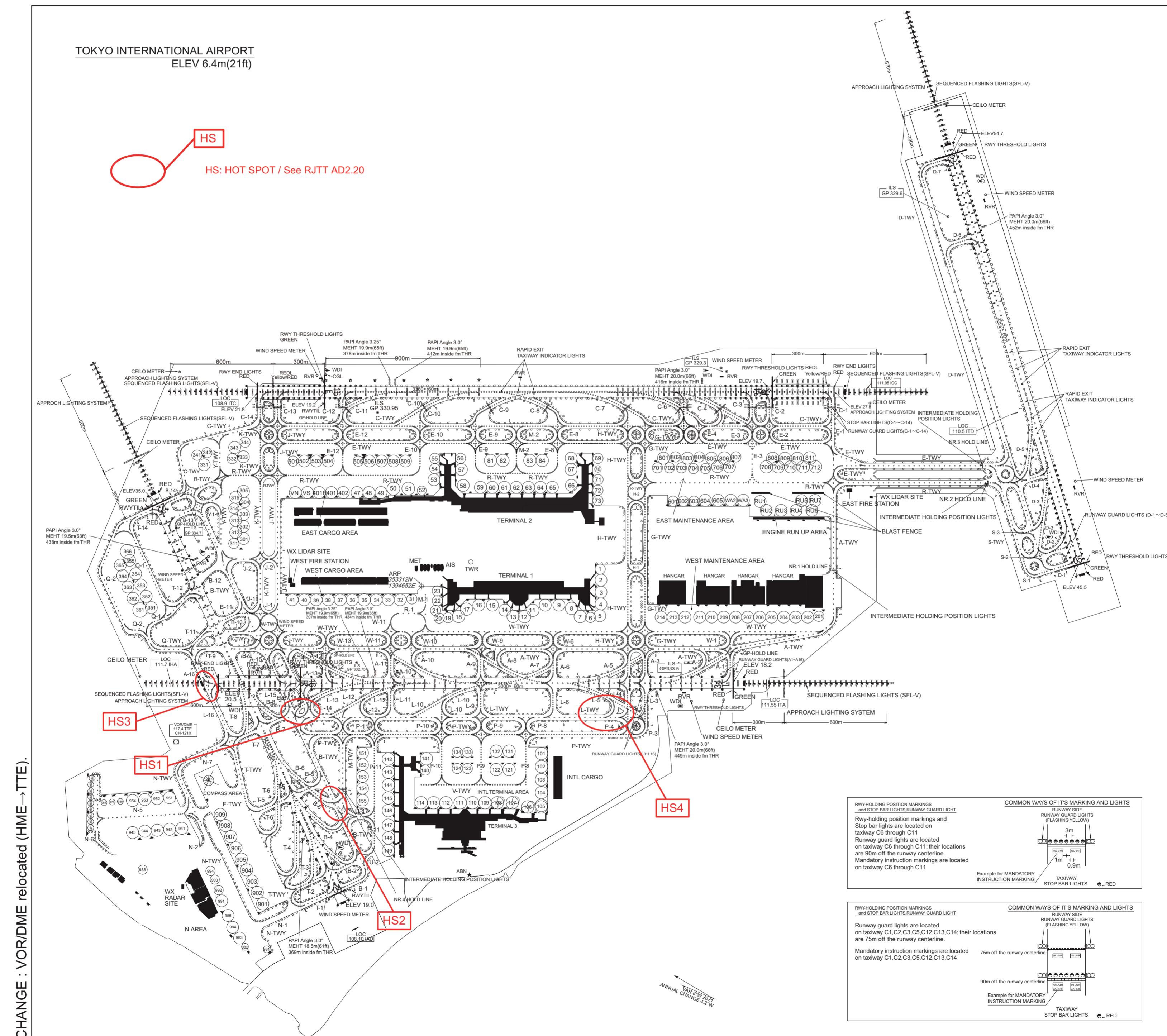


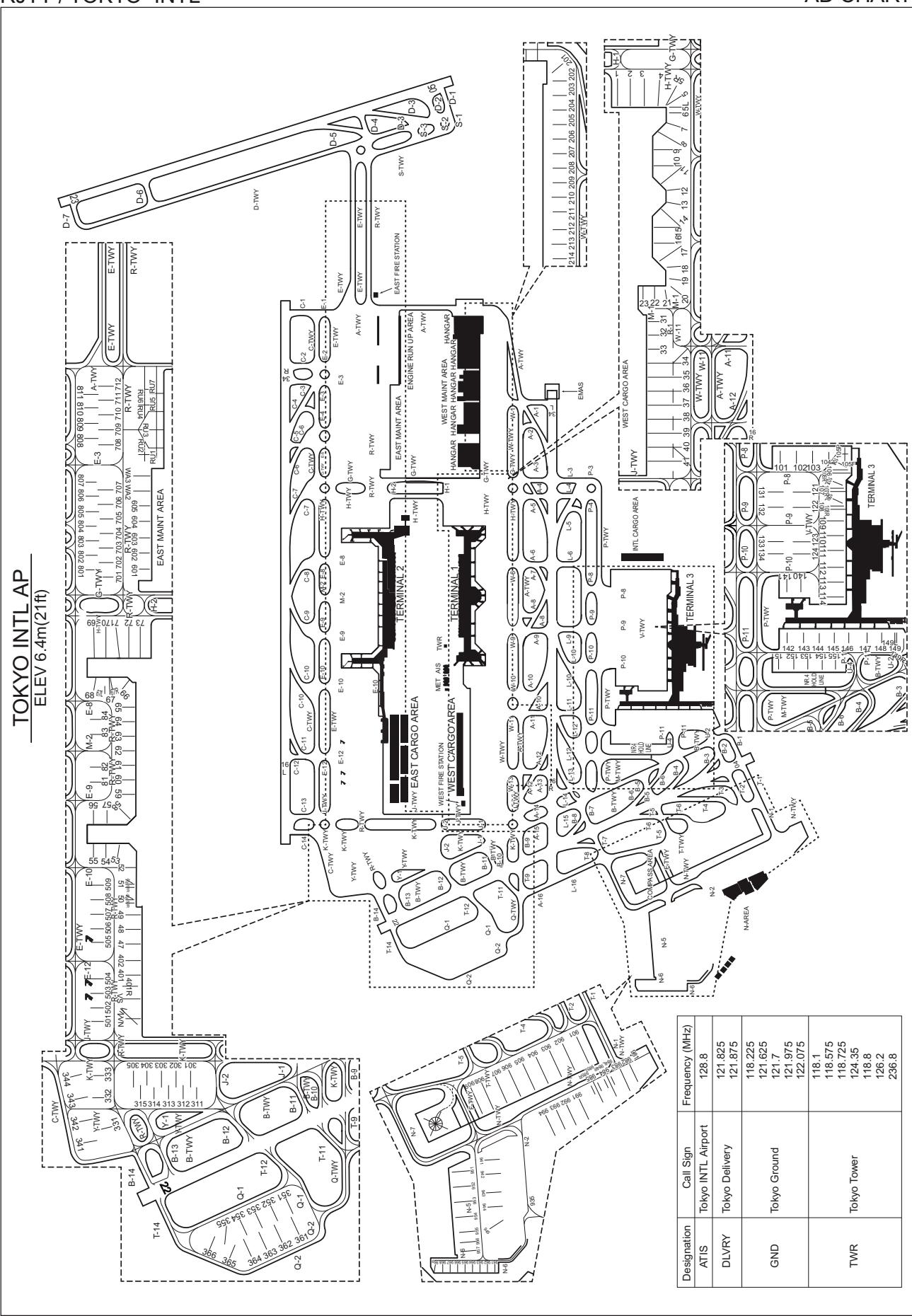
## AERODROME CHART



RJTT / TOKYO INTL

AD CHART

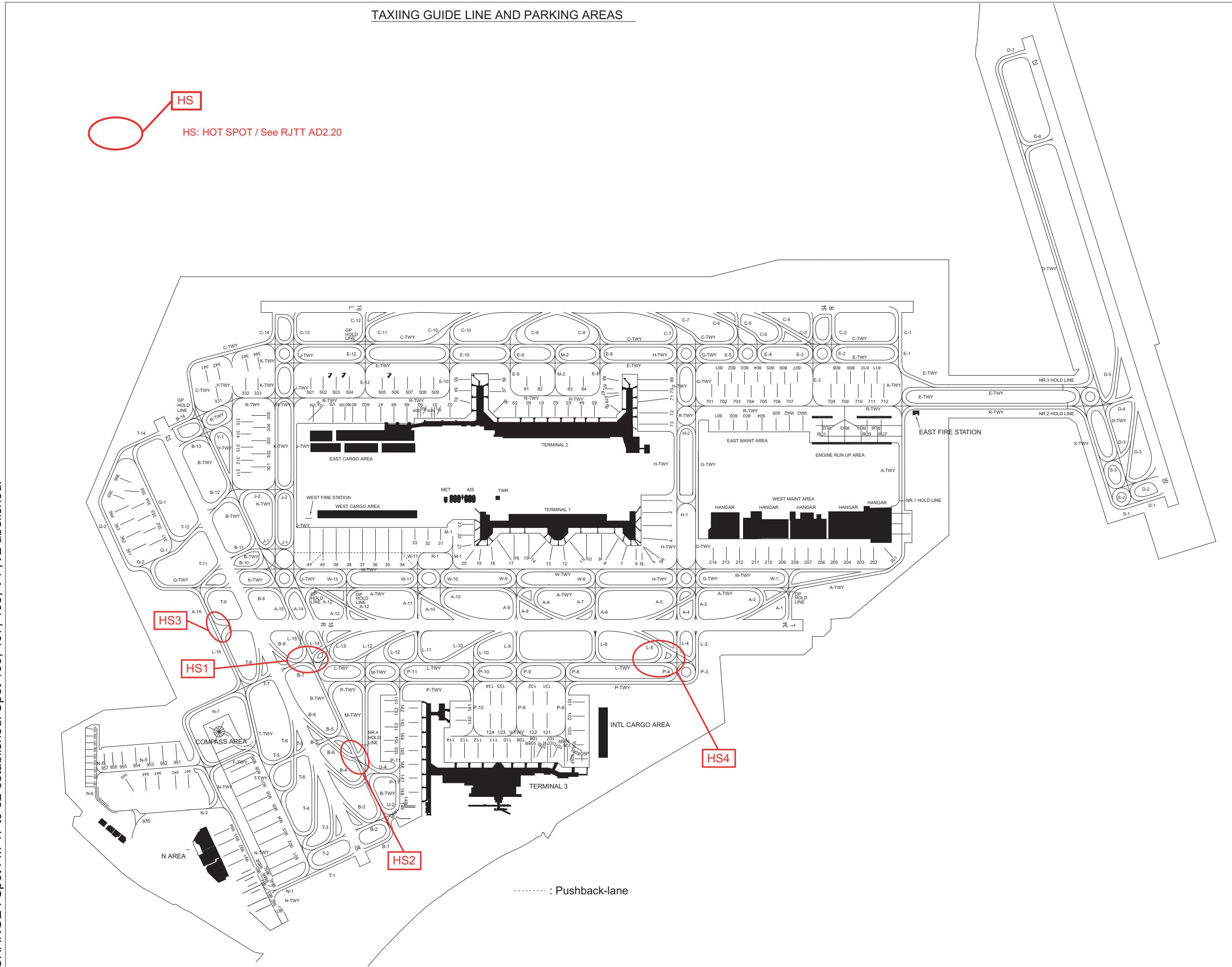
CHANGE : Spot FM 47 to 52 established. Spot 406, 407, 408, V1, V2 abolished.



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**CHANGE :** Spot FM 47 to 52 established. Spot 406, 407, 408, V1, V2 abolished.

#### TAXIING GUIDE LINE AND PARKING AREAS



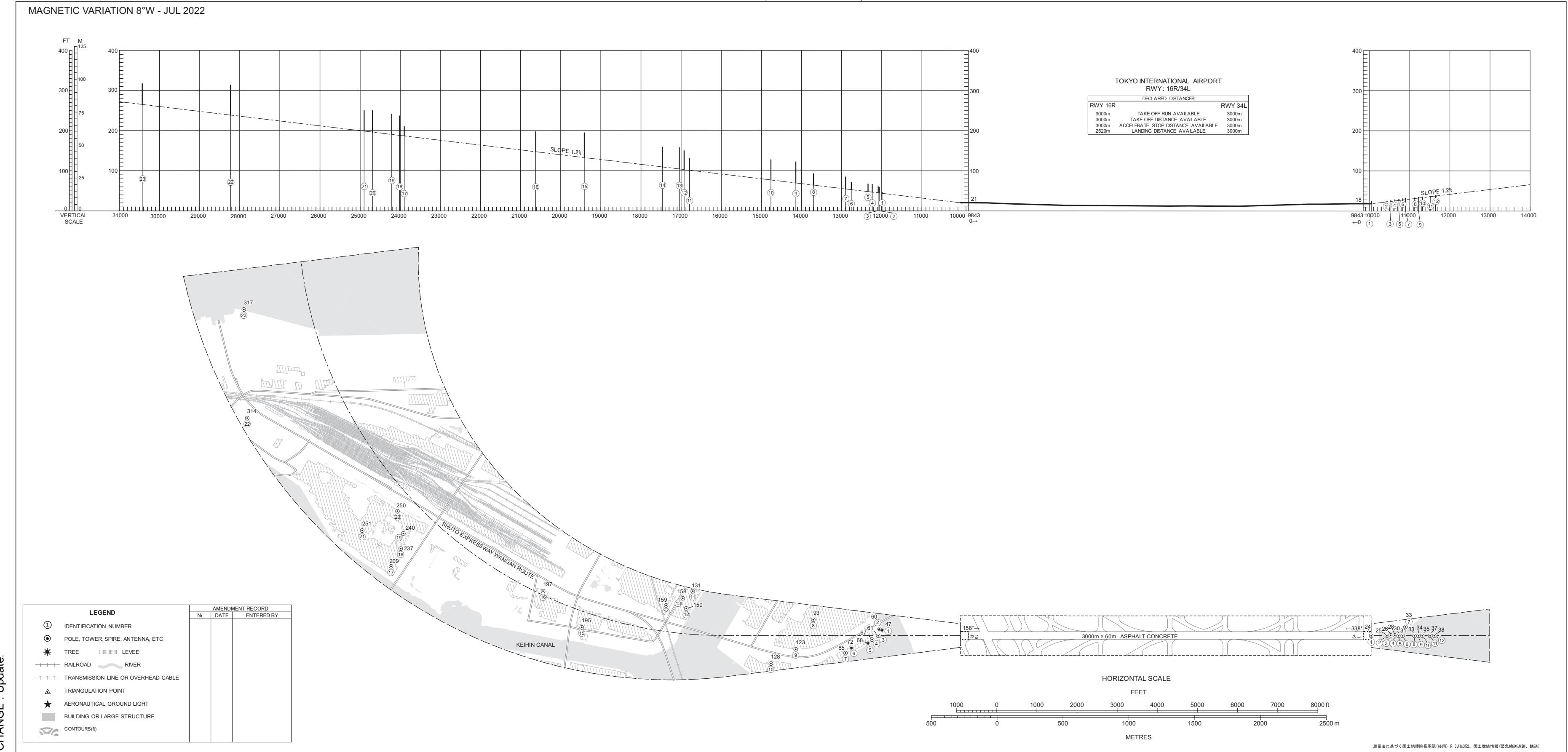
**DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection**

## AERODROME OBSTACLE CHART-ICAO TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION

## MAGNETIC VARIATION

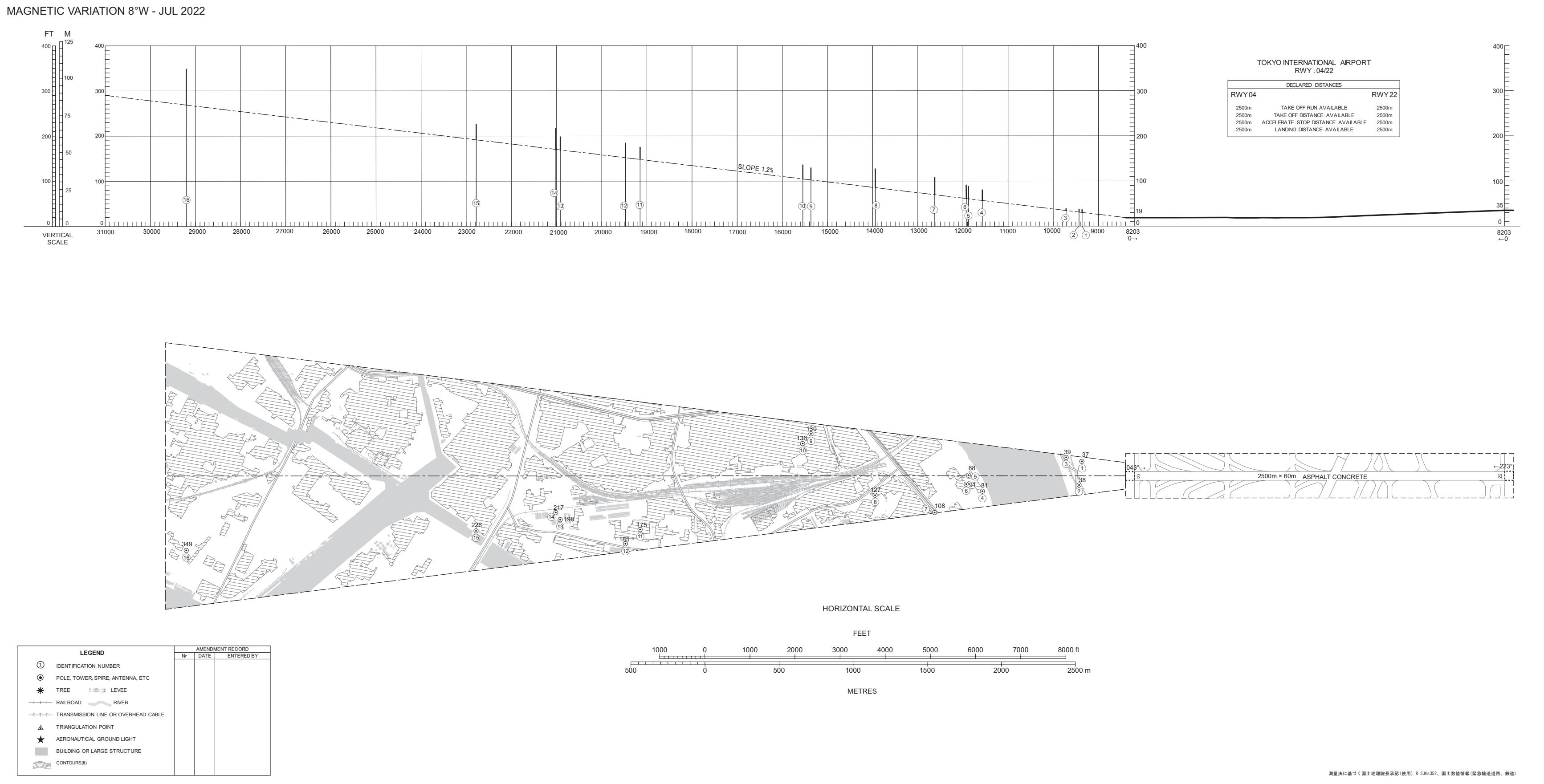
MAGNETIC VARIATION 8°W - JUL 2022



## **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)



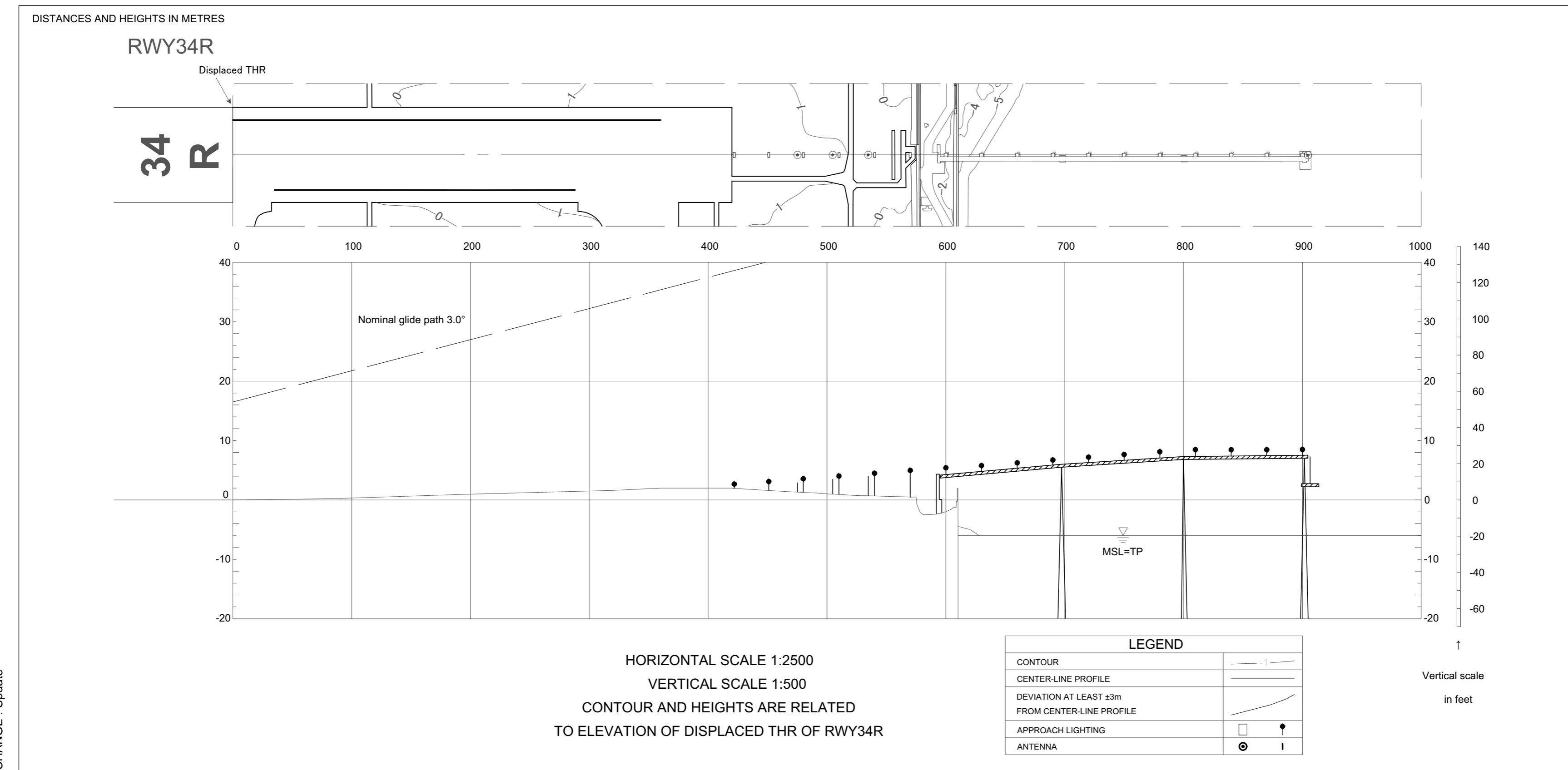
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO  
TYPE B



CHANGE : Obstruction added.

## PRECISION APPROACH TERRAIN CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

SEKIYADO FOUR DEPARTURE

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

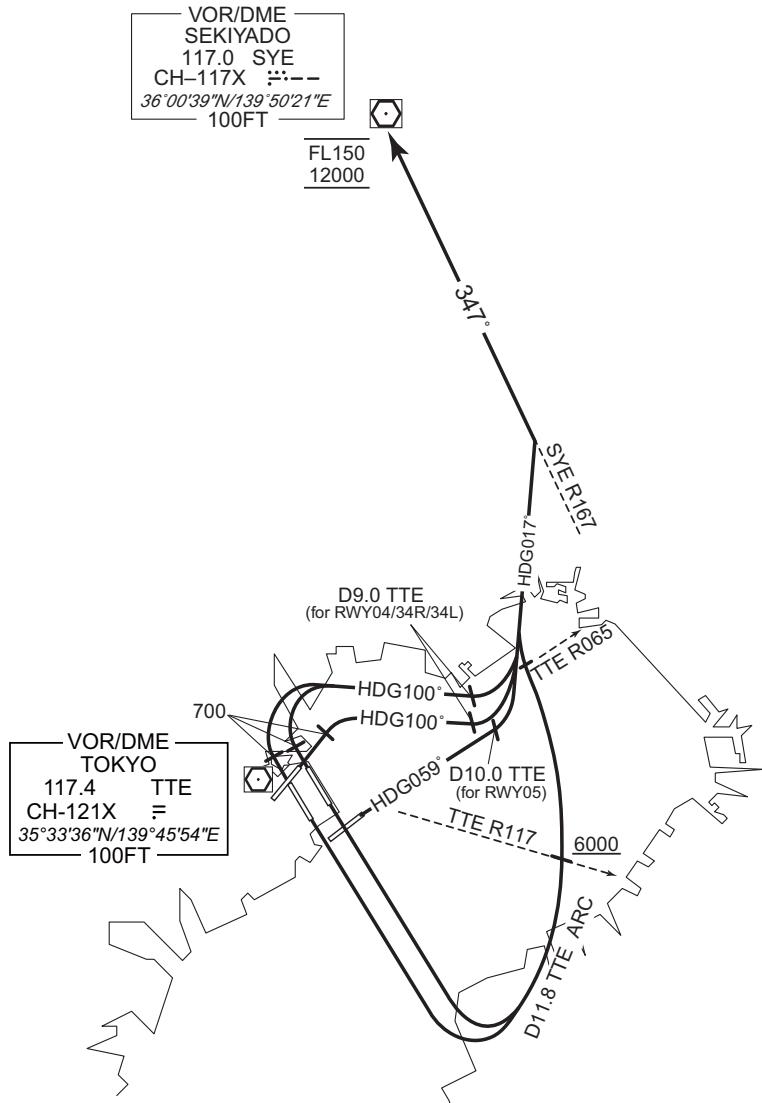
RWY16R/16L: Climb RWY HDG to intercept and proceed via TTE 11.8DME counterclockwise ARC to TTE R065, turn right HDG017° to intercept and proceed via SYE R167 to SYE VOR/DME. Cross TTE R117 at or above 6000FT, cross SYE VOR/DME between 12000FT and FL150.

RWY05 : Climb on HDG059° to TTE 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 : PROC renamed. VOR/DME relocated (HME→TTE).



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

VISIP ONE DEPARTURE

RWY04/34R/34L: Climb RWY HDG to 700FT, turn right HDG100° to TTE 9.0DME, turn right HDG223° to intercept and proceed via TTE R178 to VISIP.  
Cross TTE R120 at or above 5000FT, cross VISIP at or above 9000FT.

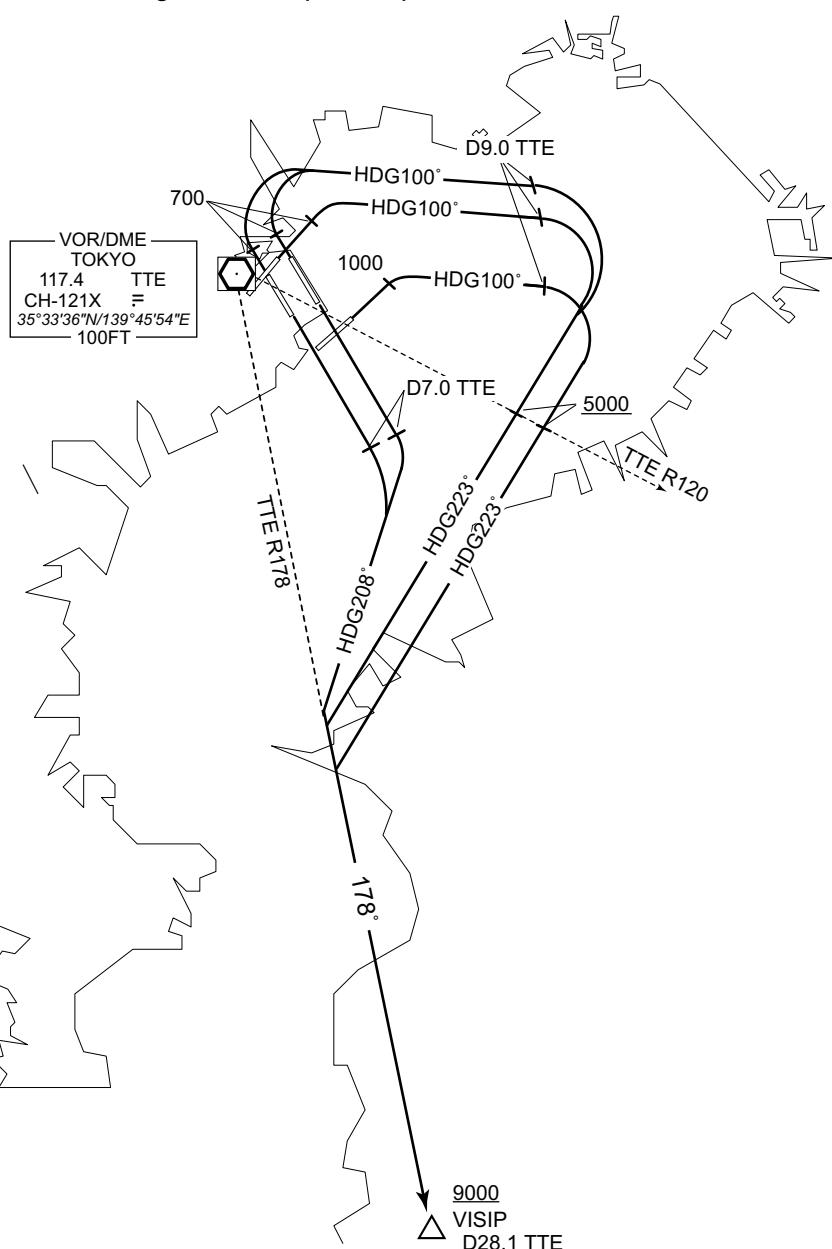
RWY16R/16L: Climb RWY HDG to TTE 7.0DME, turn right HDG208° to intercept and proceed via TTE R178 to VISIP.  
Cross VISIP at or above 9000FT.

RWY05: Climb RWY HDG to 1000FT, turn right HDG100° to TTE 9.0DME, turn right HDG223° to intercept and proceed via TTE R178 to VISIP.  
Cross TTE R120 at or above 5000FT, cross VISIP 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.

CHANGE : New PROC.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

OPPAR FOUR DEPARTURE

RWY04/34R/34L: Climb RWY HDG to 700FT, turn right within 4NM, climb via HDG110° to TTE 7.0DME, turn right, via TTE 8.0DME clockwise ARC to intercept and proceed via TTE R195 to OPPAR.

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

RWY16R/16L: Climb RWY HDG to 500FT, turn left climb via TTE R141 to 8.0DME, turn left HDG240° within TTE 12.0DME to intercept and proceed via TTE R195 to OPPAR.

Cross OPPAR at or above 9000FT.

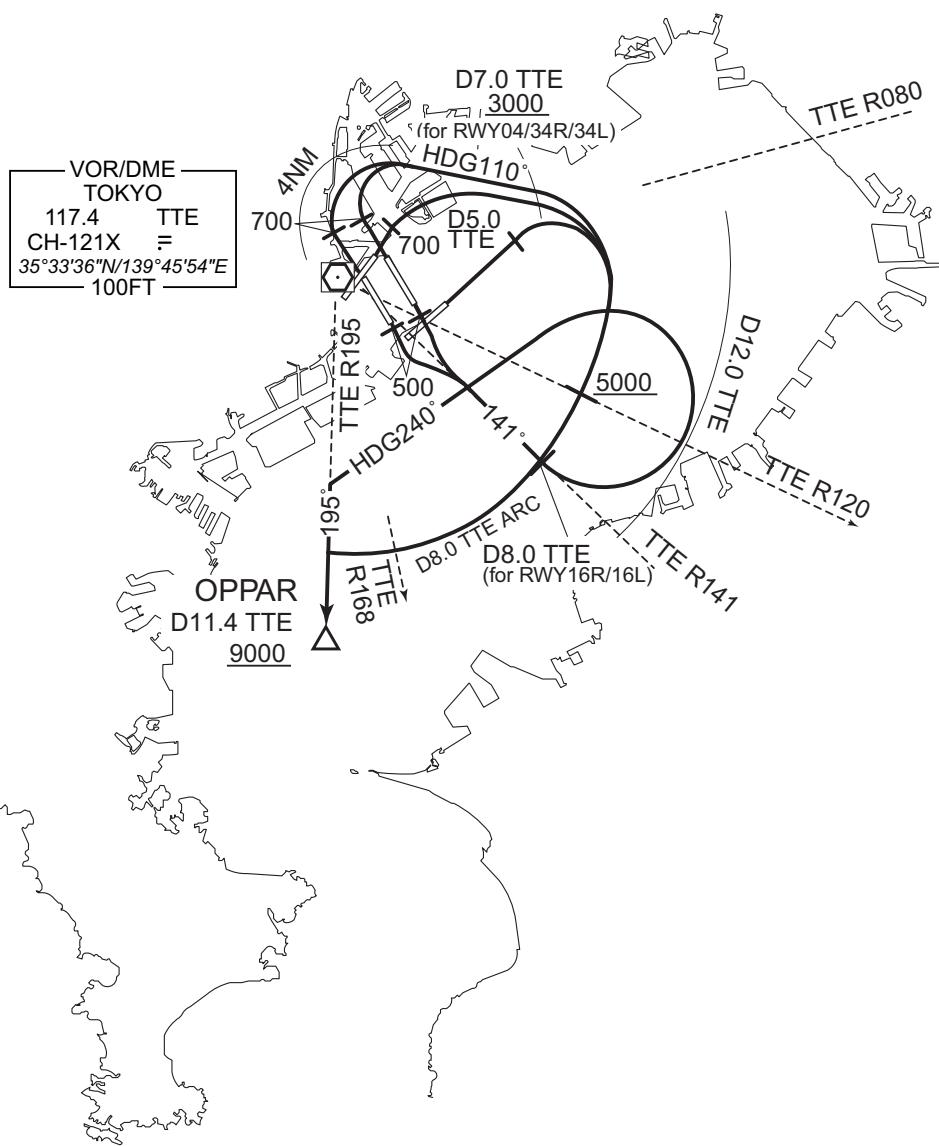
RWY05: Climb RWY HDG to TTE 5.0DME, turn right, via TTE 8.0DME clockwise ARC to intercept and proceed via TTE R195 to OPPAR.

Cross TTE 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 TTE R080.

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

CHANGE : PROC renamed. PROC course. VOR/DME relocated (HME→TTE).



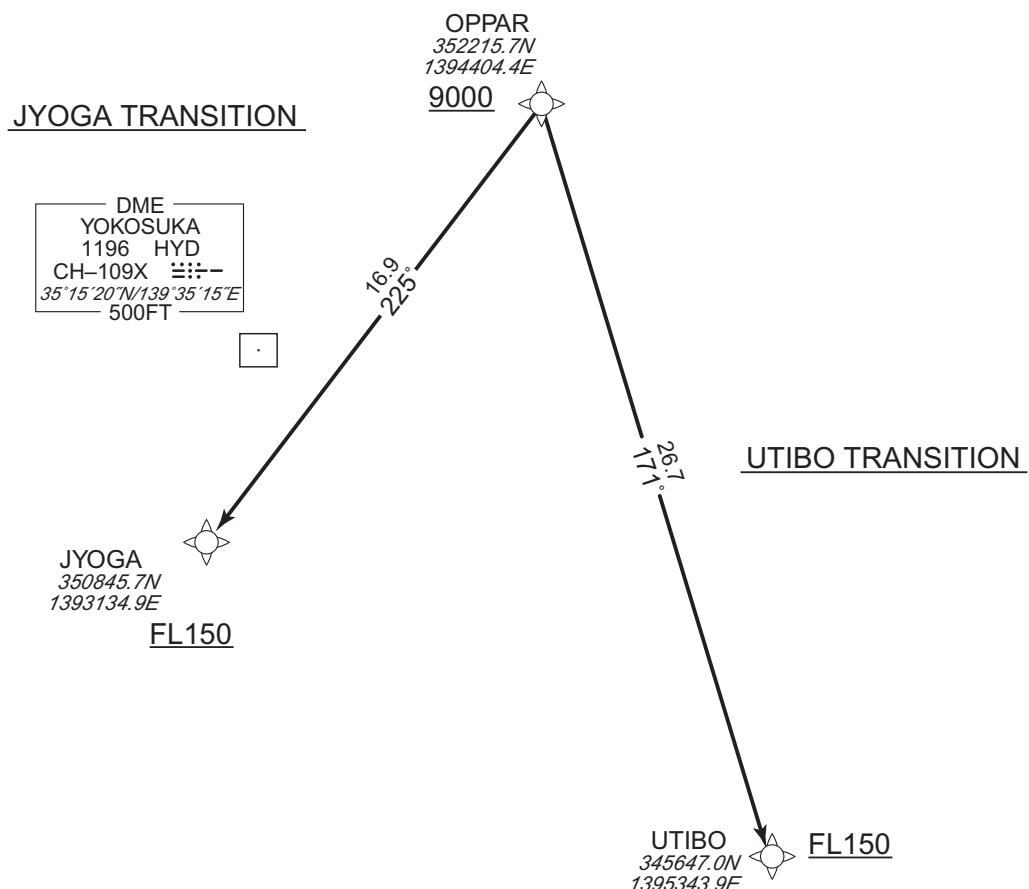
## STANDARD DEPARTURE CHART-INSTRUMENT

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 THREE DEPARTURE (FOR PROP ONLY)

RWY04/34R/34L: Climb RWY HDG to 700FT or above, turn left within 4NM, climb via TTE R178 to VISIP.

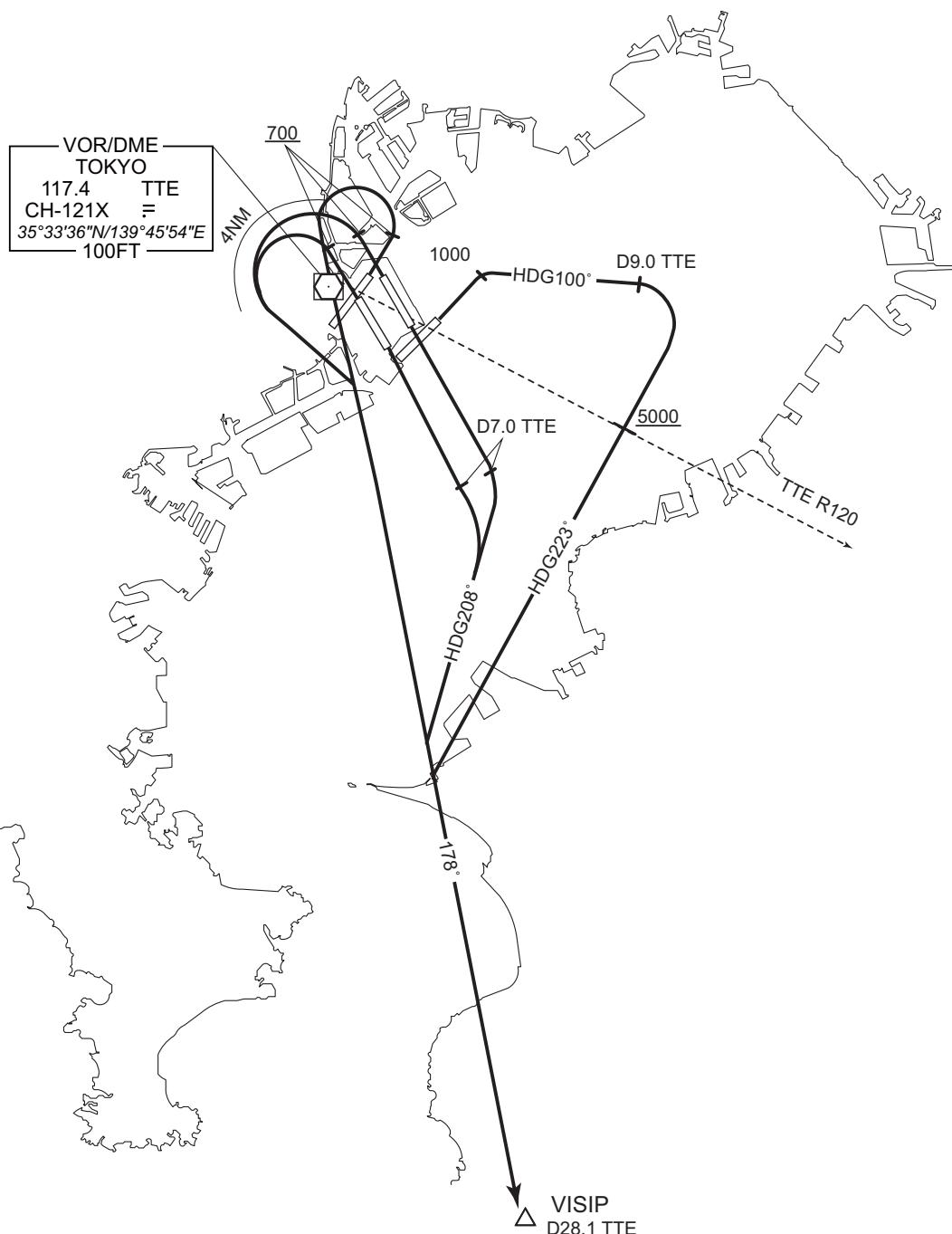
RWY16R/16L: Climb RWY HDG to TTE 7.0DME, turn right HDG208° to intercept and proceed via TTE R178 to VISIP.

RWY05: Climb RWY HDG to 1000FT, turn right HDG100° to TTE 9.0DME, turn right HDG223° to intercept and proceed via TTE R178 to VISIP.  
Cross TTE 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 : PROC renamed. PROC course. VISIP established. VADAR abolished. VOR/DME relocated (HME→TTE).



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

TRANSITION

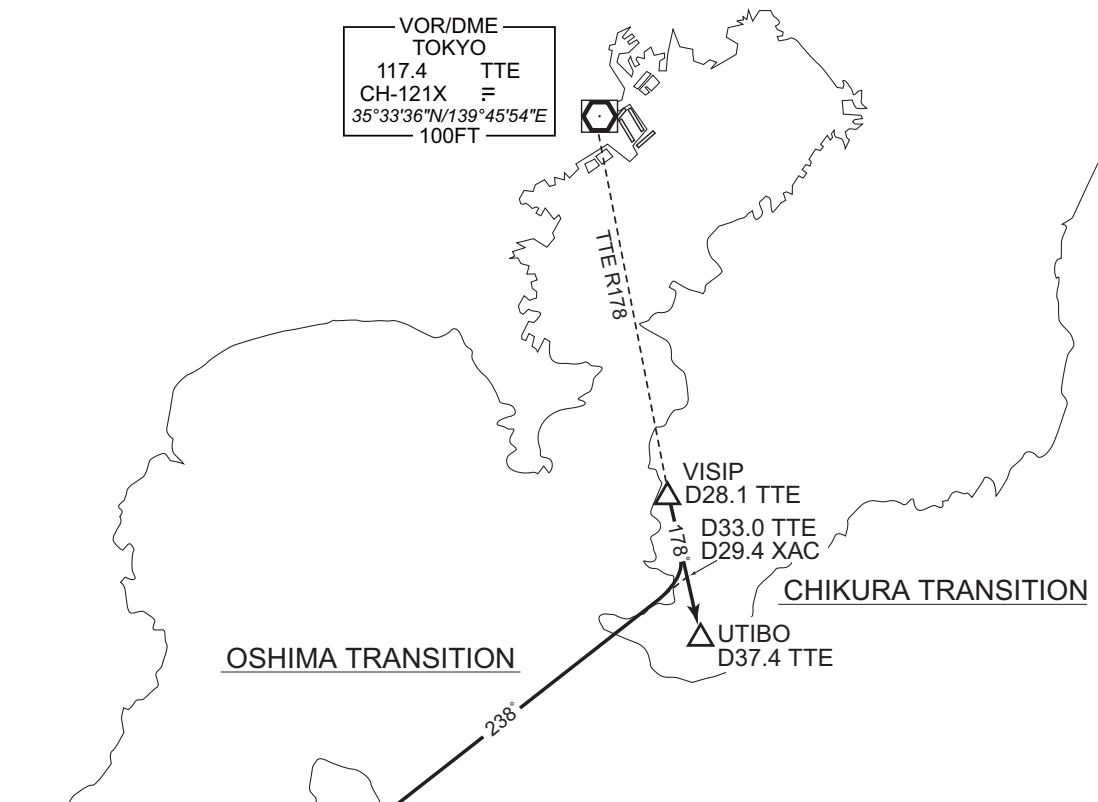
OSHIMA TRANSITION

From over VISIP, via TTE R178 to intercept and proceed via XAC R058 to XAC VORTAC.

CHIKURA TRANSITION

From over VISIP, via TTE R178 to UTIBO.

CHANGE : VISIP established. VADAR abolished. PROC course. VOR/DME relocated (HIME→TTE).



