

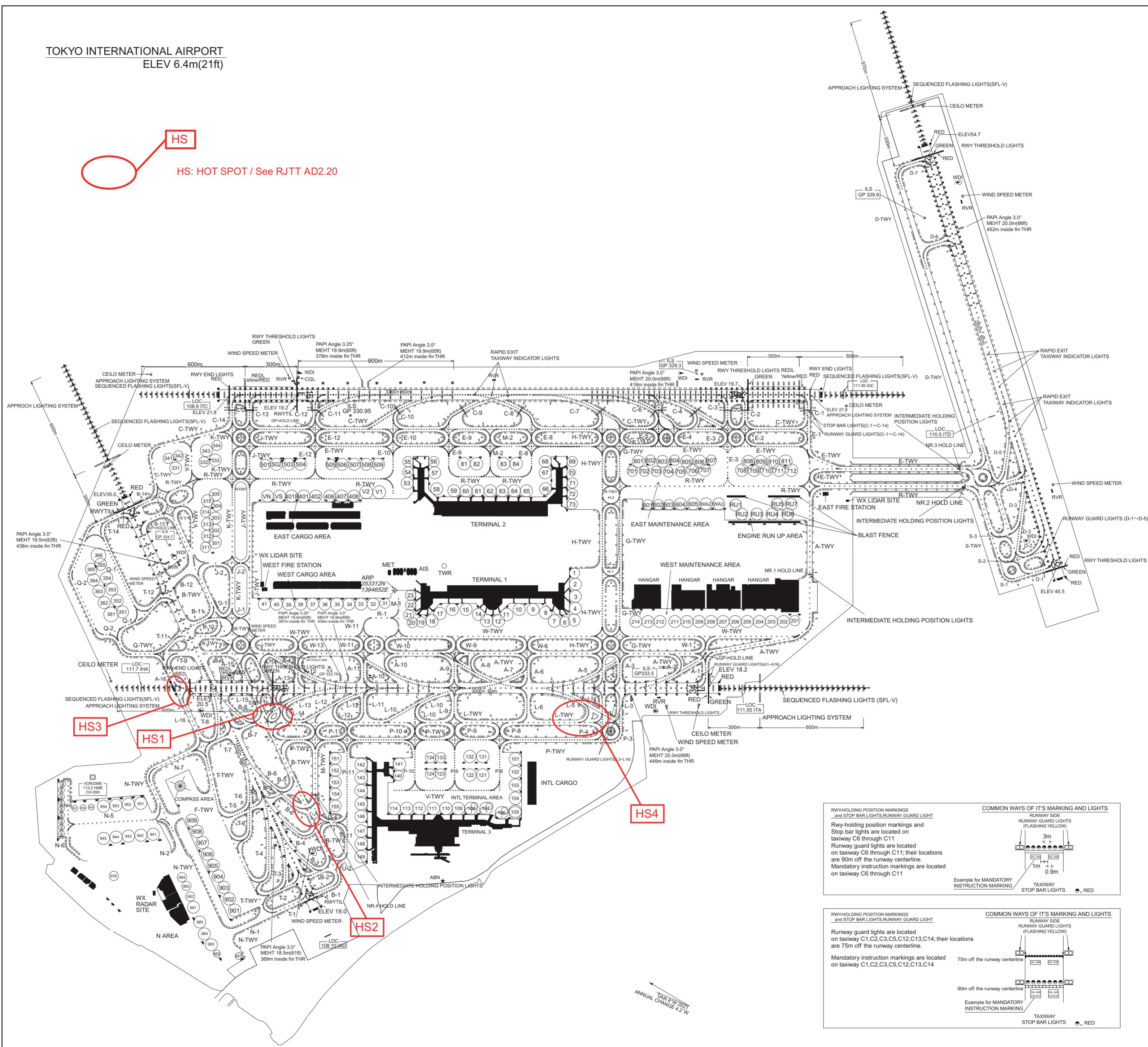
AERODROME CHART

TOKYO INTERNATIONAL AIRPORT
ELEV 6.4m(21ft)

HS: HOT SPOT / See RJTT AD2.20

HS
HS:

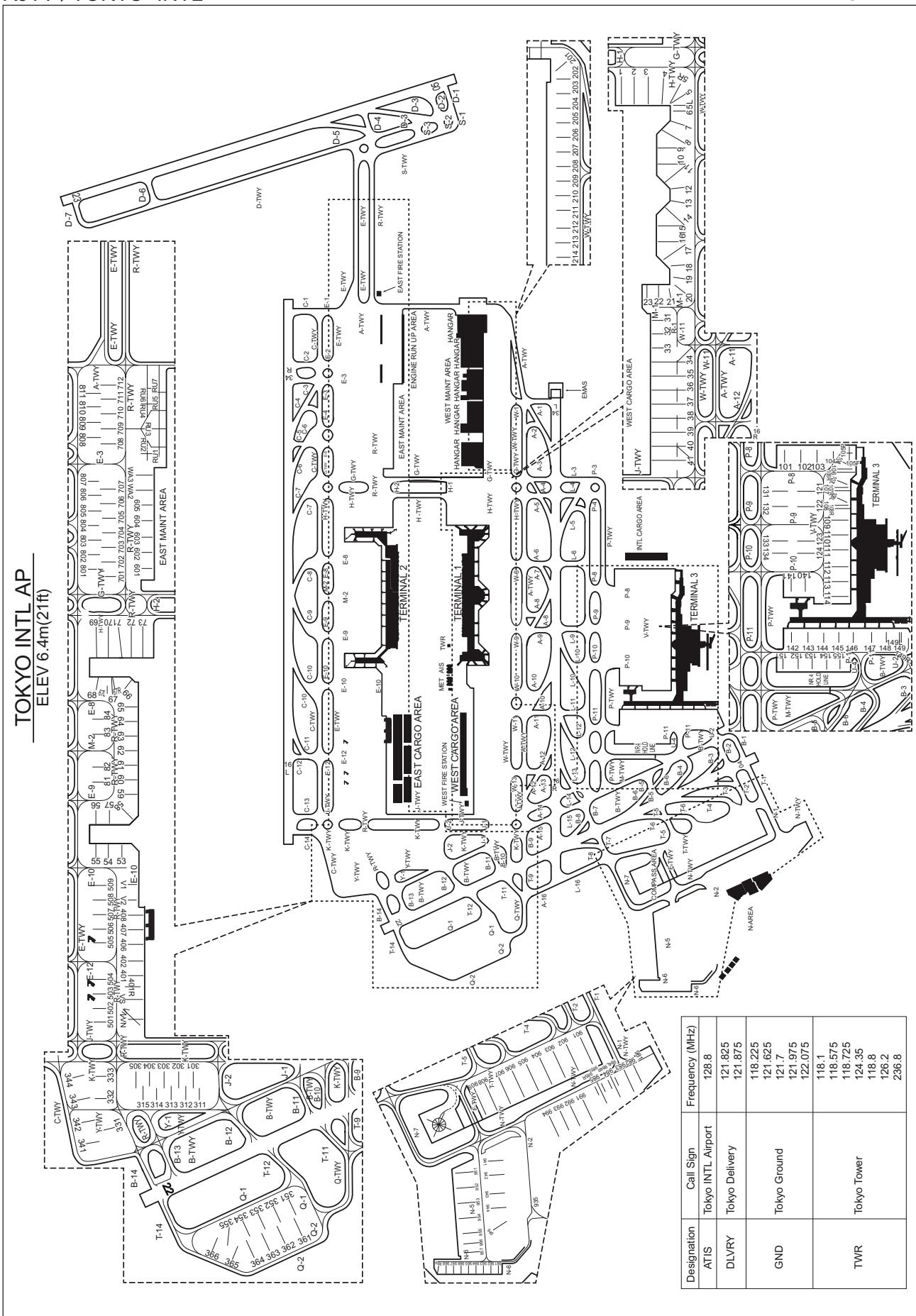
CHANGE . HUI 3FUL (H34) added.



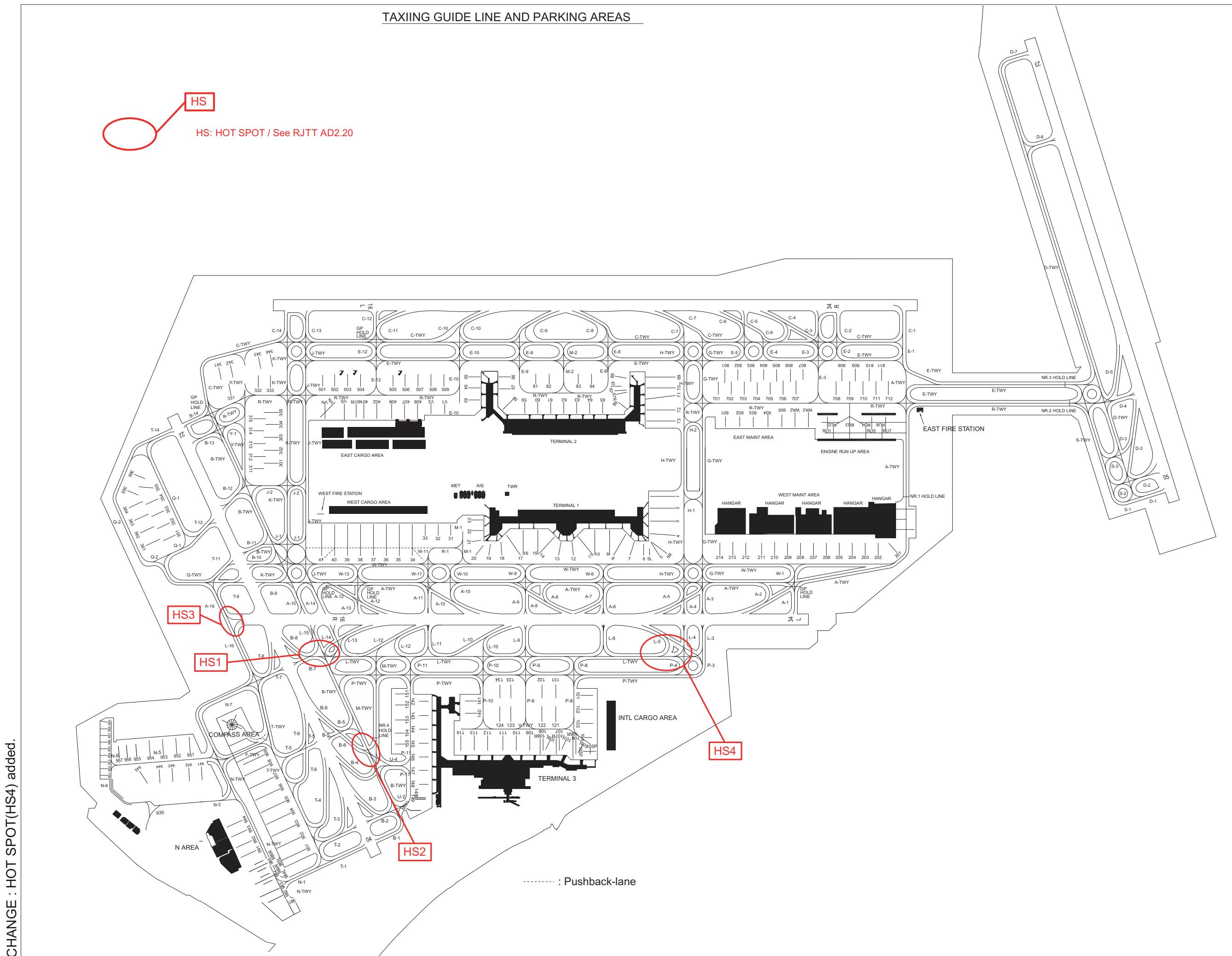
RJTT / TOKYO INTL

AD CHART

CHANGE : TWY edge line for L,L13,L14.

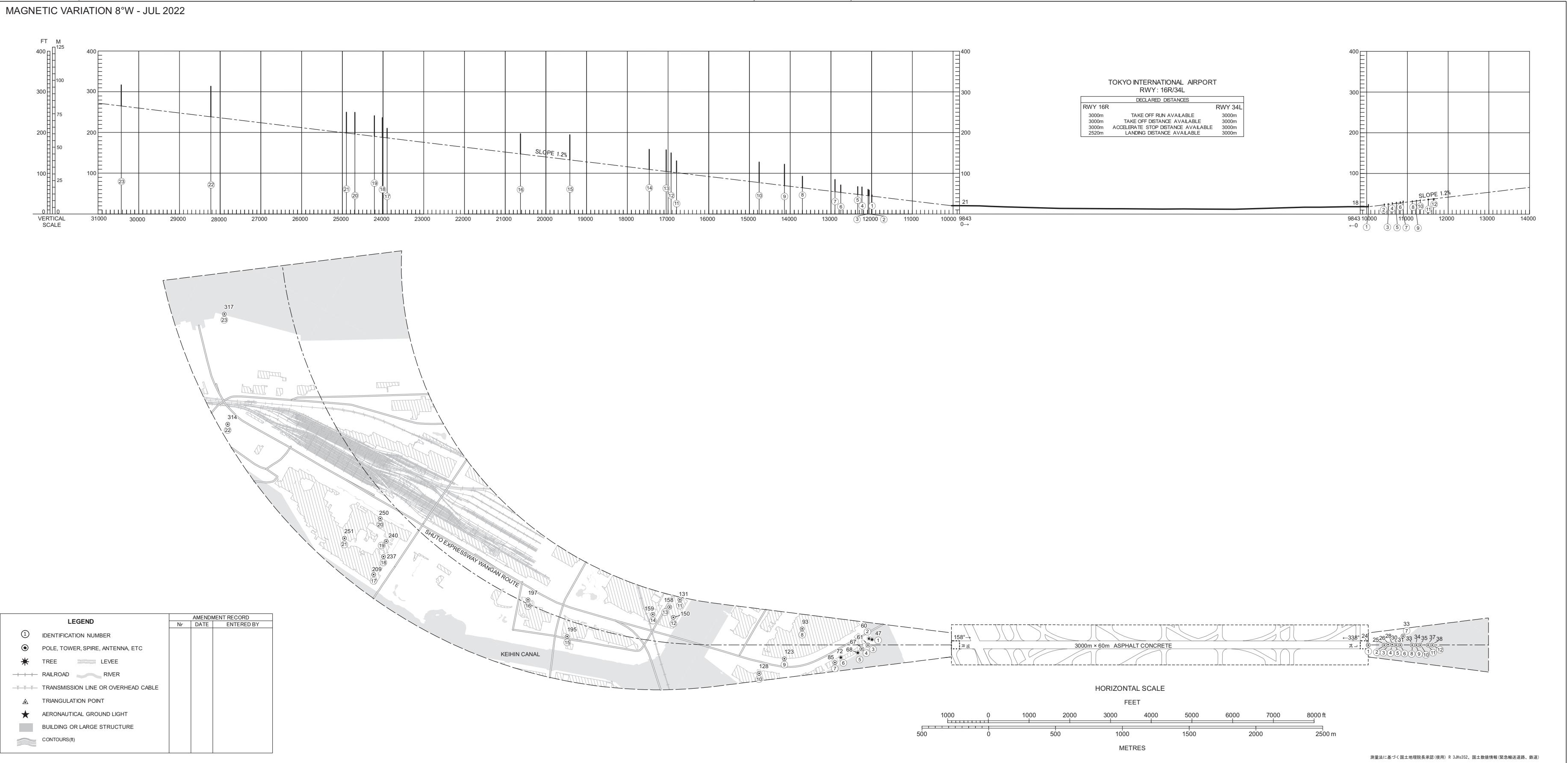


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DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

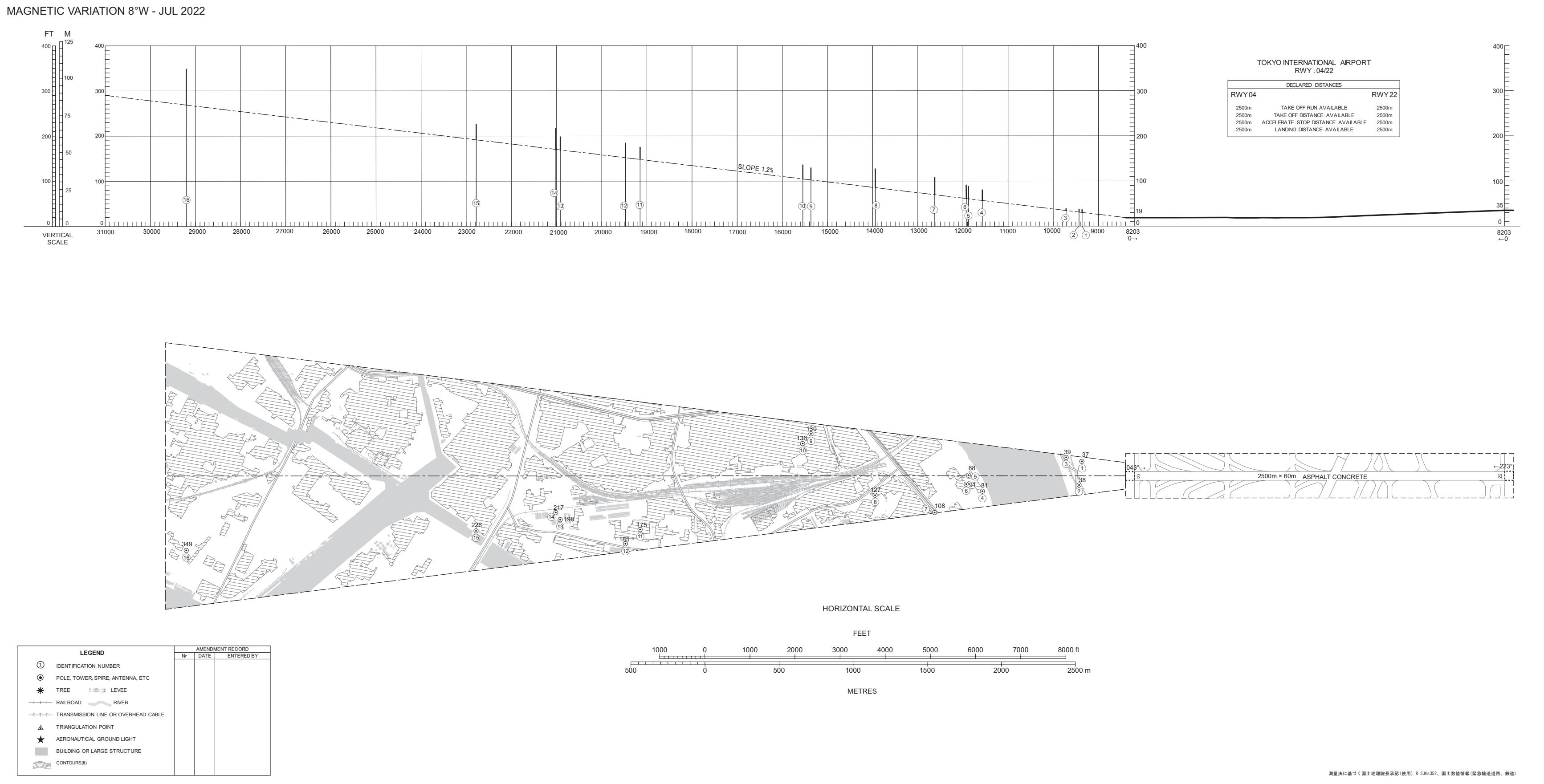
AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICA TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8°W - JUL 2022



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE B



CHANGE : Obstruction added.

PRECISION APPROACH TERRAIN CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

SEKIYADO THREE DEPARTURE

RWY04/34R/34L: Climb RWY HDG to 700FT, turn right HDG100° to HME 9.0DME, turn left HDG017° to intercept and proceed via SYE R167 to SYE VOR/DME. Cross SYE VOR/DME between 12000FT and FL150.

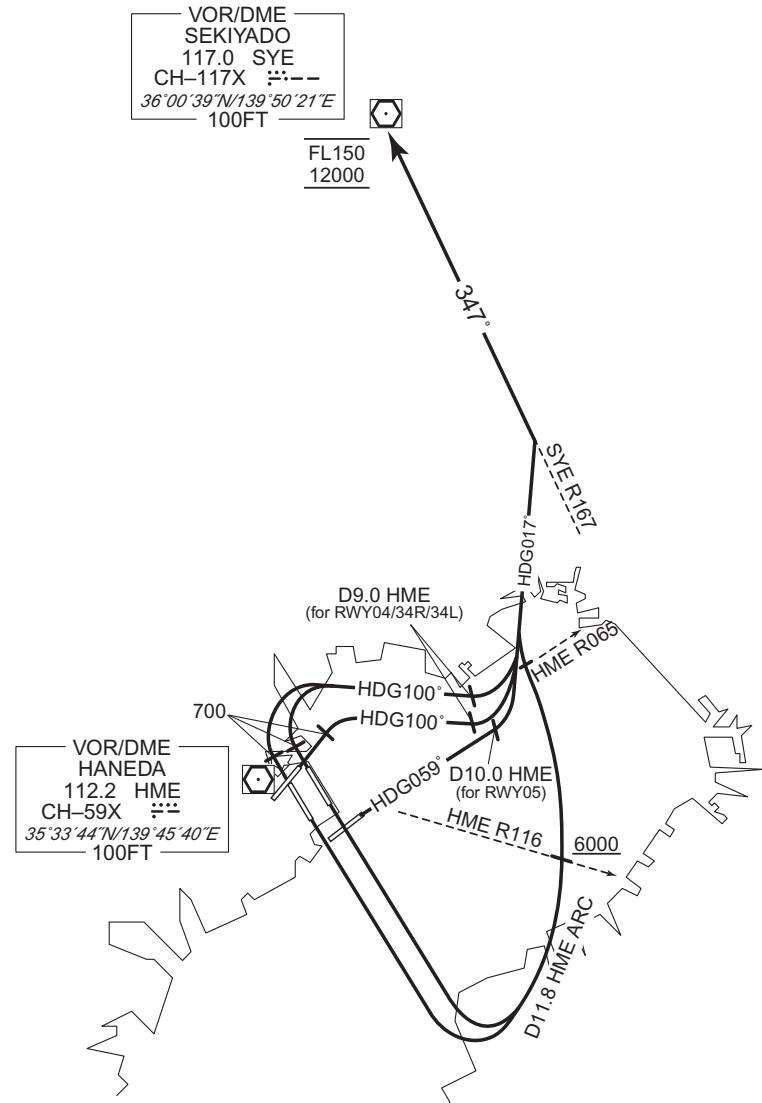
RWY16R/16L: Climb RWY HDG to intercept and proceed via HME 11.8DME counterclockwise ARC to HME R065, turn right HDG017° to intercept and proceed via SYE R167 to SYE VOR/DME. Cross HME R116 at or above 6000FT, cross SYE VOR/DME between 12000FT and FL150.

RWY05 : Climb on HDG059° to HME 10.0DME, turn left HDG017° to intercept and proceed via SYE R167 to SYE VOR/DME. Cross SYE VOR/DME between 12000FT and FL150.

Note RWY34R/34L/04: 5.0% climb gradient required up to 700FT.

RWY05: 5.0% climb gradient required up to 500FT.

CHANGE : Description of PROC name and ALT.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

VADAR ONE DEPARTURE

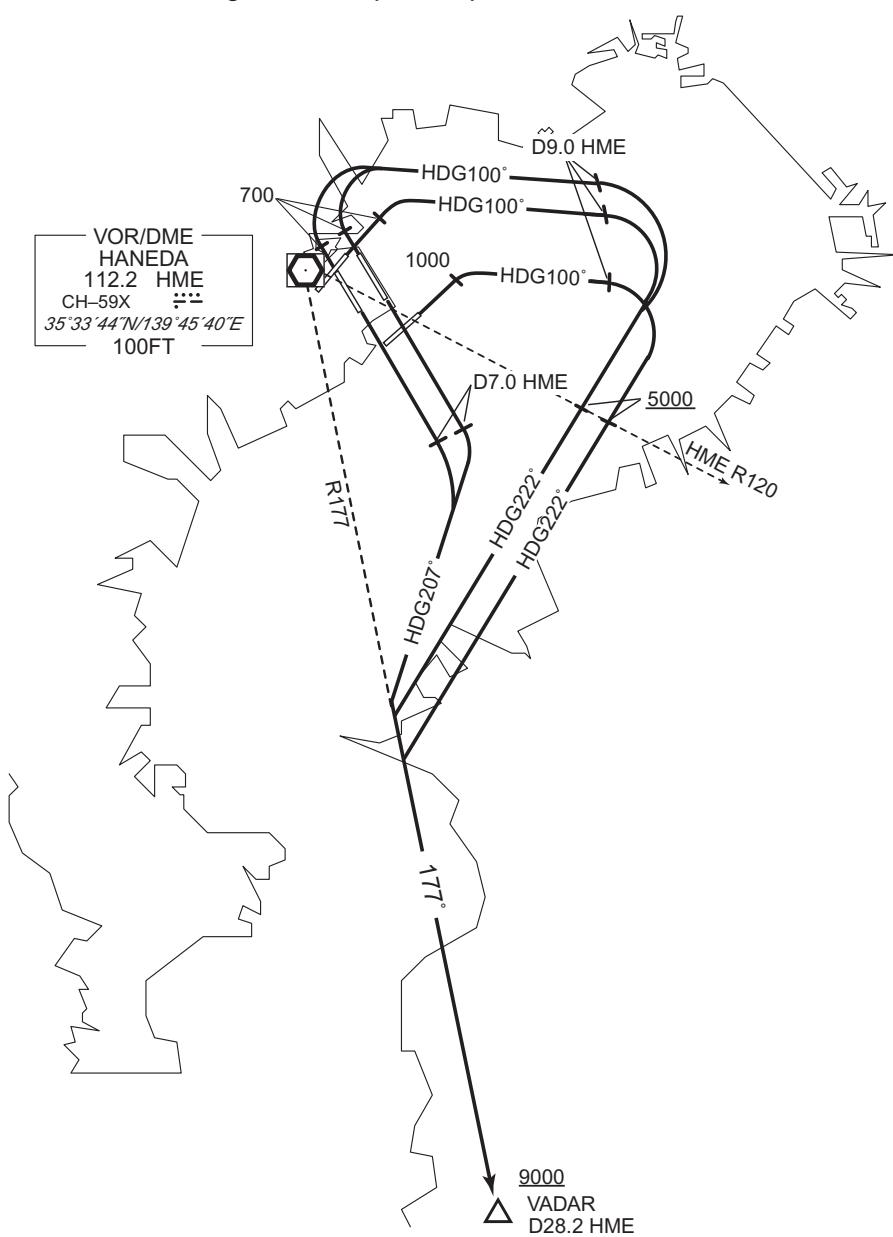
RWY04/34R/34L: Climb RWY HDG to 700FT, turn right HDG100° to HME 9.0DME, turn right HDG222° to intercept and proceed via HME R177 to VADAR.
 Cross HME R120 at or above 5000FT, cross VADAR at or above 9000FT.

RWY16R/16L: Climb RWY HDG to HME 7.0DME, turn right HDG207° to intercept and proceed via HME R177 to VADAR.
 Cross VADAR at or above 9000FT.

RWY05: Climb RWY HDG to 1000FT, turn right HDG100° to HME 9.0DME, turn right HDG222° to intercept and proceed via HME R177 to VADAR.
 Cross HME R120 at or above 5000FT, cross VADAR at or above 9000FT.

Note RWY04/34R/34L: 5.0% climb gradient required up to 700FT.

RWY05: 5.0% climb gradient required up to 1000FT.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

OPPAR THREE DEPARTURE

RWY04/34R/34L: Climb RWY HDG to 700FT, turn right within 4NM, climb via HDG110° to HME 7.0DME, turn right, via HME 8.0DME clockwise ARC to intercept and proceed via HME R194 to OPPAR.

Cross HME 7.0DME at or above 3000FT, cross HME R120 at or above 5000FT, cross OPPAR at or above 9000FT.

RWY16R/16L: Climb RWY HDG to 500FT, turn left climb via HME R140 to 8.0DME, turn left HDG239° within HME 12.0DME to intercept and proceed via HME R194 to OPPAR.

Cross OPPAR at or above 9000FT.

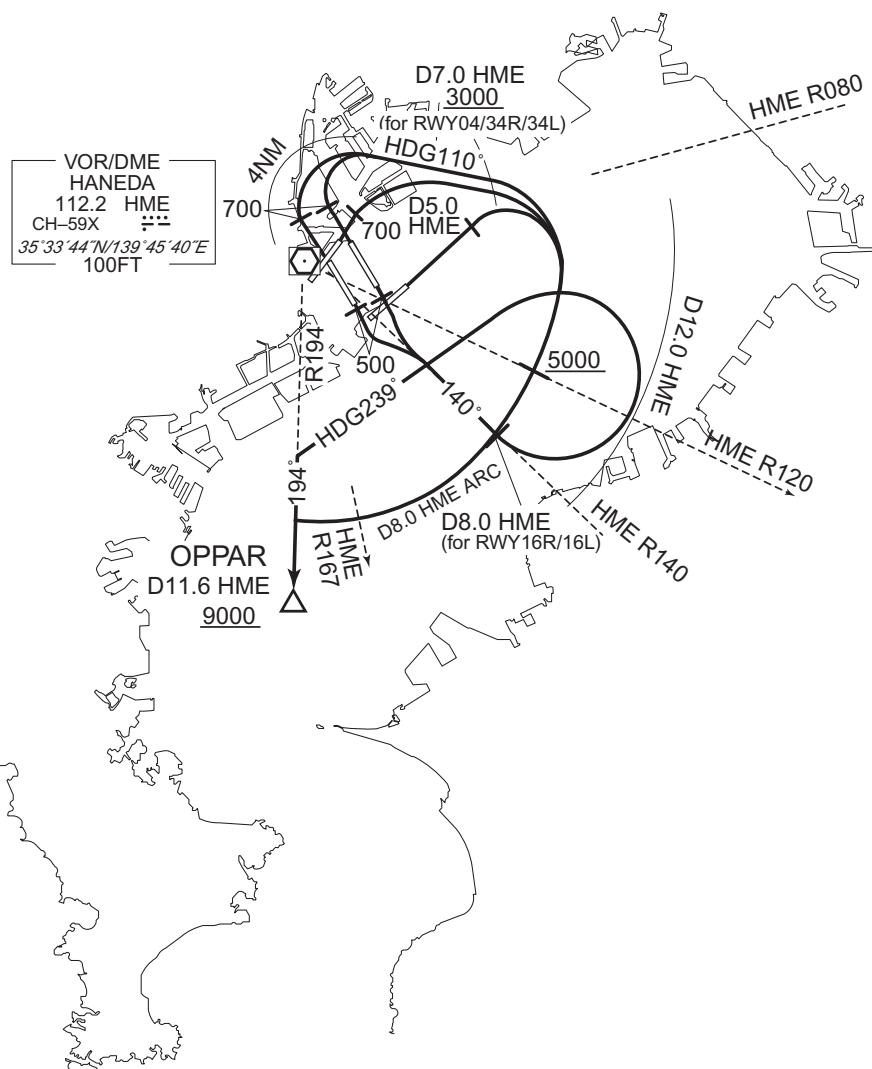
RWY05: Climb RWY HDG to HME 5.0DME, turn right, via HME 8.0DME clockwise ARC to intercept and proceed via HME R194 to OPPAR.

Cross HME R120 at or above 5000FT, cross OPPAR at or above 9000FT.

Note Aircraft taking off from RWY16R/16L are required to complete left turns south of HME R080.

RWY34R/34L/04: 5.0% climb gradient required up to 700FT.

CHANGE : Description of PROC name and ALT.



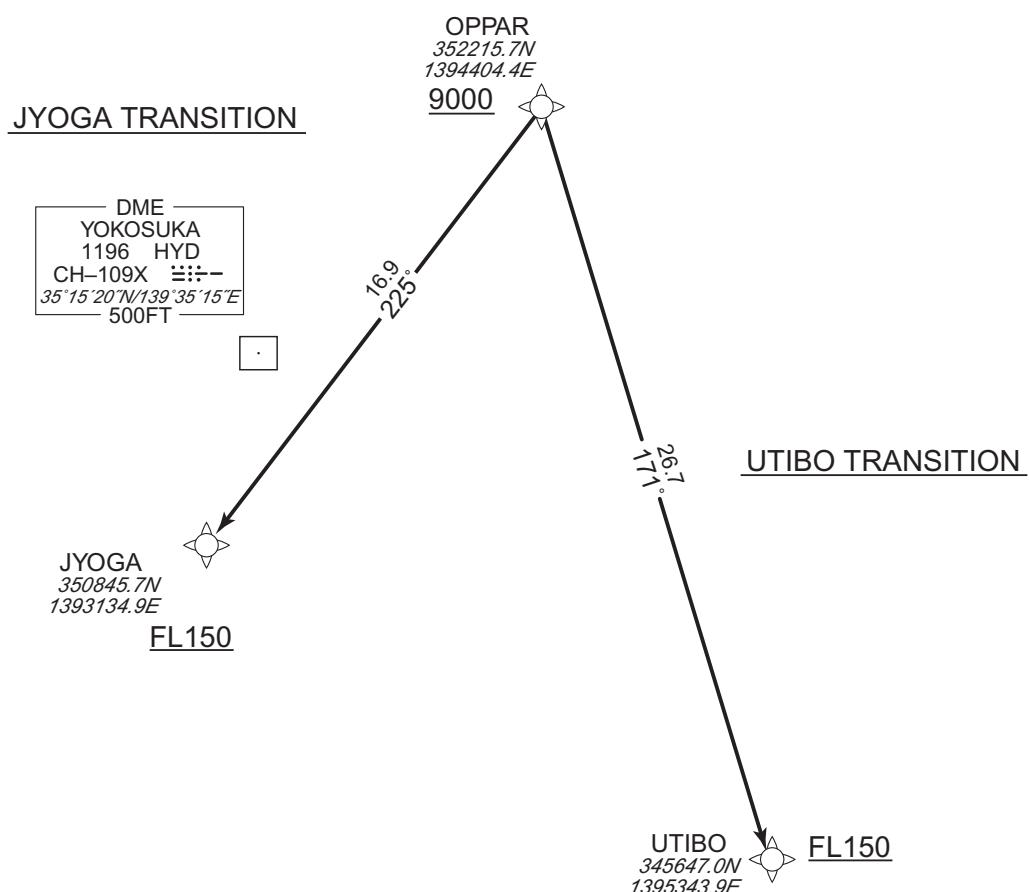
STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV TRANSITION

| JYOGA TRANSITION UTIBO TRANSITION | | RNAV1 |
|--|-----------------------|---|
| Note 1) DME/DME/IRU or GNSS required. | Critical DME | - |
| 2) RADAR service required. | DME GAP | - |
| | Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

VAR 8° W



CHANGE : PROC course. VAR.

JYOGA TRANSITION

From OPPAR at or above 9000FT, to JYOGA at or above FL150.

UTIBO TRANSITION

From OPPAR at or above 9000FT, to UTIBO at or above FL150.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV TRANSITION

JYOGA 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 | OPPAR | — | — | -7.9 | — | — | +9000 | — | — | RNAV1 |
| 002 | TF | JYOGA | — | 225 (217.1) | -7.9 | 16.9 | — | +FL150 | — | — | RNAV1 |

UTIBO 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 | OPPAR | — | — | -7.9 | — | — | +9000 | — | — | RNAV1 |
| 002 | TF | UTIBO | — | 171 (162.7) | -7.9 | 26.7 | — | +FL150 | — | — | RNAV1 |

CHANGE : PROC course. VAR.

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STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

ISOGO TWO DEPARTURE (FOR PROP ONLY)

RWY04/34R/34L: Climb RWY HDG to 700FT or above, turn left within 4NM, climb via HME R177 to VADAR.

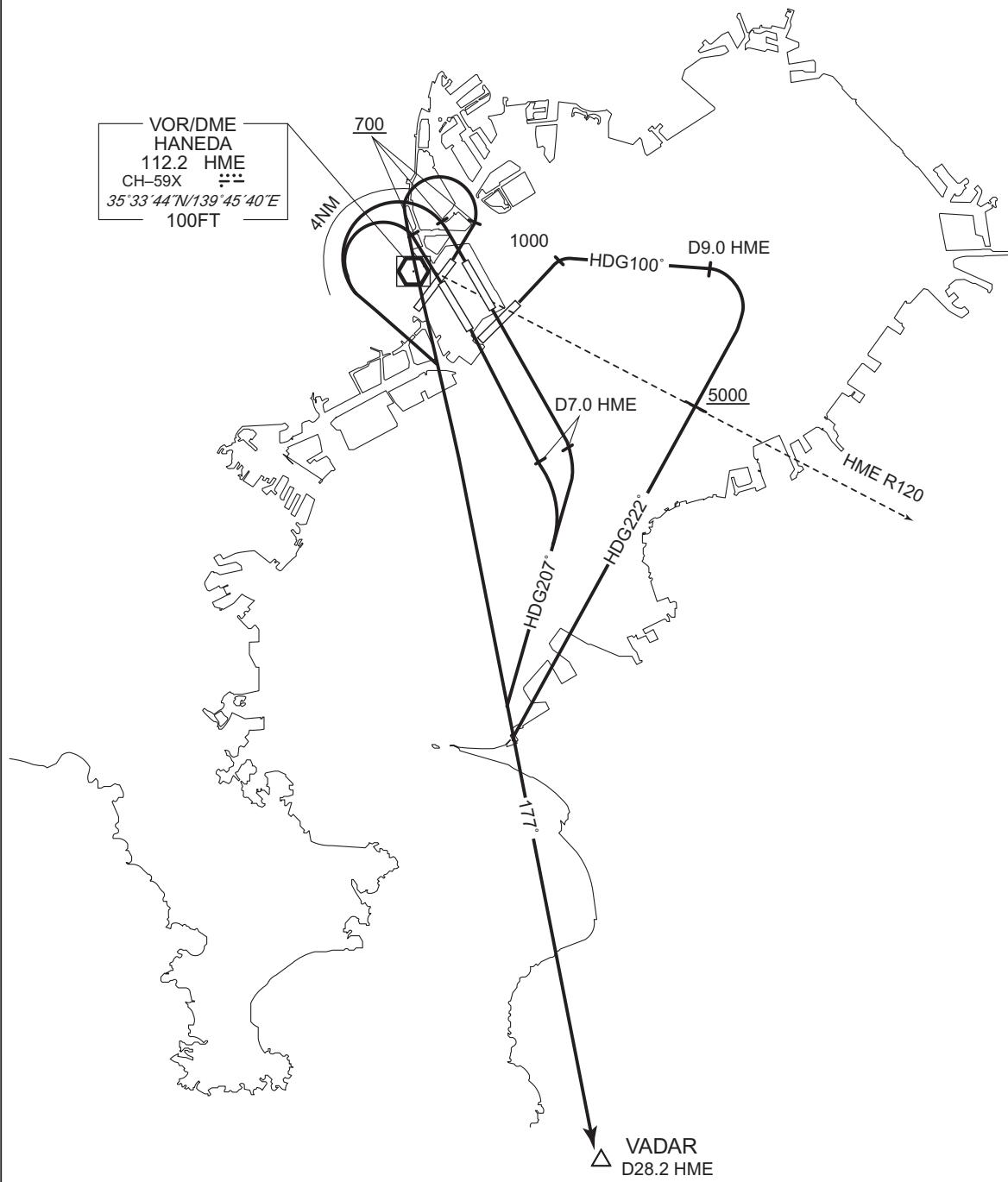
RWY16R/16L: Climb RWY HDG to HME 7.0DME, turn right HDG207° to intercept and proceed via HME R177 to VADAR.

RWY05: Climb RWY HDG to 1000FT, turn right HDG100° to HME 9.0DME, turn right HDG222° to intercept and proceed via HME R177 to VADAR.
Cross HME R120 at or above 5000FT.

Note RWY34R/34L/04: 5.0% climb gradient required up to 700FT.

RWY05: 5.0% climb gradient required up to 1000FT.

CHANGE : Description of PROC name and ALT.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

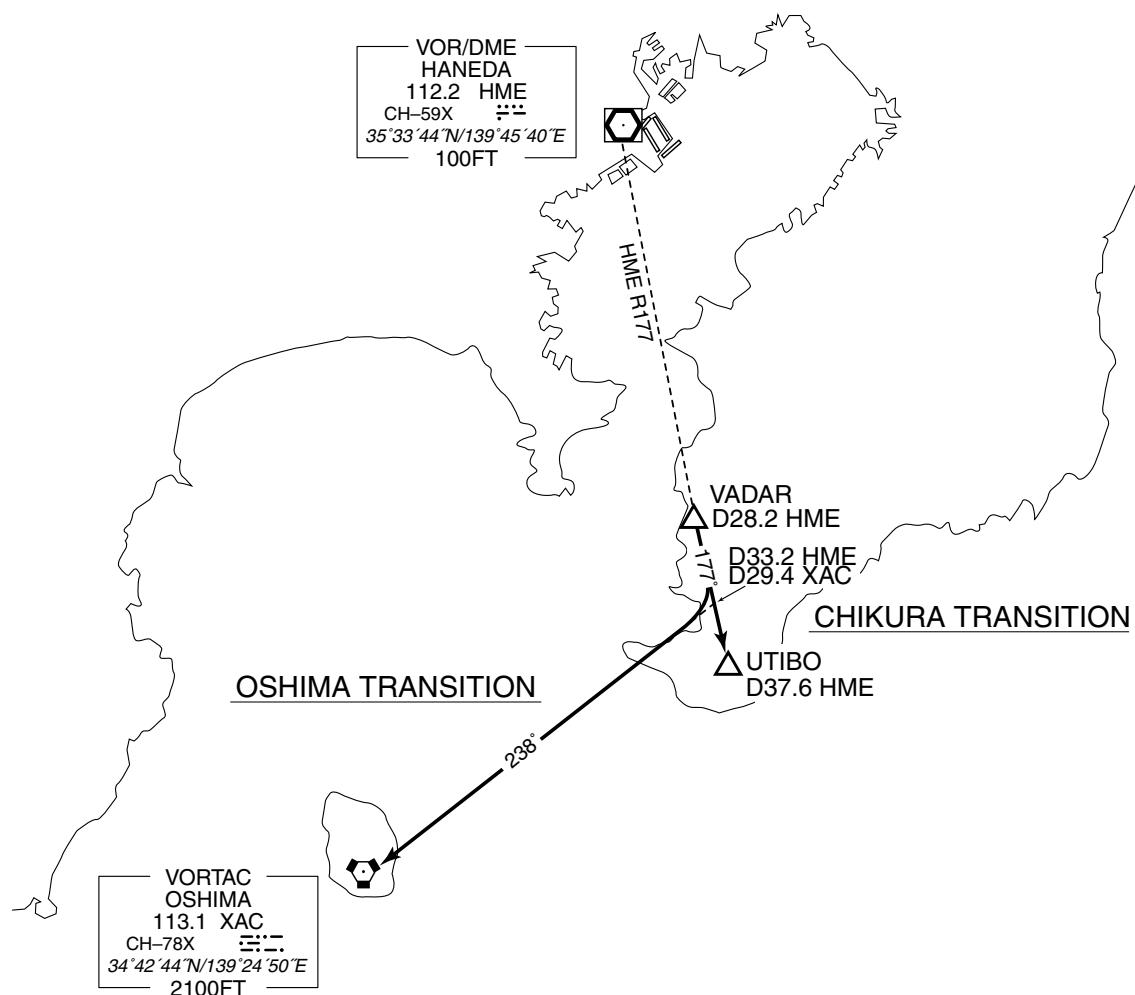
TRANSITION

OSHIMA TRANSITION

From over VADAR, via HME R177 to intercept and proceed via XAC R058 to XAC VORTAC.

CHIKURA TRANSITION

From over VADAR, via HME R177 to UTIBO.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

| VAMOS FOUR 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. 2) RADAR service required. | Critical DME | RWY16R:HME 1.2NM FM DER - 1.9NM to T6R11 RWY16L:HME 1.0NM FM DER - 2.4NM to T6L21 RWY34R:HME 1.0NM FM DER - 2.5NM to TT502 RWY34L:HME 0.5NM FM DER - 2.5NM to TT502 RWY04:HME 1.7NM FM DER - 2.5NM to TT502 RWY05:HME DER - 2.7NM to TT502 |
| DME GAP RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 1.0NM FM DER RWY34L:DER - 0.5NM FM DER RWY04:DER - 1.7NM FM DER RWY22:DER - 1.4NM FM DER | | |
| Inappropriate Navaids See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | | |
| VAR8°W | | |
| <p>The chart shows the departure routes from RJTT/TOKYO INTL. It includes the following key points and routes:</p> <ul style="list-style-type: none"> VOR/DME HANEDA: Located at 112.2, 35°33'44"N / 139°45'40"E. Includes CH-59X and 100FT. BASSA: Located on the ground track. T6R11: Located on the ground track. T6L21: Located on the ground track. TT501: Located on the ground track. TT502: Located on the ground track. LOCUP 5000: Located on the ground track. HOBBS: Located on the ground track. VAMOS 9000: The destination point. Altitudes: 500, 600, 700 feet. Heads up: 043°, 050°, 158°, 188°, 223°. Heads down: 188°, 207°/14.5, 209°/15.4, 217°, 217.3°. Other: 5.2, 5.8, 8.9. <p>CHANGE : PROC renamed. PROC course.</p> | | |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAMOS FOUR DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to VAMOS at or above 9000FT.

RWY16L : Climb on HDG 158° at or above 500FT, direct to T6L21, to VAMOS at or above 9000FT.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS at or above 9000FT.

RWY04: Climb on HDG 043° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS at or above 9000FT.

RWY05: Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS at or above 9000FT.

RWY22: Climb on HDG 223° at or above 600FT, turn left direct to HOBBS, to BASSA, to VAMOS at or above 9000FT.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

RWY22 : 5.0% climb gradient required up to 600FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAMOS FOUR DEPARTURE

RWY16R

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R11 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | VAMOS | — | 207 (199.5) | -7.9 | 14.5 | — | +9000 | — | — | RNAV1 |

RWY16L

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L21 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | VAMOS | — | 209 (200.7) | -7.9 | 15.4 | — | +9000 | — | — | RNAV1 |

RWY34L/RWY34R

| 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 | — | — | 338 (330.0) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | VAMOS | — | 217 (209.5) | -7.9 | 17.3 | — | +9000 | — | — | RNAV1 |

RWY04

| 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 | — | — | 043 (034.9) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | VAMOS | — | 217 (209.5) | -7.9 | 17.3 | — | +9000 | — | — | RNAV1 |

CHANGE : PROC renamed. Course FM T6L21 to VAMOS. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | VAMOS | — | 217 (209.5) | -7.9 | 17.3 | — | +9000 | — | — | RNAV1 |

RWY22

| 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 | — | — | 223 (214.9) | -7.9 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | HOBBS | — | — | -7.9 | — | L | — | — | — | RNAV1 |
| 003 | TF | BASSA | — | 188 (179.9) | -7.9 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | VAMOS | — | 188 (179.9) | -7.9 | 8.9 | — | +9000 | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| BASSA | 352108.8N / 1394542.2E | T6R11 | 352552.5N / 1395137.2E |
| HOBBS | 352653.9N / 1394541.3E | TT501 | 353328.7N / 1395029.9E |
| LOCUP | 352718.8N / 1395608.5E | TT502 | 353224.4N / 1395720.7E |
| T6L21 | 352639.1N / 1395222.0E | VAMOS | 351215.5N / 1394543.6E |

CHANGE : PROC course. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

| RJTT/TOKYO INTL | | RNAV TRANSITION |
|---|--|-----------------|
| TATEYAMA TRANSITION / DRAKY TRANSITION | | RNAV1 |
| Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. | Critical DME | - |
| DME GAP | - | - |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | |
| <p>VAR8°W</p> | | |
| CHANGE : Description of VAR. | | |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV TRANSITION

TATEYAMA TRANSITION

From VAMOS at or above 9000FT, to UTIBO.

| 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 | VAMOS | – | – | -7.9 | – | – | +9000 | – | – | RNAV1 |
| 002 | TF | UTIBO | – | 165 (157.0) | -7.9 | 16.8 | – | – | – | – | RNAV1 |

DRAKY TRANSITION

From VAMOS at or above 9000FT, to DRAKY, to XAC.

| 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 | VAMOS | – | – | -7.9 | – | – | +9000 | – | – | RNAV1 |
| 002 | TF | DRAKY | – | 218 (210.2) | -7.9 | 22.2 | – | – | – | – | RNAV1 |
| 003 | TF | XAC | – | 218 (210.1) | -7.9 | 11.9 | – | – | – | – | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| DRAKY | 345301.7N / 1393205.5E | VAMOS | 351215.5N / 1394543.6E |
| UTIBO | 345647.0N / 1395343.9E | XAC | 344244.1N / 1392450.5E |

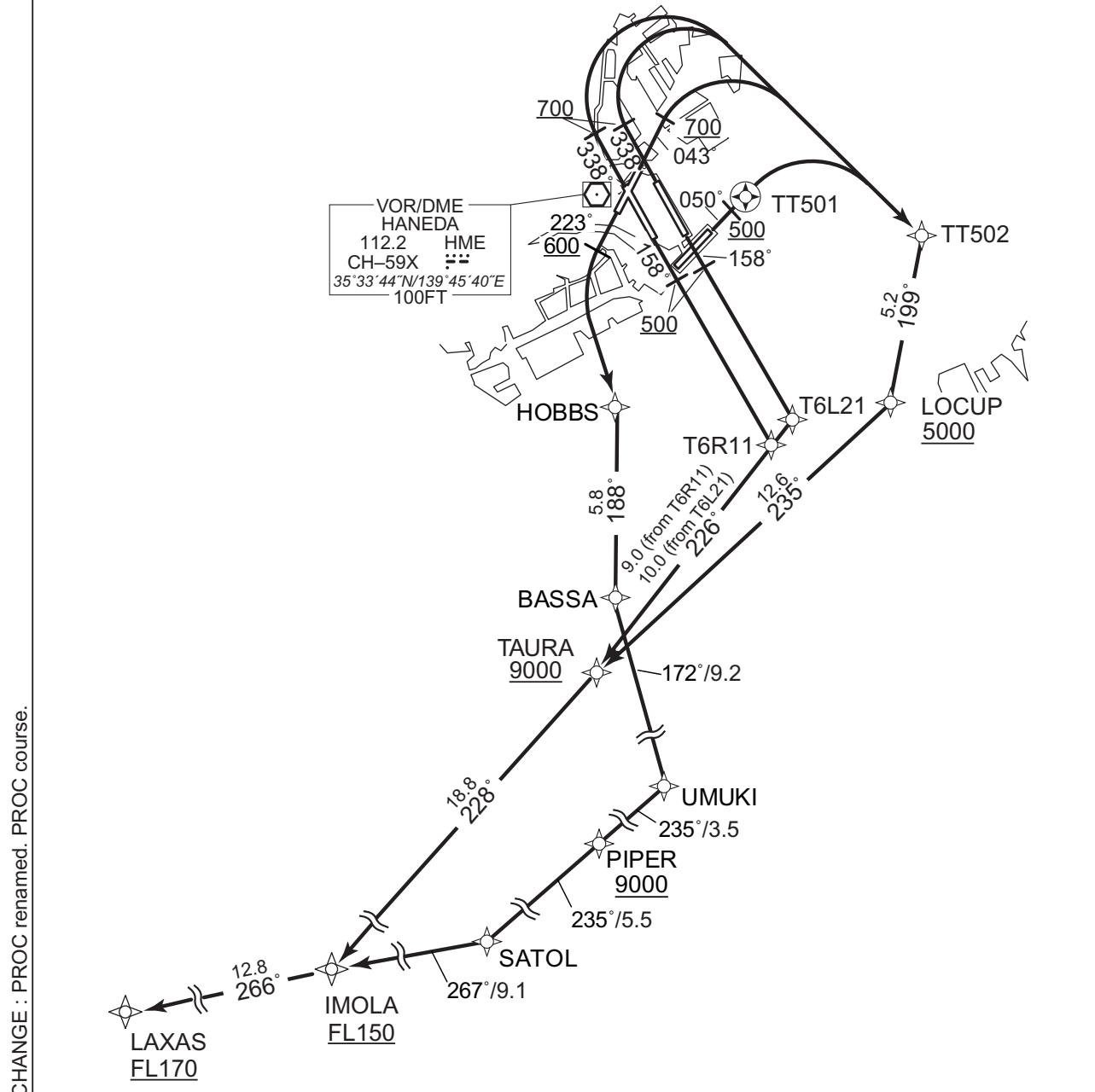
STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

| LAXAS FOUR 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. 2) RADAR service required. | Critical DME | RWY16R: HME 1.2NM FM DER - 1.9NM to T6R11 HYD T6R11 - TAURA RWY16L: HME 1.0NM FM DER - 2.4NM to T6L21 HYD 9.0NM to TAURA - TAURA RWY34R: HME 1.0NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY34L: HME 0.5NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY04 : HME 1.7NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY05 : HME DER - 2.7NM to TT502 HYD 8.6NM to TAURA - TAURA |
| DME GAP RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 1.0NM FM DER RWY34L:DER - 0.5NM FM DER RWY04:DER - 1.7NM FM DER RWY05:DER - 1.4NM FM DER | | |
| Inappropriate Navaids See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | | |

VAR8°W



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

LAXAS FOUR DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, direct to T6L21, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY04 : Climb on HDG 043° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY22 : Climb on HDG 223° at or above 600FT, turn left direct to HOBBS, to BASSA, to UMUKI, to PIPER at or above 9000FT, to SATOL, to IMOLA at or above FL150, to LAXAS at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

RWY22 : 5.0% climb gradient required up to 600FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

LAXAS FOUR DEPARTURE

RWY16R

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R11 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | TAURA | — | 226 (218.1) | -7.9 | 9.0 | — | +9000 | — | — | RNAV1 |
| 004 | TF | IMOLA | — | 228 (220.5) | -7.9 | 18.8 | — | +FL150 | — | — | RNAV1 |
| 005 | TF | LAXAS | — | 266 (258.6) | -7.9 | 12.8 | — | +FL170 | — | — | RNAV1 |

RWY16L

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L21 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | TAURA | — | 226 (218.1) | -7.9 | 10.0 | — | +9000 | — | — | RNAV1 |
| 004 | TF | IMOLA | — | 228 (220.5) | -7.9 | 18.8 | — | +FL150 | — | — | RNAV1 |
| 005 | TF | LAXAS | — | 266 (258.6) | -7.9 | 12.8 | — | +FL170 | — | — | RNAV1 |

RWY34L/RWY34R

| 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 | — | — | 338 (330.0) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | TAURA | — | 235 (227.3) | -7.9 | 12.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | IMOLA | — | 228 (220.5) | -7.9 | 18.8 | — | +FL150 | — | — | RNAV1 |
| 006 | TF | LAXAS | — | 266 (258.6) | -7.9 | 12.8 | — | +FL170 | — | — | RNAV1 |

CHANGE : PROC renamed. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

| 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 | — | — | 043 (034.9) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | TAURA | — | 235 (227.3) | -7.9 | 12.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | IMOLA | — | 228 (220.5) | -7.9 | 18.8 | — | +FL150 | — | — | RNAV1 |
| 006 | TF | LAXAS | — | 266 (258.6) | -7.9 | 12.8 | — | +FL170 | — | — | RNAV1 |

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TAURA | — | 235 (227.3) | -7.9 | 12.6 | — | +9000 | — | — | RNAV1 |
| 006 | TF | IMOLA | — | 228 (220.5) | -7.9 | 18.8 | — | +FL150 | — | — | RNAV1 |
| 007 | TF | LAXAS | — | 266 (258.6) | -7.9 | 12.8 | — | +FL170 | — | — | RNAV1 |

CHANGE : VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY22

| 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 | — | — | 223 (214.9) | -7.9 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | HOBBS | — | — | -7.9 | — | L | — | — | — | RNAV1 |
| 003 | TF | BASSA | — | 188 (179.9) | -7.9 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | UMUKI | — | 172 (163.9) | -7.9 | 9.2 | — | — | — | — | RNAV1 |
| 005 | TF | PIPER | — | 235 (227.4) | -7.9 | 3.5 | — | +9000 | — | — | RNAV1 |
| 006 | TF | SATOL | — | 235 (227.4) | -7.9 | 5.5 | — | — | — | — | RNAV1 |
| 007 | TF | IMOLA | — | 267 (258.7) | -7.9 | 9.1 | — | +FL150 | — | — | RNAV1 |
| 008 | TF | LAXAS | — | 266 (258.6) | -7.9 | 12.8 | — | +FL170 | — | — | RNAV1 |

Waypoint Coordinates

CHANGE : PROC course. VAR.

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| BASSA | 352108.8N / 1394542.2E | T6L21 | 352639.1N / 1395222.0E |
| HOBBS | 352653.9N / 1394541.3E | T6R11 | 352552.5N / 1395137.2E |
| IMOLA | 350426.0N / 1392951.0E | TAURA | 351846.1N / 1394447.3E |
| LAXAS | 350153.1N / 1391432.8E | TT501 | 353328.7N / 1395029.9E |
| LOCUP | 352718.8N / 1395608.5E | TT502 | 353224.4N / 1395720.7E |
| PIPER | 350958.3N / 1394542.0E | UMUKI | 351219.1N / 1394849.2E |
| SATOL | 350613.3N / 1394043.4E | | |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

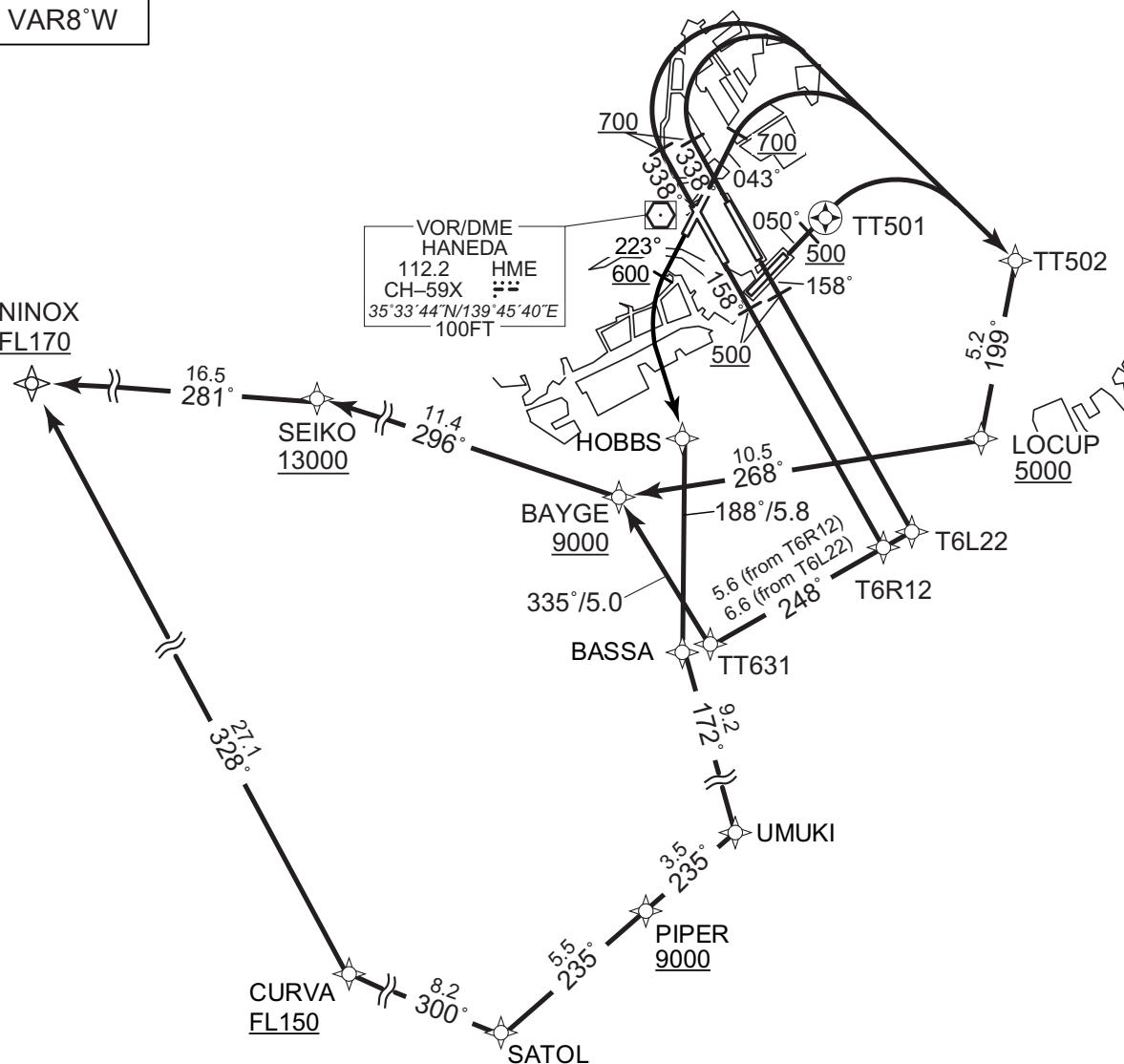
| NINOX FOUR DEPARTURE | | RNAV1 |
|--|--|--|
| Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required. | | RWY16R : HME 1.2NM FM DER - 3.8NM to T6R12 HYD T6R12 - TT631 PQD 1.0NM to BAYGE - 6.5NM to SEIKO RWY16L : HME 1.0NM FM DER - 4.7NM to T6L22 HYD 5.6NM to TT631 - TT631 PQD 1.0NM to BAYGE - 6.5NM to SEIKO RWY34R : HME 1.0NM FM DER - 2.5NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO RWY34L : HME 0.5NM FM DER - 2.5NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO RWY04 : HME 1.7NM FM DER - 2.5NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO RWY05 : HME DER - 2.7NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO |
| DME GAP | RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER RWY22 : DER - 1.4NM FM DER | Critical DME |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | |

VAR8°W

NINOX
FL170

VOR/DME
 HANEDA
 112.2 HME
 CH-59X 
 35°33'44"N/139°45'40"E


CHANGE : PROC renamed. PROC course.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

NINOX FOUR DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R12, to TT631, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, direct to T6L22, to TT631, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY04 : Climb on HDG 043° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY22 : Climb on HDG 223° at or above 600FT, turn left direct to HOBBS, to BASSA, to UMUKI, to PIPER at or above 9000FT, to SATOL, to CURVA at or above FL150, to NINOX at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

RWY22 : 5.0% climb gradient required up to 600FT.

