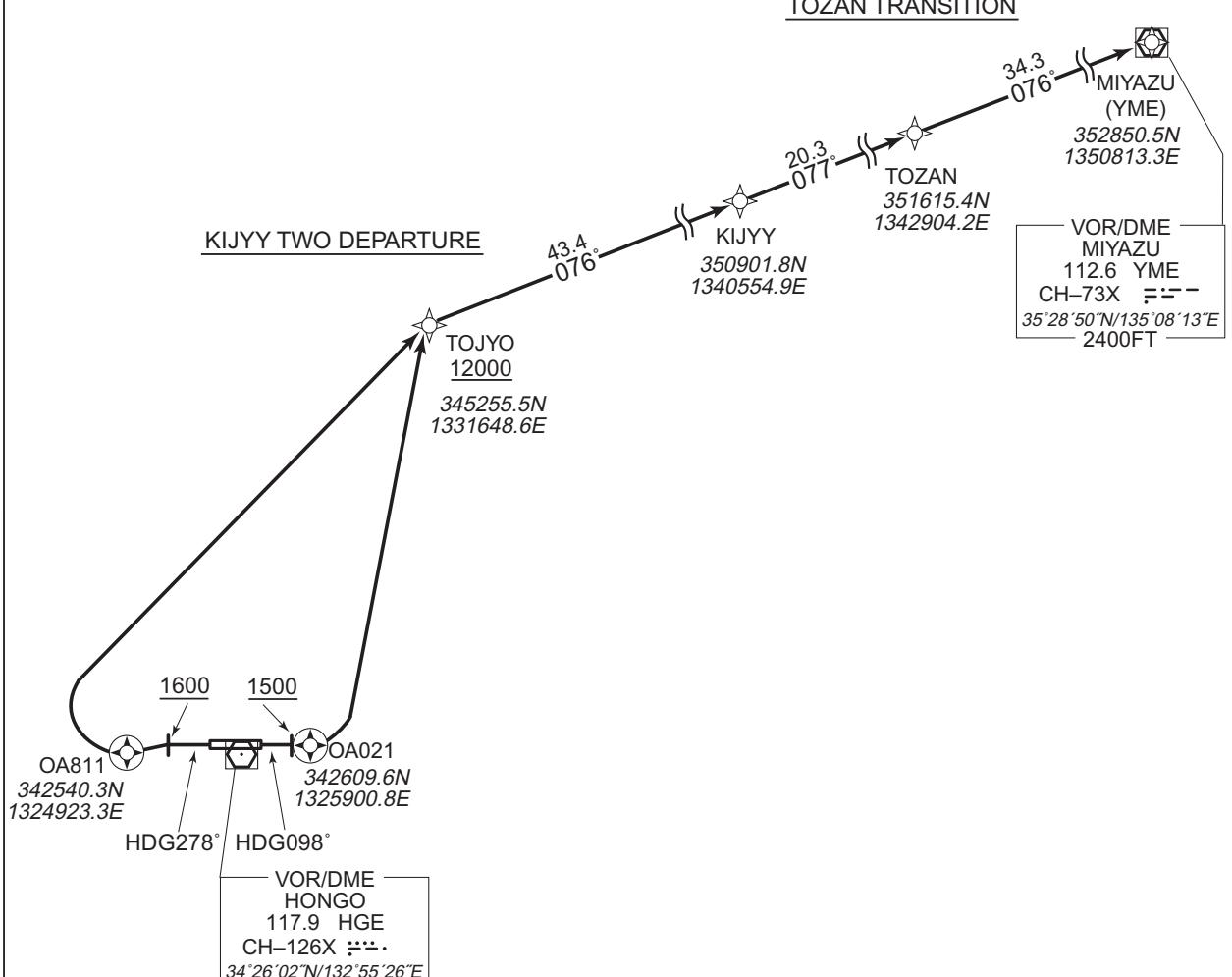
RNAV SID and TRANSITION

| KIJYY 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. | Critical DME | HGE : OA021 ~ 27NM to TOJYO TZT : OA021 ~ 24NM to TOJYO |
| 2) RADAR service required. | DME GAP | RWY10 : DER – OA021 RWY28 : DER – 2NM to OA811 |
| | Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVADS for RNAV1 |

VAR 8°W (2016)

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

KIJYY TWO DEPARTURE



KIJYY TWO 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 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