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 : TTE 1.2NM FM DER - 5.0NM to T6R11 RWY34R : TET 2.5NM FM DER - 10.0NM to TT502 RWY34L : TET 2.9NM FM DER - 7.3NM to TT502 RWY22 : HYD 5.0NM to HOBBS - 4.0NM to HOBBS TET 5.0NM to HOBBS - 4.0NM to HOBBS
DME GAP RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 0.2NM FM DER RWY34L:DER - 0.4NM FM DER RWY04:DER - 1.0NM FM DER RWY22:DER - 1.0NM FM DER		
Inappropriate Navaids See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		
VAR8°W		
<p>CHANGE : DME GAP. Critical DME. VOR/DME relocated (HME→TTE).</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>CHANGE : Description of VAR.</p>		VAR8°W

## 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

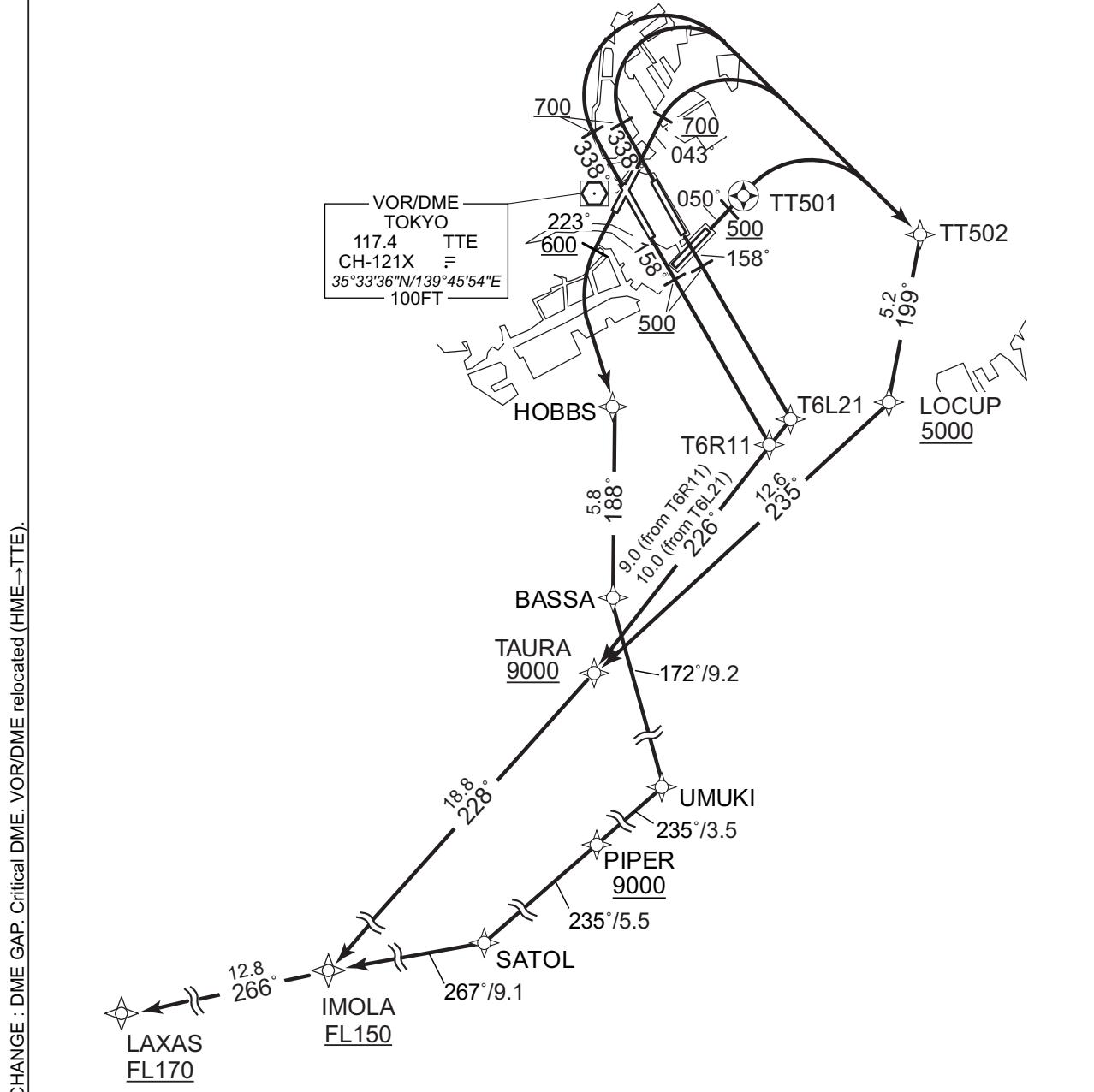
STANDARD DEPARTURE CHART-INSTRUMENT

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	RNAV1
DME GAP  RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 0.2NM FM DER RWY34L:DER - 0.4NM FM DER RWY04:DER - 1.0NM FM DER RWY22:DER - 1.0NM FM DER		RWY16R : TTE 1.2NM FM DER - 5.0NM to T6R11 RWY34R : TET 2.5NM FM DER - 10.0NM to TT502 RWY34L : TET 2.9NM FM DER - 7.3NM to TT502 RWY22 : HYD 5.0NM to HOBBS - 4.0NM to HOBBS TET 5.0NM to HOBBS - 4.0NM to HOBBS
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.		
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 0.2NM FM DER RWY34L : DER - 0.4NM FM DER RWY04 : DER - 1.0NM FM DER RWY22 : DER - 1.0NM FM DER	Critical DME
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	
VAR8°W		<p>The chart illustrates the NINOX FOUR DEPARTURE route. It starts at VOR/DME TOKYO (117.4 TTE, 35°33'36"N/139°45'54"E, 100FT). The route branches into two main segments at TT631. The upper segment leads to TT501 and TT502 via TT6L22 and T6R12. The lower segment leads to BAYGE (9000), BASSA, and UMUKI via CURVA (FL150) and SATOL. Other waypoints include LOCUP (5000), PIPER (9000), and HOBBS. The chart also shows VOR/DME locations like CH-121X and SEIKO (13000). Flight levels FL170 and FL150 are indicated. A note at the bottom left states: "CHANGE : DME GAP. Critical DME. VOR/DME relocated (HME→TTE)." A VAR8°W indicator is present in the top left corner.</p>

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

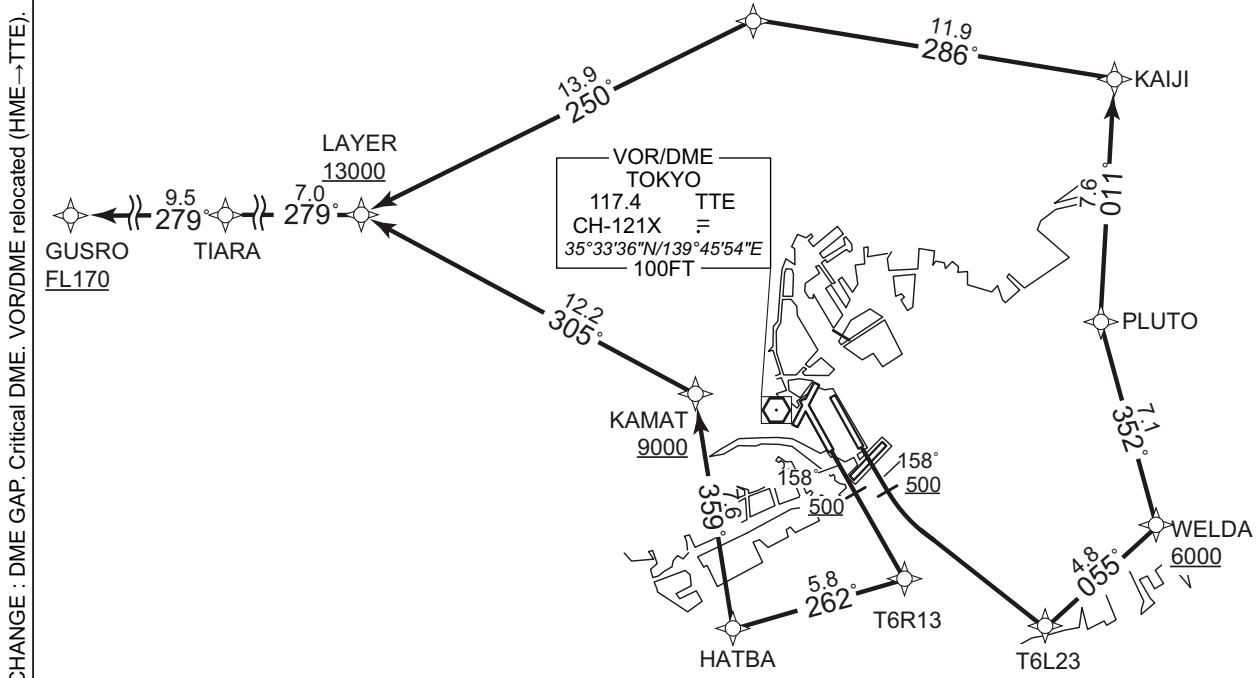
TIARA TWO A DEPARTURE		RNAV SID
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		RNAV1
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY04 : DER - 1.0NM FM DER	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



## STANDARD DEPARTURE CHART-INSTRUMENT

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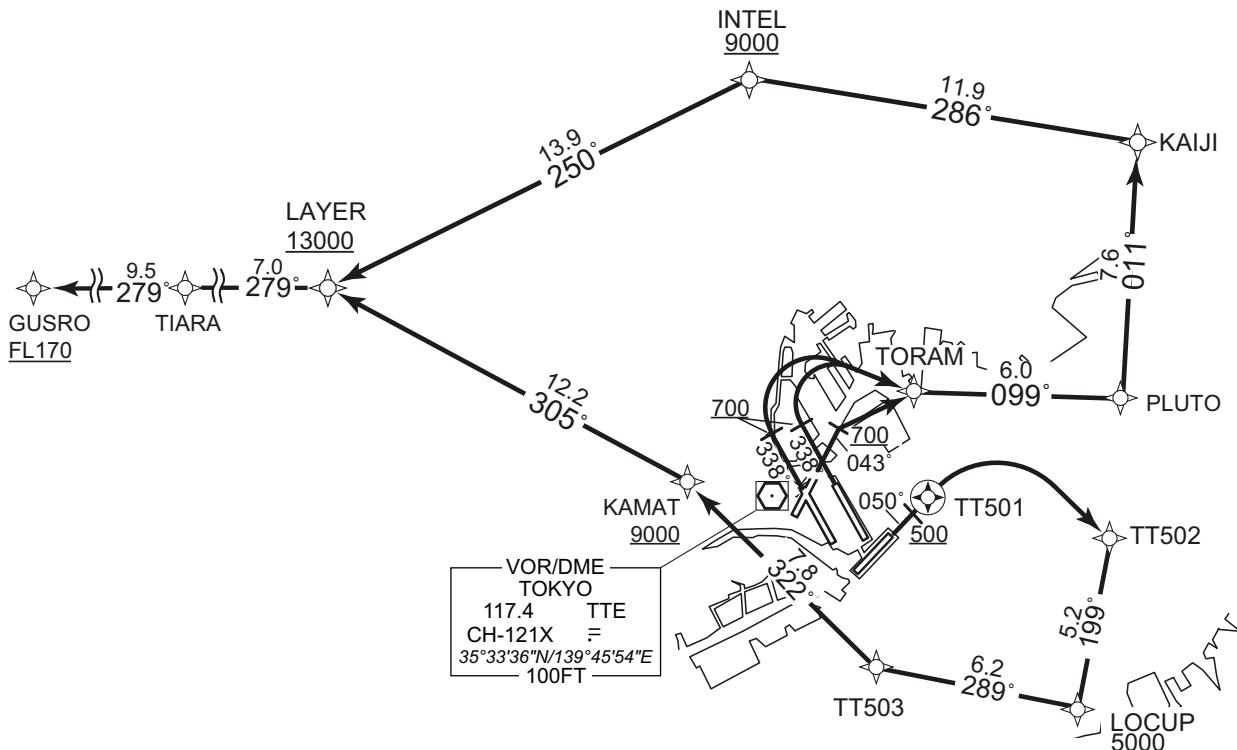
RNAV SID

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 : VOR/DME relocated (HME→TTE).

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 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 - 0.6NM FM DER	Critical DME RWY16R : TTE 1.2NM FM DER - 2.5 NM to T6R13 RWY16L : TTE 1.0NM FM DER - 5.3NM to T6L23 RWY34R : TET 2.5NM FM DER - 4.8NM to ARAKA
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

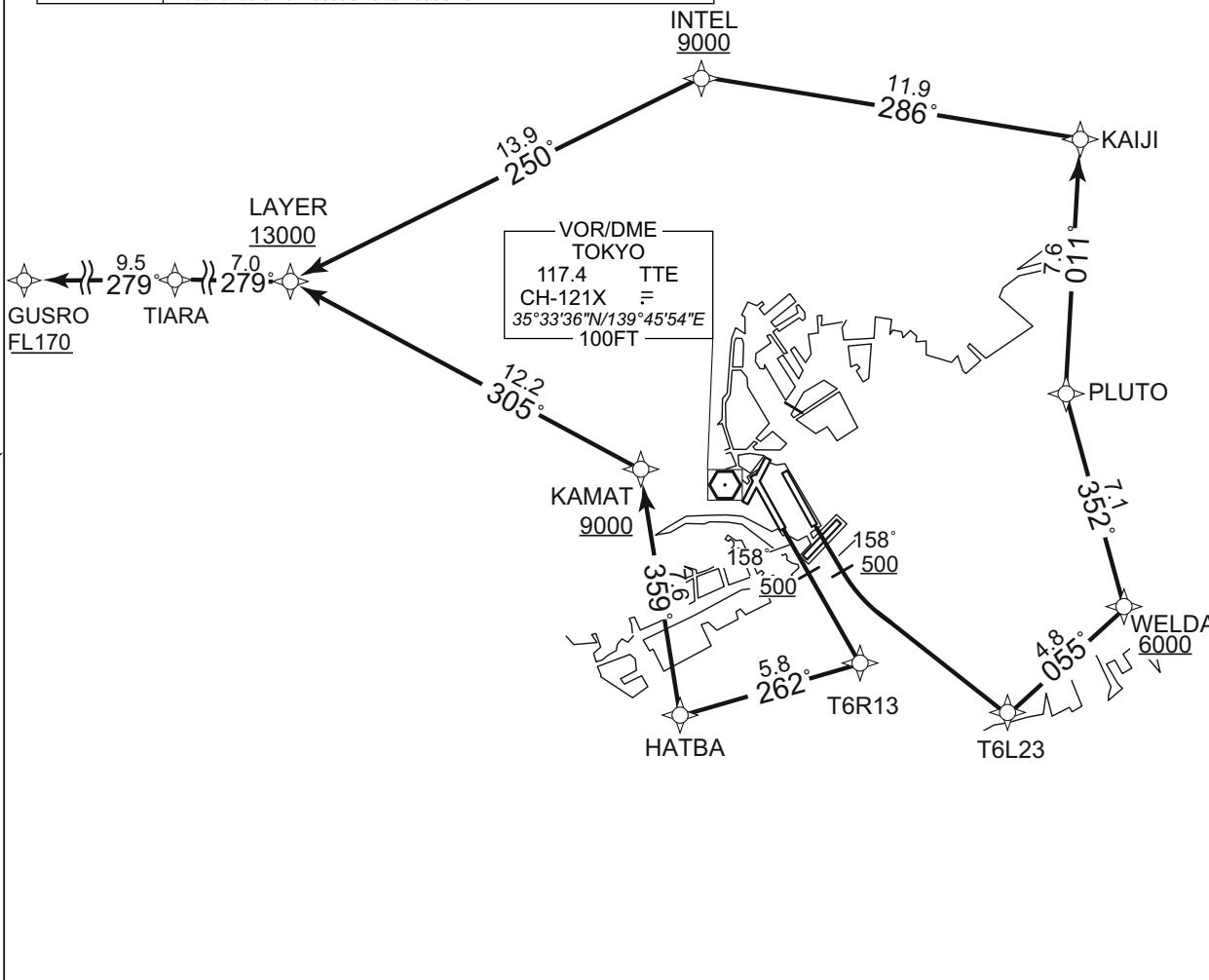
VAR8°W

## TIARA THREE 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 : DME GAP, Critical DME, VOR/DME relocated (HME→TTE).



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

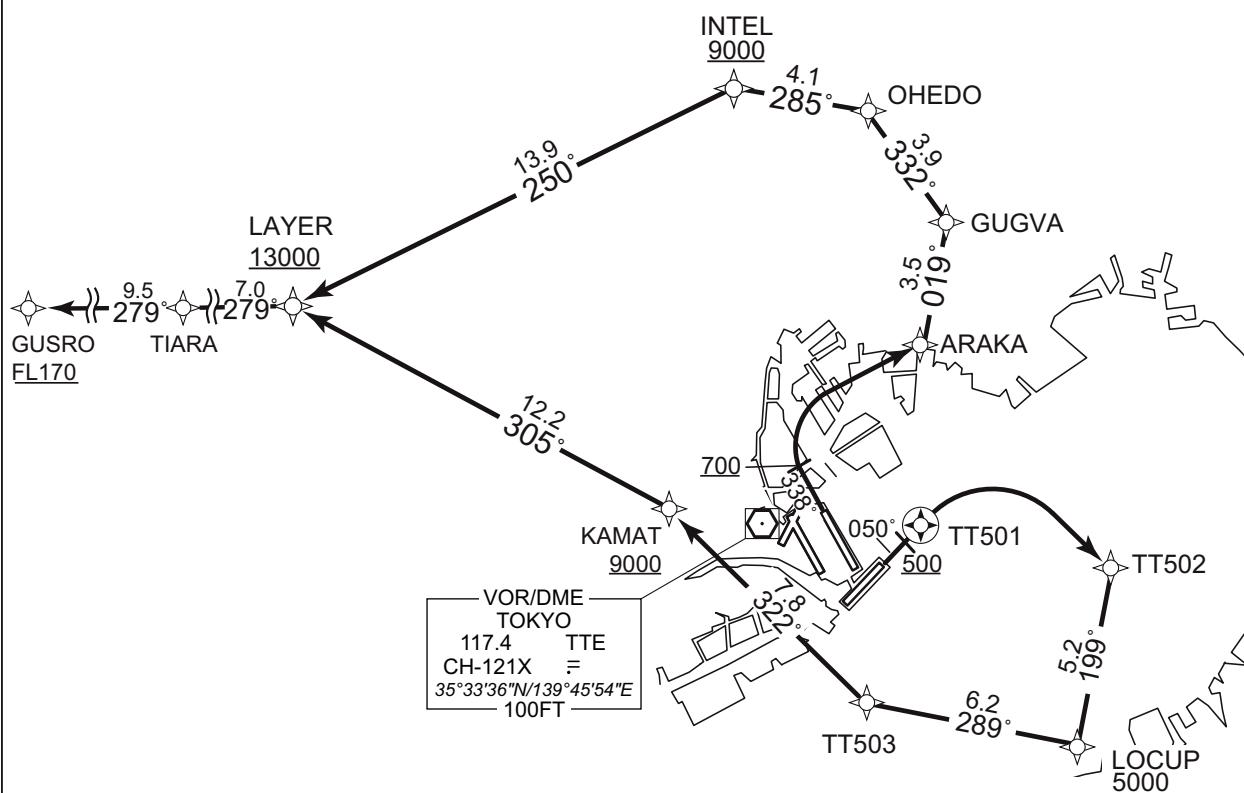
RNAV SID

VAR8°W

TIARA THREE 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



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA 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 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 GUGVA, 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. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## TIARA 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	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	GUGVA	—	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. GUGVA established. EDOJO abolished.

## 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 : GUGVA established. EDOJO abolished.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	OHEDO	354523.4N / 1394838.6E
GUGVA	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 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 - 0.6NM FM DER

Critical DME

RWY16R : TTE 1.2NM FM DER - 5.0NM to T6R11  
RWY16L : TTE 1.0NM FM DER - 5.3NM to T6L23  
RWY34R : TET 2.5NM FM DER - 4.8NM to ARAKA

Inappropriate Navaids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

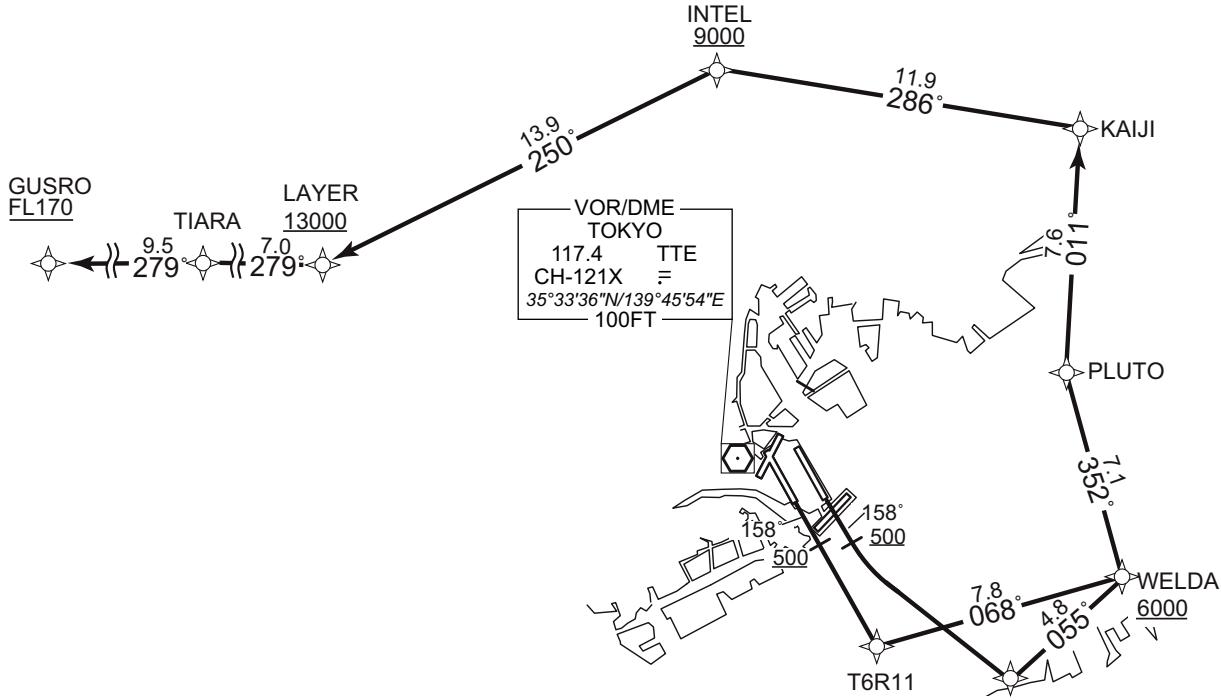
VAR8°W

TIARA THREE 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

CHANGE : DME GAP. Critical DME. VOR/DME relocated (HME→TTE).



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

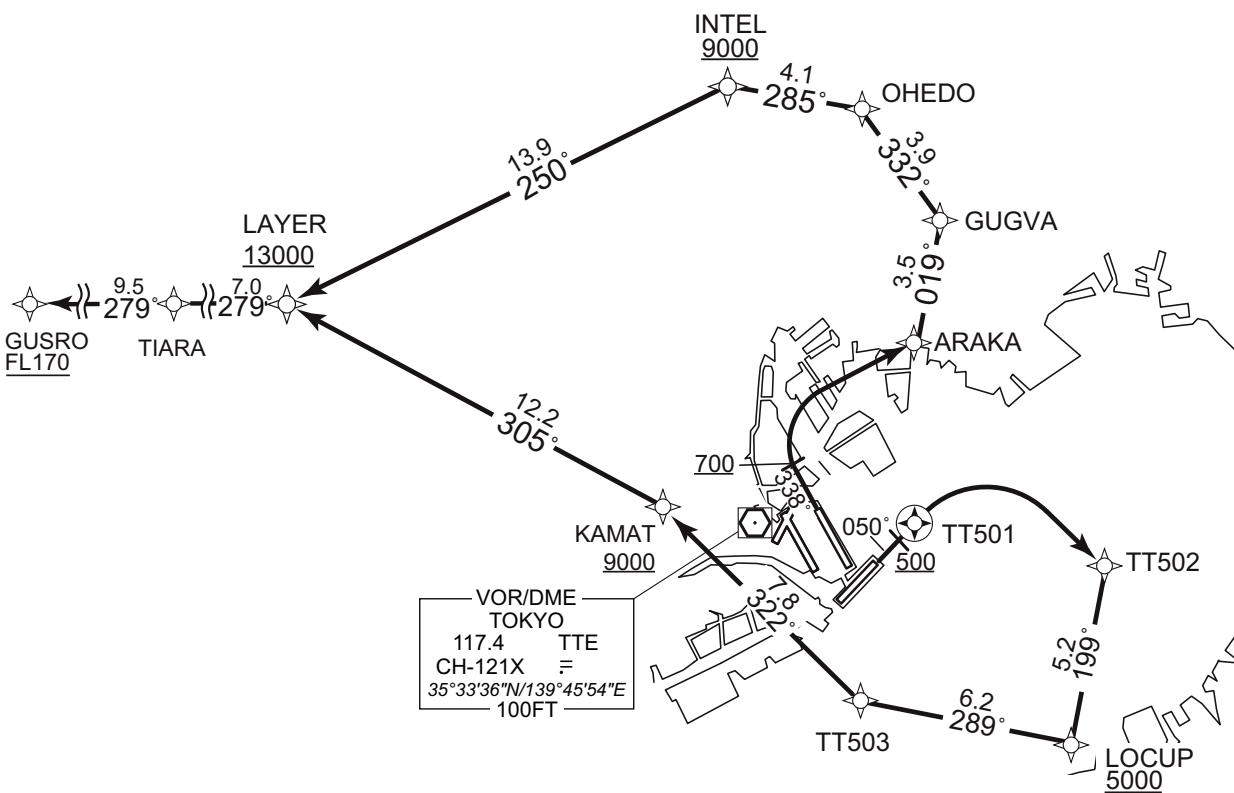
RNAV SID

VAR8°W

TIARA THREE 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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA 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 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 GUGVA, 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. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA 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	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	GUGVA	—	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. GUGVA established. EDOJO abolished.

## 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 : GUGVA established. EDOJO abolished.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	PLUTO	353632.1N / 1395736.8E
GUGVA	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

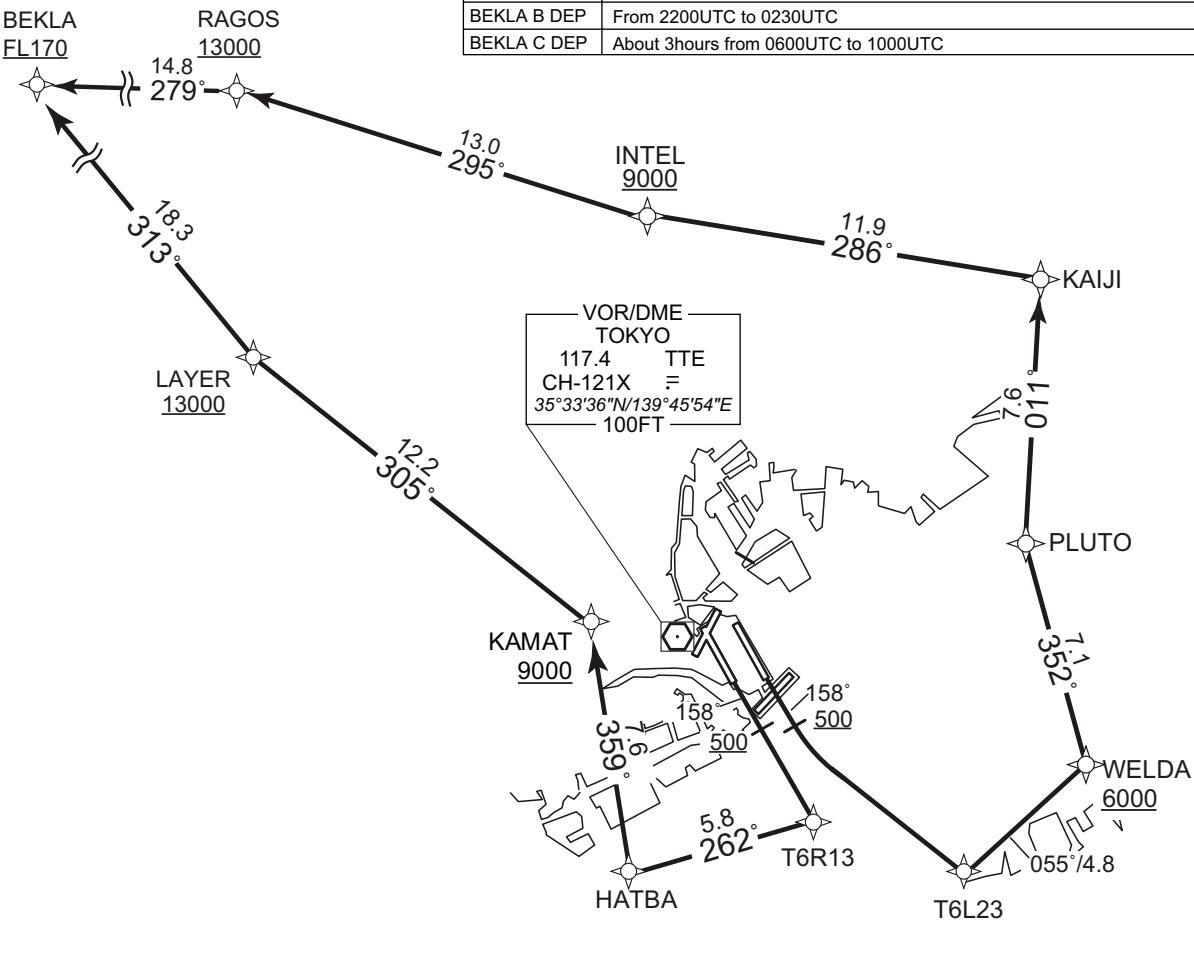
BEKLA THREE A DEPARTURE		RNAV SID
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY04 : DER - 1.0NM FM DER	Critical DME  RWY16R : TTE 1.2NM FM DER - 2.5NM to T6R13 RWY16L : TTE 1.0NM FM DER - 5.3NM to T6L23 RWY34R : TET 2.5NM FM DER - 3.7NM to TORAM RWY34L : TET DER - 3.0NM FM DER RWY04 : PQD 2.0NM to TORAM - TORAM
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

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 : DME GAP: Critical DME, VOR/DME relocated (HME→TTE).



STANDARD DEPARTURE CHART-INSTRUMENT

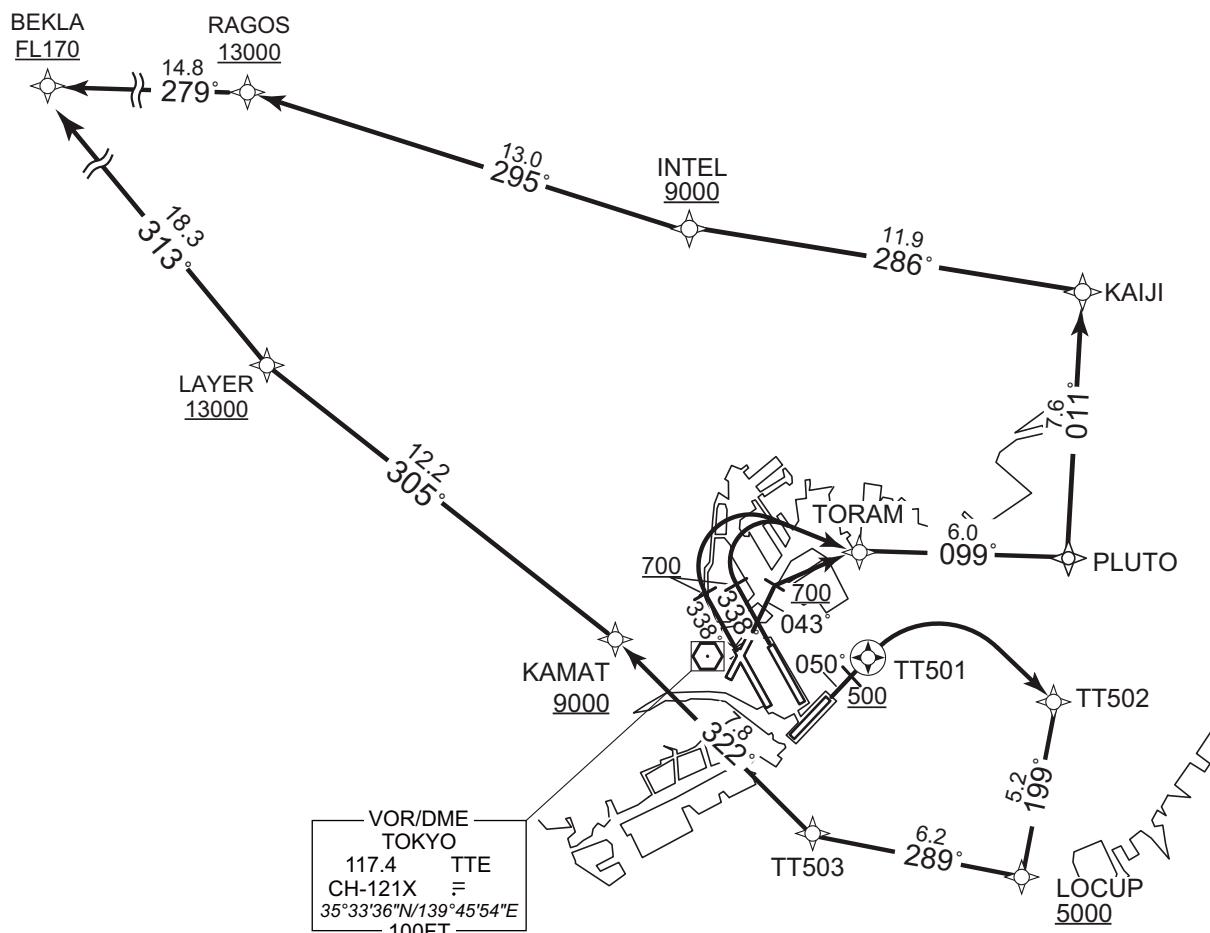
RJTT/TOKYO INTL

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



CHANGE : VOR/DME relocated (HME → TTE).

## 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 renamed. 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 FOUR 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 - 0.6NM FM DER

Critical DME

RWY16R : TTE 1.2NM FM DER - 2.5NM to T6R13  
RWY16L : TTE 1.0NM FM DER - 5.3NM to T6L23  
RWY34R : TET 2.5NM FM DER - 4.8NM to ARAKA

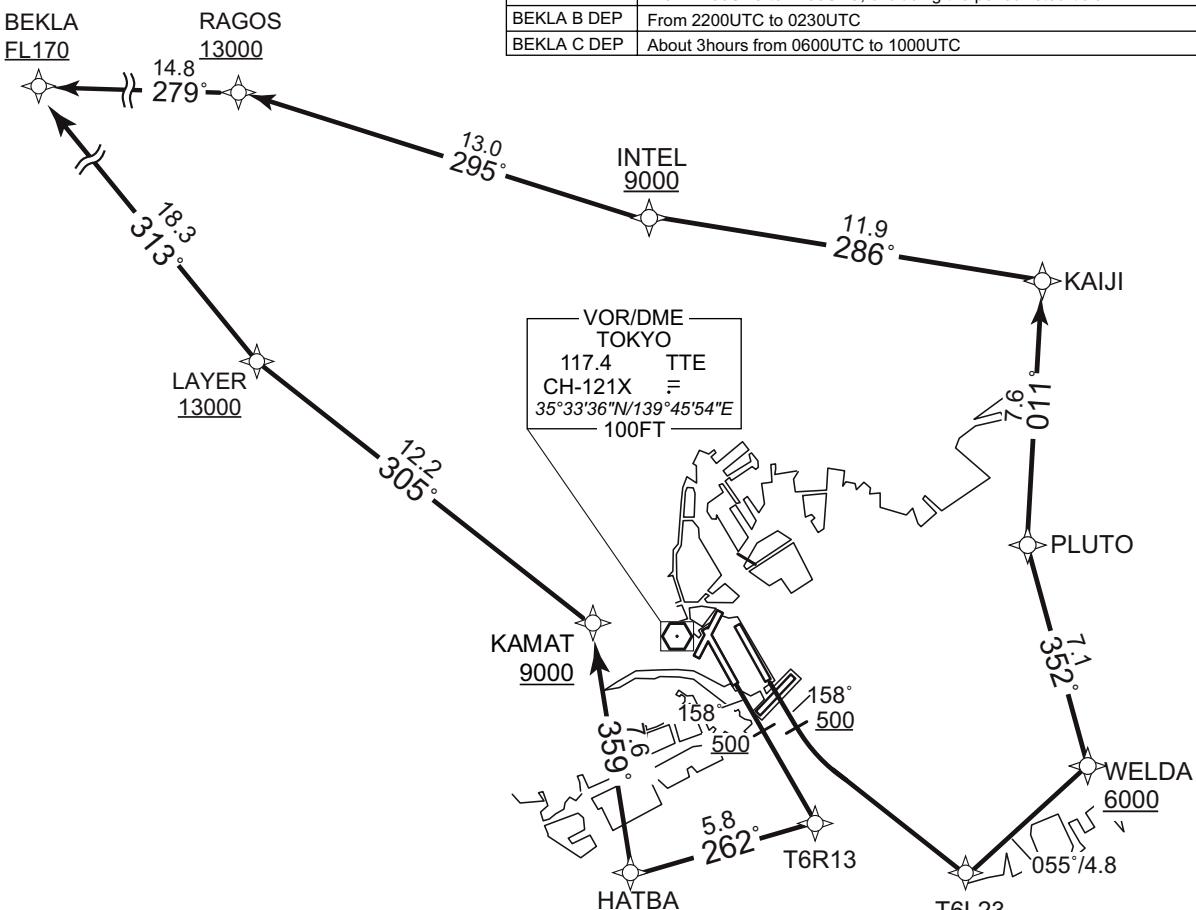
Inappropriate Navaids  
See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

VAR8°W

BEKLA FOUR 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

CHANGE : DME GAP, Critical DME, VOR/DME relocated (HME→TTE).



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

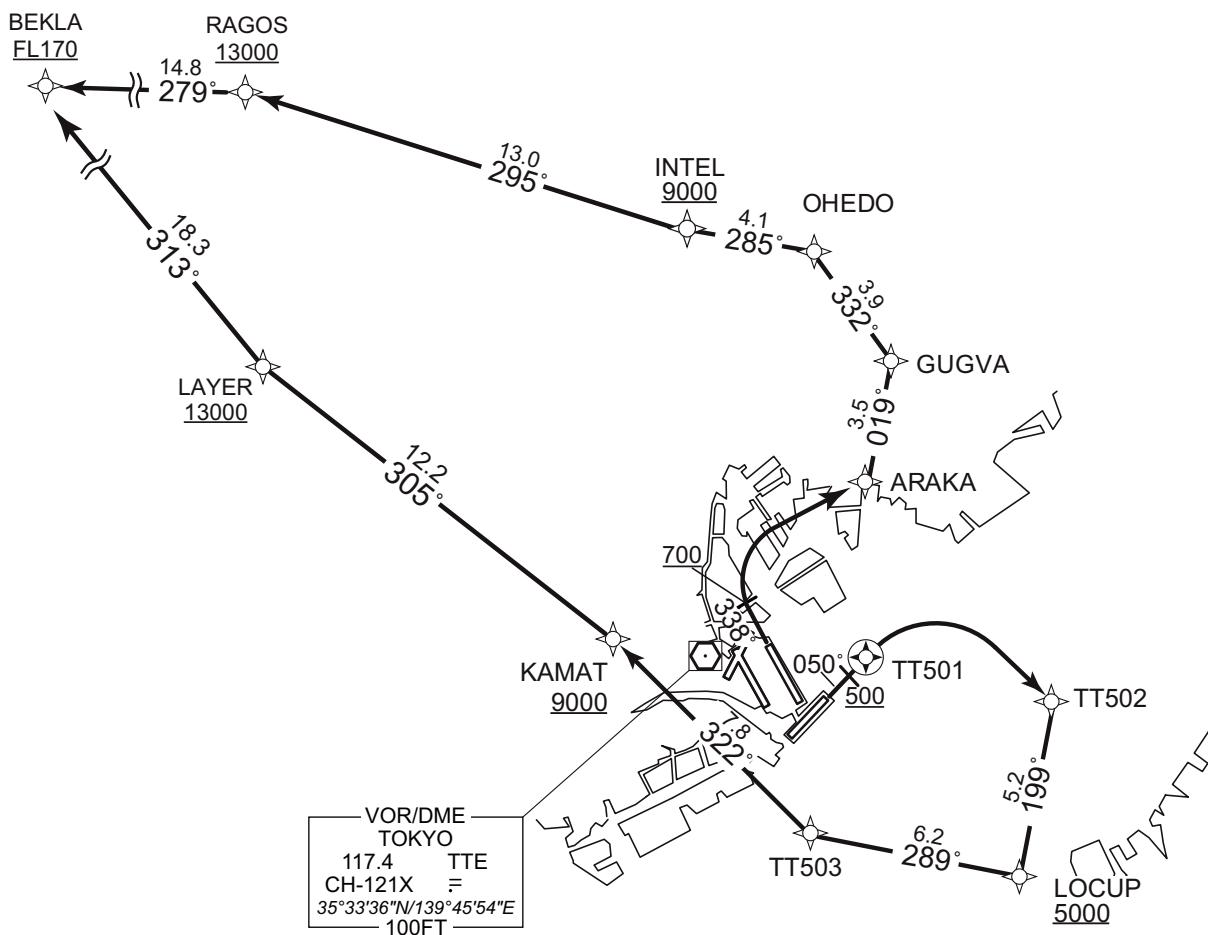
RNAV SID

VAR8°W

BEKLA FOUR 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



CHANGE : VOR/DME relocated (HME→TTE).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA FOUR 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 GUGVA, 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. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA FOUR 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

## 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	GUGVA	-	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. GUGVA established. EDOJO abolished.