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

NINOX FOUR DEPARTURE

RWY16R

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R12 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | TT631 | — | 248 (239.8) | -7.9 | 5.6 | — | — | — | — | RNAV1 |
| 004 | TF | BAYGE | — | 335 (327.0) | -7.9 | 5.0 | — | +9000 | — | — | RNAV1 |
| 005 | TF | SEIKO | — | 296 (287.8) | -7.9 | 11.4 | — | +13000 | — | — | RNAV1 |
| 006 | TF | NINOX | — | 281 (272.9) | -7.9 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY16L

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L22 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | TT631 | — | 248 (239.8) | -7.9 | 6.6 | — | — | — | — | RNAV1 |
| 004 | TF | BAYGE | — | 335 (327.0) | -7.9 | 5.0 | — | +9000 | — | — | RNAV1 |
| 005 | TF | SEIKO | — | 296 (287.8) | -7.9 | 11.4 | — | +13000 | — | — | RNAV1 |
| 006 | TF | NINOX | — | 281 (272.9) | -7.9 | 16.5 | — | +FL170 | — | — | RNAV1 |

CHANGE : PROC renamed. PROC course. VAR.

RWY34L/RWY34R

| 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 | — | — | 338 (330.0) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | BAYGE | — | 268 (260.6) | -7.9 | 10.5 | — | +9000 | — | — | RNAV1 |
| 005 | TF | SEIKO | — | 296 (287.8) | -7.9 | 11.4 | — | +13000 | — | — | RNAV1 |
| 006 | TF | NINOX | — | 281 (272.9) | -7.9 | 16.5 | — | +FL170 | — | — | RNAV1 |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

| 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 | — | — | 043 (034.9) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | BAYGE | — | 268 (260.6) | -7.9 | 10.5 | — | +9000 | — | — | RNAV1 |
| 005 | TF | SEIKO | — | 296 (287.8) | -7.9 | 11.4 | — | +13000 | — | — | RNAV1 |
| 006 | TF | NINOX | — | 281 (272.9) | -7.9 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | BAYGE | — | 268 (260.6) | -7.9 | 10.5 | — | +9000 | — | — | RNAV1 |
| 006 | TF | SEIKO | — | 296 (287.8) | -7.9 | 11.4 | — | +13000 | — | — | RNAV1 |
| 007 | TF | NINOX | — | 281 (272.9) | -7.9 | 16.5 | — | +FL170 | — | — | RNAV1 |

CHANGE : PROC course, VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY22

| 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 | — | — | 223 (214.9) | -7.9 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | HOBBS | — | — | -7.9 | — | L | — | — | — | RNAV1 |
| 003 | TF | BASSA | — | 188 (179.9) | -7.9 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | UMUKI | — | 172 (163.9) | -7.9 | 9.2 | — | — | — | — | RNAV1 |
| 005 | TF | PIPER | — | 235 (227.4) | -7.9 | 3.5 | — | +9000 | — | — | RNAV1 |
| 006 | TF | SATOL | — | 235 (227.4) | -7.9 | 5.5 | — | — | — | — | RNAV1 |
| 007 | TF | CURVA | — | 300 (292.2) | -7.9 | 8.2 | — | +FL150 | — | — | RNAV1 |
| 008 | TF | NINOX | — | 328 (319.6) | -7.9 | 27.1 | — | +FL170 | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| BASSA | 352108.8N / 1394542.2E | SEIKO | 352904.5N / 1393005.0E |
| BAYGE | 352535.4N / 1394327.4E | T6L22 | 352441.2N / 1395345.4E |
| CURVA | 350919.0N / 1393124.4E | T6R12 | 352413.6N / 1395247.1E |
| HOBBS | 352653.9N / 1394541.3E | TT501 | 353328.7N / 1395029.9E |
| LOCUP | 352718.8N / 1395608.5E | TT502 | 353224.4N / 1395720.7E |
| NINOX | 352953.4N / 1390953.1E | TT631 | 352123.4N / 1394648.6E |
| PIPER | 350958.3N / 1394542.0E | UMUKI | 351219.1N / 1394849.2E |
| SATOL | 350613.3N / 1394043.4E | | |

CHANGE : PROC course. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

| TIARA TWO A DEPARTURE | | RNAV SID |
|--|---|--------------|
| 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. 2) RADAR service required. | | RNAV1 |
| DME GAP | RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT | Critical DME |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | |

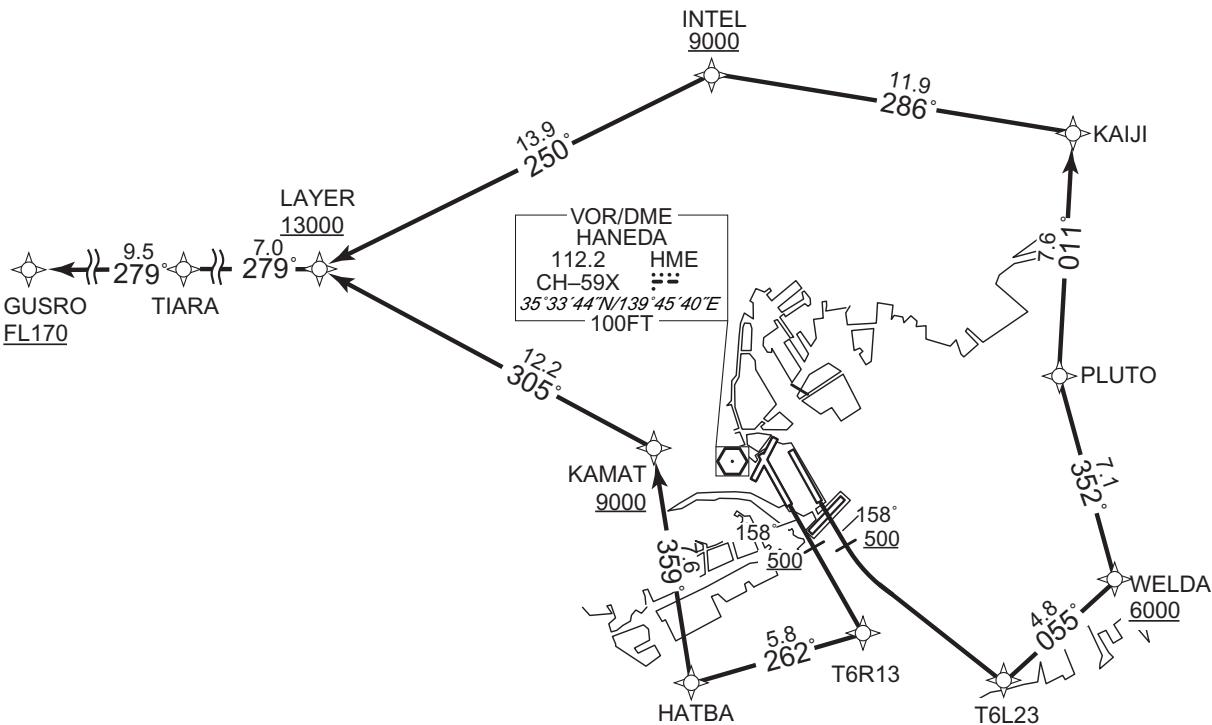
VAR8°W

TIARA TWO A DEPARTURE RWY16R/16L

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| TIARA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| TIARA B DEP | From 2200UTC to 0230UTC |
| TIARA C DEP | About 3hours from 0600UTC to 1000UTC |

CHANGE : PROC renamed. Course FM T6R13 to HATBA.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

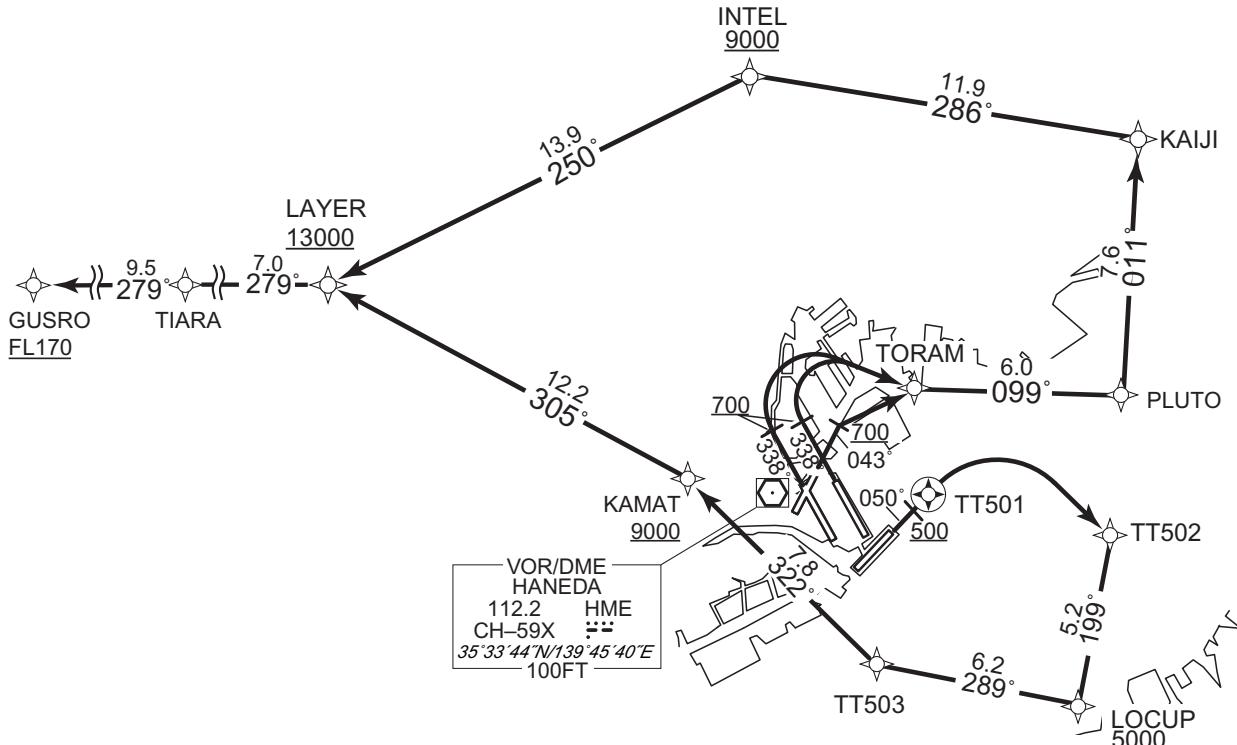
RNAV SID

VAR8°W

TIARA TWO A DEPARTURE RWY 34L/34R/04/05

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| TIARA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| TIARA B DEP | From 2200UTC to 0230UTC |
| TIARA C DEP | About 3hours from 0600UTC to 1000UTC |



CHANGE : PROC renamed. PROC course.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA TWO A DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY04 : Climb on HDG 043° at or above 700FT, direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA TWO A DEPARTURE

RWY16R

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R13 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | HATBA | — | 262 (253.8) | -7.9 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | KAMAT | — | 359 (351.1) | -7.9 | 7.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 006 | TF | TIARA | — | 279 (271.2) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 007 | TF | GUSRO | — | 279 (271.1) | -7.9 | 9.5 | — | +FL170 | — | — | RNAV1 |

RWY16L

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L23 | — | — | -7.9 | — | L | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 055 (047.3) | -7.9 | 4.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.9 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | INTEL | — | 286 (278.4) | -7.9 | 11.9 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 250 (242.4) | -7.9 | 13.9 | — | +13000 | — | — | RNAV1 |
| 008 | TF | TIARA | — | 279 (271.2) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 009 | TF | GUSRO | — | 279 (271.1) | -7.9 | 9.5 | — | +FL170 | — | — | RNAV1 |

RWY34L/RWY34R

| 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 | — | — | 338 (330.0) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TORAM | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | PLUTO | — | 099 (090.7) | -7.9 | 6.0 | — | — | — | — | RNAV1 |
| 004 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | INTEL | — | 286 (278.4) | -7.9 | 11.9 | — | +9000 | — | — | RNAV1 |
| 006 | TF | LAYER | — | 250 (242.4) | -7.9 | 13.9 | — | +13000 | — | — | RNAV1 |
| 007 | TF | TIARA | — | 279 (271.2) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 008 | TF | GUSRO | — | 279 (271.1) | -7.9 | 9.5 | — | +FL170 | — | — | RNAV1 |

CHANGE : PROC renamed. PROC course. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

| 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 | — | — | 043 (034.9) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TORAM | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | PLUTO | — | 099 (090.7) | -7.9 | 6.0 | — | — | — | — | RNAV1 |
| 004 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | INTEL | — | 286 (278.4) | -7.9 | 11.9 | — | +9000 | — | — | RNAV1 |
| 006 | TF | LAYER | — | 250 (242.4) | -7.9 | 13.9 | — | +13000 | — | — | RNAV1 |
| 007 | TF | TIARA | — | 279 (271.2) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 008 | TF | GUSRO | — | 279 (271.1) | -7.9 | 9.5 | — | +FL170 | — | — | RNAV1 |

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TT503 | — | 289 (280.8) | -7.9 | 6.2 | — | — | — | — | RNAV1 |
| 006 | TF | KAMAT | — | 322 (314.2) | -7.9 | 7.8 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 008 | TF | TIARA | — | 279 (271.2) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 009 | TF | GUSRO | — | 279 (271.1) | -7.9 | 9.5 | — | +FL170 | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| GUSRO | 353944.8N / 1390813.1E | T6L23 | 352627.6N / 1395539.1E |
| HATBA | 352623.4N / 1394315.9E | T6R13 | 352800.8N / 1395006.4E |
| INTEL | 354553.0N / 1394340.2E | TIARA | 353934.0N / 1391954.2E |
| KAIJI | 354409.6N / 1395806.6E | TORAM | 353636.8N / 1395011.0E |
| KAMAT | 353353.6N / 1394148.9E | TT501 | 353328.7N / 1395029.9E |
| LAYER | 353925.4N / 1392829.5E | TT502 | 353224.4N / 1395720.7E |
| LOCUP | 352718.8N / 1395608.5E | TT503 | 352828.0N / 1394840.4E |
| PLUTO | 353632.1N / 1395736.8E | WELDA | 352941.4N / 1395956.7E |

CHANGE : PROC course.VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

| TIARA TWO B DEPARTURE | | RNAV SID |
|--|--|--------------|
| 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. 2) RADAR service required. | | |
| DME GAP | RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT | Critical DME |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | |

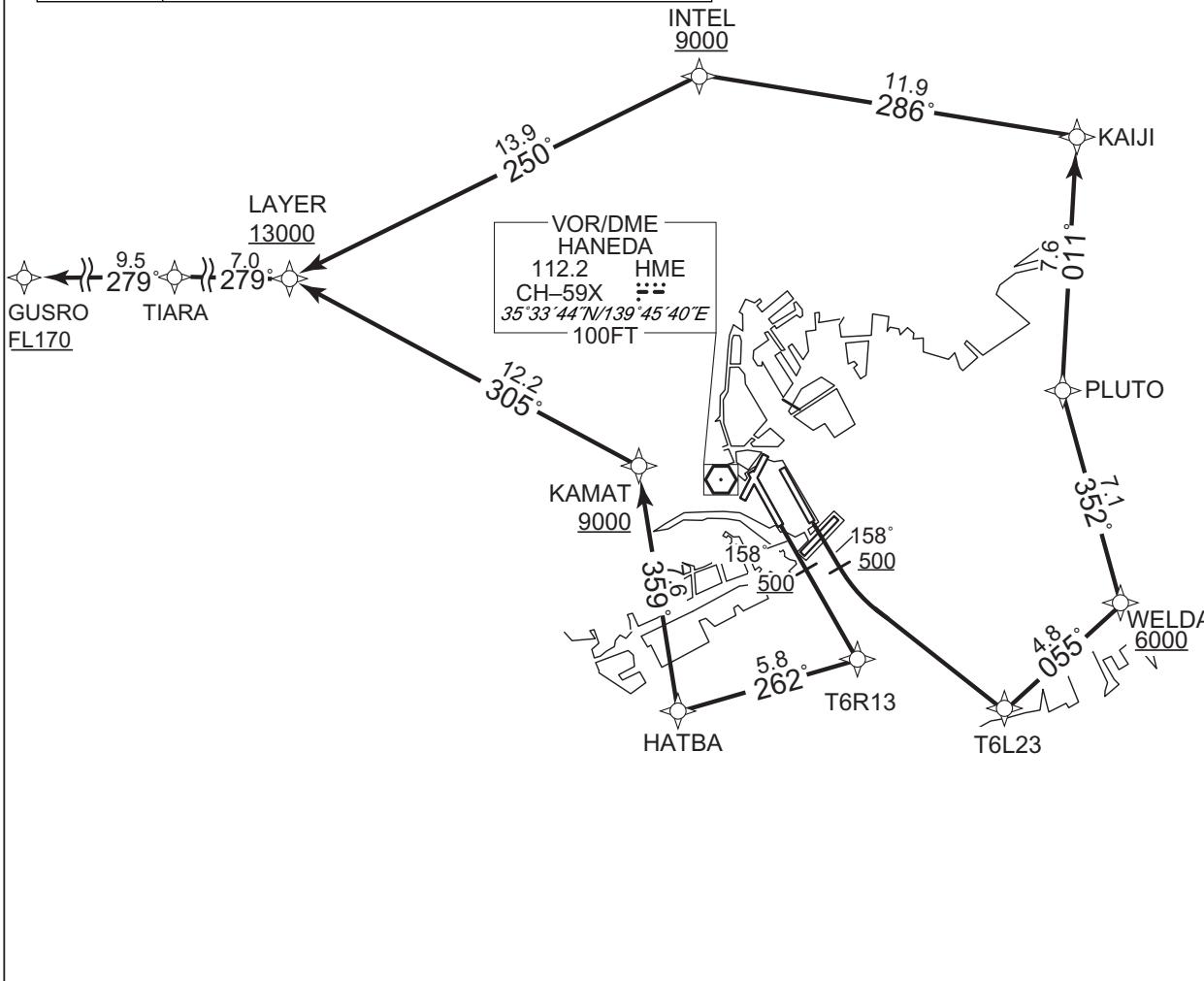
VAR8°W

TIARA TWO B DEPARTURE RWY16R/16L

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| TIARA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| TIARA B DEP | From 2200UTC to 0230UTC |
| TIARA C DEP | About 3hours from 0600UTC to 1000UTC |

CHANGE : PROC renamed. Course FM T6R13 to HATBA.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

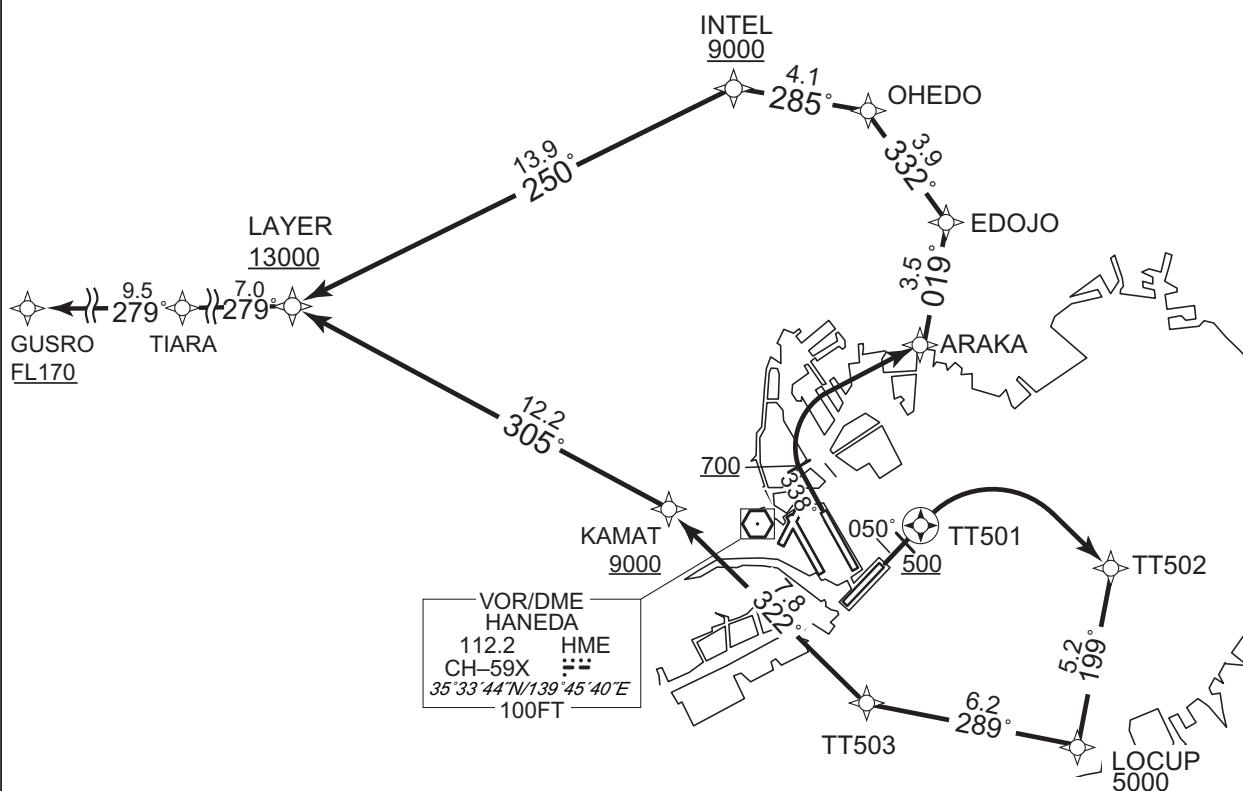
RNAV SID

VAR8°W

TIARA TWO B DEPARTURE RWY 34R/05

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| TIARA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| TIARA B DEP | From 2200UTC to 0230UTC |
| TIARA C DEP | About 3hours from 0600UTC to 1000UTC |



CHANGE : PROC renamed. PROC course.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA TWO B DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA TWO B DEPARTURE

RWY16R

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R13 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | HATBA | — | 262 (253.8) | -7.9 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | KAMAT | — | 359 (351.1) | -7.9 | 7.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 006 | TF | TIARA | — | 279 (271.2) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 007 | TF | GUSRO | — | 279 (271.1) | -7.9 | 9.5 | — | +FL170 | — | — | RNAV1 |

RWY16L

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L23 | — | — | -7.9 | — | L | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 055 (047.3) | -7.9 | 4.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.9 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | INTEL | — | 286 (278.4) | -7.9 | 11.9 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 250 (242.4) | -7.9 | 13.9 | — | +13000 | — | — | RNAV1 |
| 008 | TF | TIARA | — | 279 (271.2) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 009 | TF | GUSRO | — | 279 (271.1) | -7.9 | 9.5 | — | +FL170 | — | — | RNAV1 |

RWY34R

| 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 | — | — | 338 (330.0) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | ARAKA | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | EDOJO | — | 019 (010.8) | -7.9 | 3.5 | — | — | — | — | RNAV1 |
| 004 | TF | OHEDO | — | 332 (323.7) | -7.9 | 3.9 | — | — | — | — | RNAV1 |
| 005 | TF | INTEL | — | 285 (277.0) | -7.9 | 4.1 | — | +9000 | — | — | RNAV1 |
| 006 | TF | LAYER | — | 250 (242.4) | -7.9 | 13.9 | — | +13000 | — | — | RNAV1 |
| 007 | TF | TIARA | — | 279 (271.2) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 008 | TF | GUSRO | — | 279 (271.1) | -7.9 | 9.5 | — | +FL170 | — | — | RNAV1 |

CHANGE : PROC renamed. PROC course. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TT503 | — | 289 (280.8) | -7.9 | 6.2 | — | — | — | — | RNAV1 |
| 006 | TF | KAMAT | — | 322 (314.2) | -7.9 | 7.8 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 008 | TF | TIARA | — | 279 (271.2) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 009 | TF | GUSRO | — | 279 (271.1) | -7.9 | 9.5 | — | +FL170 | — | — | RNAV1 |

CHANGE : Course FM LOCUP to TT503. VAR.

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ARAKA | 353848.8N / 1395041.9E | OHEDO | 354523.4N / 1394838.6E |
| EDOJO | 354214.0N / 1395129.9E | PLUTO | 353632.1N / 1395736.8E |
| GUSRO | 353944.8N / 1390813.1E | T6L23 | 352627.6N / 1395539.1E |
| HATBA | 352623.4N / 1394315.9E | T6R13 | 352800.8N / 1395006.4E |
| INTEL | 354553.0N / 1394340.2E | TIARA | 353934.0N / 1391954.2E |
| KAIJI | 354409.6N / 1395806.6E | TT501 | 353328.7N / 1395029.9E |
| KAMAT | 353353.6N / 1394148.9E | TT502 | 353224.4N / 1395720.7E |
| LAYER | 353925.4N / 1392829.5E | TT503 | 352828.0N / 1394840.4E |
| LOCUP | 352718.8N / 1395608.5E | WELDA | 352941.4N / 1395956.7E |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA TWO C DEPARTURE

RNAV1

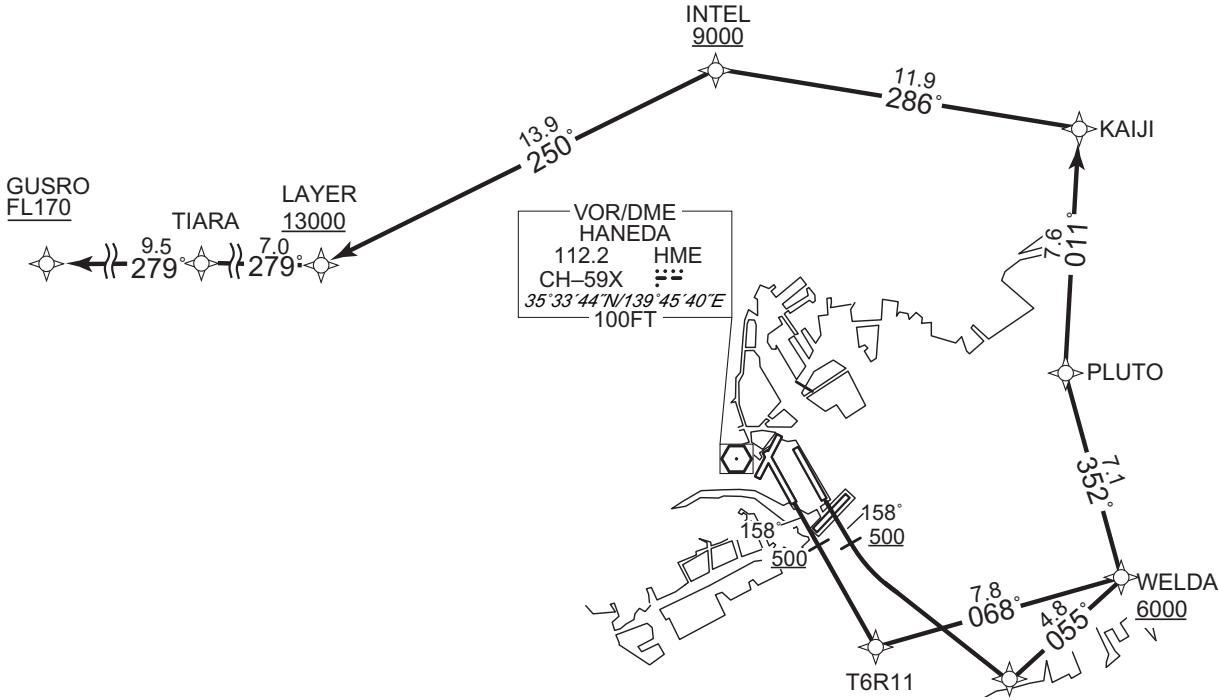
| | | | |
|--|--|--------------|---|
| Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required. | | Critical DME | RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - 6.9NM to LAYER RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - 6.9NM to LAYER RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT |
| DME GAP | RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT | | |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | | |

VAR8°W

TIARA TWO C DEPARTURE RWY16R/16L

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| TIARA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| TIARA B DEP | From 2200UTC to 0230UTC |
| TIARA C DEP | About 3hours from 0600UTC to 1000UTC |



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

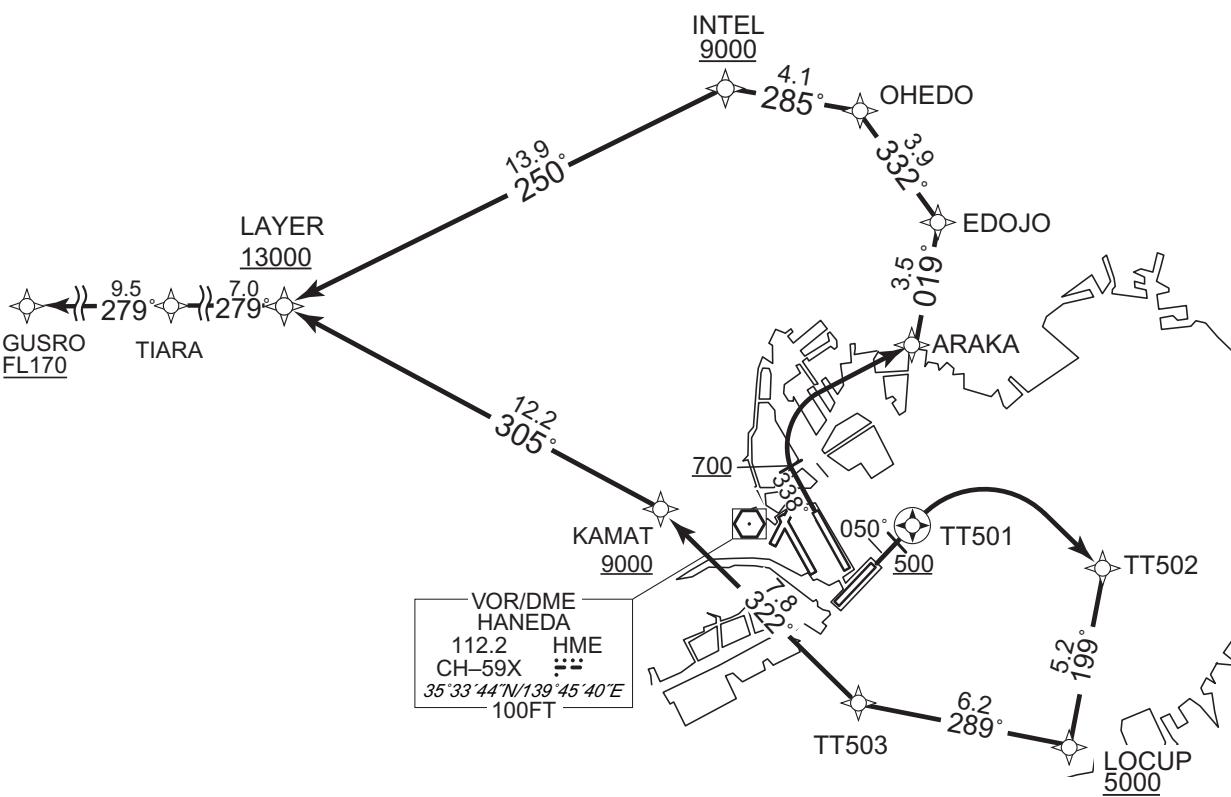
RNAV SID

VAR8°W

TIARA TWO C DEPARTURE RWY 34R/05

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| TIARA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| TIARA B DEP | From 2200UTC to 0230UTC |
| TIARA C DEP | About 3hours from 0600UTC to 1000UTC |



CHANGE : PROC renamed. PROC course.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA TWO C DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA TWO C DEPARTURE

RWY16R

| 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 | - | - | 158 (150.0) | -7.9 | - | - | +500 | - | - | RNAV1 |
| 002 | DF | T6R11 | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 003 | TF | WELDA | - | 068 (060.6) | -7.9 | 7.8 | - | +6000 | - | - | RNAV1 |
| 004 | TF | PLUTO | - | 352 (344.5) | -7.9 | 7.1 | - | - | - | - | RNAV1 |
| 005 | TF | KAIJI | - | 011 (003.0) | -7.9 | 7.6 | - | - | - | - | RNAV1 |
| 006 | TF | INTEL | - | 286 (278.4) | -7.9 | 11.9 | - | +9000 | - | - | RNAV1 |
| 007 | TF | LAYER | - | 250 (242.4) | -7.9 | 13.9 | - | +13000 | - | - | RNAV1 |
| 008 | TF | TIARA | - | 279 (271.2) | -7.9 | 7.0 | - | - | - | - | RNAV1 |
| 009 | TF | GUSRO | - | 279 (271.1) | -7.9 | 9.5 | - | +FL170 | - | - | RNAV1 |

RWY16L

| 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 | - | - | 158 (150.0) | -7.9 | - | - | +500 | - | - | RNAV1 |
| 002 | DF | T6L23 | - | - | -7.9 | - | L | - | - | - | RNAV1 |
| 003 | TF | WELDA | - | 055 (047.3) | -7.9 | 4.8 | - | +6000 | - | - | RNAV1 |
| 004 | TF | PLUTO | - | 352 (344.5) | -7.9 | 7.1 | - | - | - | - | RNAV1 |
| 005 | TF | KAIJI | - | 011 (003.0) | -7.9 | 7.6 | - | - | - | - | RNAV1 |
| 006 | TF | INTEL | - | 286 (278.4) | -7.9 | 11.9 | - | +9000 | - | - | RNAV1 |
| 007 | TF | LAYER | - | 250 (242.4) | -7.9 | 13.9 | - | +13000 | - | - | RNAV1 |
| 008 | TF | TIARA | - | 279 (271.2) | -7.9 | 7.0 | - | - | - | - | RNAV1 |
| 009 | TF | GUSRO | - | 279 (271.1) | -7.9 | 9.5 | - | +FL170 | - | - | RNAV1 |

RWY34R

| 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 | - | - | 338 (330.0) | -7.9 | - | - | +700 | - | - | RNAV1 |
| 002 | DF | ARAKA | - | - | -7.9 | - | R | - | - | - | RNAV1 |
| 003 | TF | EDOJO | - | 019 (010.8) | -7.9 | 3.5 | - | - | - | - | RNAV1 |
| 004 | TF | OHEDO | - | 332 (323.7) | -7.9 | 3.9 | - | - | - | - | RNAV1 |
| 005 | TF | INTEL | - | 285 (277.0) | -7.9 | 4.1 | - | +9000 | - | - | RNAV1 |
| 006 | TF | LAYER | - | 250 (242.4) | -7.9 | 13.9 | - | +13000 | - | - | RNAV1 |
| 007 | TF | TIARA | - | 279 (271.2) | -7.9 | 7.0 | - | - | - | - | RNAV1 |
| 008 | TF | GUSRO | - | 279 (271.1) | -7.9 | 9.5 | - | +FL170 | - | - | RNAV1 |

CHANGE : PROC renamed. PROC course. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

| 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 | - | - | 050 (042.4) | -7.9 | - | - | +500 | - | - | RNAV1 |
| 002 | DF | TT501 | Y | - | -7.9 | - | - | - | - | - | RNAV1 |
| 003 | DF | TT502 | - | - | -7.9 | - | R | - | - | - | RNAV1 |
| 004 | TF | LOCUP | - | 199 (190.9) | -7.9 | 5.2 | - | +5000 | - | - | RNAV1 |
| 005 | TF | TT503 | - | 289 (280.8) | -7.9 | 6.2 | - | - | - | - | RNAV1 |
| 006 | TF | KAMAT | - | 322 (314.2) | -7.9 | 7.8 | - | +9000 | - | - | RNAV1 |
| 007 | TF | LAYER | - | 305 (297.1) | -7.9 | 12.2 | - | +13000 | - | - | RNAV1 |
| 008 | TF | TIARA | - | 279 (271.2) | -7.9 | 7.0 | - | - | - | - | RNAV1 |
| 009 | TF | GUSRO | - | 279 (271.1) | -7.9 | 9.5 | - | +FL170 | - | - | RNAV1 |

CHANGE : Course FM LOCUP to TT503. VAR.

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ARAKA | 353848.8N / 1395041.9E | PLUTO | 353632.1N / 1395736.8E |
| EDOJO | 354214.0N / 1395129.9E | T6L23 | 352627.6N / 1395539.1E |
| GUSRO | 353944.8N / 1390813.1E | T6R11 | 352552.5N / 1395137.2E |
| INTEL | 354553.0N / 1394340.2E | TIARA | 353934.0N / 1391954.2E |
| KAIJI | 354409.6N / 1395806.6E | TT501 | 353328.7N / 1395029.9E |
| KAMAT | 353353.6N / 1394148.9E | TT502 | 353224.4N / 1395720.7E |
| LAYER | 353925.4N / 1392829.5E | TT503 | 352828.0N / 1394840.4E |
| LOCUP | 352718.8N / 1395608.5E | WELDA | 352941.4N / 1395956.7E |
| OHEDO | 354523.4N / 1394838.6E | | |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

| BEKLA THREE A DEPARTURE | | RNAV SID |
|--|---|---|
| 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. 2) RADAR service required. | | RNAV1 |
| DME GAP | RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT | Critical DME |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | RWY16R : HME 1.2NM FM DER - HATBA HYD 2.8NM to HATBA - 1.6NM to HATBA PQD HATBA - 1.6NM to KAMAT RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY34R : HME 1.0NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY34L : HME 0.5NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY04 : HME 1.7NM FM DER - 1.1NM to PLUTO SND 2.2NM to TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT |

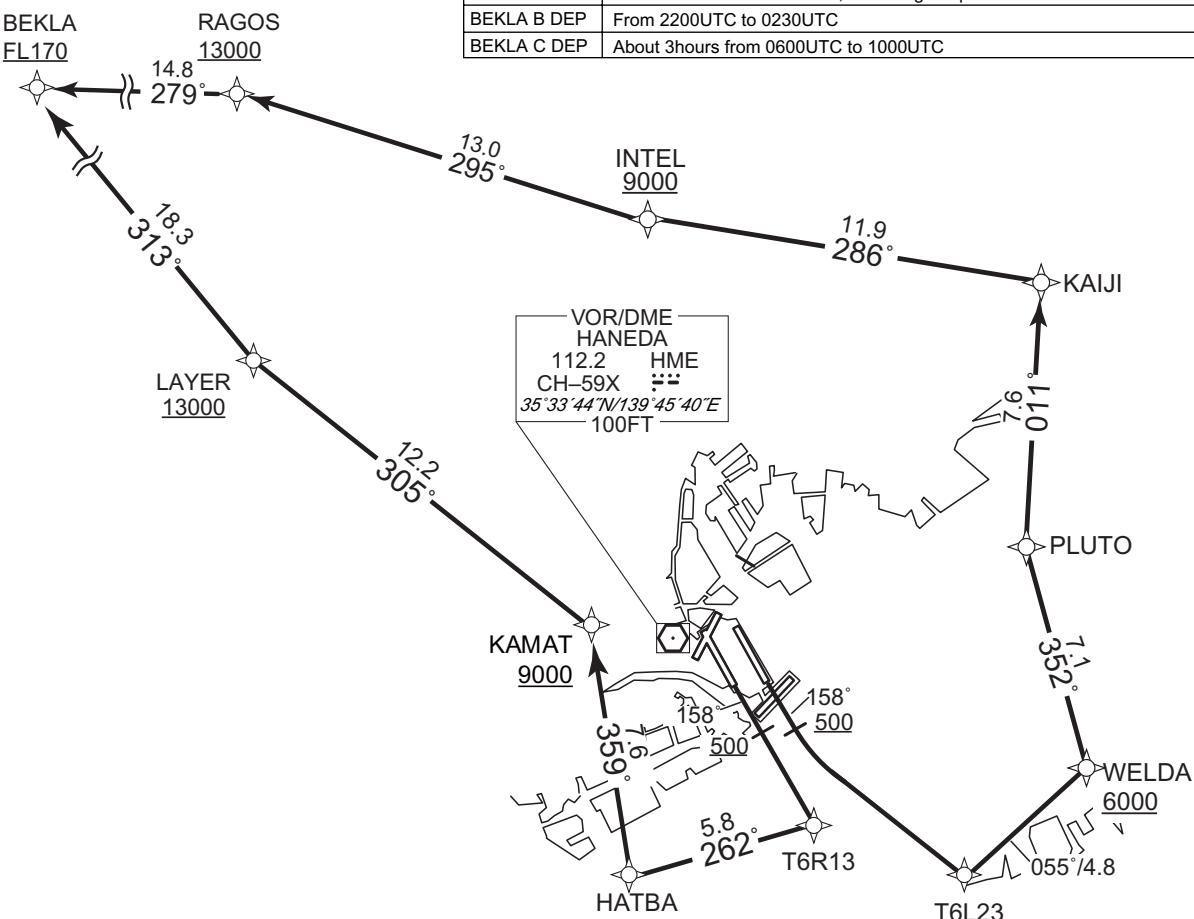
VAR8°W

BEKLA THREE A DEPARTURE RWY16R/16L

Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| BEKLA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| BEKLA B DEP | From 2200UTC to 0230UTC |
| BEKLA C DEP | About 3hours from 0600UTC to 1000UTC |

CHANGE : PROC renamed. Course FM T6R13 to HATBA



STANDARD DEPARTURE CHART-INSTRUMENT

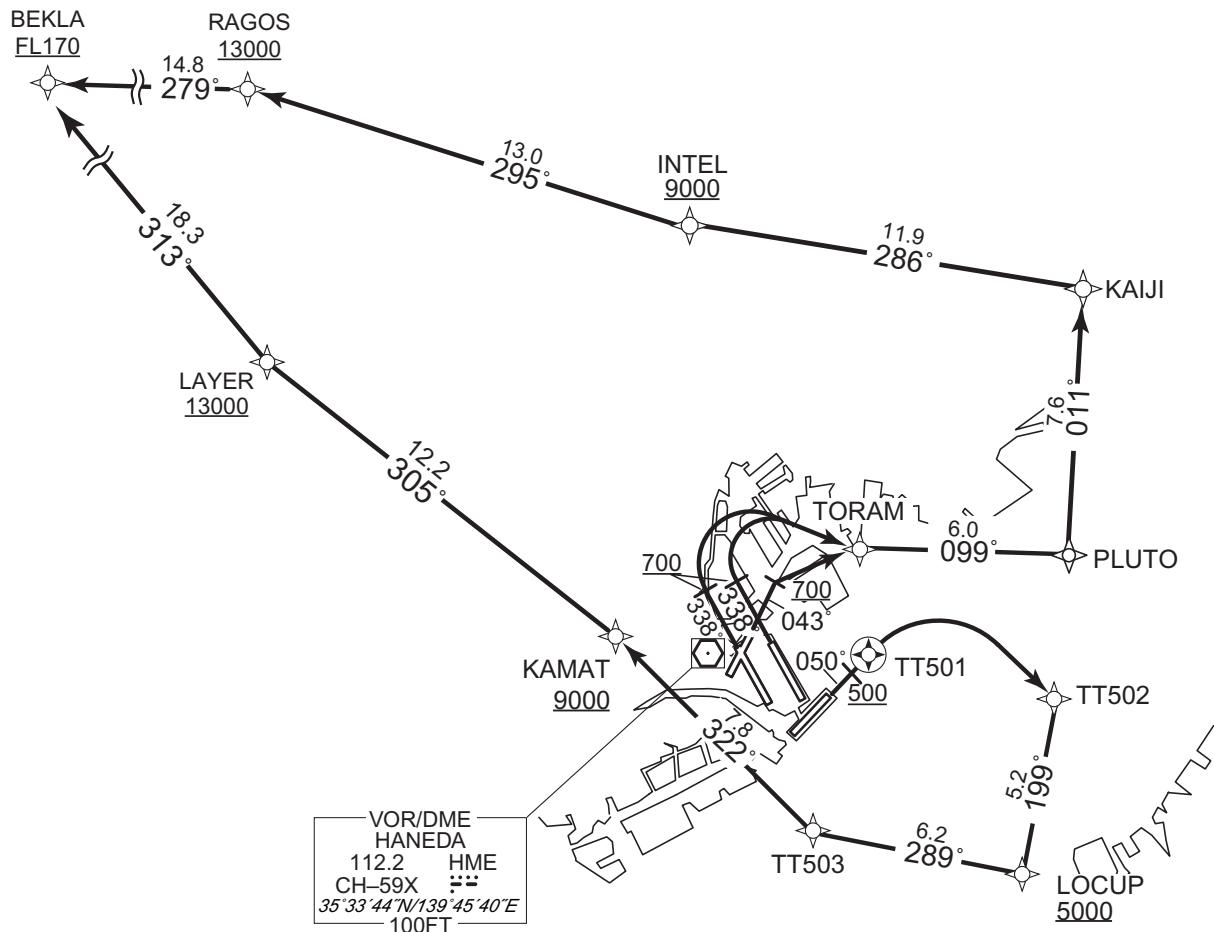
RJTT/TOKYO INTL

RNAV SID

VAR8°W

BEKLA THREE A DEPARTURE RWY34L/34R/04/05

| | |
|---|---|
| Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off | |
| SID designator | Period |
| BEKLA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| BEKLA B DEP | From 2200UTC to 0230UTC |
| BEKLA C DEP | About 3hours from 0600UTC to 1000UTC |



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA THREE A DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY04 : Climb on HDG 043° at or above 700FT, direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA THREE A DEPARTURE

RWY16R

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R13 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | HATBA | — | 262 (253.8) | -7.9 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | KAMAT | — | 359 (351.1) | -7.9 | 7.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 006 | TF | BEKLA | — | 313 (305.4) | -7.9 | 18.3 | — | +FL170 | — | — | RNAV1 |

RWY16L

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L23 | — | — | -7.9 | — | L | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 055 (047.3) | -7.9 | 4.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.9 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | INTEL | — | 286 (278.4) | -7.9 | 11.9 | — | +9000 | — | — | RNAV1 |
| 007 | TF | RAGOS | — | 295 (287.2) | -7.9 | 13.0 | — | +13000 | — | — | RNAV1 |
| 008 | TF | BEKLA | — | 279 (271.2) | -7.9 | 14.8 | — | +FL170 | — | — | RNAV1 |

CHANGE : PROC course. VAR.

RWY34L/RWY34R

| 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 | — | — | 338 (330.0) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TORAM | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | PLUTO | — | 099 (090.7) | -7.9 | 6.0 | — | — | — | — | RNAV1 |
| 004 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | INTEL | — | 286 (278.4) | -7.9 | 11.9 | — | +9000 | — | — | RNAV1 |
| 006 | TF | RAGOS | — | 295 (287.2) | -7.9 | 13.0 | — | +13000 | — | — | RNAV1 |
| 007 | TF | BEKLA | — | 279 (271.2) | -7.9 | 14.8 | — | +FL170 | — | — | RNAV1 |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

| 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 | — | — | 043 (034.9) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TORAM | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | PLUTO | — | 099 (090.7) | -7.9 | 6.0 | — | — | — | — | RNAV1 |
| 004 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | INTEL | — | 286 (278.4) | -7.9 | 11.9 | — | +9000 | — | — | RNAV1 |
| 006 | TF | RAGOS | — | 295 (287.2) | -7.9 | 13.0 | — | +13000 | — | — | RNAV1 |
| 007 | TF | BEKLA | — | 279 (271.2) | -7.9 | 14.8 | — | +FL170 | — | — | RNAV1 |

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TT503 | — | 289 (280.8) | -7.9 | 6.2 | — | — | — | — | RNAV1 |
| 006 | TF | KAMAT | — | 322 (314.2) | -7.9 | 7.8 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 008 | TF | BEKLA | — | 313 (305.4) | -7.9 | 18.3 | — | +FL170 | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| BEKLA | 354958.7N / 1391009.5E | RAGOS | 354942.2N / 1392821.2E |
| HATBA | 352623.4N / 1394315.9E | T6L23 | 352627.6N / 1395539.1E |
| INTEL | 354553.0N / 1394340.2E | T6R13 | 352800.8N / 1395006.4E |
| KAIJI | 354409.6N / 1395806.6E | TORAM | 353636.8N / 1395011.0E |
| KAMAT | 353353.6N / 1394148.9E | TT501 | 353328.7N / 1395029.9E |
| LAYER | 353925.4N / 1392829.5E | TT502 | 353224.4N / 1395720.7E |
| LOCUP | 352718.8N / 1395608.5E | TT503 | 352828.0N / 1394840.4E |
| PLUTO | 353632.1N / 1395736.8E | WELDA | 352941.4N / 1395956.7E |

CHANGE : PROC course. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA THREE B 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.

2) RADAR service required.

DME GAP

RWY16R : DER - 1.2NM FM DER
RWY16L : DER - 1.0NM FM DER
RWY34R : DER - 1.0NM FM DER
RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT

Inappropriate Navaids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

Critical DME

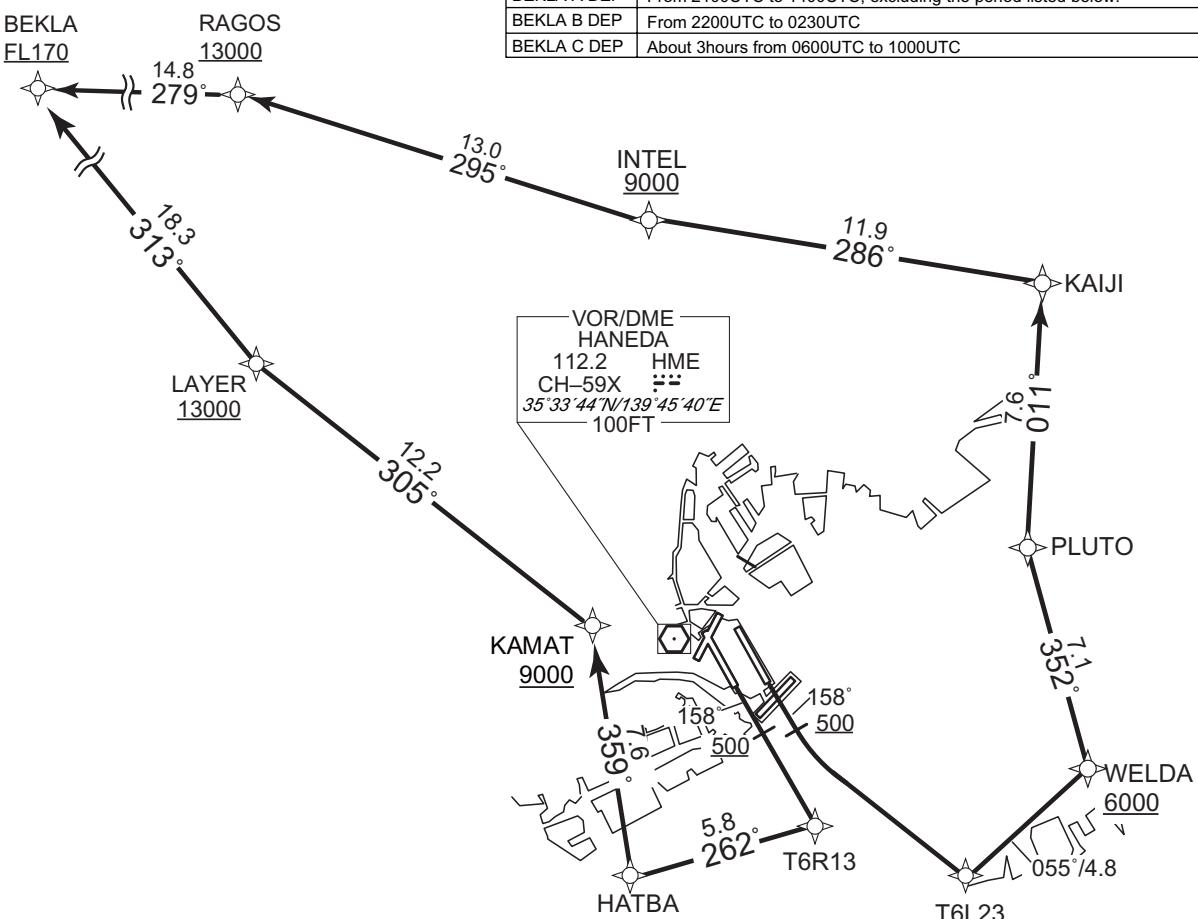
RWY16R : HME 1.2NM FM DER - HATBA
HYD 2.8NM to HATBA - 1.6NM to HATBA
PQD HATBA - 1.6NM to KAMAT
RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23
PQD 6.6NM to KAIJI - KAIJI
NRE 6.9NM to INTEL - INTEL
RWY05 : HME DER - 2.7NM to TT502
TT503 - 3.8NM to KAMAT
1.8NM to KAMAT - KAMAT
HYD 1.2NM to TT503 - TT503
4.8NM to KAMAT - 3.8NM to KAMAT

VAR8°W

BEKLA THREE B DEPARTURE RWY16R/16L

Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| BEKLA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| BEKLA B DEP | From 2200UTC to 0230UTC |
| BEKLA C DEP | About 3hours from 0600UTC to 1000UTC |



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

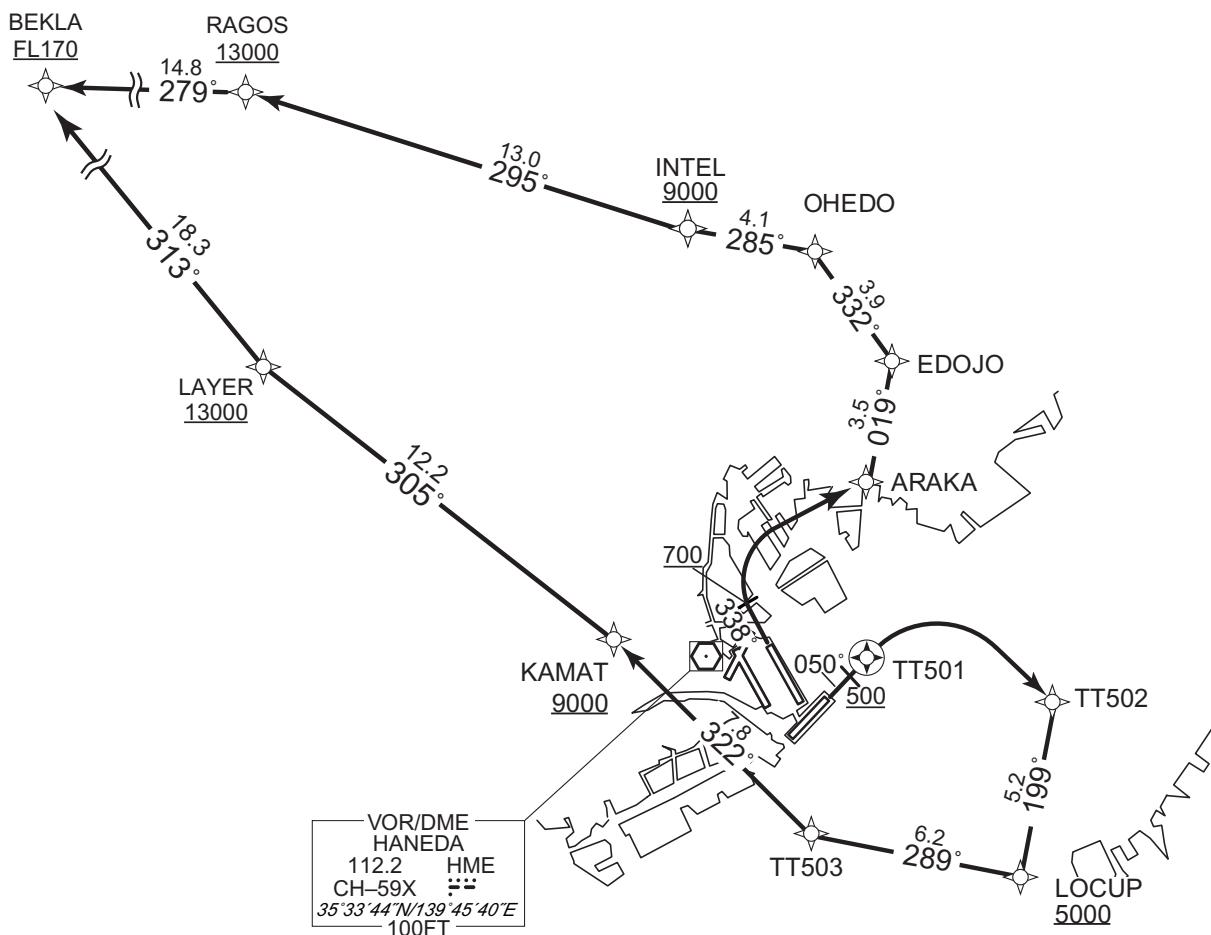
RNAV SID

VAR8°W

BEKLA THREE B DEPARTURE RWY34R/05

Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| BEKLA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| BEKLA B DEP | From 2200UTC to 0230UTC |
| BEKLA C DEP | About 3hours from 0600UTC to 1000UTC |



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA THREE B DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA THREE B DEPARTURE

RWY16R

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R13 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | HATBA | — | 262 (253.8) | -7.9 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | KAMAT | — | 359 (351.1) | -7.9 | 7.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 006 | TF | BEKLA | — | 313 (305.4) | -7.9 | 18.3 | — | +FL170 | — | — | RNAV1 |

RWY16L

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L23 | — | — | -7.9 | — | L | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 055 (047.3) | -7.9 | 4.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.9 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | INTEL | — | 286 (278.4) | -7.9 | 11.9 | — | +9000 | — | — | RNAV1 |
| 007 | TF | RAGOS | — | 295 (287.2) | -7.9 | 13.0 | — | +13000 | — | — | RNAV1 |
| 008 | TF | BEKLA | — | 279 (271.2) | -7.9 | 14.8 | — | +FL170 | — | — | RNAV1 |

CHANGE : PROC renamed. PROC course. VAR.

RWY34R

| 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 | — | — | 338 (330.0) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | ARAKA | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | EDOJO | — | 019 (010.8) | -7.9 | 3.5 | — | — | — | — | RNAV1 |
| 004 | TF | OHEDO | — | 332 (323.7) | -7.9 | 3.9 | — | — | — | — | RNAV1 |
| 005 | TF | INTEL | — | 285 (277.0) | -7.9 | 4.1 | — | +9000 | — | — | RNAV1 |
| 006 | TF | RAGOS | — | 295 (287.2) | -7.9 | 13.0 | — | +13000 | — | — | RNAV1 |
| 007 | TF | BEKLA | — | 279 (271.2) | -7.9 | 14.8 | — | +FL170 | — | — | RNAV1 |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TT503 | — | 289 (280.8) | -7.9 | 6.2 | — | — | — | — | RNAV1 |
| 006 | TF | KAMAT | — | 322 (314.2) | -7.9 | 7.8 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 008 | TF | BEKLA | — | 313 (305.4) | -7.9 | 18.3 | — | +FL170 | — | — | RNAV1 |

CHANGE : Course FM LOCUP to TT503. VAR.