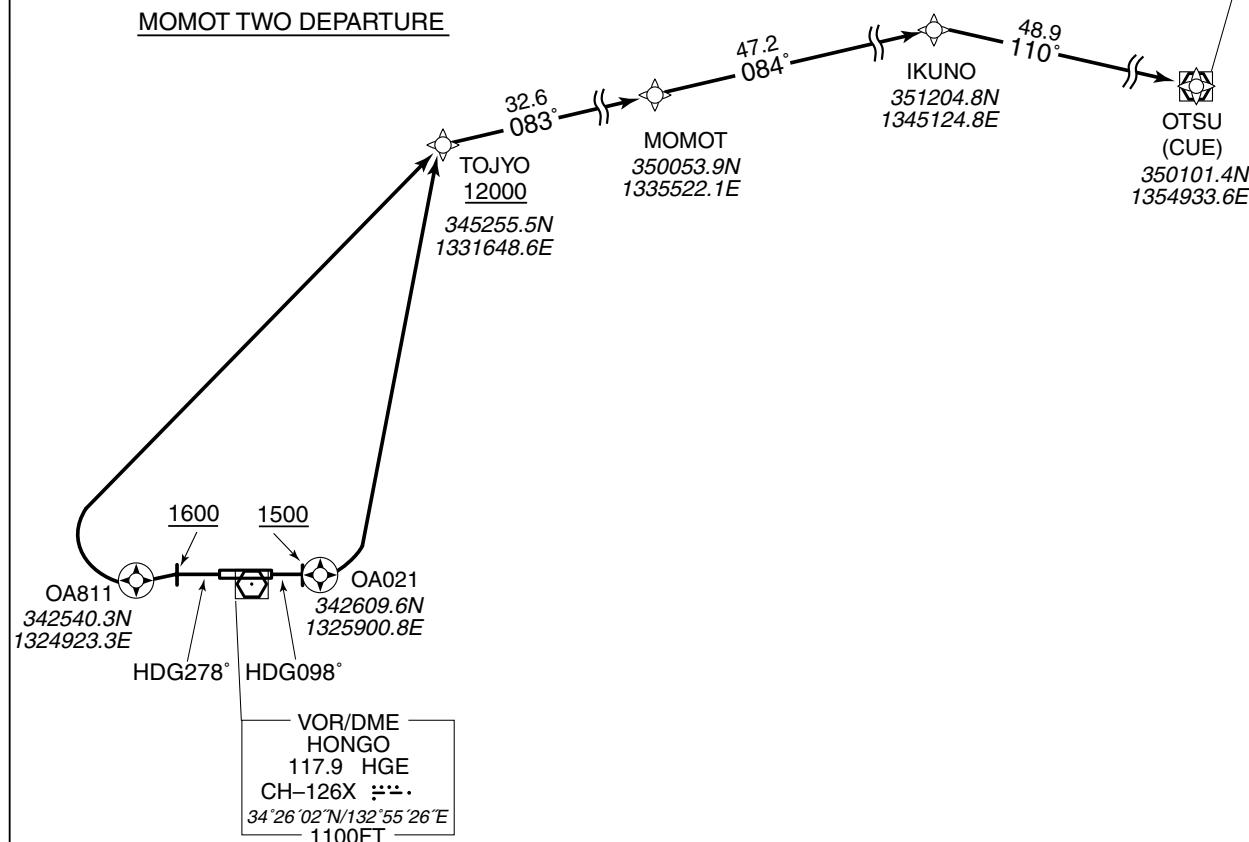
RNAV SID and TRANSITION

| MOMOT 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. | Critical DME | HGE : OA021 ~ 27NM to TOJYO TGT : OA021 ~ 24NM to TOJYO OKT : 25NM to IKUNO ~ 19NM to IKUNO |
| 2) RADAR service required. | DME GAP | RWY10 : DER – OA021 RWY28 : DER – 2NM to OA811 |
| | Inappropriate Navaids | See AD1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

VAR 8°W (2016)

IKUNO TRANSITION

VOR/DME
OTSU
117.1 CUE
CH-118X 35°01'01"N/135°49'34"E
1600FT



MOMOT TWO 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 CUE.

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

MOMOT 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 | MOMOT | — | 083 (075.7) | -7.6 | 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) | -7.6 | — | — | +1600 | — | — | RNAV1 |
| 002 | DF | OA811 | Y | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | DF | TOJYO | — | — | -7.6 | — | R | +12000 | — | — | RNAV1 |
| 004 | TF | MOMOT | — | 083 (075.7) | -7.6 | 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 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 002 | TF | IKUNO | — | 084 (076.0) | -7.6 | 47.2 | — | — | — | — | RNAV1 |
| 003 | TF | CUE | — | 110 (102.8) | -7.6 | 48.9 | — | — | — | — | RNAV1 |

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. | Critical DME | MYE : OA021 ~ 31NM to AKANA TRE : SINFO ~ STAGE |
| 2) RADAR service required. | 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 (2016)



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.

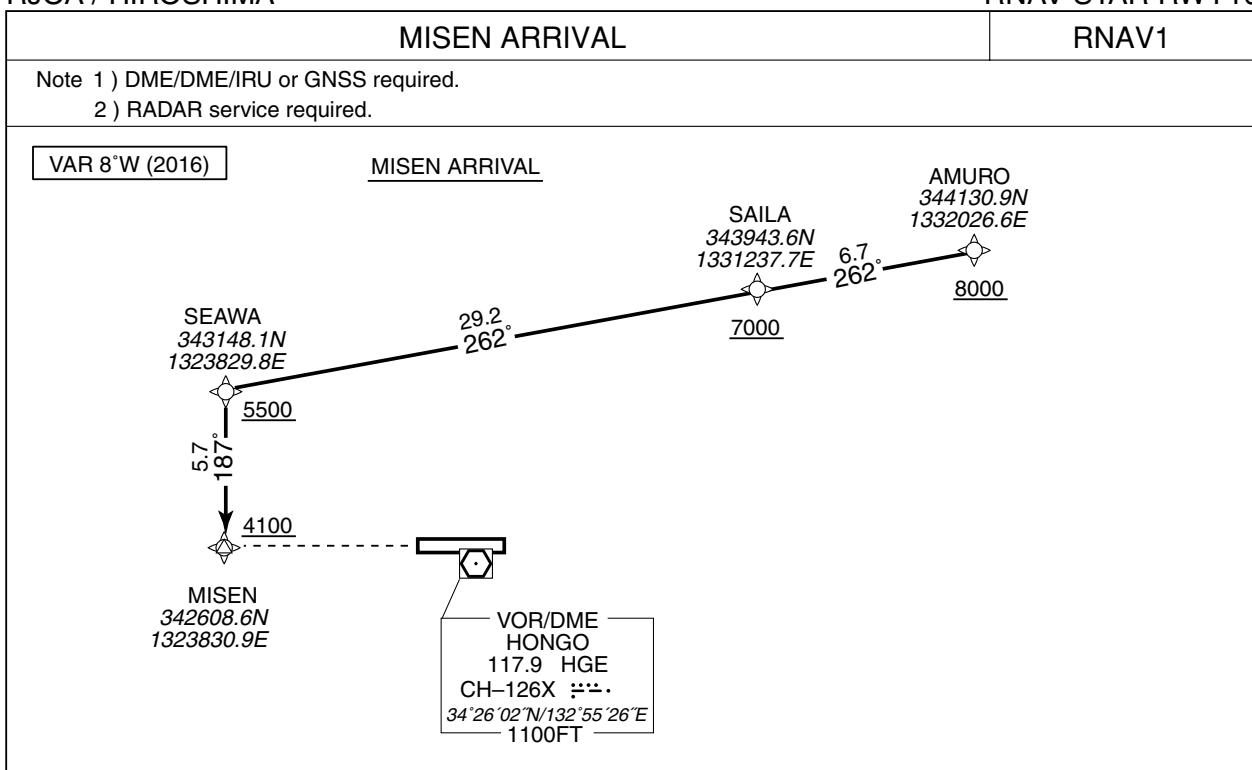
Cross MISEN at or above 4100FT.