## 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 : GUGVA established. EDOJO abolished.

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
GUGVA	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 FIVE 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 - 0.6NM FM DER

Critical DME

RWY16R : TTE 1.2NM FM DER - 5.0NM to T6R11  
RWY34R : TET 2.5NM FM DER - 4.8NM to ARAKA

Inappropriate Navaids

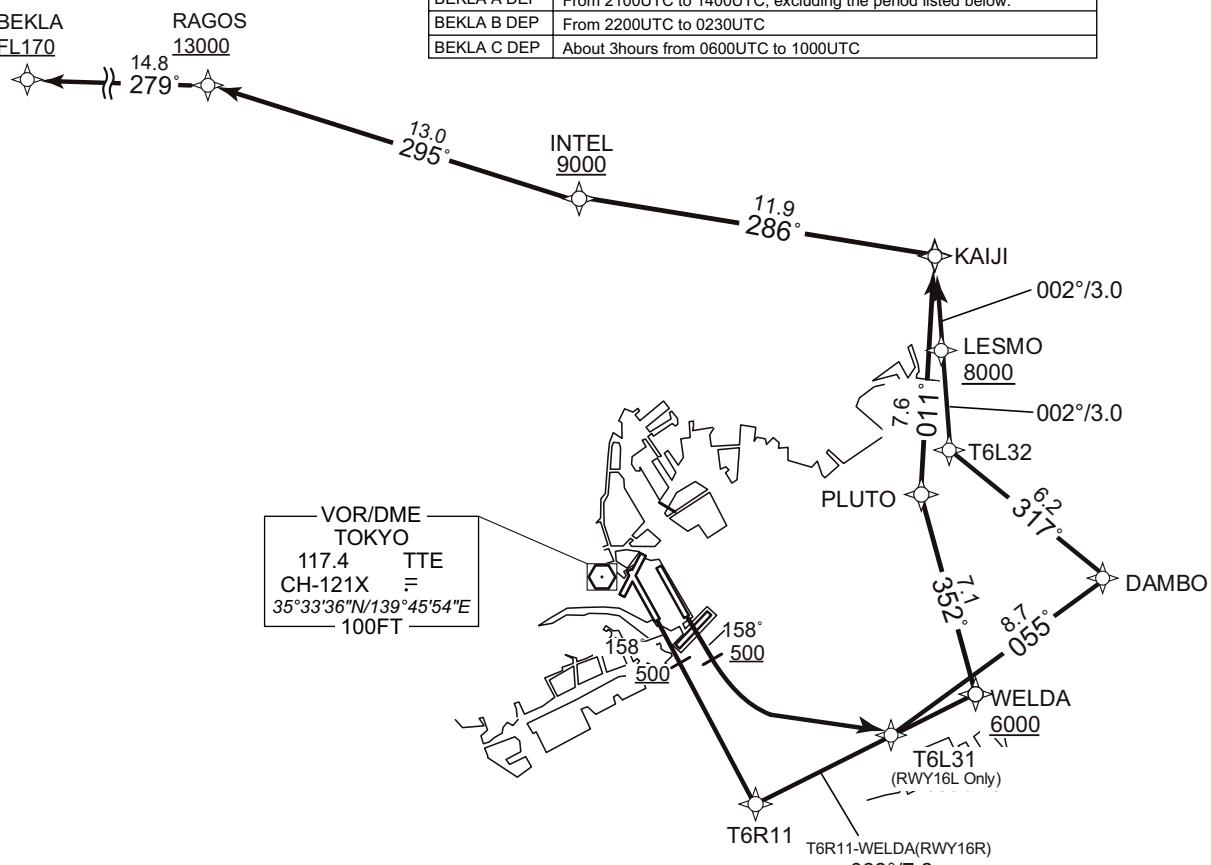
See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

VAR8°W

## BEKLA FIVE 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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

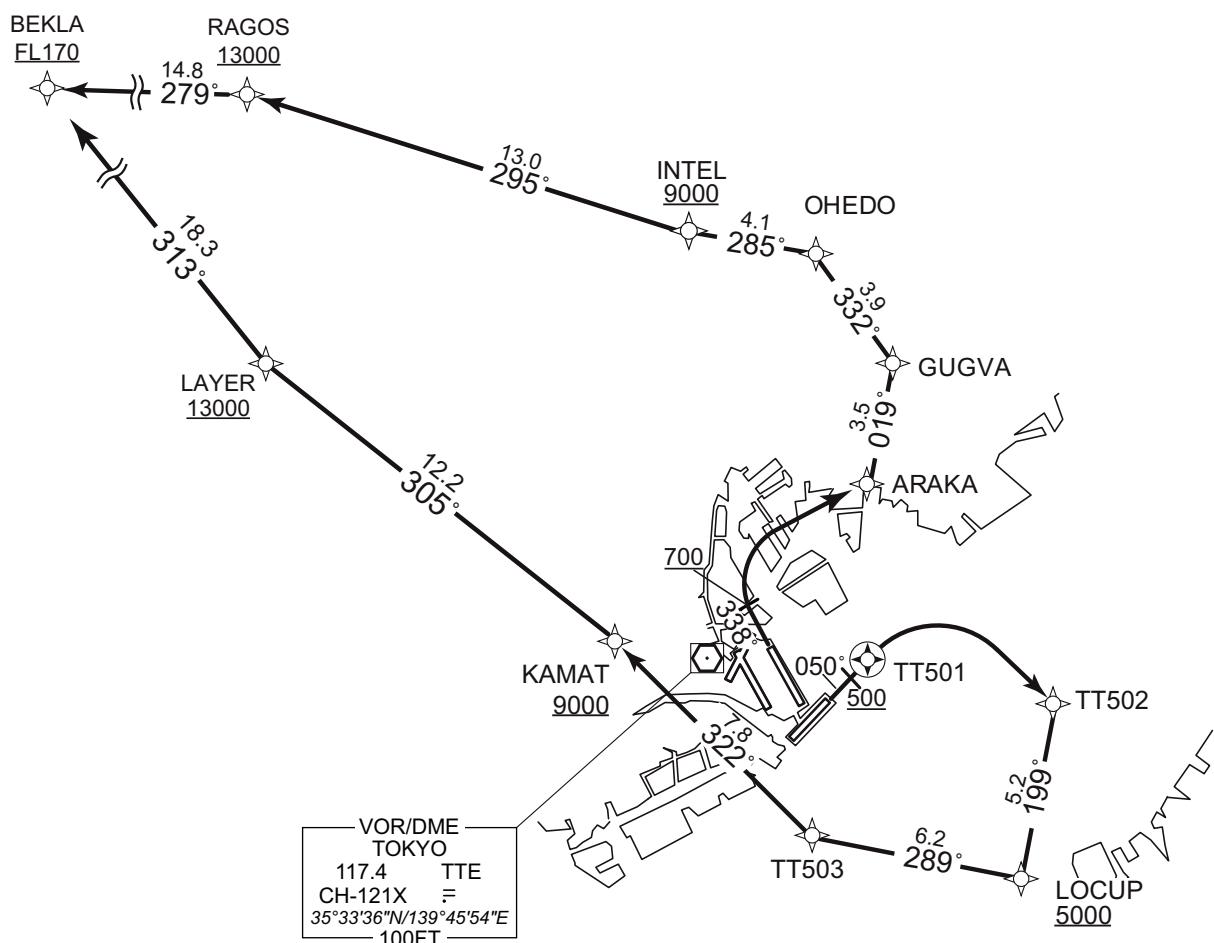
RNAV SID

VAR8°W

**BEKLA FIVE 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 FIVE 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 GUGVA, 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.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA FIVE 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	GUGVA	–	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. GUGVA established. EDOJO abolished.

## 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 : GUGVA established. EDOUO abolished.

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
GUGVA	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

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  
RWY04: DER - 1.0NM FM DER

Inappropriate Navaids  
See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

Critical DME

RWY16R : TTE 1.2NM FM DER - 5.0NM to T6R11  
RWY16L : TTE 1.0NM FM DER - 5.3NM to T6L23  
RWY34R : TET 2.5NM FM DER - 3.7NM to TORAM  
RWY34L : TET DER - 3.0NM FM DER  
RWY04 : PQD 2.0NM to TORAM - TORAM

VAR8°W

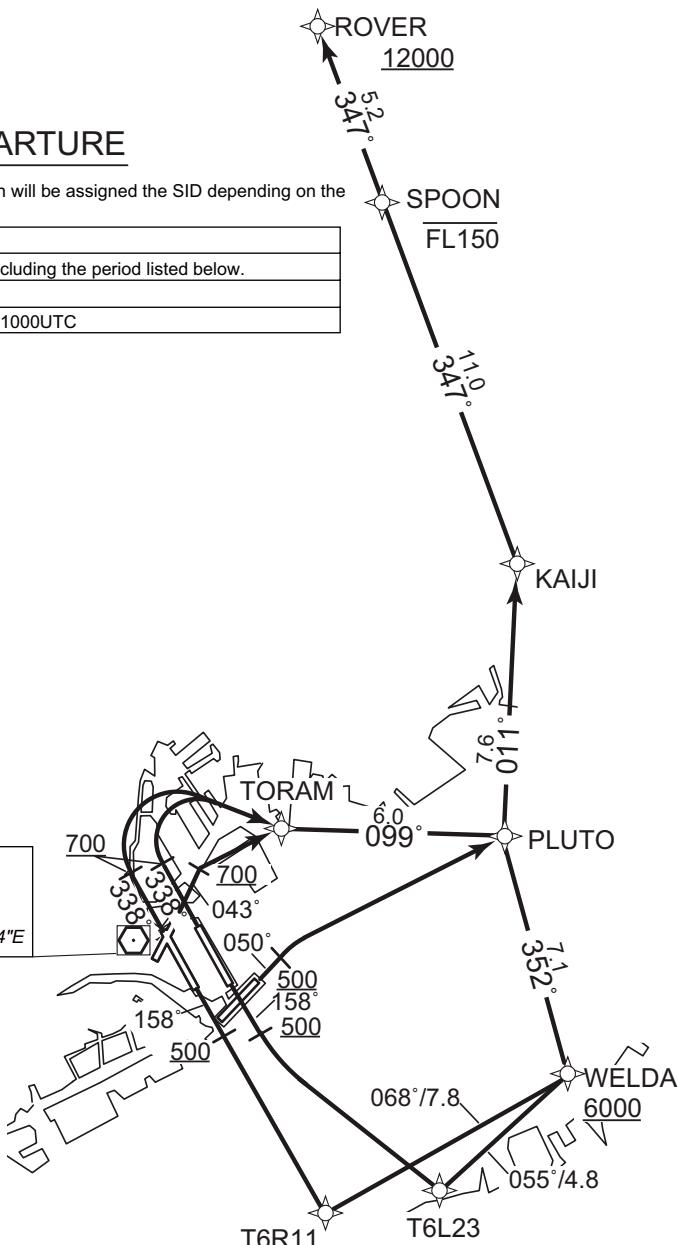
ROVER THREE A DEPARTURE

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 : DME GAP. Critical DME. VORDME relocated (HME→TTE).

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X  
35°33'36"N/139°45'54"E  
100FT



## 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 FOUR 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 - 0.6NM FM DER

Inappropriate Navaids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

Critical DME

RWY16R : TTE 1.2NM FM DER - 5.0NM to T6R11  
RWY16L : TTE 1.0NM FM DER - 5.3NM to T6L23  
RWY34R : TET 2.5NM FM DER - 4.8NM to ARAKA

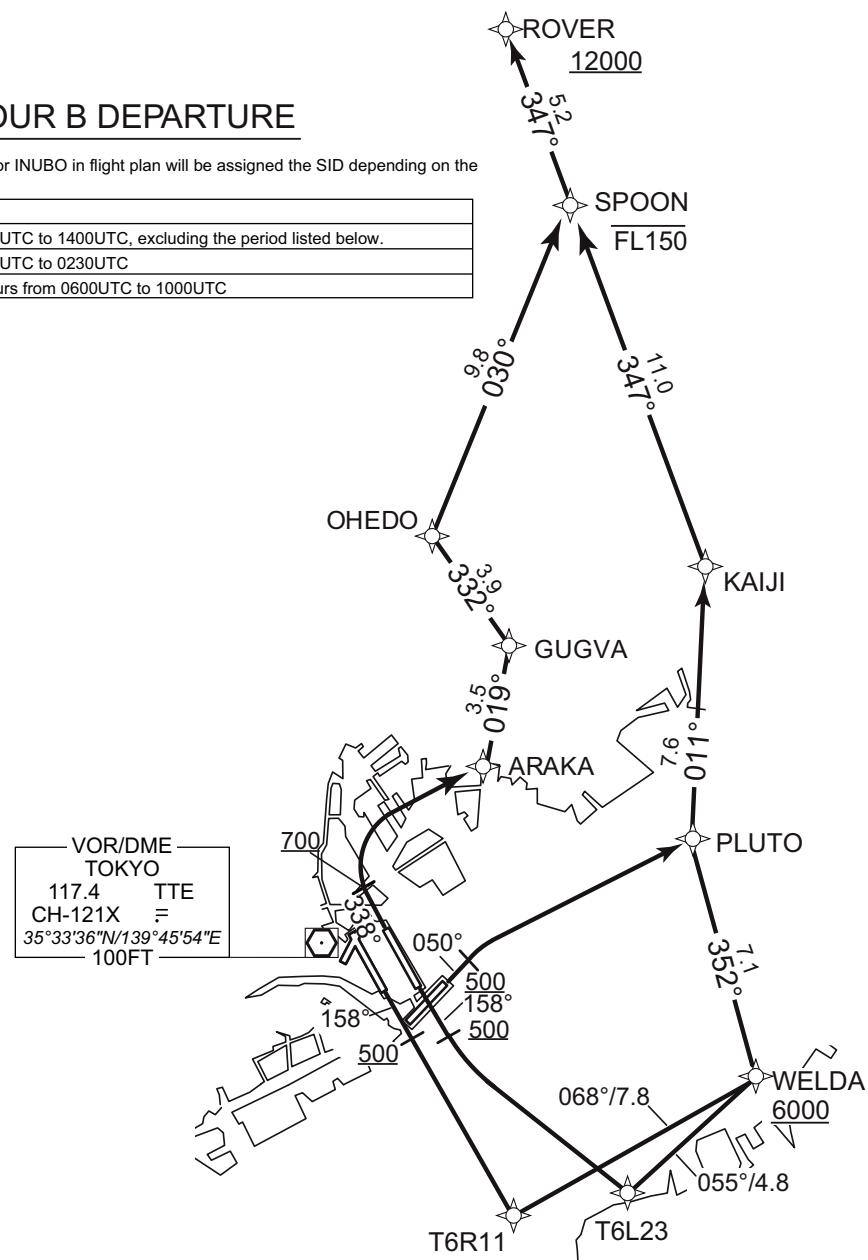
VAR8°W

ROVER FOUR 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 : DME GAP. Critical DME. VOR/DME relocated (HME→TTE).



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER FOUR 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 GUGVA, 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. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER FOUR 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

## 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	GUGVA	—	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. GUGVA established. EDOJO abolished.

## 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

CHANGE : GUGVA established. EDOJO abolished.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	ROVER	355918.3N / 1395059.3E
GUGVA	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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER FOUR 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 - 0.6NM FM DER

Inappropriate Navaids  
 See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

Critical DME

RWY16R : TTE 1.2NM FM DER - 5.0NM to T6R11  
 RWY34R : TET 2.5NM FM DER - 4.8NM to ARAKA

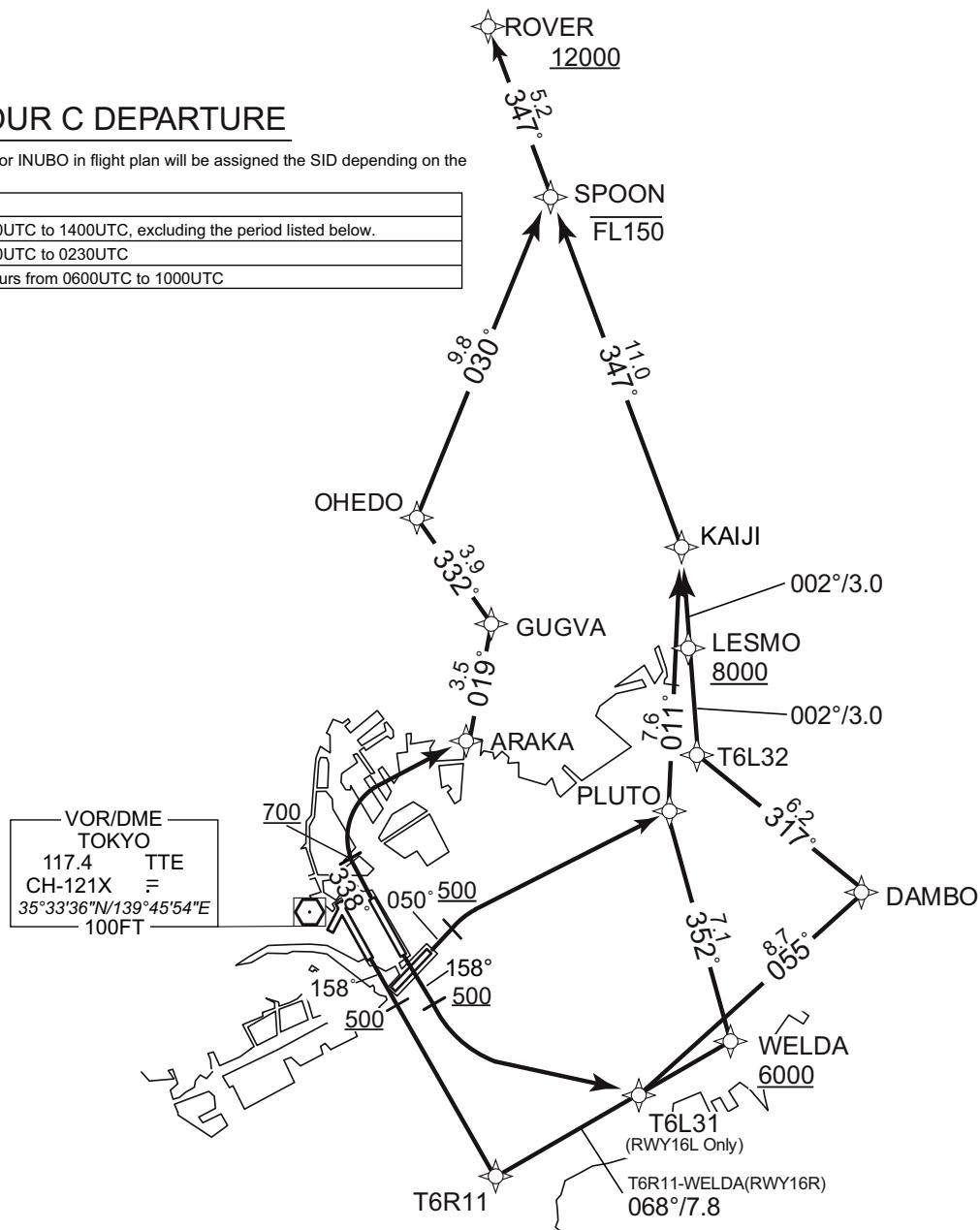
VAR8°W

ROVER FOUR 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

CHANGE : DME GAP, Critical DME, VOR/DME relocated (HME→TTE).



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER 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 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 GUGVA, 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. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER 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	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	GUGVA	—	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. GUGVA established. EDOUO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

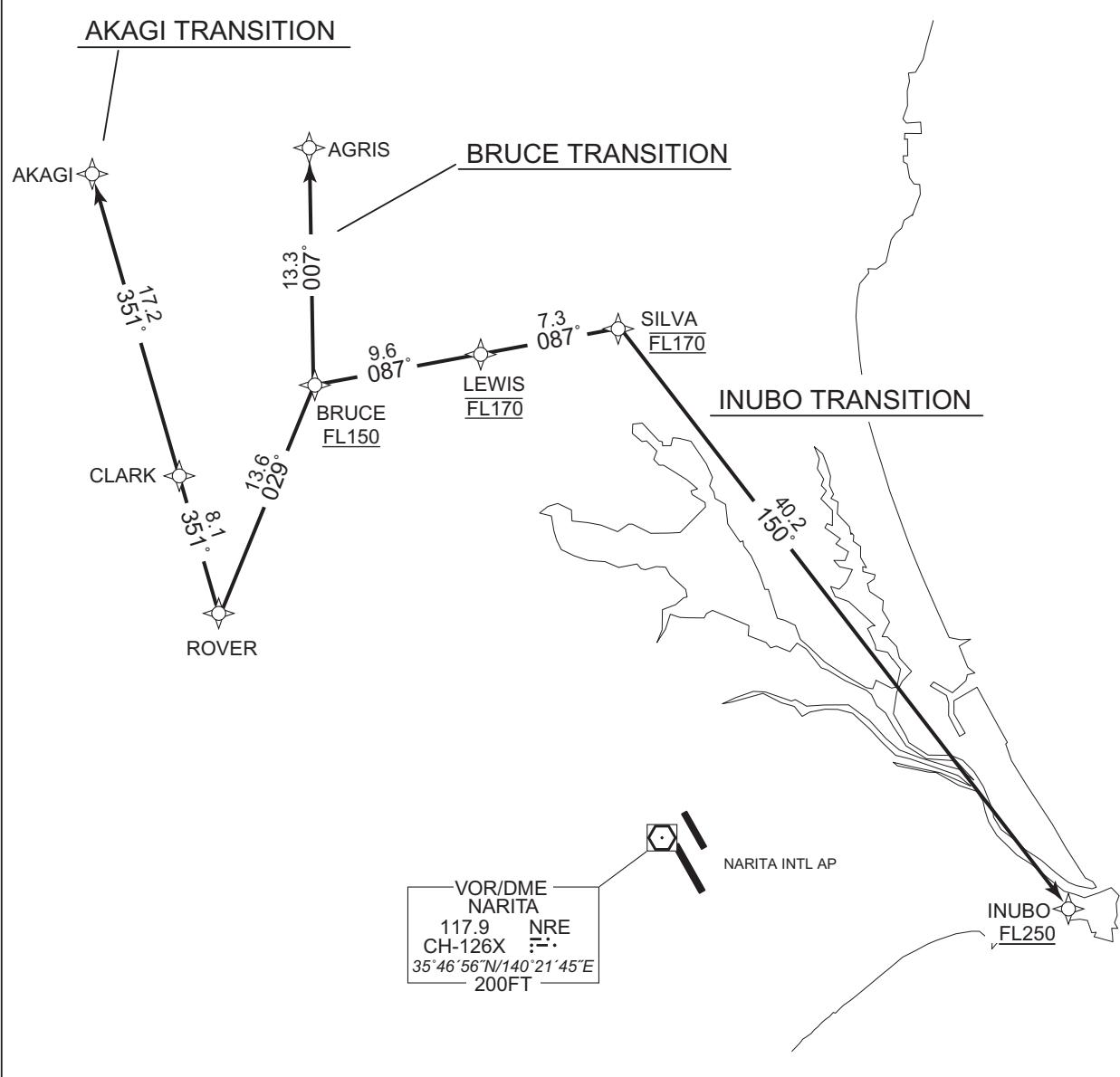
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	PLUTO	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	KAIJI	—	011 (003.0)	-7.9	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

CHANGE : GUGVA established. EDOJO abolished.

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
GUGVA	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		

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><b>AKAGI TRANSITION</b></p> <p>AKAGI → 351° 172° → CLARK → 351° 8.1° → ROVER → 139° 007° → AGRIS</p> <p><b>BRUCE TRANSITION</b></p> <p>AGRIS → 007° 133° → BRUCE FL150 → 087° 9.6° → LEWIS → 087° 7.3° → SILVA FL170</p> <p><b>INUBO TRANSITION</b></p> <p>SILVA → 087° 150° → 40.2° → INUBO FL250</p> <p><b>VOR/DME NARITA</b></p> <ul style="list-style-type: none"> <li>117.9 CH-126X</li> <li>NRE</li> <li>35°46'56"N/140°21'45"E</li> <li>200FT</li> </ul>		

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

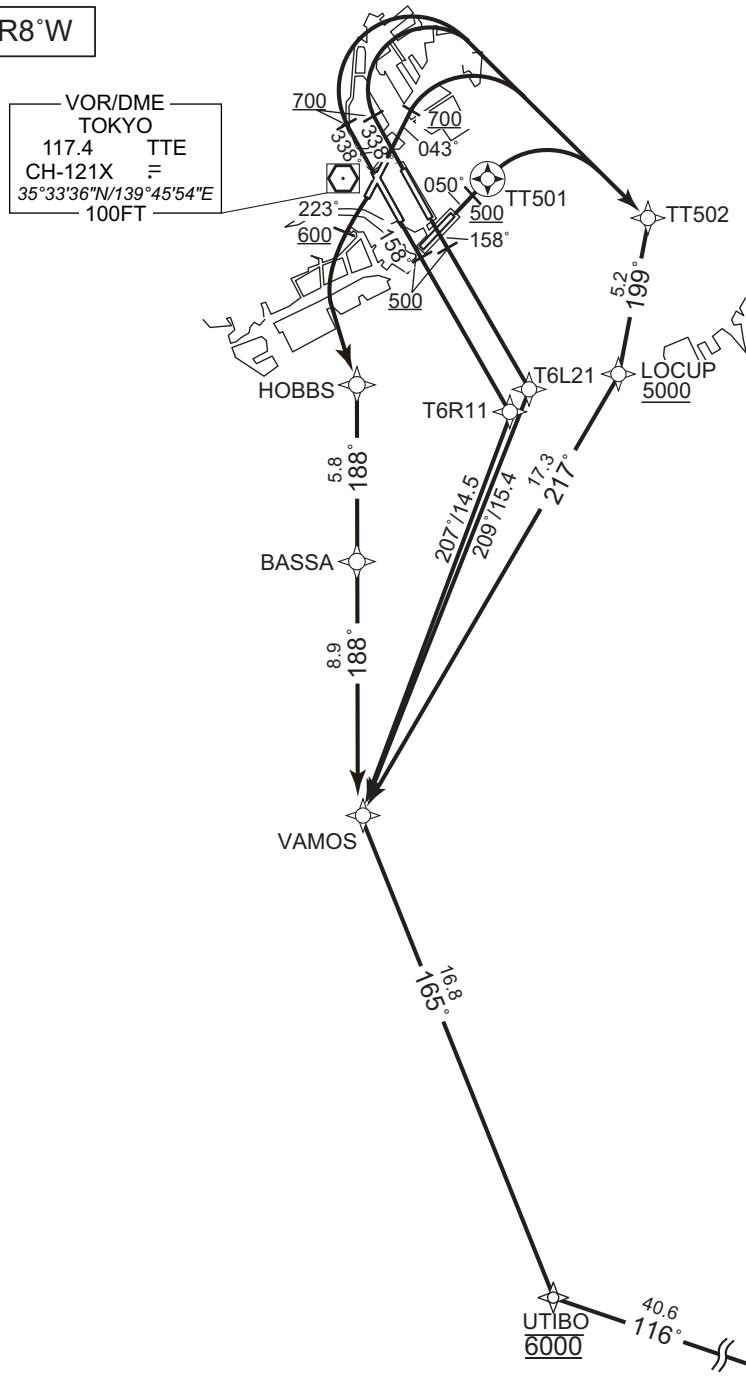
STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RUTAS 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 : TTE 1.2NM FM DER - 5.0NM to T6R11 RWY34R : TET 2.5NM FM DER - 10.0NM to TT502 RWY34L : TET 2.9NM FM DER - 7.3NM to TT502 RWY22 : HYD 5.0NM to HOBBS - 4.0NM to HOBBS TET 5.0NM to HOBBS - 4.0NM to HOBBS
DME GAP		
Inappropriate Navaids See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8°W



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

**RUTAS FOUR 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.

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

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RUTAS 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	—	—	—	—	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

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

CHANGE : PROC renamed.

## STANDARD DEPARTURE CHART-INSTRUMENT

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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	—	—	—	—	RNAV1
006	TF	UTIBO	—	165 (157.0)	-7.9	16.8	—	6000	—	—	RNAV1
007	TF	RUTAS	—	116 (108.4)	-7.9	40.6	—	—	—	—	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	—	—	—	—	RNAV1
005	TF	UTIBO	—	165 (157.0)	-7.9	16.8	—	6000	—	—	RNAV1
006	TF	RUTAS	—	116 (108.4)	-7.9	40.6	—	—	—	—	RNAV1

CHANGE : RWY22 established. BASSA, HOBBS added.

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
RUTAS	344349.3N / 1404034.2E	UTIBO	345647.0N / 1395343.9E
T6L21	352639.1N / 1395222.0E	VAMOS	351215.5N / 1394543.6E

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

GUSRO ONE DEPARTURE

RNAV1

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

※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling.

2) RADAR service required.

DME GAP  
RWY16R : DER - 1.2NM FM DER  
RWY16L : DER - 1.0NM FM DER  
RWY34R : DER - 0.2NM FM DER  
RWY34L : DER - 0.4NM FM DER  
RWY04 : DER - 1.0NM FM DER  
RWY22 : DER - 1.0NM FM DER

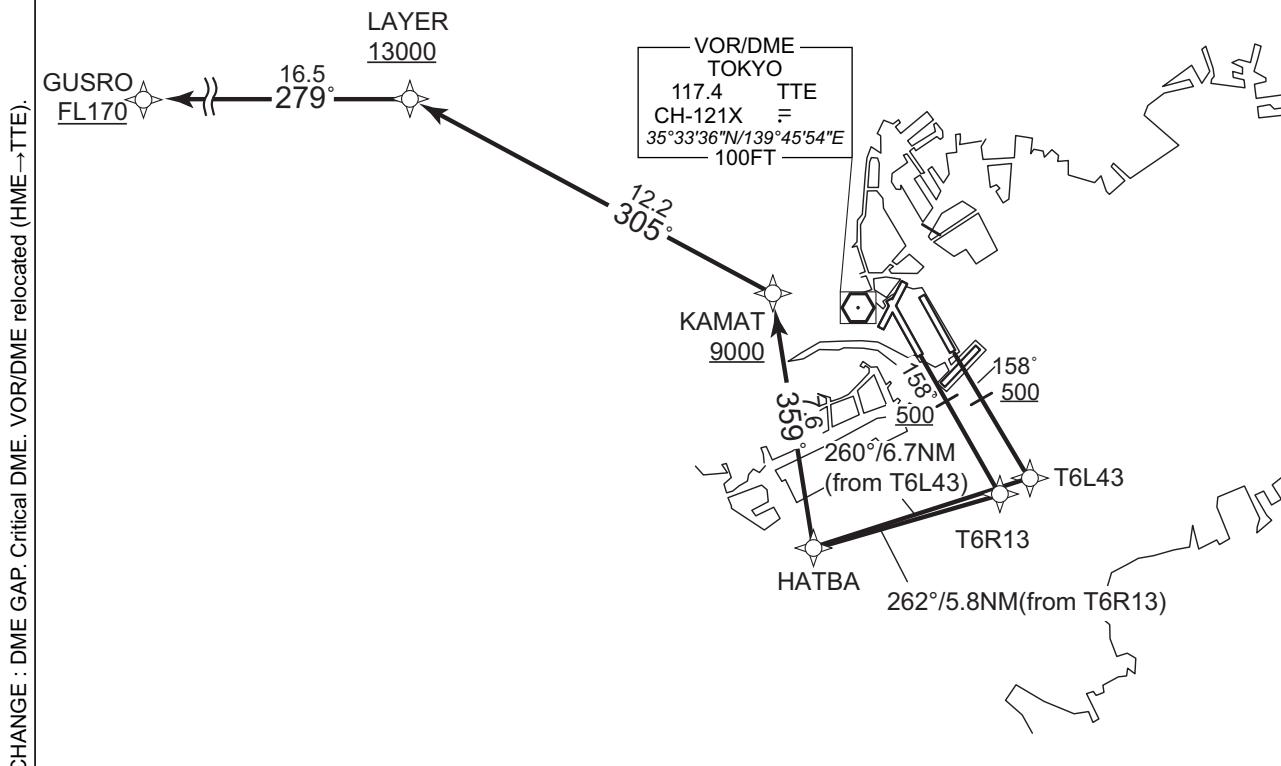
Critical DME

RWY16R : TTE 1.2NM FM DER – 2.5NM to T6R13  
RWY34R : TET 2.5NM FM DER - 10.0NM to TT502  
RWY34L : TET 2.9NM FM DER - 7.3NM to TT502  
RWY22 : HYD 5.0NM to HOBBS - 4.0NM to HOBBS  
TET 5.0NM to HOBBS - 4.0NM to HOBBS

Inappropriate Navaids  
See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

VAR8°W

GUSRO ONE DEPARTURE RWY16R/16L

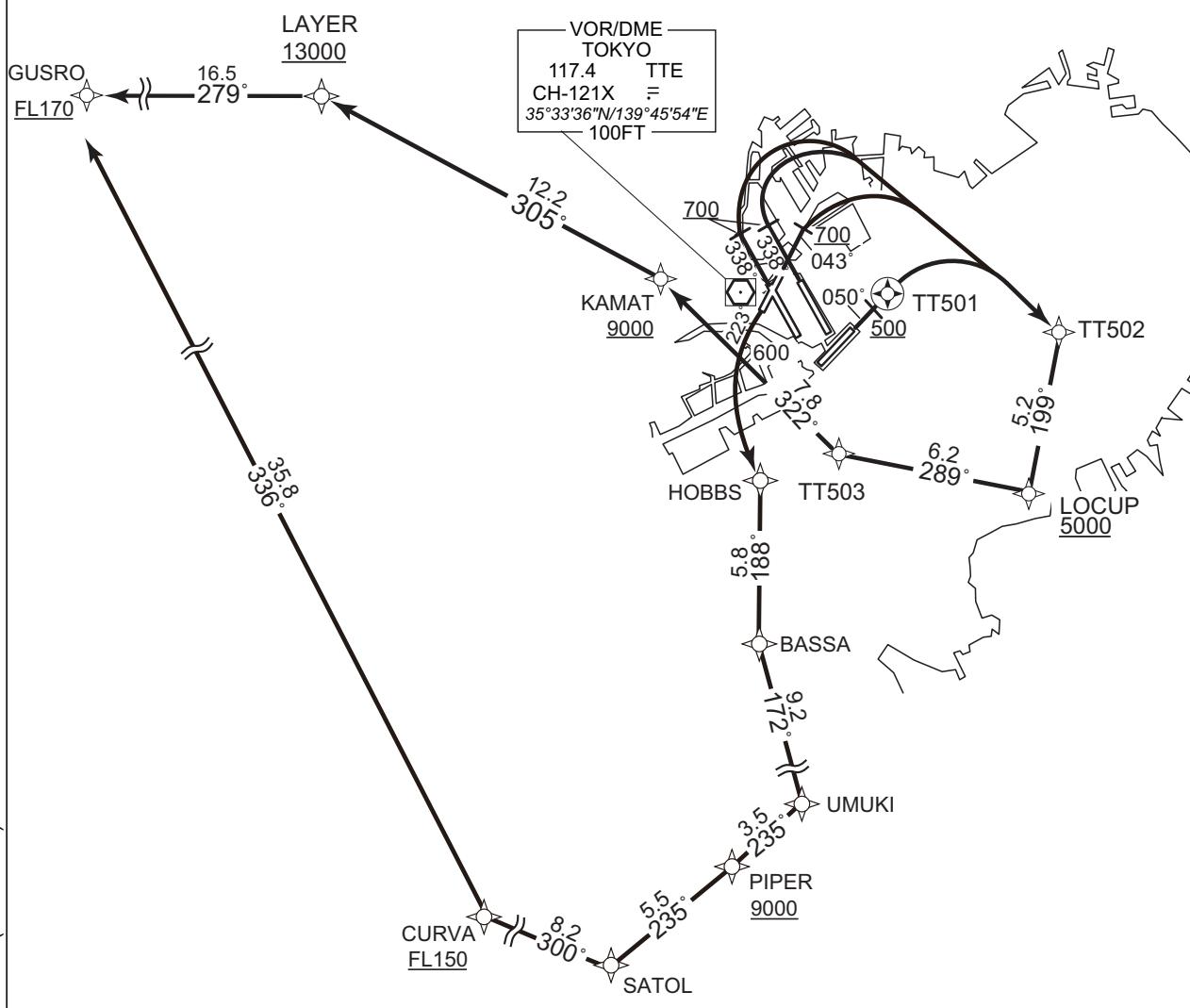


## STANDARD DEPARTURE CHART-INSTRUMENT

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

## 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

## 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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

STAR

SULPU 1S ARRIVAL

From over SULPU, via TTE R037 to intercept and proceed via TTE 22.0DME clockwise ARC to SAPTI.

Cross SULPU at 11000FT, cross TTE R037/28.0DME at or above 8000FT.

SULPU 1D ARRIVAL

From over SULPU, via TTE R037 to TTE 22.0DME, via TTE 22.0DME clockwise ARC to intercept and proceed via ITL LOC course to DOYLE.

Cross SULPU at 11000FT, cross TTE R037/28.0DME at or above 8000FT.

OLRAT 1A ARRIVAL

From over OLRAT, via TTE R157 to ARLON.

Cross OLRAT at 10000FT.

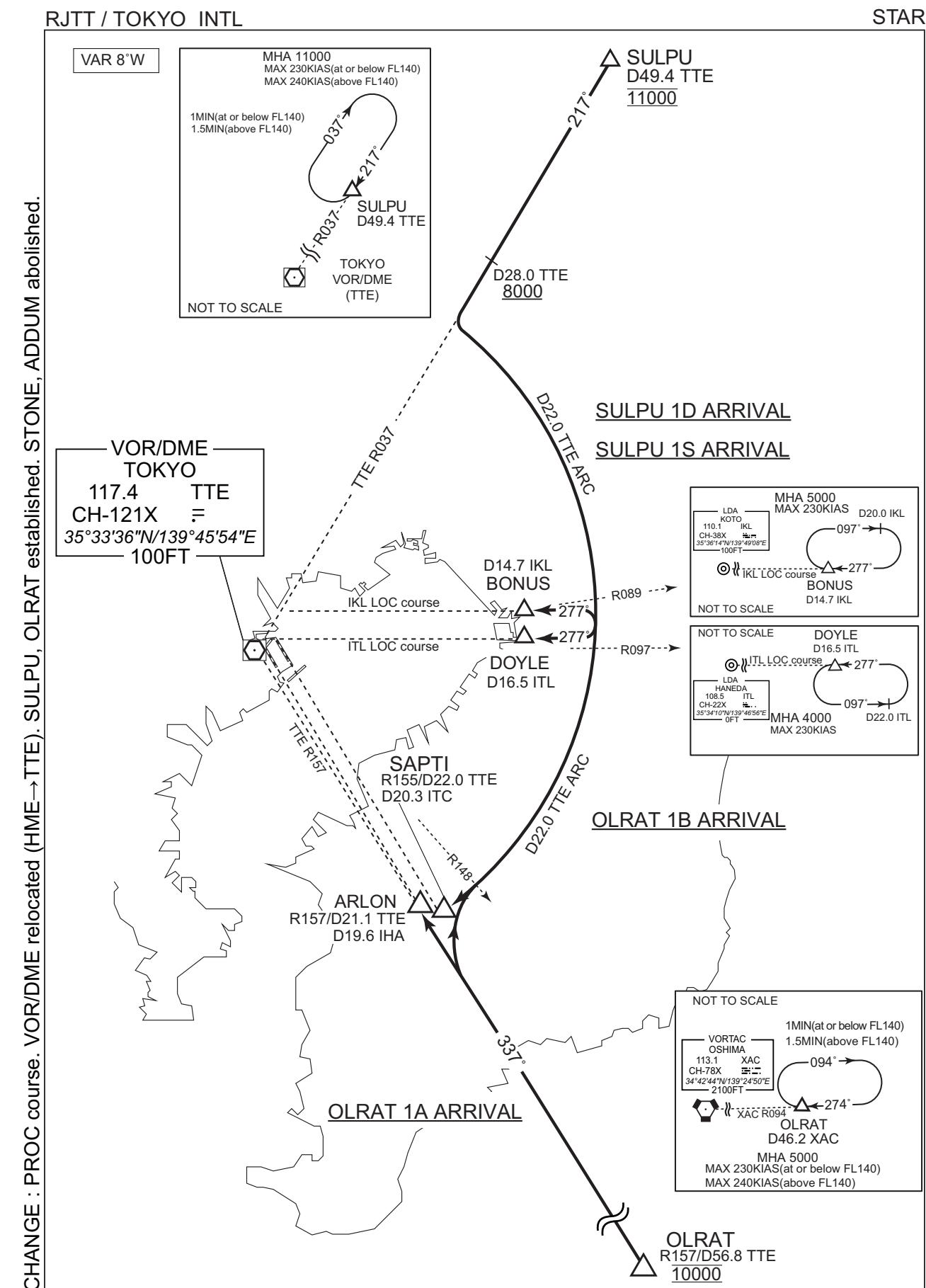
OLRAT 1B ARRIVAL

From over OLRAT, via TTE R157 to TTE 22.0DME, via TTE 22.0DME counterclockwise ARC to intercept and proceed via IKL LOC course to BONUS.

Cross OLRAT at 10000FT.

CHANGE : SINGO ARRIVAL, OLRAT 1A/1B ARRIVAL established. VOR/DME relocated (HME→TTE).  
SULPU 1S/1D ARRIVAL, OLRAT 1A/1B ARRIVAL established. VOR/DME relocated. VOR/DME established. VOR/DME relocated (HME→TTE).  
ADDUM ARRIVAL, BONUS ARRIVAL abolished.

## STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1A ARRIVAL / OSHIMA 1K ARRIVAL  
OSHIMA 2C 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)



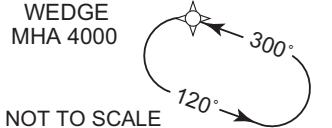
NOT TO SCALE

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



NOT TO SCALE

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

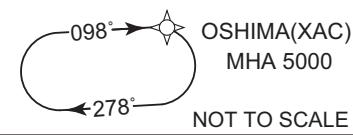


VORTAC  
OSHIMA  
XAC  
CH-78X  
34°42'44"N/139°24'50"E  
2100FT

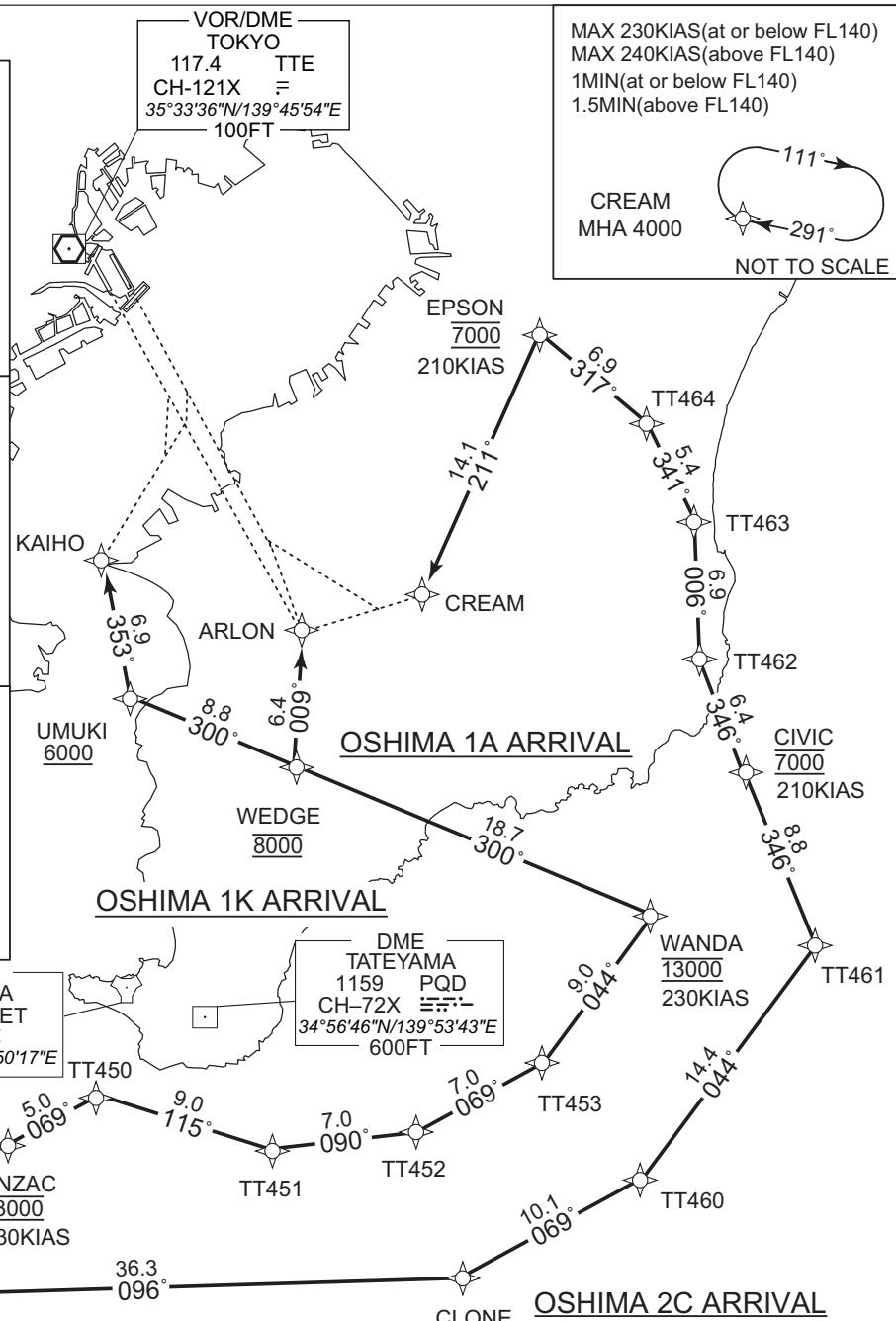
TACAN  
TATEYAMA  
986  
CH-25X  
34°58'15"N/139°50'17"E  
500FT

CHANGE : VORDME relocated (HME → TTE).

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



NOT TO SCALE

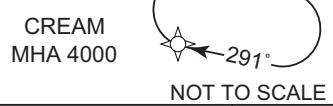


MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)



NOT TO SCALE

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



NOT TO SCALE

## 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

RJTT / TOKYO INTL

AKSEL 1A ARRIVAL / AKSEL 1K ARRIVAL  
AKSEL 2C ARRIVAL

RNAV STAR RWY34R/34L

RNAV 1

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

VAR 8° W

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X =  
35°33'36"N/139°45'54"E  
100FT

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

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

WEDGE  
MHA 4000

NOT TO SCALE

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

AKSEL  
MHA 5000

NOT TO SCALE

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

CREAM  
MHA 4000  
NOT TO SCALE

EPSON  
7000  
210KIAS

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

AKSEL1A ARRIVAL

AKSEL1K ARRIVAL

DME

TATEYAMA

1159 PQD

CH-72X =

600FT

AKSEL  
12000 (for AKSEL 1A ARRIVAL, AKSEL 1K ARRIVAL)  
230KIAS (for AKSEL 1A ARRIVAL, AKSEL 1K ARRIVAL)

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

CIVIC  
MHA 4000

NOT TO SCALE

CHANGE : VORDME relocated (HME→TTE).

## 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

AROSA 1A ARRIVAL / AROSA 1K ARRIVAL  
AROSA 2C ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X  
35°33'36"N/139°45'54"E  
100FT

AROSA 1K ARRIVAL

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

NOT TO SCALE

CHANGE : VOR/DME relocated (HME → TTE).