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ARAKA | 353848.8N / 1395041.9E | OHEDO | 354523.4N / 1394838.6E |
| BEKLA | 354958.7N / 1391009.5E | PLUTO | 353632.1N / 1395736.8E |
| EDOJO | 354214.0N / 1395129.9E | RAGOS | 354942.2N / 1392821.2E |
| HATBA | 352623.4N / 1394315.9E | T6L23 | 352627.6N / 1395539.1E |
| INTEL | 354553.0N / 1394340.2E | T6R13 | 352800.8N / 1395006.4E |
| KAIJI | 354409.6N / 1395806.6E | TT501 | 353328.7N / 1395029.9E |
| KAMAT | 353353.6N / 1394148.9E | TT502 | 353224.4N / 1395720.7E |
| LAYER | 353925.4N / 1392829.5E | TT503 | 352828.0N / 1394840.4E |
| LOCUP | 352718.8N / 1395608.5E | WELDA | 352941.4N / 1395956.7E |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

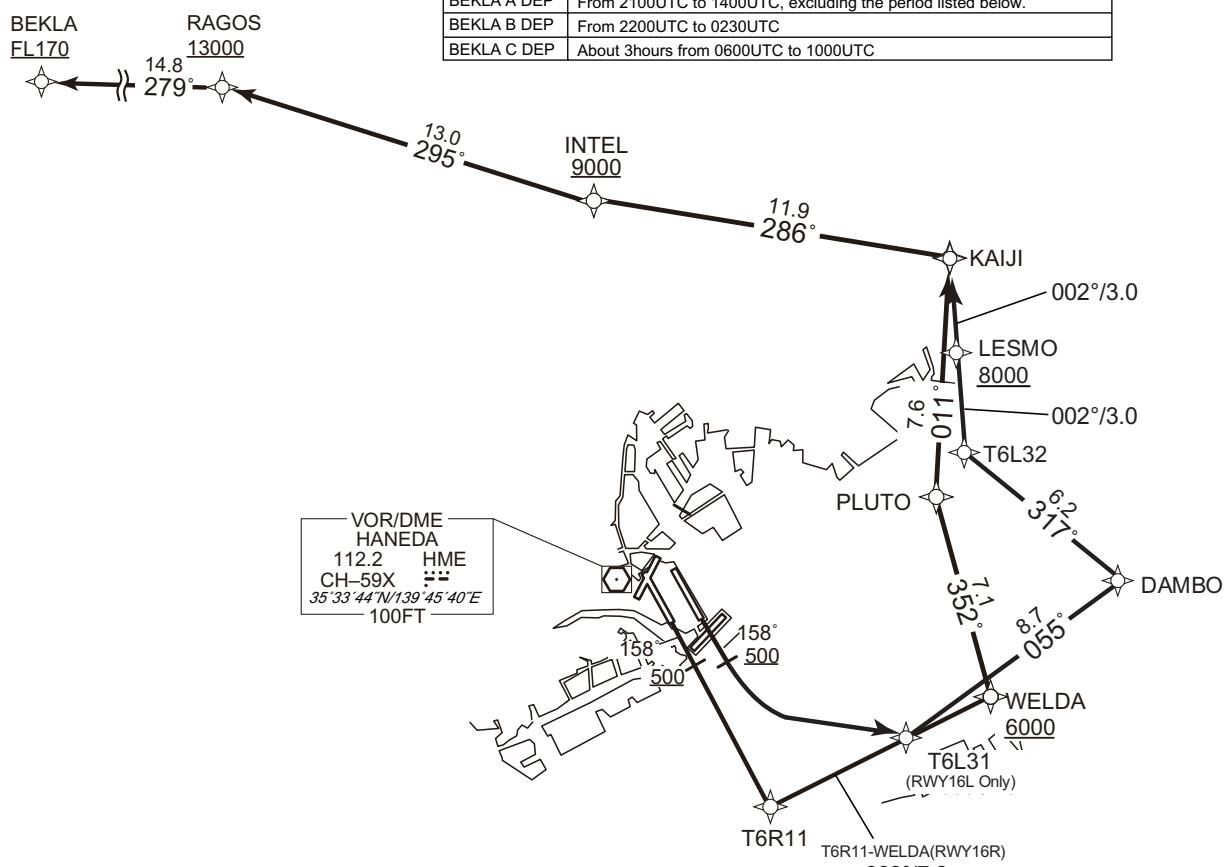
| BEKLA FOUR C DEPARTURE | | | RNAV1 |
|---|---|--------------|---|
| <p>Note 1) DME/DME/IRU or GNSS required.</p> <p>※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling.</p> <p>2) RADAR service required.</p> | | | |
| DME GAP | <p>RWY16R : DER - 1.2NM FM DER</p> <p>RWY16L : DER - 1.0NM FM DER</p> <p>RWY34R : DER - 1.0NM FM DER</p> <p>RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT</p> | Critical DME | <p>RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL</p> <p>RWY16L : NRE 6.9NM to INTEL - INTEL</p> <p>RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT</p> |
| Inappropriate Nav aids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | | |

VAR8°W

BEKLA FOUR C DEPARTURE RWY16R/16L

Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| BEKLA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| BEKLA B DEP | From 2200UTC to 0230UTC |
| BEKLA C DEP | About 3hours from 0600UTC to 1000UTC |



CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

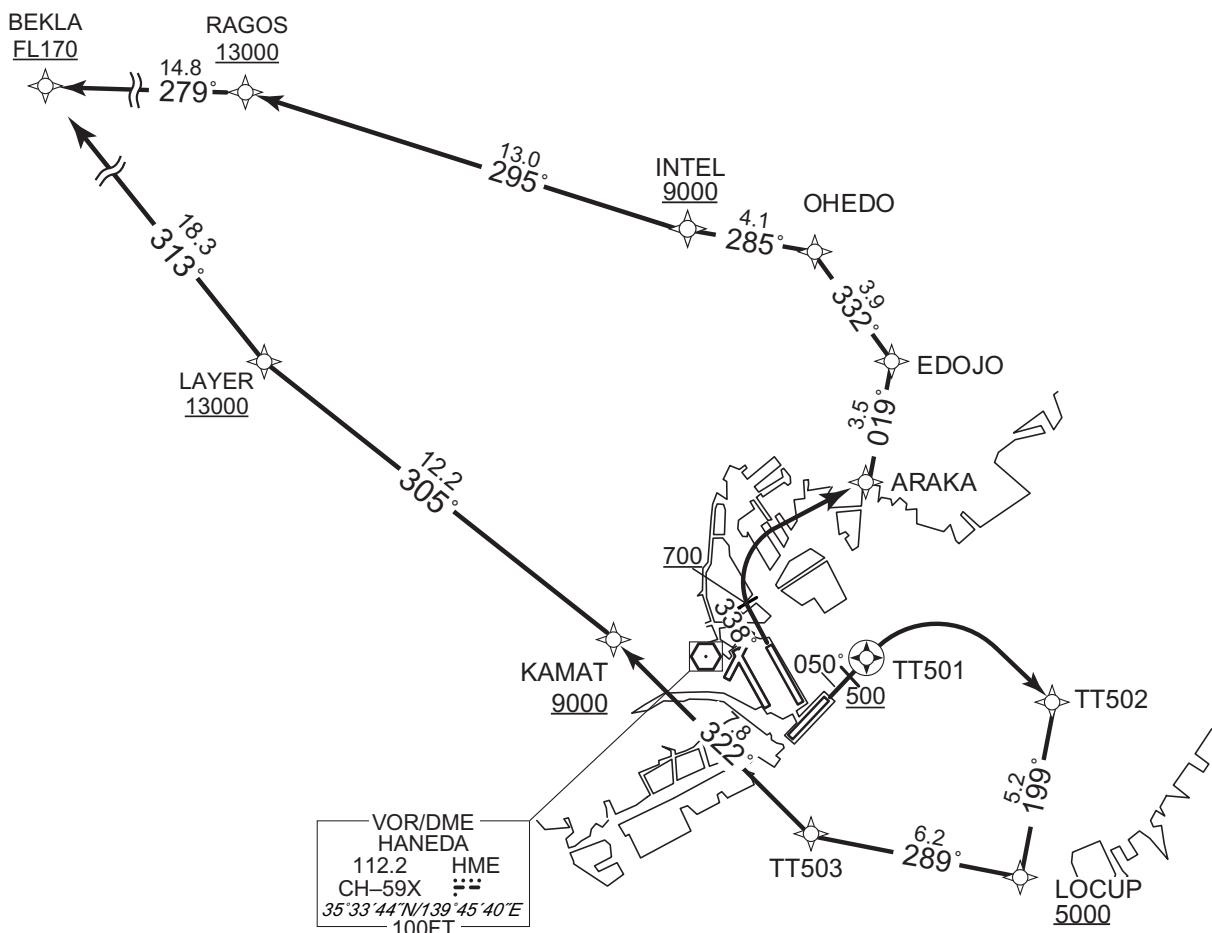
RNAV SID

VAR8°W

BEKLA FOUR C DEPARTURE RWY34R/05

Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| BEKLA A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| BEKLA B DEP | From 2200UTC to 0230UTC |
| BEKLA C DEP | About 3hours from 0600UTC to 1000UTC |



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA FOUR C DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L31, to DAMBO, to T6L32, to LESMO at or above 8000FT, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA FOUR C DEPARTURE

RWY16R

| 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 | – | – | 158 (150.0) | -7.9 | – | – | +500 | – | – | RNAV1 |
| 002 | DF | T6R11 | – | – | -7.9 | – | – | – | – | – | RNAV1 |
| 003 | TF | WELDA | – | 068 (060.6) | -7.9 | 7.8 | – | +6000 | – | – | RNAV1 |
| 004 | TF | PLUTO | – | 352 (344.5) | -7.9 | 7.1 | – | – | – | – | RNAV1 |
| 005 | TF | KAIJI | – | 011 (003.0) | -7.9 | 7.6 | – | – | – | – | RNAV1 |
| 006 | TF | INTEL | – | 286 (278.4) | -7.9 | 11.9 | – | +9000 | – | – | RNAV1 |
| 007 | TF | RAGOS | – | 295 (287.2) | -7.9 | 13.0 | – | +13000 | – | – | RNAV1 |
| 008 | TF | BEKLA | – | 279 (271.2) | -7.9 | 14.8 | – | +FL170 | – | – | RNAV1 |

RWY16L

| 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 | – | – | 158 (150.0) | -7.9 | – | – | +500 | – | – | RNAV1 |
| 002 | DF | T6L31 | – | – | -7.9 | – | L | – | – | – | RNAV1 |
| 003 | TF | DAMBO | – | 055 (047.5) | -7.9 | 8.7 | – | – | – | – | RNAV1 |
| 004 | TF | T6L32 | – | 317 (309.4) | -7.9 | 6.2 | – | – | – | – | RNAV1 |
| 005 | TF | LESMO | – | 002 (354.1) | -7.9 | 3.0 | – | +8000 | – | – | RNAV1 |
| 006 | TF | KAIJI | – | 002 (354.1) | -7.9 | 3.0 | – | – | – | – | RNAV1 |
| 007 | TF | INTEL | – | 286 (278.4) | -7.9 | 11.9 | – | +9000 | – | – | RNAV1 |
| 008 | TF | RAGOS | – | 295 (287.2) | -7.9 | 13.0 | – | +13000 | – | – | RNAV1 |
| 009 | TF | BEKLA | – | 279 (271.2) | -7.9 | 14.8 | – | +FL170 | – | – | RNAV1 |

RWY34R

| 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 | – | – | 338 (330.0) | -7.9 | – | – | +700 | – | – | RNAV1 |
| 002 | DF | ARAKA | – | – | -7.9 | – | R | – | – | – | RNAV1 |
| 003 | TF | EDOJO | – | 019 (010.8) | -7.9 | 3.5 | – | – | – | – | RNAV1 |
| 004 | TF | OHEDO | – | 332 (323.7) | -7.9 | 3.9 | – | – | – | – | RNAV1 |
| 005 | TF | INTEL | – | 285 (277.0) | -7.9 | 4.1 | – | +9000 | – | – | RNAV1 |
| 006 | TF | RAGOS | – | 295 (287.2) | -7.9 | 13.0 | – | +13000 | – | – | RNAV1 |
| 007 | TF | BEKLA | – | 279 (271.2) | -7.9 | 14.8 | – | +FL170 | – | – | RNAV1 |

CHANGE : PROC renamed. PROC course. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TT503 | — | 289 (280.8) | -7.9 | 6.2 | — | — | — | — | RNAV1 |
| 006 | TF | KAMAT | — | 322 (314.2) | -7.9 | 7.8 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 008 | TF | BEKLA | — | 313 (305.4) | -7.9 | 18.3 | — | +FL170 | — | — | RNAV1 |

CHANGE : Course FM LOCUP to TT503. VAR.

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ARAKA | 353848.8N / 1395041.9E | OHEDO | 354523.4N / 1394838.6E |
| BEKLA | 354958.7N / 1391009.5E | PLUTO | 353632.1N / 1395736.8E |
| DAMBO | 353416.5N / 1400443.4E | RAGOS | 354942.2N / 1392821.2E |
| EDOJO | 354214.0N / 1395129.9E | T6L31 | 352822.8N / 1395648.0E |
| INTEL | 354553.0N / 1394340.2E | T6L32 | 353810.9N / 1395852.2E |
| KAIJI | 354409.6N / 1395806.6E | T6R11 | 352552.5N / 1395137.2E |
| KAMAT | 353353.6N / 1394148.9E | TT501 | 353328.7N / 1395029.9E |
| LAYER | 353925.4N / 1392829.5E | TT502 | 353224.4N / 1395720.7E |
| LESMO | 354110.3N / 1395829.4E | TT503 | 352828.0N / 1394840.4E |
| LOCUP | 352718.8N / 1395608.5E | WELDA | 352941.4N / 1395956.7E |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

| ROVER THREE A DEPARTURE | | RNAV SID |
|--|--|--|
| 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. 2) RADAR service required. | | RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI RWY34R : HME 1.0NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY34L : HME 0.5NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY04 : HME 1.7NM FM DER - 1.1NM to PLUTO SND 2.2NM to TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY05 : HME DER - 2.2NM to PLUTO PQD 6.6NM to KAIJI - KAIJI |
| DME GAP | RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER | Critical DME |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | |

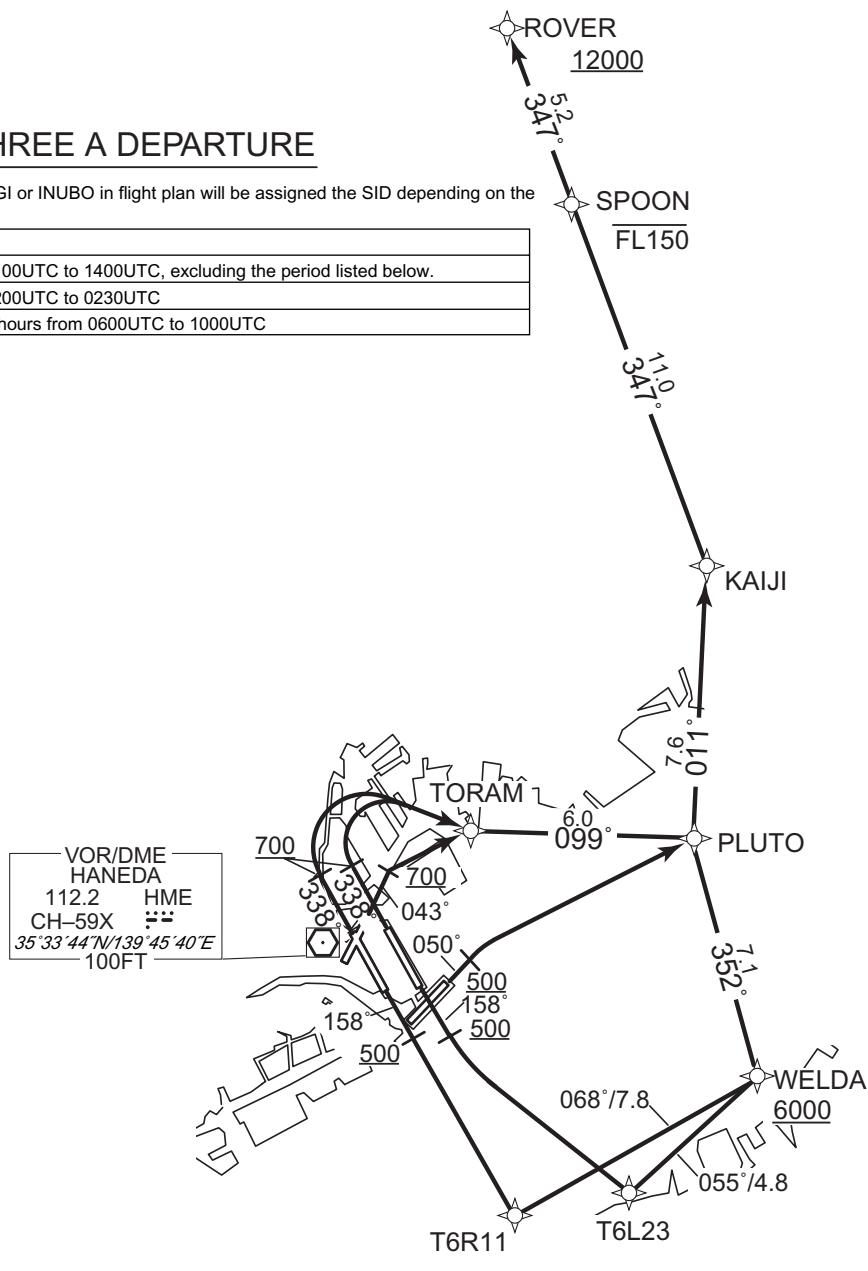
VAR8°W

ROVER THREE A DEPARTURE

Aircraft filing AGRIS, AKAGI or INUBO in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| ROVER A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| ROVER B DEP | From 2200UTC to 0230UTC |
| ROVER C DEP | About 3hours from 0600UTC to 1000UTC |

CHANGE : PROC renamed. Course FM TORAM to PLUTO.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER THREE A DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11,
to WELDA at or above 6000FT, to PLUTO, to KAIJI,
to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23,
to WELDA at or above 6000FT, to PLUTO, to KAIJI,
to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to
TORAM, to PLUTO, to KAIJI, to SPOON at or below FL150,
to ROVER at or above 12000FT.

RWY04 : Climb on HDG 043° at or above 700FT, direct to TORAM, to PLUTO,
to KAIJI, to SPOON at or below FL150, to ROVER at or above
12000FT.

RWY05 :Climb on HDG 050° at or above 500FT, turn right direct to PLUTO,
to KAIJI, to SPOON at or below FL150, to ROVER at or above
12000FT.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER THREE A DEPARTURE

RWY16R

| 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 | – | – | 158 (150.0) | -7.9 | – | – | +500 | – | – | RNAV1 |
| 002 | DF | T6R11 | – | – | -7.9 | – | – | – | – | – | RNAV1 |
| 003 | TF | WELDA | – | 068 (060.6) | -7.9 | 7.8 | – | +6000 | – | – | RNAV1 |
| 004 | TF | PLUTO | – | 352 (344.5) | -7.9 | 7.1 | – | – | – | – | RNAV1 |
| 005 | TF | KAIJI | – | 011 (003.0) | -7.9 | 7.6 | – | – | – | – | RNAV1 |
| 006 | TF | SPOON | – | 347 (339.2) | -7.9 | 11.0 | – | -FL150 | – | – | RNAV1 |
| 007 | TF | ROVER | – | 347 (339.1) | -7.9 | 5.2 | – | +12000 | – | – | RNAV1 |

RWY16L

| 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 | – | – | 158 (150.0) | -7.9 | – | – | +500 | – | – | RNAV1 |
| 002 | DF | T6L23 | – | – | -7.9 | – | L | – | – | – | RNAV1 |
| 003 | TF | WELDA | – | 055 (047.3) | -7.9 | 4.8 | – | +6000 | – | – | RNAV1 |
| 004 | TF | PLUTO | – | 352 (344.5) | -7.9 | 7.1 | – | – | – | – | RNAV1 |
| 005 | TF | KAIJI | – | 011 (003.0) | -7.9 | 7.6 | – | – | – | – | RNAV1 |
| 006 | TF | SPOON | – | 347 (339.2) | -7.9 | 11.0 | – | -FL150 | – | – | RNAV1 |
| 007 | TF | ROVER | – | 347 (339.1) | -7.9 | 5.2 | – | +12000 | – | – | RNAV1 |

RWY34L/RWY34R

| 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 | – | – | 338 (330.0) | -7.9 | – | – | +700 | – | – | RNAV1 |
| 002 | DF | TORAM | – | – | -7.9 | – | R | – | – | – | RNAV1 |
| 003 | TF | PLUTO | – | 099 (090.7) | -7.9 | 6.0 | – | – | – | – | RNAV1 |
| 004 | TF | KAIJI | – | 011 (003.0) | -7.9 | 7.6 | – | – | – | – | RNAV1 |
| 005 | TF | SPOON | – | 347 (339.2) | -7.9 | 11.0 | – | -FL150 | – | – | RNAV1 |
| 006 | TF | ROVER | – | 347 (339.1) | -7.9 | 5.2 | – | +12000 | – | – | RNAV1 |

CHANGE : PROC renamed. Course FM TORAM to PLUTO. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

| 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 | — | — | 043 (034.9) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TORAM | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | PLUTO | — | 099 (090.7) | -7.9 | 6.0 | — | — | — | — | RNAV1 |
| 004 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | SPOON | — | 347 (339.2) | -7.9 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 006 | TF | ROVER | — | 347 (339.1) | -7.9 | 5.2 | — | +12000 | — | — | RNAV1 |

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | PLUTO | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 004 | TF | SPOON | — | 347 (339.2) | -7.9 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 005 | TF | ROVER | — | 347 (339.1) | -7.9 | 5.2 | — | +12000 | — | — | RNAV1 |

CHANGE : Course FM TORAM to PLUTO. VAR.

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| KAIJI | 354409.6N / 1395806.6E | T6L23 | 352627.6N / 1395539.1E |
| PLUTO | 353632.1N / 1395736.8E | T6R11 | 352552.5N / 1395137.2E |
| ROVER | 355918.3N / 1395059.3E | TORAM | 353636.8N / 1395011.0E |
| SPOON | 355428.3N / 1395316.0E | WELDA | 352941.4N / 1395956.7E |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER THREE B 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.
 2) RADAR service required.

DME GAP
 RWY16R : DER - 1.2NM FM DER
 RWY16L : DER - 1.0NM FM DER
 RWY34R : DER - 1.0NM FM DER

Inappropriate Navaids
 See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

Critical DME

RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11
 PQD 6.6NM to KAIJI - KAIJI
 RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23
 PQD 6.6NM to KAIJI - KAIJI
 RWY05 : HME DER - 2.2NM to PLUTO
 PQD 6.6NM to KAIJI - KAIJI

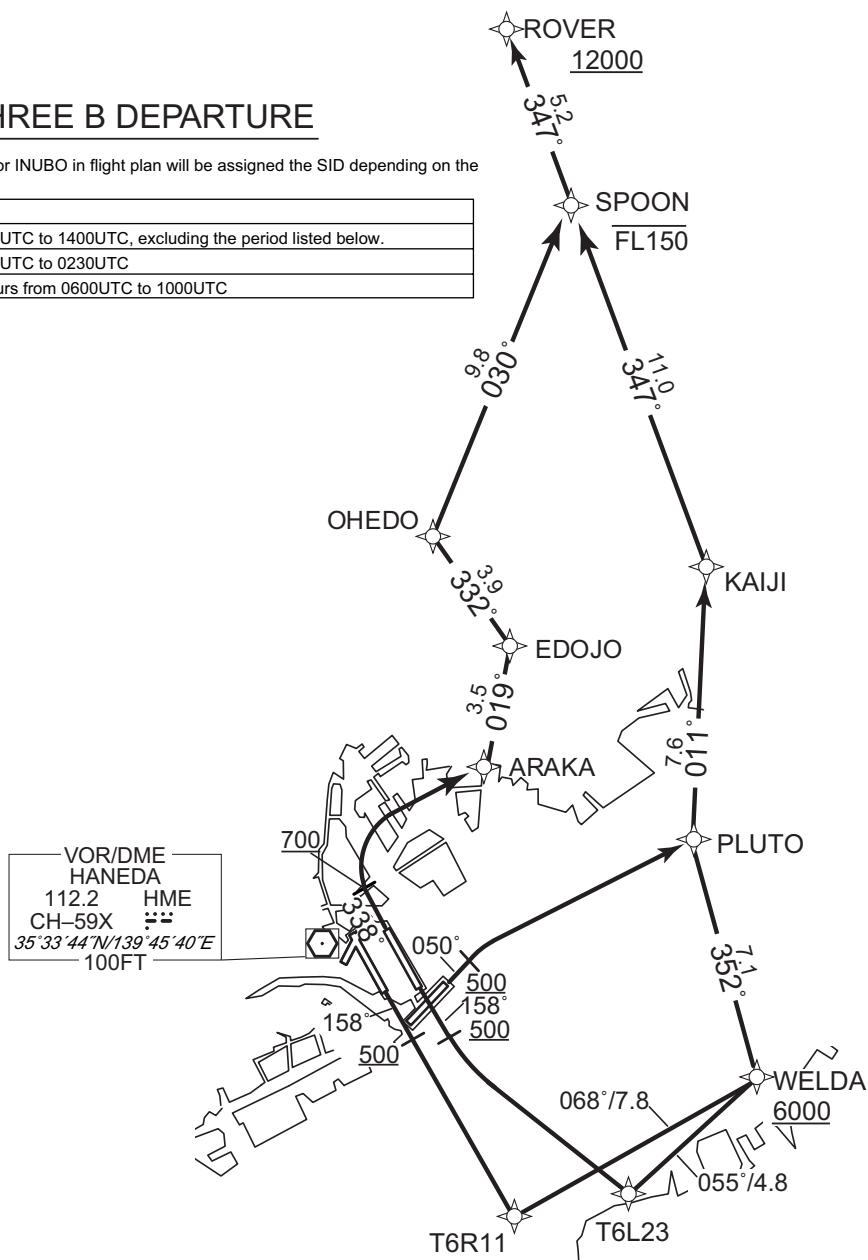
VAR8°W

ROVER THREE B DEPARTURE

Aircraft filing AGRIS, AKAGI or INUBO in flight plan will be assigned the SID depending on the time of take-off

| SID designator | Period |
|----------------|---|
| ROVER A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| ROVER B DEP | From 2200UTC to 0230UTC |
| ROVER C DEP | About 3hours from 0600UTC to 1000UTC |

CHANGE : PROC renamed. PROC course.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER THREE B DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY05 :Climb on HDG 050° at or above 500FT, turn right direct to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER THREE B DEPARTURE

RWY16R

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R11 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 068 (060.6) | -7.9 | 7.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.9 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | SPOON | — | 347 (339.2) | -7.9 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 007 | TF | ROVER | — | 347 (339.1) | -7.9 | 5.2 | — | +12000 | — | — | RNAV1 |

RWY16L

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L23 | — | — | -7.9 | — | L | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 055 (047.3) | -7.9 | 4.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.9 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | SPOON | — | 347 (339.2) | -7.9 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 007 | TF | ROVER | — | 347 (339.1) | -7.9 | 5.2 | — | +12000 | — | — | RNAV1 |

CHANGE : PROC renamed. PROC course. VAR.

RWY34R

| 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 | — | — | 338 (330.0) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | ARAKA | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | EDOJO | — | 019 (010.8) | -7.9 | 3.5 | — | — | — | — | RNAV1 |
| 004 | TF | OHEDO | — | 332 (323.7) | -7.9 | 3.9 | — | — | — | — | RNAV1 |
| 005 | TF | SPOON | — | 030 (022.4) | -7.9 | 9.8 | — | -FL150 | — | — | RNAV1 |
| 006 | TF | ROVER | — | 347 (339.1) | -7.9 | 5.2 | — | +12000 | — | — | RNAV1 |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | PLUTO | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 004 | TF | SPOON | — | 347 (339.2) | -7.9 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 005 | TF | ROVER | — | 347 (339.1) | -7.9 | 5.2 | — | +12000 | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ARAKA | 353848.8N / 1395041.9E | ROVER | 355918.3N / 1395059.3E |
| EDOJO | 354214.0N / 1395129.9E | SPOON | 355428.3N / 1395316.0E |
| KAIJI | 354409.6N / 1395806.6E | T6L23 | 352627.6N / 1395539.1E |
| OHEDO | 354523.4N / 1394838.6E | T6R11 | 352552.5N / 1395137.2E |
| PLUTO | 353632.1N / 1395736.8E | WELDA | 352941.4N / 1395956.7E |

CHANGE : VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

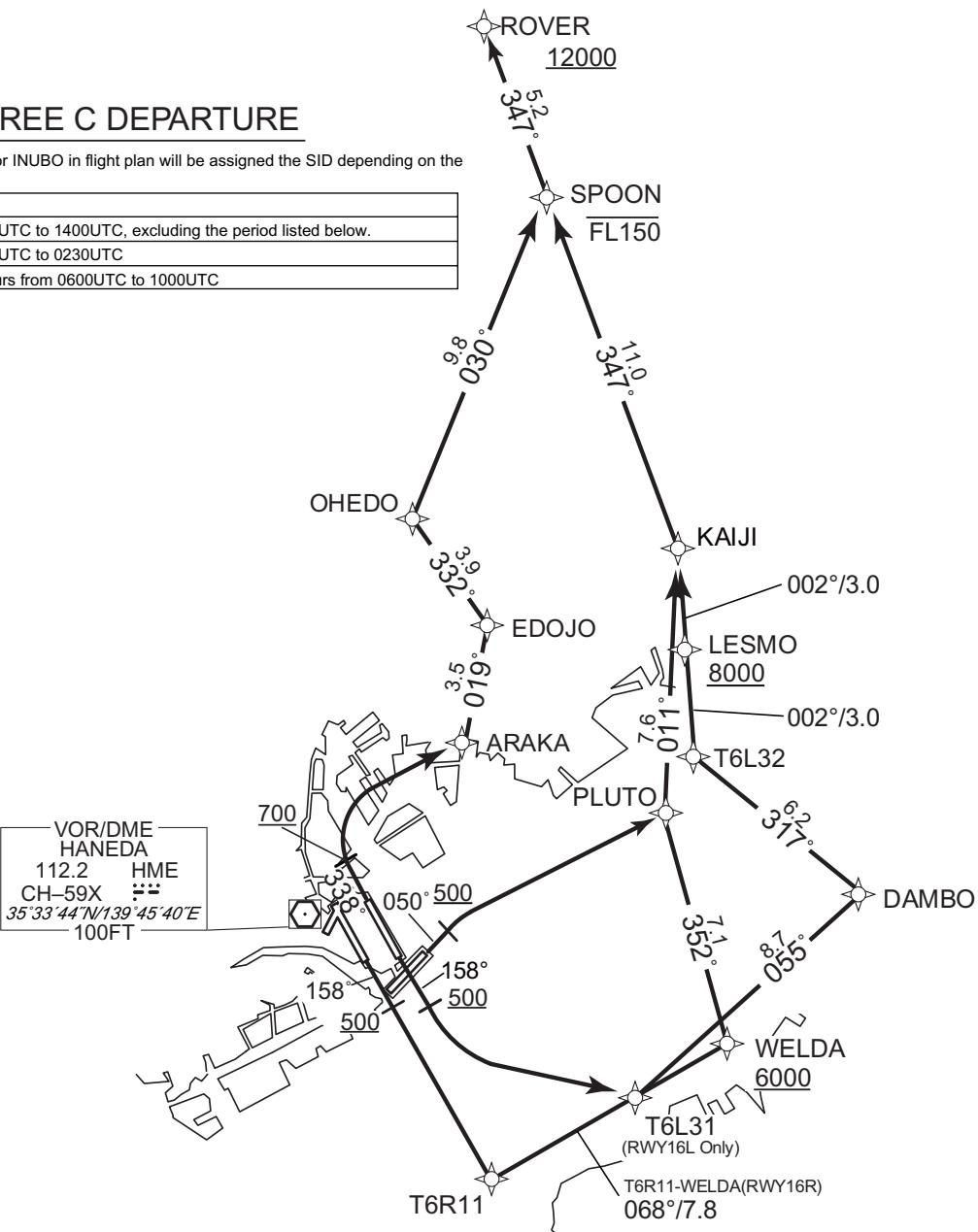
| ROVER THREE C DEPARTURE | | RNAV1 |
|--|--|--|
| Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required. | | |
| DME GAP | RWY16R: DER - 1.2NM FM DER RWY16L: DER - 1.0NM FM DER RWY34R: DER - 1.0NM FM DER | Critical DME RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI RWY05 : HME DER - 2.2NM to PLUTO PQD 6.6NM to KAIJI - KAIJI |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | |

VAR8°W

ROVER THREE C DEPARTURE

Aircraft filing AGRIS, AKAGI or INUBO in flight plan will be assigned the SID depending on the time of take-off

| | |
|----------------|---|
| SID designator | Period |
| ROVER A DEP | From 2100UTC to 1400UTC, excluding the period listed below. |
| ROVER B DEP | From 2200UTC to 0230UTC |
| ROVER C DEP | About 3hours from 0600UTC to 1000UTC |



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER THREE C DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L31, to DAMBO, to T6L32, to LESMO at or above 8000FT, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY05 : Climb on HDG 050° at or above 500FT, turn right direct to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER THREE C DEPARTURE

RWY16R

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R11 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 068 (060.6) | -7.9 | 7.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.9 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | SPOON | — | 347 (339.2) | -7.9 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 007 | TF | ROVER | — | 347 (339.1) | -7.9 | 5.2 | — | +12000 | — | — | RNAV1 |

RWY16L

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L31 | — | — | -7.9 | — | L | — | — | — | RNAV1 |
| 003 | TF | DAMBO | — | 055 (047.5) | -7.9 | 8.7 | — | — | — | — | RNAV1 |
| 004 | TF | T6L32 | — | 317 (309.4) | -7.9 | 6.2 | — | — | — | — | RNAV1 |
| 005 | TF | LESMO | — | 002 (354.1) | -7.9 | 3.0 | — | +8000 | — | — | RNAV1 |
| 006 | TF | KAIJI | — | 002 (354.1) | -7.9 | 3.0 | — | — | — | — | RNAV1 |
| 007 | TF | SPOON | — | 347 (339.2) | -7.9 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 008 | TF | ROVER | — | 347 (339.1) | -7.9 | 5.2 | — | +12000 | — | — | RNAV1 |

RWY34R

| 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 | — | — | 338 (330.0) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | ARAKA | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | EDOJO | — | 019 (010.8) | -7.9 | 3.5 | — | — | — | — | RNAV1 |
| 004 | TF | OHEDO | — | 332 (323.7) | -7.9 | 3.9 | — | — | — | — | RNAV1 |
| 005 | TF | SPOON | — | 030 (022.4) | -7.9 | 9.8 | — | -FL150 | — | — | RNAV1 |
| 006 | TF | ROVER | — | 347 (339.1) | -7.9 | 5.2 | — | +12000 | — | — | RNAV1 |

CHANGE : PROC renamed. PROG course. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | PLUTO | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | KAIJI | — | 011 (003.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 004 | TF | SPOON | — | 347 (339.2) | -7.9 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 005 | TF | ROVER | — | 347 (339.1) | -7.9 | 5.2 | — | +12000 | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ARAKA | 353848.8N / 1395041.9E | ROVER | 355918.3N / 1395059.3E |
| DAMBO | 353416.5N / 1400443.4E | SPOON | 355428.3N / 1395316.0E |
| EDOJO | 354214.0N / 1395129.9E | T6L31 | 352822.8N / 1395648.0E |
| KAIJI | 354409.6N / 1395806.6E | T6L32 | 353810.9N / 1395852.2E |
| LESMO | 354110.3N / 1395829.4E | T6R11 | 352552.5N / 1395137.2E |
| OHEDO | 354523.4N / 1394838.6E | WELDA | 352941.4N / 1395956.7E |
| PLUTO | 353632.1N / 1395736.8E | | |

CHANGE : VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

| RJTT/TOKYO INTL | | RNAV TRANSITION |
|--|--|-----------------|
| AKAGI TRANSITION / BRUCE TRANSITION/ INUBO TRANSITION | | RNAV1 |
| Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. | Critical DME | - |
| DME CAP | - | |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | |
| VAR8°W | | |
| <p>AKAGI TRANSITION</p> <p>AKAGI → 351° → CLARK → 351° → ROVER → 139° → BRUCE FL150 → 087° → SILVA FL170 → 087° → INUBO FL250 → 150° → NARITA INTL AP</p> <p>BRUCE TRANSITION</p> <p>AGRIS → 007° → BRUCE FL150 → 087° → LEWIS FL170 → 087° → SILVA FL170 → 087° → INUBO FL250 → 150° → NARITA INTL AP</p> <p>INUBO TRANSITION</p> <p>SILVA FL170 → 087° → INUBO FL250 → 150° → NARITA INTL AP</p> <p>VOR/DME NARITA</p> <ul style="list-style-type: none"> 117.9 CH-126X NRE 35°46'56"N/140°21'45"E 200FT | | |

CHANGE : PROC course.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV TRANSITION

AKAGI TRANSITION

From ROVER, to CLARK, to AKAGI.

| 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 | ROVER | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | CLARK | — | 351 (342.7) | -7.9 | 8.1 | — | — | — | — | RNAV1 |
| 003 | TF | AKAGI | — | 351 (343.4) | -7.9 | 17.2 | — | — | — | — | RNAV1 |

BRUCE TRANSITION

From ROVER, to BRUCE at or above FL150, to AGRIS.

| 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 | ROVER | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | BRUCE | — | 029 (020.7) | -7.9 | 13.6 | — | +FL150 | — | — | RNAV1 |
| 003 | TF | AGRIS | — | 007 (358.7) | -7.9 | 13.3 | — | — | — | — | RNAV1 |

INUBO TRANSITION

From ROVER, to BRUCE at or above FL150, to LEWIS at FL170, to SILVA at FL170, to INUBO at or above FL250.

| 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 | ROVER | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | BRUCE | — | 029 (020.7) | -7.9 | 13.6 | — | +FL150 | — | — | RNAV1 |
| 003 | TF | LEWIS | — | 087 (078.6) | -7.9 | 9.6 | — | FL170 | — | — | RNAV1 |
| 004 | TF | SILVA | — | 087 (078.8) | -7.9 | 7.3 | — | FL170 | — | — | RNAV1 |
| 005 | TF | INUBO | — | 150 (141.9) | -7.9 | 40.2 | — | +FL250 | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AGRIS | 362514.7N / 1395633.1E | INUBO | 354335.3N / 1404757.9E |
| AKAGI | 362328.3N / 1394156.3E | LEWIS | 361353.2N / 1400834.7E |
| BRUCE | 361200.4N / 1395655.9E | ROVER | 355918.3N / 1395059.3E |
| CLARK | 360702.0N / 1394800.5E | SILVA | 361518.0N / 1401726.0E |

STANDARD DEPARTURE CHART-INSTRUMENT

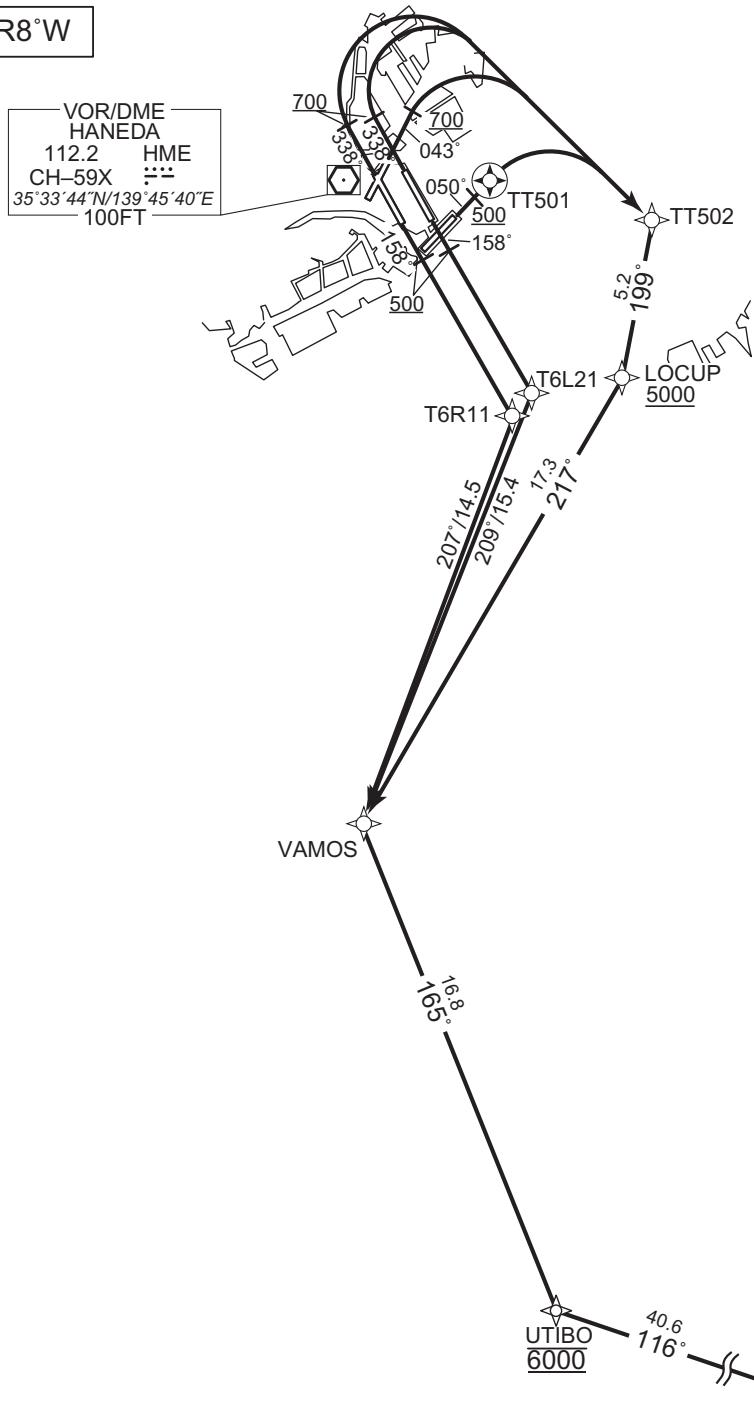
RJTT/TOKYO INTL

RNAV SID

| RUTAS THREE DEPARTURE | | RNAV1 |
|--|--|---|
| Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required. | Critical DME | RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 RWY16L : HME 1.0NM FM DER - 2.4NM to T6L21 RWY34R : HME 1.0NM FM DER - 2.5NM to TT502 RWY34L : HME 0.5NM FM DER - 2.5NM to TT502 RWY04 : HME 1.7NM FM DER - 2.5NM to TT502 RWY05 : HME DER - 2.7NM to TT502 |
| DME GAP | RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 1.0NM FM DER RWY34L:DER - 0.5NM FM DER RWY04:DER - 1.7NM FM DER | |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | |

VAR8°W

CHANGE : PROC renamed. Course FM T6L21 to VAMOS.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RUTAS THREE DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY16L : Climb on HDG 158° at or above 500FT, direct to T6L21, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY04: Climb on HDG 043° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY05: Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS, to UTIBO at 6000FT, to RUTAS.

Note **RWY34L/34R/04** : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. Course FM T6L21 to VAMOS. VAR.

RWY16R

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R11 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | VAMOS | — | 207 (199.5) | -7.9 | 14.5 | — | — | — | — | RNAV1 |
| 004 | TF | UTIBO | — | 165 (157.0) | -7.9 | 16.8 | — | 6000 | — | — | RNAV1 |
| 005 | TF | RUTAS | — | 116 (108.4) | -7.9 | 40.6 | — | — | — | — | RNAV1 |

RWY16L

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L21 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | VAMOS | — | 209 (200.7) | -7.9 | 15.4 | — | — | — | — | RNAV1 |
| 004 | TF | UTIBO | — | 165 (157.0) | -7.9 | 16.8 | — | 6000 | — | — | RNAV1 |
| 005 | TF | RUTAS | — | 116 (108.4) | -7.9 | 40.6 | — | — | — | — | RNAV1 |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY34L/RWY34R

| 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 | — | — | 338 (330.0) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | VAMOS | — | 217 (209.5) | -7.9 | 17.3 | — | — | — | — | RNAV1 |
| 005 | TF | UTIBO | — | 165 (157.0) | -7.9 | 16.8 | — | 6000 | — | — | RNAV1 |
| 006 | TF | RUTAS | — | 116 (108.4) | -7.9 | 40.6 | — | — | — | — | RNAV1 |

RWY04

| 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 | — | — | 043 (034.9) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | VAMOS | — | 217 (209.5) | -7.9 | 17.3 | — | — | — | — | RNAV1 |
| 005 | TF | UTIBO | — | 165 (157.0) | -7.9 | 16.8 | — | 6000 | — | — | RNAV1 |
| 006 | TF | RUTAS | — | 116 (108.4) | -7.9 | 40.6 | — | — | — | — | RNAV1 |

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | VAMOS | — | 217 (209.5) | -7.9 | 17.3 | — | — | — | — | RNAV1 |
| 006 | TF | UTIBO | — | 165 (157.0) | -7.9 | 16.8 | — | 6000 | — | — | RNAV1 |
| 007 | TF | RUTAS | — | 116 (108.4) | -7.9 | 40.6 | — | — | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| LOCUP | 352718.8N / 1395608.5E | TT501 | 353328.7N / 1395029.9E |
| RUTAS | 344349.3N / 1404034.2E | TT502 | 353224.4N / 1395720.7E |
| T6L21 | 352639.1N / 1395222.0E | UTIBO | 345647.0N / 1395343.9E |
| T6R11 | 352552.5N / 1395137.2E | VAMOS | 351215.5N / 1394543.6E |

CHANGE : VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

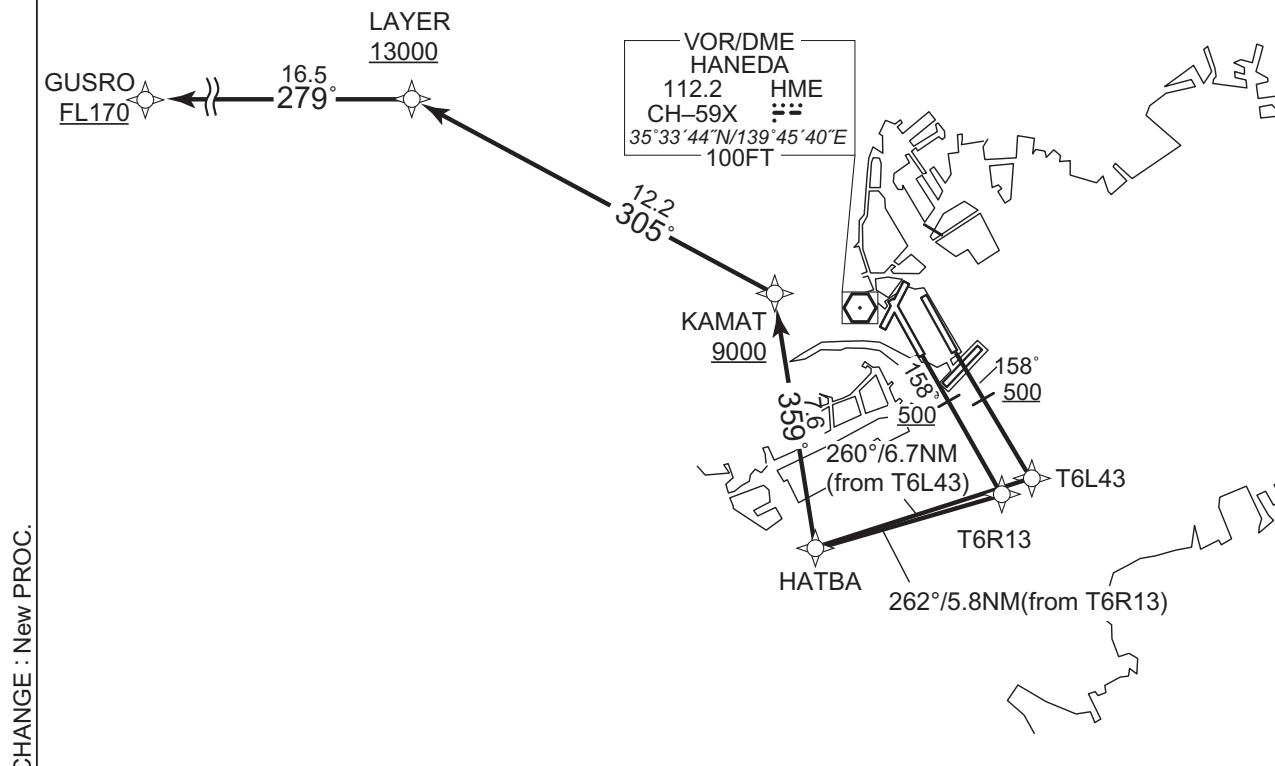
RJTT/TOKYO INTL

RNAV SID

| GUSRO ONE DEPARTURE | | RNAV SID |
|--|--|---|
| 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. 2) RADAR service required. | | RNAV1 |
| DME GAP | RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER 3.8NM to KAMAT – 1.8NM to KAMAT RWY34L : DER - 0.5NM FM DER 3.8NM to KAMAT – 1.8NM to KAMAT RWY04 : DER - 1.7NM FM DER 3.8NM to KAMAT – 1.8NM to KAMAT RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT RWY22 : DER – 1.4NM FM DER | Critical DME RWY16R : HME 1.2NM FM DER – HATBA HYD 2.8NM to HATBA - 1.6NM to HATBA PQD HATBA - 1.6NM to KAMAT RWY16L : HME 1.0NM FM DER - HATBA HYD 2.8NM to HATBA - 1.6NM to HATBA PQD HATBA - 1.6NM to KAMAT RWY34R : HME 1.0NM FM DER - 2.5NM to TT502 TT503 – 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 – TT503 4.8NM to KAMAT – 3.8NM to KAMAT RWY34L : HME 0.5NM FM DER - 2.5NM to TT502 TT503 – 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 – TT503 4.8NM to KAMAT – 3.8NM to KAMAT RWY04 : HME 1.7NM FM DER - 2.5NM to TT502 TT503 – 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 – TT503 4.8NM to KAMAT – 3.8NM to KAMAT RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | |

VAR8°W

GUSRO ONE DEPARTURE RWY16R/16L



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W

GUSRO ONE DEPARTURE RWY 34L/34R/04/05/22



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

GUSRO ONE DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to GUSRO at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, direct to T6L43, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to GUSRO at or above FL170.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to GUSRO at or above FL170.

RWY04 : Climb on HDG 043° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to GUSRO at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to GUSRO at or above FL170.

RWY22 : Climb on HDG 223° at or above 600FT, turn left direct to HOBBS, to BASSA, to UMUKI, to PIPER at or above 9000FT, to SATOL, to CURVA at or above FL150, to GUSRO at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

RWY22 : 5.0% climb gradient required up to 600FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

GUSRO ONE DEPARTURE

RWY16R

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R13 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | HATBA | — | 262 (253.8) | -7.9 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | KAMAT | — | 359 (351.1) | -7.9 | 7.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 006 | TF | GUSRO | — | 279 (271.2) | -7.9 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY16L

| 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 | — | — | 158 (150.0) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L43 | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | TF | HATBA | — | 260 (251.9) | -7.9 | 6.7 | — | — | — | — | RNAV1 |
| 004 | TF | KAMAT | — | 359 (351.1) | -7.9 | 7.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 006 | TF | GUSRO | — | 279 (271.2) | -7.9 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY34L/RWY34R

| 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 | — | — | 338 (330.0) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | TT503 | — | 289 (280.8) | -7.9 | 6.2 | — | — | — | — | RNAV1 |
| 005 | TF | KAMAT | — | 322 (314.2) | -7.9 | 7.8 | — | +9000 | — | — | RNAV1 |
| 006 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 007 | TF | GUSRO | — | 279 (271.2) | -7.9 | 16.5 | — | +FL170 | — | — | RNAV1 |

CHANGE : VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

| 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 | — | — | 043 (034.9) | -7.9 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | TT503 | — | 289 (280.8) | -7.9 | 6.2 | — | — | — | — | RNAV1 |
| 005 | TF | KAMAT | — | 322 (314.2) | -7.9 | 7.8 | — | +9000 | — | — | RNAV1 |
| 006 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 007 | TF | GUSRO | — | 279 (271.2) | -7.9 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY05

| 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 | — | — | 050 (042.4) | -7.9 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.9 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.9 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.9 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TT503 | — | 289 (280.8) | -7.9 | 6.2 | — | — | — | — | RNAV1 |
| 006 | TF | KAMAT | — | 322 (314.2) | -7.9 | 7.8 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 305 (297.1) | -7.9 | 12.2 | — | +13000 | — | — | RNAV1 |
| 008 | TF | GUSRO | — | 279 (271.2) | -7.9 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY22

| 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 | — | — | 223 (214.9) | -7.9 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | HOBBS | — | — | -7.9 | — | L | — | — | — | RNAV1 |
| 003 | TF | BASSA | — | 188 (179.9) | -7.9 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | UMUKI | — | 172 (163.9) | -7.9 | 9.2 | — | — | — | — | RNAV1 |
| 005 | TF | PIPER | — | 235 (227.4) | -7.9 | 3.5 | — | +9000 | — | — | RNAV1 |
| 006 | TF | SATOL | — | 235 (227.4) | -7.9 | 5.5 | — | — | — | — | RNAV1 |
| 007 | TF | CURVA | — | 300 (292.2) | -7.9 | 8.2 | — | +FL150 | — | — | RNAV1 |
| 008 | TF | GUSRO | — | 336 (328.3) | -7.9 | 35.8 | — | +FL170 | — | — | RNAV1 |

CHANGE : VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| BASSA | 352108.8N / 1394542.2E | PIPER | 350958.3N / 1394542.0E |
| CURVA | 350919.0N / 1393124.4E | SATOL | 350613.3N / 1394043.4E |
| GUSRO | 353944.8N / 1390813.1E | T6L43 | 352828.4N / 1395104.6E |
| HATBA | 352623.4N / 1394315.9E | T6R13 | 352800.8N / 1395006.4E |
| HOBBS | 352653.9N / 1394541.3E | TT501 | 353328.7N / 1395029.9E |
| KAMAT | 353353.6N / 1394148.9E | TT502 | 353224.4N / 1395720.7E |
| LAYER | 353925.4N / 1392829.5E | TT503 | 352828.0N / 1394840.4E |
| LOCUP | 352718.8N / 1395608.5E | UMUKI | 351219.1N / 1394849.2E |

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

STAR

SINGO ARRIVAL

From over STONE, via HME R036 to HME 22.2DME, via HME 22.2DME clockwise ARC to SINGO.

Cross STONE at 11000FT, cross HME R036/28.0DME at or above 8000FT.

DOYLE ARRIVAL

From over STONE, via HME R036 to HME 22.2DME, via HME 22.2DME clockwise ARC to intercept and proceed via ITL LOC course to DOYLE.

Cross STONE at 11000FT, cross HME R036/28.0DME at or above 8000FT.

ADDUM ARRIVAL

From over ADDUM, via HME R157 to HME 25.0DME, turn right, via IHA LOC course to ARLON.

Cross ADDUM at 10000FT.

BONUS ARRIVAL

From over ADDUM, via HME R157 to HME 22.2DME, via HME 22.2DME counterclockwise ARC to intercept and proceed via IKL LOC course to BONUS.

Cross ADDUM at 10000FT.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

STAR

VAR 8°W

STONE
D49.3 HME
11000
250KIAS

MHA 11000 / MAX 250KIAS
D57.0 HME

036°
216°
R036°
216°
STONE
D49.3 HME
HANEDA
VOR/DME
(HME)

D28.0 HME
8000

D22.2 HME ARC

SINGO ARRIVAL

DOYLE ARRIVAL

VOR/DME
HANEDA
112.2 HME
CH-59X
35°33'44"N 139°45'40"E
100FT

HME R036°
LOC Course to RWY22(LDA)
D14.7 IKL
BONUS
R089
277°
R096
277°
LOC Course to RWY23(LDA)

DOYLE
D16.5 ITL

D22.2 HME ARC

BONUS ARRIVAL

ARLON
D19.6 IHA
D25.0 HME
R147°
33°
SINGO
D20.3 ITC

ADDUM ARRIVAL

HANEDA
VOR/DME
(HME)

ADDUM
D46.6 HME
D55.0 HME

MHA 5000 / MAX 250KIAS

ADDUM
D46.6 HME
10000
230KIAS

CHANGE : VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1A ARRIVAL

From XAC, to ANZAC at 13000FT, to TT450, to TT451, to TT452, to TT453, to WANDA at 13000FT, to WEDGE at 8000FT, to ARLON.

| | |
|-----------------------|---|
| 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 | XAC | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | ANZAC | — | 069 (060.8) | -7.9 | 15.9 | — | 13000 | 230 | — | RNAV1 |
| 003 | TF | TT450 | — | 069 (061.0) | -7.9 | 5.0 | — | — | — | — | RNAV1 |
| 004 | TF | TT451 | — | 115 (106.9) | -7.9 | 9.0 | — | — | — | — | RNAV1 |
| 005 | TF | TT452 | — | 090 (082.2) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 006 | TF | TT453 | — | 069 (060.7) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 007 | TF | WANDA | — | 044 (036.0) | -7.9 | 9.0 | — | 13000 | 230 | — | RNAV1 |
| 008 | TF | WEDGE | — | 300 (292.4) | -7.9 | 18.7 | — | 8000 | — | — | RNAV1 |
| 009 | TF | ARLON | — | 009 (001.6) | -7.9 | 6.4 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 069 (060.8) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at ANZAC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1K ARRIVAL

From XAC, to ANZAC at 13000FT, to TT450, to TT451, to TT452, to TT453, to WANDA at 13000FT, to WEDGE at 8000FT, to UMUKI at or above 6000FT, to KAIHO.

| | |
|-----------------------|---|
| 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 | XAC | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | ANZAC | - | 069 (060.8) | -7.9 | 15.9 | - | 13000 | 230 | - | RNAV1 |
| 003 | TF | TT450 | - | 069 (061.0) | -7.9 | 5.0 | - | - | - | - | RNAV1 |
| 004 | TF | TT451 | - | 115 (106.9) | -7.9 | 9.0 | - | - | - | - | RNAV1 |
| 005 | TF | TT452 | - | 090 (082.2) | -7.9 | 7.0 | - | - | - | - | RNAV1 |
| 006 | TF | TT453 | - | 069 (060.7) | -7.9 | 7.0 | - | - | - | - | RNAV1 |
| 007 | TF | WANDA | - | 044 (036.0) | -7.9 | 9.0 | - | 13000 | 230 | - | RNAV1 |
| 008 | TF | WEDGE | - | 300 (292.4) | -7.9 | 18.7 | - | 8000 | - | - | RNAV1 |
| 009 | TF | UMUKI | - | 300 (292.2) | -7.9 | 8.8 | - | +6000 | - | - | RNAV1 |
| 010 | TF | KAIHO | - | 353 (345.5) | -7.9 | 6.9 | - | - | - | - | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at ANZAC.