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 | HGE | SAILA - 25NM to SEAWA |
| | IWT | 25NM to SEAWA - 20NM to SEAWA SEAWA - MISEN |
| 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 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMA

RNAV STAR RWY10



AXELA ARRIVAL

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.

| | | | |
|-----------------------|--|--|--|
| 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 | CAROL | - | 221 (213.0) | -7.6 | 6.7 | - | -8000 +6000 | - | - | RNAV1 |
| 003 | TF | TIIDA | - | 221 (213.0) | -7.6 | 5.9 | - | +4000 | - | - | RNAV1 |
| 004 | TF | VISTA | - | 221 (212.9) | -7.6 | 5.7 | - | - | - | - | RNAV1 |
| 005 | TF | ATENZ | - | 221 (212.9) | -7.6 | 6.6 | - | - | - | - | RNAV1 |
| 006 | TF | AXELA | - | 278 (270.1) | -7.6 | 6.9 | - | +3300 | - | - | RNAV1 |

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.

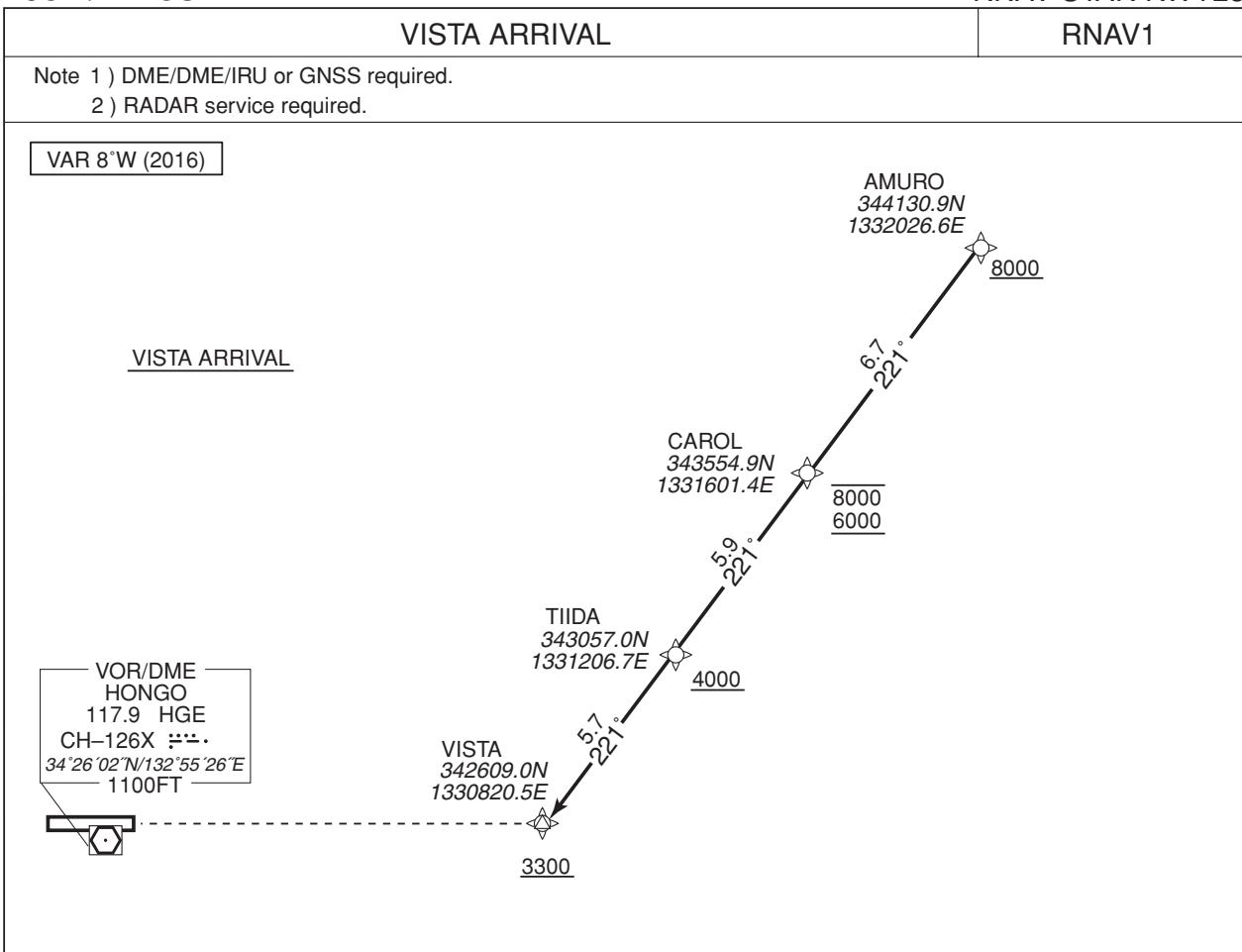
| | |
|-----------------------|--|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1. |

| 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 | 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