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

AROSA 1A ARRIVAL

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

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  
NOT TO SCALE

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

AVEEY  
MHA 5000  
NOT TO SCALE

AROSA 2C ARRIVAL

EPSON  
7000  
210KIAS

TT464  
317°  
211°  
141°

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

CREAM  
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

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

TT463  
009°  
6.9°  
341°  
54°

TT462  
346°  
6.4°  
009°  
6.9°

CIVIC  
7000  
210KIAS

TT461  
346°  
8.8°  
044°  
144°

TT460  
044°  
144°  
352°  
7.2°

AVEEY  
11000  
230KIAS

TT459  
295°  
10.4°  
270°  
8.2°

TT458  
286°  
7.4°  
270°  
8.2°

TT457  
325°  
1.2°  
352°  
7.2°

TT456  
346°  
166°  
346°  
166°

TT455  
278°  
16.4°  
278°  
16.4°

AROSA  
11000  
230KIAS

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

WEDGE  
MHA 4000  
NOT TO SCALE

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

AVEEY  
MHA 5000  
NOT TO SCALE

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

CIVIC  
MHA 4000  
NOT TO SCALE

## 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

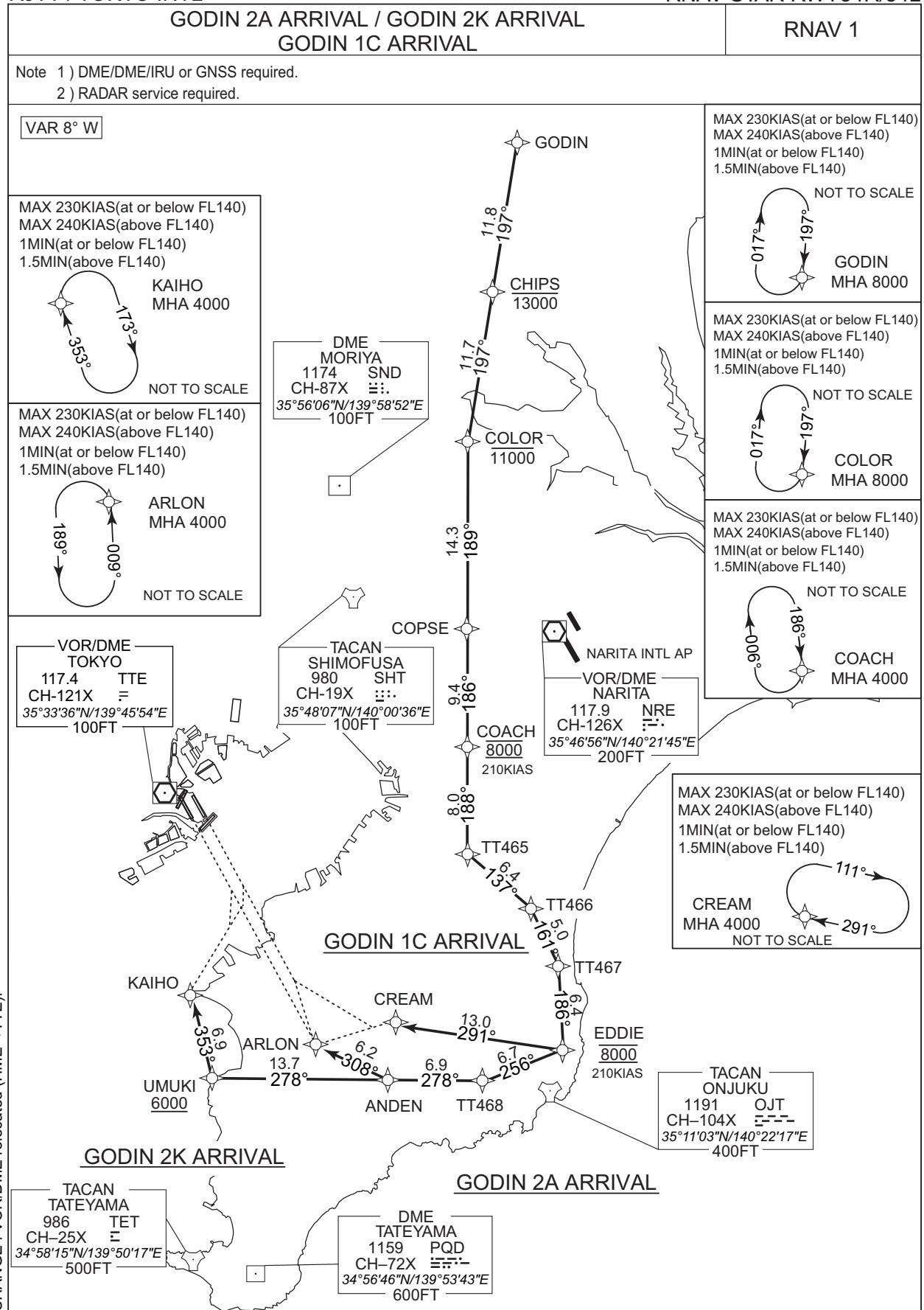
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARLON	351525.3N / 1395859.8E	TT459	344712.8N / 1395716.3E
AROSA	344201.7N / 1404157.3E	TT460	344852.6N / 1401936.8E
AVEEY	344155.9N / 1402158.0E	TT461	350030.2N / 1402957.9E
CIVIC	350840.6N / 1402552.1E	TT462	351433.3N / 1402254.8E
CREAM	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



## 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

POLIX 2A ARRIVAL / POLIX 2K ARRIVAL  
POLIX 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)

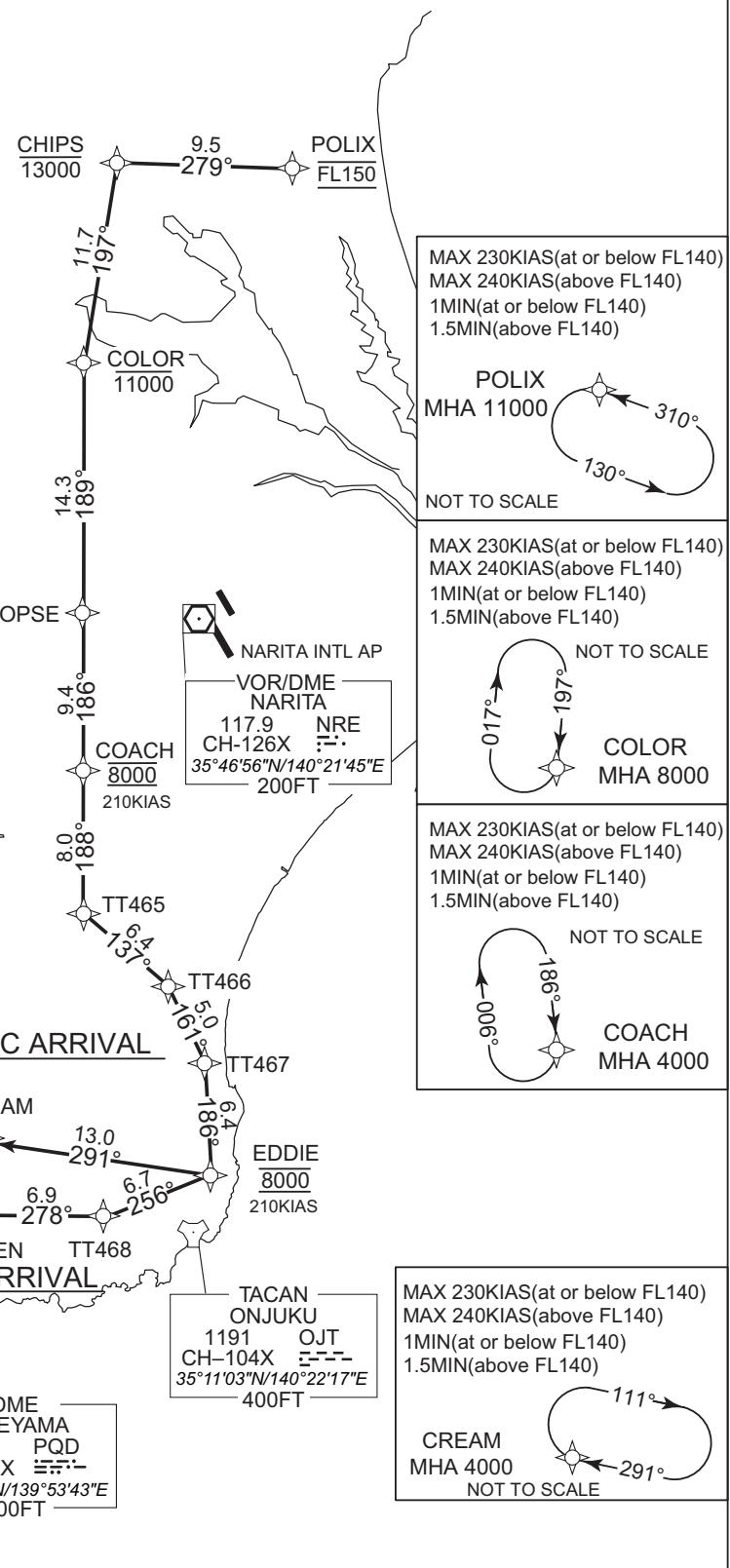
KAIHO  
MHA 4000

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



## 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

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X =  
35°33'36"N/139°45'54"E  
100FT

Using NAVAID

NOT TO SCALE  
VOR/DME  
TOKYO  
117.4 TTE  
CH-121X =  
35°33'36"N/139°45'54"E  
100FT

CACAO  
D13.8 TTE  
333° 153° 153° D19.0 TTE

MHA 4000/MAX 230KIAS

CACAO  
CAMEL  
CREAM  
CLOAK

VORTAC  
OSHIMA  
113.1 XAC  
CH-78X =  
34°42'44"N/139°24'50"E  
2100FT

OSHIMA 2H ARRIVAL

OSHIMA  
(XAC)

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

CREAM  
MHA 4000  
NOT TO SCALE

111°  
291°

EPSON  
7000  
210KIAS

TT464  
317° 316° 341° 5° 341° 346°

TT463  
900 6° 6° 6° 6°

TT462  
TT461  
CIVIC  
7000  
210KIAS

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

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

TT460  
10° 069° 144° 044°

AVEEY  
11000  
230KIAS

16.4 278°  
AROSA  
AROSA 2H ARRIVAL

CHANGE : VOR/DME relocated (HME→TTE), HLDG pattern at CACAO.

RNAV HLDG

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

098° 36.3° 096° 14.8° 085°  
OSHIMA(XAC)  
MHA 5000  
NOT TO SCALE

RNAV HLDG

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

AKSEL  
MHA 5000  
039° 219°  
NOT TO SCALE

RNAV HLDG

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

134° 314°  
AVEEY  
MHA 5000  
NOT TO SCALE

## 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

RJTT / TOKYO INTL

GODIN 1H ARRIVAL  
POLIX 1H ARRIVAL

RNAV STAR RWY34R/34L

RNAV 1

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

2 ) RADAR service required.

VAR 8° W

GODIN 1H ARRIVAL

GODIN

CHIPS  
13000

11.8  
197°  
9.5  
279°  
POLIX  
FL150

RNAV HLDG

NOT TO SCALE  
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

017°  
197°  
GODIN  
MHA 8000

CACAO  
33.7  
33.8  
3.0  
3.8  
CAMEL  
30.8  
24.8  
CREAM  
3.8  
CLOAK

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X  
35°33'36"N/139°45'54"E  
100FT

CHANGE : VOR/DME relocated (HME → TTE), HLDG pattern at CACAO.

Using NAVAID

NOT TO SCALE

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X  
35°33'36"N/139°45'54"E  
100FT

D13.8 TTE  
CACAO  
D19.0 TTE  
333°  
153°  
R-153

MHA 4000/MAX 230KIAS

COPSE

COACH  
8000  
210KIAS

14.3  
189°  
11.7  
197°  
9.4  
186°  
8.0  
188°

TT465  
73.4°

TT466  
73.0°

TT467  
61.5°

CREAM  
13.0  
291°  
CAMEL  
CLOAK  
EDDIE  
8000  
210KIAS

RNAV HLDG

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

POLIX  
MHA 11000  
310°  
73.0°  
NOT TO SCALE

RNAV HLDG

NOT TO SCALE  
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

017°  
197°  
COLOR  
MHA 8000  
NOT TO SCALE

RNAV HLDG

NOT TO SCALE  
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

900°  
98.1°  
COACH  
MHA 4000  
NOT TO SCALE

RNAV HLDG

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

CREAM  
MHA 4000  
NOT TO SCALE  
111°  
291°

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

## 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

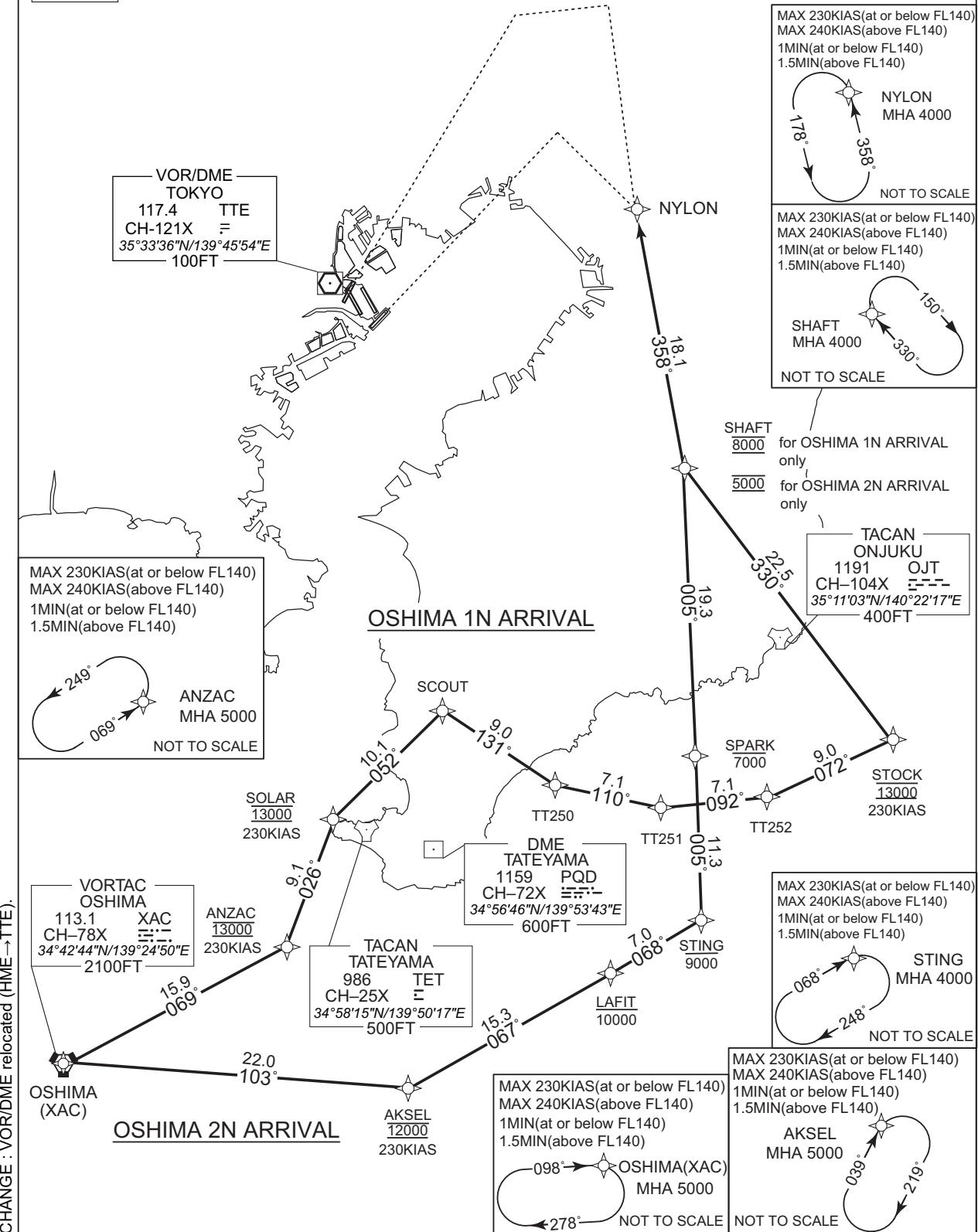
## RNAV STAR RWY22/23

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

RNAV 1

VAP 8° W

VAR 8 W



## 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

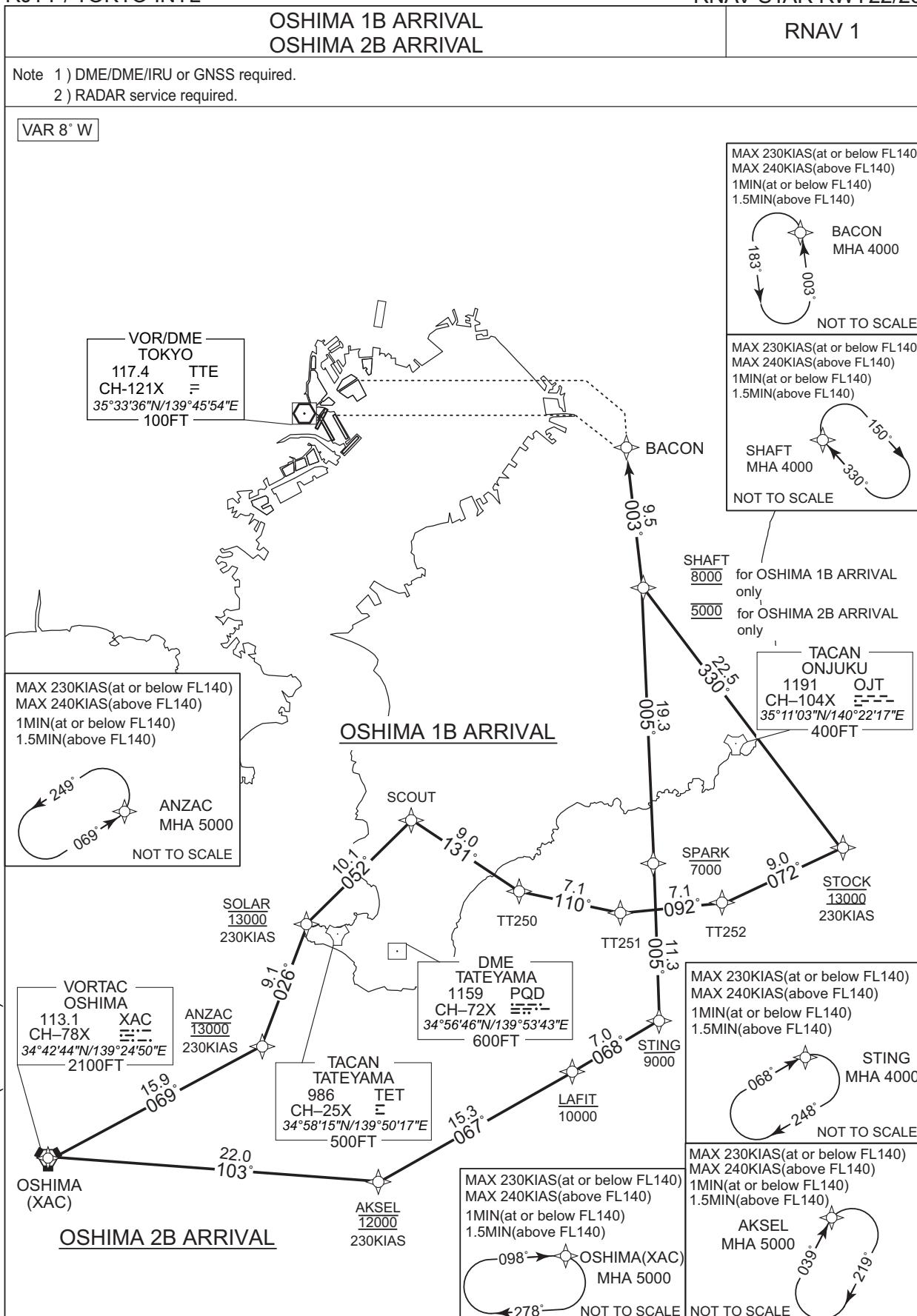
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	SPARK	350312.0N / 1401416.7E
ANZAC	345028.8N / 1394146.7E	STOCK	350438.7N / 1403002.9E
LAFIT	344826.0N / 1400732.4E	STING	345157.9N / 1401453.4E
NYLON	354018.5N / 1400919.9E	TT250	350129.7N / 1400308.5E
SCOUT	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 : VOR/DME relocated (HME→TTE).

## 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

RJTT / TOKYO INTL

AKSEL 1N ARRIVAL  
AKSEL 2N ARRIVAL

RNAV STAR RWY22/23

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

VAR 8° W

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X  $\Sigma$   
35°33'36"N/139°45'54"E  
100FT

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

RNAV 1

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

NOT TO SCALE

SHAFT MHA 4000

NOT TO SCALE

NYLON

SHAFT  
8000  
5000

for AKSEL 1N ARRIVAL only  
for AKSEL 2N ARRIVAL only

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

AKSEL 1N ARRIVAL

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

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

SPARK  
7000

STOWE  
12000

230KIAS

TT253  
7.6  
TT254  
7.6  
TT255  
7.6

092°  
092°  
092°

000  
000  
000

05°  
05°  
05°

110°  
110°  
110°

048°  
048°  
048°

8.5  
8.5  
8.5

023  
023  
023

13.4  
13.4  
13.4

067  
067  
067

15.3  
15.3  
15.3

068  
068  
068

1.0  
1.0  
1.0

LAFIT  
10000

STING  
9000

AKSEL  
12000

230KIAS

CHANGE : VOR/DME relocated (HME → TTE).

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

AKSEL  
MHA 5000

039  
219°

NOT TO SCALE

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

STING

MHA 4000

068°  
248°

NOT TO SCALE

## 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

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

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		

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL  
AKSEL 2B ARRIVAL

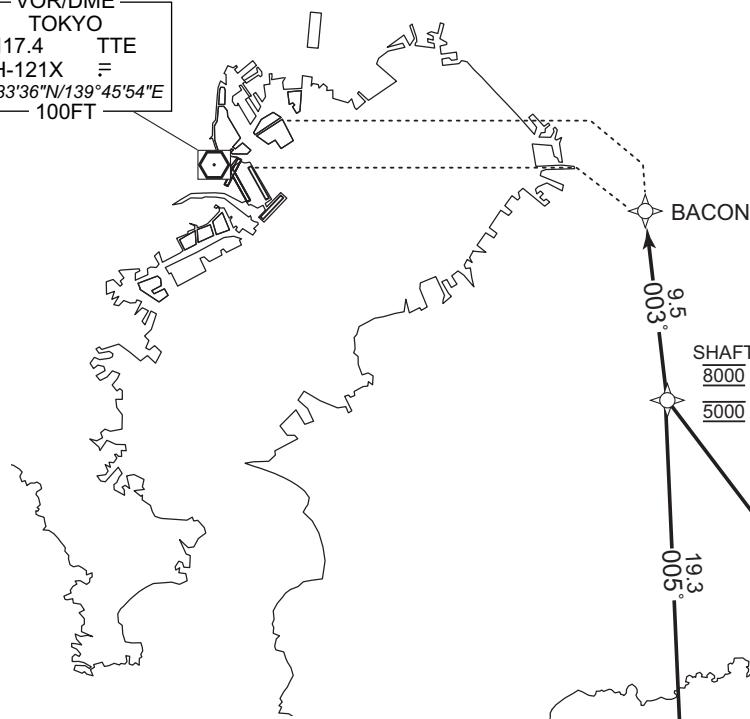
RNAV 1

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

2) RADAR service required.

VAR 8° W

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X =  
35°33'36"N/139°45'54"E  
100FT



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

BACON  
MHA 4000  
NOT TO SCALE

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

SHAFT  
MHA 4000  
NOT TO SCALE

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

CHANGE : VOR/DME relocated (HME→TTE).

AKSEL  
12000  
230KIAS

13.4 023°  
8.5 048°  
11.0 110°  
7.6 092°  
7.6 092°  
11.5 005°

AKSEL 2B ARRIVAL

STING  
9000

1.0 068°  
15.3 067°  
LAFIT  
10000

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

STING  
MHA 4000  
NOT TO SCALE

## 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

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X =  
35°33'36"N/139°45'54"E  
100FT

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

NYLON  
MHA 4000

NOT TO SCALE

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

SHAFT  
MHA 4000

NOT TO SCALE

AROSA 1N 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

SLICK  
11000  
230KIAS

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

NOT TO SCALE

for AROSA 1N ARRIVAL only

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

AVEEY  
MHA 5000  
NOT TO SCALE

AROSA 1N ARRIVAL

TT256  
ALDEN  
11000  
230KIAS

AROSA 2N ARRIVAL

SPARK  
005  
STING  
9000  
11.3  
005  
11.3  
338°  
AVEEY  
11000  
230KIAS

9000 for AROSA 2N ARRIVAL only

16.4  
278°  
AVEEY  
11000  
230KIAS  
AROSA

CHANGE : VORDME relocated (HME → TTE).

## 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

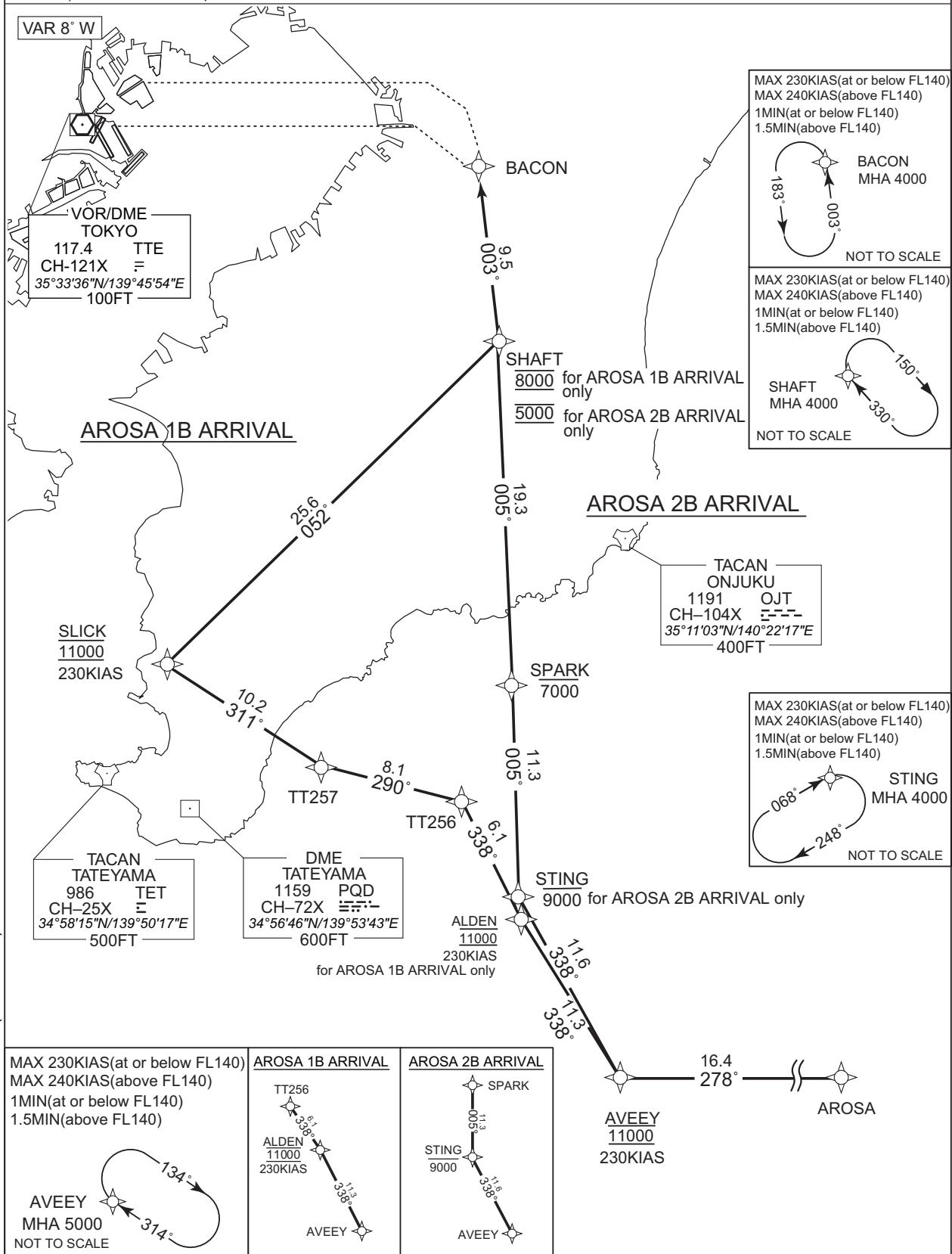
RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1B ARRIVAL  
AROSA 2B ARRIVAL

RNAV 1

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



## 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

RJTT / TOKYO INTL

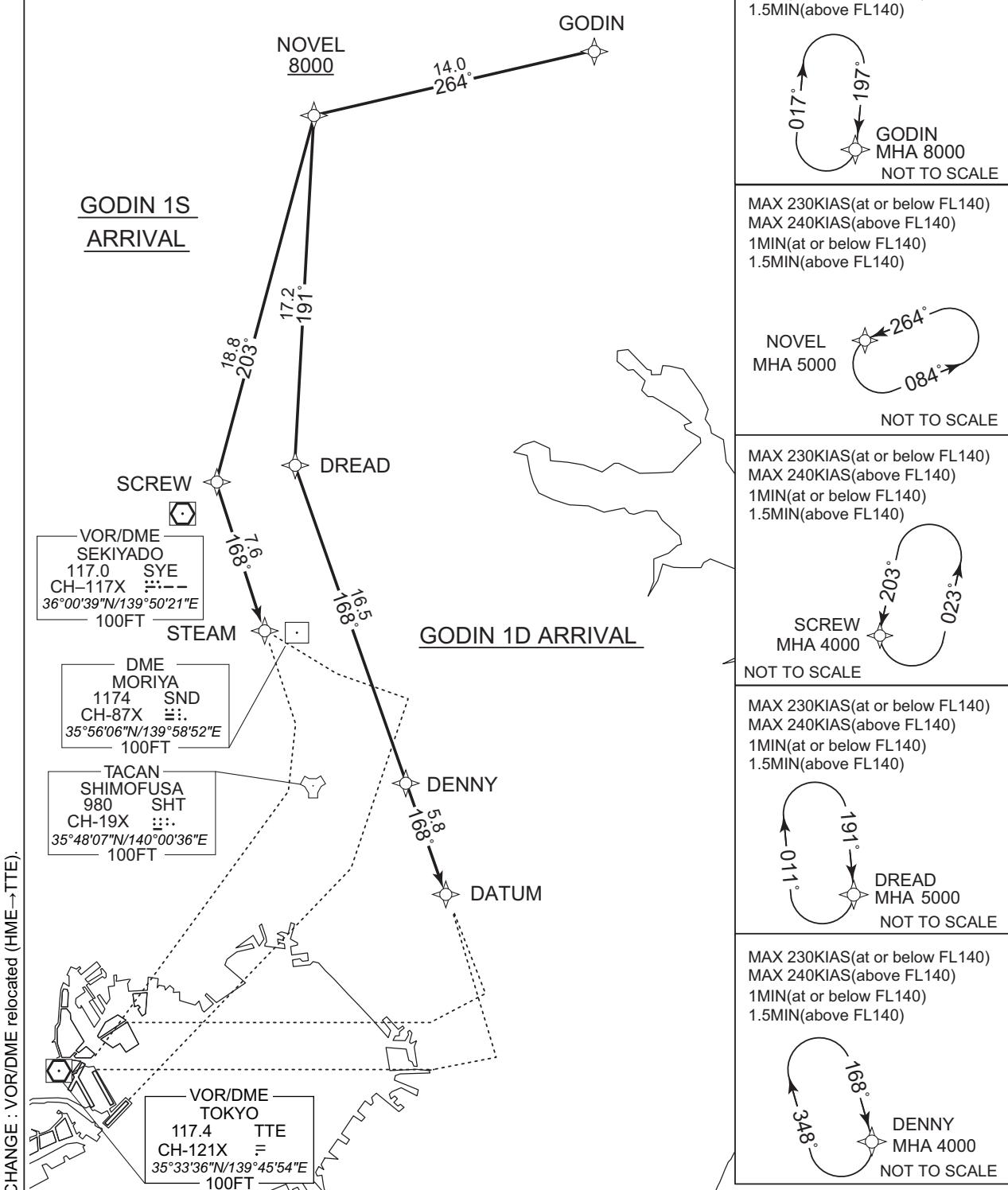
GODIN 1S ARRIVAL  
GODIN 1D ARRIVAL

RNAV STAR RWY22/23

RNAV 1

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

VAR 8° W



## 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

CHANGE : VAR.

## 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

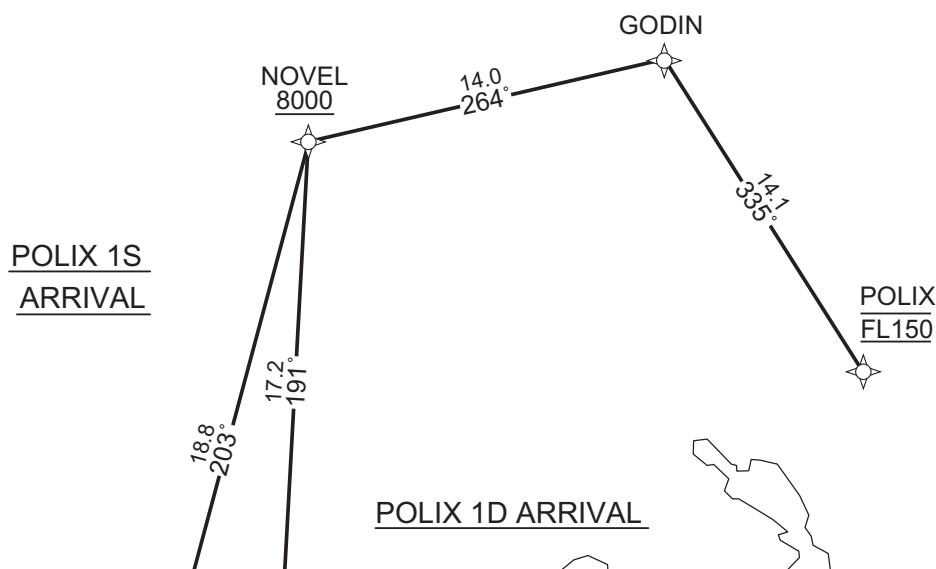
POLIX 1S ARRIVAL  
POLIX 1D ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W



VOR/DME  
SEKIYADO  
117.0 SYE  
CH-117X  
36°00'39"N/139°50'21"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

CHANGE : VOR/DME relocated (HME→TTE).

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X  
35°33'36"N/139°45'54"E  
100FT

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)

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)

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)

NOT TO SCALE

NOT TO SCALE

## 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

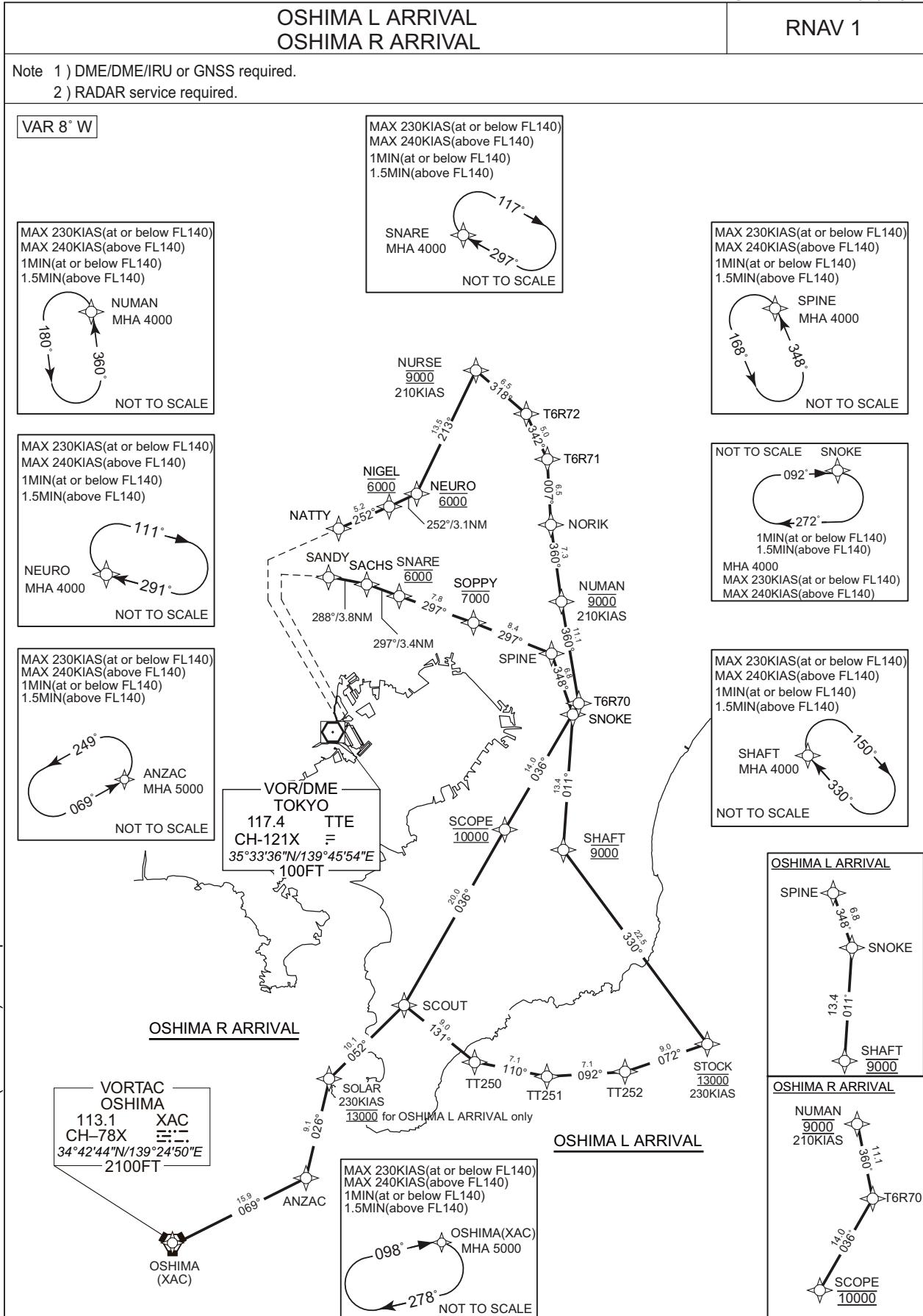
Waypoint Coordinates

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



## 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	SNOKE	092 (084.2)	-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 : HLDG pattern for SNOKE established.

## 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

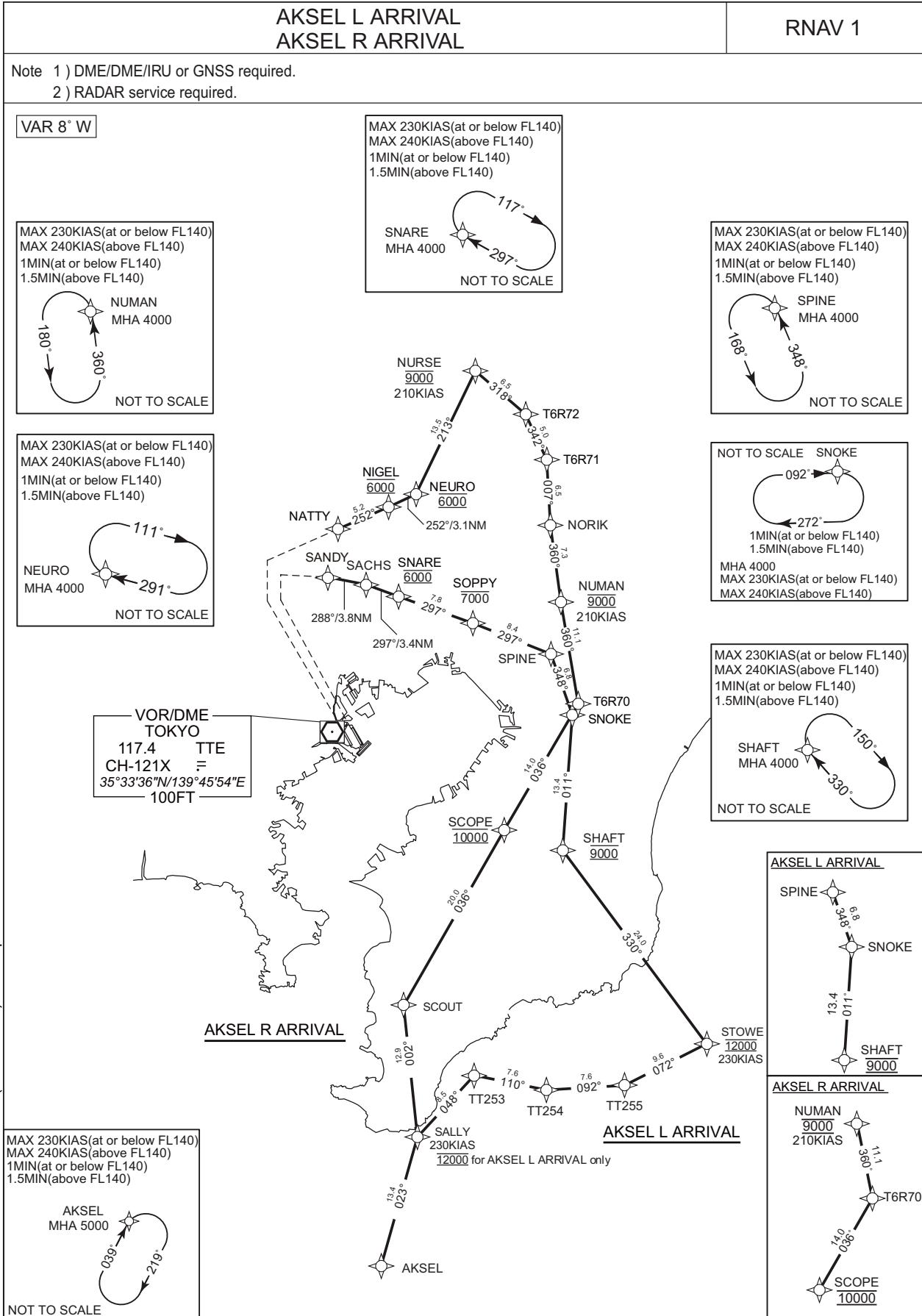
Waypoint Coordinates

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



CHANGE : VORDME relocated (HME → TTE). HLDG pattern for SNOKE established.

## 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 : HLDG pattern for SNOKE established.

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	SNOKE	092 (084.2)	-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

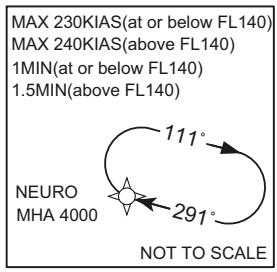
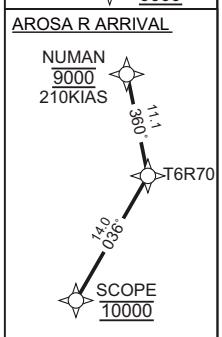
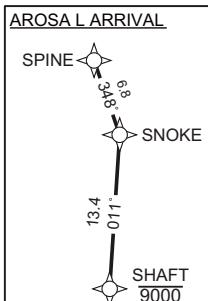
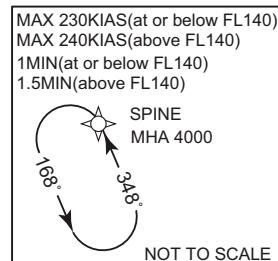
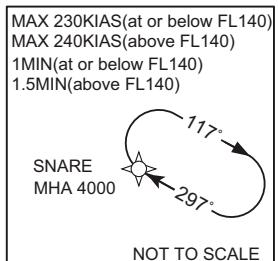
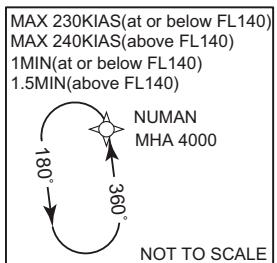
RNAV STAR RWY16L/16R

AROSA L ARRIVAL  
AROSA R ARRIVAL

RNAV 1

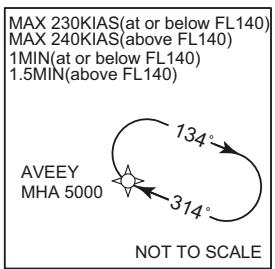
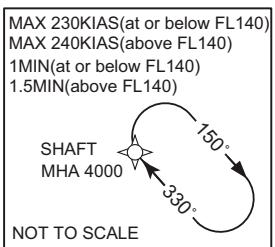
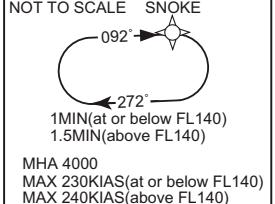
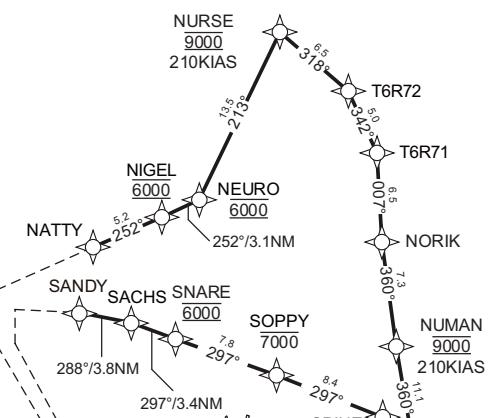
- Note 1) DME/DME/IRU or GNSS required.  
2) RADAR service required.

VAR 8° W



VOR/DME  
TOKYO  
117.4 TTE  
CH-121X =  
35°33'36"N/139°45'54"E  
100FT

CHANGE : VOR/DME relocated (HIME→TTE), HLDG pattern for SNOKE established.



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

CHANGE : HLDG pattern for SNOKE established.