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 069 (060.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 2C ARRIVAL

From XAC, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM.

| | |
|-----------------------|---|
| 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 | XAC | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | CLONE | — | 096 (087.8) | -7.9 | 36.3 | — | — | — | — | RNAV1 |
| 003 | TF | TT460 | — | 069 (060.7) | -7.9 | 10.1 | — | — | — | — | RNAV1 |
| 004 | TF | TT461 | — | 044 (036.1) | -7.9 | 14.4 | — | — | — | — | RNAV1 |
| 005 | TF | CIVIC | — | 346 (337.7) | -7.9 | 8.8 | — | 7000 | 210 | — | RNAV1 |
| 006 | TF | TT462 | — | 346 (337.7) | -7.9 | 6.4 | — | — | — | — | RNAV1 |
| 007 | TF | TT463 | — | 006 (358.0) | -7.9 | 6.9 | — | — | — | — | RNAV1 |
| 008 | TF | TT464 | — | 341 (333.5) | -7.9 | 5.4 | — | — | — | — | RNAV1 |
| 009 | TF | EPSON | — | 317 (309.0) | -7.9 | 6.9 | — | 7000 | 210 | — | RNAV1 |
| 010 | TF | CREAM | — | 211 (203.6) | -7.9 | 14.1 | — | — | — | — | RNAV1 |

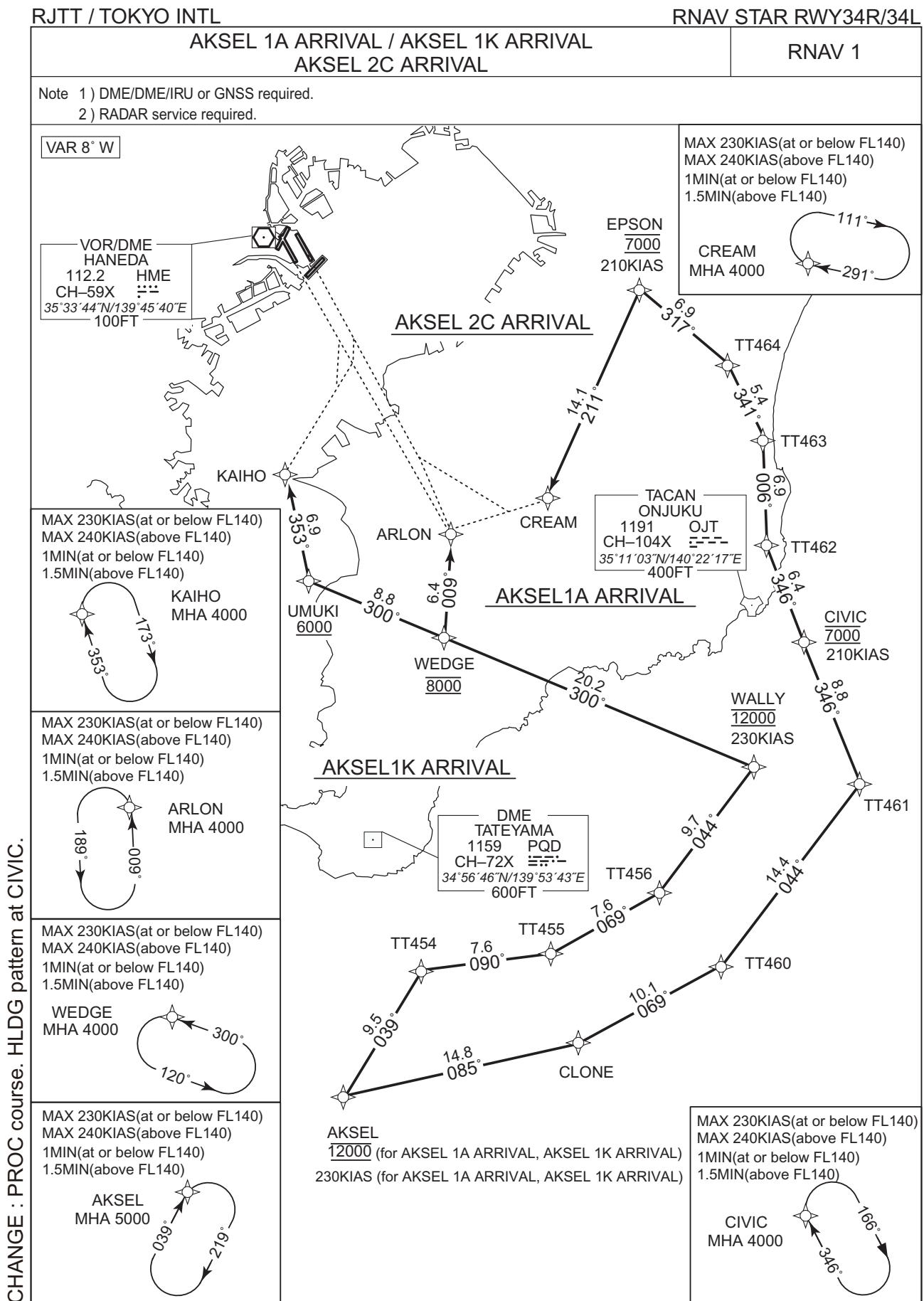
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 346 (337.7) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ANZAC | 345028.8N / 1394146.7E | TT453 | 345438.5N / 1401325.9E |
| ARLON | 351525.3N / 1395859.8E | TT460 | 344852.6N / 1401936.8E |
| CIVIC | 350840.6N / 1402552.1E | TT461 | 350030.2N / 1402957.9E |
| CLONE | 344357.8N / 1400856.0E | TT462 | 351433.3N / 1402254.8E |
| CREAM | 351743.4N / 1400612.4E | TT463 | 352125.4N / 1402237.1E |
| EPSON | 353036.2N / 1401305.9E | TT464 | 352617.6N / 1401938.6E |
| KAIHO | 351857.8N / 1394642.4E | UMUKI | 351219.1N / 1394849.2E |
| TT450 | 345254.0N / 1394706.0E | WANDA | 350155.3N / 1401954.1E |
| TT451 | 345016.8N / 1395734.3E | WEDGE | 350900.4N / 1395846.5E |
| TT452 | 345113.2N / 1400600.1E | XAC | 344244.1N / 1392450.5E |

CHANGE : PROC course. VAR. HLDG pattern at CIVIC.

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 1A ARRIVAL

From AKSEL at 12000FT, to TT454, to TT455, to TT456, to WALLY at 12000FT, to WEDGE at 8000FT, to ARLON.

| | |
|-----------------------|---|
| 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 | AKSEL | - | - | -7.9 | - | - | 12000 | 230 | - | RNAV1 |
| 002 | TF | TT454 | - | 039 (031.2) | -7.9 | 9.5 | - | - | - | - | RNAV1 |
| 003 | TF | TT455 | - | 090 (082.2) | -7.9 | 7.6 | - | - | - | - | RNAV1 |
| 004 | TF | TT456 | - | 069 (060.7) | -7.9 | 7.6 | - | - | - | - | RNAV1 |
| 005 | TF | WALLY | - | 044 (036.0) | -7.9 | 9.7 | - | 12000 | 230 | - | RNAV1 |
| 006 | TF | WEDGE | - | 300 (292.4) | -7.9 | 20.2 | - | 8000 | - | - | RNAV1 |
| 007 | TF | ARLON | - | 009 (001.6) | -7.9 | 6.4 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 1K ARRIVAL

From AKSEL at 12000FT, to TT454, to TT455, to TT456, to WALLY at 12000FT, to WEDGE at 8000FT, to UMUKI at or above 6000FT, to KAIHO.

| | |
|-----------------------|---|
| 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 | AKSEL | — | — | -7.9 | — | — | 12000 | 230 | — | RNAV1 |
| 002 | TF | TT454 | — | 039 (031.2) | -7.9 | 9.5 | — | — | — | — | RNAV1 |
| 003 | TF | TT455 | — | 090 (082.2) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 004 | TF | TT456 | — | 069 (060.7) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | WALLY | — | 044 (036.0) | -7.9 | 9.7 | — | 12000 | 230 | — | RNAV1 |
| 006 | TF | WEDGE | — | 300 (292.4) | -7.9 | 20.2 | — | 8000 | — | — | RNAV1 |
| 007 | TF | UMUKI | — | 300 (292.2) | -7.9 | 8.8 | — | +6000 | — | — | RNAV1 |
| 008 | TF | KAIHO | — | 353 (345.5) | -7.9 | 6.9 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 2C ARRIVAL

From AKSEL, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM.

| | |
|-----------------------|---|
| 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 | AKSEL | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | CLONE | - | 085 (077.0) | -7.9 | 14.8 | - | - | - | - | RNAV1 |
| 003 | TF | TT460 | - | 069 (060.7) | -7.9 | 10.1 | - | - | - | - | RNAV1 |
| 004 | TF | TT461 | - | 044 (036.1) | -7.9 | 14.4 | - | - | - | - | RNAV1 |
| 005 | TF | CIVIC | - | 346 (337.7) | -7.9 | 8.8 | - | 7000 | 210 | - | RNAV1 |
| 006 | TF | TT462 | - | 346 (337.7) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 007 | TF | TT463 | - | 006 (358.0) | -7.9 | 6.9 | - | - | - | - | RNAV1 |
| 008 | TF | TT464 | - | 341 (333.5) | -7.9 | 5.4 | - | - | - | - | RNAV1 |
| 009 | TF | EPSON | - | 317 (309.0) | -7.9 | 6.9 | - | 7000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 211 (203.6) | -7.9 | 14.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 346 (337.7) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AKSEL | 344039.5N / 1395126.9E | TT456 | 345329.3N / 1401440.2E |
| ARLON | 351525.3N / 1395859.8E | TT460 | 344852.6N / 1401936.8E |
| CIVIC | 350840.6N / 1402552.1E | TT461 | 350030.2N / 1402957.9E |
| CLONE | 344357.8N / 1400856.0E | TT462 | 351433.3N / 1402254.8E |
| CREAM | 351743.4N / 1400612.4E | TT463 | 352125.4N / 1402237.1E |
| EPSON | 353036.2N / 1401305.9E | TT464 | 352617.6N / 1401938.6E |
| KAIHO | 351857.8N / 1394642.4E | UMUKI | 351219.1N / 1394849.2E |
| TT454 | 344844.8N / 1395725.3E | WALLY | 350120.1N / 1402138.6E |
| TT455 | 344946.2N / 1400635.3E | WEDGE | 350900.4N / 1395846.5E |

CHANGE : PROC course. VAR. HLDG pattern at CIVIC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

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

2) RADAR service required.

VAR 8° W

VOR/DME
HANEDA
112.2 HME
CH-59X
 $35^{\circ}33'44''N/139^{\circ}45'40''E$
100FT

1MIN(at or below FL140)
1.5MIN(above FL140)

CREAM
MHA 4000

ARROSA 2G ARRIVAL

111°
291°

This page contains the second half of the AROSA ZC ARRIVAL checklist. It includes a detailed diagram of the aircraft's landing gear and wheel assembly, a table for tire pressure measurements, and a section for recording the date and time of arrival.

AROSA ZC ARRIVAL

| WHEEL | PSI | MM |
|-------|------|-----|
| FRONT | 10.0 | 2.5 |
| REAR | 10.0 | 2.5 |

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

AROSA 1K ARRIVAL

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

TACAN
TATEYAMA
986 TET
CH-25X E
34°58'15"N/139°50'17"E
500FT

WALTZ
11000
230KIAS

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

WEDGE
MHA 4000

1MIN(at or below FL140)
1.5MIN(above FL140)

CREAM
MHA 4000

111°

291°

AROSA 2C ARRIVAL

EPSON
7000
210KIAS

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

AROSA 2C ARRIVAL

EPSON
7000
310KIAS

CREAM
MHA 4000

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

ARLON
MHA 4000

> TT463

6.9
TT462

1140Z
346° 6.4
CIVIC
7000

210KIAS
346°

TT461

14.4°
044°

16.4
278° 
EEY AROSA
000
KIAS

CHANGE : PROC course. HLDG pattern at CIVIC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 1A ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT457, to TT458, to TT459, to WALTZ at 11000FT, to WEDGE at 8000FT, to ARLON.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | TT457 | - | 325 (317.5) | -7.9 | 7.2 | - | - | - | - | RNAV1 |
| 004 | TF | TT458 | - | 286 (278.5) | -7.9 | 7.4 | - | - | - | - | RNAV1 |
| 005 | TF | TT459 | - | 270 (262.3) | -7.9 | 8.2 | - | - | - | - | RNAV1 |
| 006 | TF | WALTZ | - | 295 (287.0) | -7.9 | 10.4 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | WEDGE | - | 039 (030.6) | -7.9 | 21.8 | - | 8000 | - | - | RNAV1 |
| 008 | TF | ARLON | - | 009 (001.6) | -7.9 | 6.4 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 1K ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT457, to TT458, to TT459, to WALTZ at 11000FT, to WEDGE at 8000FT, to UMUKI at or above 6000FT, to KAIHO.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | TT457 | - | 325 (317.5) | -7.9 | 7.2 | - | - | - | - | RNAV1 |
| 004 | TF | TT458 | - | 286 (278.5) | -7.9 | 7.4 | - | - | - | - | RNAV1 |
| 005 | TF | TT459 | - | 270 (262.3) | -7.9 | 8.2 | - | - | - | - | RNAV1 |
| 006 | TF | WALTZ | - | 295 (287.0) | -7.9 | 10.4 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | WEDGE | - | 039 (030.6) | -7.9 | 21.8 | - | 8000 | - | - | RNAV1 |
| 008 | TF | UMUKI | - | 300 (292.2) | -7.9 | 8.8 | - | +6000 | - | - | RNAV1 |
| 009 | TF | KAIHO | - | 353 (345.5) | -7.9 | 6.9 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 2C ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | TT460 | - | 352 (344.5) | -7.9 | 7.2 | - | - | - | - | RNAV1 |
| 004 | TF | TT461 | - | 044 (036.1) | -7.9 | 14.4 | - | - | - | - | RNAV1 |
| 005 | TF | CIVIC | - | 346 (337.7) | -7.9 | 8.8 | - | 7000 | 210 | - | RNAV1 |
| 006 | TF | TT462 | - | 346 (337.7) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 007 | TF | TT463 | - | 006 (358.0) | -7.9 | 6.9 | - | - | - | - | RNAV1 |
| 008 | TF | TT464 | - | 341 (333.5) | -7.9 | 5.4 | - | - | - | - | RNAV1 |
| 009 | TF | EPSON | - | 317 (309.0) | -7.9 | 6.9 | - | 7000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 211 (203.6) | -7.9 | 14.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 346 (337.7) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ARLON | 351525.3N / 1395859.8E | TT459 | 344712.8N / 1395716.3E |
| AROSA | 344201.7N / 1404157.3E | TT460 | 344852.6N / 1401936.8E |
| AVEEY | 344155.9N / 1402158.0E | TT461 | 350030.2N / 1402957.9E |
| CIVIC | 350840.6N / 1402552.1E | TT462 | 351433.3N / 1402254.8E |
| CREAM | 351743.4N / 1400612.4E | TT463 | 352125.4N / 1402237.1E |
| EPSON | 353036.2N / 1401305.9E | TT464 | 352617.6N / 1401938.6E |
| KAIHO | 351857.8N / 1394642.4E | UMUKI | 351219.1N / 1394849.2E |
| TT457 | 344714.3N / 1401602.7E | WALTZ | 345014.4N / 1394510.7E |
| TT458 | 344819.1N / 1400710.5E | WEDGE | 350900.4N / 1395846.5E |

CHANGE : PROC course. VAR. HLDG pattern at CIVIC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2A ARRIVAL / GODIN 2K ARRIVAL
GODIN 1C ARRIVAL

RNAV 1

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

VAR 8° W

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

KAIHO
MHA 4000

NOT TO SCALE

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

ARLON
MHA 4000

NOT TO SCALE

VOR/DME
HANEDA
112.2 HME
CH-59X :::::
35°33'44"N/139°45'40"E
100FT

DME
MORIYA
1174 SND
CH-87X :::::
35°56'06"N/139°58'52"E
100FT

TACAN
SHIMOFUSA
980 SHT
CH-19X :::::
35°48'07"N/140°00'36"E
100FT

COPSE

NOT TO SCALE

GODIN

CHIPS
13000

11.8
11.7
11.7

14.3
189°
189°

9.4
186°
188°

8.0
188°
188°

TT465
TT466
TT467

TT466
TT467

TT467

TT468

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2A ARRIVAL

From GODIN, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to ANDEN, to ARLON.

| | |
|-----------------------|---|
| 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 | GODIN | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 197 (189.1) | -7.9 | 11.8 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.9 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 189 (180.8) | -7.9 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 186 (177.8) | -7.9 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 188 (179.6) | -7.9 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 137 (128.9) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.9 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.9 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | TT468 | - | 256 (248.1) | -7.9 | 6.7 | - | - | - | - | RNAV1 |
| 011 | TF | ANDEN | - | 278 (270.2) | -7.9 | 6.9 | - | - | - | - | RNAV1 |
| 012 | TF | ARLON | - | 308 (300.2) | -7.9 | 6.2 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 186 (177.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at COACH.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2K ARRIVAL

From GODIN ,to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to ANDEN, to UMUKI at or above 6000FT, to KAIHO.

| | |
|-----------------------|---|
| 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 | GODIN | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 197 (189.1) | -7.9 | 11.8 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.9 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 189 (180.8) | -7.9 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 186 (177.8) | -7.9 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 188 (179.6) | -7.9 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 137 (128.9) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.9 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.9 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | TT468 | - | 256 (248.1) | -7.9 | 6.7 | - | - | - | - | RNAV1 |
| 011 | TF | ANDEN | - | 278 (270.2) | -7.9 | 6.9 | - | - | - | - | RNAV1 |
| 012 | TF | UMUKI | - | 278 (270.2) | -7.9 | 13.7 | - | +6000 | - | - | RNAV1 |
| 013 | TF | KAIHO | - | 353 (345.5) | -7.9 | 6.9 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 186 (177.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at COACH.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 1C ARRIVAL

From GODIN ,to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM.

| | |
|-----------------------|---|
| 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 | GODIN | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 197 (189.1) | -7.9 | 11.8 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.9 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 189 (180.8) | -7.9 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 186 (177.8) | -7.9 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 188 (179.6) | -7.9 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 137 (128.9) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.9 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.9 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 291 (283.1) | -7.9 | 13.0 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 186 (177.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ANDEN | 351217.9N / 1400534.7E | GODIN | 362425.3N / 1401655.9E |
| ARLON | 351525.3N / 1395859.8E | KAIHO | 351857.8N / 1394642.4E |
| CHIPS | 361247.7N / 1401436.9E | TT465 | 352939.2N / 1401235.4E |
| COACH | 353736.0N / 1401231.5E | TT466 | 352539.0N / 1401840.1E |
| COLOR | 360116.3N / 1401219.8E | TT467 | 352110.2N / 1402124.4E |
| COPSE | 354658.8N / 1401205.4E | TT468 | 351216.4N / 1401402.6E |
| CREAM | 351743.4N / 1400612.4E | UMUKI | 351219.1N / 1394849.2E |
| EDDIE | 351447.4N / 1402140.9E | | |

CHANGE : PROC course. VAR. HLDG pattern at COACH

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

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

RNAV 1

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

2) RADAR service required.

VAR 8° W

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)

1MIN(at or below FL140)
1.5MIN(above FL140)

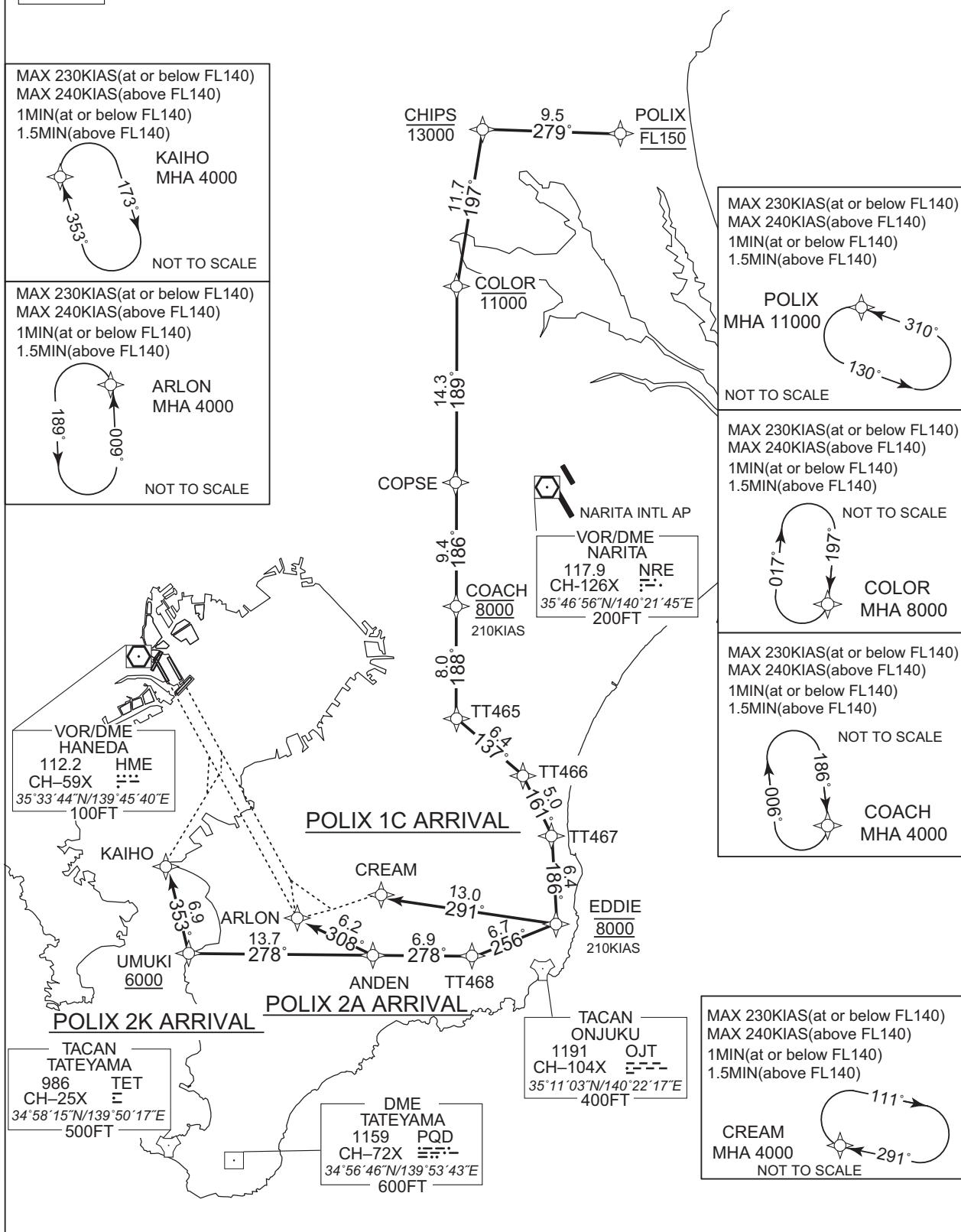
KAIHO

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)

1MIN(at or below FL140)
1.5MIN(above FL140)

ARION

CHANGE : PROC course. HLDG pattern at COACH.



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2A ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to ANDEN, to ARLON.

| | | | |
|-----------------------|---|--|--|
| 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 | POLIX | - | - | -7.9 | - | - | FL150 | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 279 (271.1) | -7.9 | 9.5 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.9 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 189 (180.8) | -7.9 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 186 (177.8) | -7.9 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 188 (179.6) | -7.9 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 137 (128.9) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.9 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.9 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | TT468 | - | 256 (248.1) | -7.9 | 6.7 | - | - | - | - | RNAV1 |
| 011 | TF | ANDEN | - | 278 (270.2) | -7.9 | 6.9 | - | - | - | - | RNAV1 |
| 012 | TF | ARLON | - | 308 (300.2) | -7.9 | 6.2 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 11000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 186 (177.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course, VAR, HLDG pattern at COACH

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2K ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to ANDEN, to UMUKI at or above 6000FT, to KAIHO.

| | |
|-----------------------|---|
| 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 | POLIX | - | - | -7.9 | - | - | FL150 | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 279 (271.1) | -7.9 | 9.5 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.9 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 189 (180.8) | -7.9 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 186 (177.8) | -7.9 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 188 (179.6) | -7.9 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 137 (128.9) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.9 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.9 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | TT468 | - | 256 (248.1) | -7.9 | 6.7 | - | - | - | - | RNAV1 |
| 011 | TF | ANDEN | - | 278 (270.2) | -7.9 | 6.9 | - | - | - | - | RNAV1 |
| 012 | TF | UMUKI | - | 278 (270.2) | -7.9 | 13.7 | - | +6000 | - | - | RNAV1 |
| 013 | TF | KAIHO | - | 353 (345.5) | -7.9 | 6.9 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 11000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 186 (177.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at COACH.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 1C ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM.

| | |
|-----------------------|---|
| 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 | POLIX | - | - | -7.9 | - | - | FL150 | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 279 (271.1) | -7.9 | 9.5 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.9 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 189 (180.8) | -7.9 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 186 (177.8) | -7.9 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 188 (179.6) | -7.9 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 137 (128.9) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.9 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.9 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 291 (283.1) | -7.9 | 13.0 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 11000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 186 (177.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ANDEN | 351217.9N / 1400534.7E | KAIHO | 351857.8N / 1394642.4E |
| ARLON | 351525.3N / 1395859.8E | POLIX | 361237.1N / 1402622.5E |
| CHIPS | 361247.7N / 1401436.9E | TT465 | 352939.2N / 1401235.4E |
| COACH | 353736.0N / 1401231.5E | TT466 | 352539.0N / 1401840.1E |
| COLOR | 360116.3N / 1401219.8E | TT467 | 352110.2N / 1402124.4E |
| COPSE | 354658.8N / 1401205.4E | TT468 | 351216.4N / 1401402.6E |
| CREAM | 351743.4N / 1400612.4E | UMUKI | 351219.1N / 1394849.2E |
| EDDIE | 351447.4N / 1402140.9E | | |

CHANGE : PROC course. VAR. HLDG pattern at COACH.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

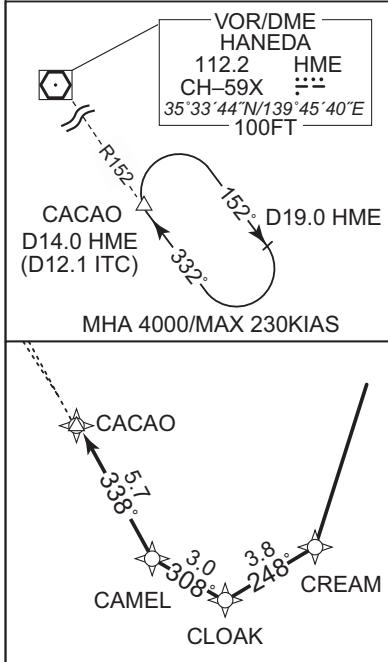
OSHIMA 2H ARRIVAL / AKSEL 2H ARRIVAL
AROSA 2H ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W



CHANGE : PROC course, HLDG pattern at CIVIC.

OSHIMA (XAC)

OSHIMA 2H ARRIVAL

36.3°
096°
AKSEL
14.8°
085°

AKSEL 2H ARRIVAL

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

OSHIMA(XAC)
MHA 5000
098°
278°

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

AKSEL
MHA 5000
039°
219°

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

CREAM
MHA 4000

111°
291°

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

CIVIC
MHA 4000

166°
346°

AROSA 2H ARRIVAL

TT460
10.1°
069°
CLONE
AVEEY
11000
230KIAS
16.4°
278°
AROSA

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

AVEEY
MHA 5000
134°
314°

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 2H ARRIVAL

From XAC, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

| | |
|-----------------------|---|
| 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 | XAC | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | CLONE | — | 096 (087.8) | -7.9 | 36.3 | — | — | — | — | RNAV1 |
| 003 | TF | TT460 | — | 069 (060.7) | -7.9 | 10.1 | — | — | — | — | RNAV1 |
| 004 | TF | TT461 | — | 044 (036.1) | -7.9 | 14.4 | — | — | — | — | RNAV1 |
| 005 | TF | CIVIC | — | 346 (337.7) | -7.9 | 8.8 | — | 7000 | 210 | — | RNAV1 |
| 006 | TF | TT462 | — | 346 (337.7) | -7.9 | 6.4 | — | — | — | — | RNAV1 |
| 007 | TF | TT463 | — | 006 (358.0) | -7.9 | 6.9 | — | — | — | — | RNAV1 |
| 008 | TF | TT464 | — | 341 (333.5) | -7.9 | 5.4 | — | — | — | — | RNAV1 |
| 009 | TF | EPSON | — | 317 (309.0) | -7.9 | 6.9 | — | 7000 | 210 | — | RNAV1 |
| 010 | TF | CREAM | — | 211 (203.6) | -7.9 | 14.1 | — | — | — | — | RNAV1 |
| 011 | TF | CLOAK | — | 248 (240.0) | -7.9 | 3.8 | — | — | — | — | RNAV1 |
| 012 | TF | CAMEL | — | 308 (300.1) | -7.9 | 3.0 | — | — | — | — | RNAV1 |
| 013 | TF | CACAO | — | 338 (330.1) | -7.9 | 5.7 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 346 (337.7) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course, VAR, HLDG pattern at CIVIC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 2H ARRIVAL

From AKSEL, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

| | |
|-----------------------|---|
| 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 | AKSEL | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | CLONE | - | 085 (077.0) | -7.9 | 14.8 | - | - | - | - | RNAV1 |
| 003 | TF | TT460 | - | 069 (060.7) | -7.9 | 10.1 | - | - | - | - | RNAV1 |
| 004 | TF | TT461 | - | 044 (036.1) | -7.9 | 14.4 | - | - | - | - | RNAV1 |
| 005 | TF | CIVIC | - | 346 (337.7) | -7.9 | 8.8 | - | 7000 | 210 | - | RNAV1 |
| 006 | TF | TT462 | - | 346 (337.7) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 007 | TF | TT463 | - | 006 (358.0) | -7.9 | 6.9 | - | - | - | - | RNAV1 |
| 008 | TF | TT464 | - | 341 (333.5) | -7.9 | 5.4 | - | - | - | - | RNAV1 |
| 009 | TF | EPSON | - | 317 (309.0) | -7.9 | 6.9 | - | 7000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 211 (203.6) | -7.9 | 14.1 | - | - | - | - | RNAV1 |
| 011 | TF | CLOAK | - | 248 (240.0) | -7.9 | 3.8 | - | - | - | - | RNAV1 |
| 012 | TF | CAMEL | - | 308 (300.1) | -7.9 | 3.0 | - | - | - | - | RNAV1 |
| 013 | TF | CACAO | - | 338 (330.1) | -7.9 | 5.7 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 346 (337.7) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at CIVIC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 2H ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | TT460 | - | 352 (344.5) | -7.9 | 7.2 | - | - | - | - | RNAV1 |
| 004 | TF | TT461 | - | 044 (036.1) | -7.9 | 14.4 | - | - | - | - | RNAV1 |
| 005 | TF | CIVIC | - | 346 (337.7) | -7.9 | 8.8 | - | 7000 | 210 | - | RNAV1 |
| 006 | TF | TT462 | - | 346 (337.7) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 007 | TF | TT463 | - | 006 (358.0) | -7.9 | 6.9 | - | - | - | - | RNAV1 |
| 008 | TF | TT464 | - | 341 (333.5) | -7.9 | 5.4 | - | - | - | - | RNAV1 |
| 009 | TF | EPSON | - | 317 (309.0) | -7.9 | 6.9 | - | 7000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 211 (203.6) | -7.9 | 14.1 | - | - | - | - | RNAV1 |
| 011 | TF | CLOAK | - | 248 (240.0) | -7.9 | 3.8 | - | - | - | - | RNAV1 |
| 012 | TF | CAMEL | - | 308 (300.1) | -7.9 | 3.0 | - | - | - | - | RNAV1 |
| 013 | TF | CACAO | - | 338 (330.1) | -7.9 | 5.7 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 346 (337.7) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at CIVIC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

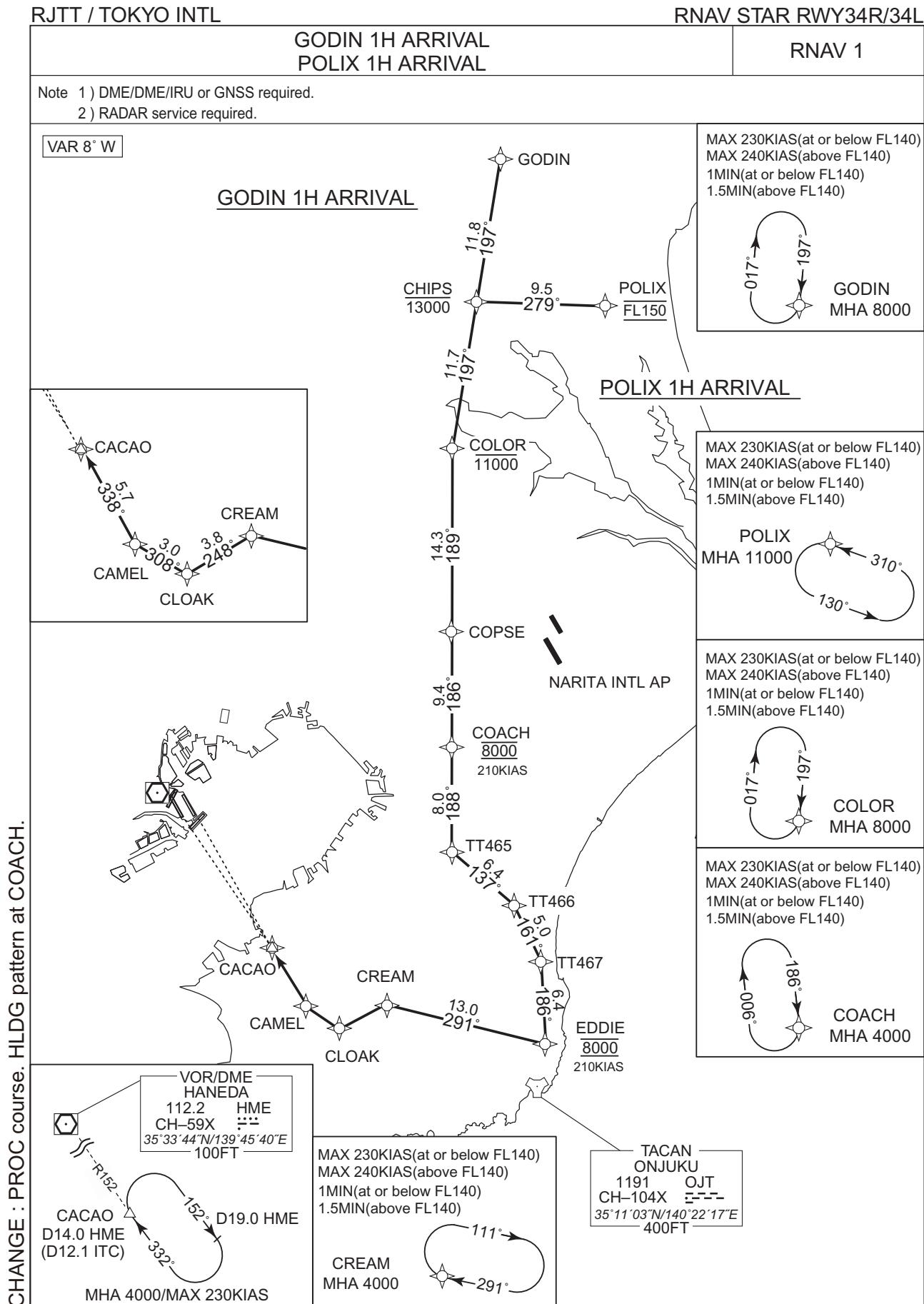
Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AKSEL | 344039.5N / 1395126.9E | CREAM | 351743.4N / 1400612.4E |
| AROSA | 344201.7N / 1404157.3E | EPSON | 353036.2N / 1401305.9E |
| AVEEY | 344155.9N / 1402158.0E | TT460 | 344852.6N / 1401936.8E |
| CACAO | 352212.8N / 1395530.1E | TT461 | 350030.2N / 1402957.9E |
| CAMEL | 351718.2N / 1395857.8E | TT462 | 351433.3N / 1402254.8E |
| CIVIC | 350840.6N / 1402552.1E | TT463 | 352125.4N / 1402237.1E |
| CLOAK | 351548.0N / 1400208.2E | TT464 | 352617.6N / 1401938.6E |
| CLONE | 344357.8N / 1400856.0E | XAC | 344244.1N / 1392450.5E |

CHANGE : AVEEY renamed

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STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 1H ARRIVAL

From GODIN, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

| | |
|-----------------------|---|
| 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 | GODIN | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 197 (189.1) | -7.9 | 11.8 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.9 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 189 (180.8) | -7.9 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 186 (177.8) | -7.9 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 188 (179.6) | -7.9 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 137 (128.9) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.9 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.9 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 291 (283.1) | -7.9 | 13.0 | - | - | - | - | RNAV1 |
| 011 | TF | CLOAK | - | 248 (240.0) | -7.9 | 3.8 | - | - | - | - | RNAV1 |
| 012 | TF | CAMEL | - | 308 (300.1) | -7.9 | 3.0 | - | - | - | - | RNAV1 |
| 013 | TF | CACAO | - | 338 (330.1) | -7.9 | 5.7 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 186 (177.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at COACH.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 1H ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

| | |
|-----------------------|---|
| 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 | POLIX | - | - | -7.9 | - | - | FL150 | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 279 (271.1) | -7.9 | 9.5 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.9 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 189 (180.8) | -7.9 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 186 (177.8) | -7.9 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 188 (179.6) | -7.9 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 137 (128.9) | -7.9 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.9 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.9 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 291 (283.1) | -7.9 | 13.0 | - | - | - | - | RNAV1 |
| 011 | TF | CLOAK | - | 248 (240.0) | -7.9 | 3.8 | - | - | - | - | RNAV1 |
| 012 | TF | CAMEL | - | 308 (300.1) | -7.9 | 3.0 | - | - | - | - | RNAV1 |
| 013 | TF | CACAO | - | 338 (330.1) | -7.9 | 5.7 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 11000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 186 (177.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at COACH.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| CACAO | 352212.8N / 1395530.1E | CREAM | 351743.4N / 1400612.4E |
| CAMEL | 351718.2N / 1395857.8E | EDDIE | 351447.4N / 1402140.9E |
| CHIPS | 361247.7N / 1401436.9E | GODIN | 362425.3N / 1401655.9E |
| CLOAK | 351548.0N / 1400208.2E | POLIX | 361237.1N / 1402622.5E |
| COACH | 353736.0N / 1401231.5E | TT465 | 352939.2N / 1401235.4E |
| COLOR | 360116.3N / 1401219.8E | TT466 | 352539.0N / 1401840.1E |
| COPSE | 354658.8N / 1401205.4E | TT467 | 352110.2N / 1402124.4E |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

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

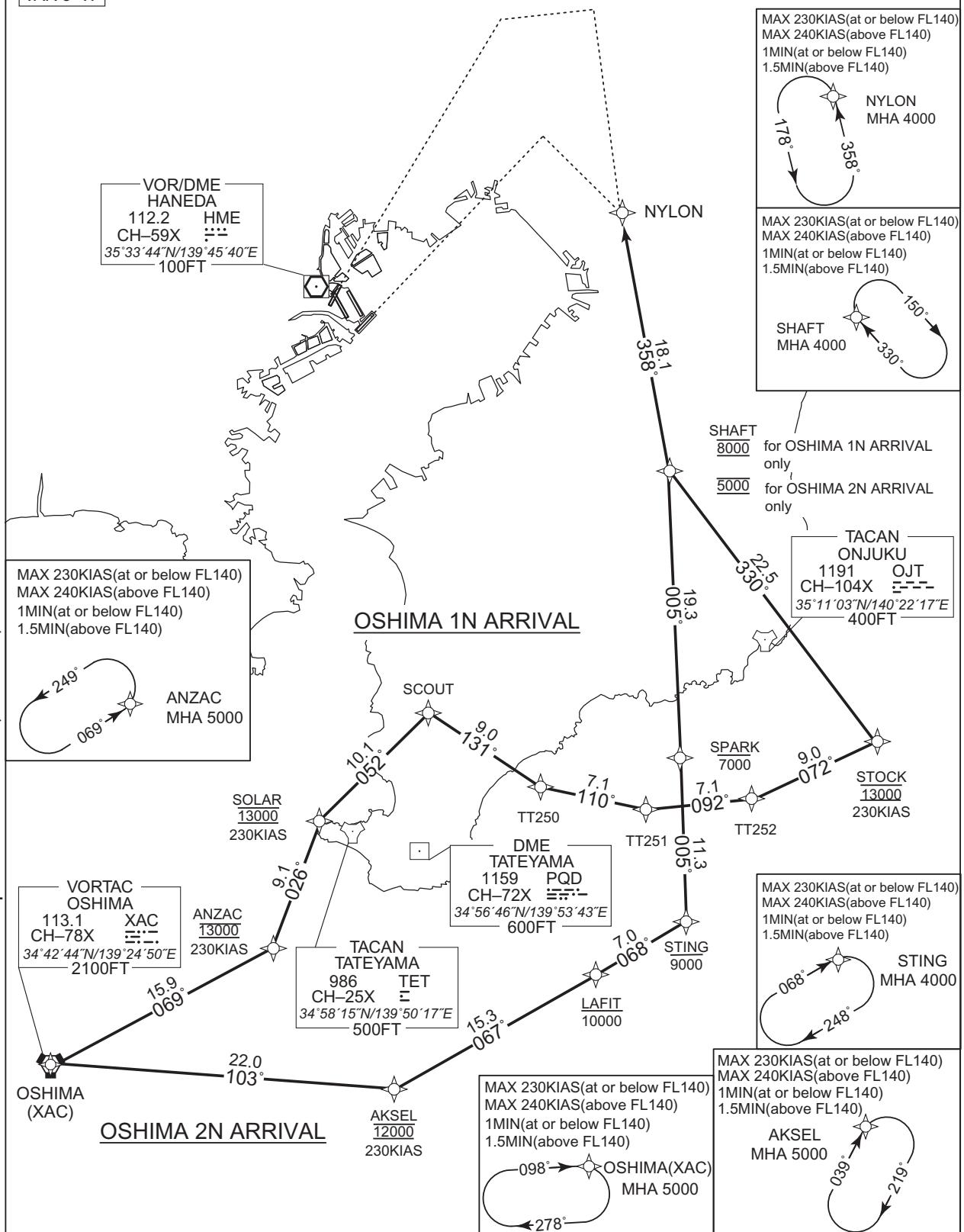
For more information about the study, please contact Dr. John P. Morrissey at (212) 305-2500 or via email at jmorrissey@nyp.edu.

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CHANGE : PROC course. HLDG pattern at NYLON, ANZAC, STING.



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 1N ARRIVAL

From XAC, to ANZAC at 13000FT, to SOLAR at 13000FT, to SCOUT, to TT250, to TT251, to TT252, to STOCK at 13000FT, to SHAFT at 8000FT, to NYLON.

| | |
|-----------------------|---|
| 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 | XAC | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | ANZAC | — | 069 (060.8) | -7.9 | 15.9 | — | 13000 | 230 | — | RNAV1 |
| 003 | TF | SOLAR | — | 026 (018.4) | -7.9 | 9.1 | — | 13000 | 230 | — | RNAV1 |
| 004 | TF | SCOUT | — | 052 (044.3) | -7.9 | 10.1 | — | — | — | — | RNAV1 |
| 005 | TF | TT250 | — | 131 (123.1) | -7.9 | 9.0 | — | — | — | — | RNAV1 |
| 006 | TF | TT251 | — | 110 (102.5) | -7.9 | 7.1 | — | — | — | — | RNAV1 |
| 007 | TF | TT252 | — | 092 (084.3) | -7.9 | 7.1 | — | — | — | — | RNAV1 |
| 008 | TF | STOCK | — | 072 (063.6) | -7.9 | 9.0 | — | 13000 | 230 | — | RNAV1 |
| 009 | TF | SHAFT | — | 330 (322.4) | -7.9 | 22.5 | — | 8000 | — | — | RNAV1 |
| 010 | TF | NYLON | — | 358 (350.0) | -7.9 | 18.1 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 069 (060.8) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 358 (350.0) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at ANZAC, NYLON.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 2N ARRIVAL

From XAC, to AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to NYLON.

| | |
|-----------------------|---|
| 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 | XAC | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AKSEL | - | 103 (095.3) | -7.9 | 22.0 | - | 12000 | 230 | - | RNAV1 |
| 003 | TF | LAFIT | - | 067 (059.5) | -7.9 | 15.3 | - | -10000 | - | - | RNAV1 |
| 004 | TF | STING | - | 068 (059.6) | -7.9 | 7.0 | - | -9000 | - | - | RNAV1 |
| 005 | TF | SPARK | - | 005 (357.4) | -7.9 | 11.3 | - | -7000 | - | - | RNAV1 |
| 006 | TF | SHAFT | - | 005 (357.4) | -7.9 | 19.3 | - | 5000 | - | - | RNAV1 |
| 007 | TF | NYLON | - | 358 (350.0) | -7.9 | 18.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 068 (059.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 358 (350.0) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

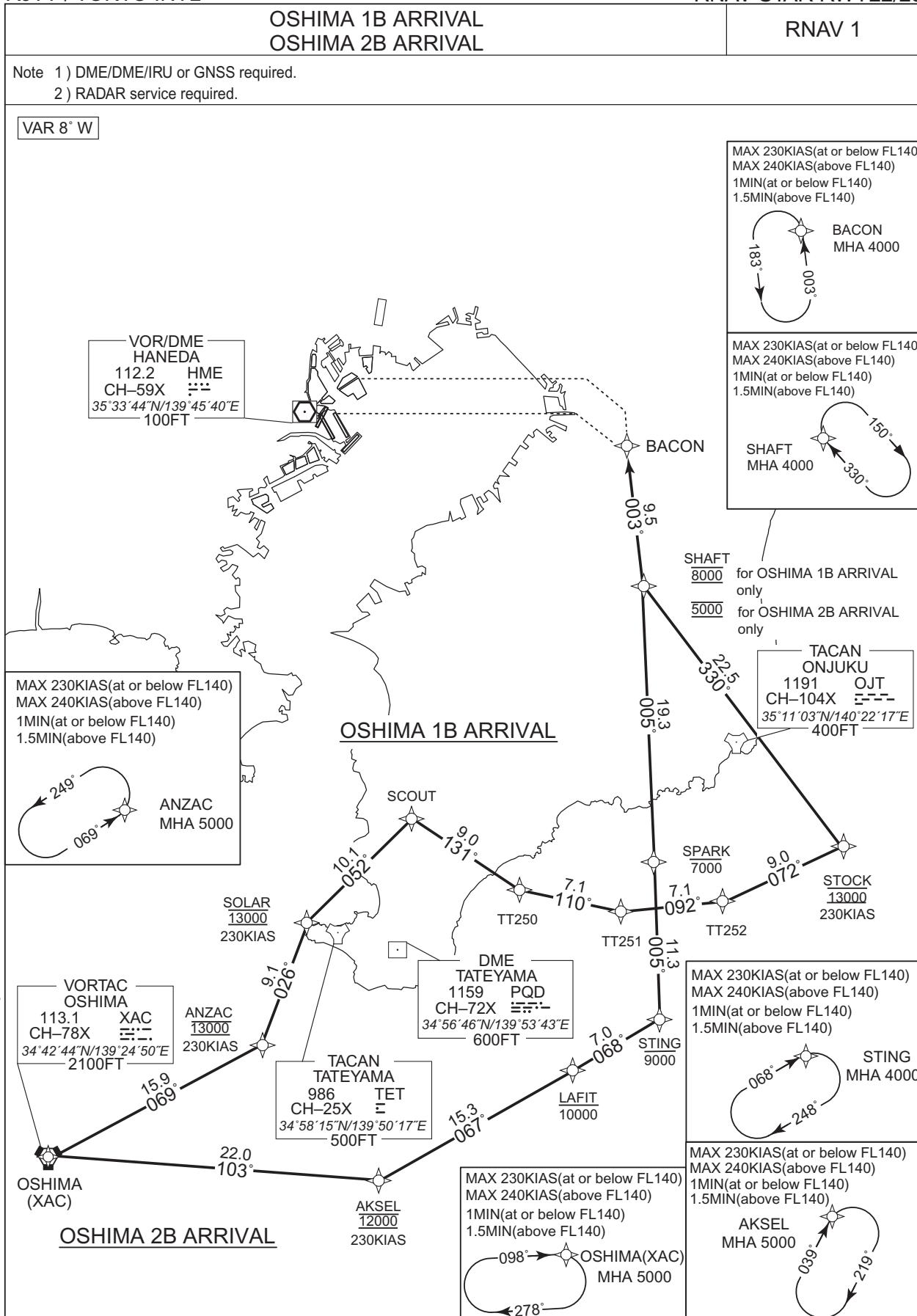
| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AKSEL | 344039.5N / 1395126.9E | SPARK | 350312.0N / 1401416.7E |
| ANZAC | 345028.8N / 1394146.7E | STOCK | 350438.7N / 1403002.9E |
| LAFIT | 344826.0N / 1400732.4E | STING | 345157.9N / 1401453.4E |
| NYLON | 354018.5N / 1400919.9E | TT250 | 350129.7N / 1400308.5E |
| SCOUT | 350624.1N / 1395356.8E | TT251 | 345957.7N / 1401136.0E |
| SHAFT | 352227.4N / 1401313.3E | TT252 | 350039.9N / 1402013.0E |
| SOLAR | 345909.2N / 1394518.5E | XAC | 344244.1N / 1392450.5E |

CHANGE : PROC course. VAR. HLDG pattern at STING, NYLON.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23



CHANGE : PROC course. HLDG pattern at ANZAC, STING.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 1B ARRIVAL

From XAC, to ANZAC at 13000FT, to SOLAR at 13000FT, to SCOUT, to TT250, to TT251, to TT252, to STOCK at 13000FT, to SHAFT at 8000FT, to BACON.

| | |
|-----------------------|---|
| 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 | XAC | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | ANZAC | - | 069 (060.8) | -7.9 | 15.9 | - | 13000 | 230 | - | RNAV1 |
| 003 | TF | SOLAR | - | 026 (018.4) | -7.9 | 9.1 | - | 13000 | 230 | - | RNAV1 |
| 004 | TF | SCOUT | - | 052 (044.3) | -7.9 | 10.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT250 | - | 131 (123.1) | -7.9 | 9.0 | - | - | - | - | RNAV1 |
| 006 | TF | TT251 | - | 110 (102.5) | -7.9 | 7.1 | - | - | - | - | RNAV1 |
| 007 | TF | TT252 | - | 092 (084.3) | -7.9 | 7.1 | - | - | - | - | RNAV1 |
| 008 | TF | STOCK | - | 072 (063.6) | -7.9 | 9.0 | - | 13000 | 230 | - | RNAV1 |
| 009 | TF | SHAFT | - | 330 (322.4) | -7.9 | 22.5 | - | 8000 | - | - | RNAV1 |
| 010 | TF | BACON | - | 003 (355.2) | -7.9 | 9.5 | - | - | - | - | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at ANZAC.

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 069 (060.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 2B ARRIVAL

From XAC, to AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to BACON.

| | |
|-----------------------|---|
| 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 | XAC | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AKSEL | - | 103 (095.3) | -7.9 | 22.0 | - | 12000 | 230 | - | RNAV1 |
| 003 | TF | LAFIT | - | 067 (059.5) | -7.9 | 15.3 | - | -10000 | - | - | RNAV1 |
| 004 | TF | STING | - | 068 (059.6) | -7.9 | 7.0 | - | -9000 | - | - | RNAV1 |
| 005 | TF | SPARK | - | 005 (357.4) | -7.9 | 11.3 | - | -7000 | - | - | RNAV1 |
| 006 | TF | SHAFT | - | 005 (357.4) | -7.9 | 19.3 | - | 5000 | - | - | RNAV1 |
| 007 | TF | BACON | - | 003 (355.2) | -7.9 | 9.5 | - | - | - | - | RNAV1 |

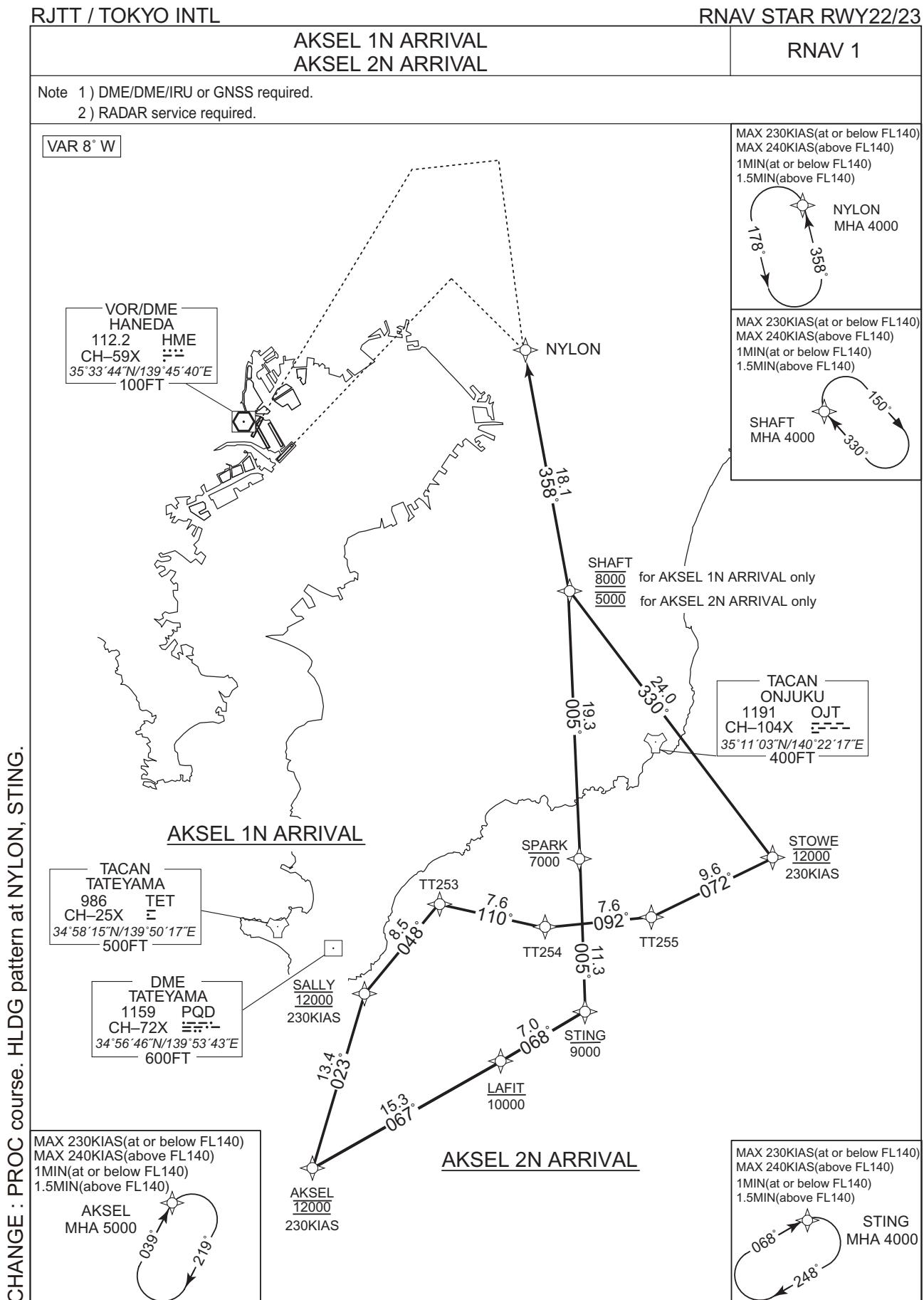
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 068 (059.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AKSEL | 344039.5N / 1395126.9E | SPARK | 350312.0N / 1401416.7E |
| ANZAC | 345028.8N / 1394146.7E | STOCK | 350438.7N / 1403002.9E |
| BACON | 353155.0N / 1401215.1E | STING | 345157.9N / 1401453.4E |
| LAFIT | 344826.0N / 1400732.4E | TT250 | 350129.7N / 1400308.5E |
| SCOUT | 350624.1N / 1395356.8E | TT251 | 345957.7N / 1401136.0E |
| SHAFT | 352227.4N / 1401313.3E | TT252 | 350039.9N / 1402013.0E |
| SOLAR | 345909.2N / 1394518.5E | XAC | 344244.1N / 1392450.5E |

CHANGE : PROC course. VAR. HLDG pattern at STING.

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1N ARRIVAL

From AKSEL at 12000FT, to SALLY at 12000FT, to TT253, to TT254, to TT255, to STOWE at 12000FT, to SHAFT at 8000FT, to NYLON.

| | |
|-----------------------|---|
| 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 | AKSEL | - | - | -7.9 | - | - | 12000 | 230 | - | RNAV1 |
| 002 | TF | SALLY | - | 023 (015.0) | -7.9 | 13.4 | - | 12000 | 230 | - | RNAV1 |
| 003 | TF | TT253 | - | 048 (040.5) | -7.9 | 8.5 | - | - | - | - | RNAV1 |
| 004 | TF | TT254 | - | 110 (102.0) | -7.9 | 7.6 | - | - | - | - | RNAV1 |
| 005 | TF | TT255 | - | 092 (084.4) | -7.9 | 7.6 | - | - | - | - | RNAV1 |
| 006 | TF | STOWE | - | 072 (063.6) | -7.9 | 9.6 | - | 12000 | 230 | - | RNAV1 |
| 007 | TF | SHAFT | - | 330 (322.4) | -7.9 | 24.0 | - | 8000 | - | - | RNAV1 |
| 008 | TF | NYLON | - | 358 (350.0) | -7.9 | 18.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 358 (350.0) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at NYLON.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 2N ARRIVAL

From AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to NYLON.

| | |
|-----------------------|---|
| 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 | AKSEL | - | - | -7.9 | - | - | 12000 | 230 | - | RNAV1 |
| 002 | TF | LAFIT | - | 067 (059.5) | -7.9 | 15.3 | - | -10000 | - | - | RNAV1 |
| 003 | TF | STING | - | 068 (059.6) | -7.9 | 7.0 | - | -9000 | - | - | RNAV1 |
| 004 | TF | SPARK | - | 005 (357.4) | -7.9 | 11.3 | - | -7000 | - | - | RNAV1 |
| 005 | TF | SHAFT | - | 005 (357.4) | -7.9 | 19.3 | - | 5000 | - | - | RNAV1 |
| 006 | TF | NYLON | - | 358 (350.0) | -7.9 | 18.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 068 (059.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 358 (350.0) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AKSEL | 344039.5N / 1395126.9E | STING | 345157.9N / 1401453.4E |
| LAFIT | 344826.0N / 1400732.4E | STOWE | 350325.9N / 1403111.4E |
| NYLON | 354018.5N / 1400919.9E | TT253 | 350001.4N / 1400224.6E |
| SALLY | 345333.9N / 1395540.1E | TT254 | 345826.5N / 1401129.4E |
| SHAFT | 352227.4N / 1401313.3E | TT255 | 345910.9N / 1402041.4E |
| SPARK | 350312.0N / 1401416.7E | | |

CHANGE : PROC course. VAR. HLDG pattern at STING, NYLON.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL
AKSEL 2B ARRIVAL

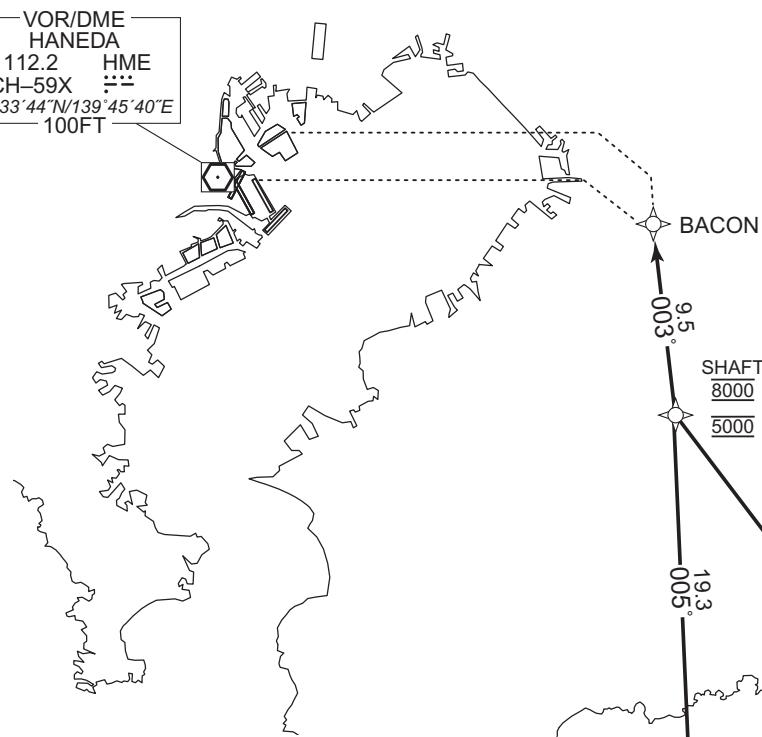
RNAV 1

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

2) RADAR service required.