VISTA ARRIVAL

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

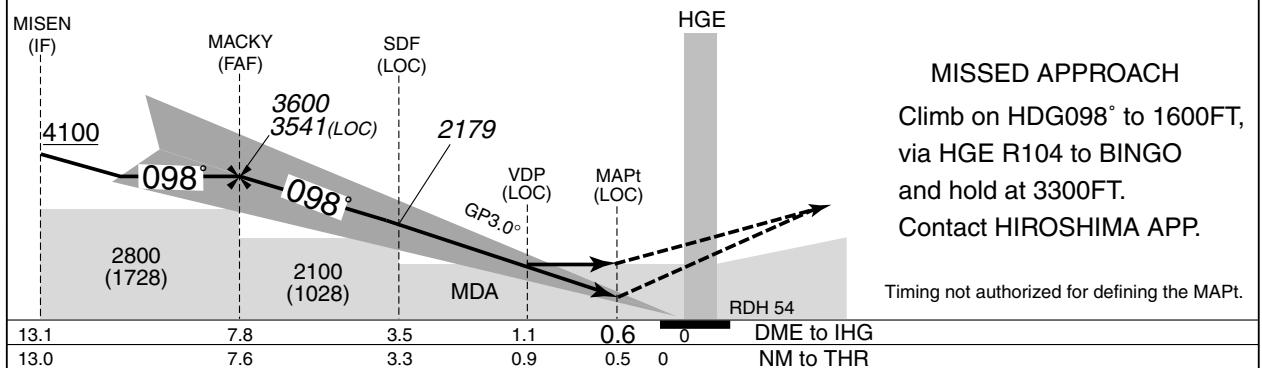
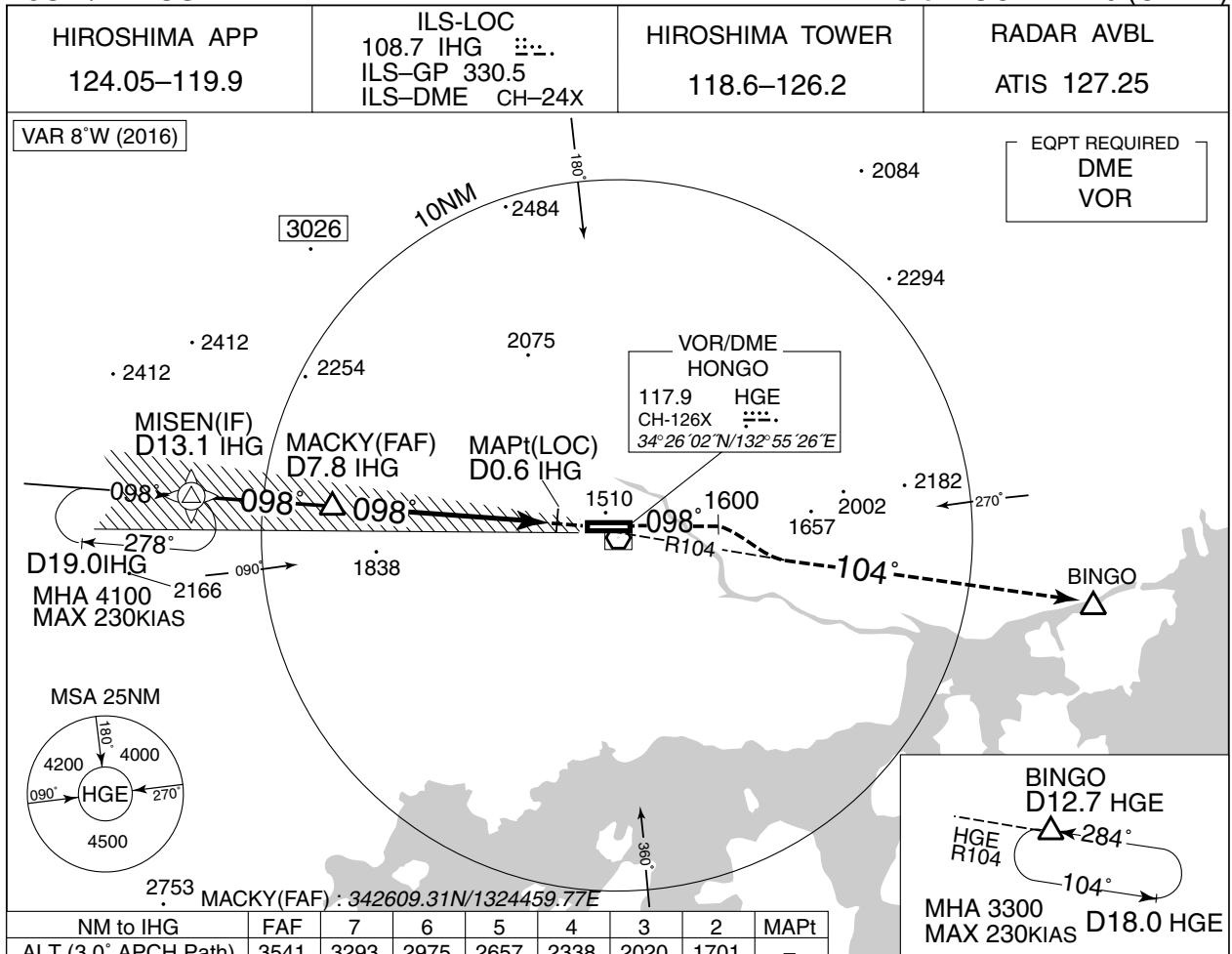
| | |
|-----------------------|--|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1. |

| 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 | CAROL | - | 221 (213.0) | -7.6 | 6.7 | - | -8000 +6000 | - | - | RNAV1 |
| 003 | TF | TIIDA | - | 221 (213.0) | -7.6 | 5.9 | - | +4000 | - | - | RNAV1 |
| 004 | TF | VISTA | - | 221 (212.9) | -7.6 | 5.7 | - | +3300 | - | - | RNAV1 |

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

ILS or LOC RWY10 (CAT III)



MISSSED APPROACH

Climb on HDG098° to 1600FT,
via HGE R104 to BINGO
and hold at 3300FT.
Contact HIROSHIMA APP.

Timing not authorized for defining the MAPt.