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	SNOKE	092 (084.2)	-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

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

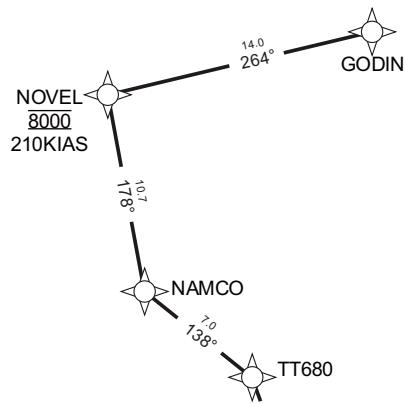
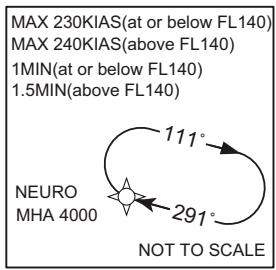
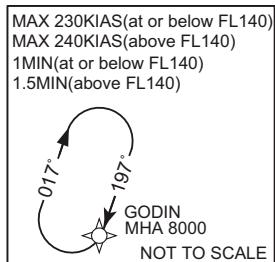
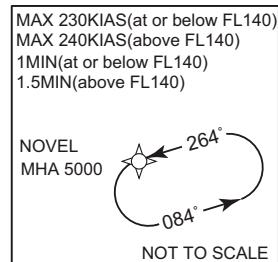
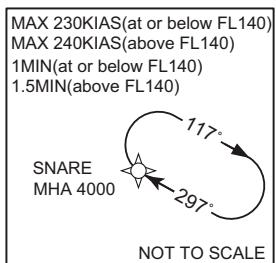
GODIN L ARRIVAL  
GODIN R ARRIVAL

RNAV STAR RWY16L/16R

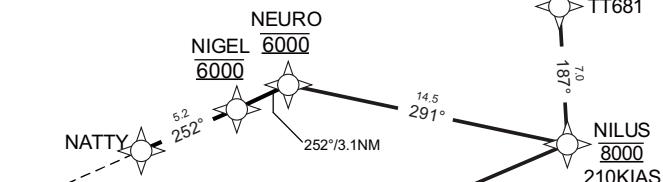
RNAV 1

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

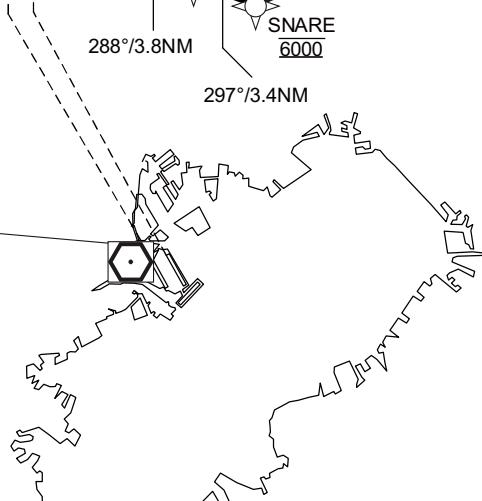
VAR 8° W



GODIN R ARRIVAL



GODIN L ARRIVAL



CHANGE : VOR/DME relocated (HME→TTE),

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X =  
35°33'36"N/139°45'54"E  
100FT

## 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

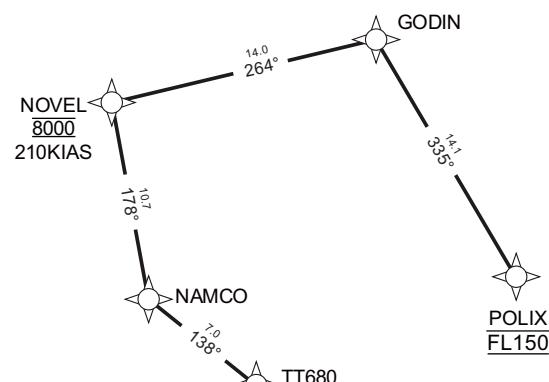
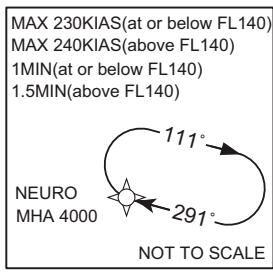
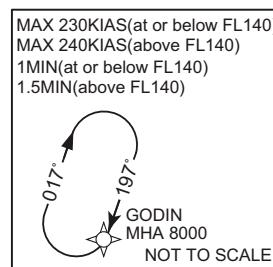
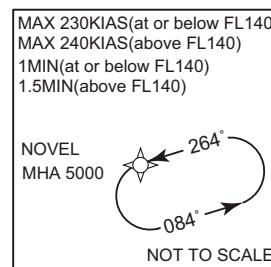
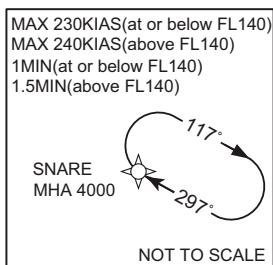
RNAV STAR RWY16L/16R

RNAV 1

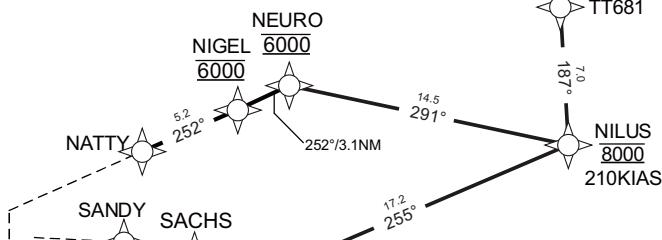
Note 1 ) DME/DME/IRU or GNSS required.

2 ) RADAR service required.

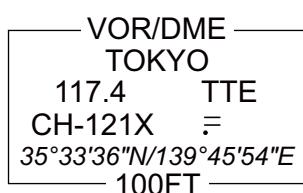
VAR 8° W



POLIX R ARRIVAL



POLIX L ARRIVAL



CHANGE : VOR/DME relocated (HME → TTE).

## 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

RJTT / TOKYO INTL

RNAV STAR

OSHIMA NIGHT ARRIVAL / AKSEL NIGHT ARRIVAL  
AROSA NIGHT ARRIVAL / MESSE NIGHT ARRIVAL

RNAV 1

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

VAR 8° W

VOR/DME  
TOKYO  
117.4 TTE  
CH-121X =  
35°33'36"N/139°45'54"E  
100FT

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

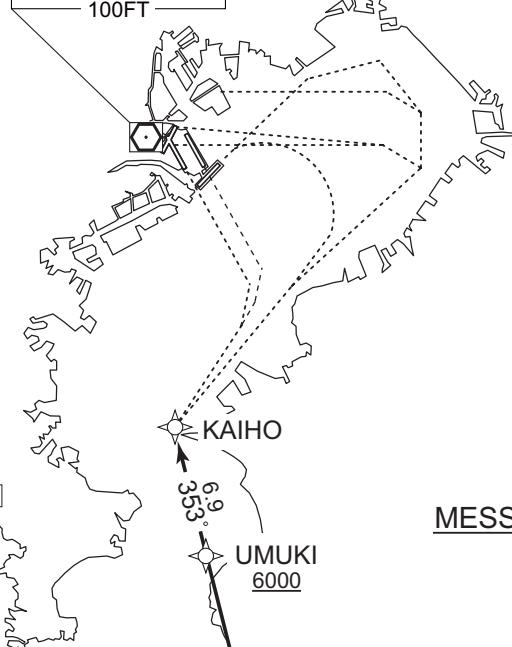
DME  
YOKOSUKA  
1196 HYD  
CH-109X =  
35°15'20"N/139°35'15"E  
500FT

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

OSHIMA NIGHT ARRIVAL

VORTAC  
OSHIMA  
113.1 XAC  
CH-78X =  
34°42'44"N/139°24'50"E  
2100FT

OSHIMA  
(XAC)



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

MESSE  
MHA 6000

RNAV 1

RNAV 1

NOT TO SCALE

NOT TO SCALE  
UTIBO  
178° 358°  
1MIN(at or below FL140)  
1.5MIN(above FL140)

MHA 5000  
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)

MESSE NIGHT ARRIVAL

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

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

AKSEL

AKSEL NIGHT ARRIVAL

AROSA NIGHT ARRIVAL

AVEEY

16.4 278°

AROSA

CHANGE : VORDME relocated (HYD→TTE). HLDG pattern for UTIBO established.

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

OSHIMA(XAC)  
MHA 5000  
NOT TO SCALE

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

AKSEL  
MHA 5000  
NOT TO SCALE

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

AVEEY  
MHA 5000  
NOT TO SCALE

## 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	UTIBO	358 (350.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	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 : HLDG pattern for UTIBO established.

## 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	UTIBO	358 (350.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	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 : HLDG pattern for UTIBO established.

## 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	UTIBO	358 (350.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	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 : HLDG pattern for UTIBO established.

## 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

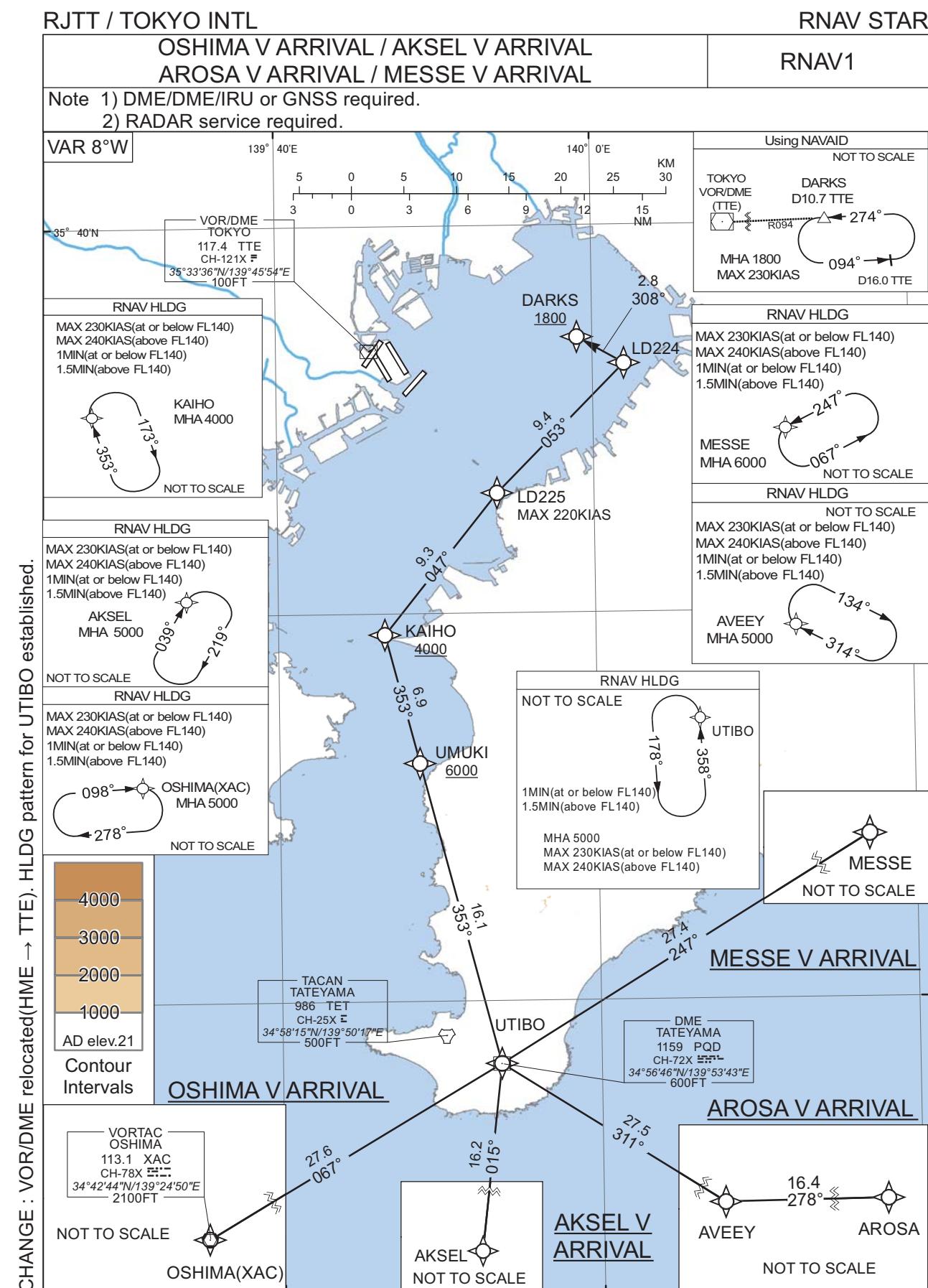
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	MESSE	247 (238.8)	-7.9	1.0(-14000) 1.5(+14001)	-	L	6000	-	-230(-14000) -240(+14001)	RNAV1
Hold	UTIBO	358 (350.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	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 : HLDG pattern for UTIBO established.

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	UTIBO	358 (350.2)	-7.9	1.0 (-14000) 1.5 (+14001)	-	L	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 : HLDG pattern for UTIBO established.

## 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	UTIBO	358 (350.2)	-7.9	1.0 (-14000) 1.5 (+14001)	-	L	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 : HLDG pattern for UTIBO established.

## 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	UTIBO	358 (350.2)	-7.9	1.0 (-14000) 1.5 (+14001)	-	L	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 : HLDG pattern for UTIBO established.

## 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

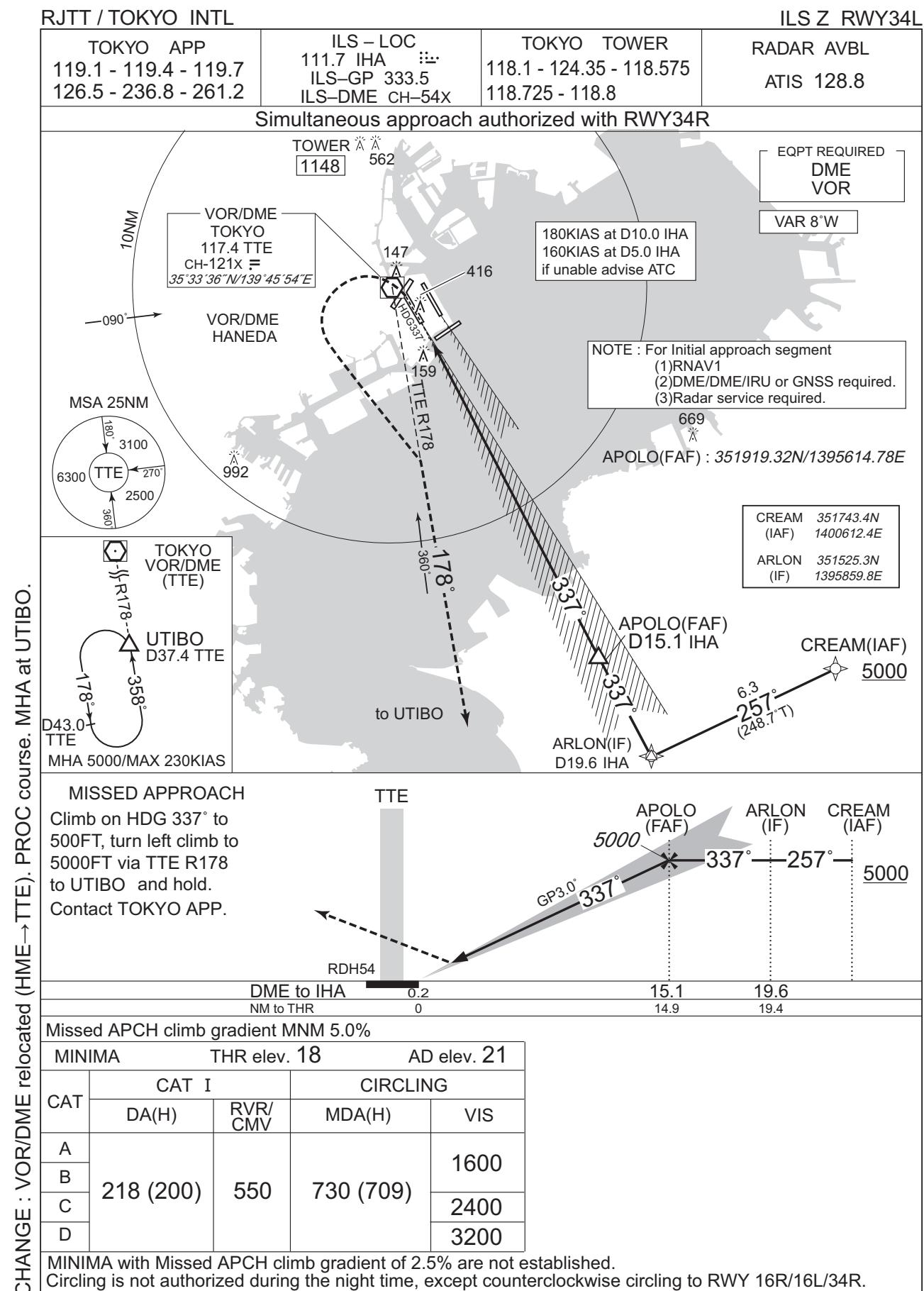
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	MESSE	247 (238.8)	-7.9	1.0 (-14000) 1.5 (+14001)	-	L	6000	-	-230 (-14000) -240 (+14001)	RNAV1
Hold	UTIBO	358 (350.2)	-7.9	1.0 (-14000) 1.5 (+14001)	-	L	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

Waypoint Coordinates

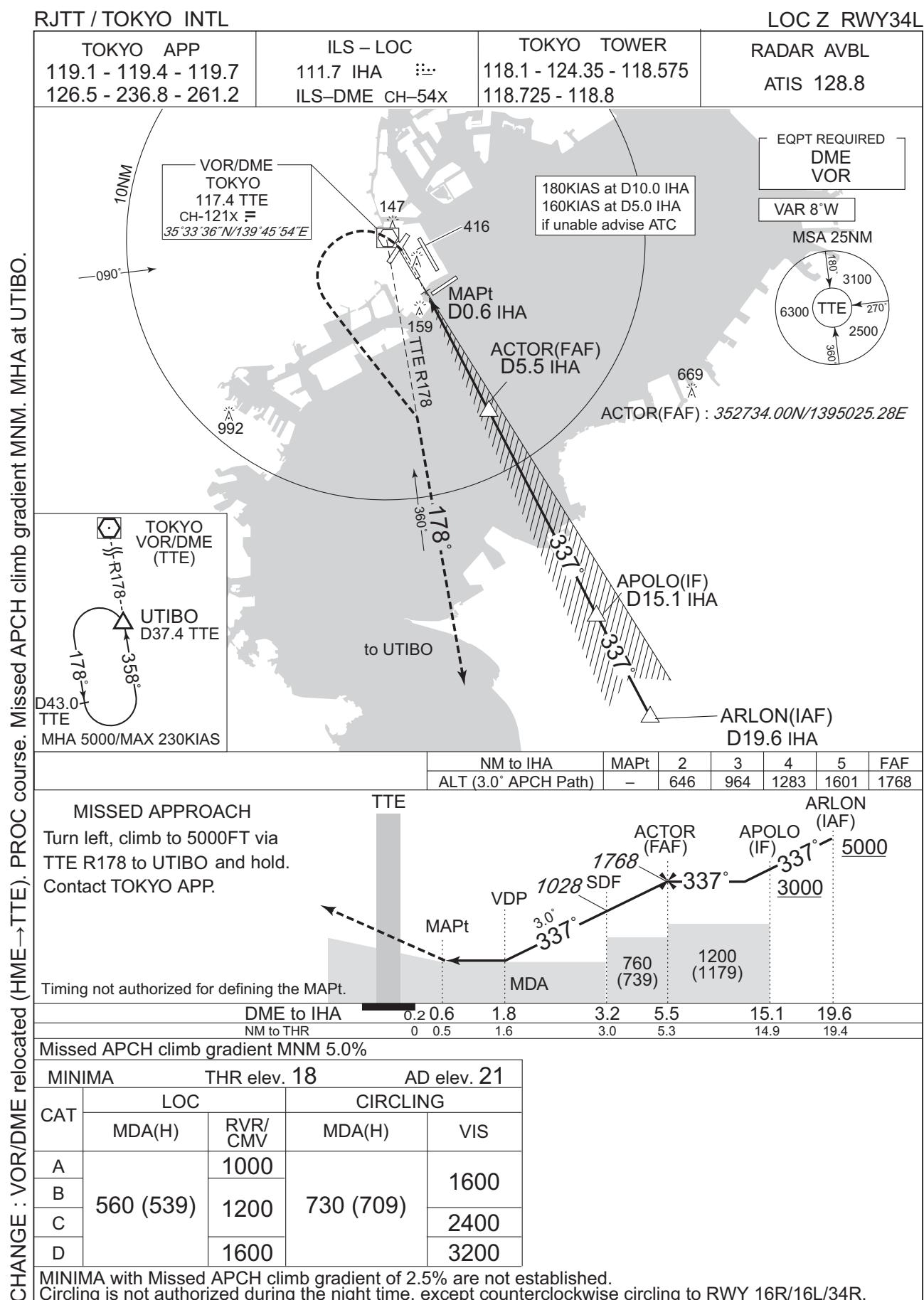
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	LD225	352614.1N / 1395353.4E
AROSA	344201.7N / 1404157.3E	MESSE	351100.8N / 1402214.7E
AVEEY	344155.9N / 1402158.0E	UMUKI	351219.1N / 1394849.2E
DARKS	353414.8N / 1395902.9E	UTIBO	345647.0N / 1395343.9E
KAIHO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

CHANGE : HLDG pattern for UTIBO established.

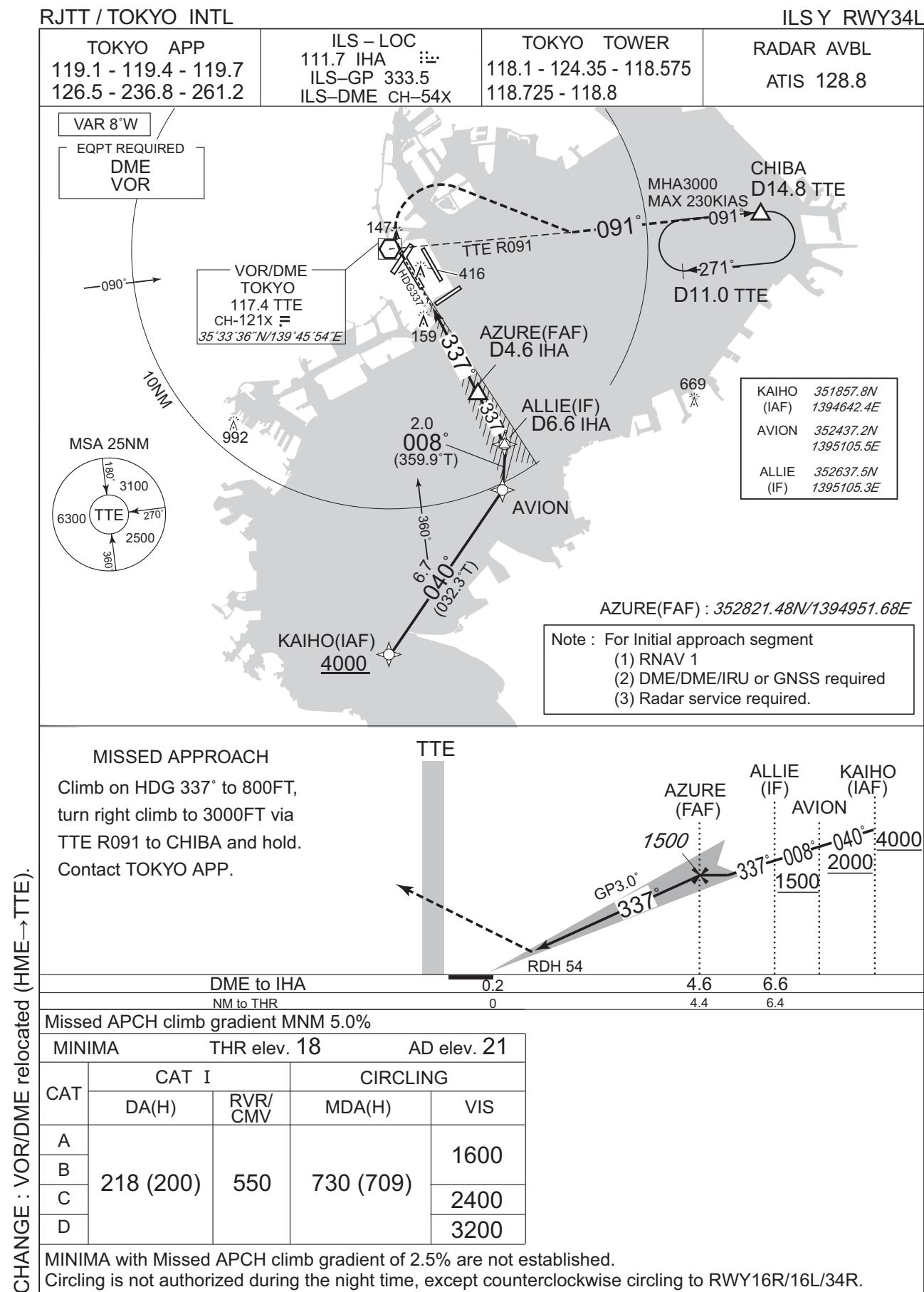
INSTRUMENT APPROACH CHART



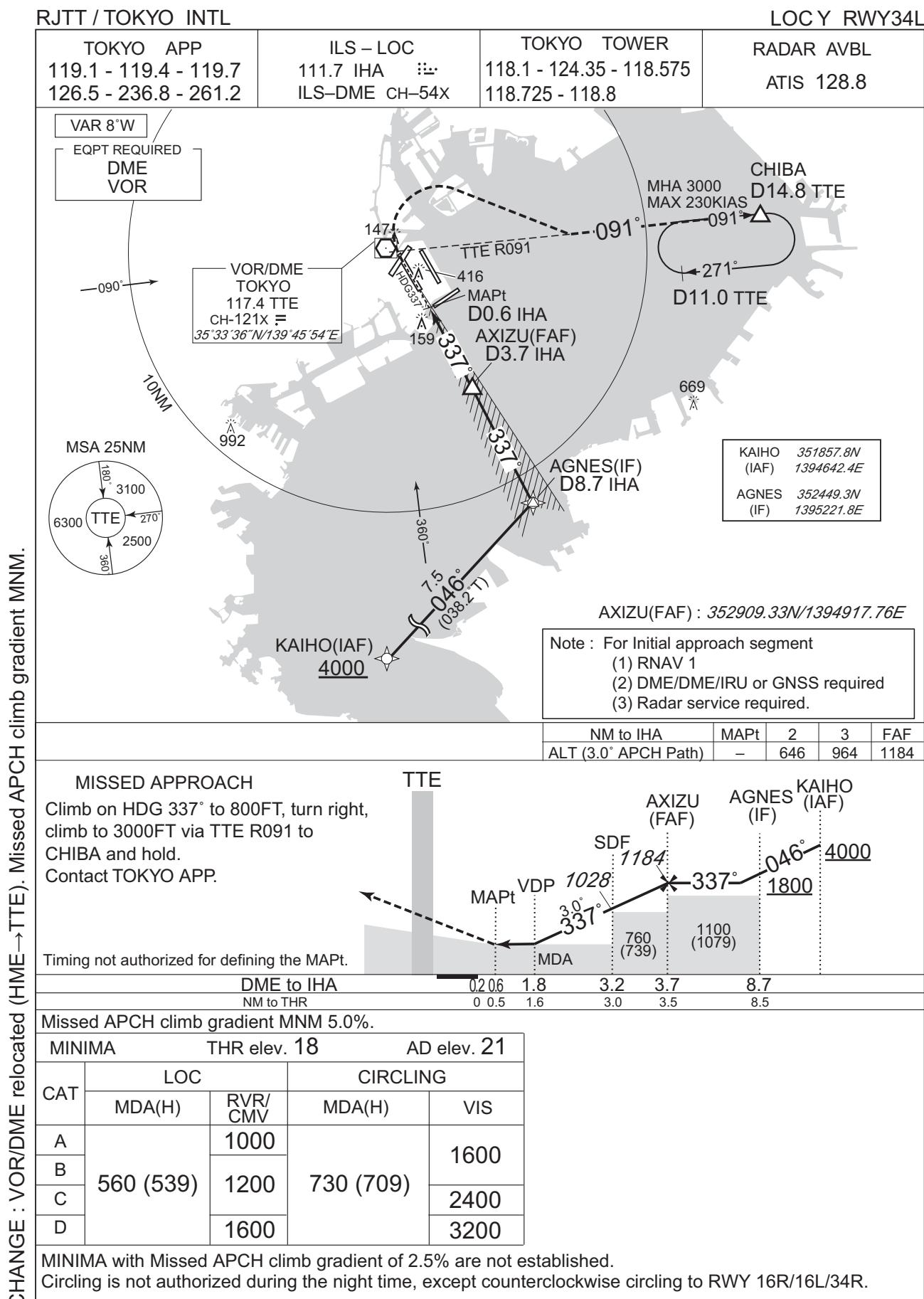
## INSTRUMENT APPROACH CHART



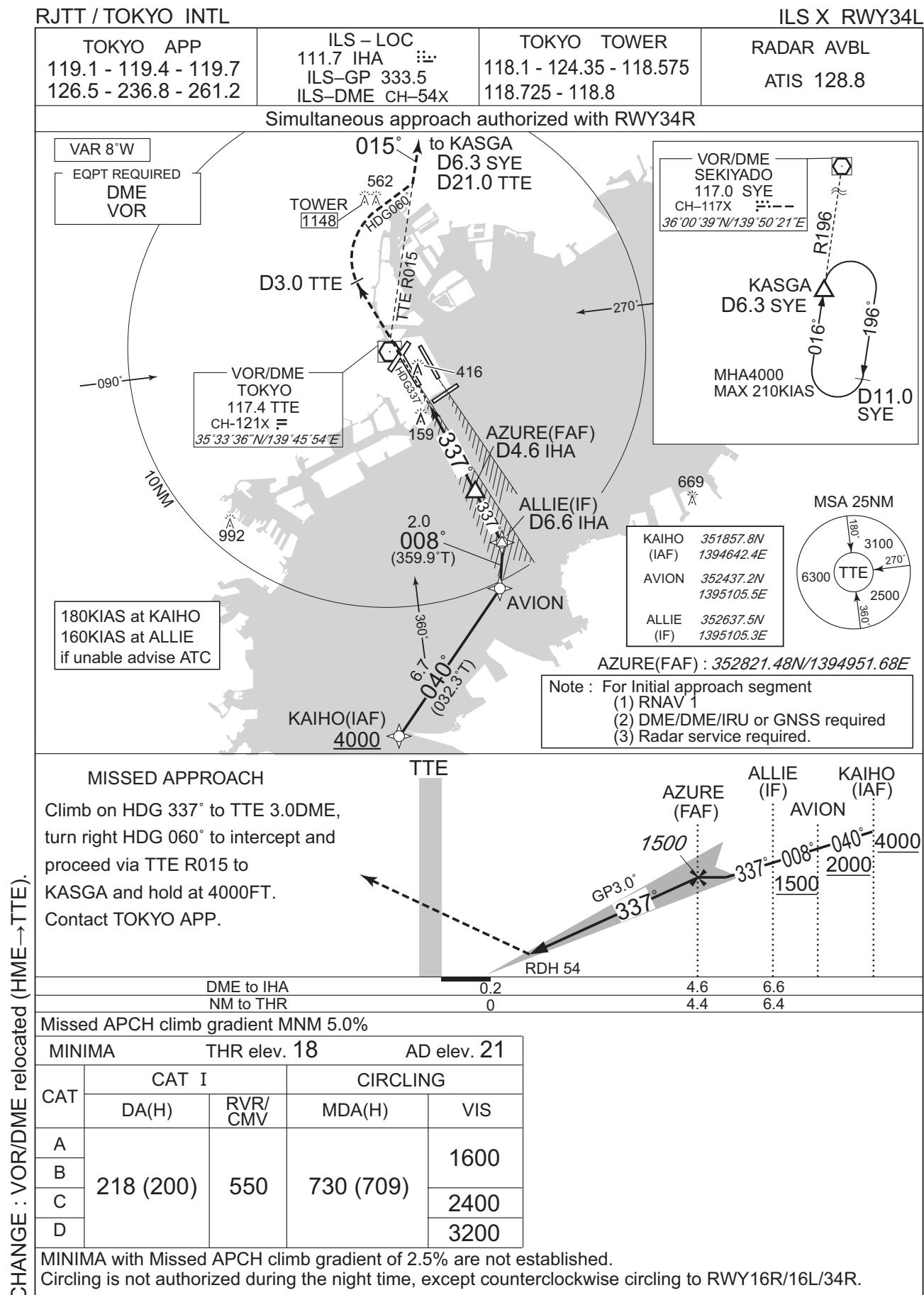
INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART



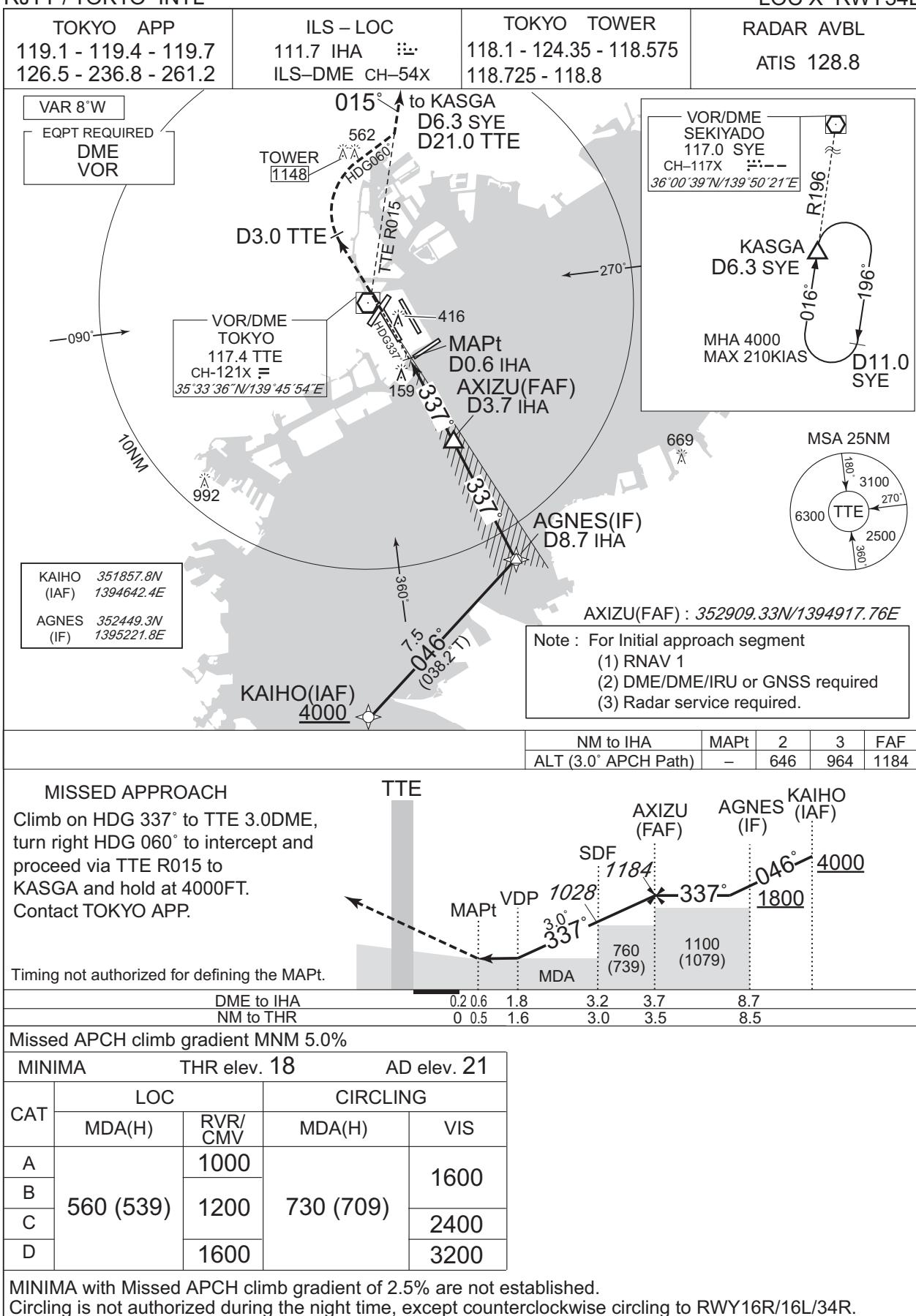
INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

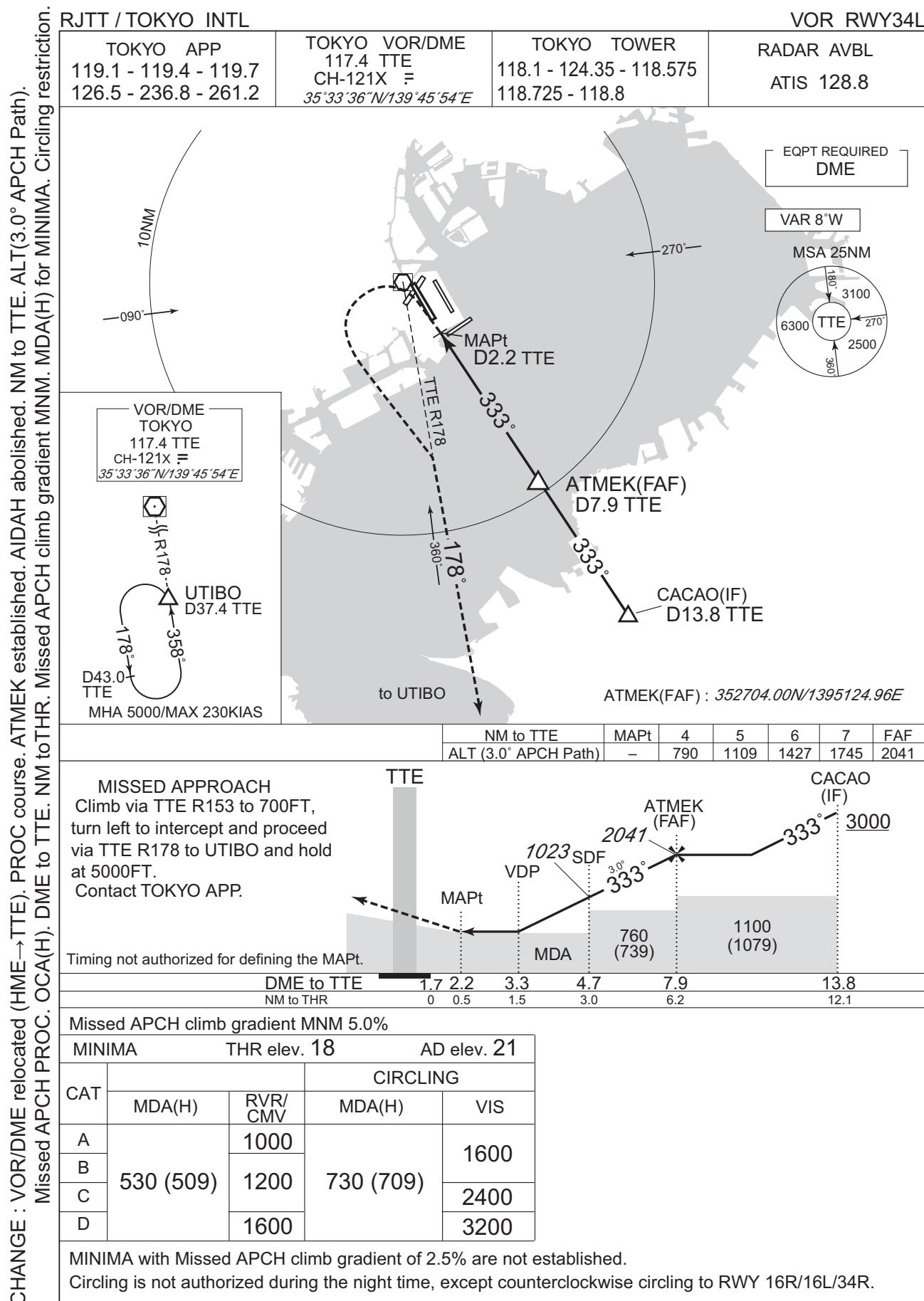
RJTT / TOKYO INTL

LOC X RWY34L



CHANGE : VOR/DME relocated (HME→TTE). Missed APCH climb gradient MNM.

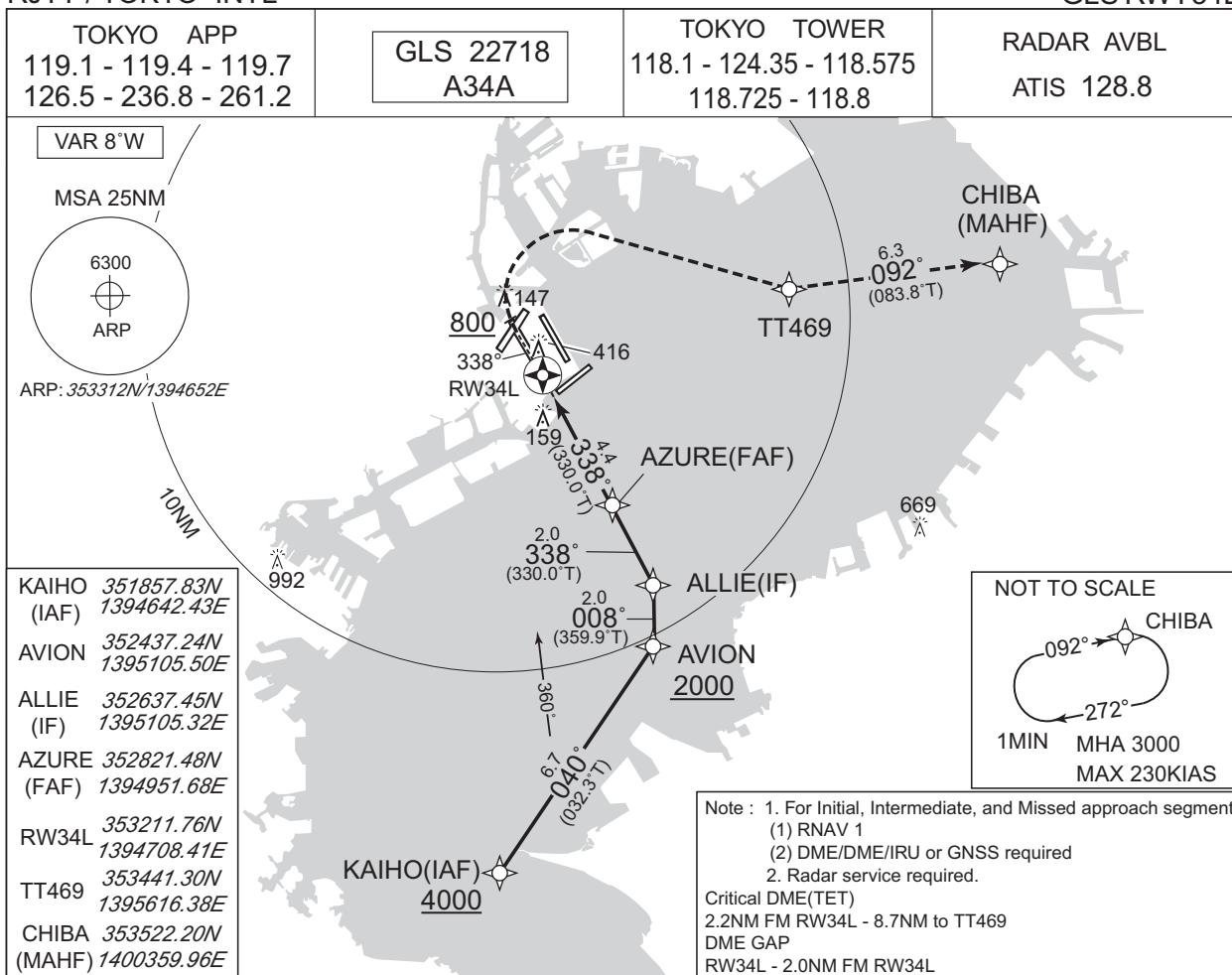
INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

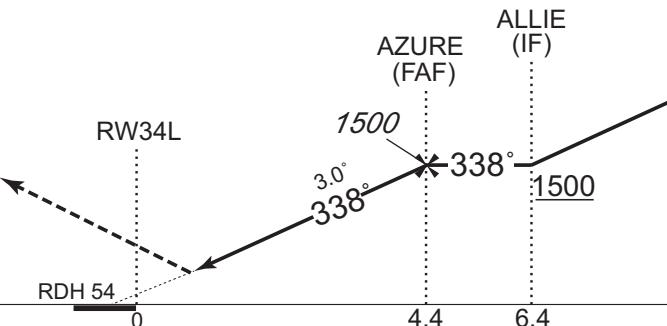
RJTT / TOKYO INTL

GLS RWY34L



## MISSED APPROACH

Climb on course 338°, at or above 800FT turn right direct to TT469, to CHIBA and hold at 3000FT. Contact TOKYO APP.



Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 18 AD elev. 21

CHANGE : Critical DME, DME GAP.