VAR 8° W

VOR/DME
HANEDA
112.2 HME
CH-59X
35°33'44"N/139°45'40"E
100FT



MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

BACON
MHA 4000
183° ↗ 303°

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

SHAFT
MHA 4000
150° ↗ 330°

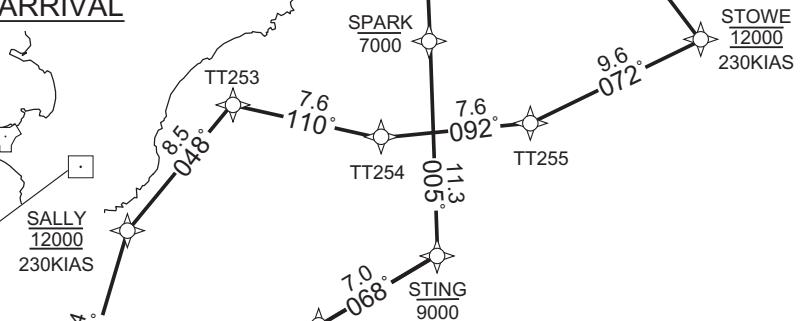
SHAFT
8000 for AKSEL 1B ARRIVAL only
5000 for AKSEL 2B ARRIVAL only

TACAN
ONJUKU
1191 OJT
CH-104X
35°11'03"N/140°22'17"E
400FT

AKSEL 1B ARRIVAL

TACAN
TATEYAMA
986 TET
CH-25X
34°58'15"N/139°50'17"E
500FT

DME
TATEYAMA
1159 PQD
CH-72X
34°56'46"N/139°53'43"E
600FT



MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

AKSEL
MHA 5000
039° ↗ 219°

AKSEL 2B ARRIVAL

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

STING
MHA 4000
068° ↗ 248°

CHANGE : PROC course, HLDG pattern at STING.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL

From AKSEL at 12000FT, to SALLY at 12000FT, to TT253, to TT254, to TT255, to STOWE at 12000FT, to SHAFT at 8000FT, to BACON.

| | |
|-----------------------|---|
| 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 | AKSEL | - | - | -7.9 | - | - | 12000 | 230 | - | RNAV1 |
| 002 | TF | SALLY | - | 023 (015.0) | -7.9 | 13.4 | - | 12000 | 230 | - | RNAV1 |
| 003 | TF | TT253 | - | 048 (040.5) | -7.9 | 8.5 | - | - | - | - | RNAV1 |
| 004 | TF | TT254 | - | 110 (102.0) | -7.9 | 7.6 | - | - | - | - | RNAV1 |
| 005 | TF | TT255 | - | 092 (084.4) | -7.9 | 7.6 | - | - | - | - | RNAV1 |
| 006 | TF | STOWE | - | 072 (063.6) | -7.9 | 9.6 | - | 12000 | 230 | - | RNAV1 |
| 007 | TF | SHAFT | - | 330 (322.4) | -7.9 | 24.0 | - | 8000 | - | - | RNAV1 |
| 008 | TF | BACON | - | 003 (355.2) | -7.9 | 9.5 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 2B ARRIVAL

From AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to BACON.

| | |
|-----------------------|---|
| 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 | AKSEL | - | - | -7.9 | - | - | 12000 | 230 | - | RNAV1 |
| 002 | TF | LAFIT | - | 067 (059.5) | -7.9 | 15.3 | - | -10000 | - | - | RNAV1 |
| 003 | TF | STING | - | 068 (059.6) | -7.9 | 7.0 | - | -9000 | - | - | RNAV1 |
| 004 | TF | SPARK | - | 005 (357.4) | -7.9 | 11.3 | - | -7000 | - | - | RNAV1 |
| 005 | TF | SHAFT | - | 005 (357.4) | -7.9 | 19.3 | - | 5000 | - | - | RNAV1 |
| 006 | TF | BACON | - | 003 (355.2) | -7.9 | 9.5 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 068 (059.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AKSEL | 344039.5N / 1395126.9E | STING | 345157.9N / 1401453.4E |
| BACON | 353155.0N / 1401215.1E | STOWE | 350325.9N / 1403111.4E |
| LAFIT | 344826.0N / 1400732.4E | TT253 | 350001.4N / 1400224.6E |
| SALLY | 345333.9N / 1395540.1E | TT254 | 345826.5N / 1401129.4E |
| SHAFT | 352227.4N / 1401313.3E | TT255 | 345910.9N / 1402041.4E |
| SPARK | 350312.0N / 1401416.7E | | |

CHANGE : PROC course. VAR. HLDG pattern at STING

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

AROSA 1N ARRIVAL
AROSA 2N ARRIVAL

RNAV STAR RWY22/23

RNAV 1

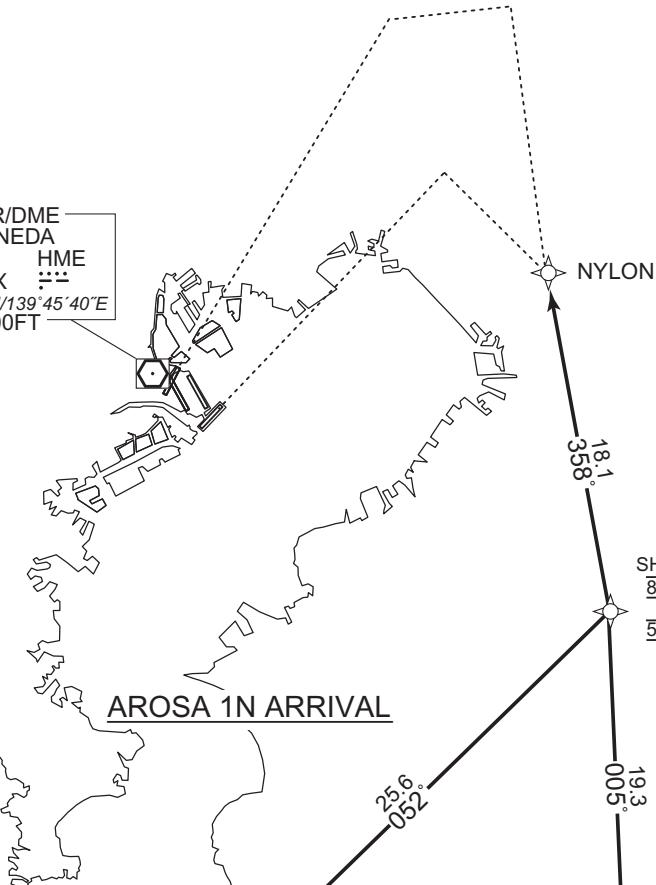
Note 1) DME/DME/IRU or GNSS required.

2) RADAR service required.

VAR 8° W

CHANGE : PROC course. HLDG pattern at NYLON, STING.

VOR/DME
HANEDA
112.2 HME
CH-59X
35°33'44"N/139°45'40"E
100FT



SHAFT
8000 for AROSA 1N ARRIVAL only
5000 for AROSA 2N ARRIVAL only

TACAN
TATEYAMA
986 TET
CH-25X
34°58'15"N/139°50'17"E
500FT

DME
TATEYAMA
1159 PQD
CH-72X
34°56'46"N/139°53'43"E
600FT

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

NYLON
MHA 4000
178° ↗ 358° ↘

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

SHAFT
MHA 4000
150° ↗ 330° ↘

TACAN
ONJUKU
1191 OJT
CH-104X
35°11'03"N/140°22'17"E
400FT

AROSA 2N ARRIVAL

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

STING
MHA 4000
068° ↗ 248° ↘

for AROSA 1N ARRIVAL only

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

AROSA 1N ARRIVAL

AROSA 2N ARRIVAL

TT256
ALDEN
11000
230KIAS

SPARK
005
11.3
7000

STING
9000

ALDEN
11000
230KIAS

AVEEY
11000
230KIAS

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1N ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SLICK at 11000FT, to SHAFT at 8000FT, to NYLON.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | ALDEN | - | 338 (330.0) | -7.9 | 11.3 | - | 11000 | 230 | - | RNAV1 |
| 004 | TF | TT256 | - | 338 (329.9) | -7.9 | 6.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT257 | - | 290 (282.4) | -7.9 | 8.1 | - | - | - | - | RNAV1 |
| 006 | TF | SLICK | - | 311 (303.1) | -7.9 | 10.2 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | SHAFT | - | 052 (044.3) | -7.9 | 25.6 | - | 8000 | - | - | RNAV1 |
| 008 | TF | NYLON | - | 358 (350.0) | -7.9 | 18.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 358 (350.0) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at NYLON.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 2N ARRIVAL

From AROSA, to AVEEY at 11000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to NYLON.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | STING | - | 338 (330.0) | -7.9 | 11.6 | - | -9000 | - | - | RNAV1 |
| 004 | TF | SPARK | - | 005 (357.4) | -7.9 | 11.3 | - | -7000 | - | - | RNAV1 |
| 005 | TF | SHAFT | - | 005 (357.4) | -7.9 | 19.3 | - | 5000 | - | - | RNAV1 |
| 006 | TF | NYLON | - | 358 (350.0) | -7.9 | 18.1 | - | - | - | - | RNAV1 |

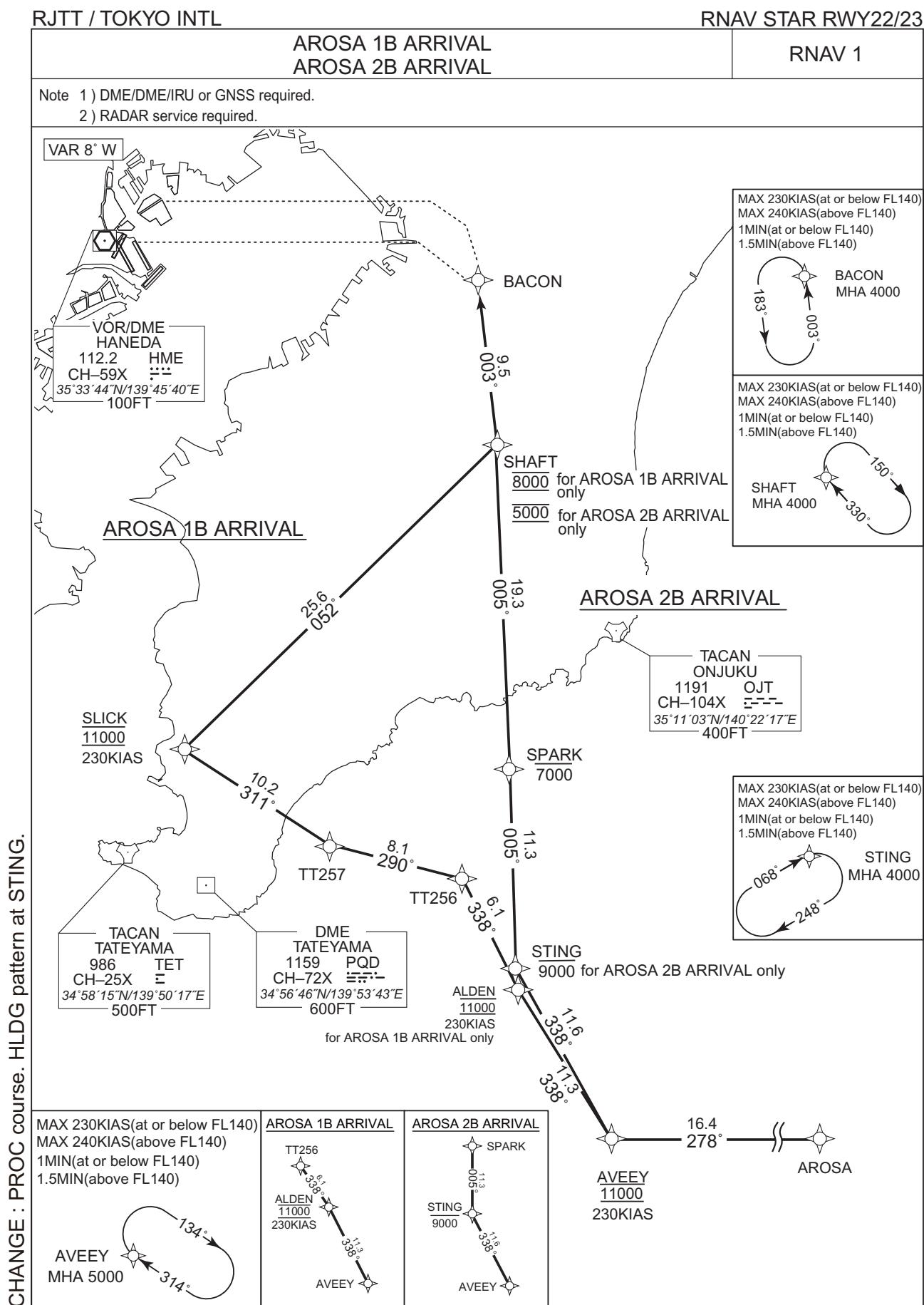
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 068 (059.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 358 (350.0) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ALDEN | 345141.1N / 1401505.3E | SLICK | 350412.7N / 1395120.0E |
| AROSA | 344201.7N / 1404157.3E | SPARK | 350312.0N / 1401416.7E |
| AVEEY | 344155.9N / 1402158.0E | STING | 345157.9N / 1401453.4E |
| NYLON | 354018.5N / 1400919.9E | TT256 | 345655.4N / 1401122.9E |
| SHAFT | 352227.4N / 1401313.3E | TT257 | 345838.5N / 1400146.6E |

CHANGE : PROC course. VAR. HLDG pattern at STING, NYLON.

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1B ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SLICK at 11000FT, to SHAFT at 8000FT, to BACON.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | ALDEN | - | 338 (330.0) | -7.9 | 11.3 | - | 11000 | 230 | - | RNAV1 |
| 004 | TF | TT256 | - | 338 (329.9) | -7.9 | 6.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT257 | - | 290 (282.4) | -7.9 | 8.1 | - | - | - | - | RNAV1 |
| 006 | TF | SLICK | - | 311 (303.1) | -7.9 | 10.2 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | SHAFT | - | 052 (044.3) | -7.9 | 25.6 | - | 8000 | - | - | RNAV1 |
| 008 | TF | BACON | - | 003 (355.2) | -7.9 | 9.5 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 2B ARRIVAL

From AROSA, to AVEEY at 11000FT, to STING at or below 9000FT , to SPARK at or below 7000FT, to SHAFT at 5000FT, to BACON.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | STING | - | 338 (330.0) | -7.9 | 11.6 | - | -9000 | - | - | RNAV1 |
| 004 | TF | SPARK | - | 005 (357.4) | -7.9 | 11.3 | - | -7000 | - | - | RNAV1 |
| 005 | TF | SHAFT | - | 005 (357.4) | -7.9 | 19.3 | - | 5000 | - | - | RNAV1 |
| 006 | TF | BACON | - | 003 (355.2) | -7.9 | 9.5 | - | - | - | - | RNAV1 |

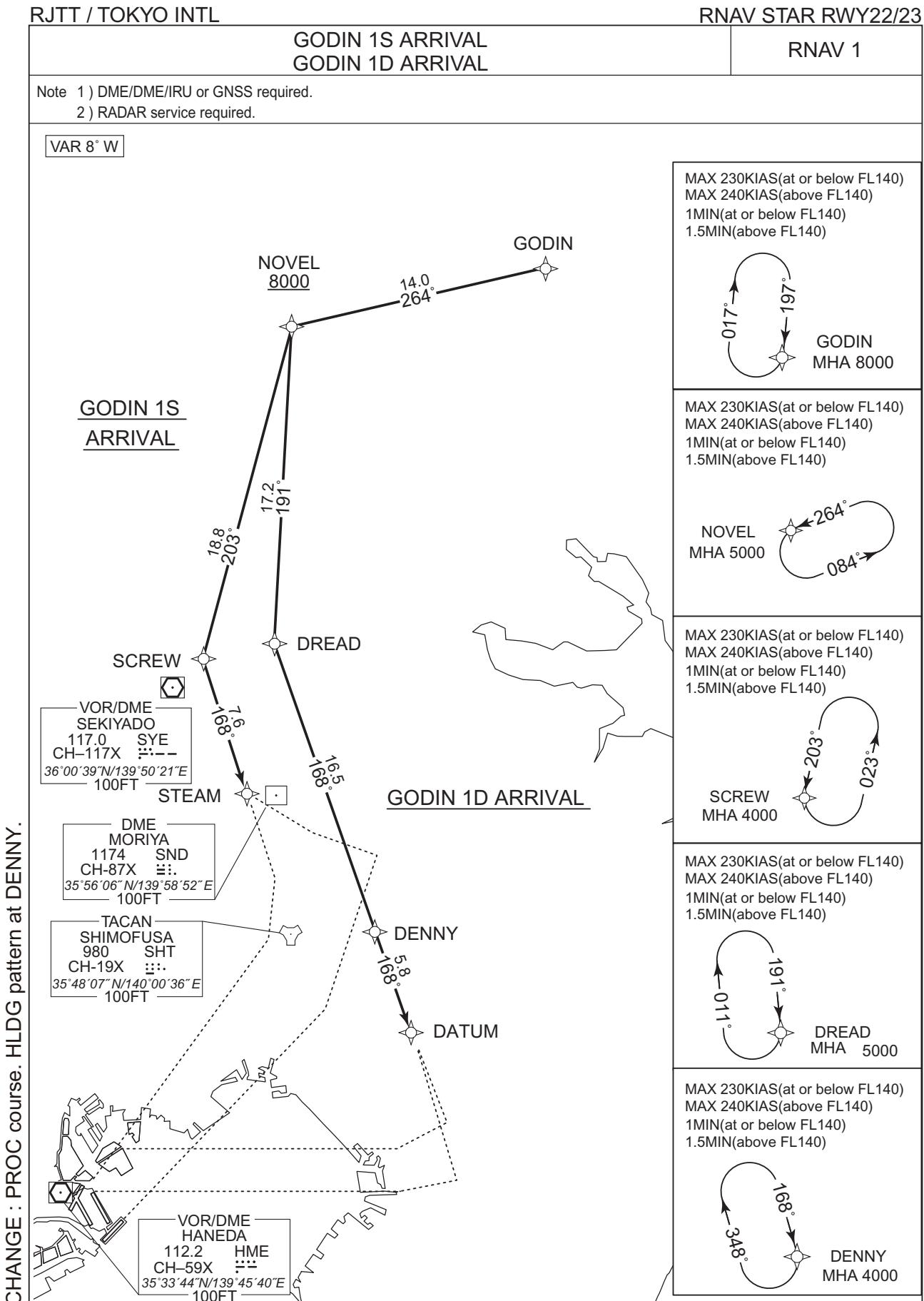
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 068 (059.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ALDEN | 345141.1N / 1401505.3E | SLICK | 350412.7N / 1395120.0E |
| AROSA | 344201.7N / 1404157.3E | SPARK | 350312.0N / 1401416.7E |
| AVEEY | 344155.9N / 1402158.0E | STING | 345157.9N / 1401453.4E |
| BACON | 353155.0N / 1401215.1E | TT256 | 345655.4N / 1401122.9E |
| SHAFT | 352227.4N / 1401313.3E | TT257 | 345838.5N / 1400146.6E |

CHANGE : PROC course, VAR, HLDG pattern at STING.

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

GODIN 1S ARRIVAL

From GODIN, to NOVEL at or above 8000FT, to SCREW, to STEAM.

| | |
|-----------------------|---|
| 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 | GODIN | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | NOVEL | - | 264 (256.4) | -7.9 | 14.0 | - | +8000 | - | - | RNAV1 |
| 003 | TF | SCREW | - | 203 (195.2) | -7.9 | 18.8 | - | - | - | - | RNAV1 |
| 004 | TF | STEAM | - | 168 (160.4) | -7.9 | 7.6 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SCREW | 203 (195.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

GODIN 1D ARRIVAL

From GODIN, to NOVEL at or above 8000FT, to DREAD, to DENNY, to DATUM.

| | |
|-----------------------|---|
| 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 | GODIN | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | NOVEL | - | 264 (256.4) | -7.9 | 14.0 | - | +8000 | - | - | RNAV1 |
| 003 | TF | DREAD | - | 191 (183.1) | -7.9 | 17.2 | - | - | - | - | RNAV1 |
| 004 | TF | DENNY | - | 168 (159.9) | -7.9 | 16.5 | - | - | - | - | RNAV1 |
| 005 | TF | DATUM | | 168 (160.0) | -7.9 | 5.8 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DREAD | 191 (183.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DENNY | 168 (159.9) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at DENNY.

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| DATUM | 354259.6N / 1400824.3E | NOVEL | 362106.9N / 1400004.9E |
| DENNY | 354828.8N / 1400556.4E | SCREW | 360301.2N / 1395400.4E |
| DREAD | 360359.2N / 1395856.9E | STEAM | 355553.3N / 1395708.4E |
| GODIN | 362425.3N / 1401655.9E | | |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

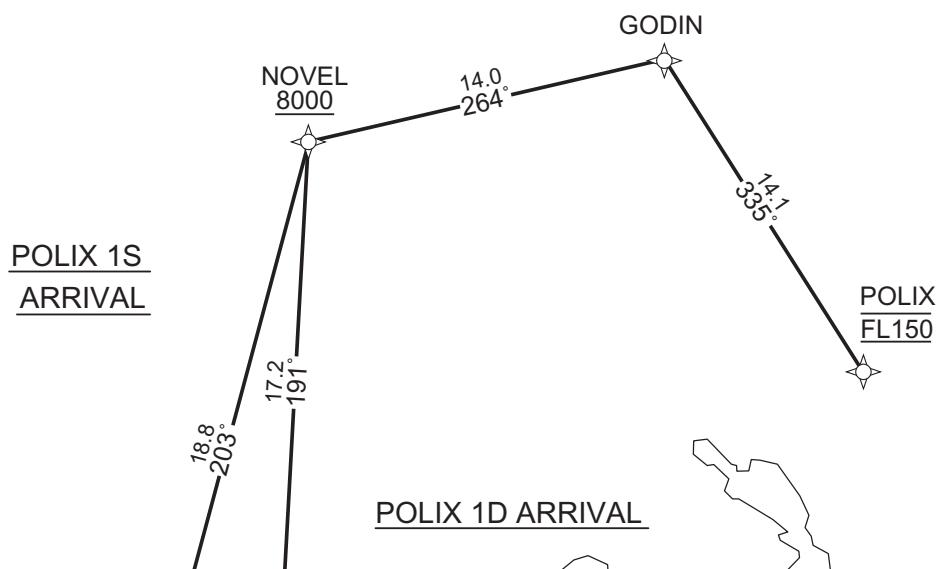
POLIX 1S ARRIVAL
POLIX 1D ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W



CHANGE : PROC course. HLDG pattern at DENNY.

| | |
|--|--|
| MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140) | MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140) |
|--|--|

POLIX MHA 11000
310°
203°
023°

| |
|--|
| MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140) |
|--|

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

DREAD MHA 5000
191°
011°

| |
|--|
| MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140) |
|--|

GODIN MHA 8000
197°
017°

| |
|--|
| MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140) |
|--|

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

NOVEL MHA 5000
264°
084°

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1S ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at or above 8000FT, to SCREW, to STEAM.

| | |
|-----------------------|---|
| 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 | POLIX | - | - | -7.9 | - | - | FL150 | - | - | RNAV1 |
| 002 | TF | GODIN | - | 335 (327.2) | -7.9 | 14.1 | - | - | - | - | RNAV1 |
| 003 | TF | NOVEL | - | 264 (256.4) | -7.9 | 14.0 | - | +8000 | - | - | RNAV1 |
| 004 | TF | SCREW | - | 203 (195.2) | -7.9 | 18.8 | - | - | - | - | RNAV1 |
| 005 | TF | STEAM | - | 168 (160.4) | -7.9 | 7.6 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 11000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SCREW | 203 (195.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1D ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at or above 8000FT, to DREAD, to DENNY, to DATUM.

| | |
|-----------------------|---|
| 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 | POLIX | - | - | -7.9 | - | - | FL150 | - | - | RNAV1 |
| 002 | TF | GODIN | - | 335 (327.2) | -7.9 | 14.1 | - | - | - | - | RNAV1 |
| 003 | TF | NOVEL | - | 264 (256.4) | -7.9 | 14.0 | - | +8000 | - | - | RNAV1 |
| 004 | TF | DREAD | - | 191 (183.1) | -7.9 | 17.2 | - | - | - | - | RNAV1 |
| 005 | TF | DENNY | - | 168 (159.9) | -7.9 | 16.5 | - | - | - | - | RNAV1 |
| 006 | TF | DATUM | - | 168 (160.0) | -7.9 | 5.8 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 11000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DREAD | 191 (183.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DENNY | 168 (159.9) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| DATUM | 354259.6N / 1400824.3E | NOVEL | 362106.9N / 1400004.9E |
| DENNY | 354828.8N / 1400556.4E | POLIX | 361237.1N / 1402622.5E |
| DREAD | 360359.2N / 1395856.9E | SCREW | 360301.2N / 1395400.4E |
| GODIN | 362425.3N / 1401655.9E | STEAM | 355553.3N / 1395708.4E |

CHANGE : PROC course. VAR. HLDG pattern at DENNY.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA L ARRIVAL

From XAC, to ANZAC, to SOLAR at 13000FT, to SCOUT, to TT250, to TT251, to TT252, to STOCK at 13000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to SACHS, to SANDY.

| | |
|-----------------------|---|
| 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 | XAC | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | ANZAC | - | 069 (060.8) | -7.9 | 15.9 | - | - | - | - | RNAV1 |
| 003 | TF | SOLAR | - | 026 (018.4) | -7.9 | 9.1 | - | 13000 | 230 | - | RNAV1 |
| 004 | TF | SCOUT | - | 052 (044.3) | -7.9 | 10.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT250 | - | 131 (123.1) | -7.9 | 9.0 | - | - | - | - | RNAV1 |
| 006 | TF | TT251 | - | 110 (102.5) | -7.9 | 7.1 | - | - | - | - | RNAV1 |
| 007 | TF | TT252 | - | 092 (084.3) | -7.9 | 7.1 | - | - | - | - | RNAV1 |
| 008 | TF | STOCK | - | 072 (063.6) | -7.9 | 9.0 | - | 13000 | 230 | - | RNAV1 |
| 009 | TF | SHAFT | - | 330 (322.4) | -7.9 | 22.5 | - | 9000 | | - | RNAV1 |
| 010 | TF | SNOKE | - | 011 (003.4) | -7.9 | 13.4 | - | - | - | - | RNAV1 |
| 011 | TF | SPINE | - | 348 (340.6) | -7.9 | 6.8 | - | - | - | - | RNAV1 |
| 012 | TF | SOPPY | - | 297 (289.2) | -7.9 | 8.4 | - | -7000 | - | - | RNAV1 |
| 013 | TF | SNARE | - | 297 (289.1) | -7.9 | 7.8 | - | 6000 | - | - | RNAV1 |
| 014 | TF | SACHS | - | 297 (289.0) | -7.9 | 3.4 | - | - | - | - | RNAV1 |
| 015 | TF | SANDY | - | 288 (280.0) | -7.9 | 3.8 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 069 (060.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SPINE | 348 (340.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at ANZAC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA R ARRIVAL

From XAC, to ANZAC, to SOLAR, to SCOUT, to SCOPE at 10000FT, to T6R70, to NUMAN at 9000FT, to NORIK, to T6R71, to T6R72, to NURSE at 9000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

| | |
|-----------------------|---|
| 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 | XAC | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | ANZAC | - | 069 (060.8) | -7.9 | 15.9 | - | - | - | - | RNAV1 |
| 003 | TF | SOLAR | - | 026 (018.4) | -7.9 | 9.1 | - | - | 230 | - | RNAV1 |
| 004 | TF | SCOUT | - | 052 (044.3) | -7.9 | 10.1 | - | - | - | - | RNAV1 |
| 005 | TF | SCOPE | - | 036 (028.5) | -7.9 | 20.0 | - | 10000 | - | - | RNAV1 |
| 006 | TF | T6R70 | - | 036 (028.6) | -7.9 | 14.0 | - | - | - | - | RNAV1 |
| 007 | TF | NUMAN | - | 360 (352.5) | -7.9 | 11.1 | - | 9000 | 210 | - | RNAV1 |
| 008 | TF | NORIK | - | 360 (352.5) | -7.9 | 7.3 | - | - | - | - | RNAV1 |
| 009 | TF | T6R71 | - | 007 (358.9) | -7.9 | 6.5 | - | - | - | - | RNAV1 |
| 010 | TF | T6R72 | - | 342 (334.4) | -7.9 | 5.0 | - | - | - | - | RNAV1 |
| 011 | TF | NURSE | - | 318 (309.8) | -7.9 | 6.5 | - | 9000 | 210 | - | RNAV1 |
| 012 | TF | NEURO | - | 213 (205.5) | -7.9 | 13.5 | - | 6000 | - | - | RNAV1 |
| 013 | TF | NIGEL | - | 252 (244.1) | -7.9 | 3.1 | - | 6000 | - | - | RNAV1 |
| 014 | TF | NATTY | - | 252 (244.1) | -7.9 | 5.2 | - | - | - | - | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at ANZAC, NEURO.

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 069 (060.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NUMAN | 360 (352.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 291 (282.9) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ANZAC | 345028.8N / 1394146.7E | SNOKE | 353551.6N / 1401411.7E |
| NATTY | 355350.9N / 1394531.3E | SOLAR | 345909.2N / 1394518.5E |
| NEURO | 355727.6N / 1395441.3E | SOPPY | 354458.8N / 1400140.3E |
| NIGEL | 355607.5N / 1395117.8E | SPINE | 354213.5N / 1401125.8E |
| NRIK | 355428.9N / 1401054.5E | STOCK | 350438.7N / 1403002.9E |
| NUMAN | 354714.4N / 1401204.9E | T6R70 | 353614.4N / 1401351.4E |
| NURSE | 360939.3N / 1400153.3E | T6R71 | 360059.5N / 1401045.1E |
| SACHS | 354838.2N / 1394838.4E | T6R72 | 360530.2N / 1400804.3E |
| SANDY | 354917.5N / 1394402.8E | TT250 | 350129.7N / 1400308.5E |
| SCOPE | 352358.4N / 1400538.3E | TT251 | 345957.7N / 1401136.0E |
| SCOUT | 350624.1N / 1395356.8E | TT252 | 350039.9N / 1402013.0E |
| SHAFT | 352227.4N / 1401313.3E | XAC | 344244.1N / 1392450.5E |
| SNARE | 354731.1N / 1395238.1E | | |

CHANGE : ACCORN, T6L60 abolished. ANZAC, SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL L ARRIVAL
AKSEL R ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

NUMAN
MHA 4000

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

SNARE
MHA 4000

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

SPINE
MHA 4000

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

NEURO
MHA 4000

VOR/DME HANEDA
112.2 HME
CH-59X
35°33'44"N/139°45'40"E
100FT

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

SHAFT
MHA 4000

CHANGE : PROC course. HLDG pattern at NEURO.

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

AKSEL
MHA 5000

| | |
|-----------------|---|
| AKSEL L ARRIVAL | SPINE 348° SNOKE 011° SHAFT 9000 |
| AKSEL R ARRIVAL | STOWE 12000 230KIAS SHAFT 9000 |
| AKSEL L ARRIVAL | NUMAN 9000 210KIAS 360° T6R70 140° SCOPE 10000 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL L ARRIVAL

From AKSEL, to SALLY at 12000FT, to TT253, to TT254, to TT255, to STOWE at 12000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to SACHS, to SANDY.

| | | | |
|-----------------------|---|--|--|
| 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 | AKSEL | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | SALLY | — | 023 (015.0) | -7.9 | 13.4 | — | 12000 | 230 | — | RNAV1 |
| 003 | TF | TT253 | — | 048 (040.5) | -7.9 | 8.5 | — | — | — | — | RNAV1 |
| 004 | TF | TT254 | — | 110 (102.0) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | TT255 | — | 092 (084.4) | -7.9 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | STOWE | — | 072 (063.6) | -7.9 | 9.6 | — | 12000 | 230 | — | RNAV1 |
| 007 | TF | SHAFT | — | 330 (322.4) | -7.9 | 24.0 | — | 9000 | — | — | RNAV1 |
| 008 | TF | SNOKE | — | 011 (003.4) | -7.9 | 13.4 | — | — | — | — | RNAV1 |
| 009 | TF | SPINE | — | 348 (340.6) | -7.9 | 6.8 | — | — | — | — | RNAV1 |
| 010 | TF | SOPPY | — | 297 (289.2) | -7.9 | 8.4 | — | -7000 | — | — | RNAV1 |
| 011 | TF | SNARE | — | 297 (289.1) | -7.9 | 7.8 | — | 6000 | — | — | RNAV1 |
| 012 | TF | SACHS | — | 297 (289.0) | -7.9 | 3.4 | — | — | — | — | RNAV1 |
| 013 | TF | SANDY | — | 288 (280.0) | -7.9 | 3.8 | — | — | — | — | RNAV1 |

CHANGE : PROC course. VAR.

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SPINE | 348 (340.6) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL R ARRIVAL

From AKSEL, to SALLY, to SCOUT, to SCOPE at 10000FT, to T6R70, to NUMAN at 9000FT, to NORIK, to T6R71, to T6R72, to NURSE at 9000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

| | |
|-----------------------|---|
| 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 | AKSEL | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | SALLY | — | 023 (015.0) | -7.9 | 13.4 | — | — | 230 | — | RNAV1 |
| 003 | TF | SCOUT | — | 002 (353.7) | -7.9 | 12.9 | — | — | — | — | RNAV1 |
| 004 | TF | SCOPE | — | 036 (028.5) | -7.9 | 20.0 | — | 10000 | — | — | RNAV1 |
| 005 | TF | T6R70 | — | 036 (028.6) | -7.9 | 14.0 | — | — | — | — | RNAV1 |
| 006 | TF | NUMAN | — | 360 (352.5) | -7.9 | 11.1 | — | 9000 | 210 | — | RNAV1 |
| 007 | TF | NORIK | — | 360 (352.5) | -7.9 | 7.3 | — | — | — | — | RNAV1 |
| 008 | TF | T6R71 | — | 007 (358.9) | -7.9 | 6.5 | — | — | — | — | RNAV1 |
| 009 | TF | T6R72 | — | 342 (334.4) | -7.9 | 5.0 | — | — | — | — | RNAV1 |
| 010 | TF | NURSE | — | 318 (309.8) | -7.9 | 6.5 | — | 9000 | 210 | — | RNAV1 |
| 011 | TF | NEURO | — | 213 (205.5) | -7.9 | 13.5 | — | 6000 | — | — | RNAV1 |
| 012 | TF | NIGEL | — | 252 (244.1) | -7.9 | 3.1 | — | 6000 | — | — | RNAV1 |
| 013 | TF | NATTY | — | 252 (244.1) | -7.9 | 5.2 | — | — | — | — | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at NEURO.

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NUMAN | 360 (352.5) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 291 (282.9) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AKSEL | 344039.5N / 1395126.9E | SHAFT | 352227.4N / 1401313.3E |
| NATTY | 355350.9N / 1394531.3E | SNARE | 354731.1N / 1395238.1E |
| NEURO | 355727.6N / 1395441.3E | SNOKE | 353551.6N / 1401411.7E |
| NIGEL | 355607.5N / 1395117.8E | SOPPY | 354458.8N / 1400140.3E |
| NORIK | 355428.9N / 1401054.5E | SPINE | 354213.5N / 1401125.8E |
| NUMAN | 354714.4N / 1401204.9E | STOWE | 350325.9N / 1403111.4E |
| NURSE | 360939.3N / 1400153.3E | T6R70 | 353614.4N / 1401351.4E |
| SACHS | 354838.2N / 1394838.4E | T6R71 | 360059.5N / 1401045.1E |
| SALLY | 345333.9N / 1395540.1E | T6R72 | 360530.2N / 1400804.3E |
| SANDY | 354917.5N / 1394402.8E | TT253 | 350001.4N / 1400224.6E |
| SCOPE | 352358.4N / 1400538.3E | TT254 | 345826.5N / 1401129.4E |
| SCOUT | 350624.1N / 1395356.8E | TT255 | 345910.9N / 1402041.4E |

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA L ARRIVAL
AROSA R ARRIVAL

RNAV 1

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

VAR 8° W

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

NUMAN
MHA 4000

081°
093°

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

NEURO
MHA 4000

111°
291°

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

SNARE
MHA 4000

717°
297°

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

SPINE
MHA 4000

89°
84°

AROSA L ARRIVAL

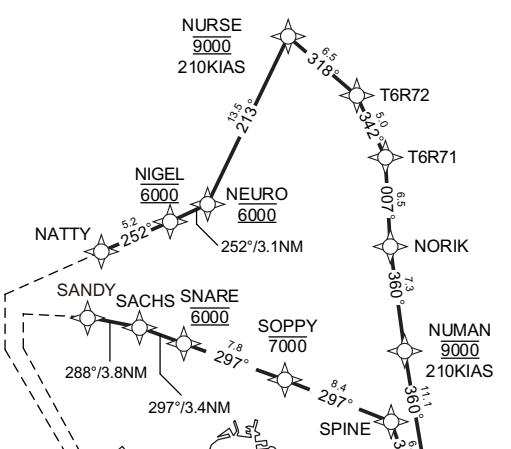
SPINE
SNOKE
SHAFT
9000

AROSA R ARRIVAL

NUMAN
9000
210KIAS
T6R72
T6R71
NORIK
SCOPE
10000

VOR/DME
HANEDA
112.2 HME
CH-59X
35°33'44"N/139°45'40"E
100FT

CHANGE : PROC course. HLDG pattern at NEURO.



MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

SHAFT
MHA 4000

150°
330°

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

AVEEY
MHA 5000

134°
314°

AROSA R ARRIVAL

AROSA L ARRIVAL

SCOUT
SLICK
11000
230KIAS
TT257
TT256
ALDEN
11000
230KIAS
AVEEY
11000
230KIAS
AROSA

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA L ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SLICK at 11000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to SACHS, to SANDY.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | ALDEN | - | 338 (330.0) | -7.9 | 11.3 | - | 11000 | 230 | - | RNAV1 |
| 004 | TF | TT256 | - | 338 (329.9) | -7.9 | 6.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT257 | - | 290 (282.4) | -7.9 | 8.1 | - | - | - | - | RNAV1 |
| 006 | TF | SLICK | - | 311 (303.1) | -7.9 | 10.2 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | SHAFT | - | 052 (044.3) | -7.9 | 25.6 | - | 9000 | - | - | RNAV1 |
| 008 | TF | SNOKE | - | 011 (003.4) | -7.9 | 13.4 | - | - | - | - | RNAV1 |
| 009 | TF | SPINE | - | 348 (340.6) | -7.9 | 6.8 | - | - | - | - | RNAV1 |
| 010 | TF | SOPPY | - | 297 (289.2) | -7.9 | 8.4 | - | -7000 | - | - | RNAV1 |
| 011 | TF | SNARE | - | 297 (289.1) | -7.9 | 7.8 | - | 6000 | - | - | RNAV1 |
| 012 | TF | SACHS | - | 297 (289.0) | -7.9 | 3.4 | - | - | - | - | RNAV1 |
| 013 | TF | SANDY | - | 288 (280.0) | -7.9 | 3.8 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SPINE | 348 (340.6) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course, VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA R ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SCOUT, to SCOPE at 10000FT, to T6R70, to NUMAN at 9000FT, to NORIK, to T6R71, to T6R72, to NURSE at 9000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | ALDEN | - | 338 (330.0) | -7.9 | 11.3 | - | 11000 | 230 | - | RNAV1 |
| 004 | TF | TT256 | - | 338 (329.9) | -7.9 | 6.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT257 | - | 290 (282.4) | -7.9 | 8.1 | - | - | - | - | RNAV1 |
| 006 | TF | SCOUT | - | 328 (320.5) | -7.9 | 10.1 | - | - | - | - | RNAV1 |
| 007 | TF | SCOPE | - | 036 (028.5) | -7.9 | 20.0 | - | 10000 | - | - | RNAV1 |
| 008 | TF | T6R70 | - | 036 (028.6) | -7.9 | 14.0 | - | - | - | - | RNAV1 |
| 009 | TF | NUMAN | - | 360 (352.5) | -7.9 | 11.1 | - | 9000 | 210 | - | RNAV1 |
| 010 | TF | NORIK | - | 360 (352.5) | -7.9 | 7.3 | - | - | - | - | RNAV1 |
| 011 | TF | T6R71 | - | 007 (358.9) | -7.9 | 6.5 | - | - | - | - | RNAV1 |
| 012 | TF | T6R72 | - | 342 (334.4) | -7.9 | 5.0 | - | - | - | - | RNAV1 |
| 013 | TF | NURSE | - | 318 (309.8) | -7.9 | 6.5 | - | 9000 | 210 | - | RNAV1 |
| 014 | TF | NEURO | - | 213 (205.5) | -7.9 | 13.5 | - | 6000 | - | - | RNAV1 |
| 015 | TF | NIGEL | - | 252 (244.1) | -7.9 | 3.1 | - | 6000 | - | - | RNAV1 |
| 016 | TF | NATTY | - | 252 (244.1) | -7.9 | 5.2 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NUMAN | 360 (352.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 291 (282.9) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at NEURO.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ALDEN | 345141.1N / 1401505.3E | SCOUT | 350624.1N / 1395356.8E |
| AROSA | 344201.7N / 1404157.3E | SHAFT | 352227.4N / 1401313.3E |
| AVEEY | 344155.9N / 1402158.0E | SLICK | 350412.7N / 1395120.0E |
| NATTY | 355350.9N / 1394531.3E | SNARE | 354731.1N / 1395238.1E |
| NEURO | 355727.6N / 1395441.3E | SNOKE | 353551.6N / 1401411.7E |
| NIGEL | 355607.5N / 1395117.8E | SOPPY | 354458.8N / 1400140.3E |
| NORIK | 355428.9N / 1401054.5E | SPINE | 354213.5N / 1401125.8E |
| NUMAN | 354714.4N / 1401204.9E | T6R70 | 353614.4N / 1401351.4E |
| NURSE | 360939.3N / 1400153.3E | T6R71 | 360059.5N / 1401045.1E |
| SACHS | 354838.2N / 1394838.4E | T6R72 | 360530.2N / 1400804.3E |
| SANDY | 354917.5N / 1394402.8E | TT256 | 345655.4N / 1401122.9E |
| SCOPE | 352358.4N / 1400538.3E | TT257 | 345838.5N / 1400146.6E |

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

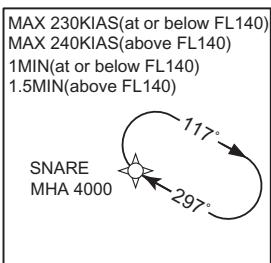
GODIN L ARRIVAL
GODIN R ARRIVAL

RNAV STAR RWY16L/16R

RNAV 1

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

VAR 8° W



MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

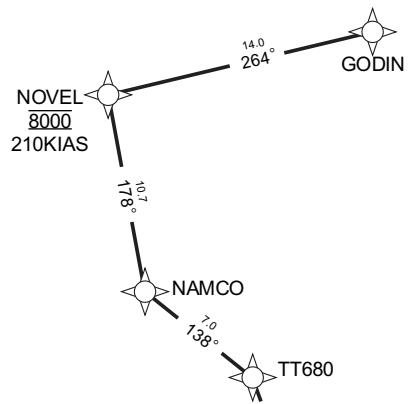
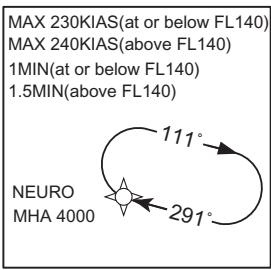
NOVEL
MHA 5000

264°
084°

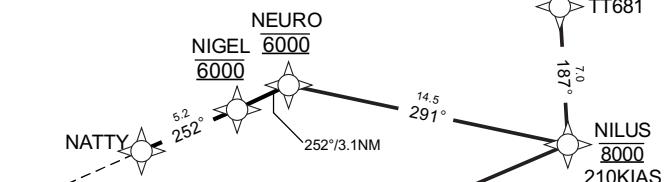
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

017°
197°

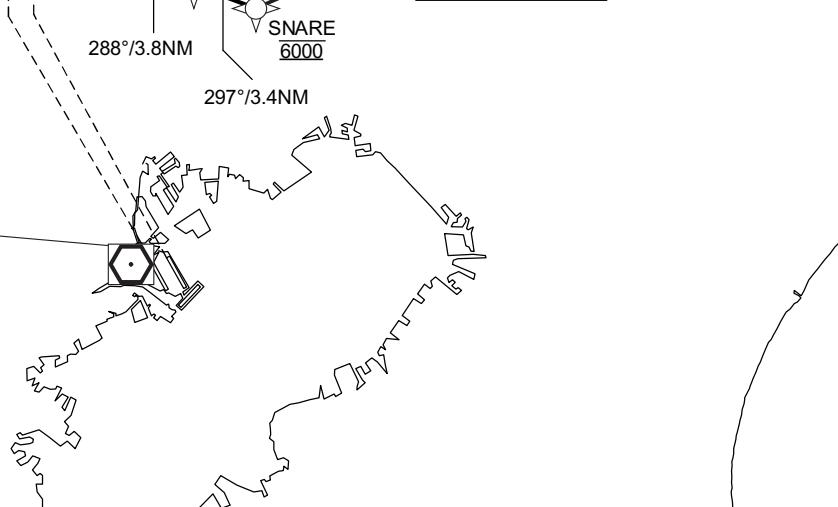
GODIN
MHA 8000



GODIN R ARRIVAL



GODIN L ARRIVAL



CHANGE : PROC course. HLDG pattern at NEURO.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

GODIN L ARRIVAL

From GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to SNARE at 6000FT, to SACHS, to SANDY.

| | |
|-----------------------|---|
| 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 | GODIN | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | NOVEL | - | 264 (256.4) | -7.9 | 14.0 | - | 8000 | 210 | - | RNAV1 |
| 003 | TF | NAMCO | - | 178 (169.8) | -7.9 | 10.7 | - | - | - | - | RNAV1 |
| 004 | TF | TT680 | - | 138 (129.7) | -7.9 | 7.0 | - | - | - | - | RNAV1 |
| 005 | TF | TT681 | - | 162 (154.3) | -7.9 | 5.4 | - | - | - | - | RNAV1 |
| 006 | TF | NILUS | - | 187 (178.9) | -7.9 | 7.0 | - | 8000 | 210 | - | RNAV1 |
| 007 | TF | SNARE | - | 255 (247.0) | -7.9 | 17.2 | - | 6000 | - | - | RNAV1 |
| 008 | TF | SACHS | - | 297 (289.0) | -7.9 | 3.4 | - | - | - | - | RNAV1 |
| 009 | TF | SANDY | - | 288 (280.0) | -7.9 | 3.8 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

GODIN R ARRIVAL

From GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

| | |
|-----------------------|---|
| 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 | GODIN | – | – | -7.9 | – | – | – | – | – | RNAV1 |
| 002 | TF | NOVEL | – | 264 (256.4) | -7.9 | 14.0 | – | 8000 | 210 | – | RNAV1 |
| 003 | TF | NAMCO | – | 178 (169.8) | -7.9 | 10.7 | – | – | – | – | RNAV1 |
| 004 | TF | TT680 | – | 138 (129.7) | -7.9 | 7.0 | – | – | – | – | RNAV1 |
| 005 | TF | TT681 | – | 162 (154.3) | -7.9 | 5.4 | – | – | – | – | RNAV1 |
| 006 | TF | NILUS | – | 187 (178.9) | -7.9 | 7.0 | – | 8000 | 210 | – | RNAV1 |
| 007 | TF | NEURO | – | 291 (282.9) | -7.9 | 14.5 | – | 6000 | – | – | RNAV1 |
| 008 | TF | NIGEL | – | 252 (244.1) | -7.9 | 3.1 | – | 6000 | – | – | RNAV1 |
| 009 | TF | NATTY | – | 252 (244.1) | -7.9 | 5.2 | – | – | – | – | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at NEURO.

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | – | R | 8000 | – | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.9 | 1.0(-14000) 1.5(+14001) | – | L | 5000 | – | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 291 (282.9) | -7.9 | 1.0(-14000) 1.5(+14001) | – | R | 4000 | – | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| GODIN | 362425.3N / 1401655.9E | NOVEL | 362106.9N / 1400004.9E |
| NAMCO | 361035.1N / 1400226.3E | SACHS | 354838.2N / 1394838.4E |
| NATTY | 355350.9N / 1394531.3E | SANDY | 354917.5N / 1394402.8E |
| NEURO | 355727.6N / 1395441.3E | SNARE | 354731.1N / 1395238.1E |
| NIGEL | 355607.5N / 1395117.8E | TT680 | 360608.2N / 1400904.0E |
| NILUS | 355415.2N / 1401208.8E | TT681 | 360113.8N / 1401158.7E |

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

POLIX L ARRIVAL
POLIX R ARRIVAL

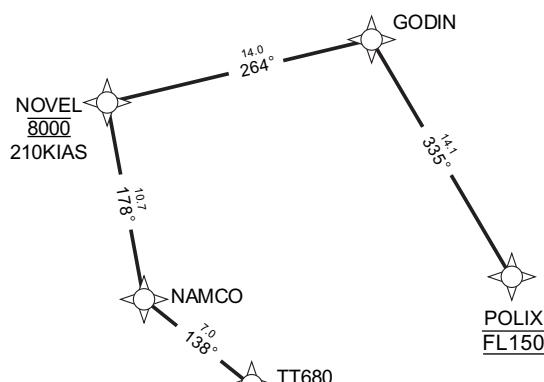
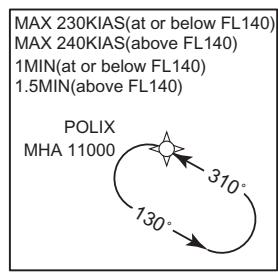
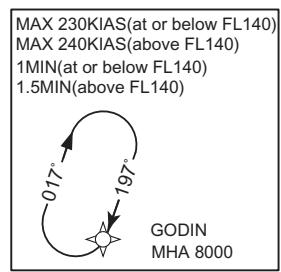
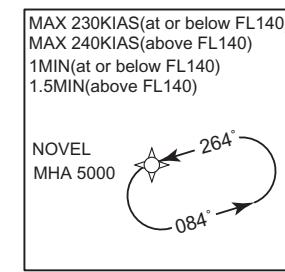
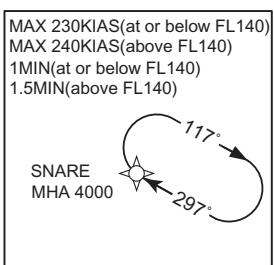
RNAV STAR RWY16L/16R

RNAV 1

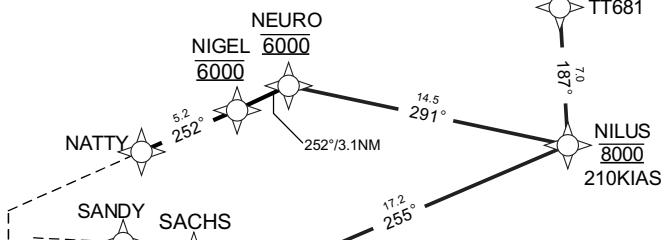
Note 1) DME/DME/IRU or GNSS required.

2) RADAR service required.

VAR 8° W



POLIX R ARRIVAL



VOR/DME HANEDA
112.2 HME
CH-59X
35°33'44"N/139°45'40"E
100FT

CHANGE : PROC course. HLDG pattern at NEURO.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

POLIX L ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to SNARE at 6000FT, to SACHS, to SANDY.

| | |
|-----------------------|---|
| 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 | POLIX | — | — | -7.9 | — | — | FL150 | — | — | RNAV1 |
| 002 | TF | GODIN | — | 335 (327.2) | -7.9 | 14.1 | — | — | — | — | RNAV1 |
| 003 | TF | NOVEL | — | 264 (256.4) | -7.9 | 14.0 | — | 8000 | 210 | — | RNAV1 |
| 004 | TF | NAMCO | — | 178 (169.8) | -7.9 | 10.7 | — | — | — | — | RNAV1 |
| 005 | TF | TT680 | — | 138 (129.7) | -7.9 | 7.0 | — | — | — | — | RNAV1 |
| 006 | TF | TT681 | — | 162 (154.3) | -7.9 | 5.4 | — | — | — | — | RNAV1 |
| 007 | TF | NILUS | — | 187 (178.9) | -7.9 | 7.0 | — | 8000 | 210 | — | RNAV1 |
| 008 | TF | SNARE | — | 255 (247.0) | -7.9 | 17.2 | — | 6000 | — | — | RNAV1 |
| 009 | TF | SACHS | — | 297 (289.0) | -7.9 | 3.4 | — | — | — | — | RNAV1 |
| 010 | TF | SANDY | — | 288 (280.0) | -7.9 | 3.8 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 11000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 8000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

POLIX R ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

| | |
|-----------------------|---|
| 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 | POLIX | – | – | -7.9 | – | – | FL150 | – | – | RNAV1 |
| 002 | TF | GODIN | – | 335 (327.2) | -7.9 | 14.1 | – | – | – | – | RNAV1 |
| 003 | TF | NOVEL | – | 264 (256.4) | -7.9 | 14.0 | – | 8000 | 210 | – | RNAV1 |
| 004 | TF | NAMCO | – | 178 (169.8) | -7.9 | 10.7 | – | – | – | – | RNAV1 |
| 005 | TF | TT680 | – | 138 (129.7) | -7.9 | 7.0 | – | – | – | – | RNAV1 |
| 006 | TF | TT681 | – | 162 (154.3) | -7.9 | 5.4 | – | – | – | – | RNAV1 |
| 007 | TF | NILUS | – | 187 (178.9) | -7.9 | 7.0 | – | 8000 | 210 | – | RNAV1 |
| 008 | TF | NEURO | – | 291 (282.9) | -7.9 | 14.5 | – | 6000 | – | – | RNAV1 |
| 009 | TF | NIGEL | – | 252 (244.1) | -7.9 | 3.1 | – | 6000 | – | – | RNAV1 |
| 010 | TF | NATTY | – | 252 (244.1) | -7.9 | 5.2 | – | – | – | – | RNAV1 |

CHANGE : PROC course. VAR. HLDG pattern at NEURO.

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.9 | 1.0(-14000) 1.5(+14001) | – | L | 11000 | – | -230(-14000) -240(+14001) | RNAV1 |
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | – | R | 8000 | – | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.9 | 1.0(-14000) 1.5(+14001) | – | L | 5000 | – | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 291 (282.9) | -7.9 | 1.0(-14000) 1.5(+14001) | – | R | 4000 | – | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

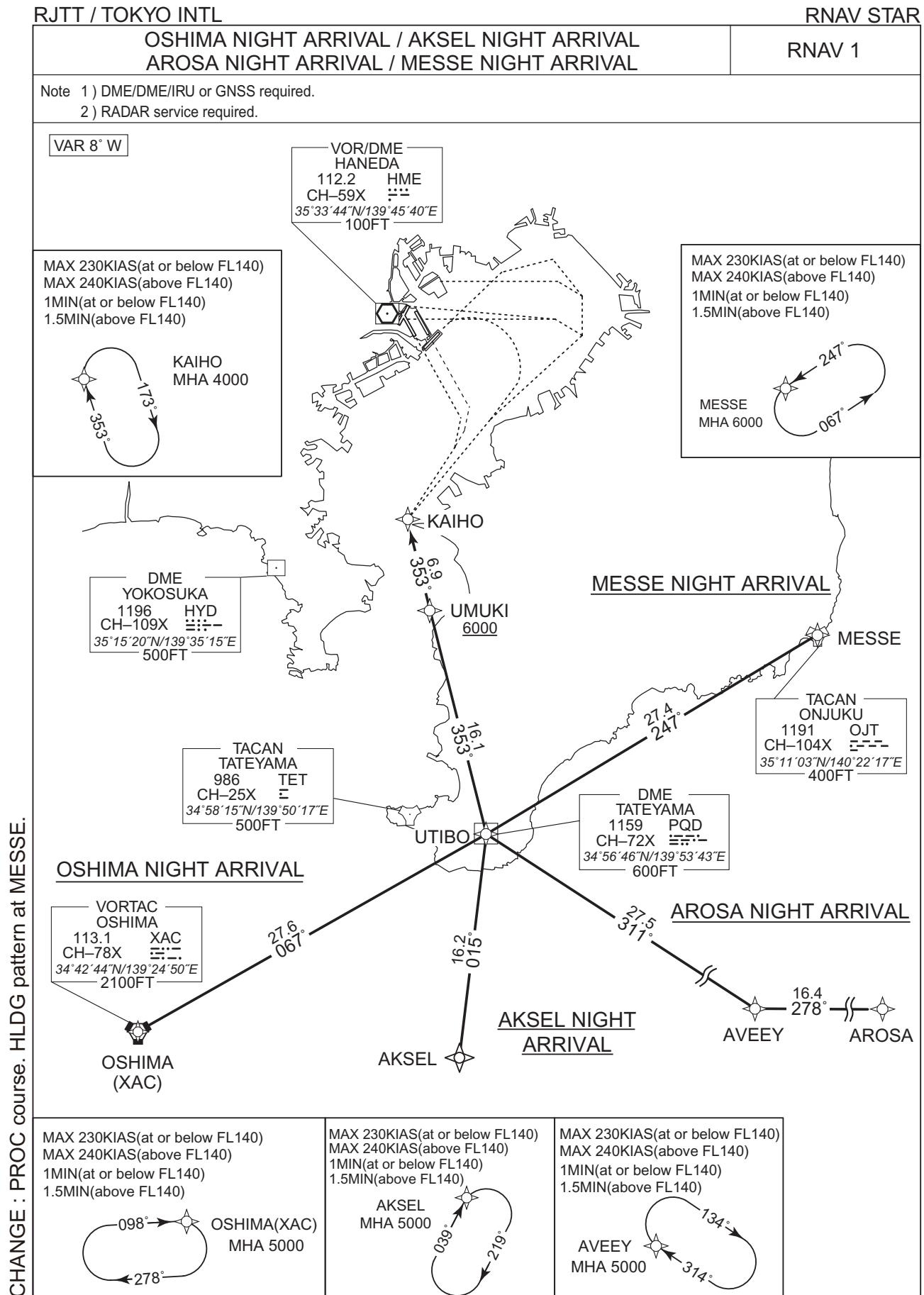
RNAV STAR RWY16L/16R

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| GODIN | 362425.3N / 1401655.9E | POLIX | 361237.1N / 1402622.5E |
| NAMCO | 361035.1N / 1400226.3E | SACHS | 354838.2N / 1394838.4E |
| NATTY | 355350.9N / 1394531.3E | SANDY | 354917.5N / 1394402.8E |
| NEURO | 355727.6N / 1395441.3E | SNARE | 354731.1N / 1395238.1E |
| NIGEL | 355607.5N / 1395117.8E | TT680 | 360608.2N / 1400904.0E |
| NILUS | 355415.2N / 1401208.8E | TT681 | 360113.8N / 1401158.7E |
| NOVEL | 362106.9N / 1400004.9E | | |

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

OSHIMA NIGHT ARRIVAL

From XAC, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

| | |
|-----------------------|---|
| 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 | XAC | — | — | -7.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | UTIBO | — | 067 (059.2) | -7.9 | 27.6 | — | — | — | — | RNAV1 |
| 003 | TF | UMUKI | — | 353 (345.5) | -7.9 | 16.1 | — | +6000 | — | — | RNAV1 |
| 004 | TF | KAIHO | — | 353 (345.5) | -7.9 | 6.9 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AKSEL NIGHT ARRIVAL

From AKSEL, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

| | |
|-----------------------|---|
| 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 | AKSEL | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | UTIBO | - | 015 (006.6) | -7.9 | 16.2 | - | - | - | - | RNAV1 |
| 003 | TF | UMUKI | - | 353 (345.5) | -7.9 | 16.1 | - | +6000 | - | - | RNAV1 |
| 004 | TF | KAIHO | - | 353 (345.5) | -7.9 | 6.9 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AROSA NIGHT ARRIVAL

From AROSA, to AVEEY, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | - | - | - | RNAV1 |
| 003 | TF | UTIBO | - | 311 (302.8) | -7.9 | 27.5 | - | - | - | - | RNAV1 |
| 004 | TF | UMUKI | - | 353 (345.5) | -7.9 | 16.1 | - | +6000 | - | - | RNAV1 |
| 005 | TF | KAIHO | - | 353 (345.5) | -7.9 | 6.9 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

MESSE NIGHT ARRIVAL

From MESSE, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

| | |
|-----------------------|---|
| 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 | MESSE | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | UTIBO | - | 247 (238.8) | -7.9 | 27.4 | - | - | - | - | RNAV1 |
| 003 | TF | UMUKI | - | 353 (345.5) | -7.9 | 16.1 | - | +6000 | - | - | RNAV1 |
| 004 | TF | KAIHO | - | 353 (345.5) | -7.9 | 6.9 | - | - | - | - | RNAV1 |

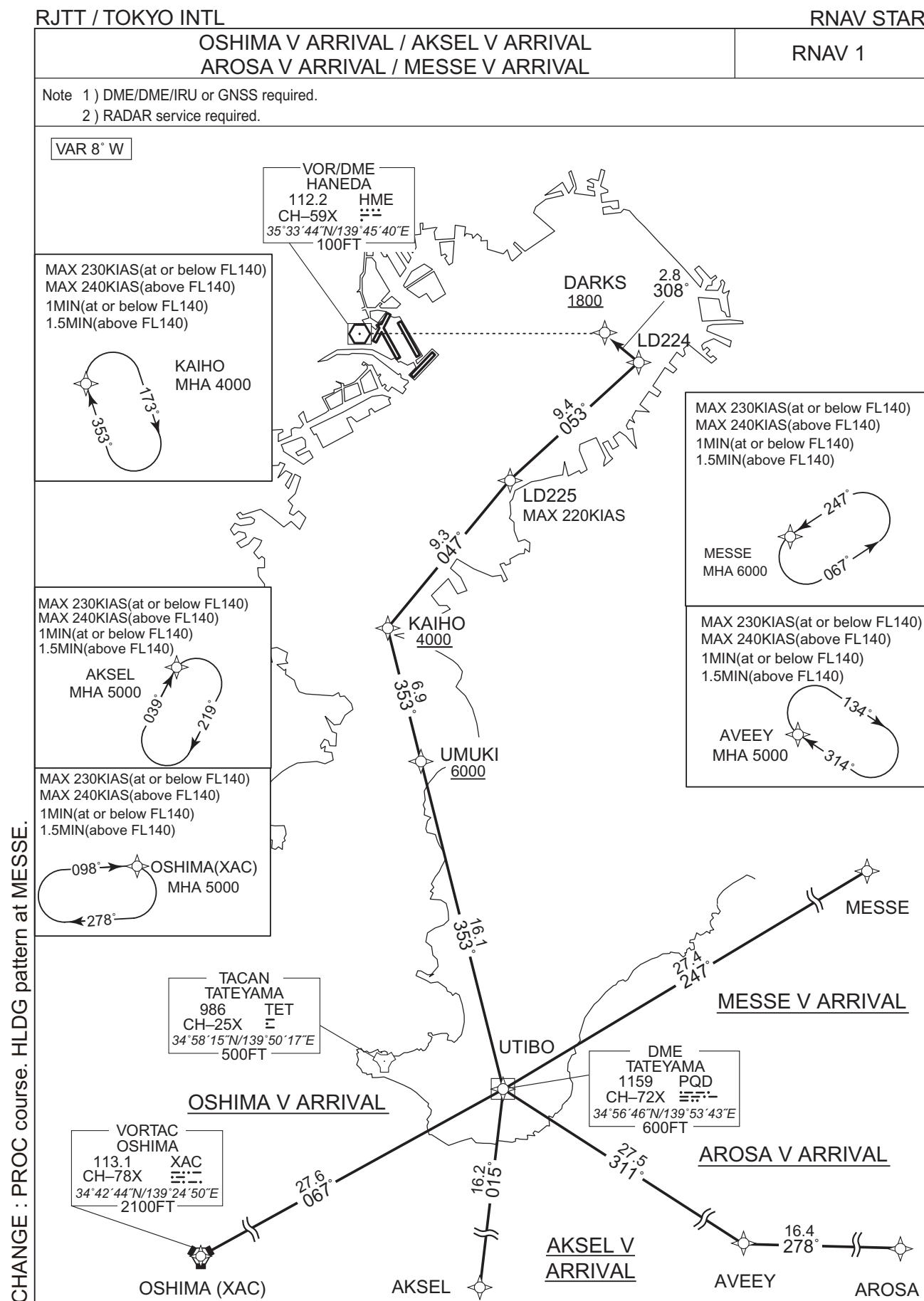
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | MESSE | 247 (238.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 6000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course, VAR, HLDG pattern at MESSE.