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

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

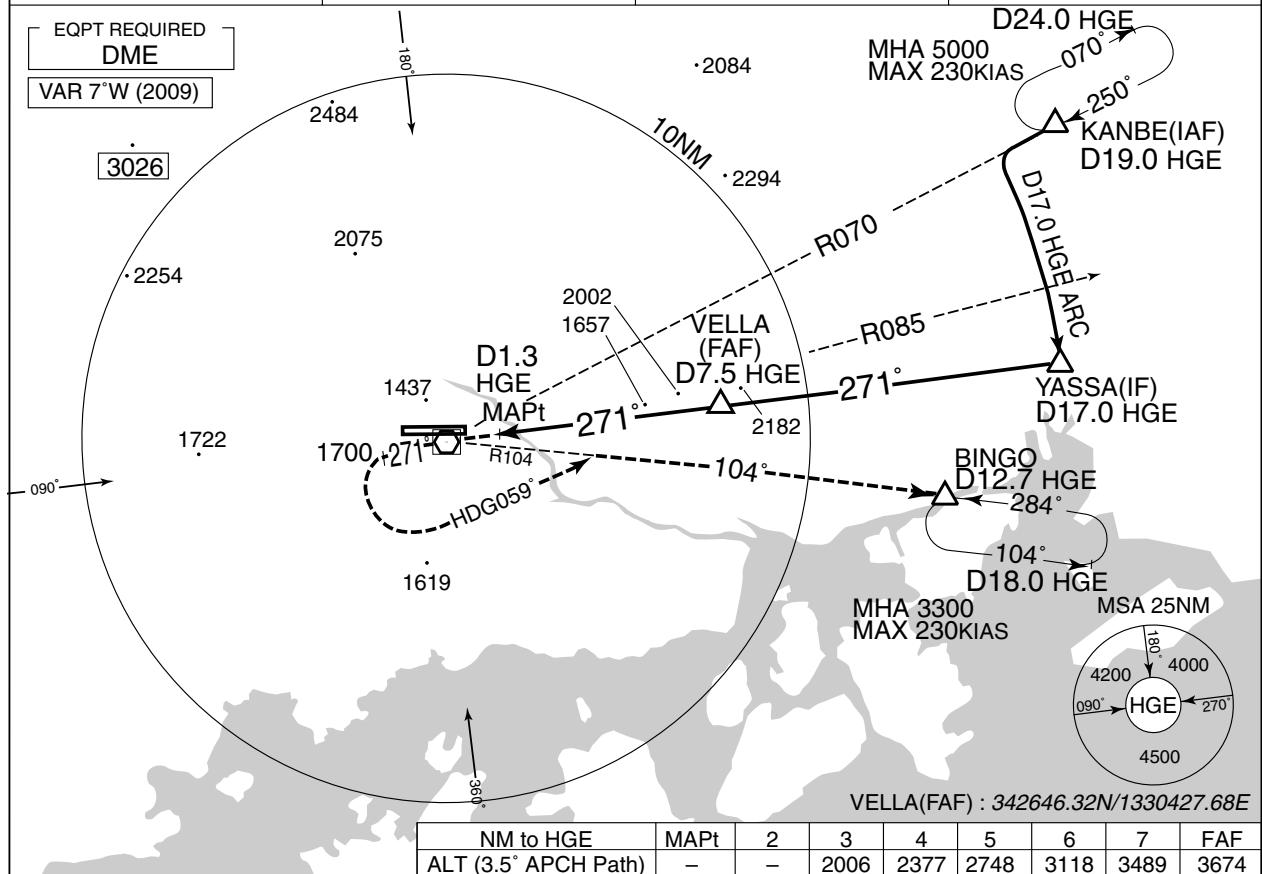


INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

VOR Z RWY28

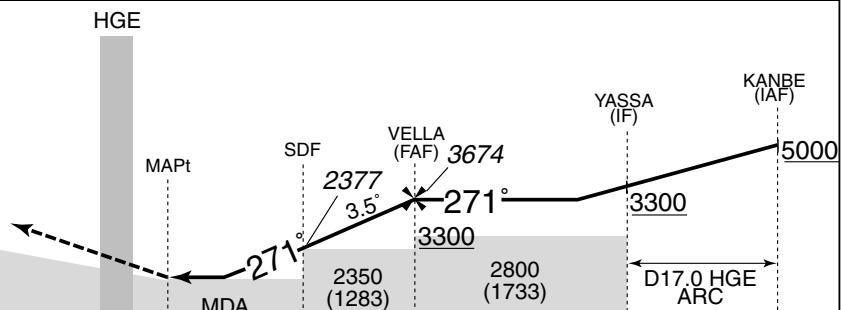
| HOKA / HIROSHIMA | HONGO VOR/DME 117.9 HGE CH-126X ♫ 34°26'02"N/132°55'26"E | HIROSHIMA TOWER 118.6 - 126.2 | VOR 21 RW12 RADAR AVBL ATIS 127.25 |
|---------------------------------|---|----------------------------------|--|
| HIROSHIMA APP 124.05 – 119.9 | | | |



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 | 17.0 |
| NM to THR | 0 | 0.8 | 3.4 | 6.9 | 16.4 |