CAT	GLS		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A				1600
B	218 (200)	550	730 (709)	2400
C				3200
D				

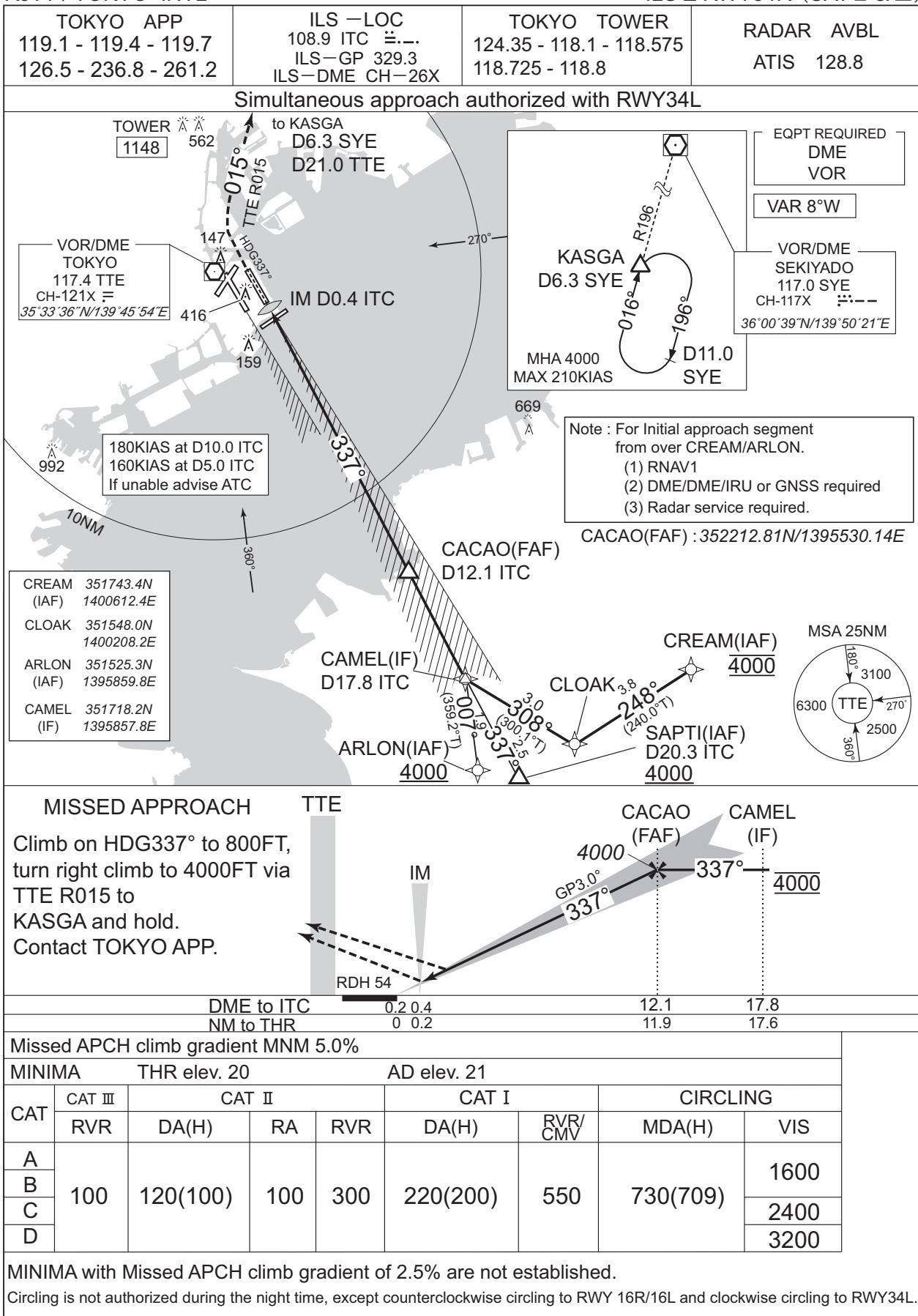
MINIMA with Missed APCH climb gradient of 2.5% are not established.

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

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

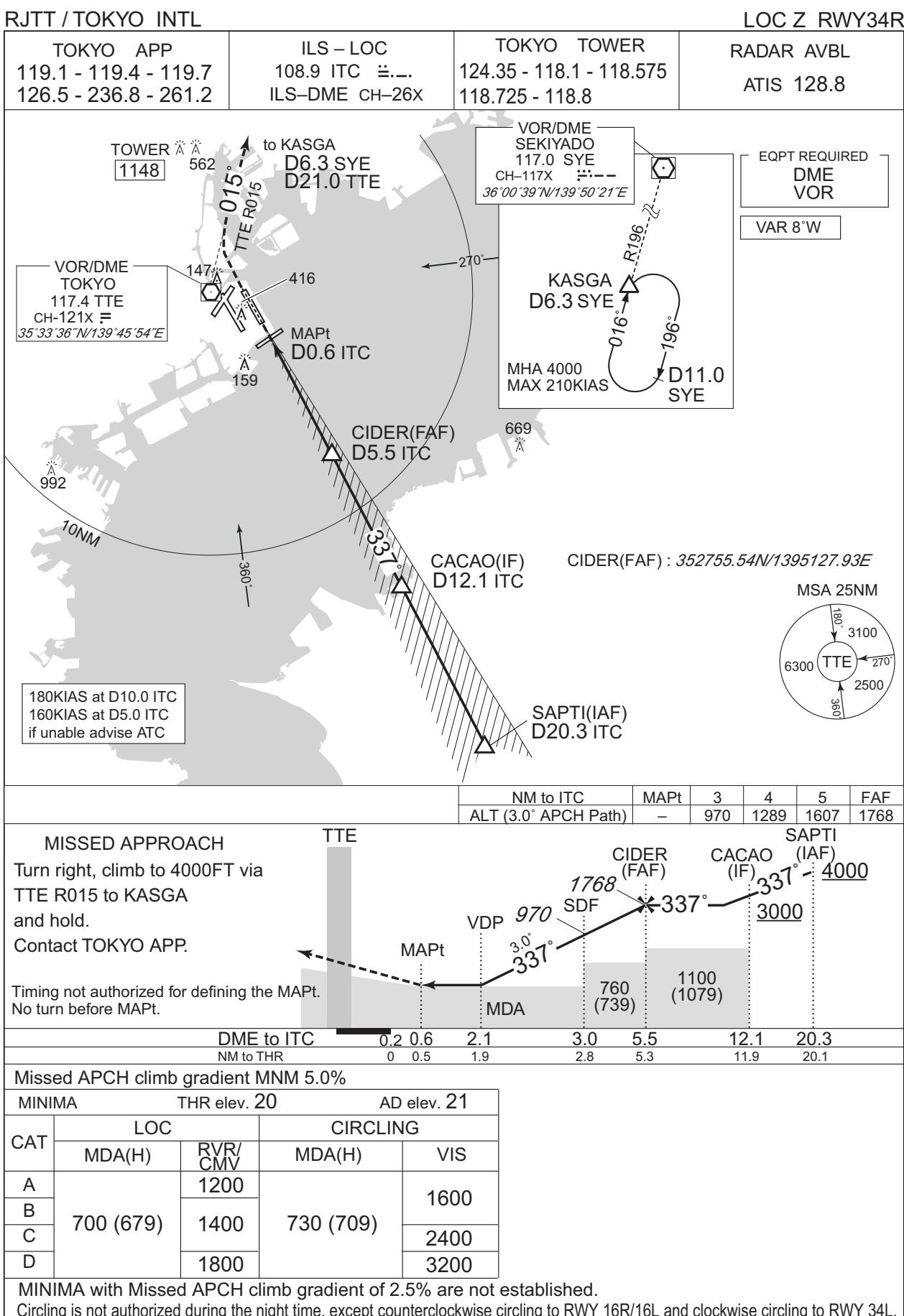
ILS Z RWY34R (CAT II & III)



CHANGE : VOR/DME relocated (HME→TTE), SAPTI established. SINGO abolished.

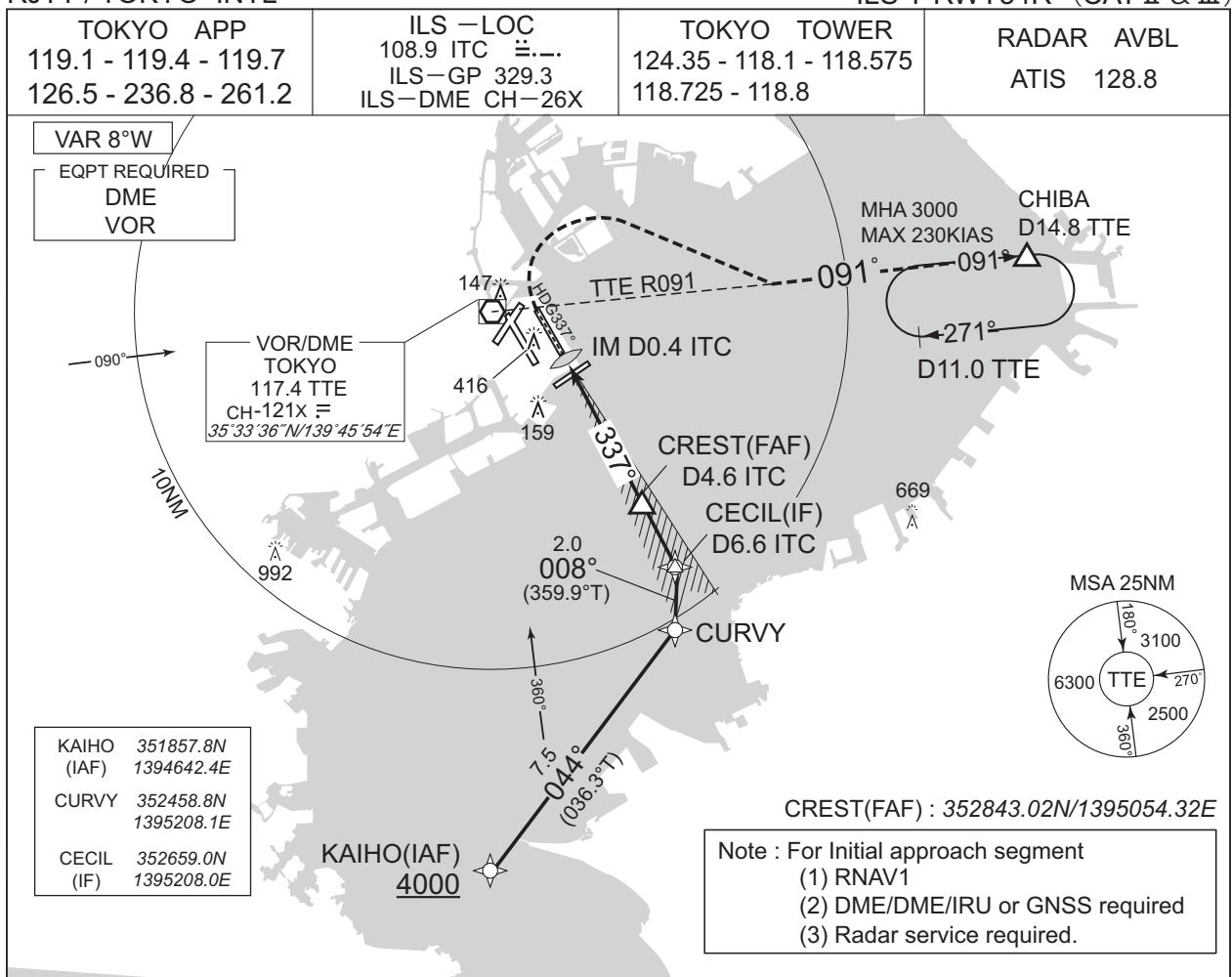
## INSTRUMENT APPROACH CHART

CHANGE : VOR/DME relocated (HME→TTE). SAPTI established. Missed APCH climb gradient MNM.



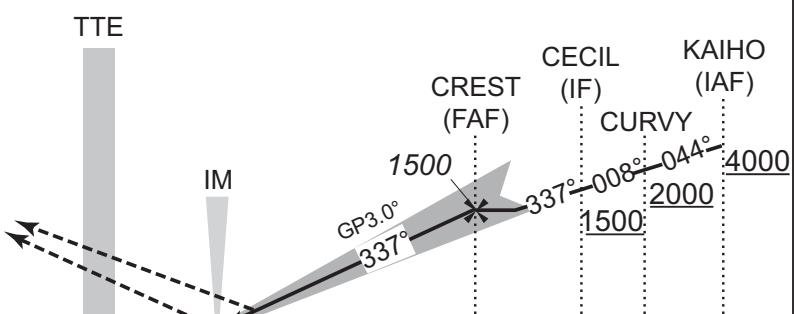
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL



MISSED APPROACH

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



DME to ITC  
NM to THR

0.2 0.4  
0 0.2

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 20 AD elev. 21

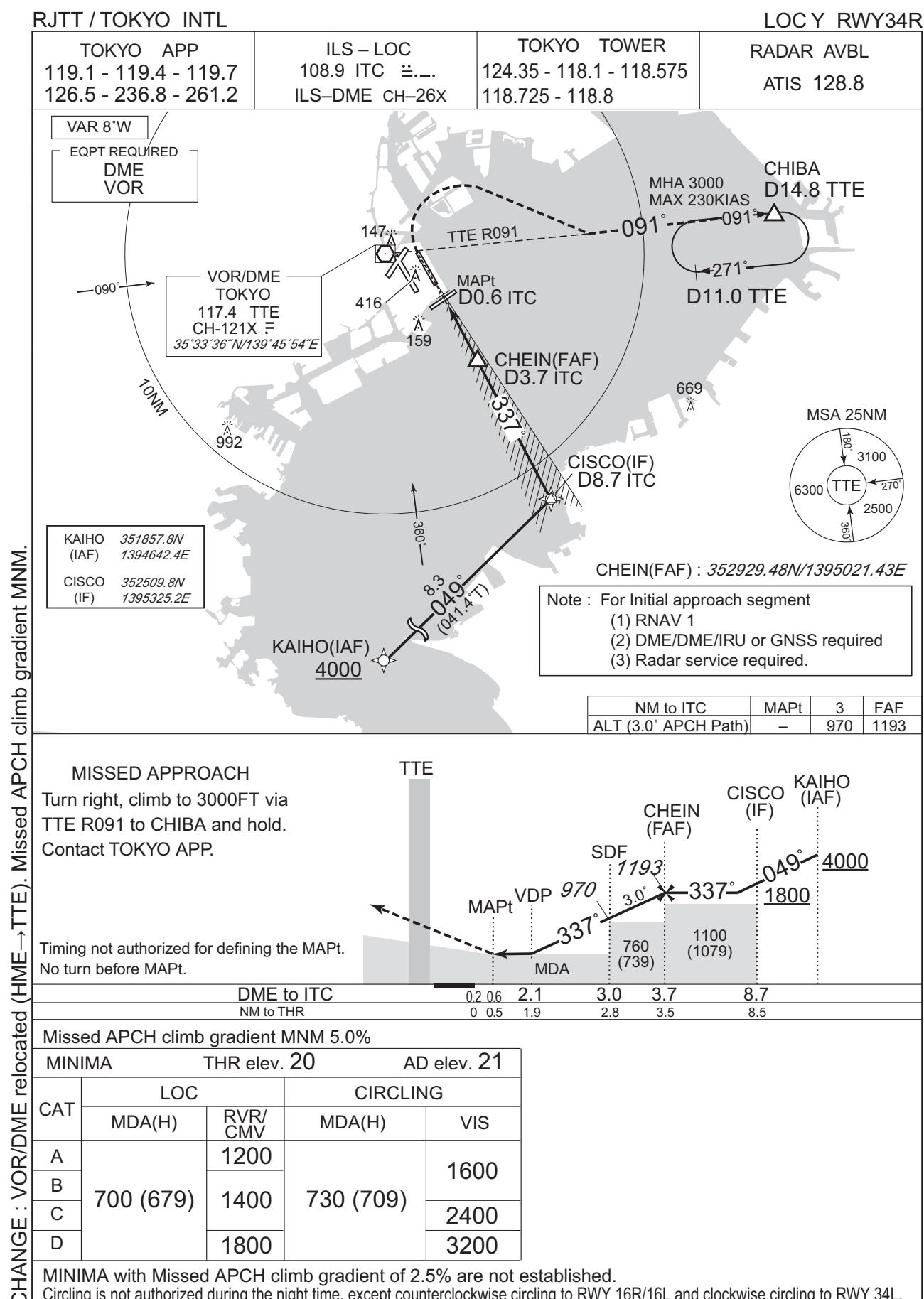
CHANGE : VORDME relocated (HME → TTE).

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

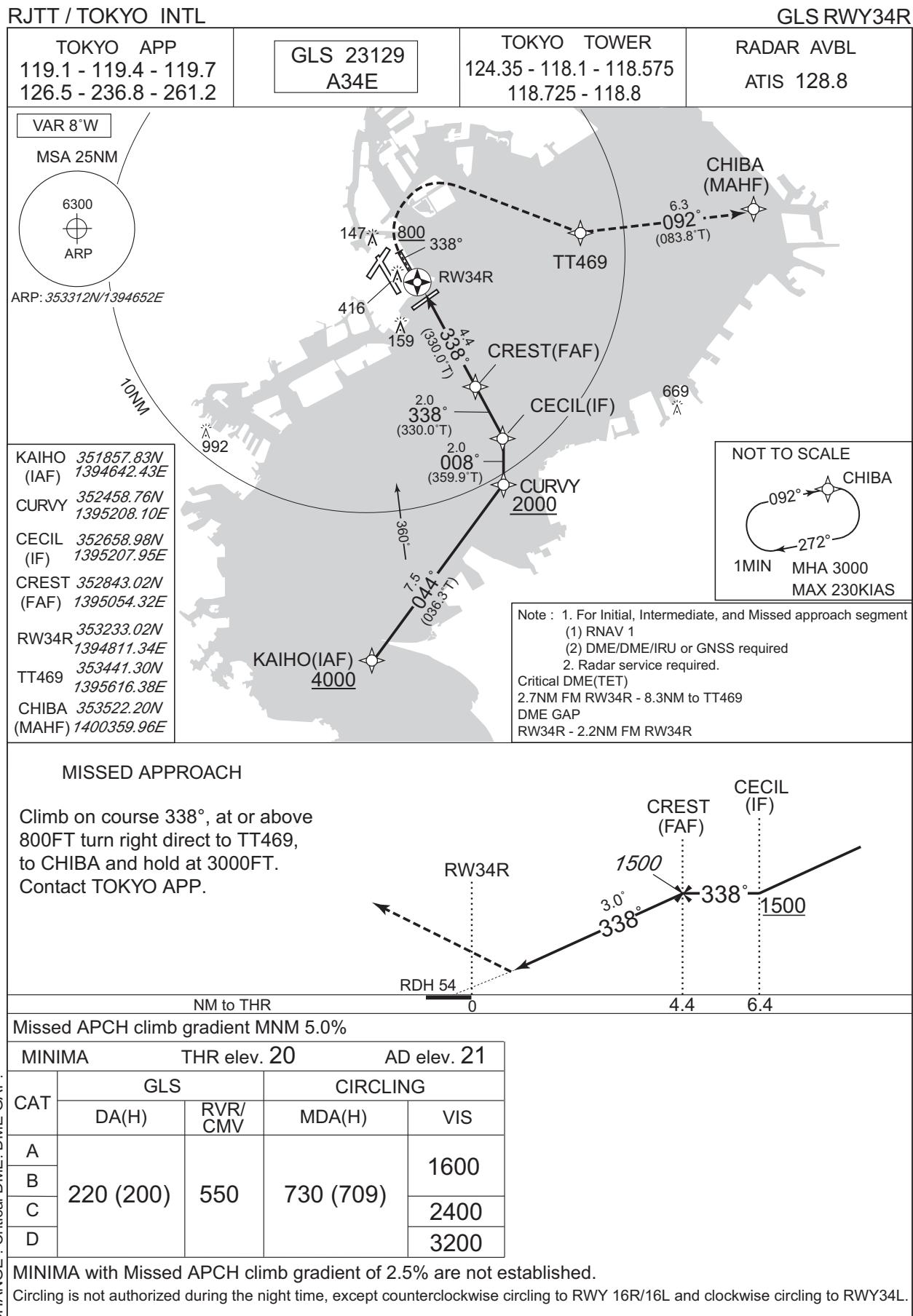
MINIMA with Missed APCH climb gradient of 2.5% are not established.

Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L and clockwise circling to RWY34L.

## INSTRUMENT APPROACH CHART



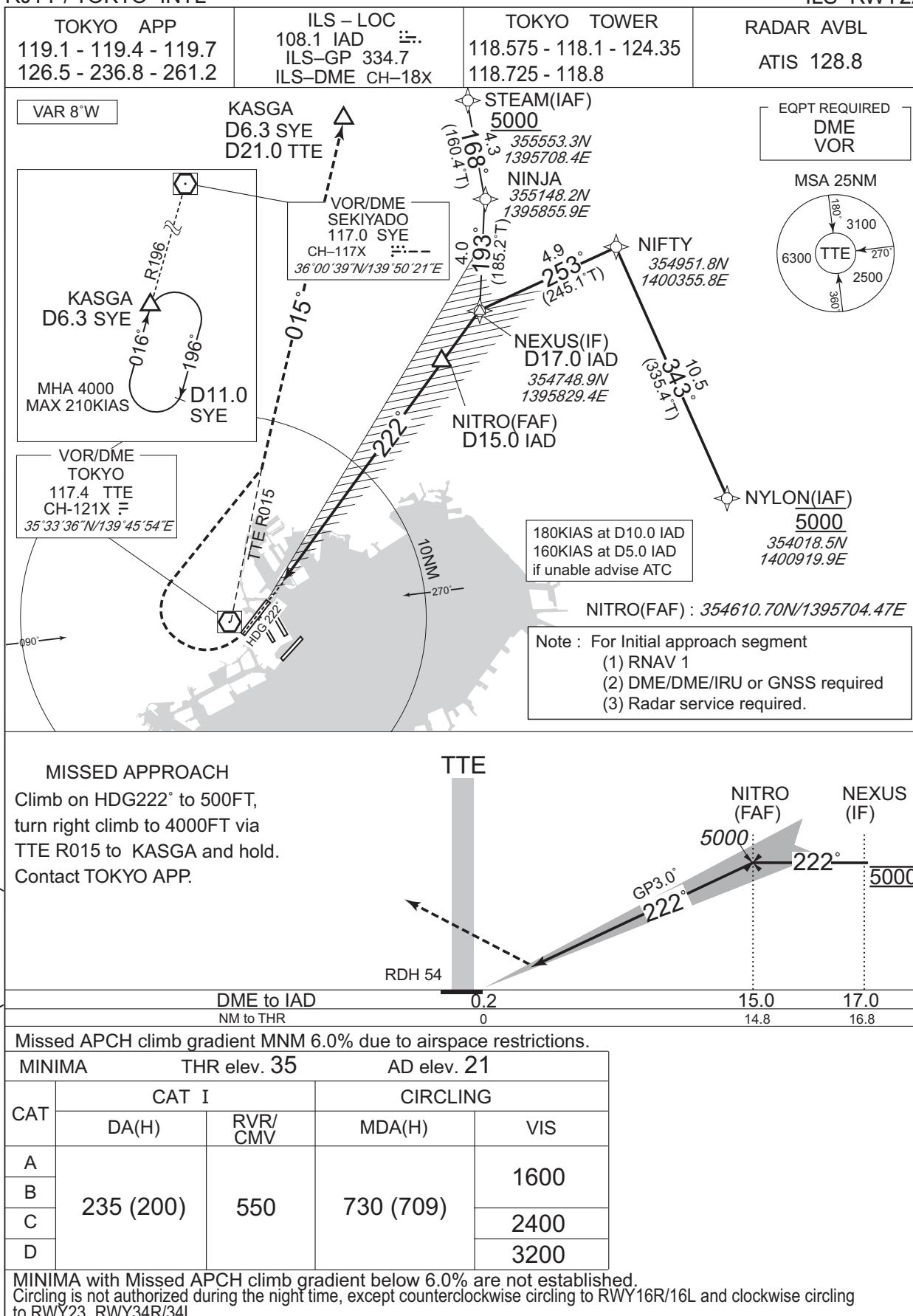
INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS RWY22

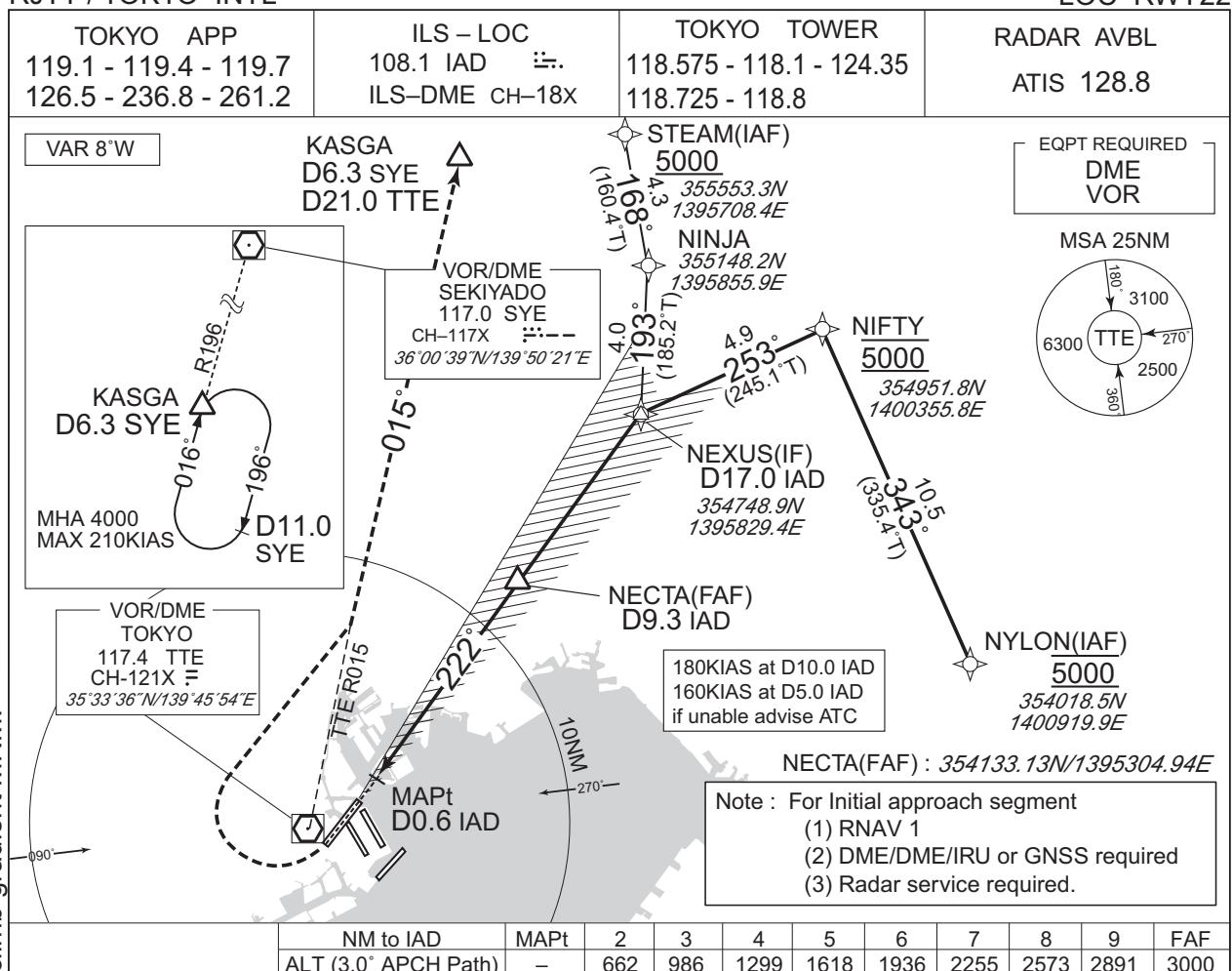


CHANGE : VOR/DME relocated (HME→TTE).

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

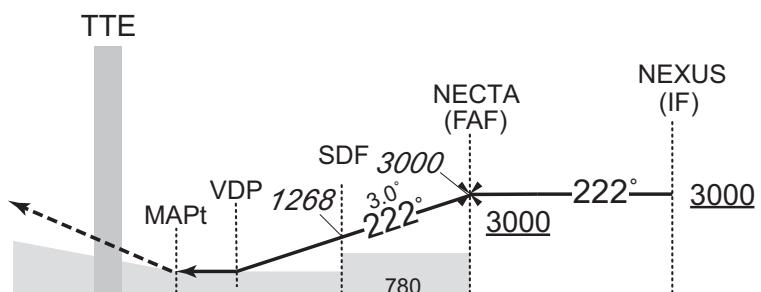
LOC RWY22



MISSED APPROACH

Turn right, climb to 4000FT via TTE  
R015 to KASGA and hold.  
Contact TOKYO APP.

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



DME to IAD	0.2	0.6	1.9	3.9	9.3	17.0
NM to THR	0	0.5	1.7	3.7	9.1	16.8

Missed APCH climb gradient MNM 5.0%

MINIMA      THR elev. 35      AD elev. 21

CHANGE : VOR/DME relocated (HME→TTE). Missed APCH climb gradient MNM.

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

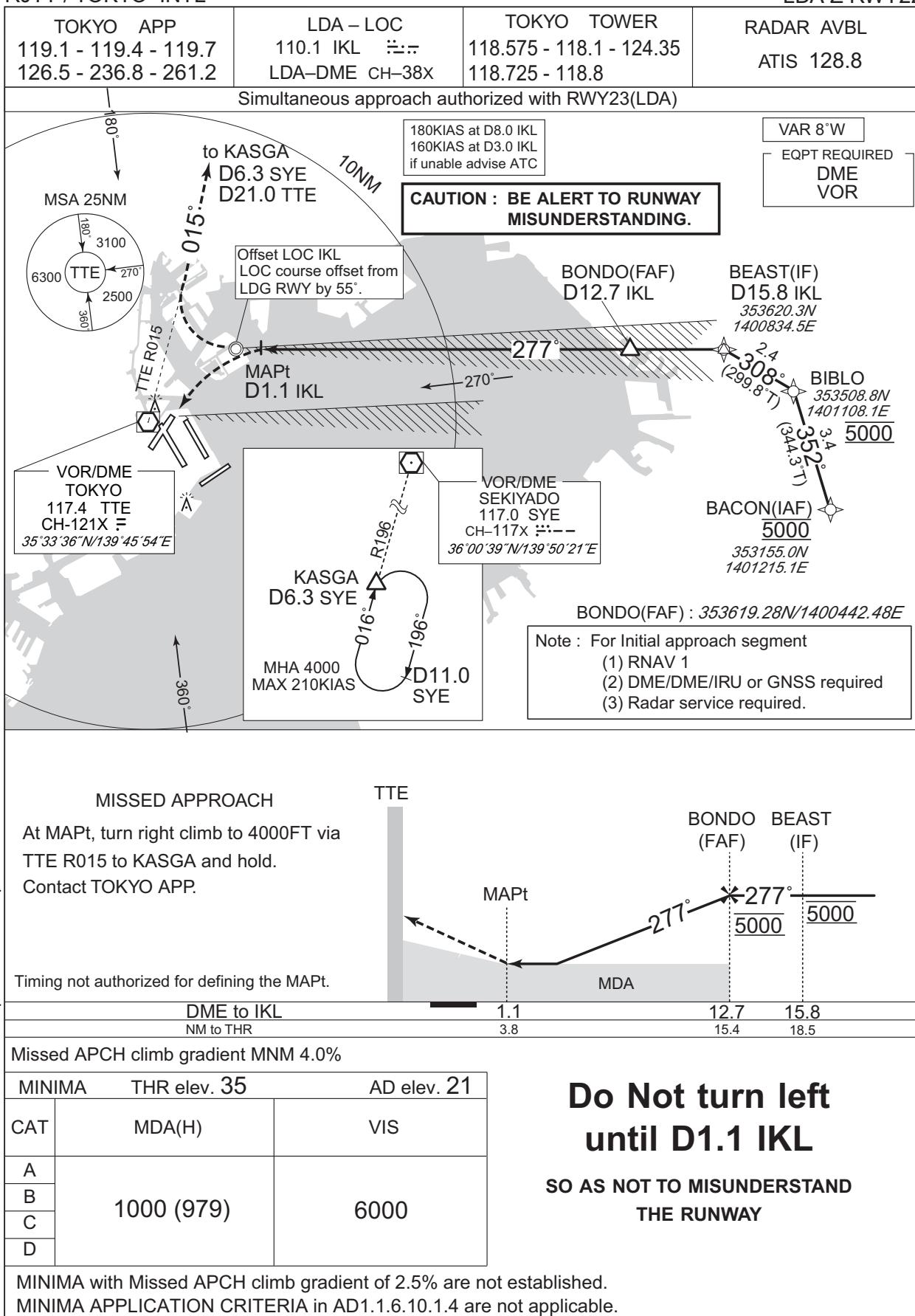
MINIMA with Missed APCH climb gradient of 2.5% are not established.

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

## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Z RWY22



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

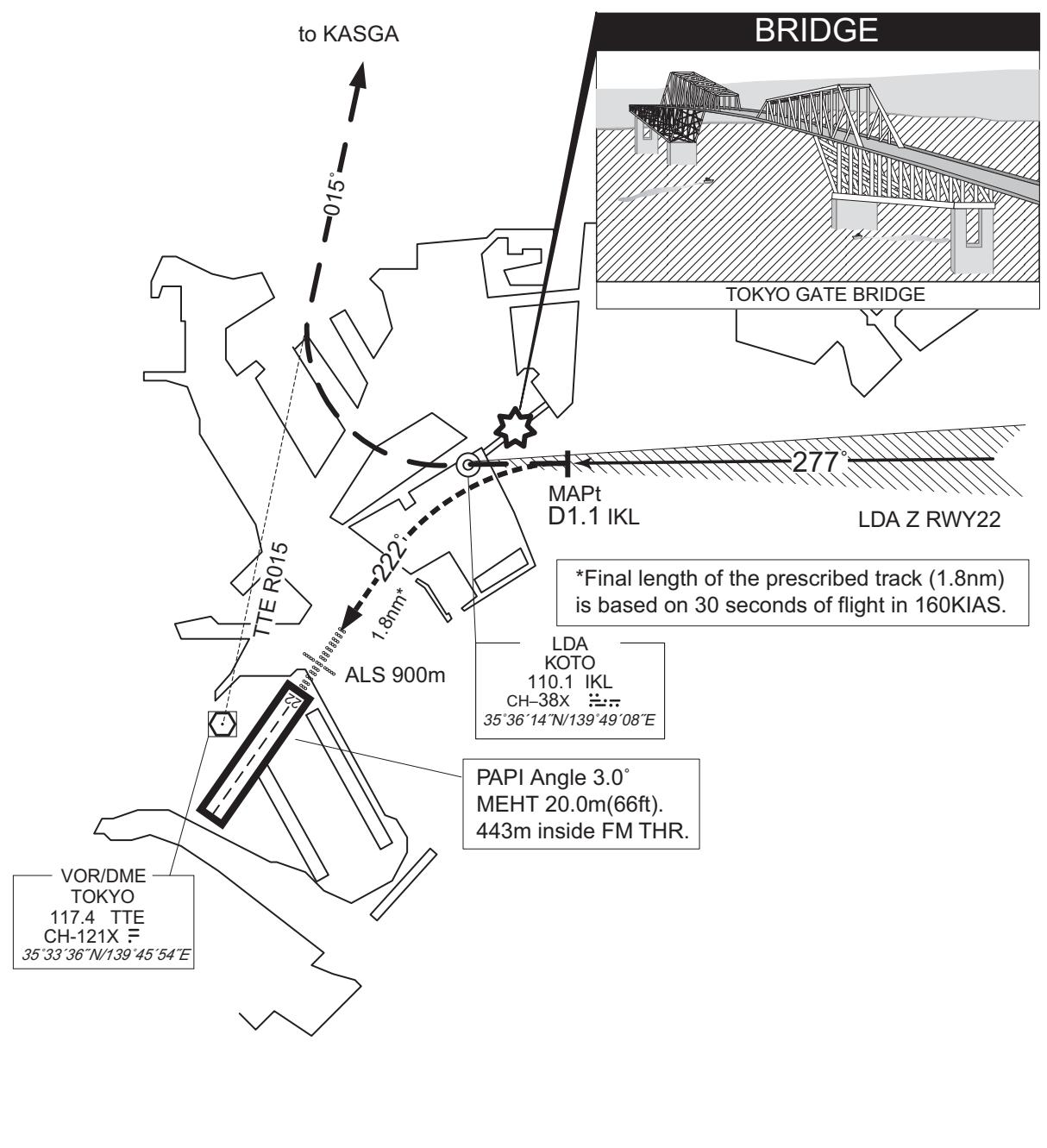
LDA Z RWY22

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.

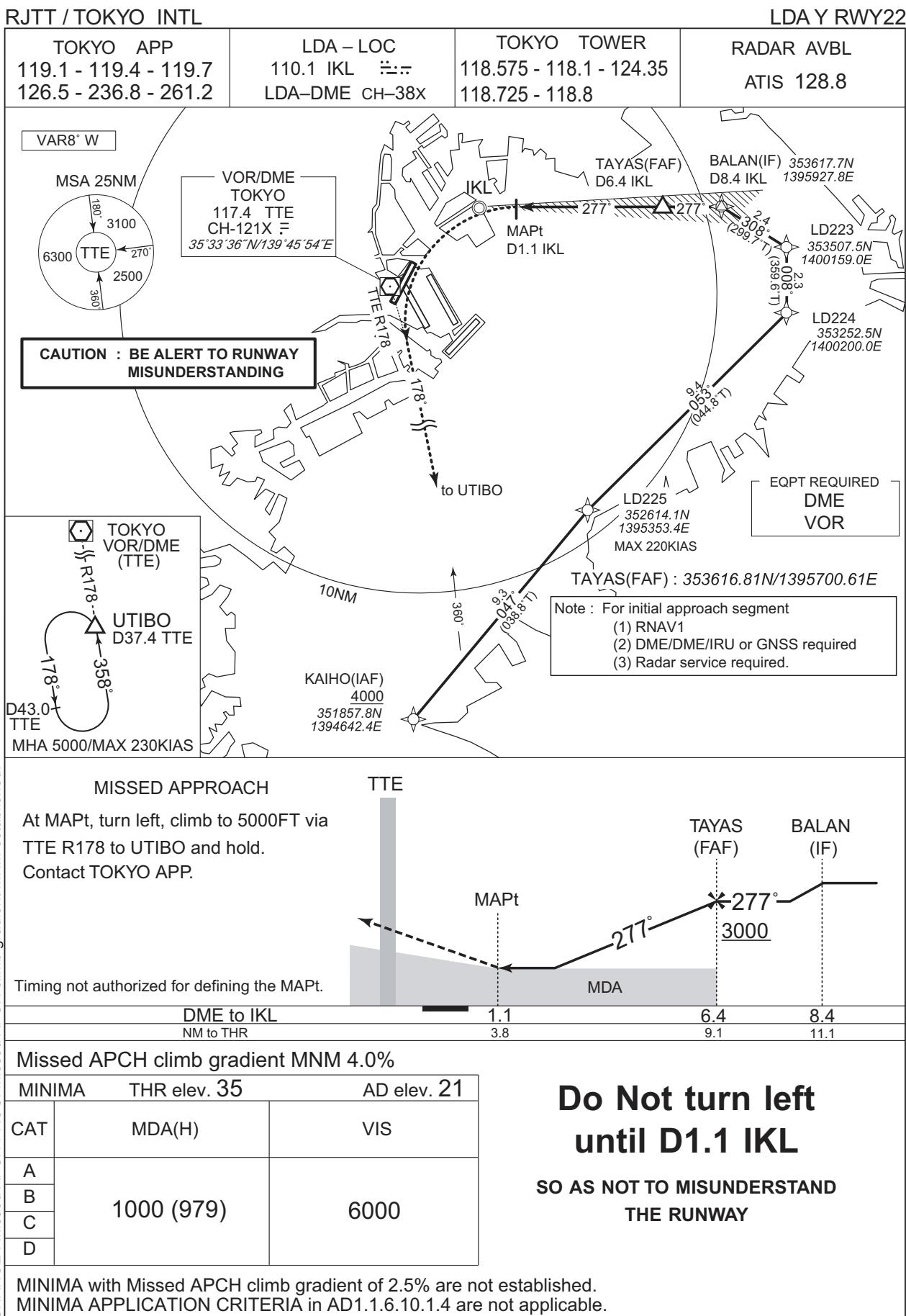
CHANGE : VOR/DME relocated (HME→TTE). WIND POWER PLANT abolished.



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

Until receiving ATC instructions, aircraft turn right for joining TTE R015 and missed approach procedure.

## INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

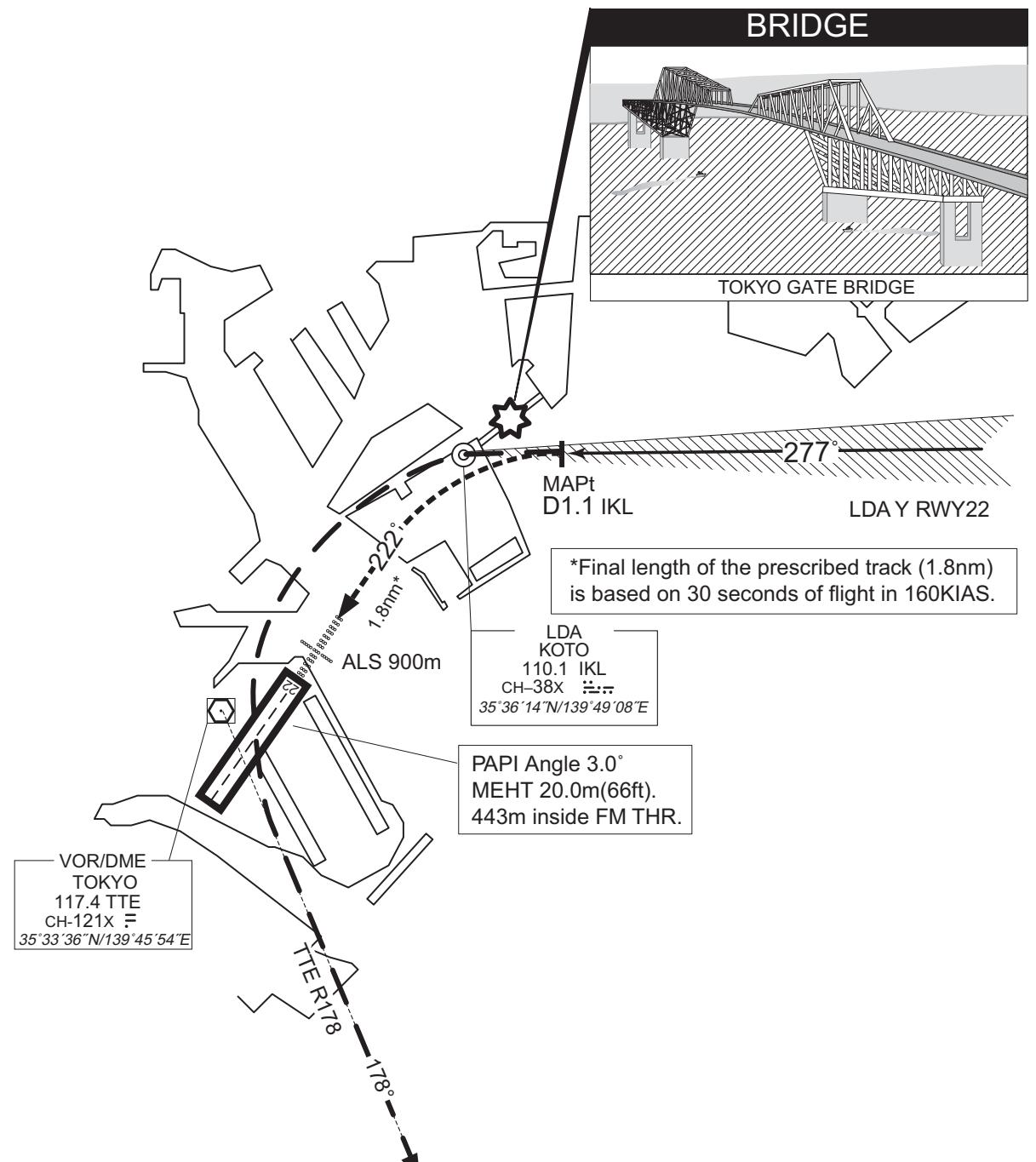
LDA Y RWY22

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.