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AKSEL | 344039.5N / 1395126.9E | MESSE | 351100.8N / 1402214.7E |
| AROSA | 344201.7N / 1404157.3E | UMUKI | 351219.1N / 1394849.2E |
| AVEEY | 344155.9N / 1402158.0E | UTIBO | 345647.0N / 1395343.9E |
| KAIHO | 351857.8N / 1394642.4E | XAC | 344244.1N / 1392450.5E |

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

OSHIMA V ARRIVAL

From XAC, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above 1800FT.

| | |
|-----------------------|---|
| 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 | XAC | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | UTIBO | - | 067 (059.2) | -7.9 | 27.6 | - | - | - | - | RNAV1 |
| 003 | TF | UMUKI | - | 353 (345.5) | -7.9 | 16.1 | - | +6000 | - | - | RNAV1 |
| 004 | TF | KAIHO | - | 353 (345.5) | -7.9 | 6.9 | - | +4000 | - | - | RNAV1 |
| 005 | TF | LD225 | - | 047 (038.8) | -7.9 | 9.3 | - | - | -220 | - | RNAV1 |
| 006 | TF | LD224 | - | 053 (044.8) | -7.9 | 9.4 | - | - | - | - | RNAV1 |
| 007 | TF | DARKS | - | 308 (299.8) | -7.9 | 2.8 | - | +1800 | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AKSEL V ARRIVAL

From AKSEL, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above 1800FT.

| | |
|-----------------------|---|
| 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 | AKSEL | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | UTIBO | - | 015 (006.6) | -7.9 | 16.2 | - | - | - | - | RNAV1 |
| 003 | TF | UMUKI | - | 353 (345.5) | -7.9 | 16.1 | - | +6000 | - | - | RNAV1 |
| 004 | TF | KAIHO | - | 353 (345.5) | -7.9 | 6.9 | - | +4000 | - | - | RNAV1 |
| 005 | TF | LD225 | - | 047 (038.8) | -7.9 | 9.3 | - | - | -220 | - | RNAV1 |
| 006 | TF | LD224 | - | 053 (044.8) | -7.9 | 9.4 | - | - | - | - | RNAV1 |
| 007 | TF | DARKS | - | 308 (299.8) | -7.9 | 2.8 | - | +1800 | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AROSA V ARRIVAL

From AROSA, to AVEEY, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above 1800FT.

| | |
|-----------------------|---|
| 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 | AROSA | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 278 (269.8) | -7.9 | 16.4 | - | - | - | - | RNAV1 |
| 003 | TF | UTIBO | - | 311 (302.8) | -7.9 | 27.5 | - | - | - | - | RNAV1 |
| 004 | TF | UMUKI | - | 353 (345.5) | -7.9 | 16.1 | - | +6000 | - | - | RNAV1 |
| 005 | TF | KAIHO | - | 353 (345.5) | -7.9 | 6.9 | - | +4000 | - | - | RNAV1 |
| 006 | TF | LD225 | - | 047 (038.8) | -7.9 | 9.3 | - | - | -220 | - | RNAV1 |
| 007 | TF | LD224 | - | 053 (044.8) | -7.9 | 9.4 | - | - | - | - | RNAV1 |
| 008 | TF | DARKS | - | 308 (299.8) | -7.9 | 2.8 | - | +1800 | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

MESSE V ARRIVAL

From MESSE, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above 1800FT.

| | |
|-----------------------|---|
| 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 | MESSE | - | - | -7.9 | - | - | - | - | - | RNAV1 |
| 002 | TF | UTIBO | - | 247 (238.8) | -7.9 | 27.4 | - | - | - | - | RNAV1 |
| 003 | TF | UMUKI | - | 353 (345.5) | -7.9 | 16.1 | - | +6000 | - | - | RNAV1 |
| 004 | TF | KAIHO | - | 353 (345.5) | -7.9 | 6.9 | - | +4000 | - | - | RNAV1 |
| 005 | TF | LD225 | - | 047 (038.8) | -7.9 | 9.3 | - | - | -220 | - | RNAV1 |
| 006 | TF | LD224 | - | 053 (044.8) | -7.9 | 9.4 | - | - | - | - | RNAV1 |
| 007 | TF | DARKS | - | 308 (299.8) | -7.9 | 2.8 | - | +1800 | - | - | RNAV1 |

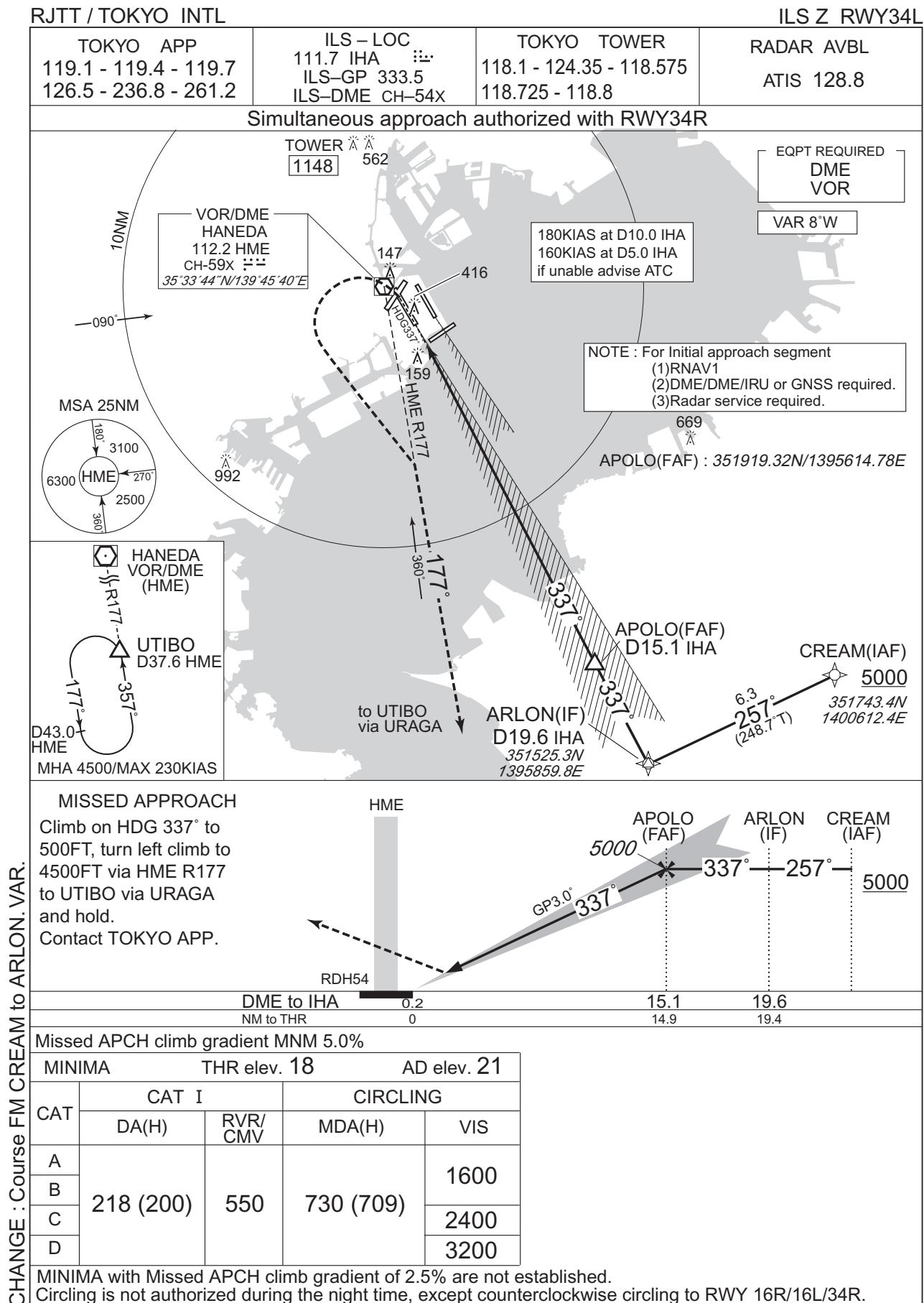
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | MESSE | 247 (238.8) | -7.9 | 1.0(-14000) 1.5(+14001) | - | L | 6000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AKSEL | 344039.5N / 1395126.9E | LD225 | 352614.1N / 1395353.4E |
| AROSA | 344201.7N / 1404157.3E | MESSE | 351100.8N / 1402214.7E |
| AVEEY | 344155.9N / 1402158.0E | UMUKI | 351219.1N / 1394849.2E |
| DARKS | 353414.8N / 1395902.9E | UTIBO | 345647.0N / 1395343.9E |
| KAIHO | 351857.8N / 1394642.4E | XAC | 344244.1N / 1392450.5E |
| LD224 | 353252.5N / 1400200.0E | | |

CHANGE : PROC course. VAR. HLDG pattern at MESSE.

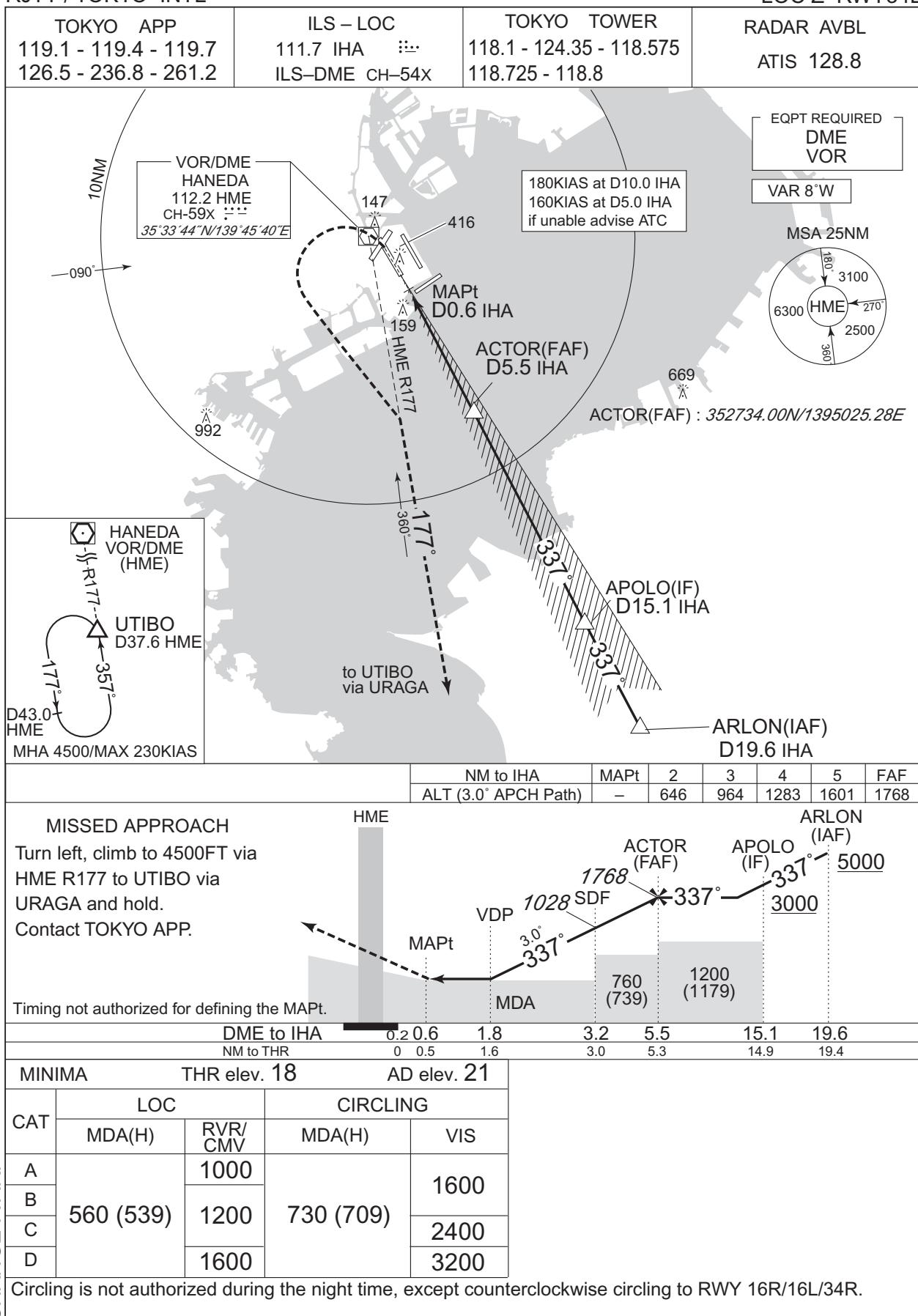
INSTRUMENT APPROACH CHART



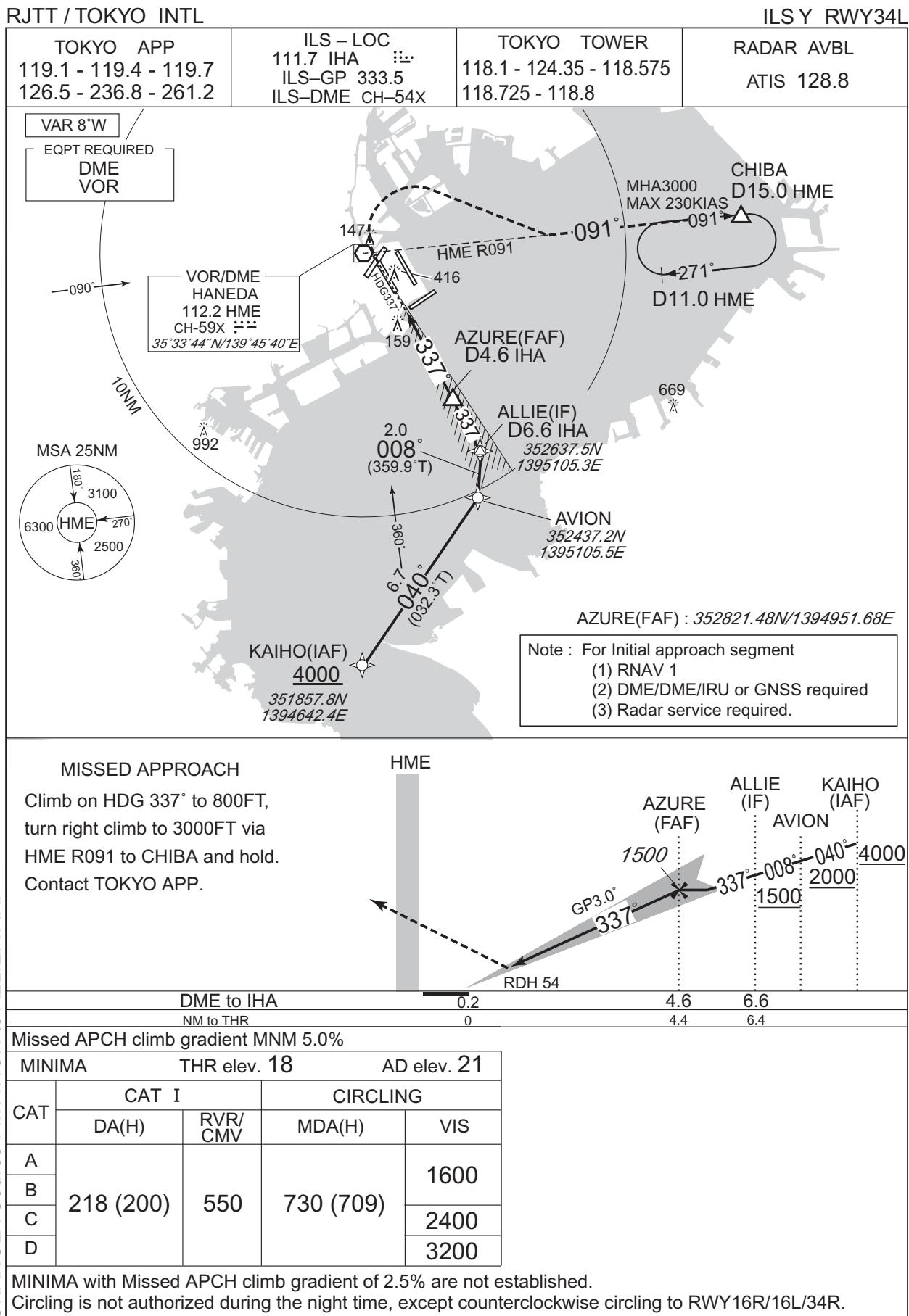
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

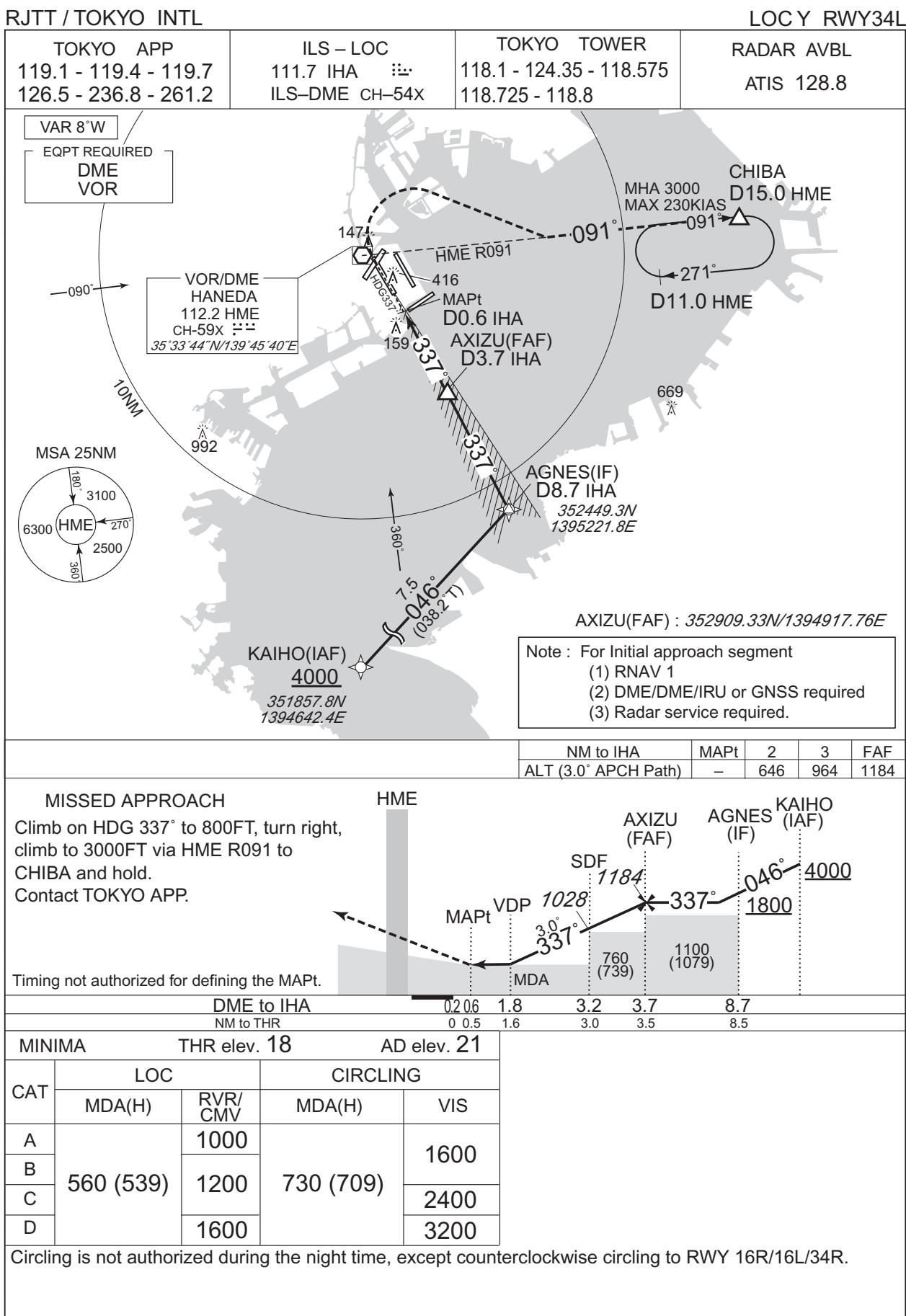
LOC Z RWY34L



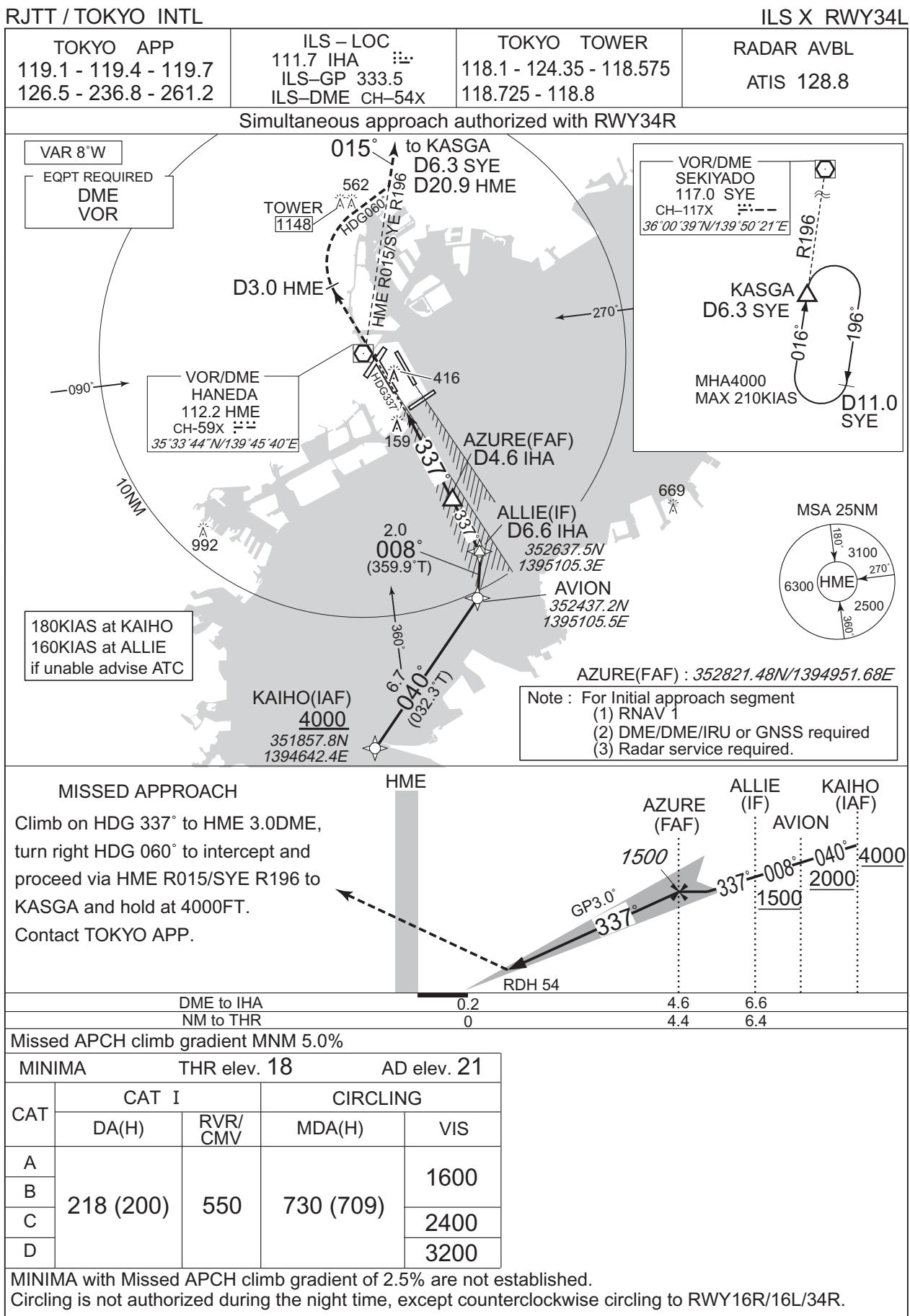
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



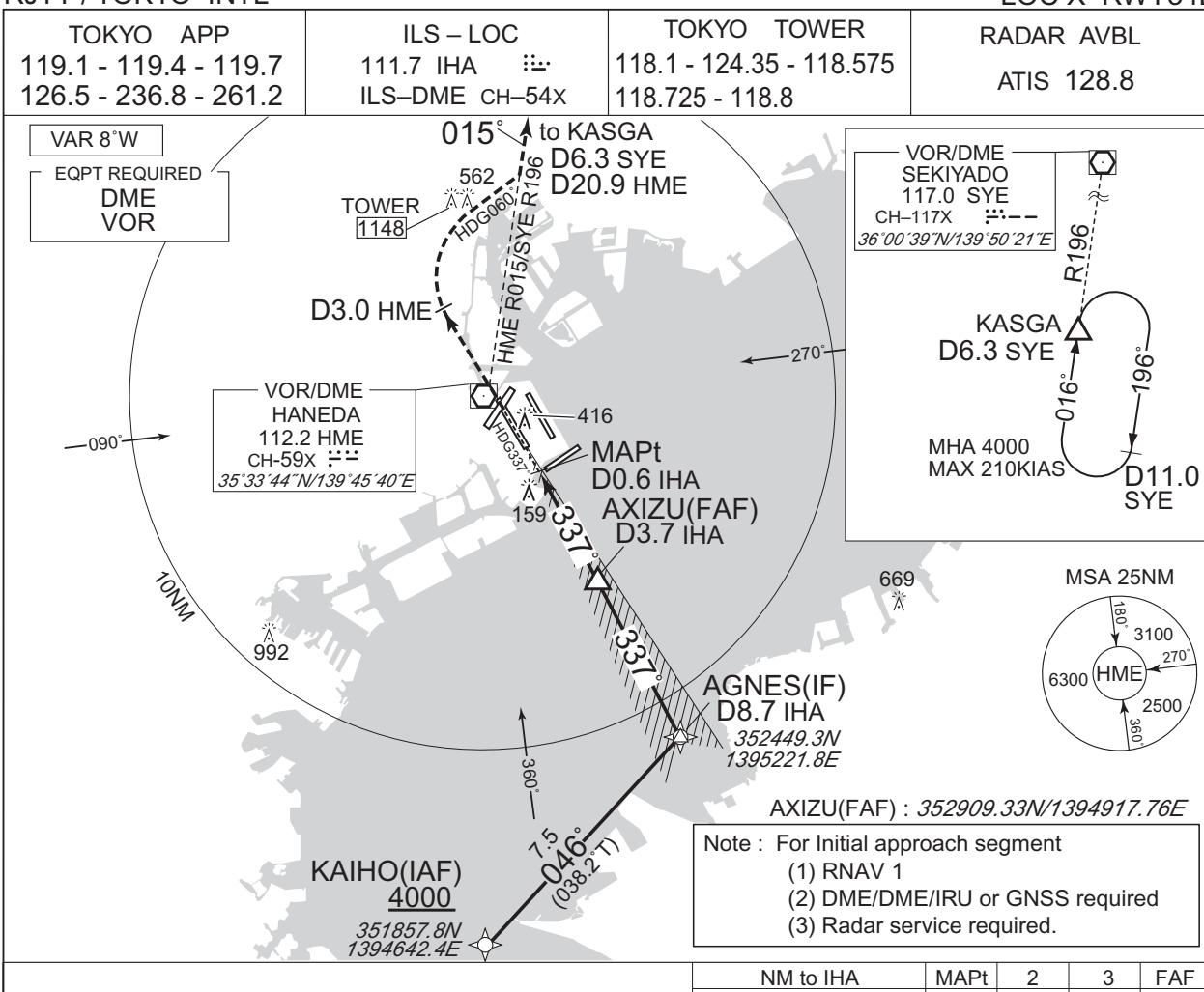
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

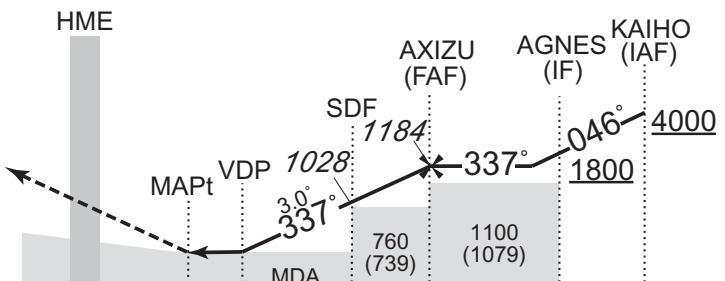
LOC X RWY34L



MISSSED APPROACH

Climb on HDG 337° to HME 3.0DME, turn right HDG 060° to intercept and proceed via HME R015/SYE R196 to KASGA and hold at 4000FT. Contact TOKYO APP.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 3.0%

MINIMA THR elev. 18 AD elev. 21

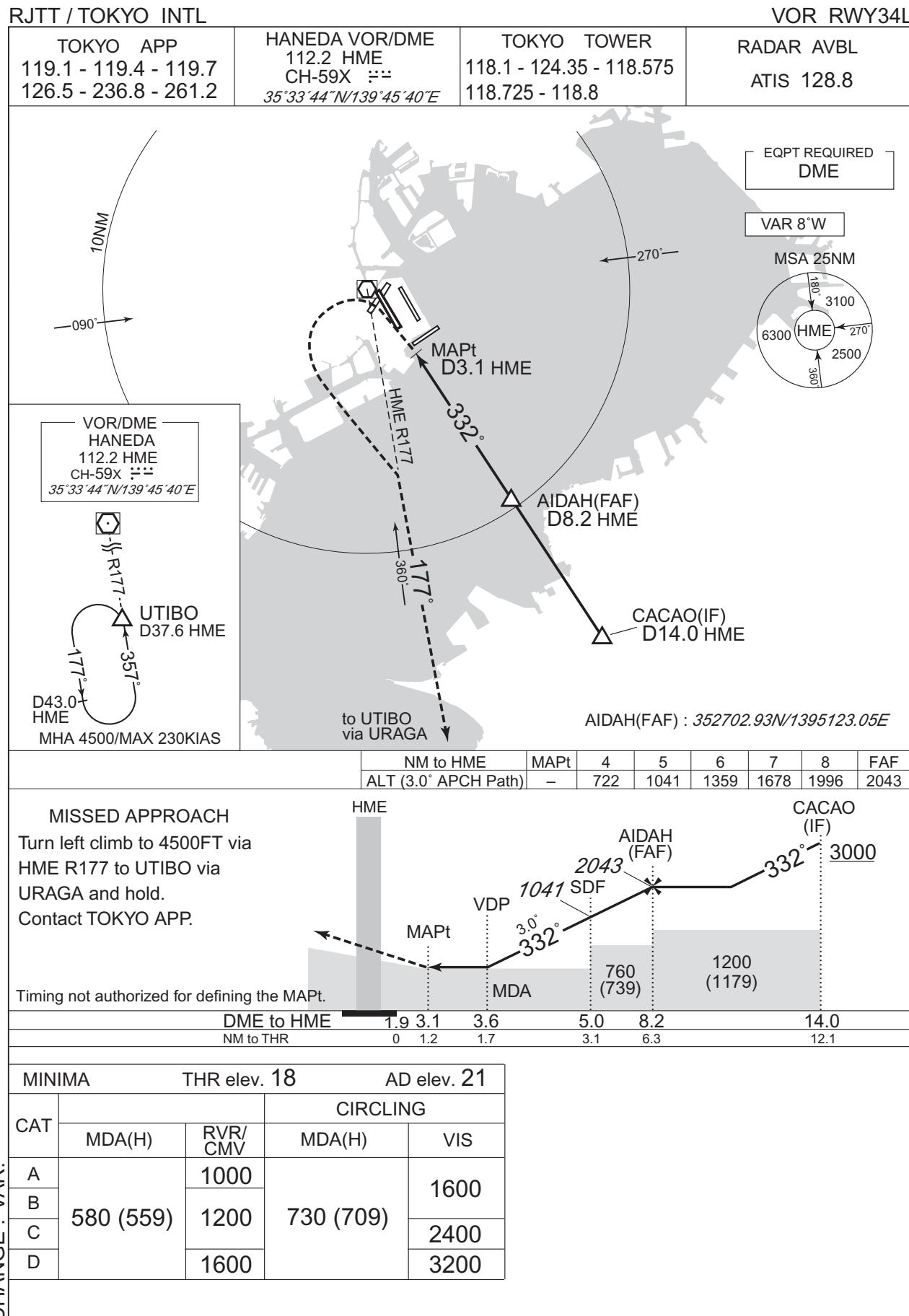
CHANGE : VAR.

| CAT | LOC | | CIRCLING | |
|-----|-----------|---------|-----------|------|
| | MDA(H) | RVR/CMV | MDA(H) | VIS |
| A | 1000 | | 1600 | |
| B | 560 (539) | 1200 | 730 (709) | 2400 |
| C | | | | 3200 |
| D | 1600 | | | |

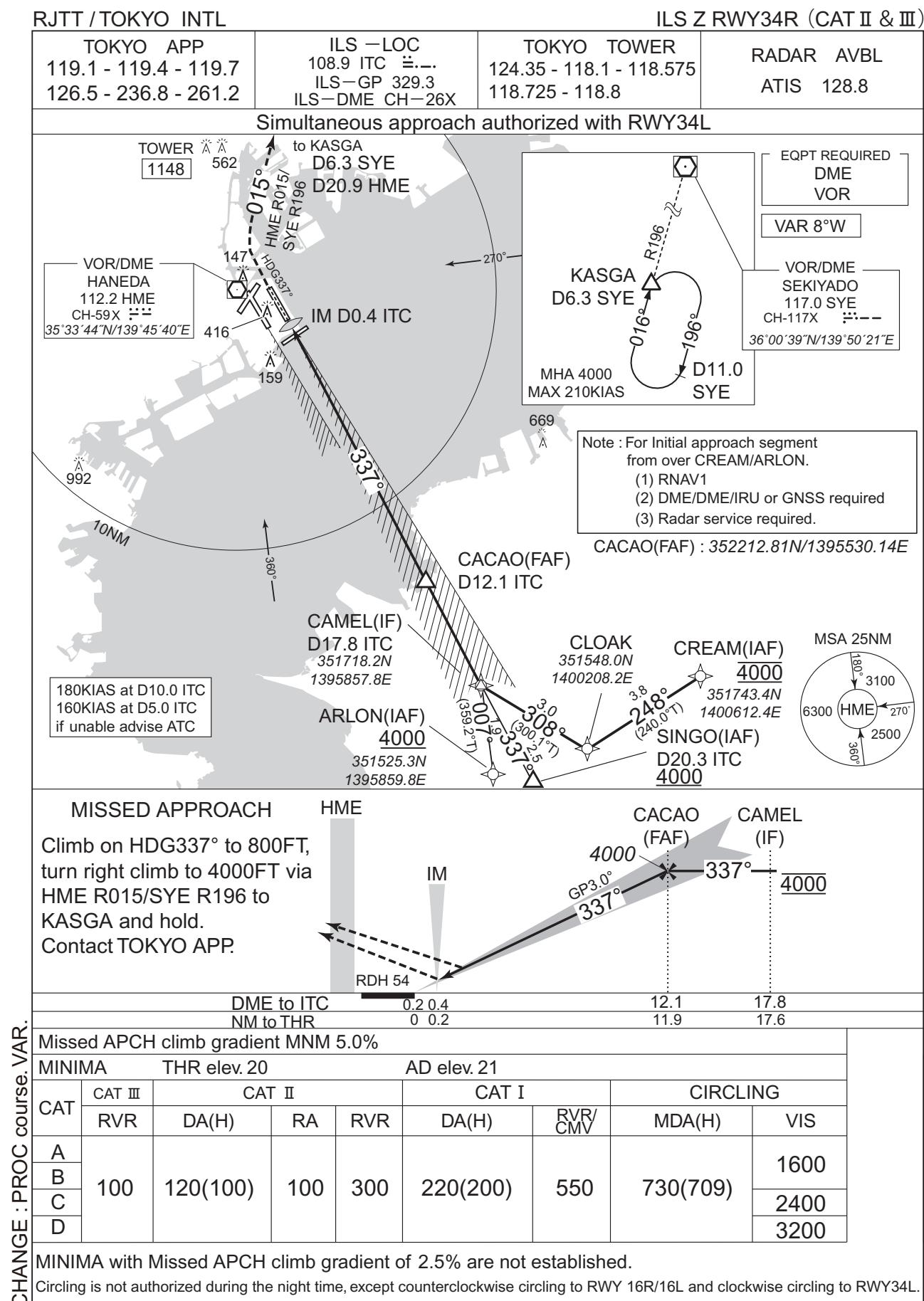
MINIMA with Missed APCH climb gradient of 2.5% are not established.

Circling is not authorized during the night time, except counterclockwise circling to RWY16R/16L/34R.

INSTRUMENT APPROACH CHART



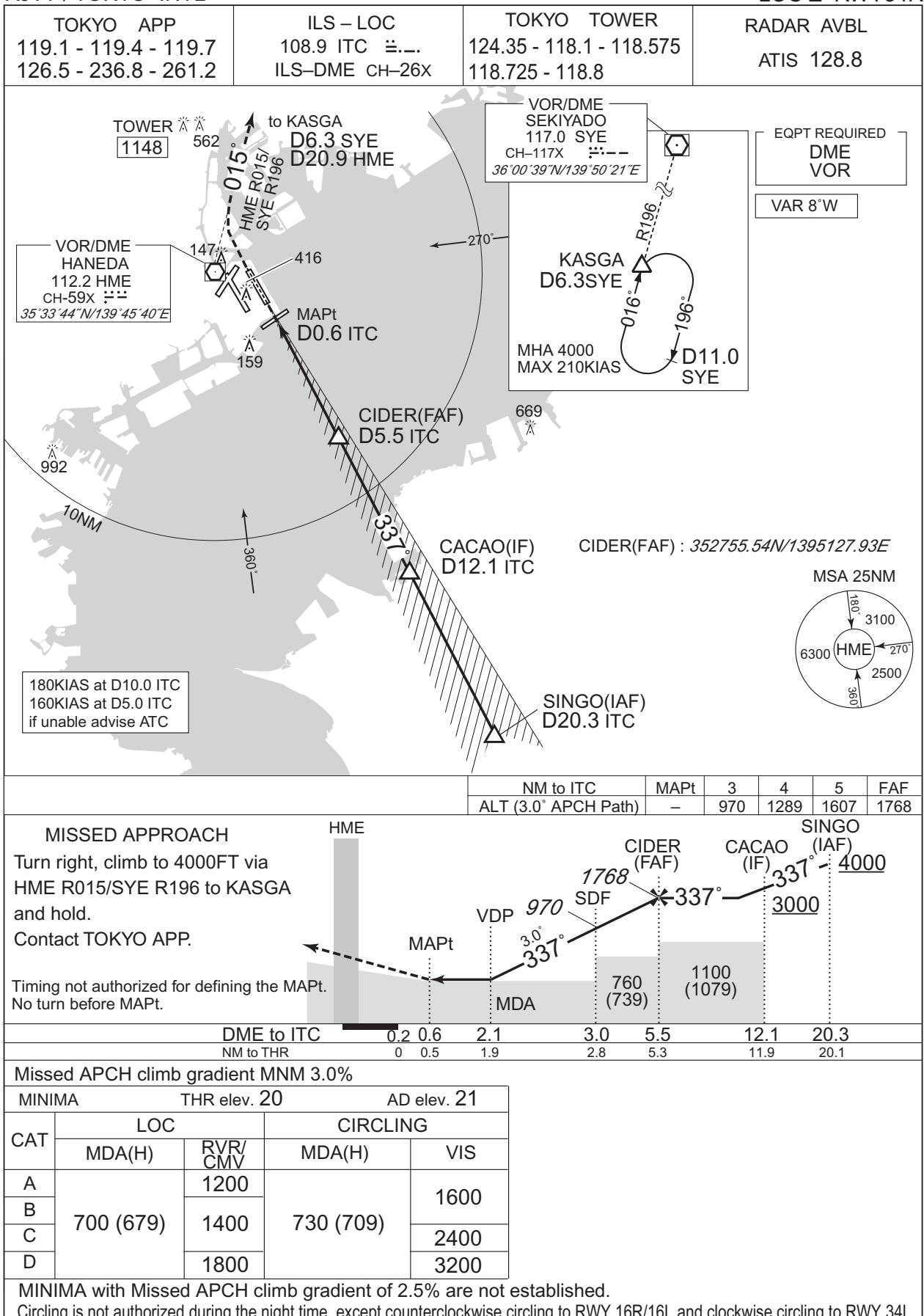
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LOC Z RWY34R

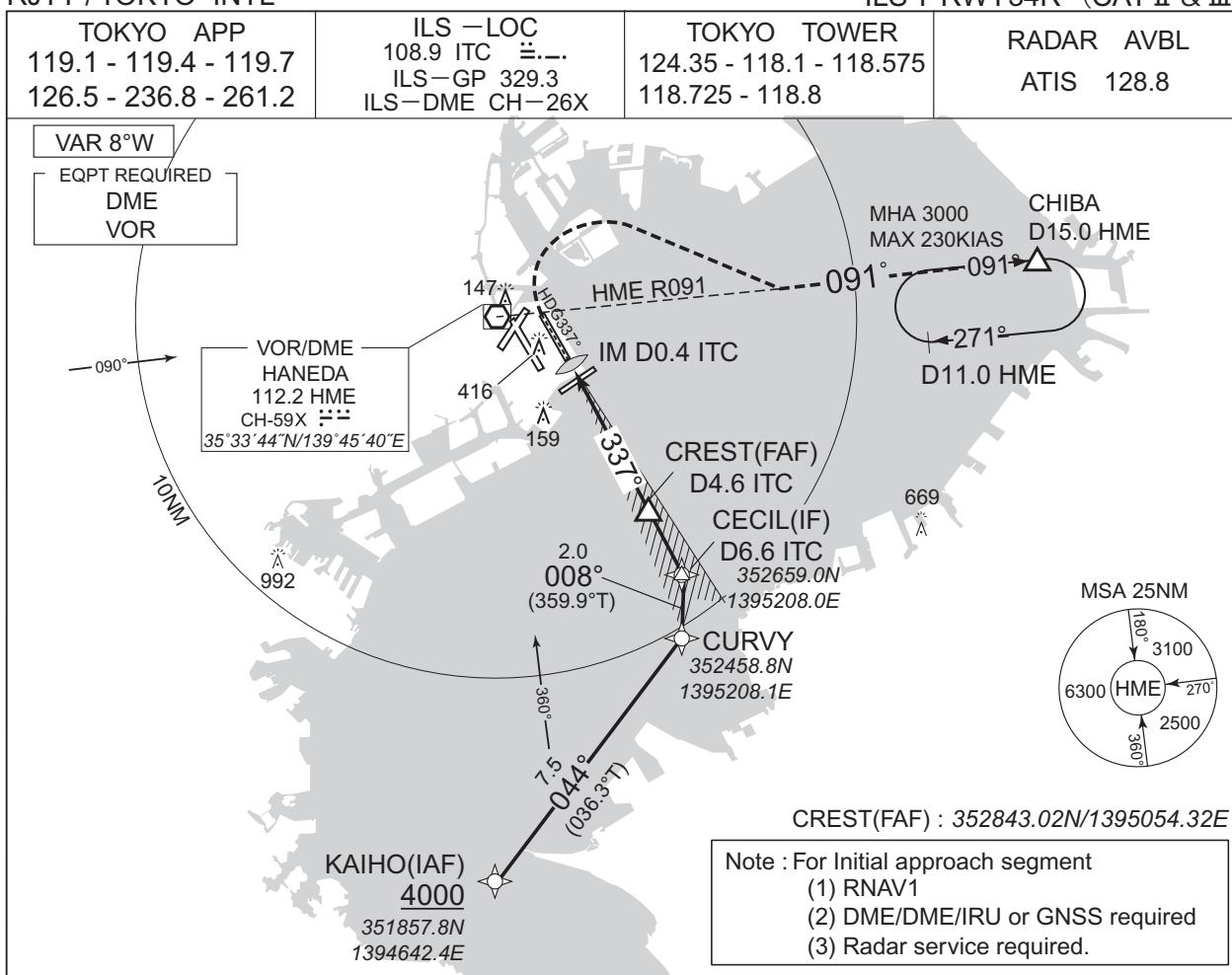


CHANGE : VAR.

INSTRUMENT APPROACH CHART

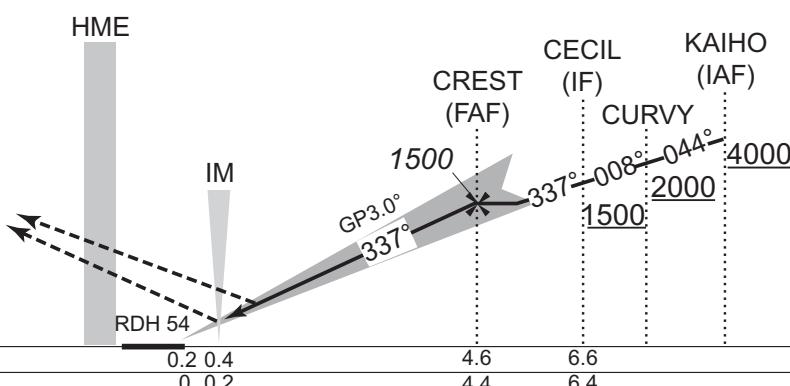
RJTT / TOKYO INTL

ILS Y RWY34R (CAT II & III)



MISSED APPROACH

Climb on HDG337° to 800FT, turn right climb to 3000FT via HME R091 to CHIBA and hold. Contact TOKYO APP.



Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 20

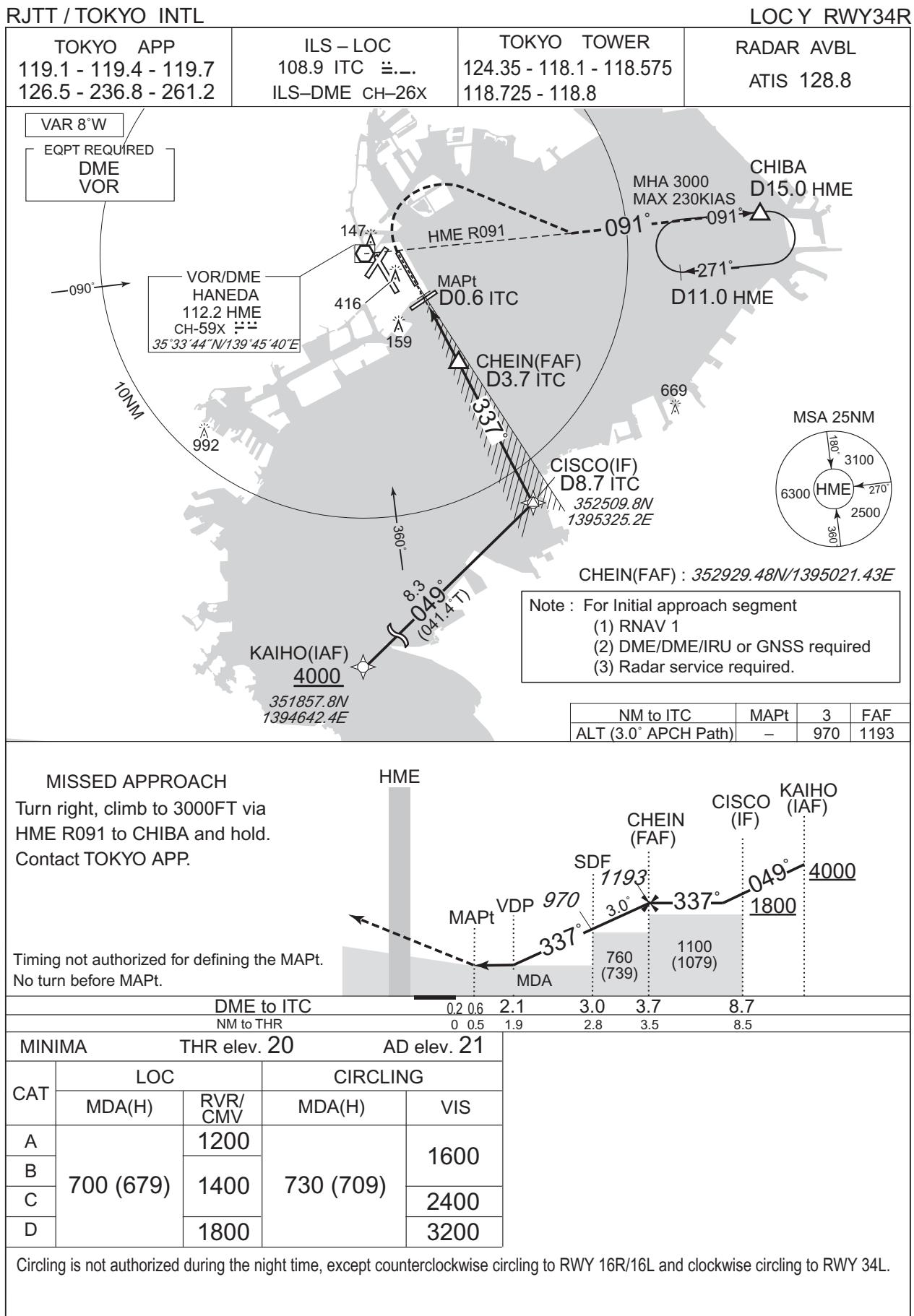
AD elev. 21

| CAT | CAT III | CAT II | | | CAT I | | CIRCLING | |
|-----|---------|----------|-----|-----|----------|---------|----------|------|
| | RVR | DA(H) | RA | RVR | DA(H) | RVR/CMV | MDA(H) | VIS |
| A | | | | | | | | 1600 |
| B | 100 | 120(100) | 100 | 300 | 220(200) | 550 | 730(709) | 2400 |
| C | | | | | | | | 3200 |
| D | | | | | | | | |

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

Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L and clockwise circling to RWY 34L.

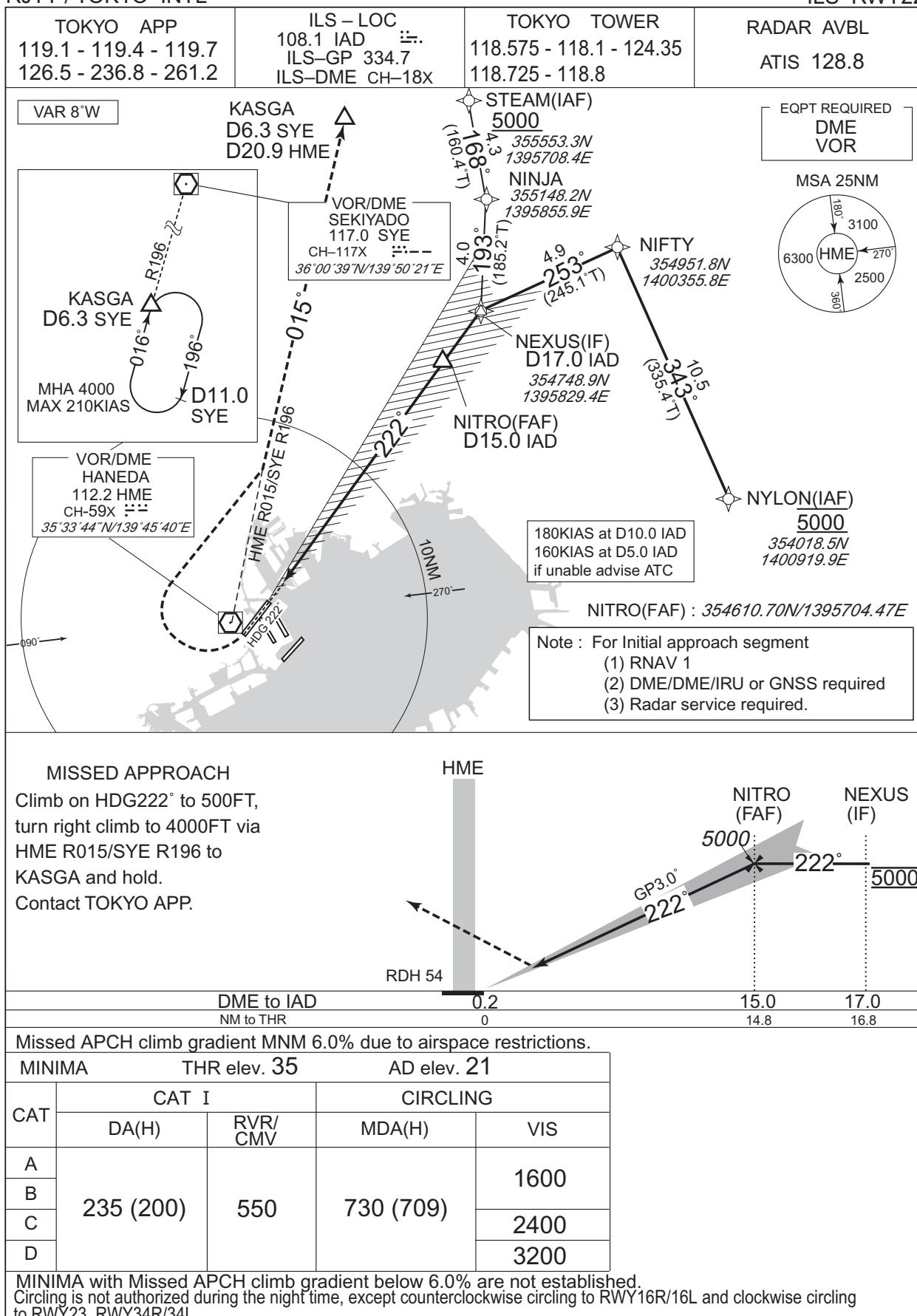
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS RWY22

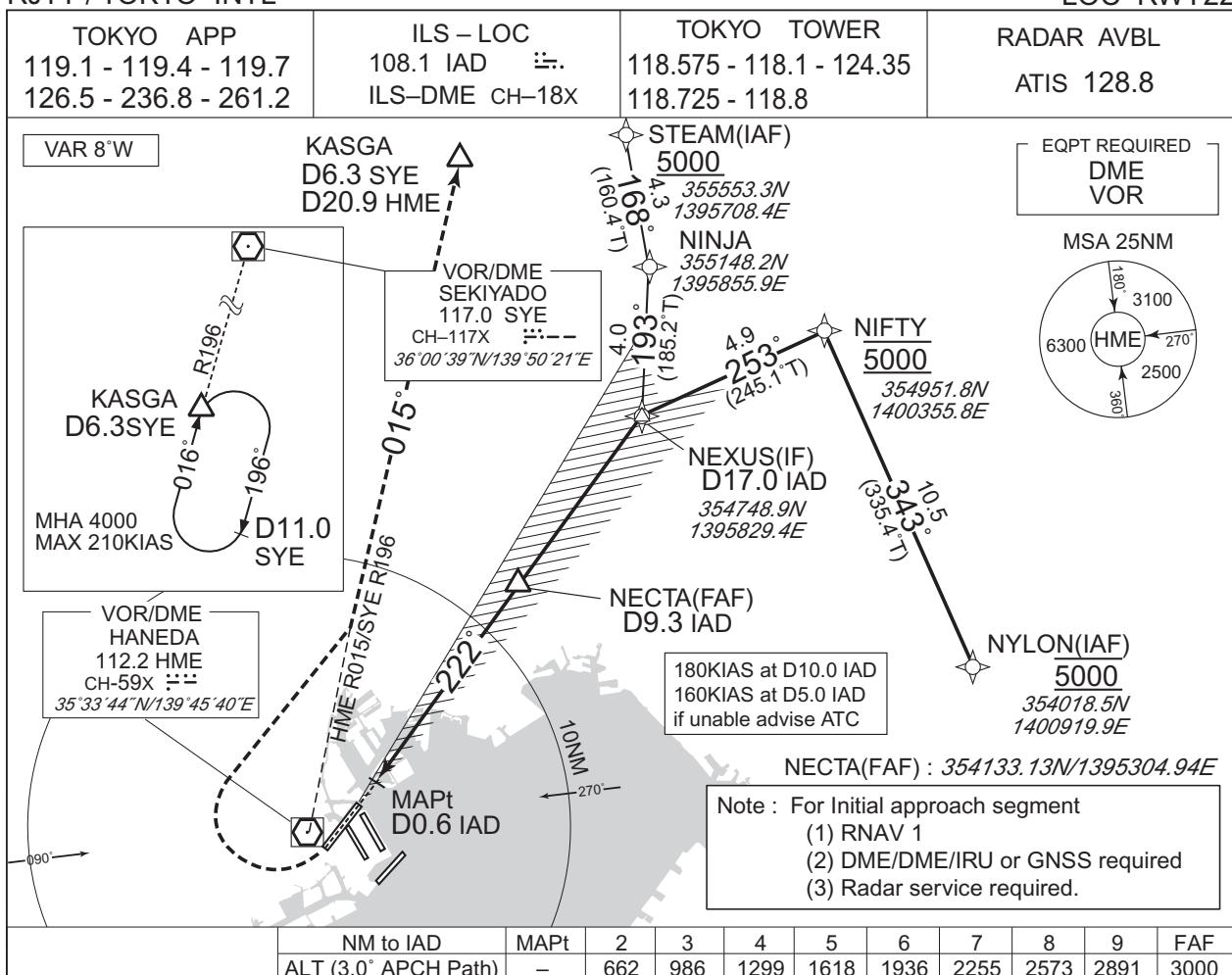


CHANGE : PROC course. VAR.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

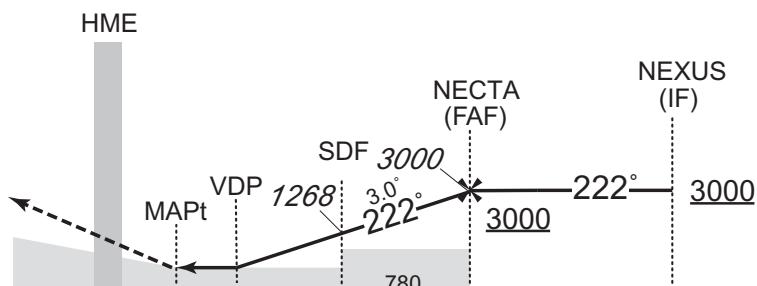
LOC RWY22



MISSED APPROACH

Turn right, climb to 4000FT via HME R015/SYE R196 to KASGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.
No turn before MAPt.