| 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 |

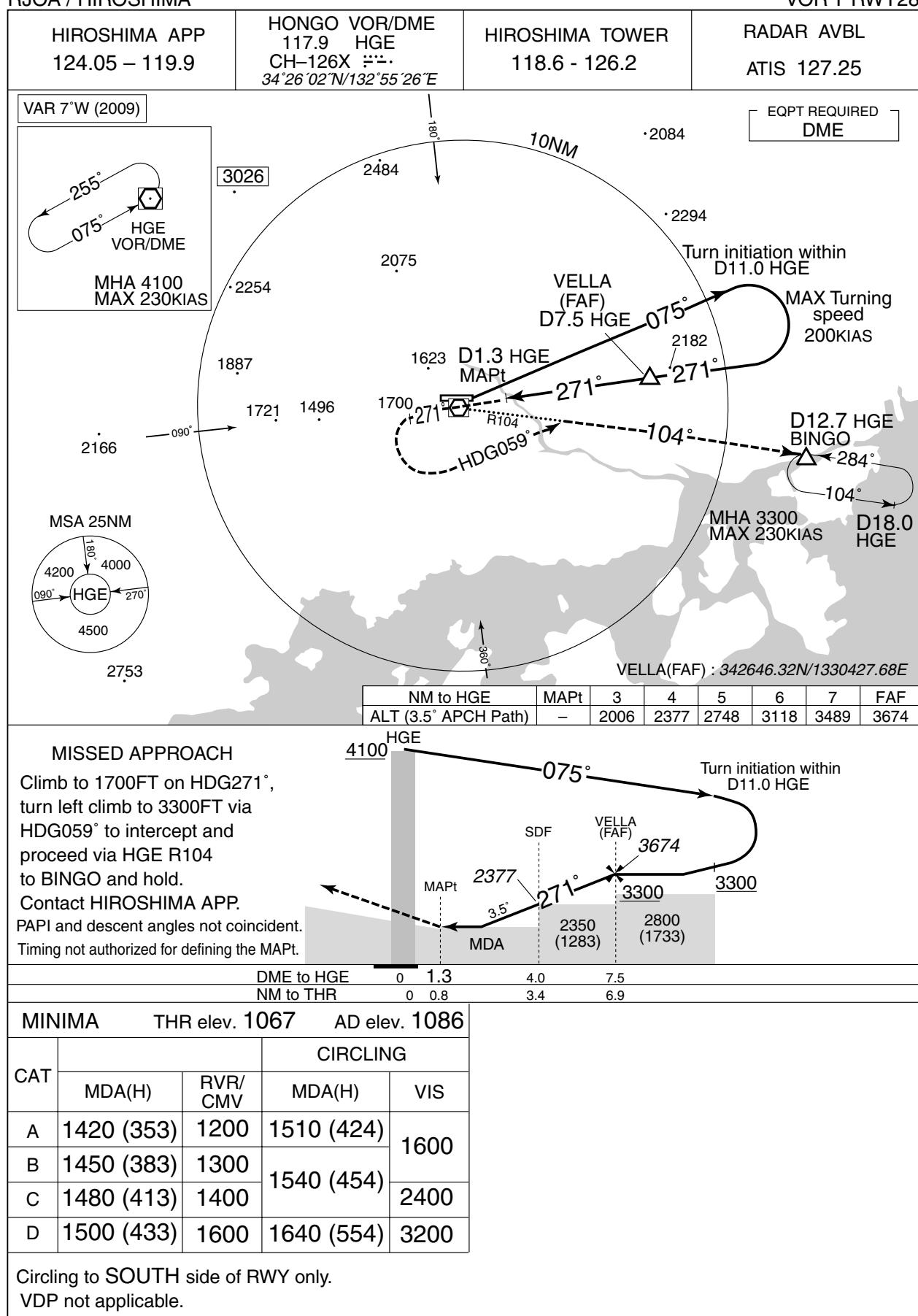
Circling to **SOUTH** side of RWY only

VDP not applicable.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

VOR Y RWY28



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNAV(RNP) Z RWY10

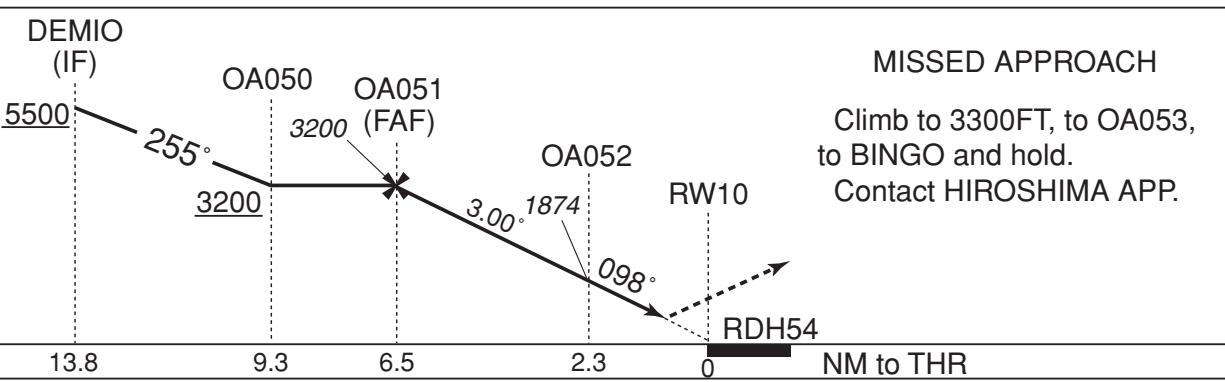
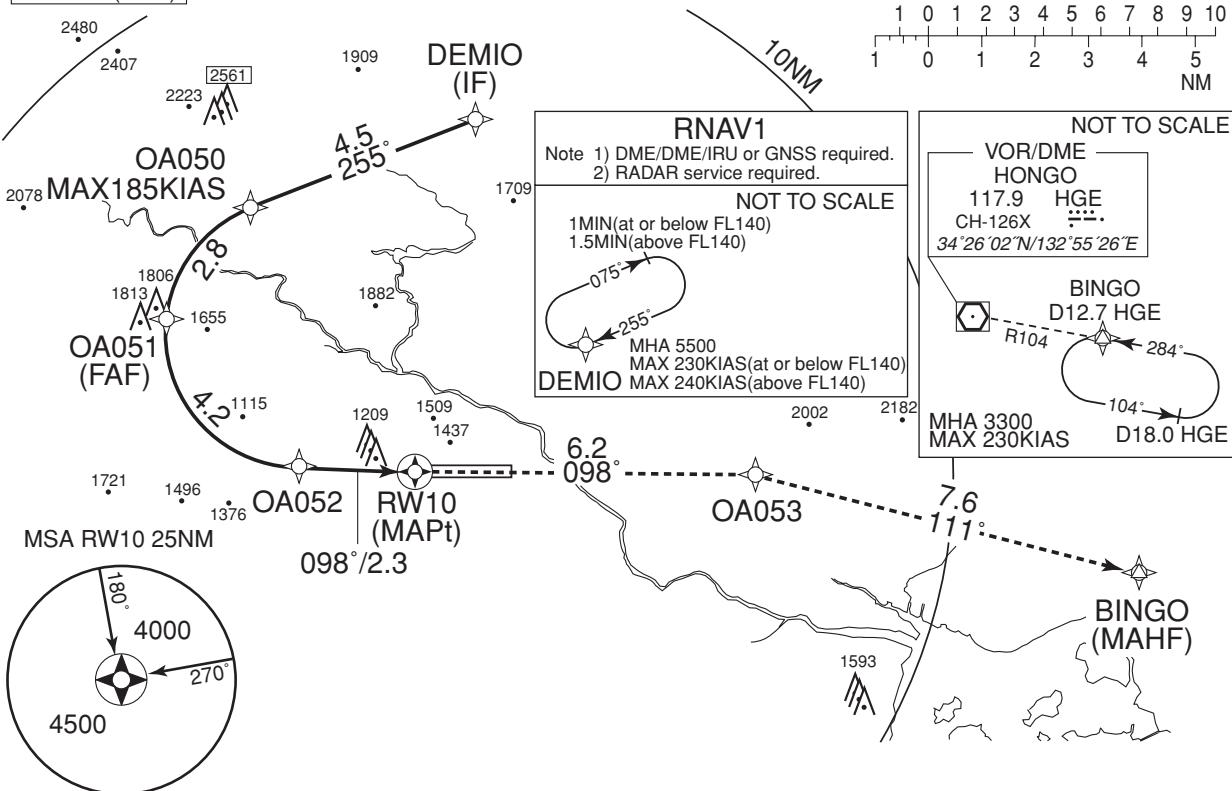
HIROSHIMA APP
124.05–119.9