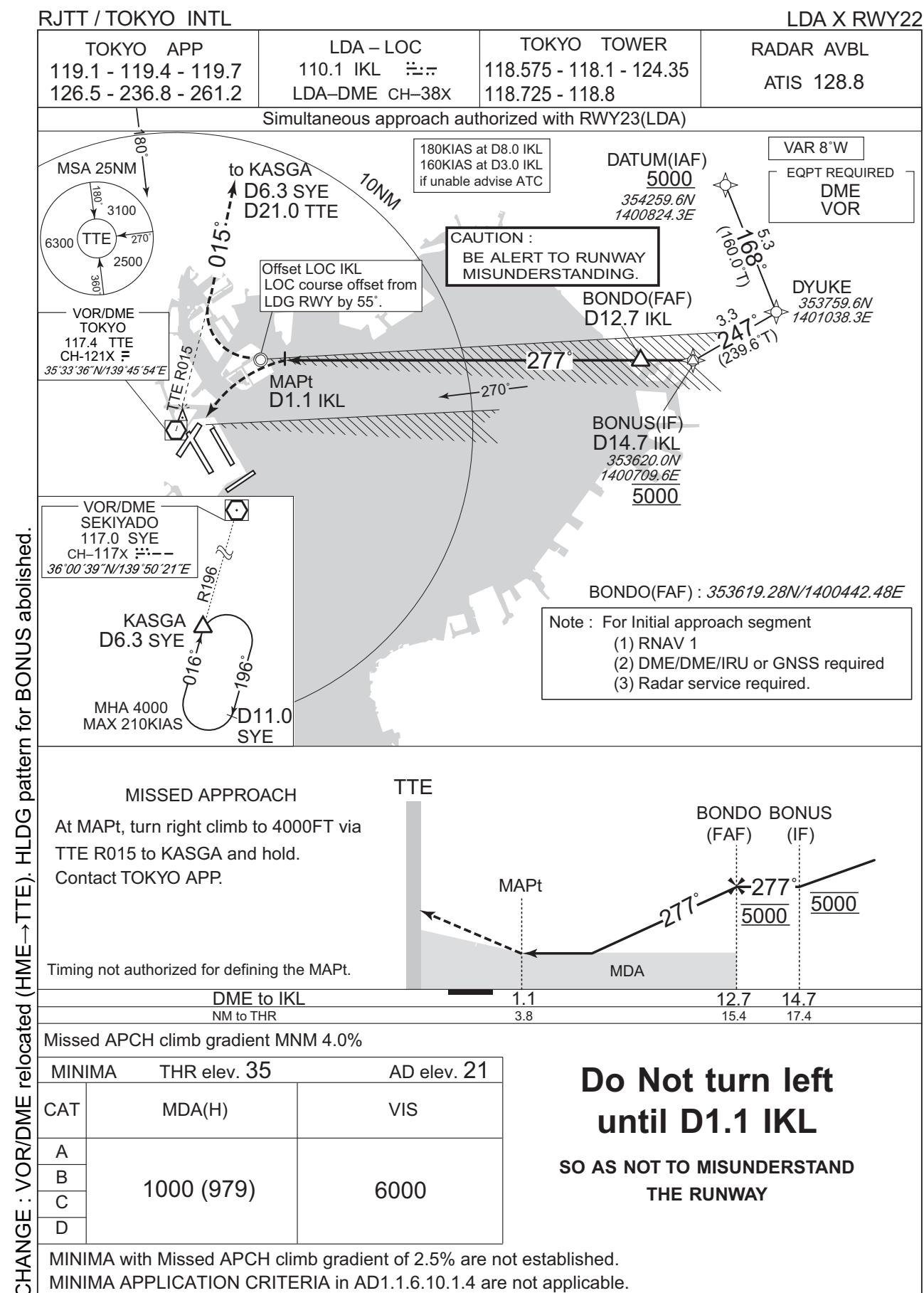
CHANGE : VOR/DME relocated (HME→TTE). WIND POWER PLANT abolished. PROC course.



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

Until receiving ATC instructions, aircraft turn left for joining TTE R178 and missed approach procedure.

## INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

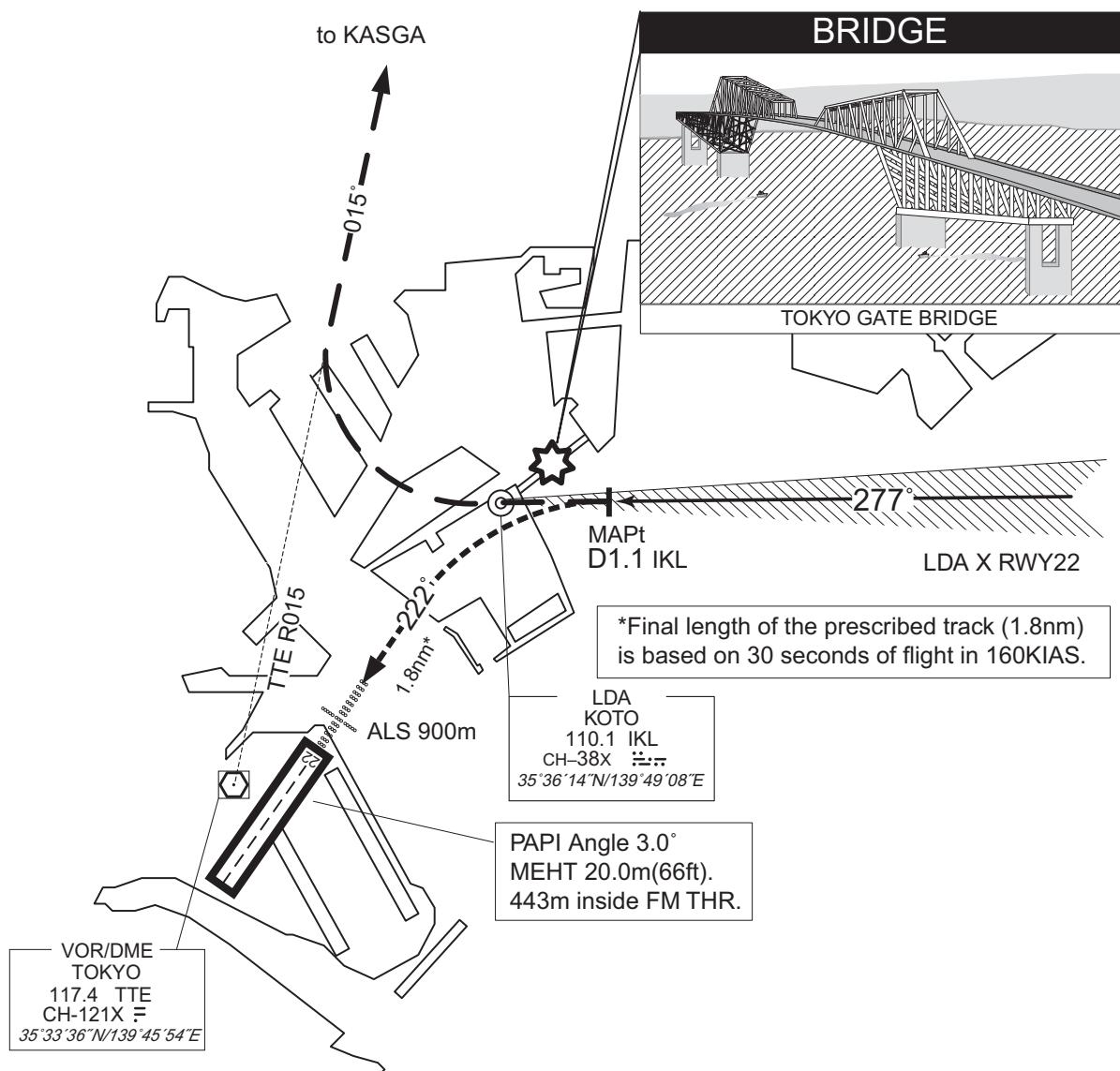
LDA X RWY22

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.

CHANGE : VOR/DME relocated (HME→TTE), WIND POWER PLANT abolished.



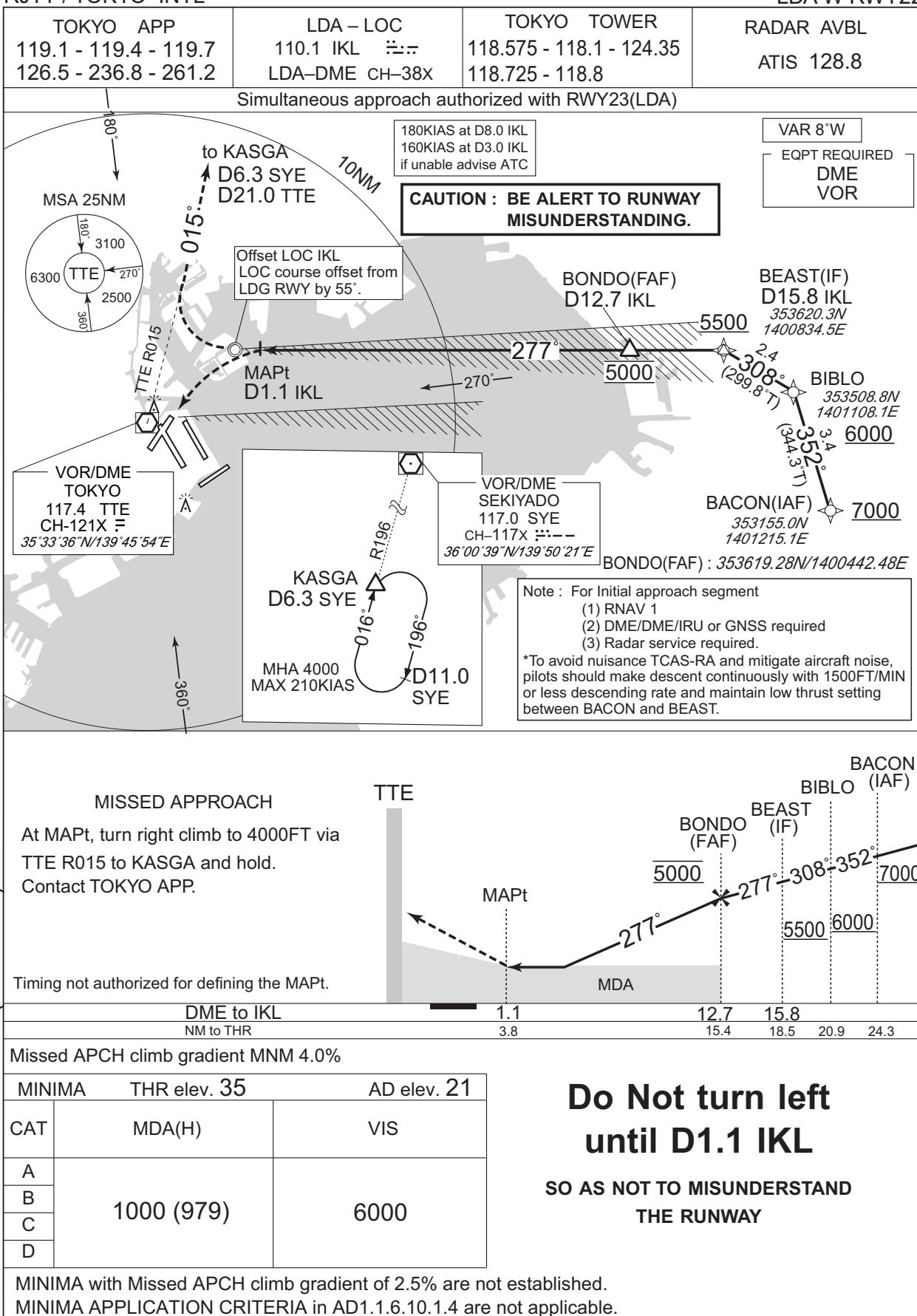
In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn right for joining TTE R015 and missed approach procedure.

## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY22



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

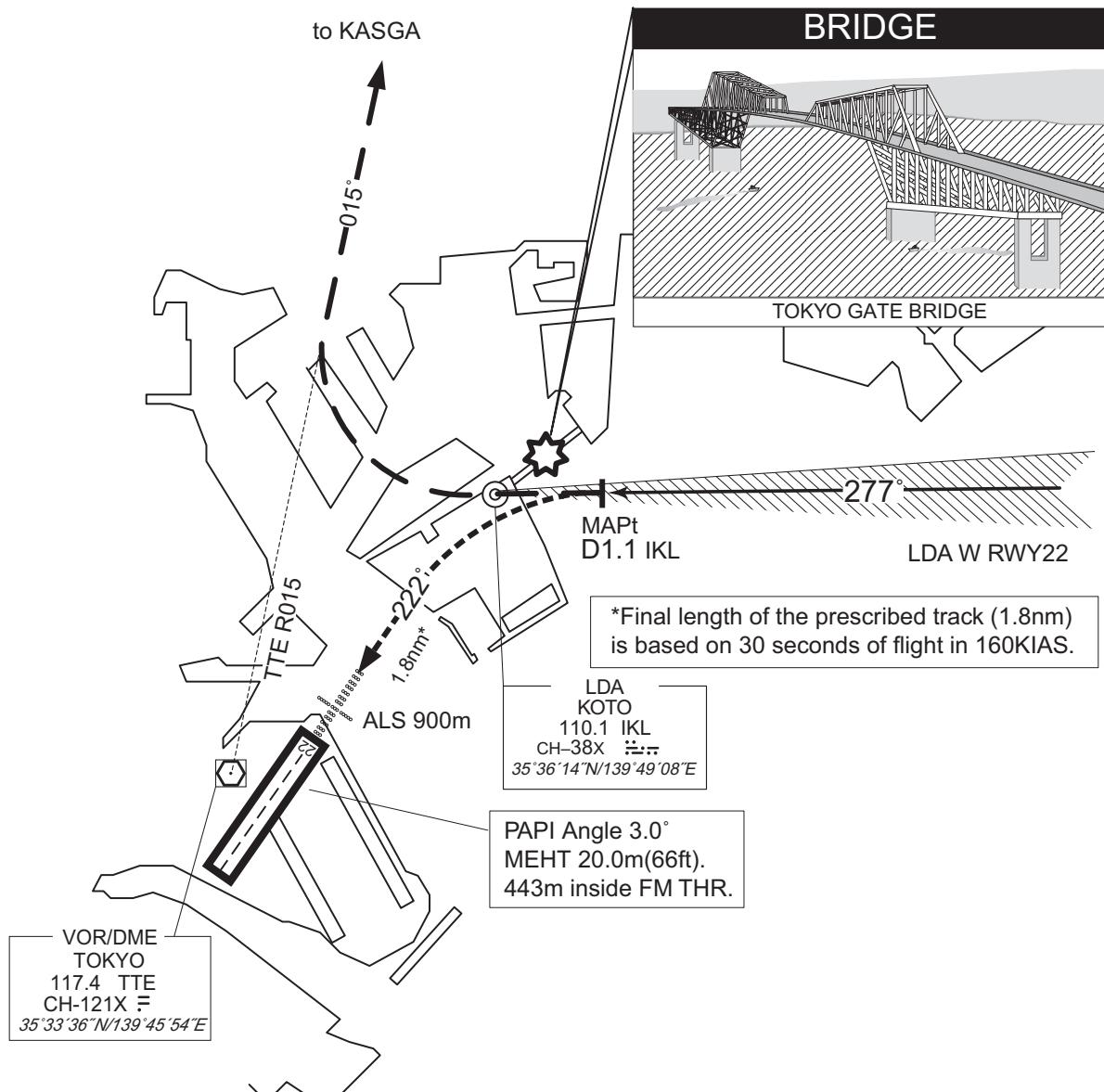
LDA W RWY22

Visual Prescribed Track for LDA W RWY22

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

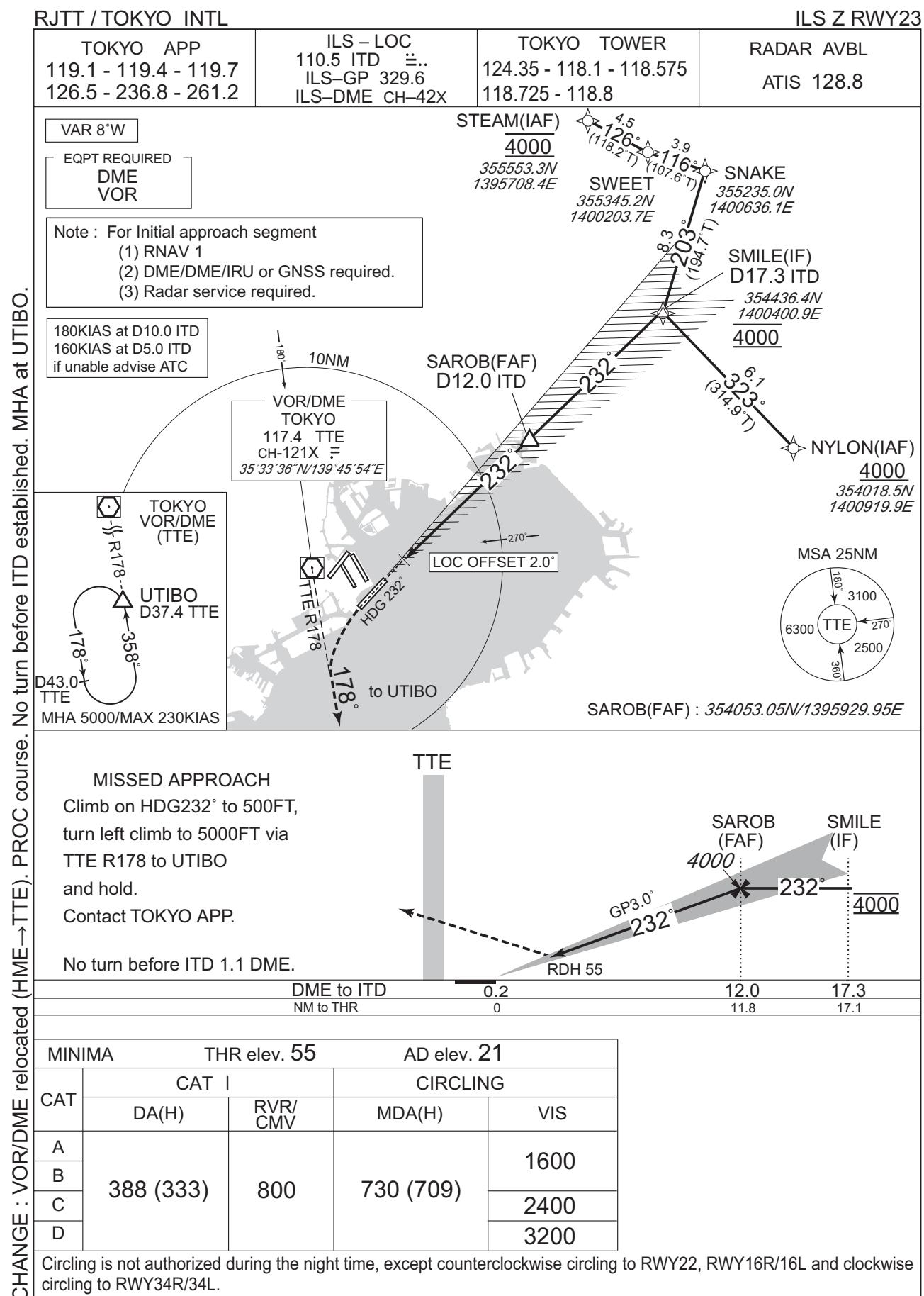
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.

CHANGE : VOR/DME relocated (HME→TTE). WIND POWER PLANT abolished.

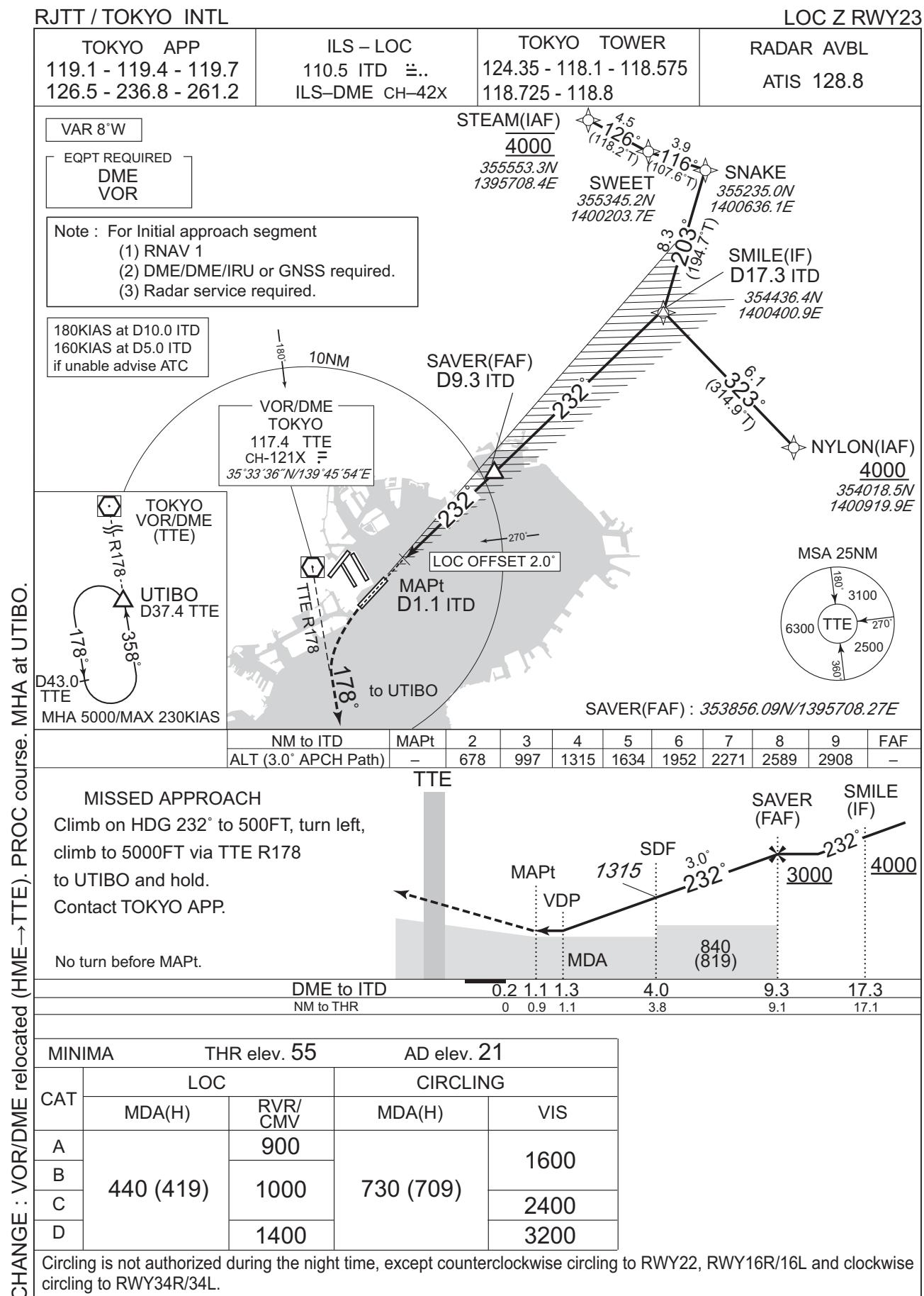


In case of GO AROUND, pilot should report ATC as soon as practicable.  
Until receiving ATC instructions, aircraft turn right for joining TTE R015 and missed approach procedure.

## INSTRUMENT APPROACH CHART



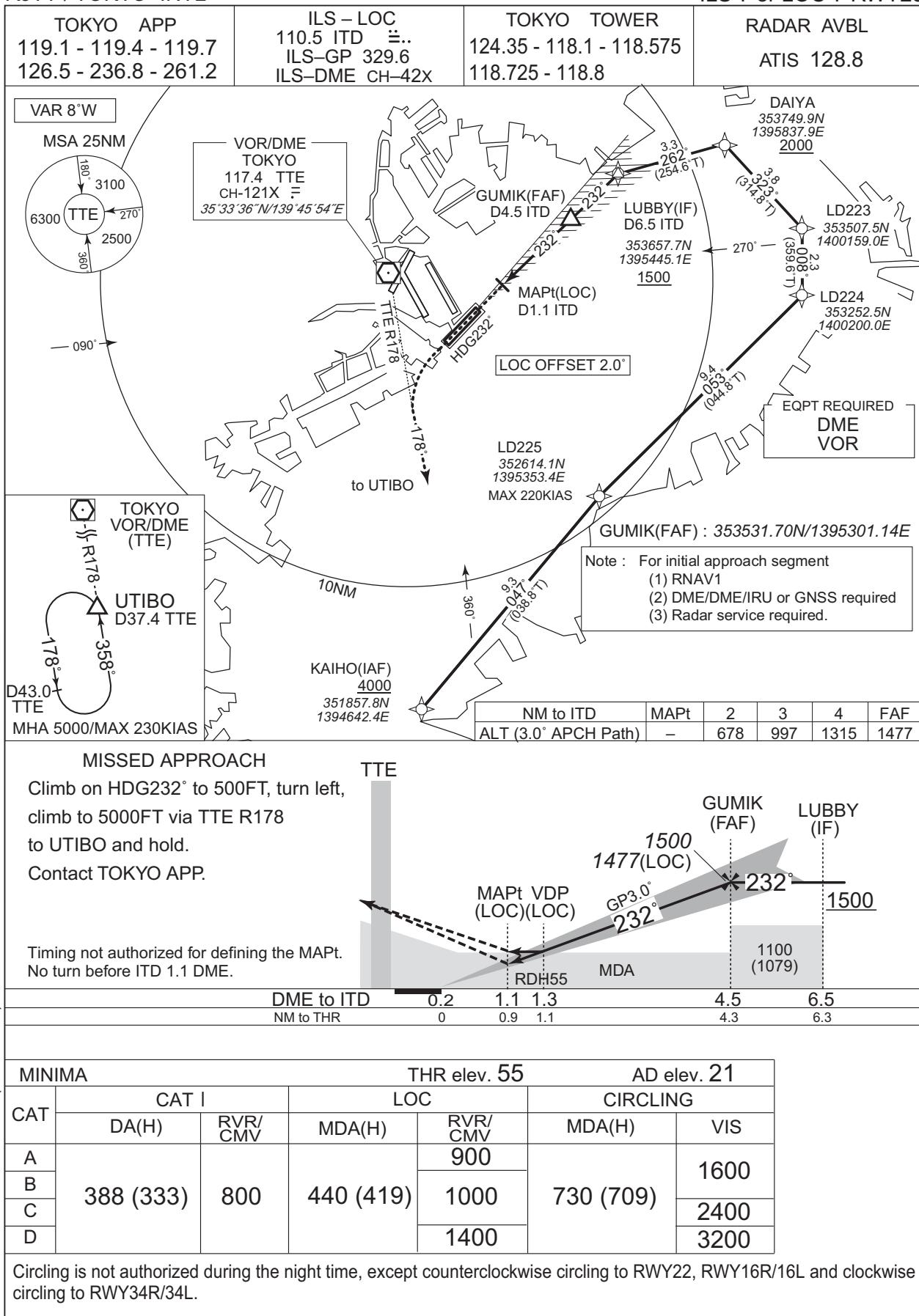
INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

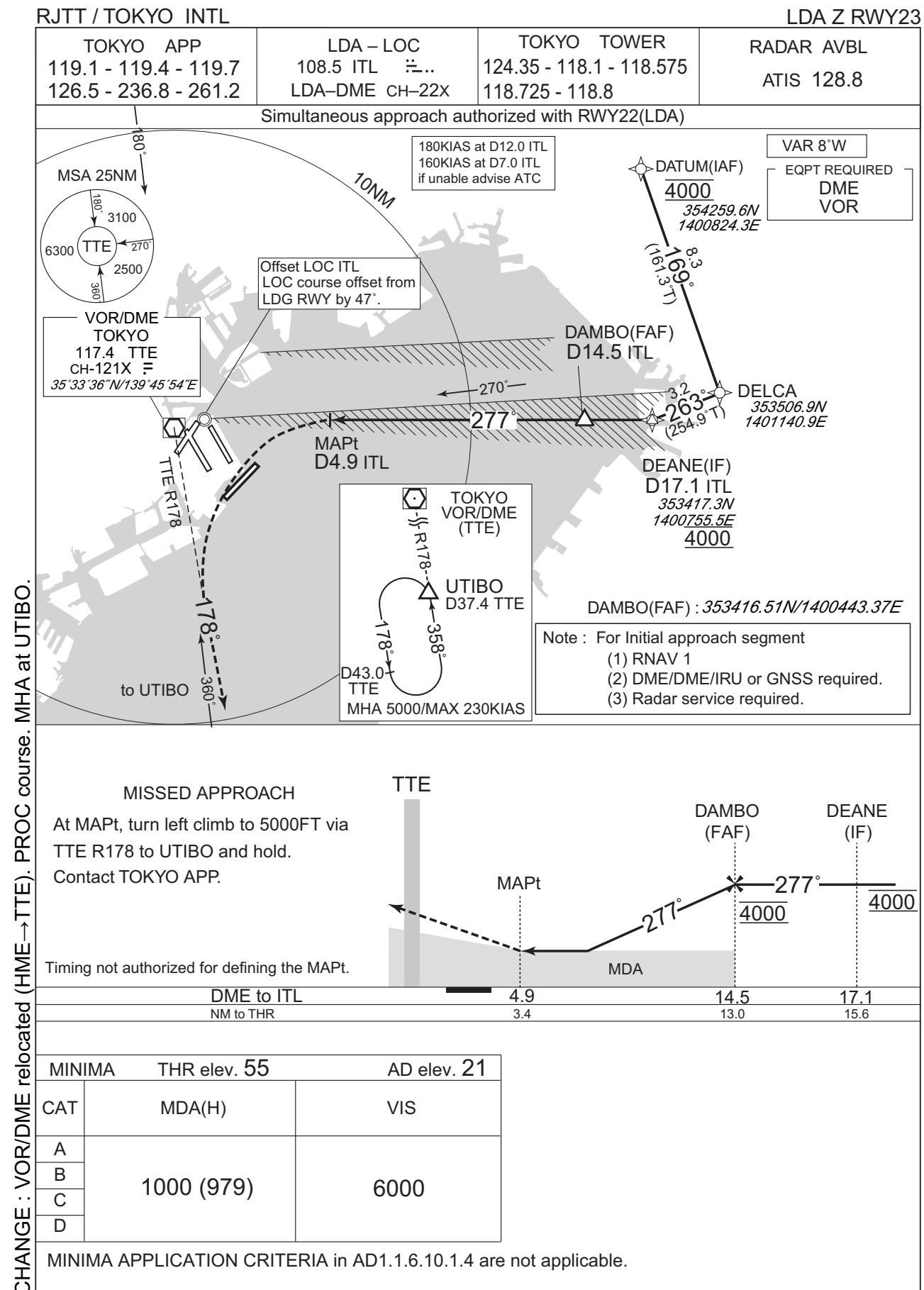
RJTT / TOKYO INTL

ILS Y or LOC Y RWY23

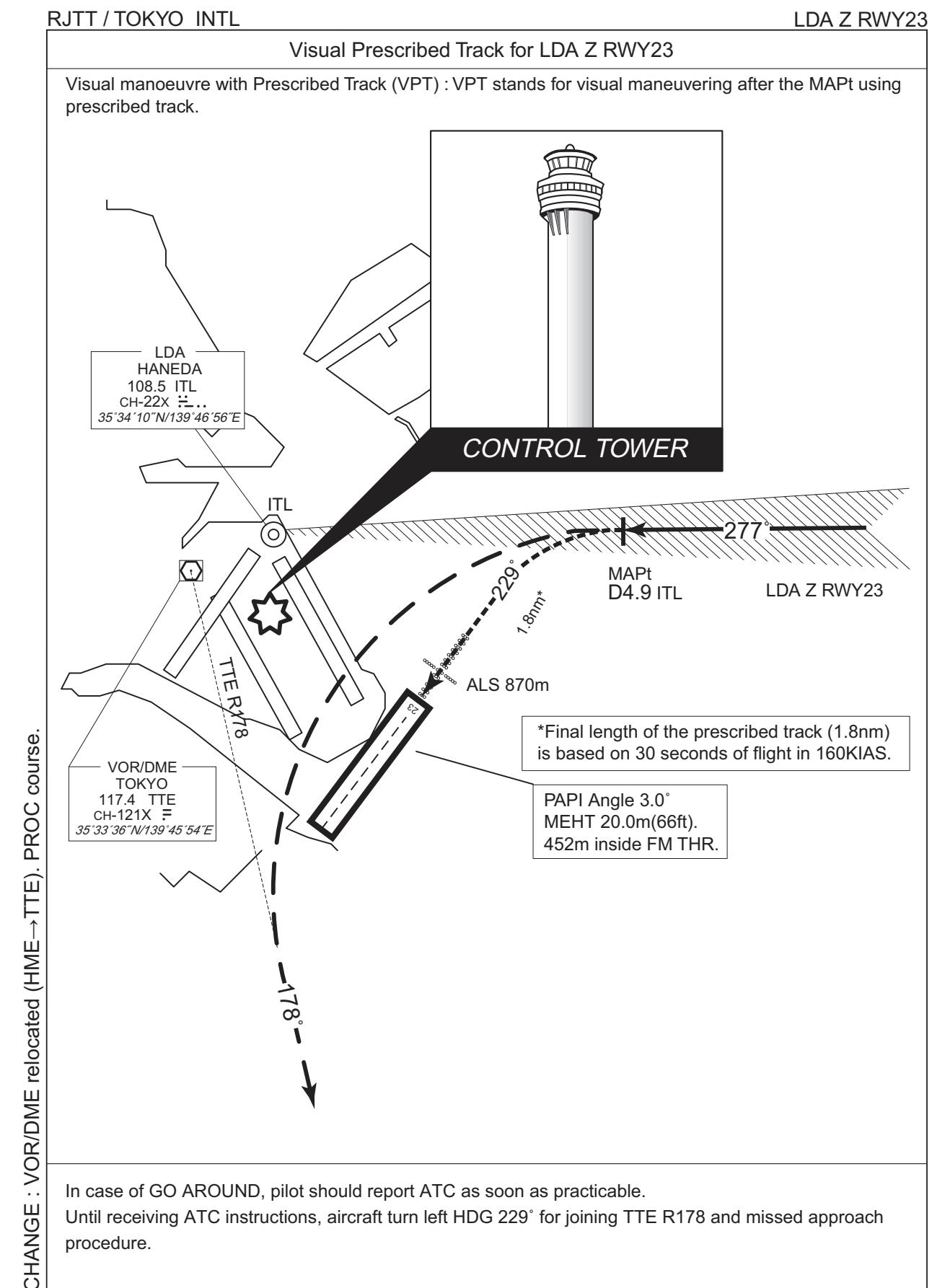


CHANGE : VORDME relocated (HME→TTE), PROC course. No turn before ITD established. Critical DME abolished.

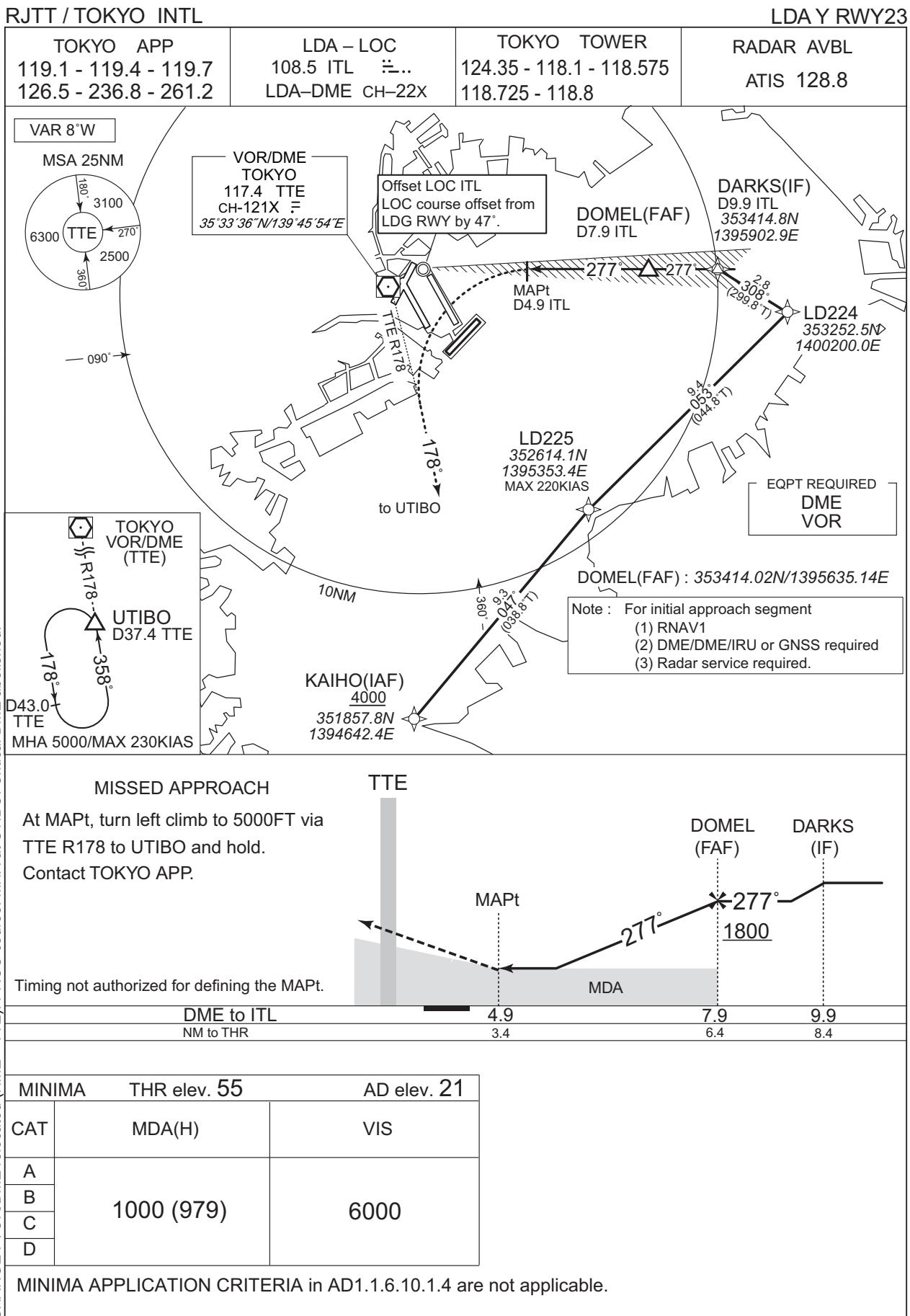
INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



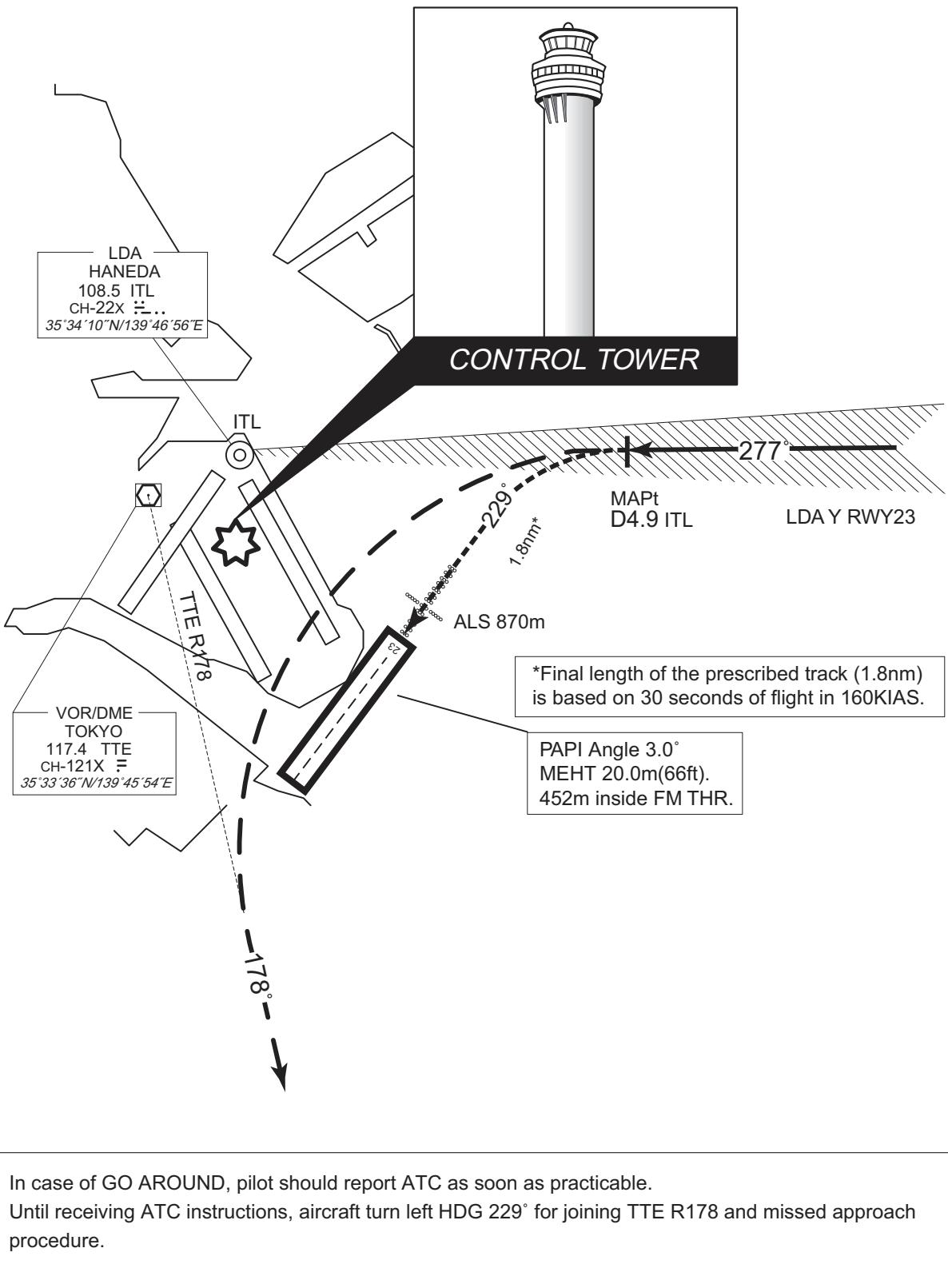
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RJTT / TOKYO INTL