Missed APCH climb gradient MNM 4.0%

MINIMA THR elev. 35 AD elev. 21

CHANGE : PROC course. VAR.

| CAT | LOC | | CIRCLING | |
|-----|-----------|---------|-----------|------|
| | MDA(H) | RVR/CMV | MDA(H) | VIS |
| A | 1000 | | | |
| B | 600 (579) | 1200 | 730 (709) | 1600 |
| C | | | | 2400 |
| D | 1600 | | | 3200 |

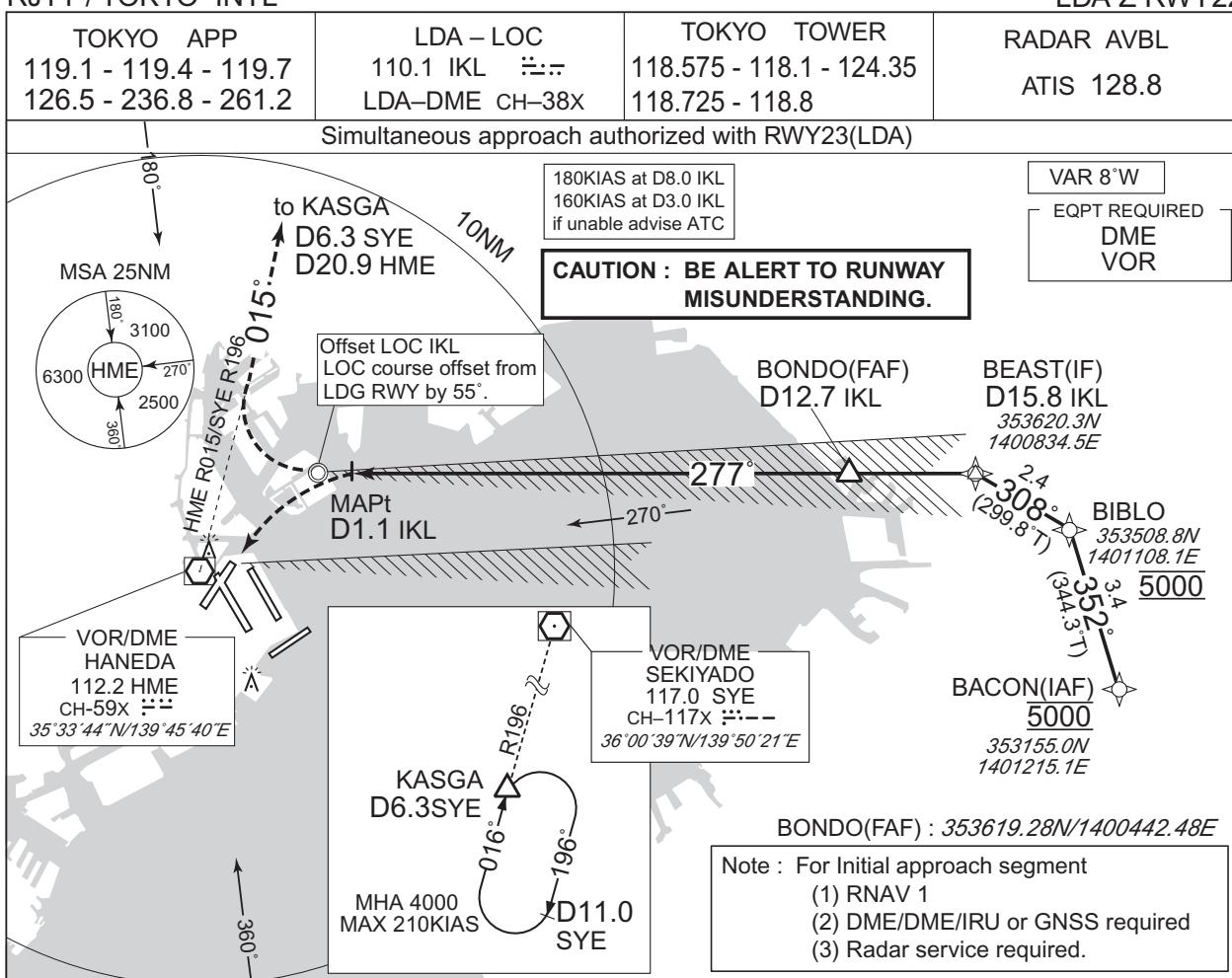
MINIMA with Missed APCH climb gradient of 2.5% are not established.

Circling is not authorized during the night time, except counterclockwise circling to RWY16R/16L and clockwise circling to RWY23, RWY34R/34L.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Z RWY22

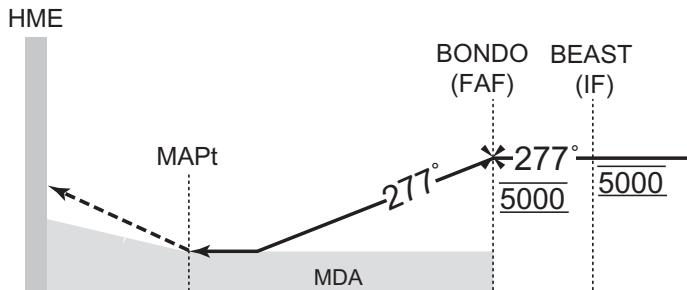


MISSED APPROACH

At MAPt, turn right climb to 4000FT via HME R015 /SYE R196 to KASGA and hold.

Contact TOKYO APP.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 4.0%

| MINIMA | | THR elev. 35 | AD elev. 21 |
|--------|------------|--------------|-------------|
| CAT | MDA(H) | VIS | |
| A | | | |
| B | | | |
| C | 1000 (979) | 6000 | |
| D | | | |

MINIMA with Missed APCH climb gradient of 2.5% are not established.
MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

**Do Not turn left
until D1.1 IKL**

**SO AS NOT TO MISUNDERSTAND
THE RUNWAY**

CHANGE : PROC course. VAR.

INSTRUMENT APPROACH CHART

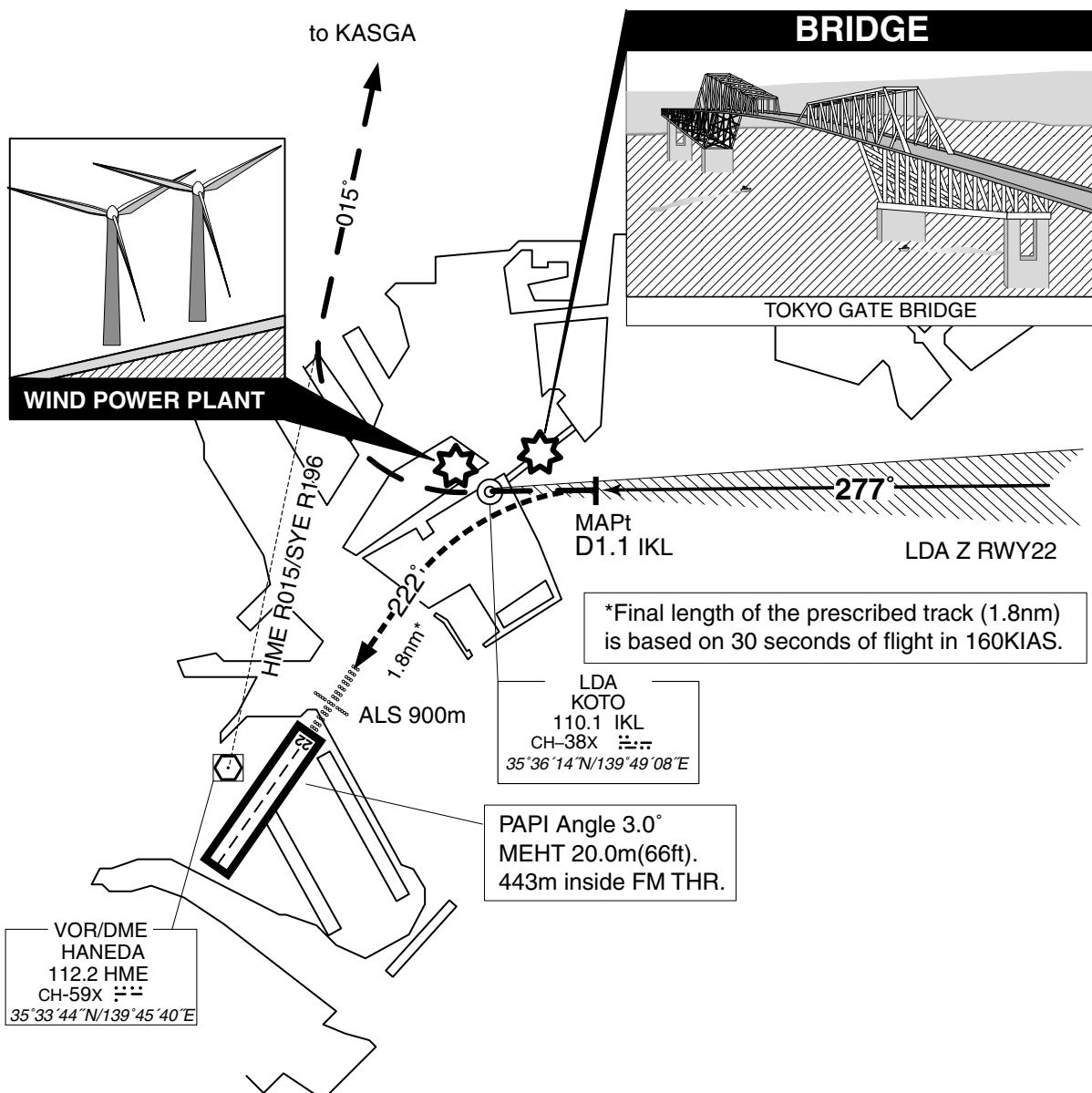
RJTT / TOKYO INTL

LDA Z RWY22

Visual Prescribed Track for LDA Z RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

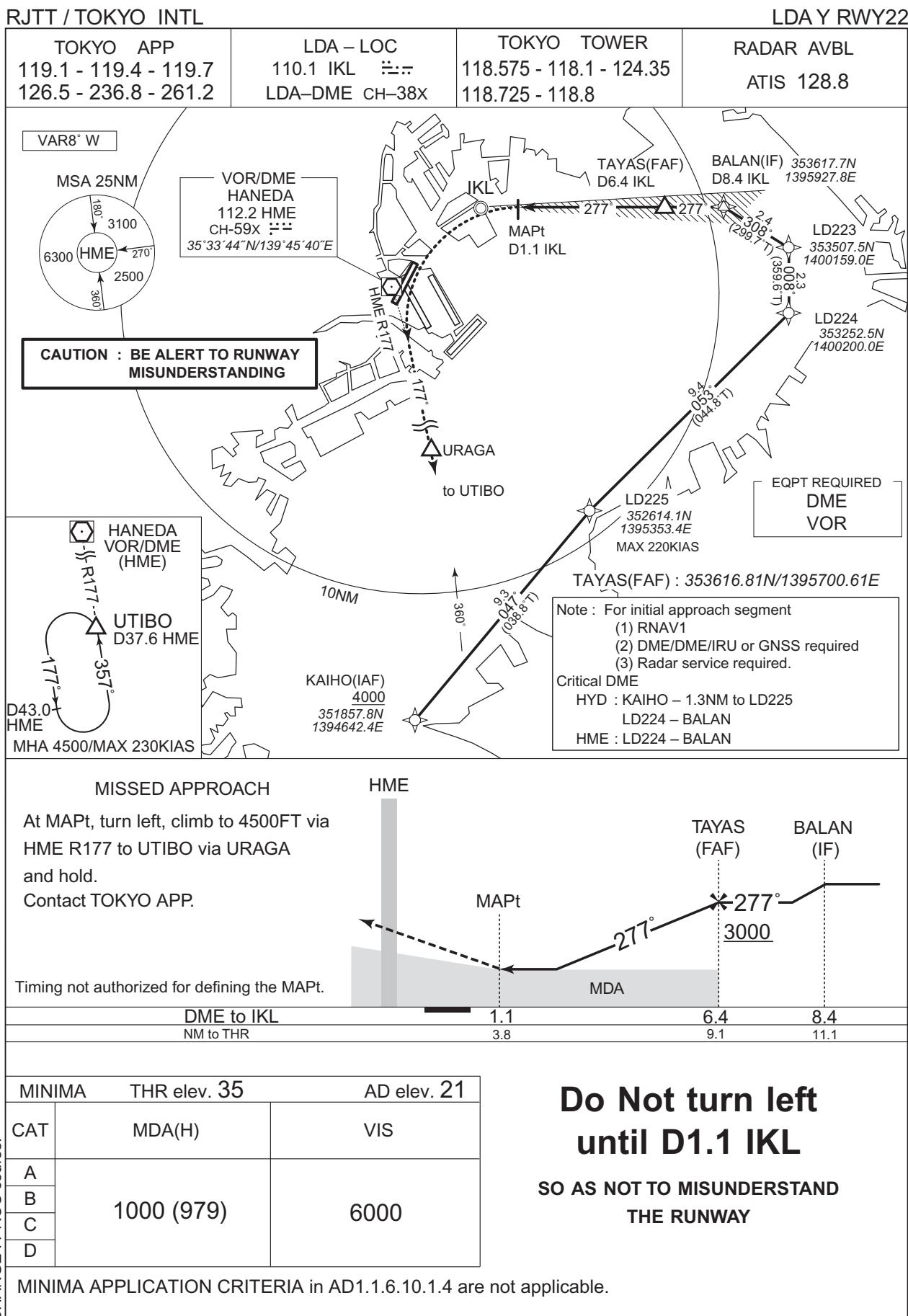
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn right for joining HME R015/SYE R196 and missed approach procedure.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

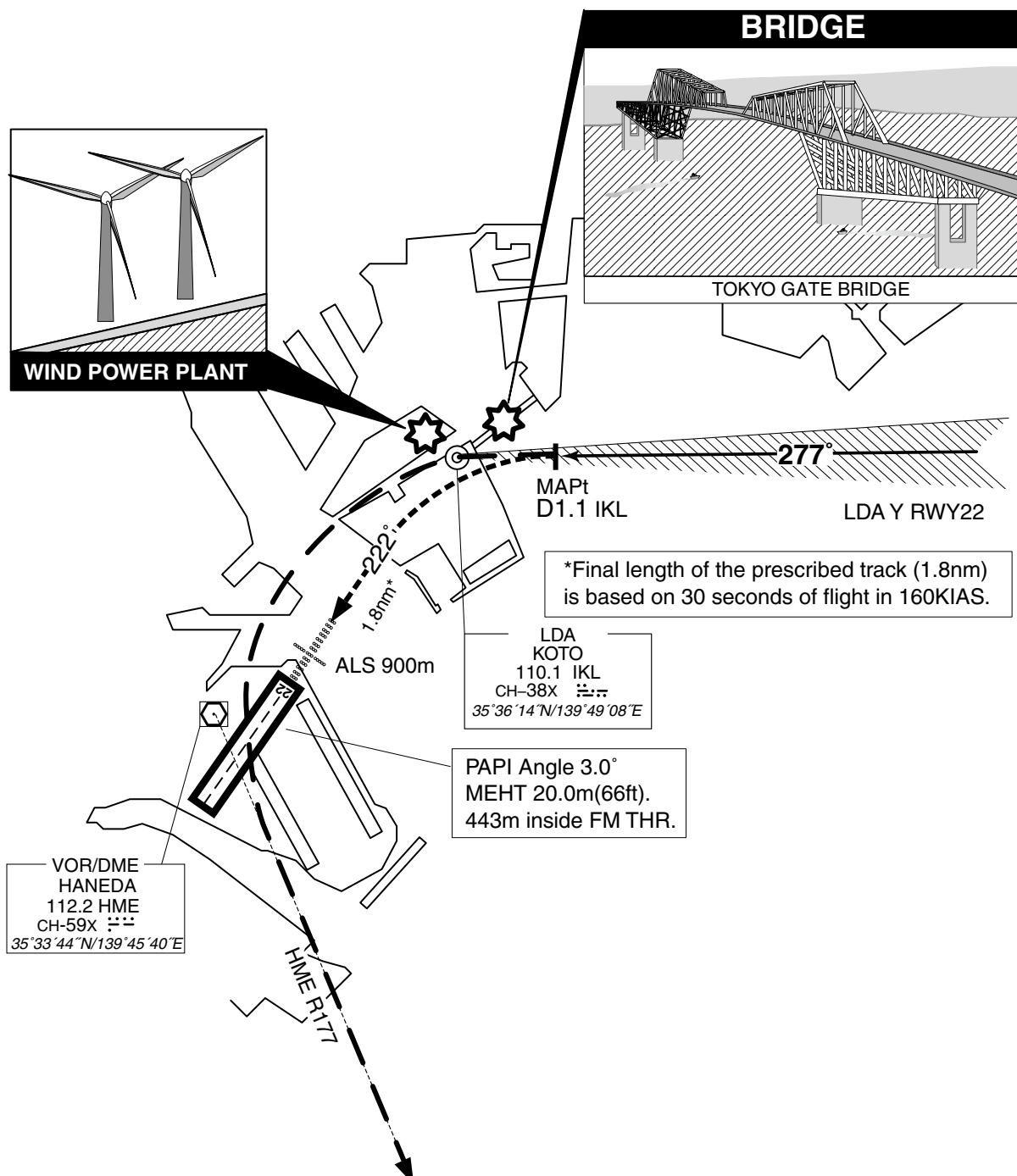
RJTT / TOKYO INTL

LDA Y RWY22

Visual Prescribed Track for LDA Y RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



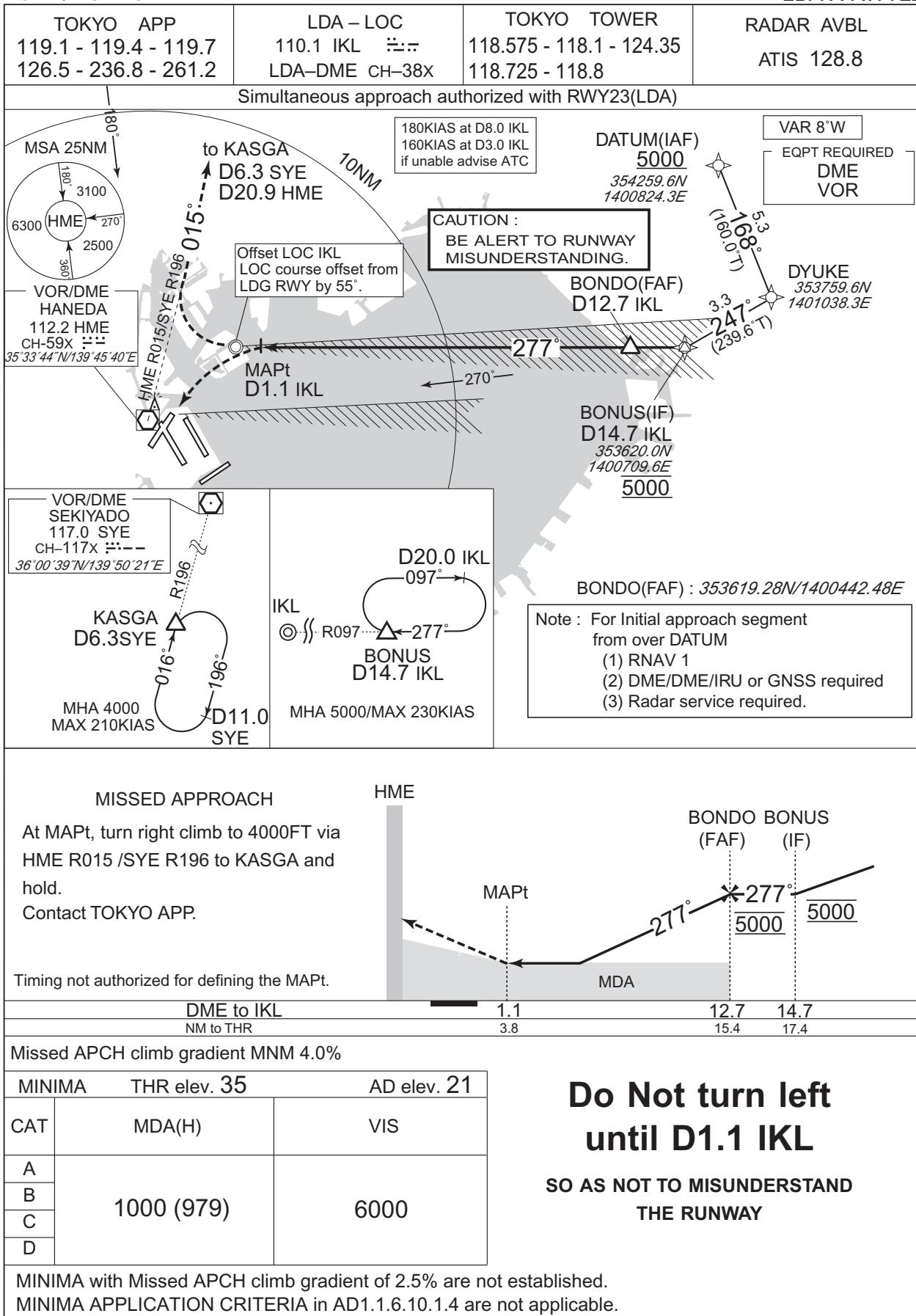
In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn left for joining HME R177 and missed approach procedure.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA X RWY22



INSTRUMENT APPROACH CHART

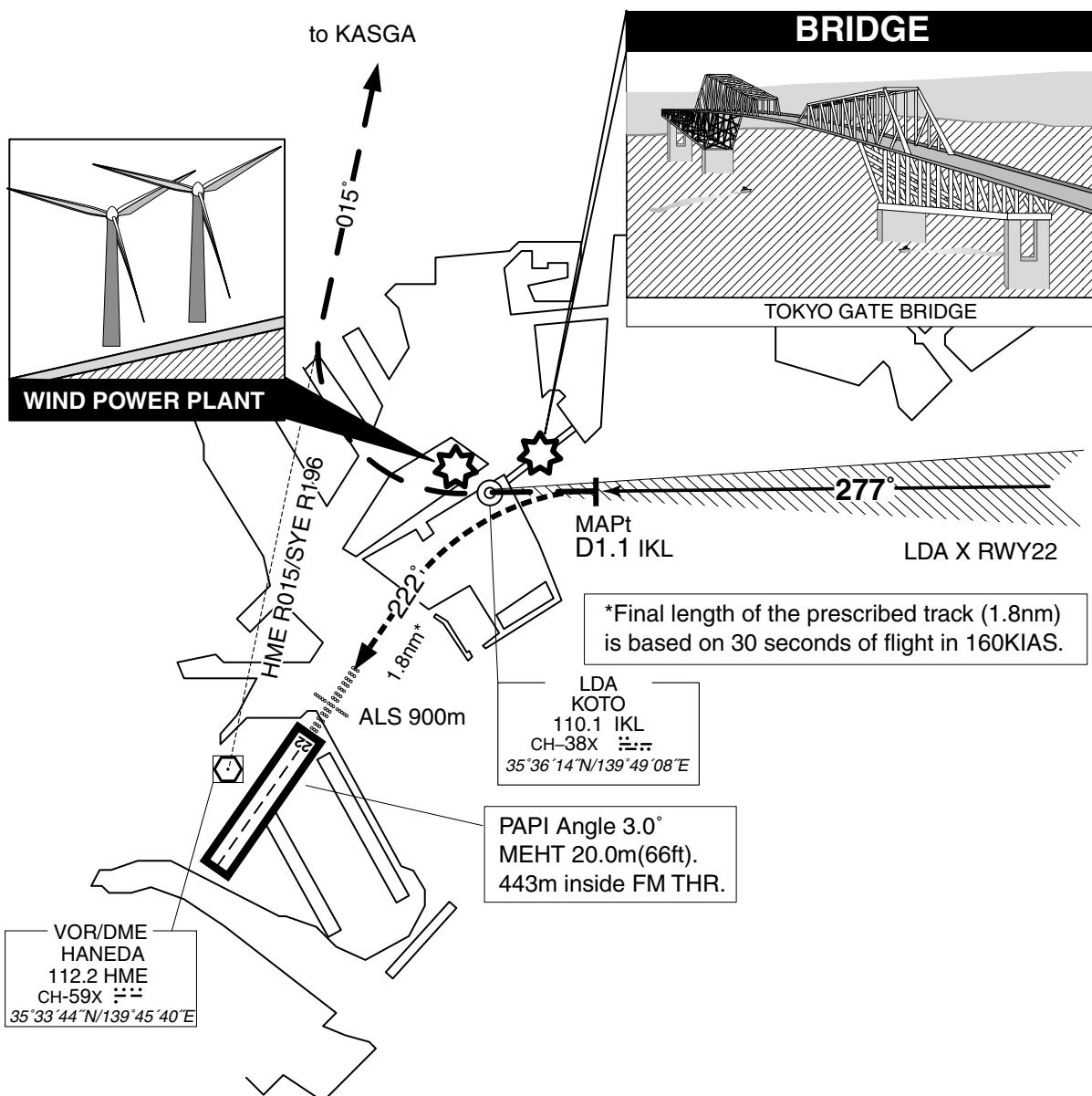
RJTT / TOKYO INTL

LDA X RWY22

Visual Prescribed Track for LDA X RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

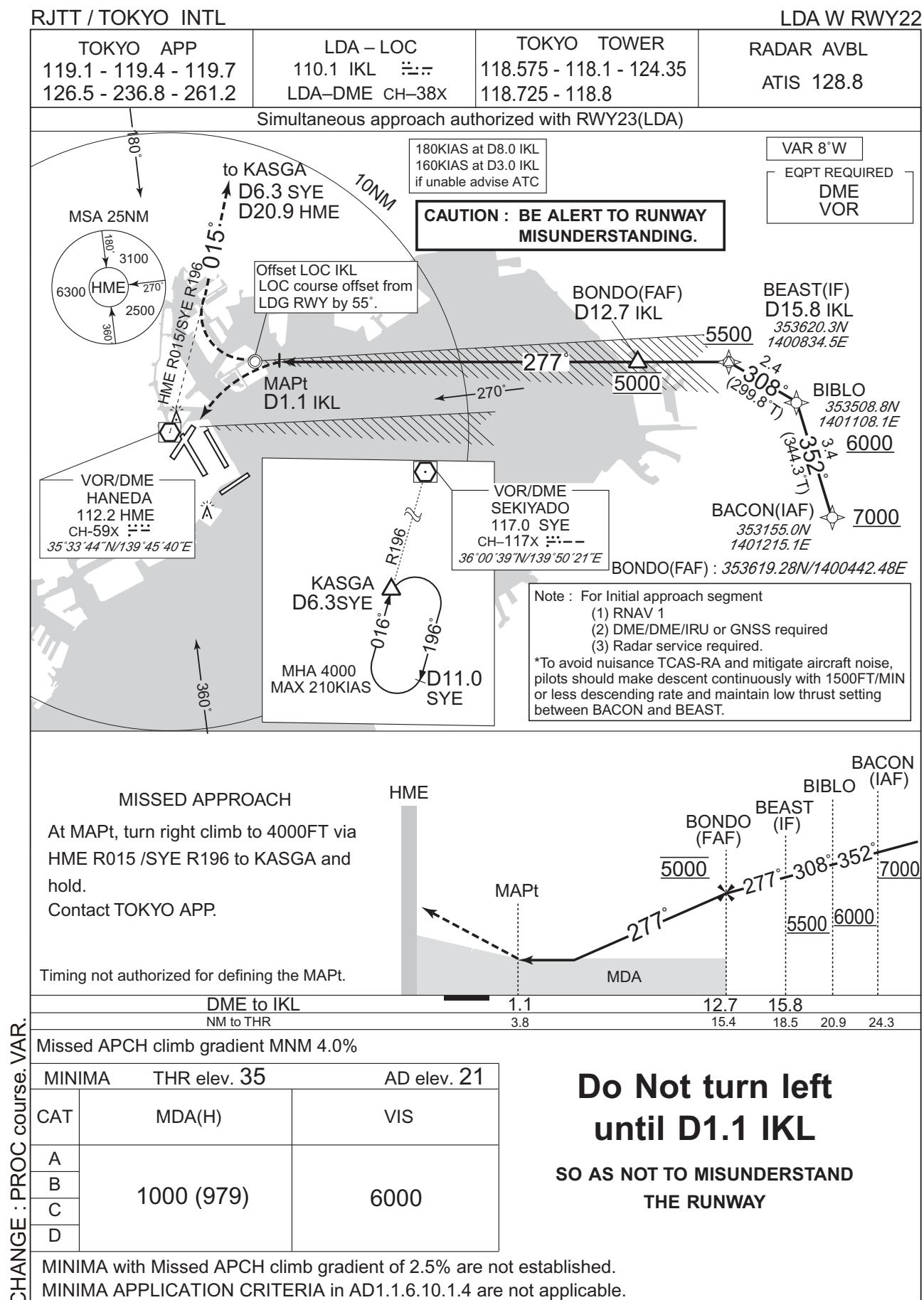
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn right for joining HME R015/SYE R196 and missed approach procedure.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

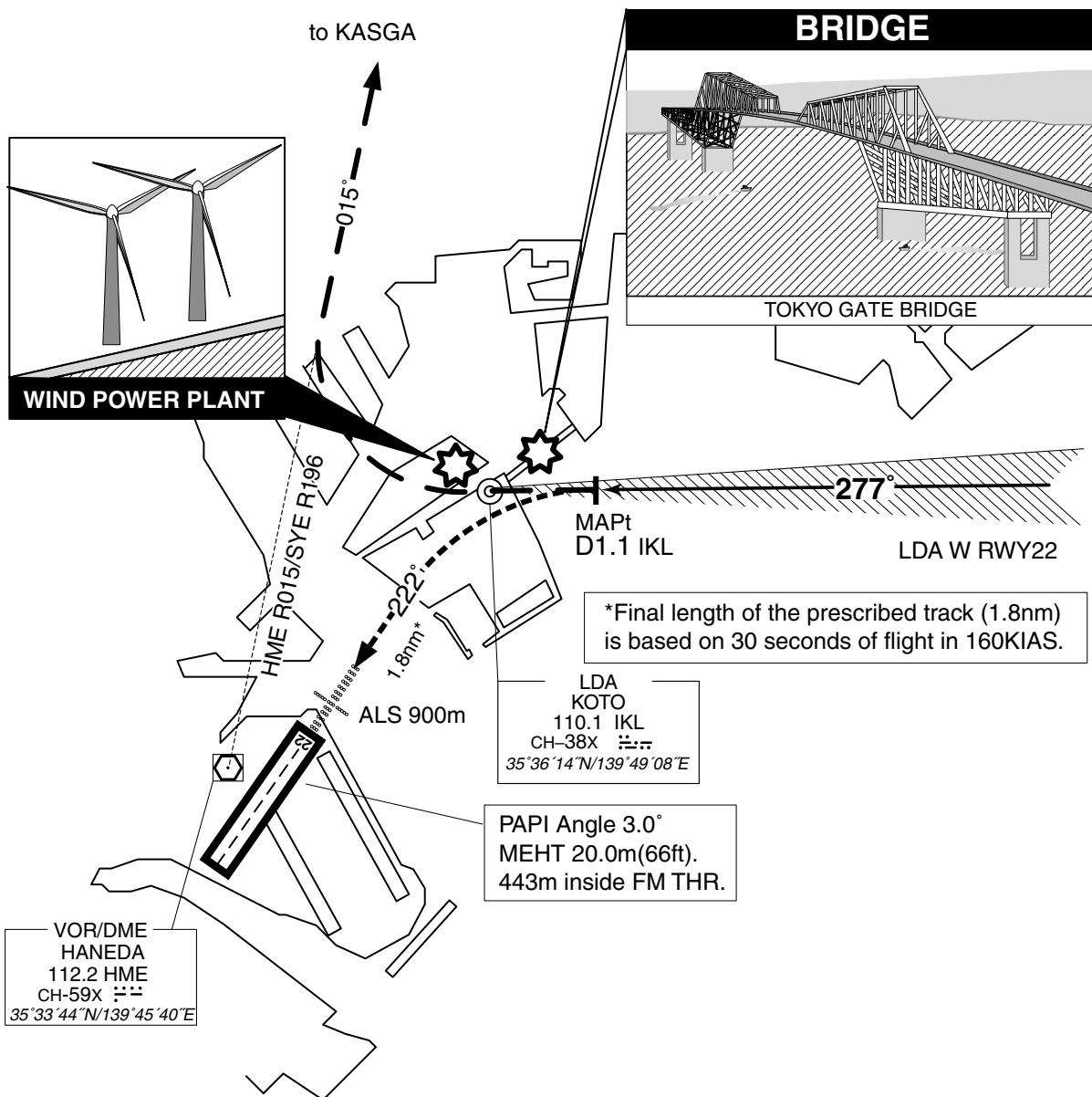
RJTT / TOKYO INTL

LDA W RWY22

Visual Prescribed Track for LDA W RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

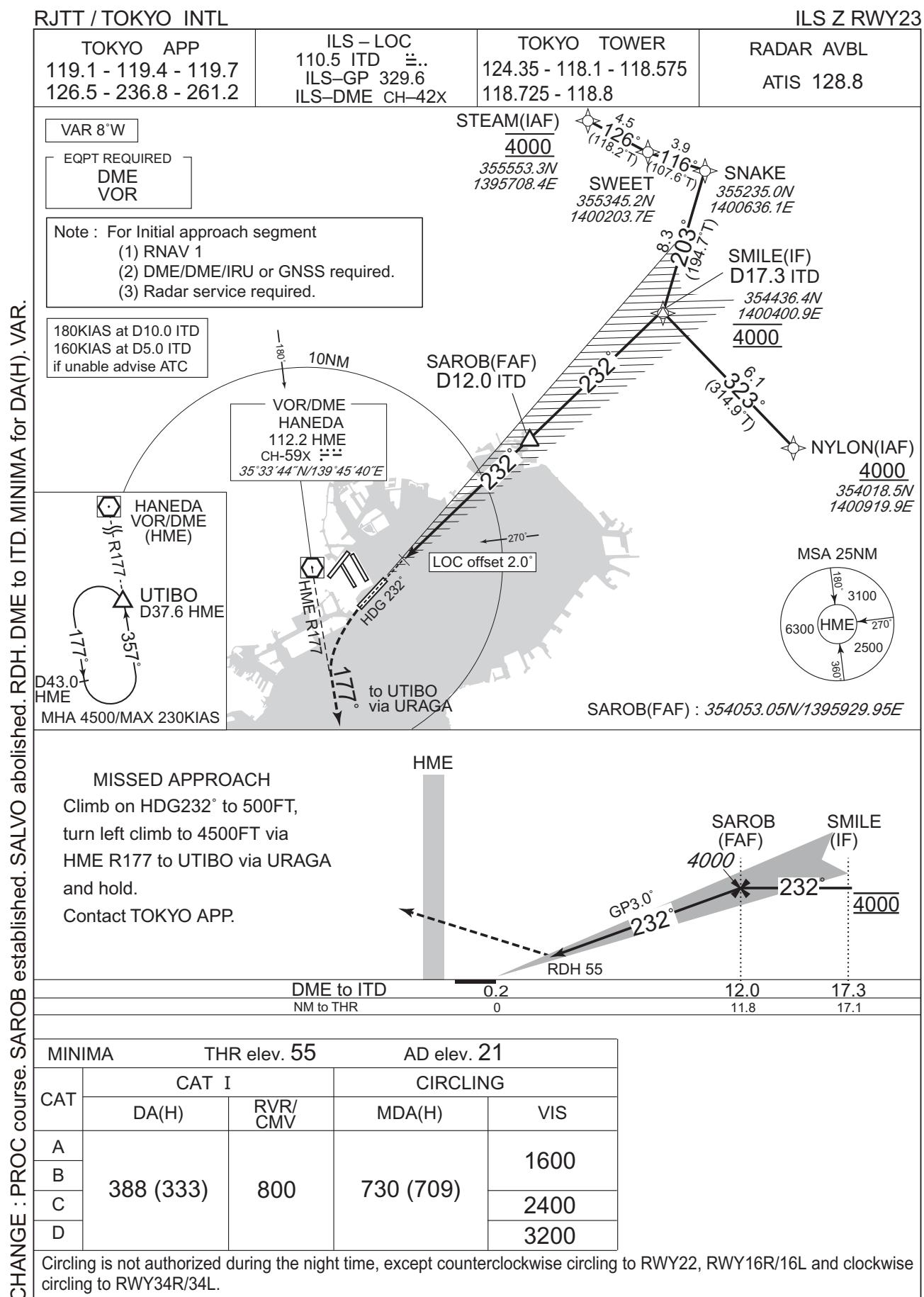
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



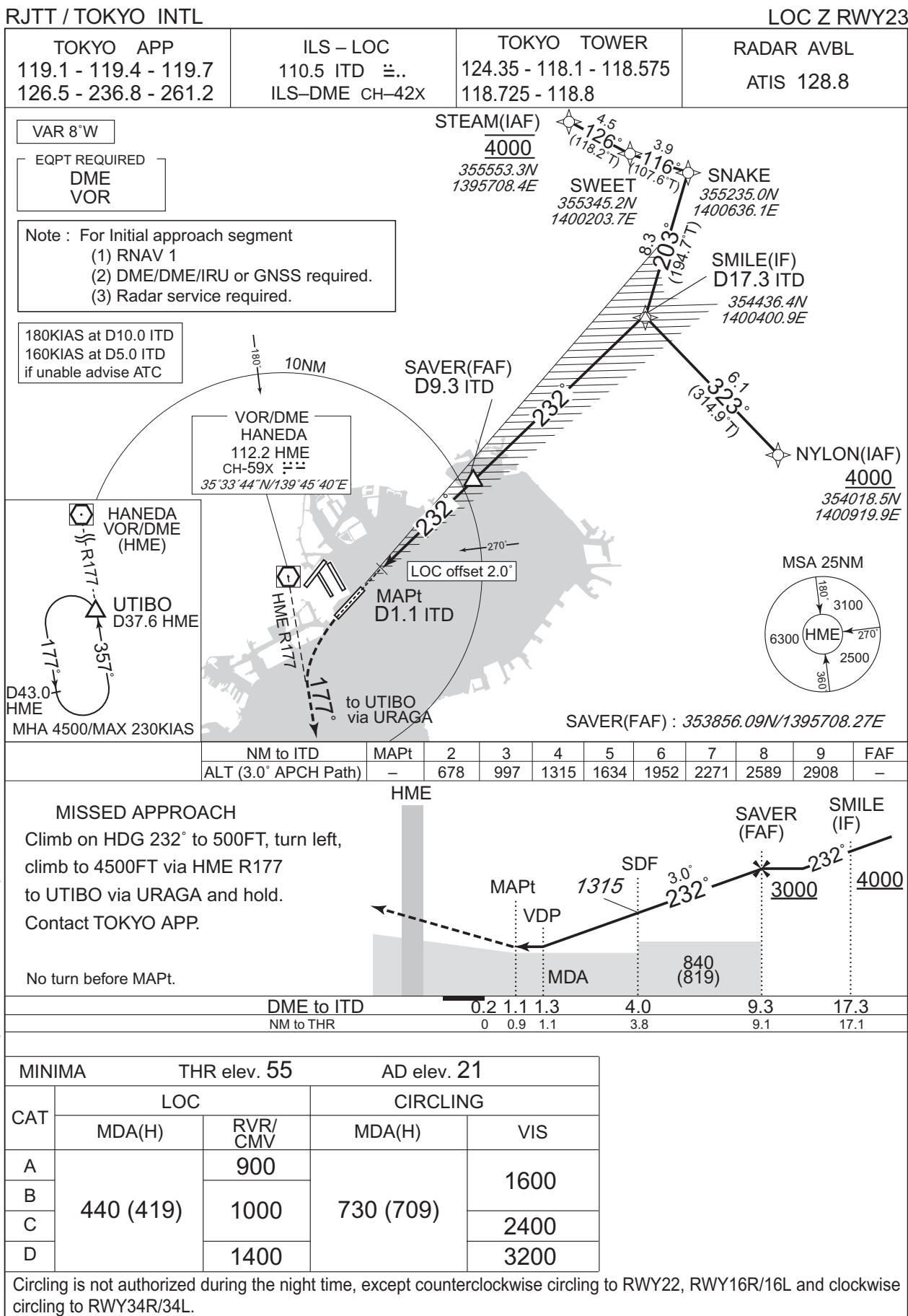
In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn right for joining HME R015/SYE R196 and missed approach procedure.

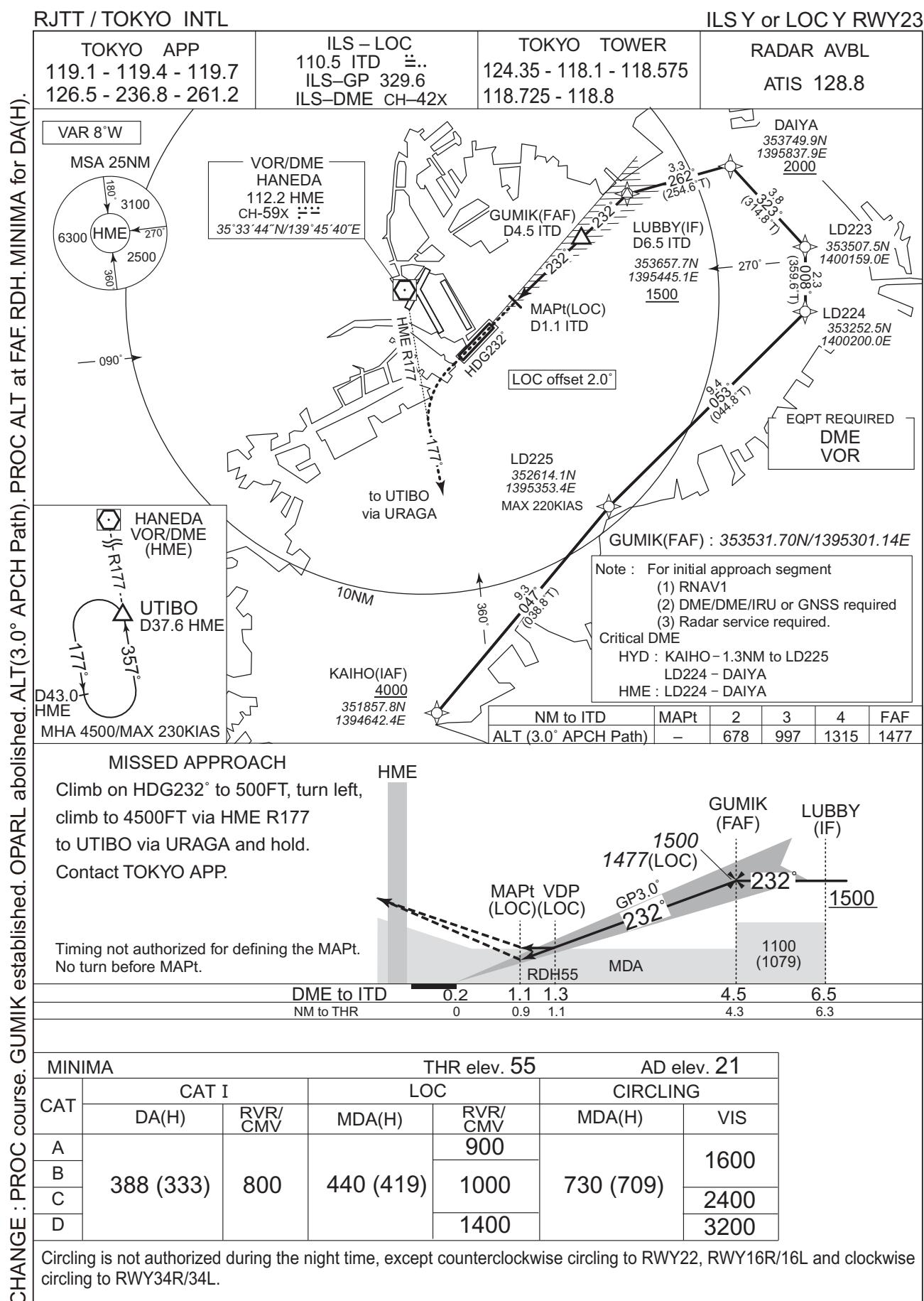
INSTRUMENT APPROACH CHART



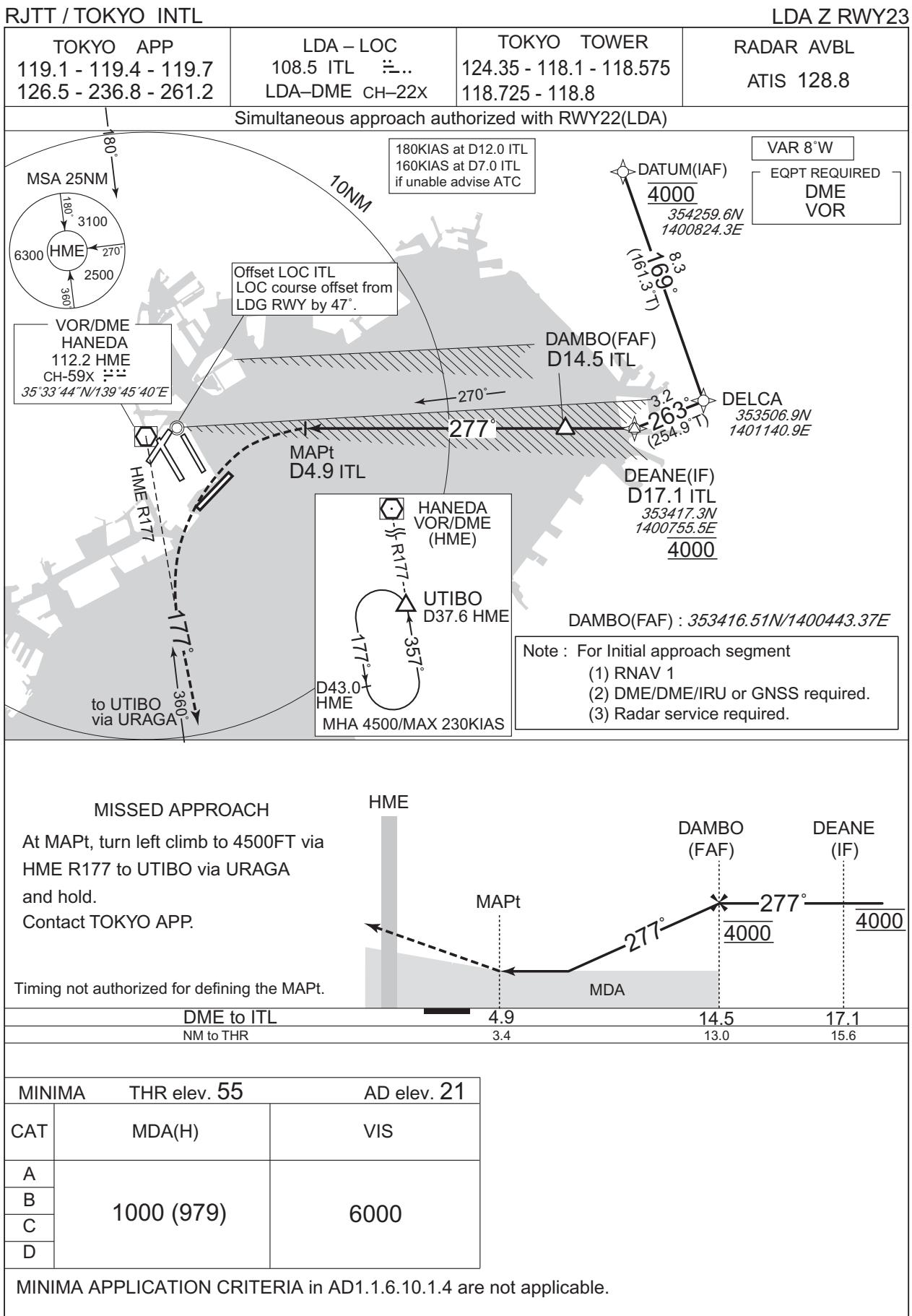
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



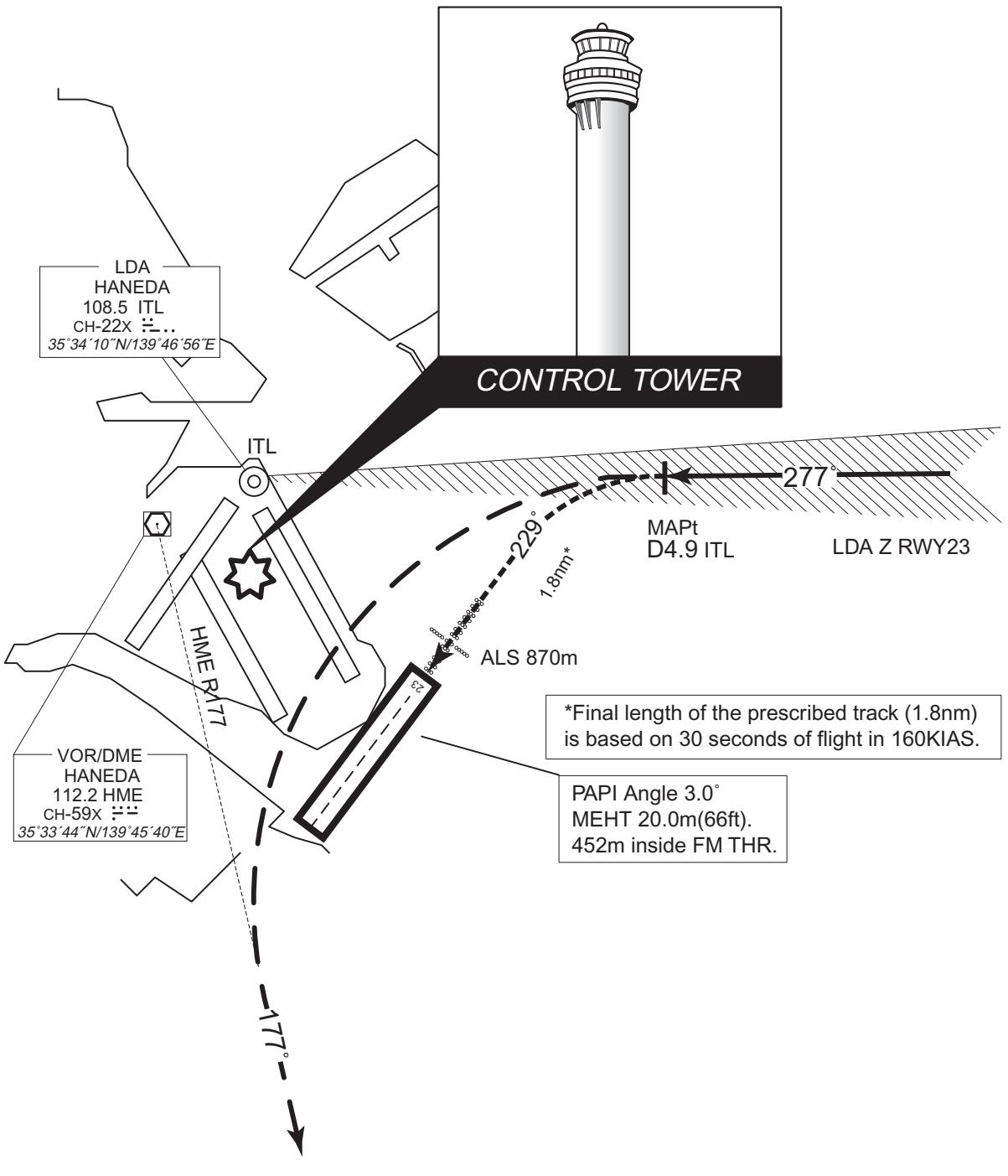
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Z RWY23

Visual Prescribed Track for LDA Z RWY23

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.



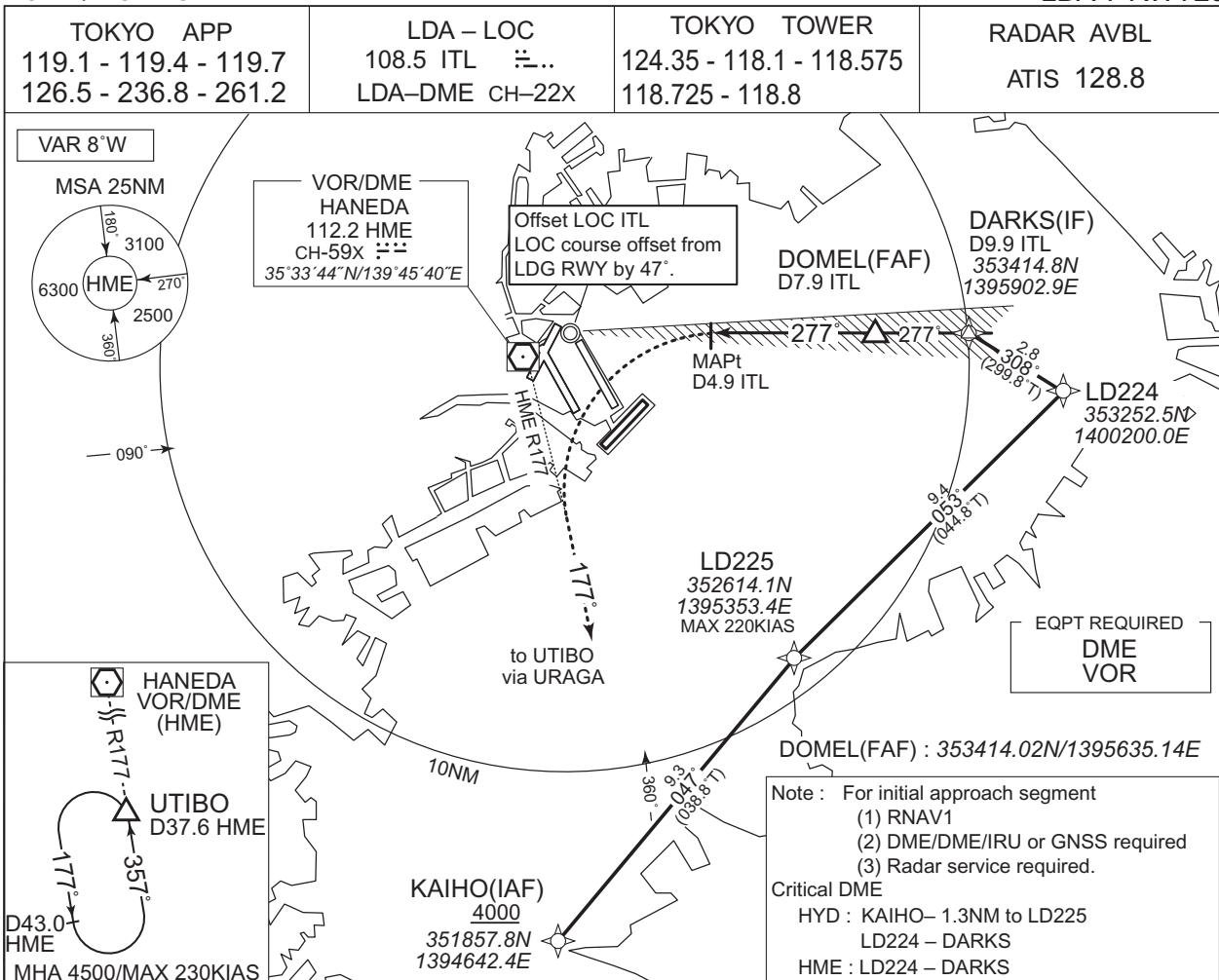
In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn left HDG 229° for joining HME R177 and missed approach procedure.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Y RWY23



MISSED APPROACH

At MAPt, turn left climb to 4500FT via HME R177 to UTIBO via URAGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

HME

MAPt

DOME(FAF)
DARKS(IF)

MDA

277°
1800

4.9

7.9

9.9

3.4

6.4

8.4

MINIMA THR elev. 55 AD elev. 21

CAT MDA(H) VIS

A 1000 (979) 6000

B

C

D

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

CHANGE : PROC course.