GNSS and RF required.

HIROSHIMA TOWER
118.6–126.2RADAR AVBL
ATIS 127.25

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

VAR 8°W (2016)



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) 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

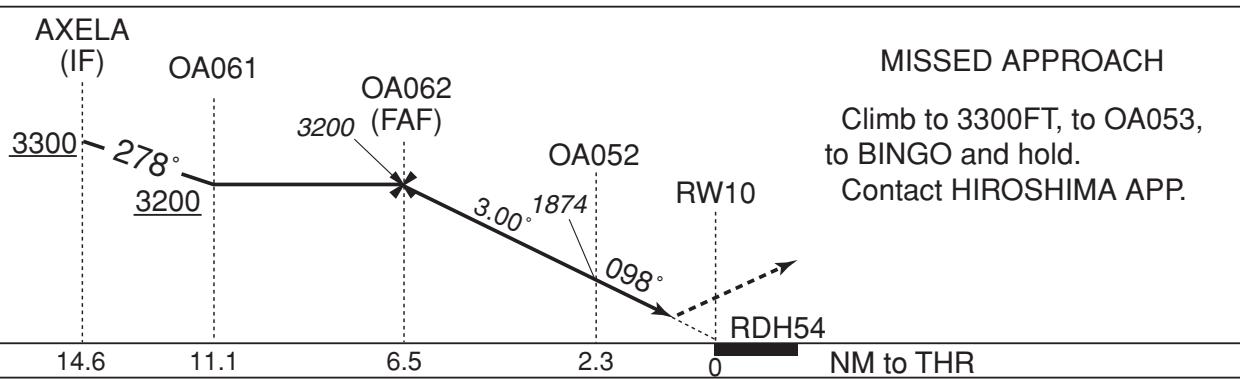
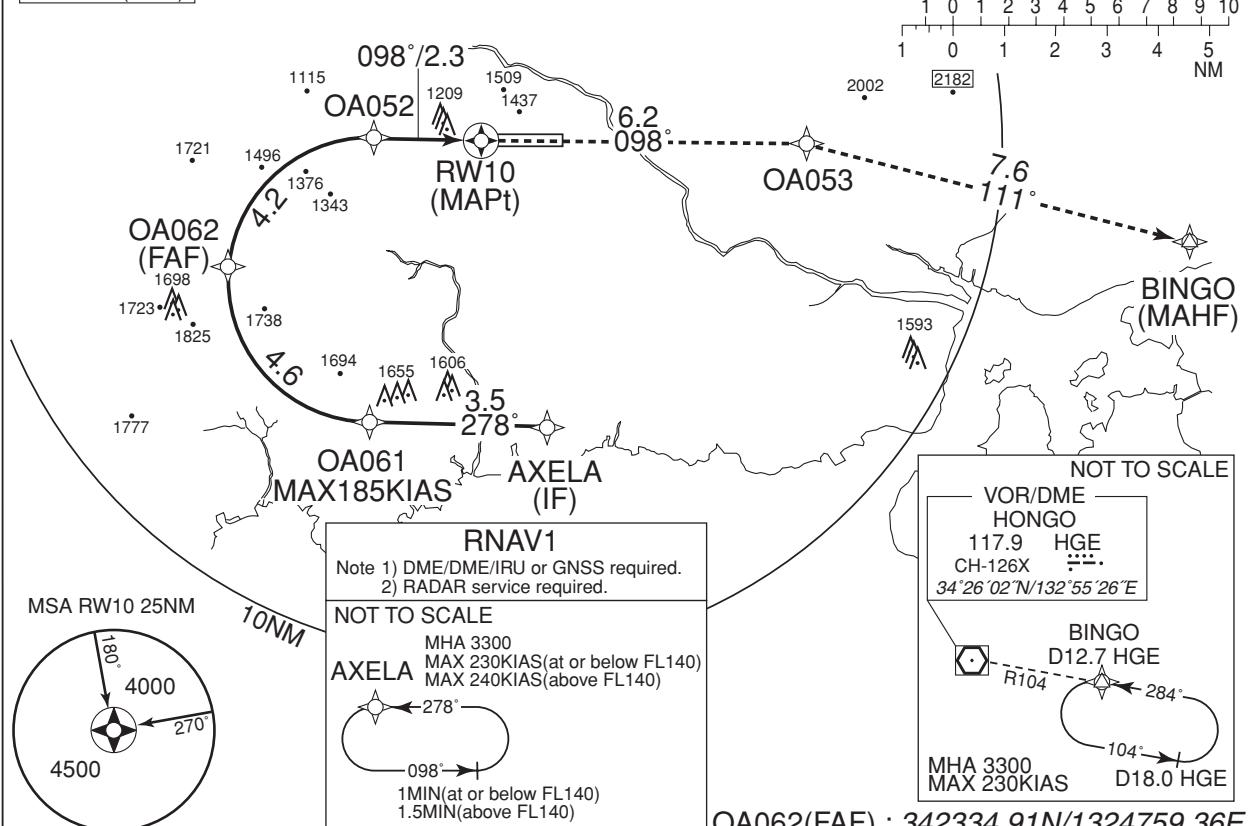
HIROSHIMA APP
124.05–119.9

GNSS and RF required.

HIROSHIMA TOWER
118.6–126.2RADAR AVBL
ATIS 127.25

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

VAR 8°W (2016)



| 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 RWY10

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 | — | — | -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 | | |

RJOA / HIROSHIMA

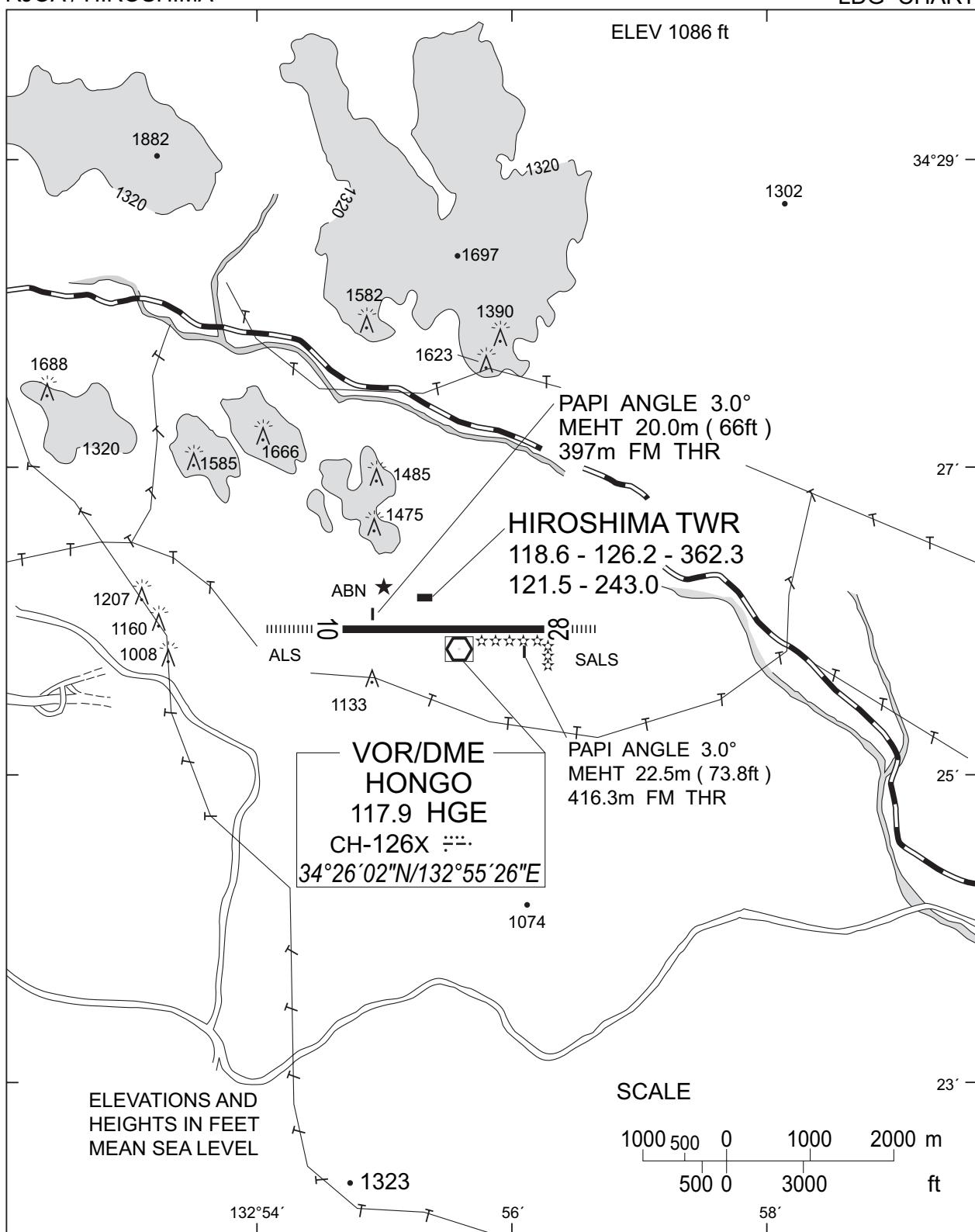
Visual REP



| Call sign | BRG / DIST from ARP | Remarks |
|-----------------------|---------------------|------------------------------|
| 白竜 Hakuryu | 352° / 4.3NM | 湖 Lake |
| 小佐木 Kosagi | 122°/10.1NM | 小佐木島 Kosagi - Island |
| 竹原 Takehara | 192° / 5.8NM | 竹原駅 Railway station |
| 三永サウス Minaga South | 257° / 8.4NM | 東広島駅 Railway station |
| 新庄 Shinjo | 215° / 2.9NM | 新庄交差点 Shinjo Intersection |

RJOA / HIROSHIMA

LDG CHART



RJOA / HIROSHIMA

Minimum Vectoring Altitude CHART

VAR 7°W (2009)



CENTER : 342602N/1325458E (RADAR SITE)