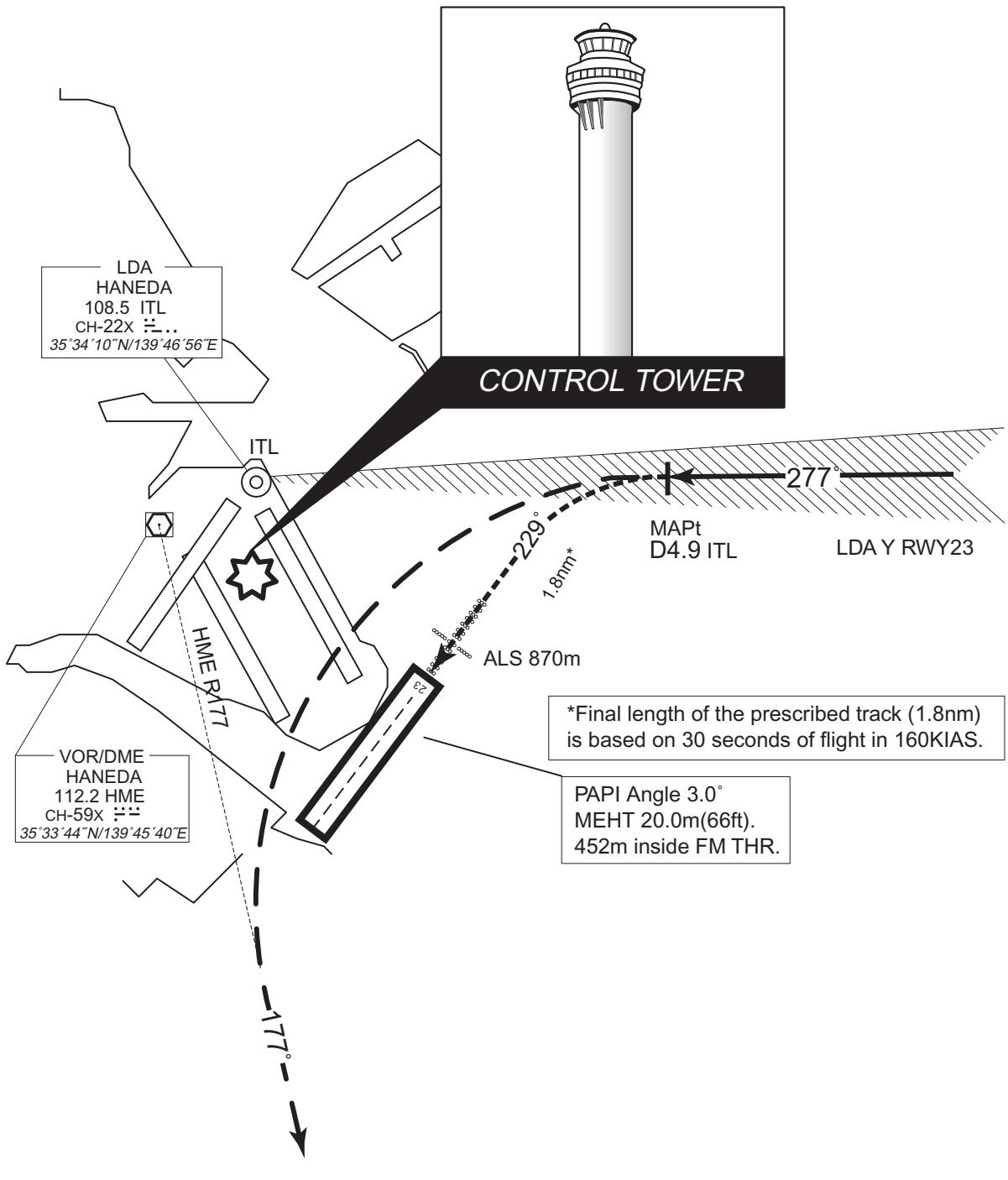
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Y RWY23

Visual Prescribed Track for LDA Y RWY23

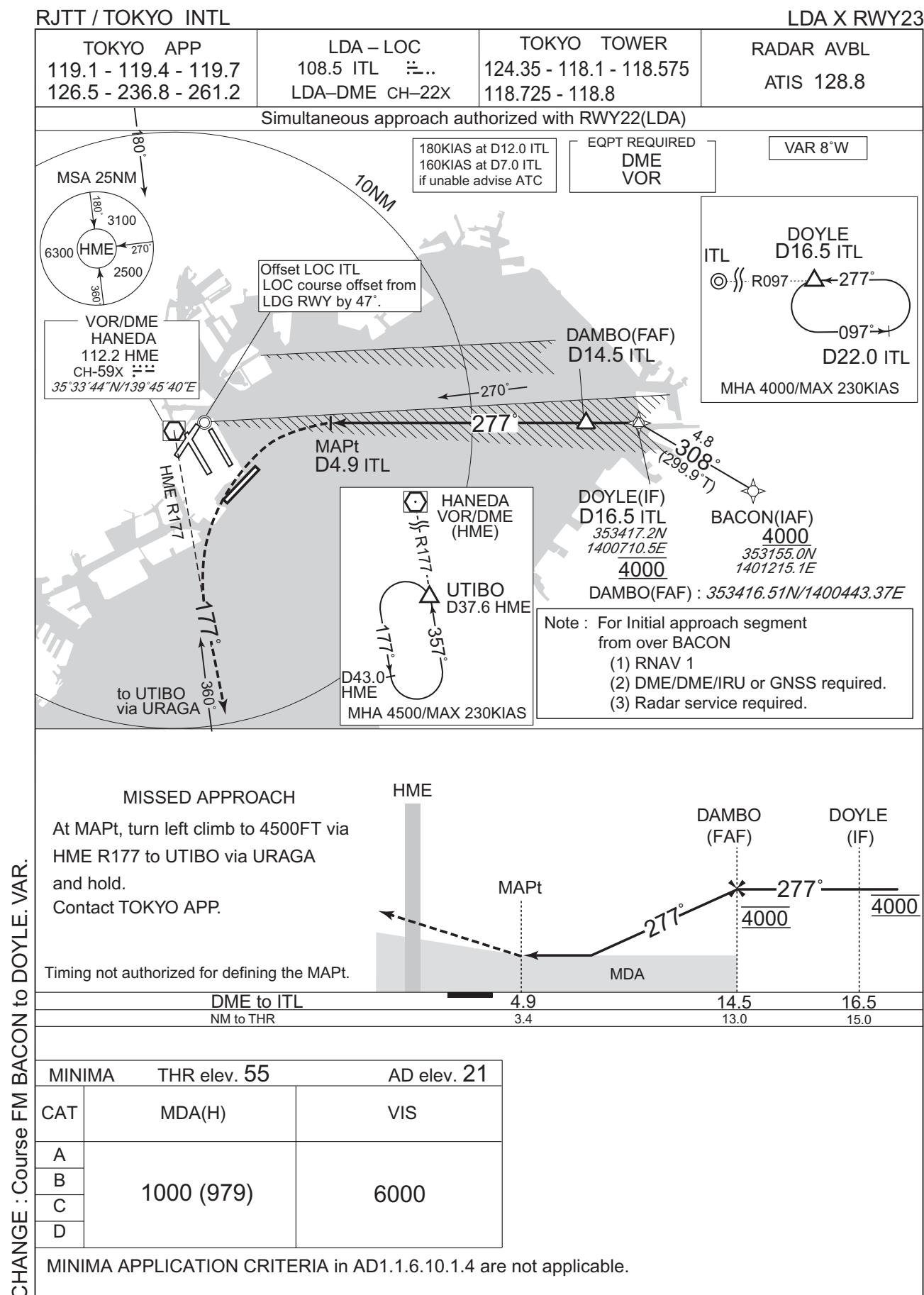
Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.



In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn left HDG 229° for joining HME R177 and missed approach procedure.

INSTRUMENT APPROACH CHART



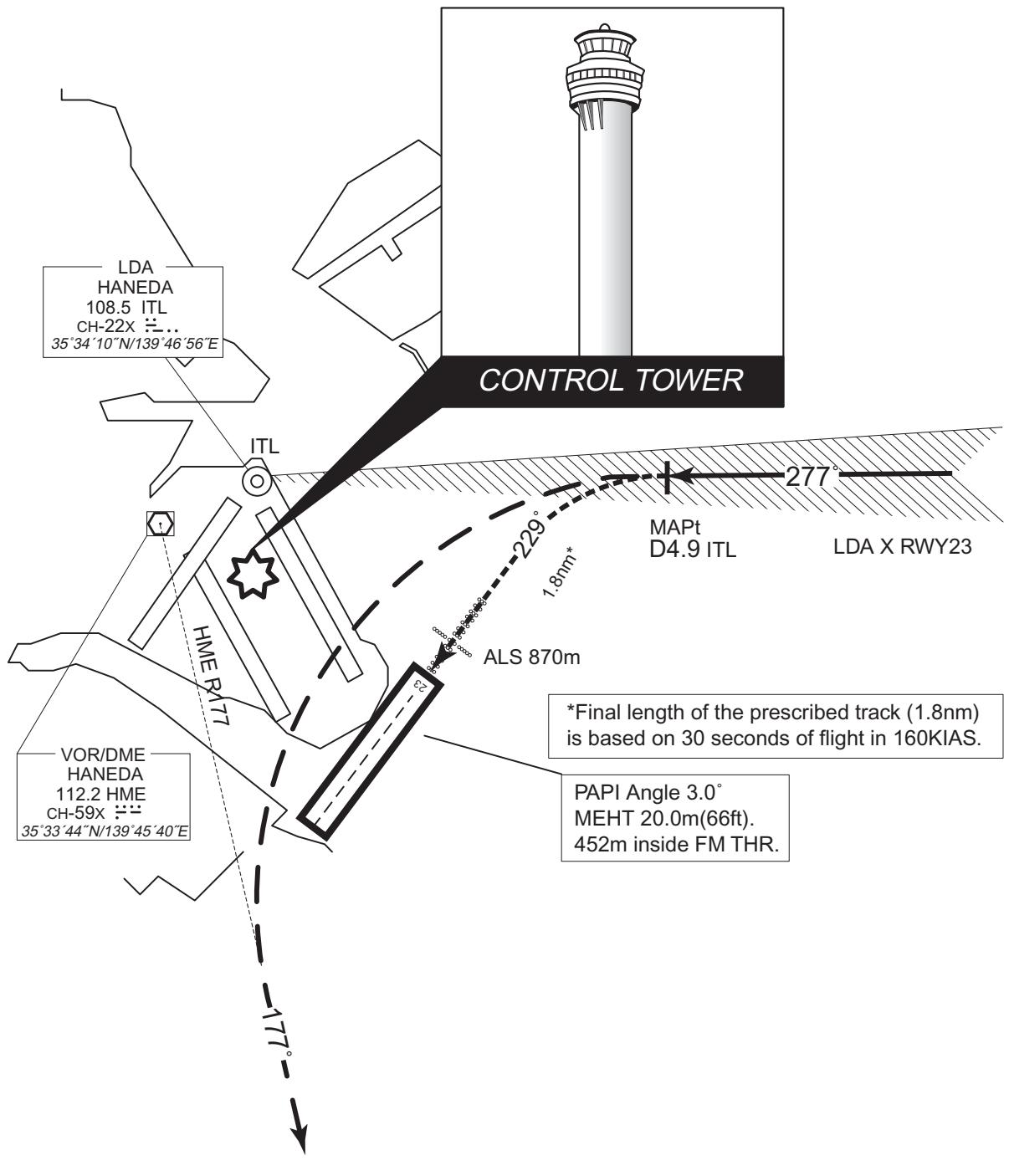
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA X RWY23

Visual Prescribed Track for LDA X RWY23

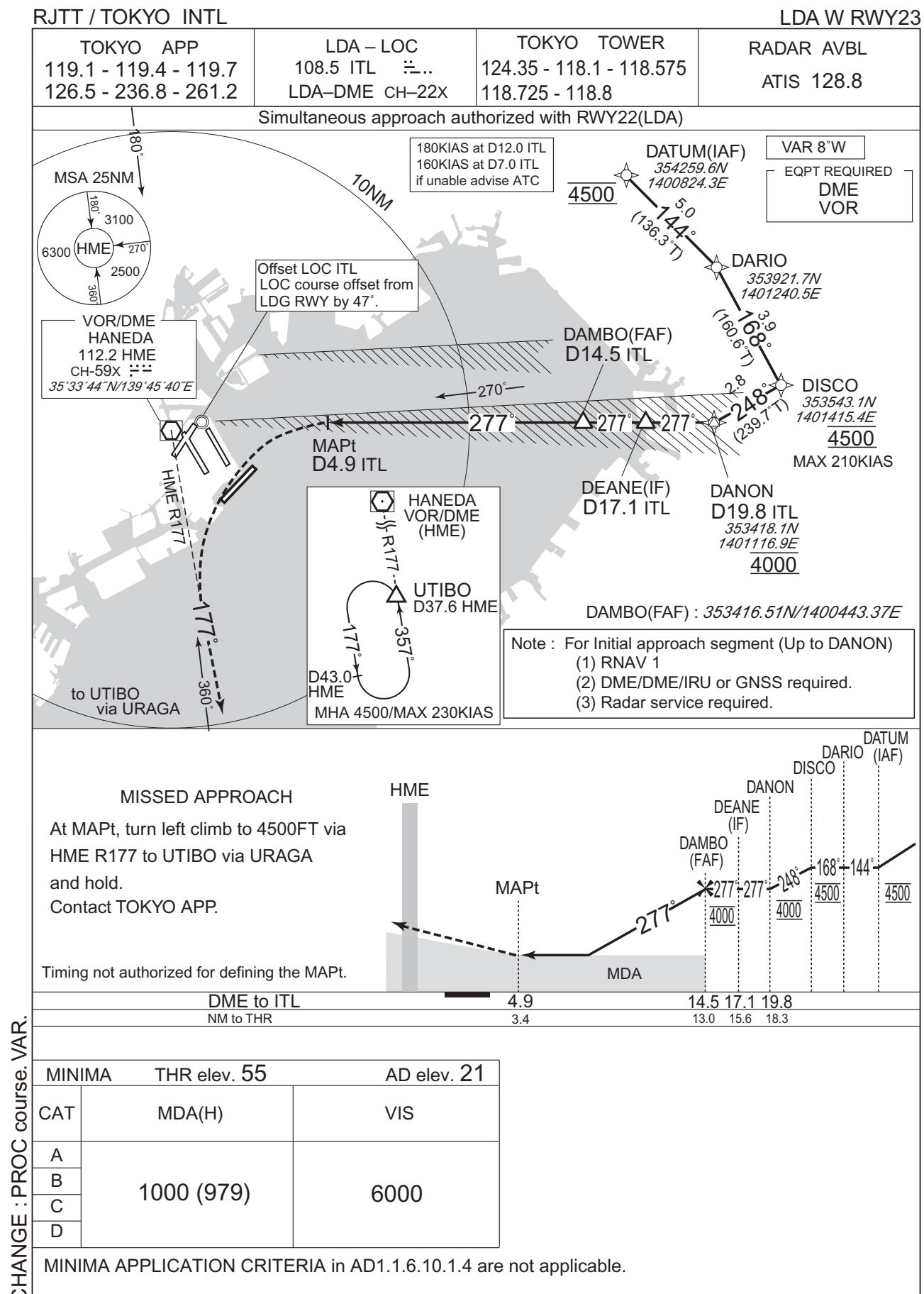
Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.



In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn left HDG 229° for joining HME R177 and missed approach procedure.

INSTRUMENT APPROACH CHART



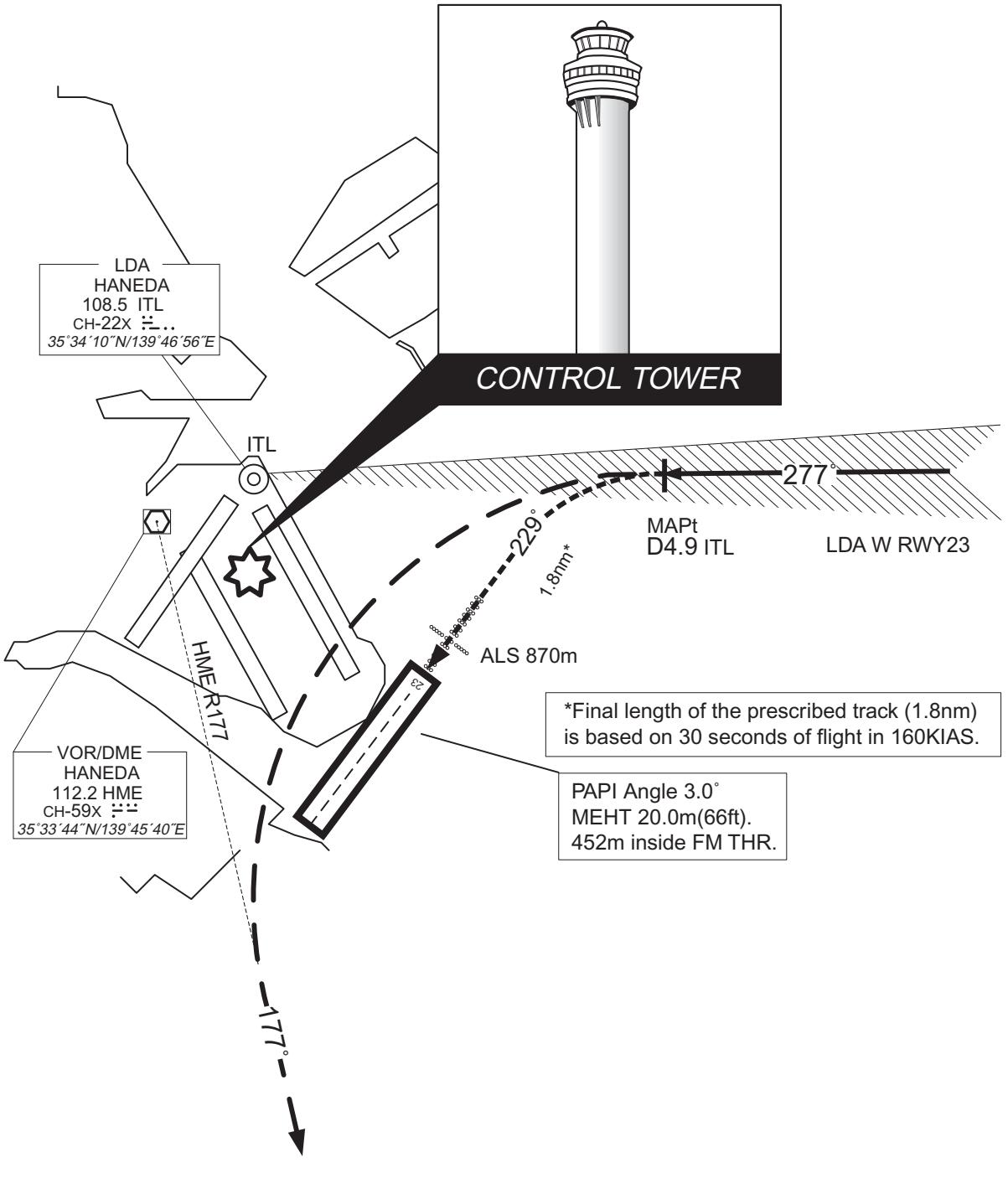
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY23

Visual Prescribed Track for LDA W RWY23

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

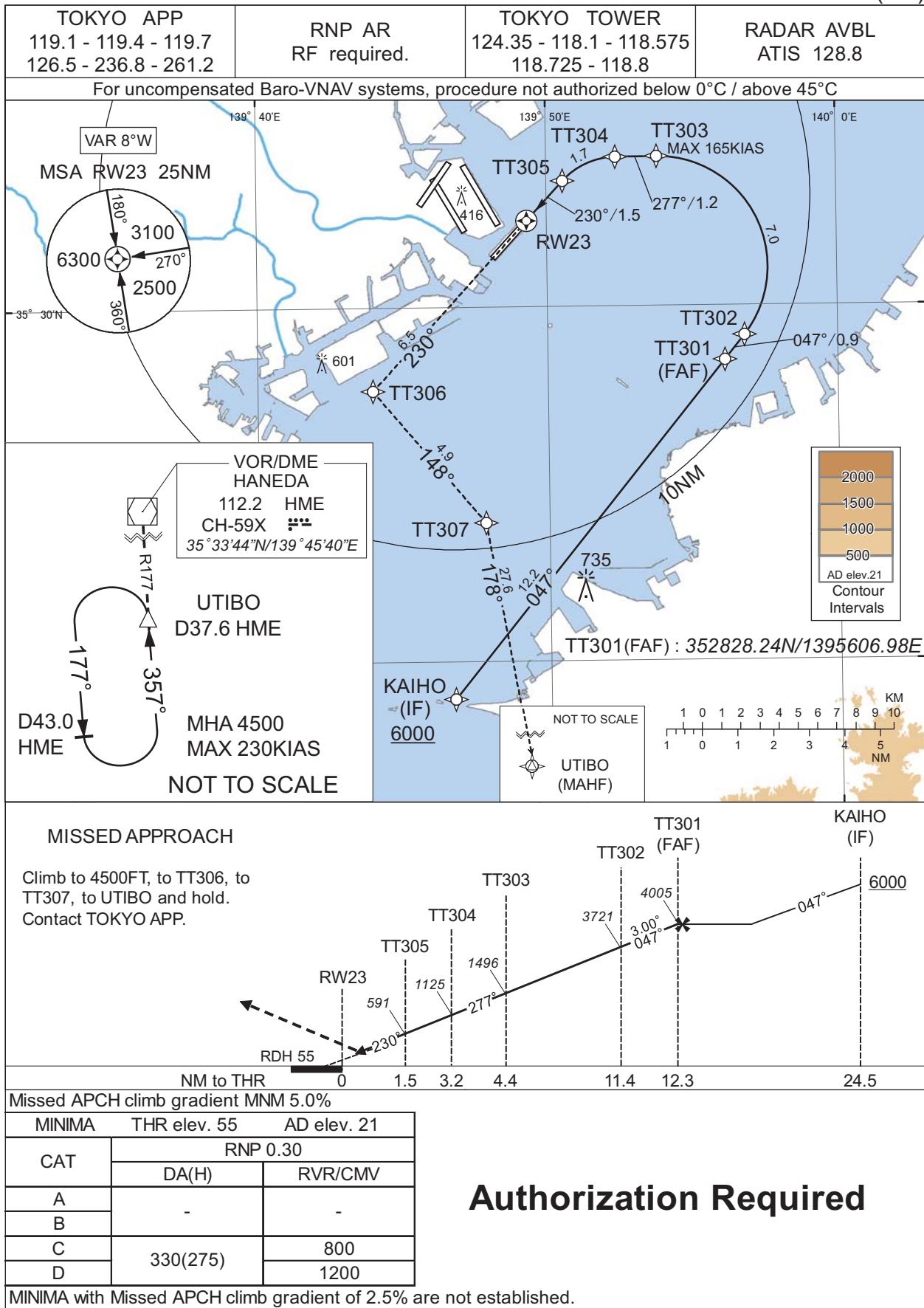


In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn left HDG 229° for joining HME R177 and missed approach procedure.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL



Authorization Required

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNP RWY23(AR)

Coding Table

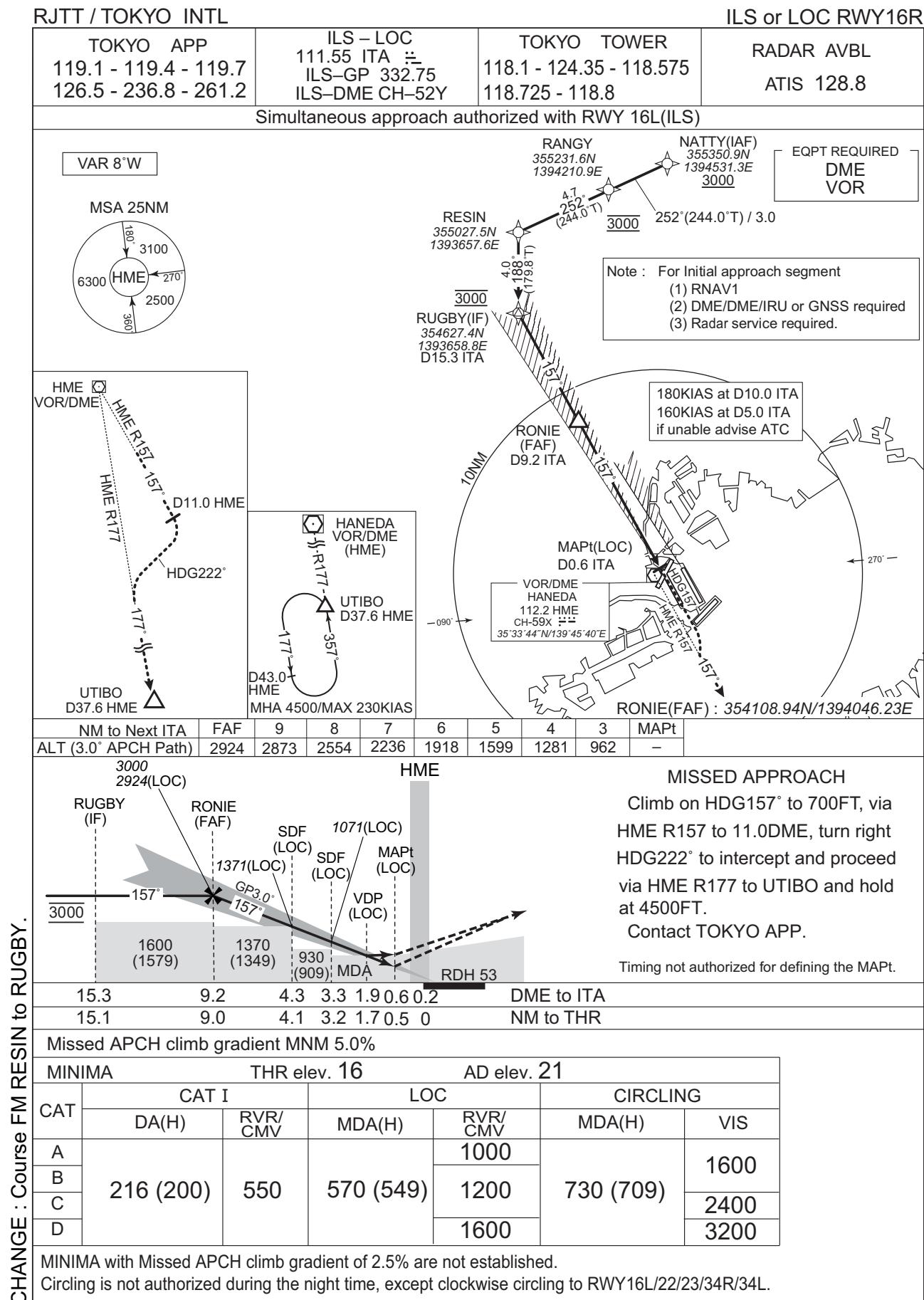
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value |
|---------------|---------------------------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|-----------------|-----------|
| 001 | IF | KAIHO | - | - | -7.9 | - | - | +6000 | - | - | - |
| 002 | TF | TT301 | - | 047 (038.9) | -7.9 | 12.2 | - | 4005 | - | - | 1.0 |
| 003 | TF | TT302 | - | 047 (038.7) | -7.9 | 0.9 | - | 3721 | - | -3.00 | 0.3 |
| 004 | RF Center: TTRF1 r=3.10NM | TT303 | - | - | -7.9 | 7.0 | L | 1496 | -165 | -3.00 | 0.3 |
| 005 | TF | TT304 | - | 277 (269.6) | -7.9 | 1.2 | - | 1125 | - | -3.00 | 0.3 |
| 006 | RF Center: TTRF2 r=2.00NM | TT305 | - | - | -7.9 | 1.7 | L | 591 | - | -3.00 | 0.3 |
| 007 | TF | RW23 | Y | 230 (222.5) | -7.9 | 1.5 | - | 110 | - | -3.00/55 | 0.3 |
| 008 | TF | TT306 | - | 230 (222.5) | -7.9 | 6.5 | - | - | - | - | 1.0 |
| 009 | TF | TT307 | - | 148 (139.9) | -7.9 | 4.9 | - | - | - | - | 1.0 |
| 010 | TF | UTIBO | - | 178 (169.9) | -7.9 | 27.6 | - | 4500 | - | - | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| KAIHO | 351857.83N / 1394642.43E | TTRF1 | 353106.44N / 1395349.88E |
| TT301 | 352828.24N / 1395606.98E | TTRF2 | 353212.62N / 1395225.48E |
| TT302 | 352909.99N / 1395647.99E | | |
| TT303 | 353413.28N / 1395350.00E | | |
| TT304 | 353412.77N / 1395224.45E | | |
| TT305 | 353332.98N / 1395034.74E | | |
| RW23 | 353226.15N / 1394919.61E | | |
| TT306 | 352740.05N / 1394357.98E | | |
| TT307 | 352356.01N / 1394749.03E | | |
| UTIBO | 345647.02N / 1395343.90E | | |

CHANGE : PROC course. VAR. ALT. RDH.

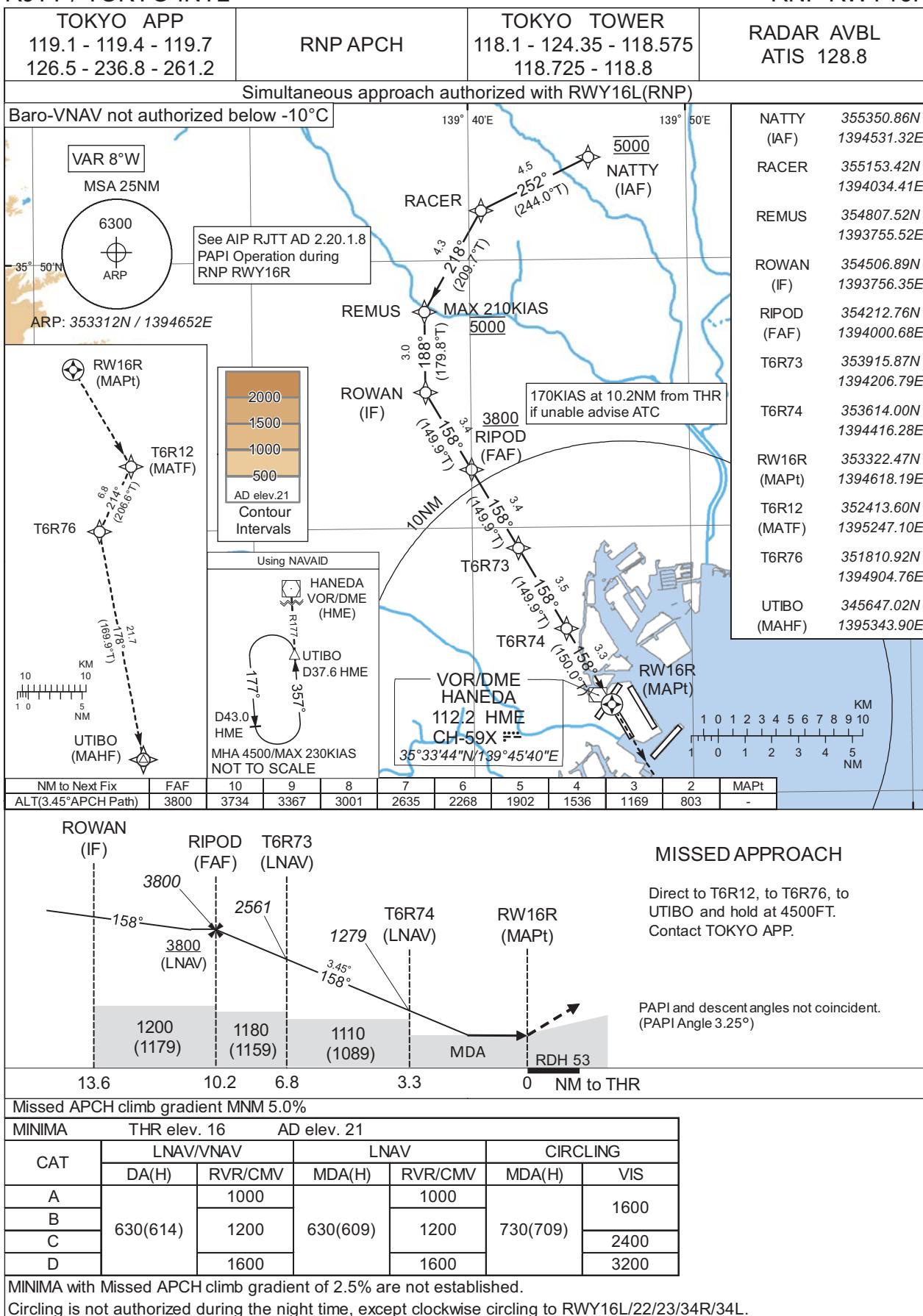
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNP RWY16R

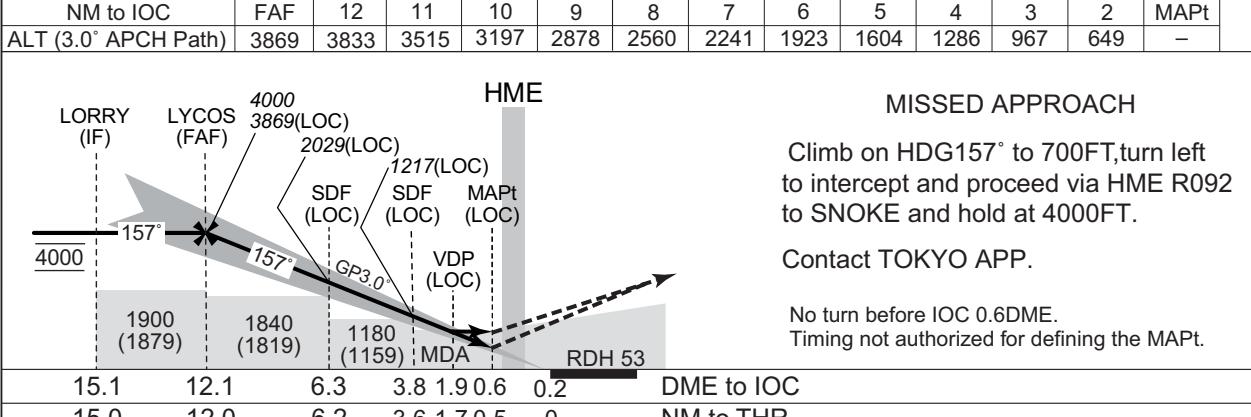
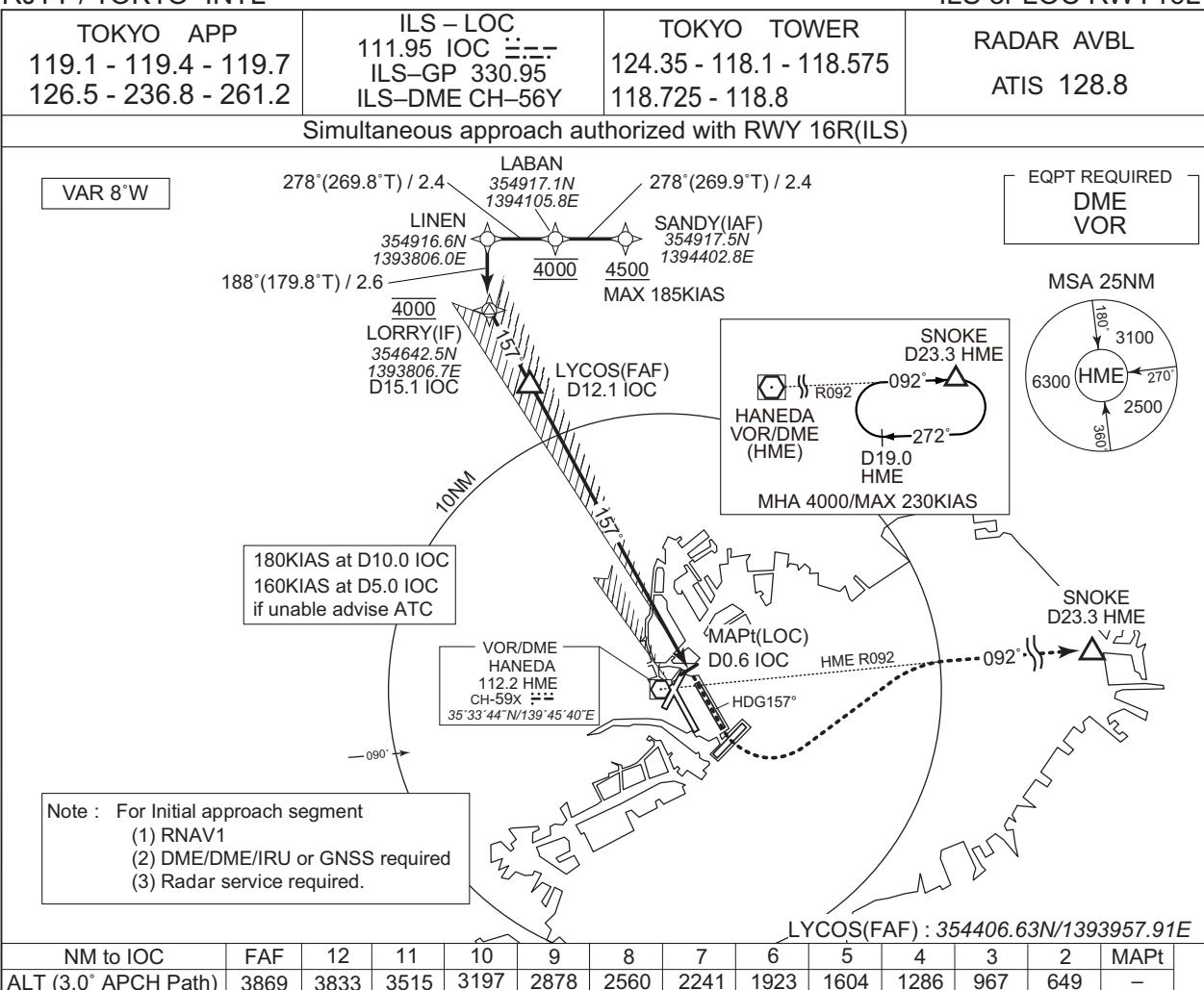


CHANGE : PROC course.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS or LOC RWY16L



Missed APCH climb gradient MNM 5.0%

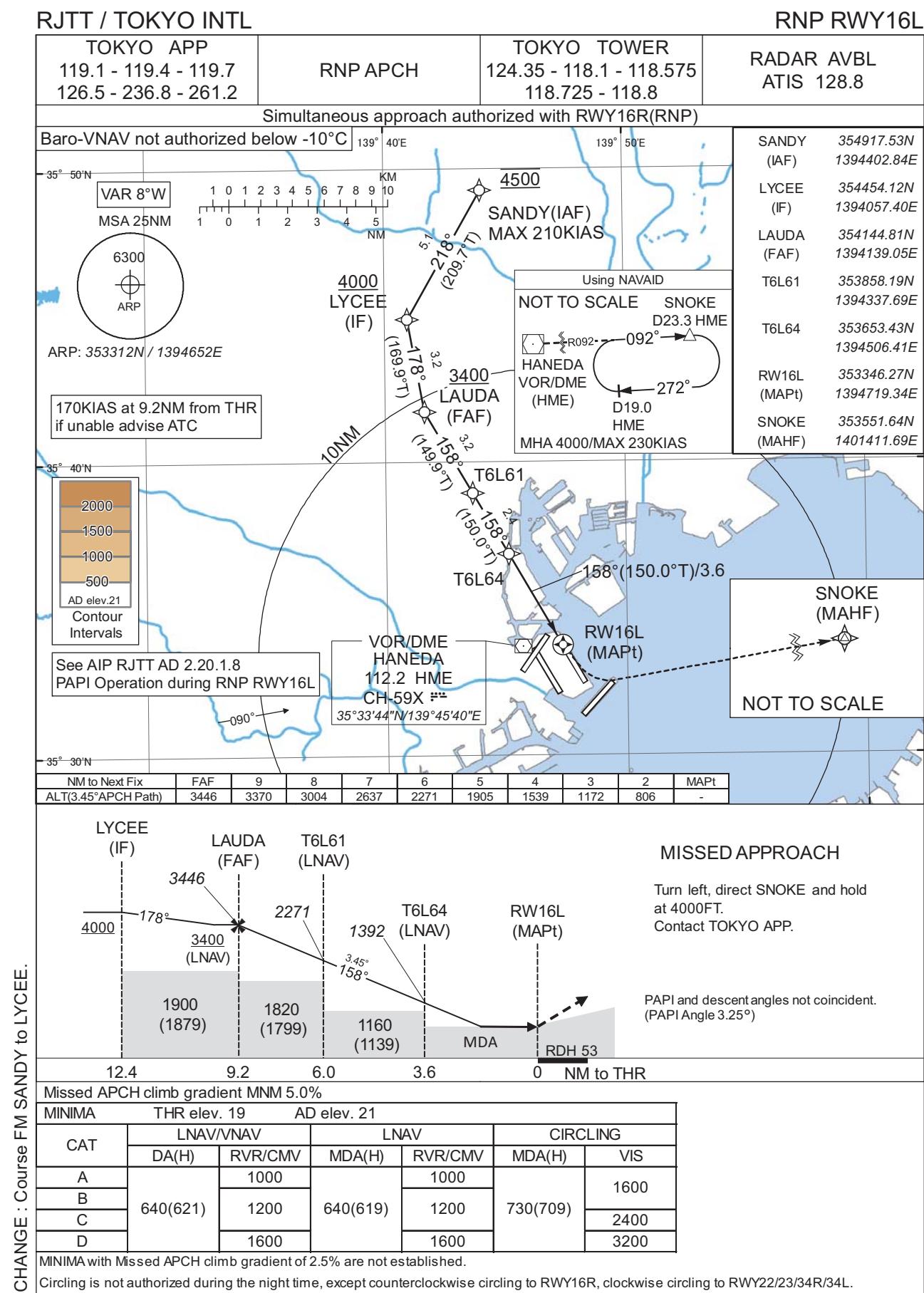
| MINIMA | | THR elev. 19 | | AD elev. 21 | | |
|--------|-----------|--------------|-----------|-------------|-----------|------|
| CAT | CAT I | | LOC | | CIRCLING | |
| | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | | | | 1000 | | |
| B | 219 (200) | 550 | 590 (569) | 1200 | 730 (709) | 1600 |
| C | | | | | | 2400 |
| D | | | | 1600 | | 3200 |

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

Circling is not authorized during the night time, except counterclockwise circling to RWY16R, clockwise circling to 22/23/34R/34L.

CHANGE : PROC course.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

TOKYO APP
119.1 - 119.4 - 119.7
126.5 - 236.8 - 261.2

HANEDA VOR/DME
112.2 HME
CH-59X ::::
35°33'44"N/139°45'40"E

TOKYO TOWER
124.35 - 118.1 - 118.575
118.725 - 118.8

RADAR AVBL
ATIS 128.8

VAR 8°W

EQPT REQUIRED
DME

CAUTION

BE ALERT TO RUNWAY MISUNDERSTANDING.

See LDG CHART

APPROACH GUIDANCE LIGHTS FOR RUNWAY 16R/16L

VOR/DME
HANEDA
112.2 HME
CH-59X ::::
35°33'44"N/139°45'40"E


R177
HME
UTIBO D37.6 HME
D43.0 HME
MHA 4500/MAX 230KIAS

MAPt D2.8 HME

SAZAN(FAF)
D5.9 HME

DARKS(IF)
D10.9 HME

MHA 1800
MAX 230KIAS
D17.0 HME

MSA 25NM

3100
6300 HME
2500
360°

SAZAN(FAF) : 353401.06N/1395255.49E

MISSED APPROACH

Turn left, climb to 4500FT via HME
R177 to UTIBO via URAGA
and hold.
Contact TOKYO APP.

HME

MAPt

SAZAN
(FAF)

DARKS
(IF)

Timing not authorized for defining the MAPt.
No turn before MAPt.

MAPt

MDA

1100
(1079)

1800

2.8

5.9

10.9

DME to HME

MINIMA

AD elev. 21

CAT

CIRCLING

MDA(H)

VIS

A

1600

B

760 (739)

C

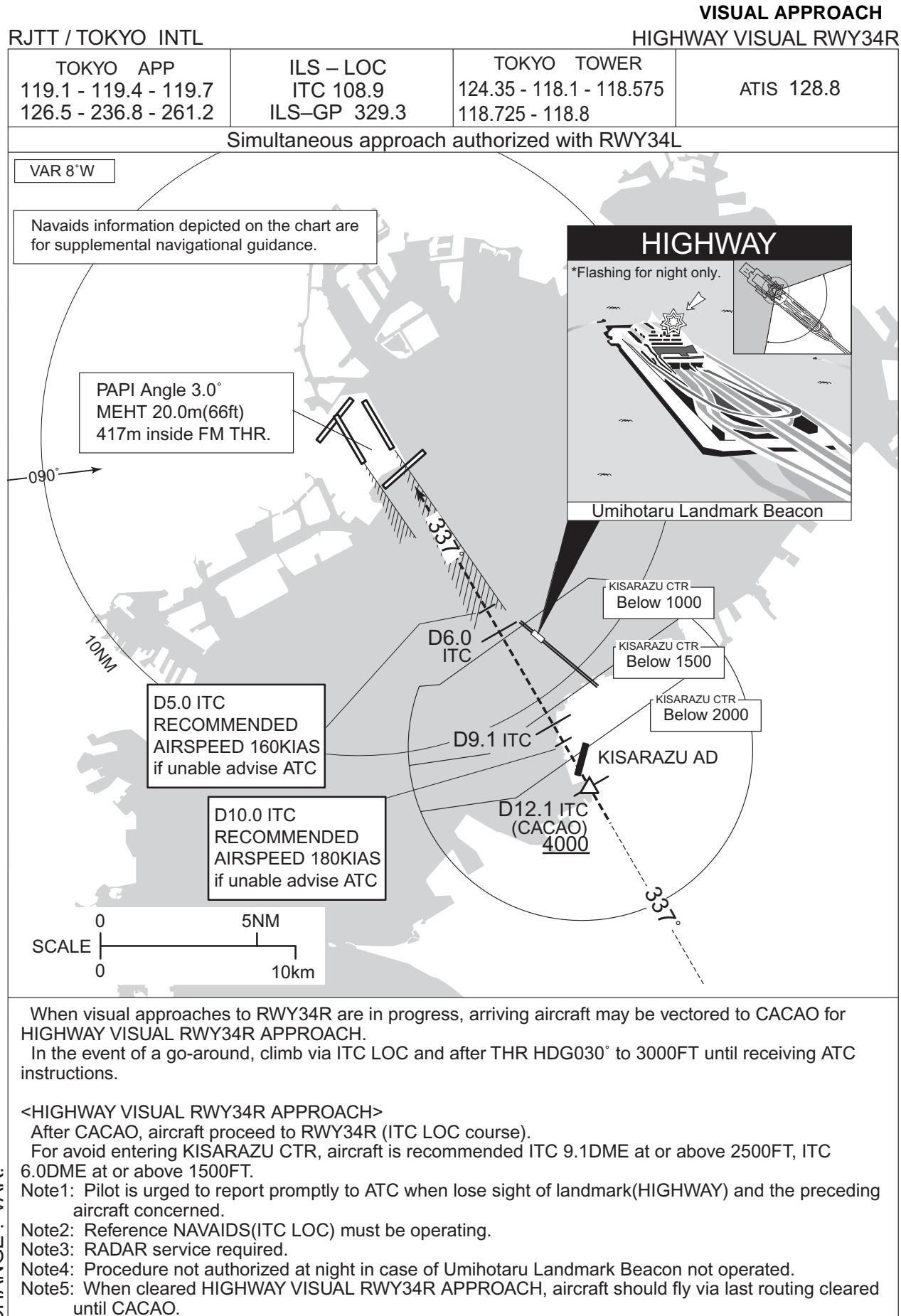
2400

D

3200

CHANGE : VAR.

INTENTIONALLY LEFT BLANK



CHANGE : VAR.

RJTT / TOKYO INTL

HLDG PATTERN

RJTT / TOKYO INTL

RNAV HLDG PATTERN

| | | |
|---|-------------------------|--|
| Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. | | RNAV 1 |
| 1. Outbound Time / Distance 2. Speed → See Tabular Description. | | |
| ARLON MHA 4000 | BACON MHA 4000 | <p>The map displays the RNAV HLDG PATTERN for Tokyo International Airport (RJTT). It shows the locations of various MHA waypoints and their headings. Key waypoints include:</p> <ul style="list-style-type: none"> SEKIYADO: VOR/DME, CH-117X, 36°00'39"N/139°50'21"E, 100FT. Headings: 084°, 264°. HANEDA: VOR/DME, CH-59X, 35°33'44"N/139°45'40"E, 100FT. Headings: 084°, 264°. NOVEL: MHA 5000. Heading: 084°. GODIN: MHA 8000. Heading: 017°. POLIX: MHA 11000. Heading: 310°. DREAD, SCREW, NEURO, SNARE, SPINE, NYLON, COACH, BACON, KAIHO, CREAM, ARLON, MESSE, WEDGE, STING, ANZAC, AKSEL, AVEEY, NYLON, SNARE, SPINE: Various MHA waypoints with their respective headings. |
| COACH MHA 4000 | CREAM MHA 4000 | |
| DREAD MHA 5000 | MESSE MHA 6000 | |
| SCREW MHA 4000 | STING MHA 4000 | |
| NUMAN MHA 4000 | OSHIMA(XAC) MHA 5000 | |
| NEURO MHA 4000 | | |

CHANGE : HLDG pattern at DENNY, COACH, MESSE, STING, CIVIC, ANZAC, NEURO, NYLON.

RJTT / TOKYO INTL

RNAV HLDG PATTERN

| Path | Waypoint Identifier | Inbound Course °M(T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 069 (060.8) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | AVEEY | 314 (306.1) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 346 (337.7) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 186 (177.8) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 8000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DENNY | 168 (159.9) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DREAD | 191 (183.1) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | GODIN | 197 (189.2) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 8000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | MESSE | 247 (238.8) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 6000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 291 (282.9) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NUMAN | 360 (352.5) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 358 (350.0) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | POLIX | 310 (302.3) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 11000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SCREW | 203 (195.2) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SPINE | 348 (340.6) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 068 (059.6) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.9 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | XAC | 098 (090.3) | -7.9 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC course. VAR.

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RNAV HLDG PATTERN

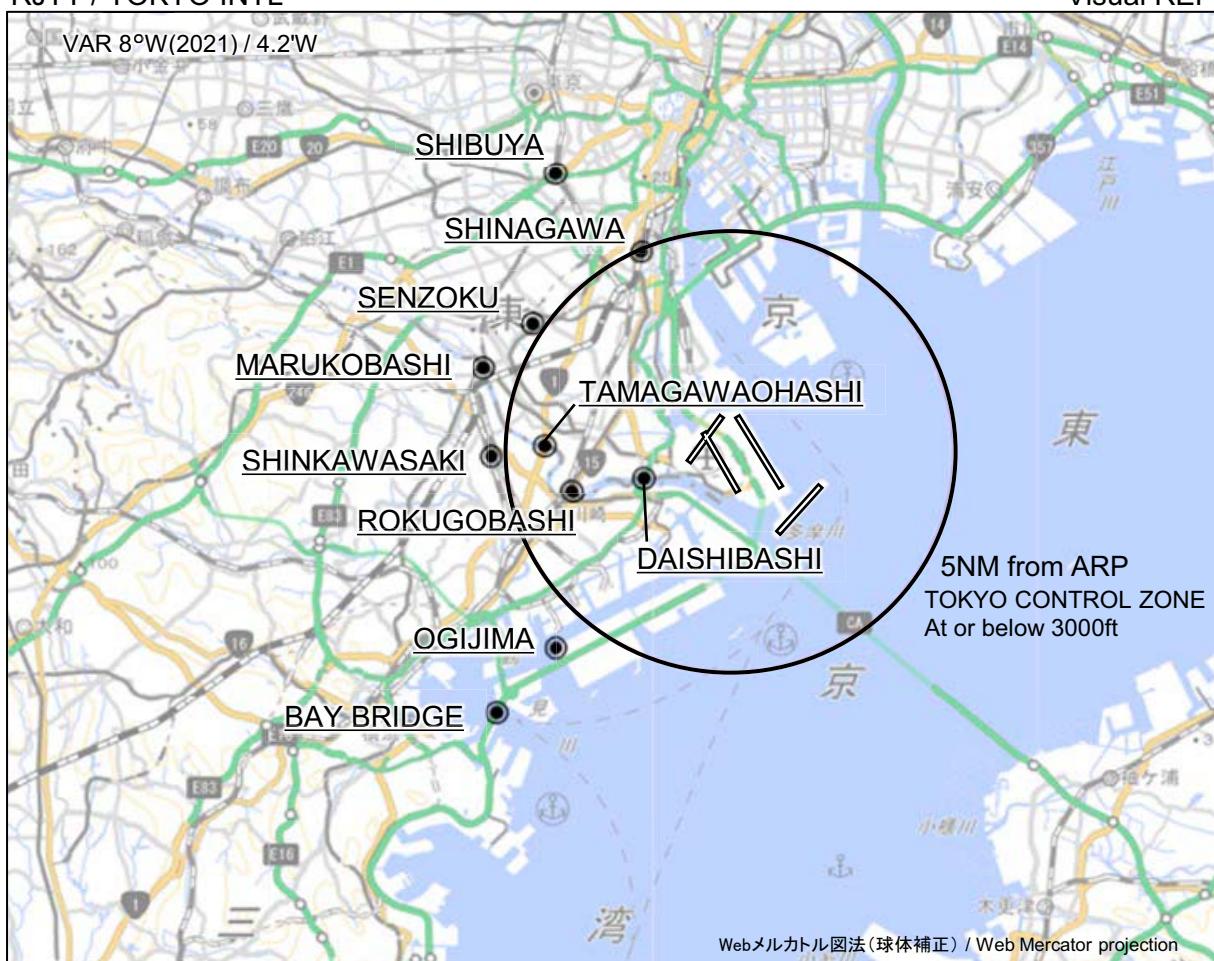
Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AKSEL | 344039.5N / 1395126.9E | MESSE | 351100.8N / 1402214.7E |
| ANZAC | 345028.8N / 1394146.7E | NEURO | 355727.6N / 1395441.3E |
| ARLON | 351525.3N / 1395859.8E | NOVEL | 362106.9N / 1400004.9E |
| AVEEY | 344155.9N / 1402158.0E | NUMAN | 354714.4N / 1401204.9E |
| BACON | 353155.0N / 1401215.1E | NYLON | 354018.5N / 1400919.9E |
| CIVIC | 350840.6N / 1402552.1E | POLIX | 361237.1N / 1402622.5E |
| COACH | 353736.0N / 1401231.5E | SCREW | 360301.2N / 1395400.4E |
| COLOR | 360116.3N / 1401219.8E | SHAFT | 352227.4N / 1401313.3E |
| CREAM | 351743.4N / 1400612.4E | SNARE | 354731.1N / 1395238.1E |
| DENNY | 354828.8N / 1400556.4E | SPINE | 354213.5N / 1401125.8E |
| DREAD | 360359.2N / 1395856.9E | STING | 345157.9N / 1401453.4E |
| GODIN | 362425.3N / 1401655.9E | WEDGE | 350900.4N / 1395846.5E |
| KAIHO | 351857.8N / 1394642.4E | XAC | 344244.1N / 1392450.5E |

CHANGE : ACORN abolished. ANZAC established.

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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).

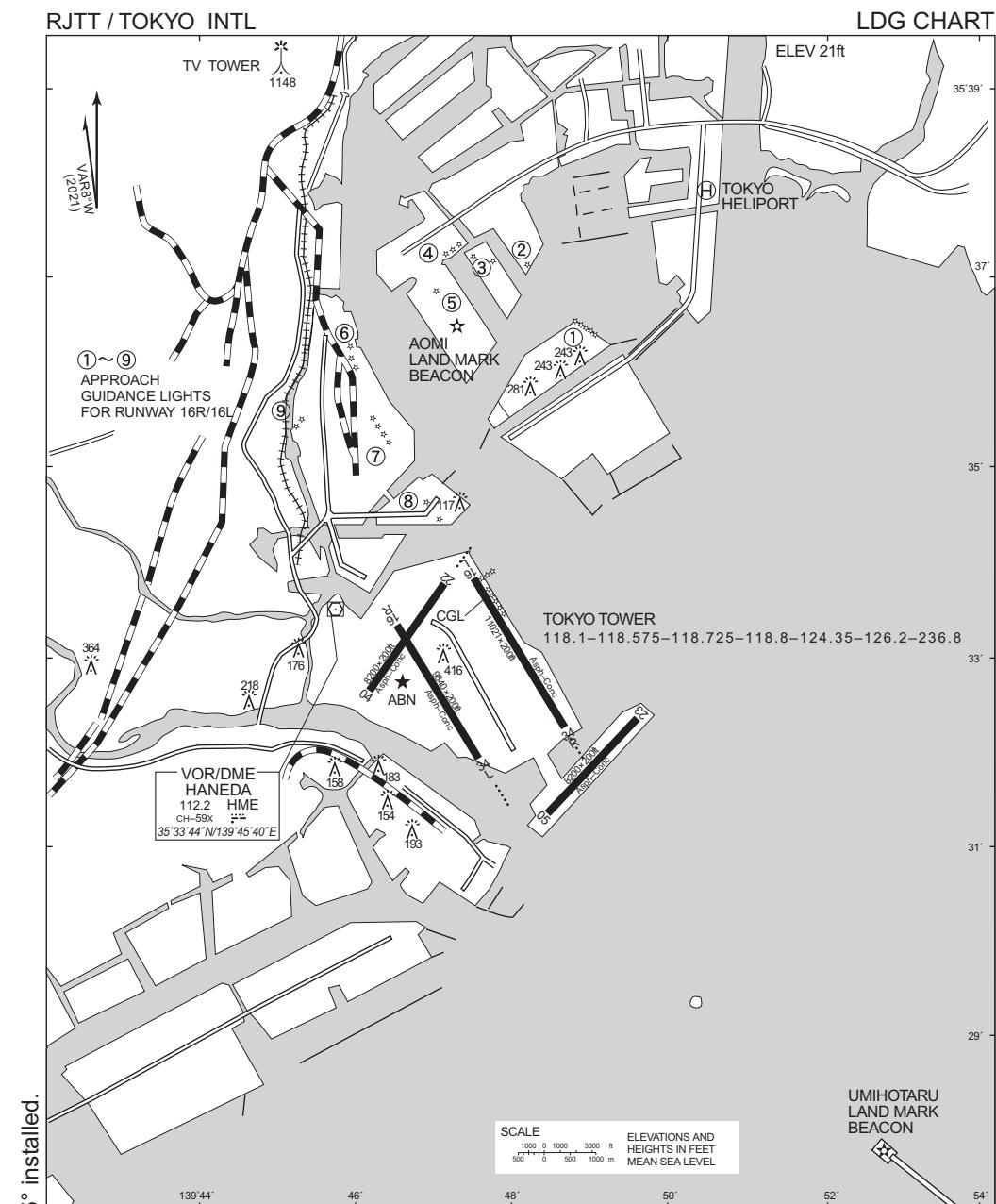
| Call sign | BRG / DIST from ARP | Remarks |
|-------------------------|---------------------|----------------------------------|
| 渋谷 Shibuya | 328°T / 7.4NM | JR駅 JR Station |
| 品川 Shinagawa | 336°T / 5.0NM | JR駅 JR Station |
| 洗足 Senzoku | 303°T / 5.3NM | 池 Pond |
| 丸子橋 Marukobashi | 289°T / 5.8NM | 橋 Bridge |
| 多摩川大橋 Tamagawaohashi | 272°T / 4.2NM | 橋 Bridge |
| 新川崎 Shinkawasaki | 269°T / 5.4NM | JR駅 JR Station |
| 大師橋 Daishibashi | 253°T / 2.0NM | 橋 Bridge |
| 六郷橋 Rokugobashi | 255°T / 3.7NM | 橋 Bridge |
| 扇島 Ogijima | 221°T / 5.9NM | 扇島の西端 West edge of the island |
| ベイブリッジ Bay Bridge | 221°T / 7.9NM | (首都高速湾岸線)橋 Bridge |

CHANGE : VAR.

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Minimum Vectoring Altitude CHART





CHANGE : PAPI RWY16L-3.25°, PAPI RWY16R-3.25° installed.

PAPI:

RWY16L-3.0°,MEHT 19.9m (65ft)

412m inside from THR.

RWY16L-3.25°, MEHT 19.9m(65ft)

378m inside from THR.

RWY34R-3.0°, MEHT 20.0m (66ft)

416m inside from THR.

RWY16R-3.0°, MEHT 19.9m (65ft)

432m inside from THR.

RWY16R-3.25°,MEHT 19.9m(65ft)

397m inside from THR.

RWY34L-3.0°, MEHT 20.0m (66ft)

449m inside from THR.

RWY04-3.0°, MEHT 18.5m (61ft)

369m inside from THR.

RWY22–3.0°, MEHT 19.5m (63ft)

438m inside from THR.

RWY23-3.0°, MEHT 20.0m (66ft)

452m inside from THR.

RWY Grooving :

RWY16L/34R 3360m X 40m

RWY16R/34L 3000m X 40m

RWY04/22 2500m X 40m

RWY05/23 2500m X 40m

Attachment-1

Local flying restriction of Tokyo INTL AP

Unless otherwise authorized by ATC.

Aircraft other than the arriving at and/or departing from Tokyo International Airport are required not to fly over the Kawasaki Petrochemical Complex area, and even in case of flying over the area, not to fly below an altitude of 3,000 feet.