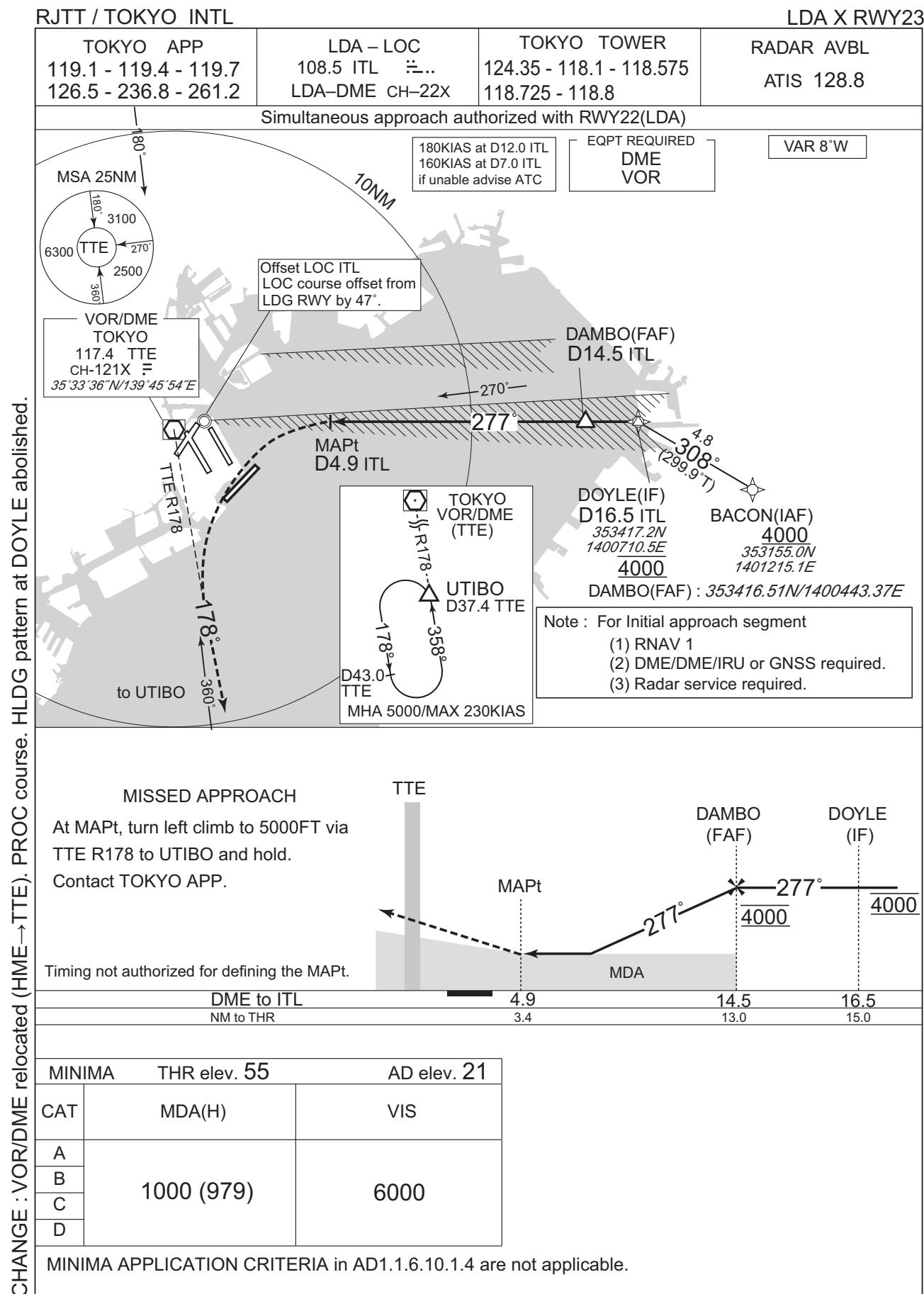
LDA Y RWY23

## Visual Prescribed Track for LDA Y RWY23

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



INSTRUMENT APPROACH CHART



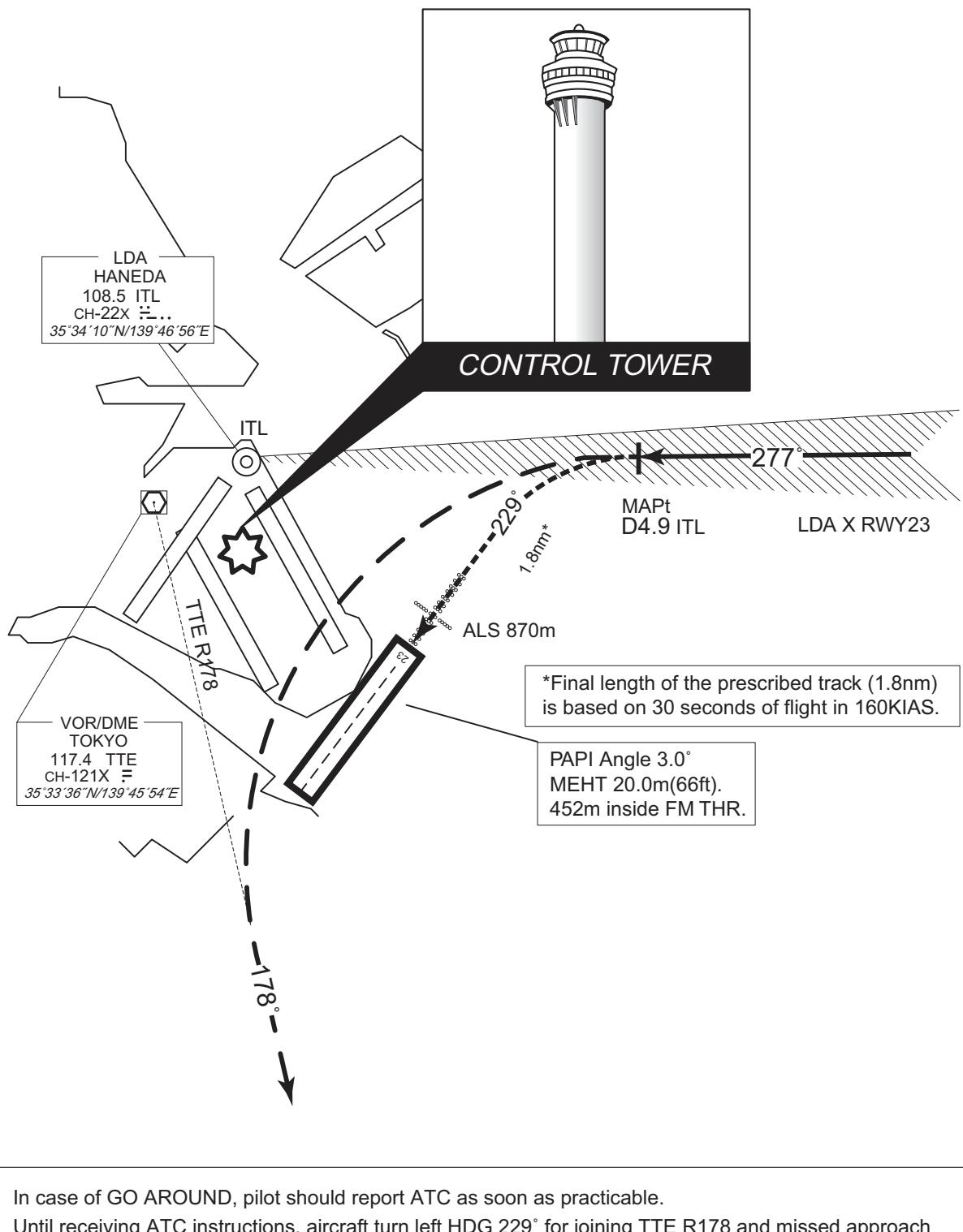
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RJTT / TOKYO INTL

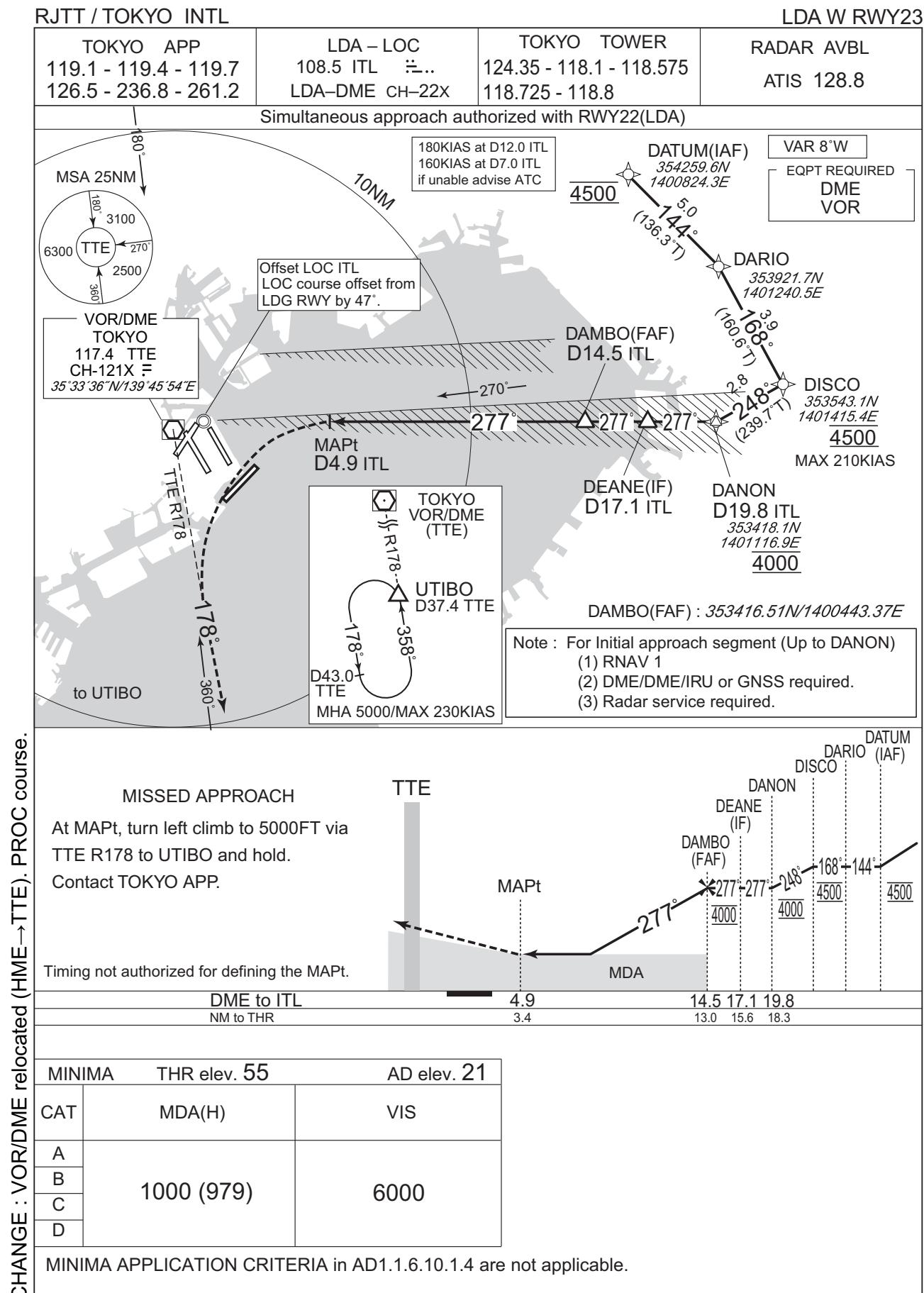
LDA X RWY23

## Visual Prescribed Track for LDA X RWY23

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



INSTRUMENT APPROACH CHART



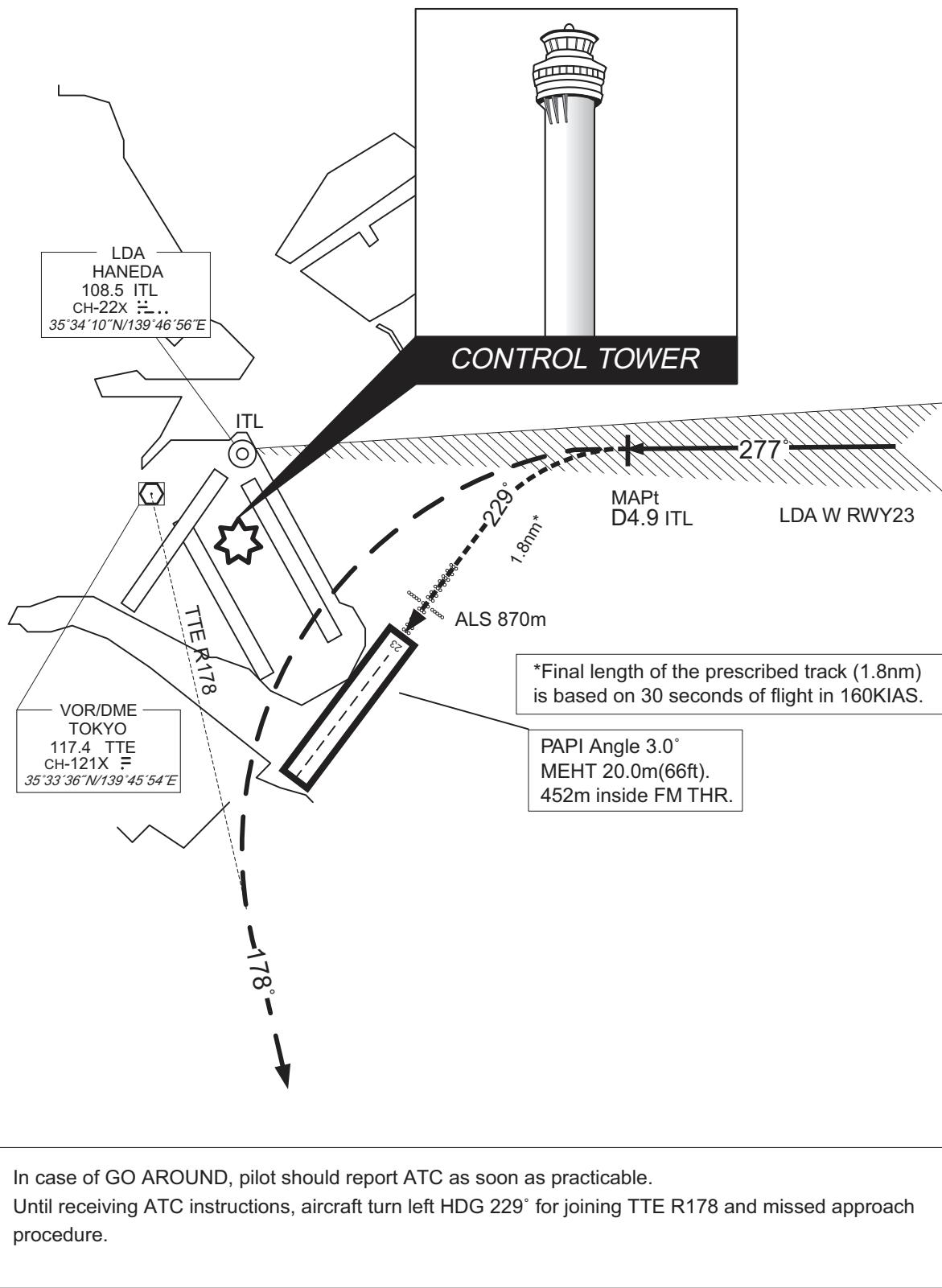
## INSTRUMENT APPROACH CHART

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.



INSTRUMENT APPROACH CHART

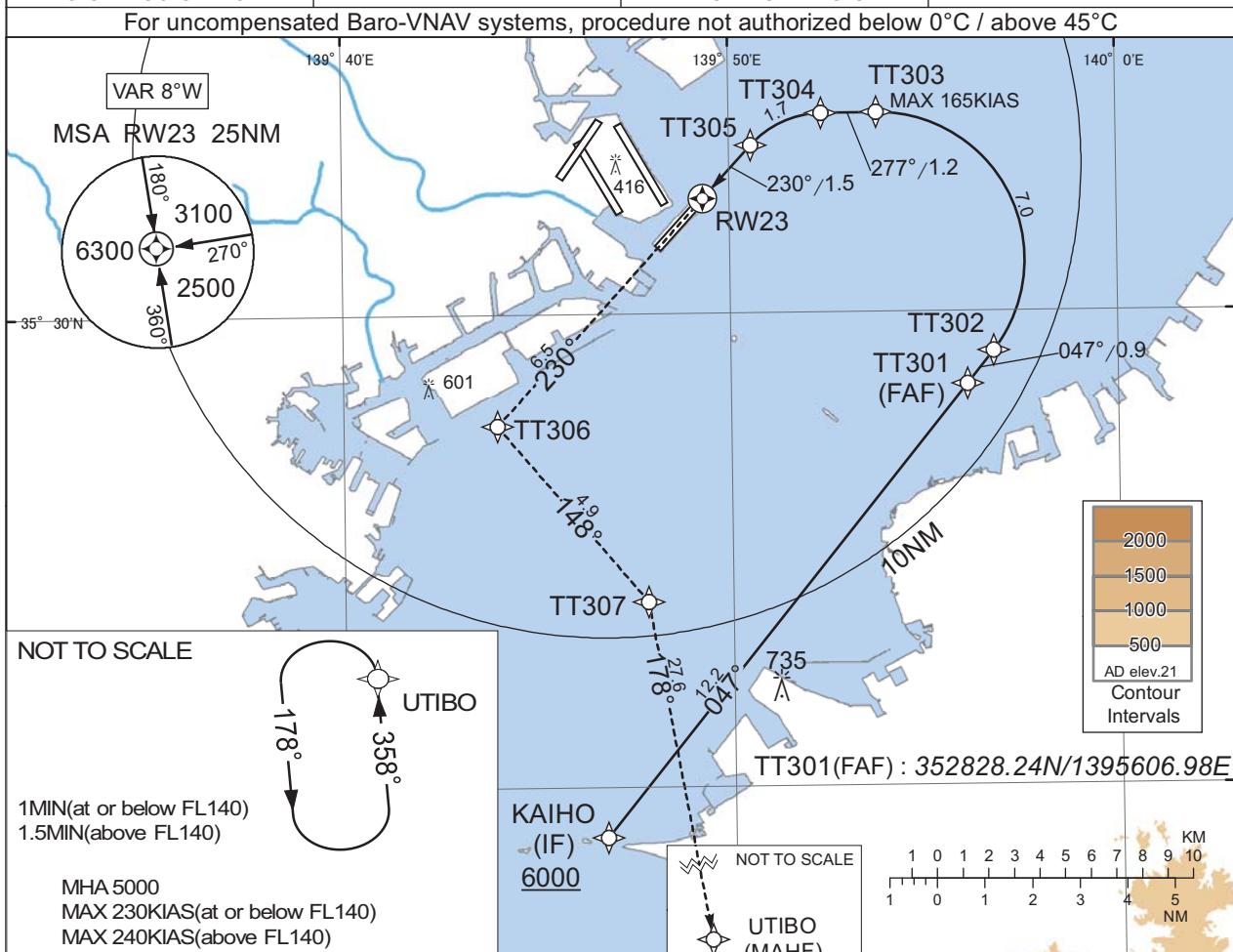
RJTT / TOKYO INTL

TOKYO APP 119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2
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RNP AR  
RF required.

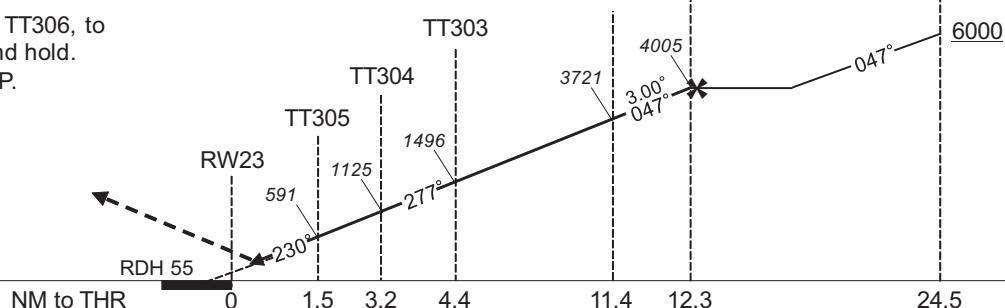
TOKYO TOWER 124.35 - 118.1 - 118.575 118.725 - 118.8
--

RNP RWY23(AR)



MISSED APPROACH

Climb to 5000FT, to TT306, to TT307, to UTIBO and hold.  
Contact TOKYO APP.



Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 55	AD elev. 21
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B		
C	330(275)	800
D		1200

CHANGE : HLDG pattern for UTIBO. Missed APCH PROC.

**Authorization Required**

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

## 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	-	5000	-	-	1.0

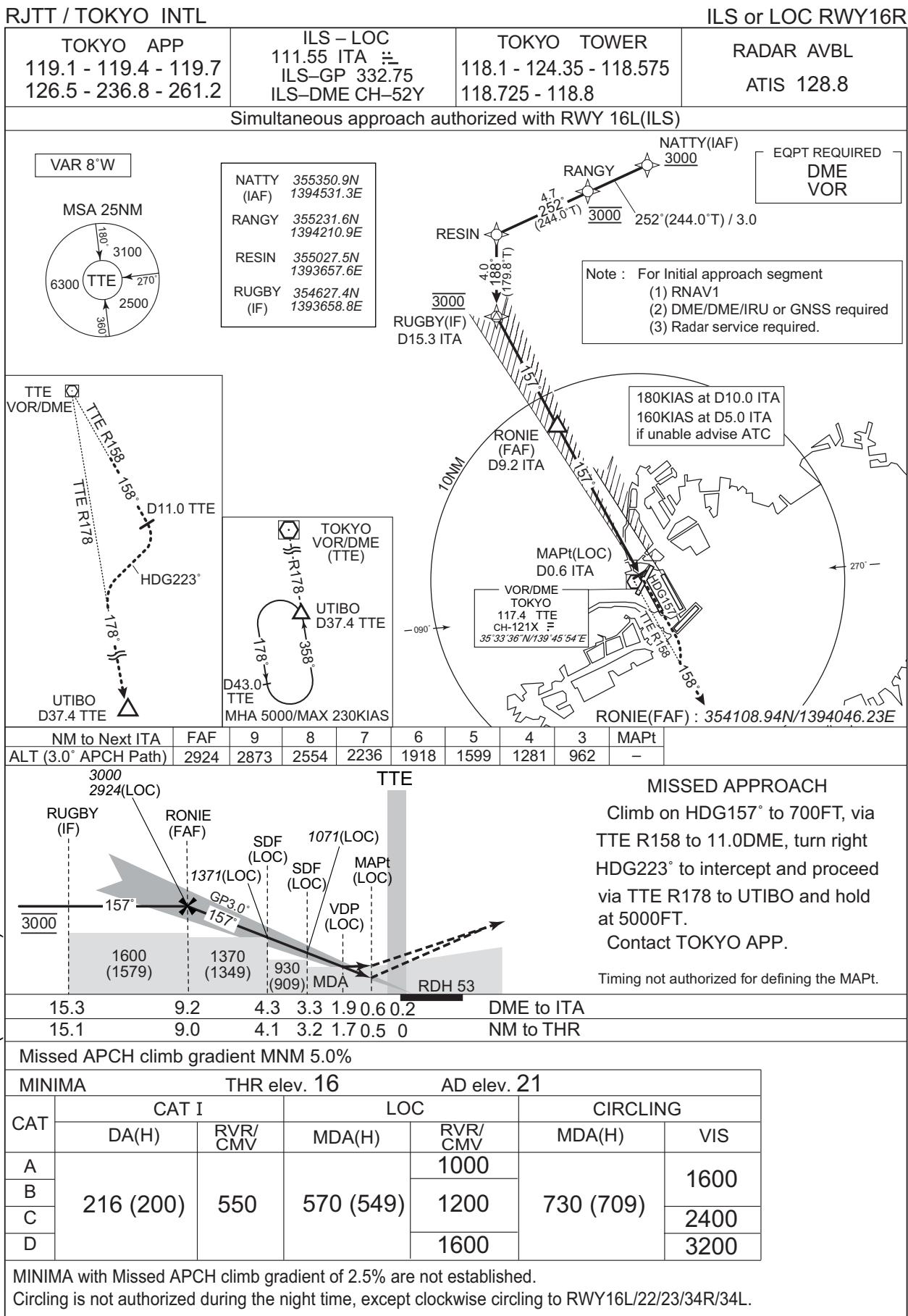
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	UTIBO	358 (350.2)	-7.9	1.0 (-14000) 1.5(+14001)	L	5000	-	-230(-14000) -240(+14001)	1.0

Waypoint Coordinates

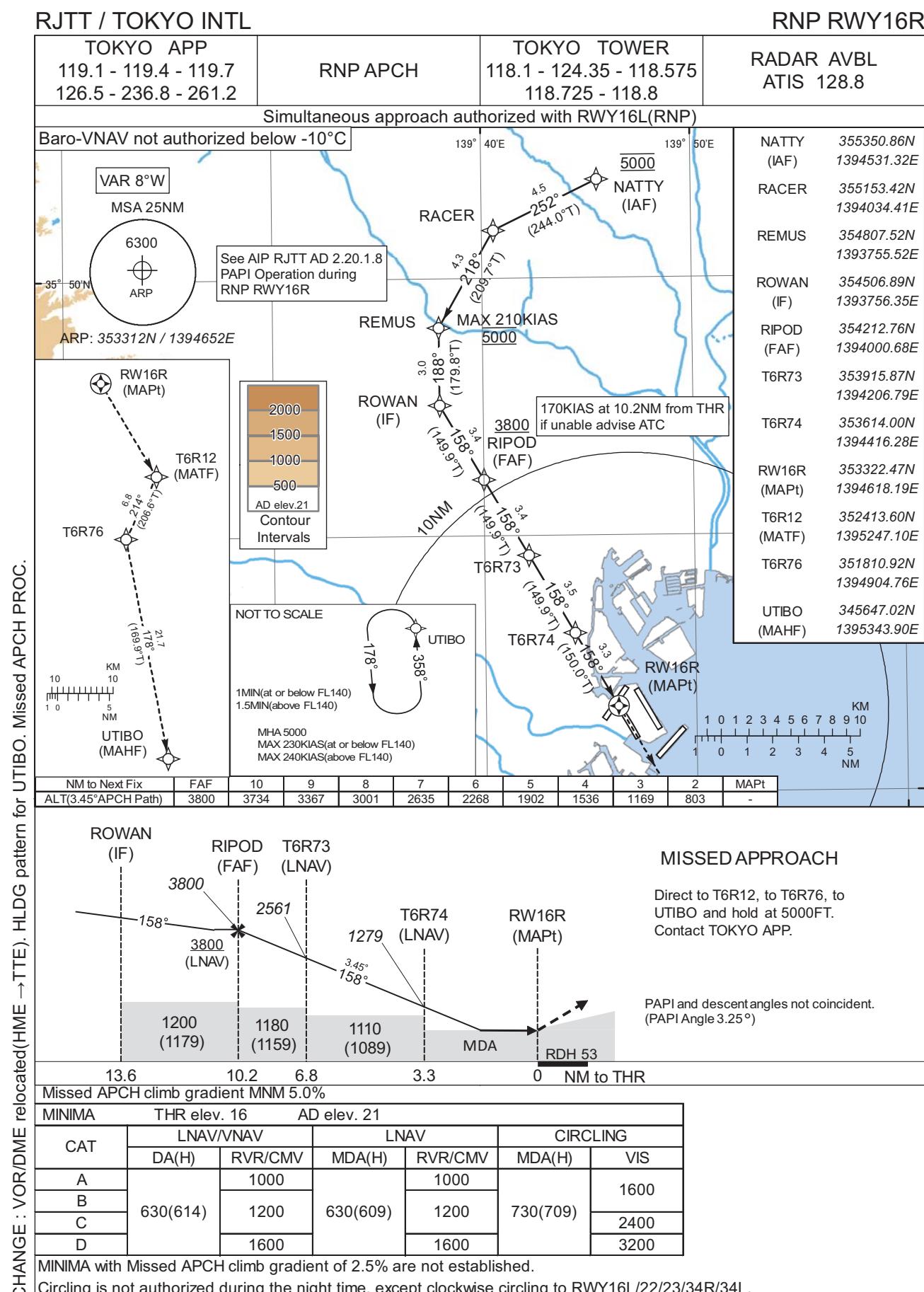
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
KAIHO	351857.83N / 1394642.43E	TTRF1	353106.44N / 1395349.88E
TT301	352828.24N / 1395606.98E	TTRF2	353212.62N / 1395225.48E
TT302	352909.99N / 1395647.99E		
TT303	353413.28N / 1395350.00E		
TT304	353412.77N / 1395224.45E		
TT305	353332.98N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

CHANGE : HLDG pattern for UTIBO established ALT restriction at UTIBO.

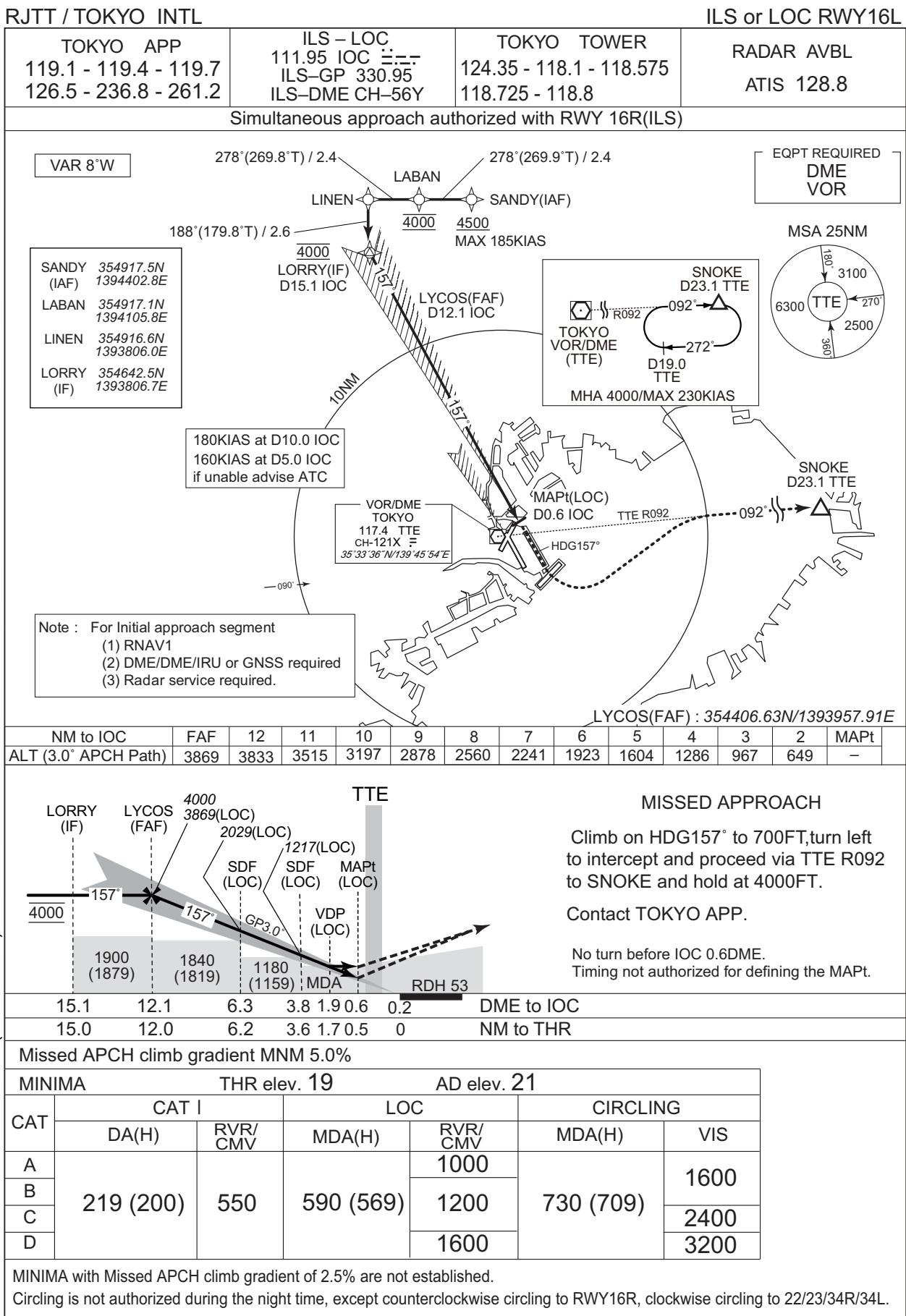
INSTRUMENT APPROACH CHART



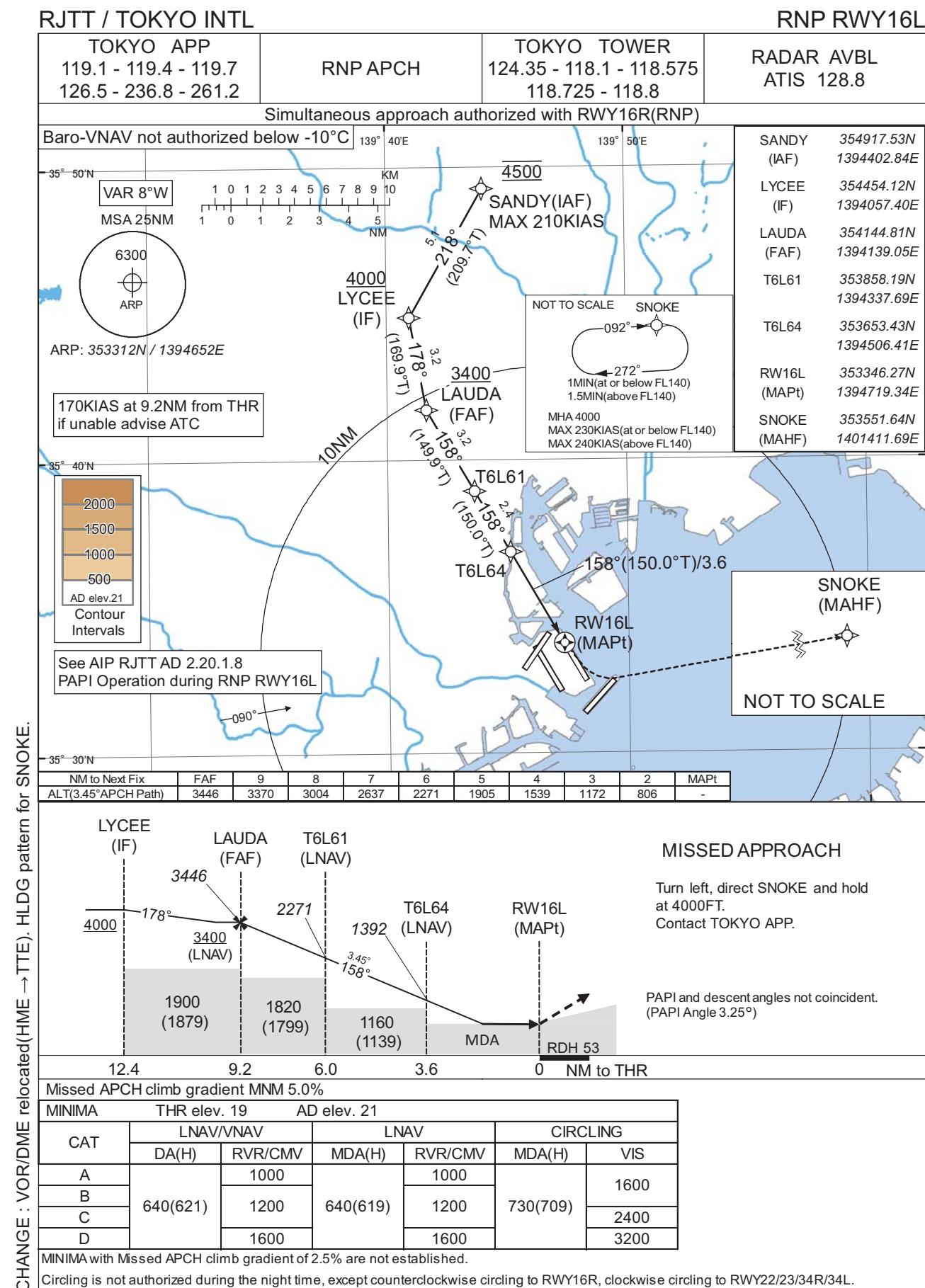
## INSTRUMENT APPROACH CHART



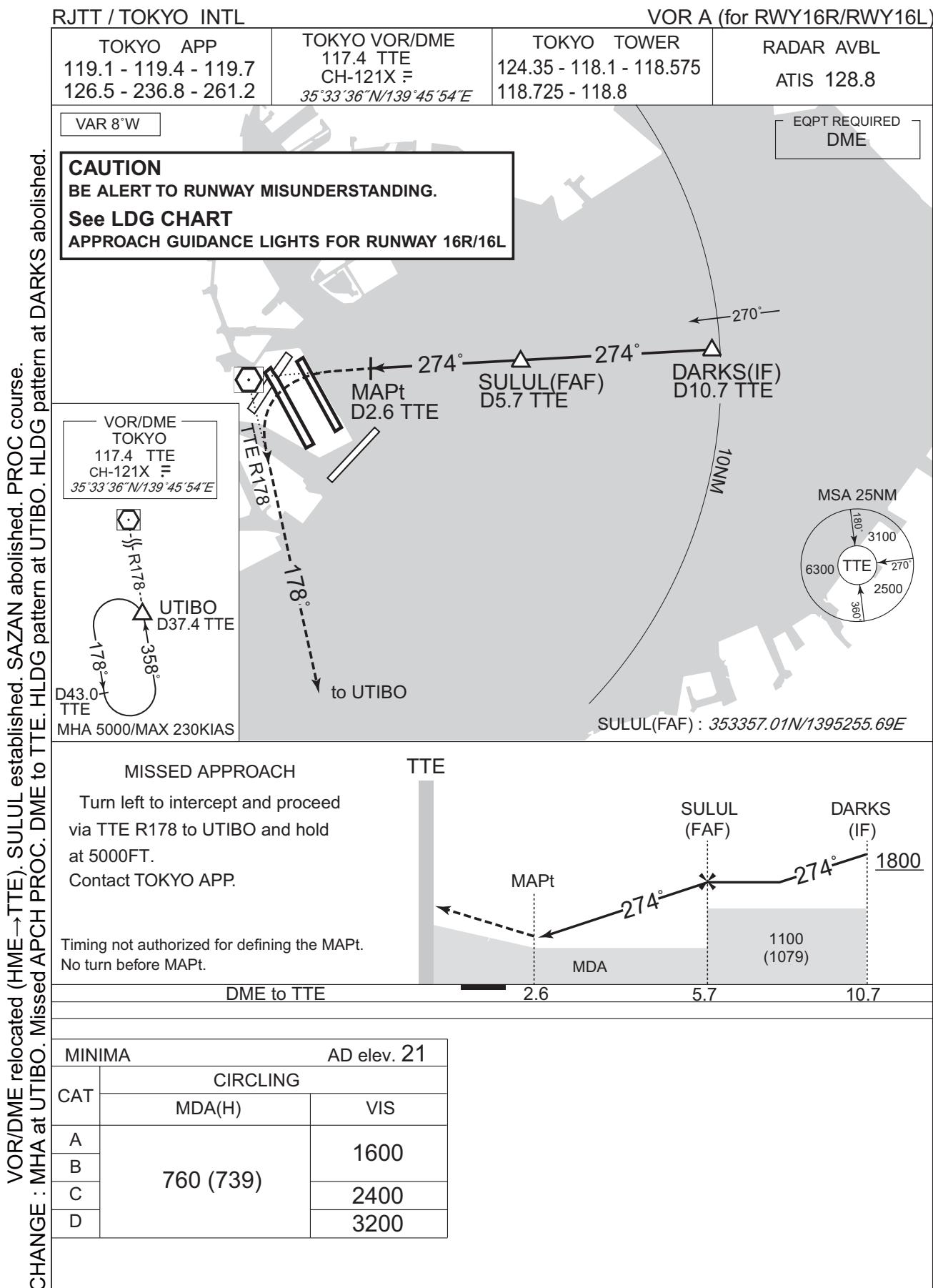
INSTRUMENT APPROACH CHART



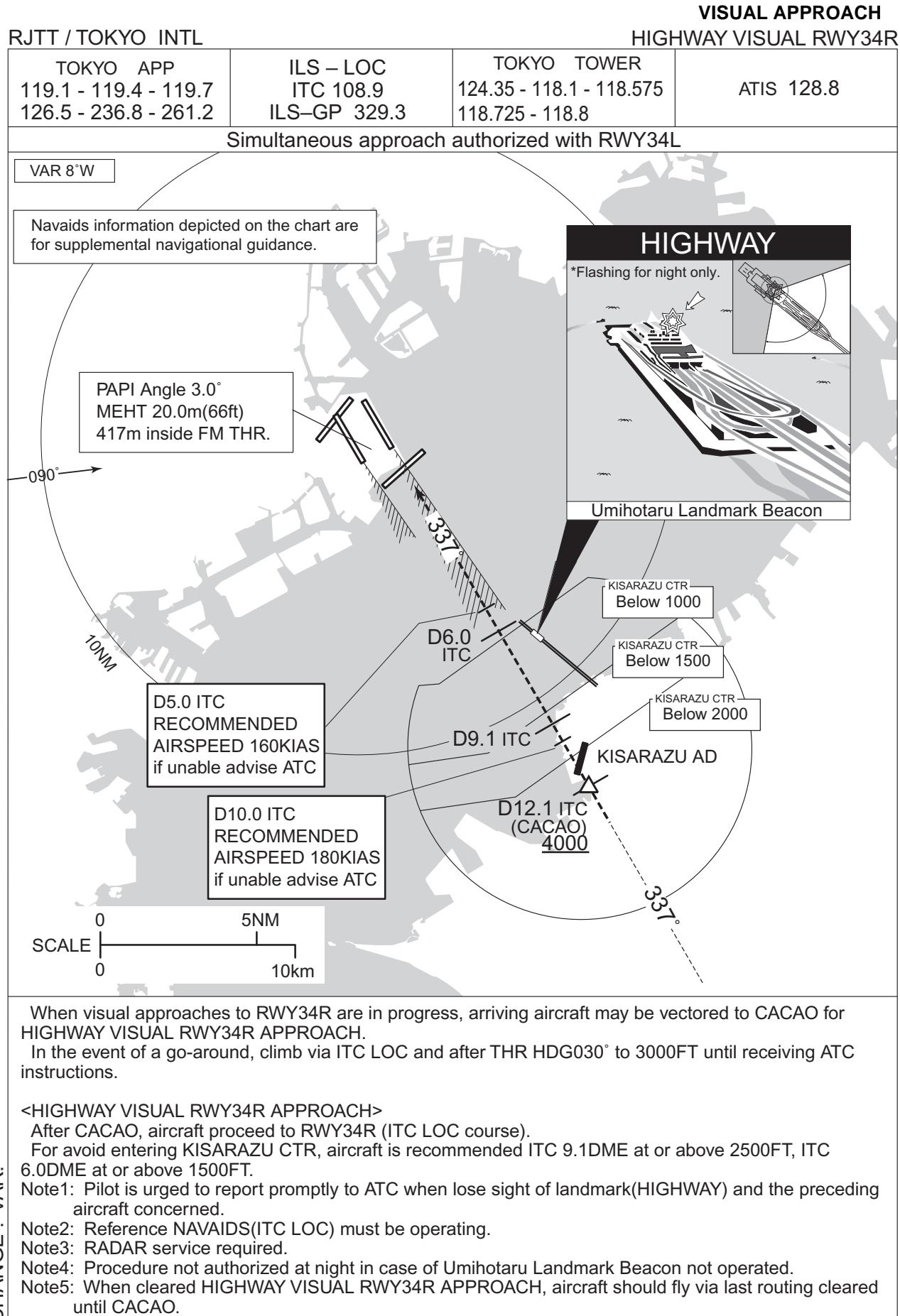
## INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



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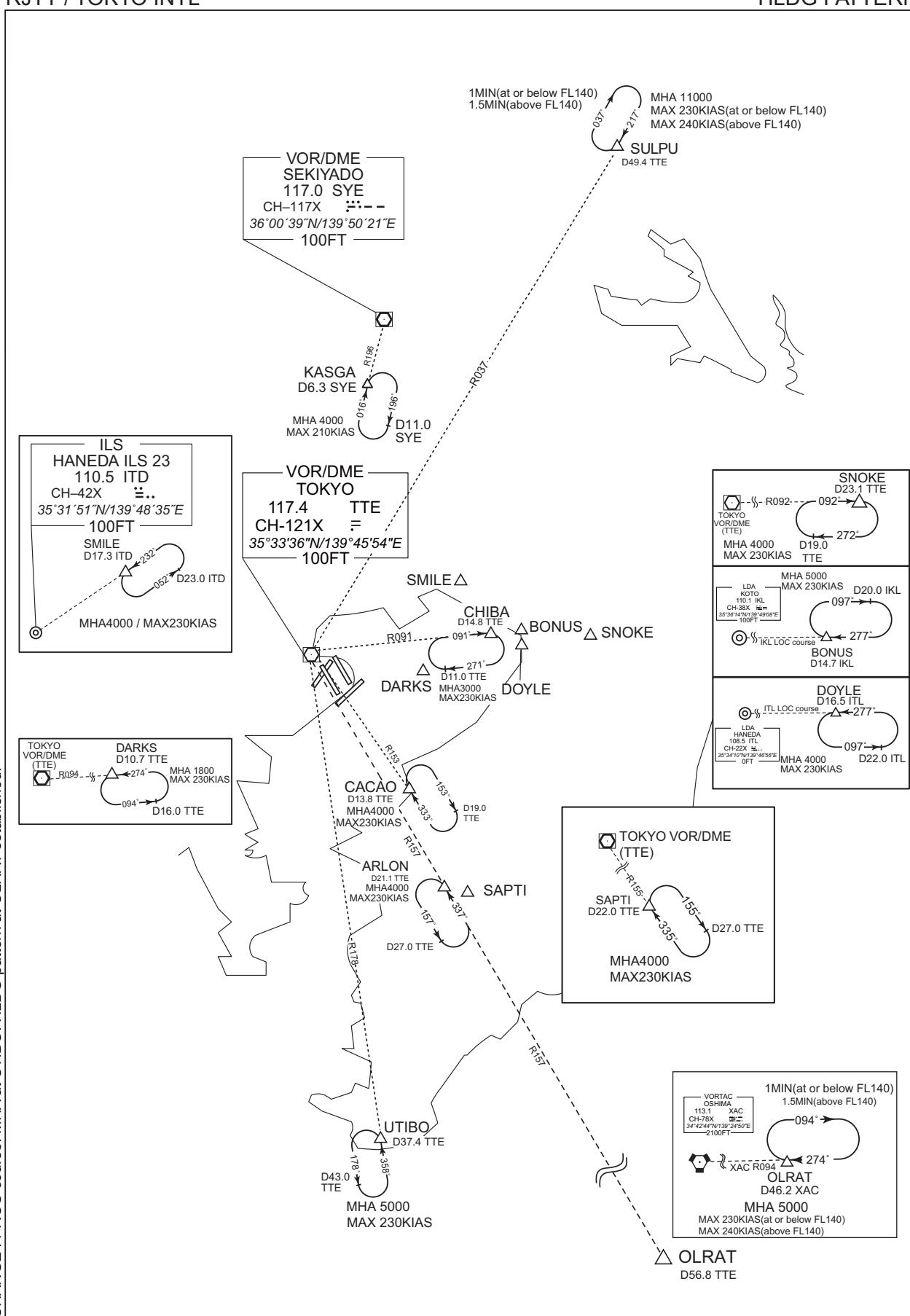


CHANGE : VAR.

RJTT / TOKYO INTL

HLDG PATTERN

CHANGE : PROC course. MHA at UTIBO. HLDG pattern at OL RAT established.  
 VOR/DME relocated (HME→TTE). SULPU, SAPTI, OL RAT established. STONE, SINGO, ADDUM abolished.



RJTT / TOKYO INTL

RNAV HLDG PATTERN

<p>Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.</p> <p>1. Outbound Time / Distance 2. Speed → See Tabular Description.</p>		RNAV 1

CHANGE : VOR/DME relocated (HME→TTE). HLDG pattern for SNOKE, UTIBO established.

## 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	CHIBA	092 (083.7)	-7.9	1.0(-14000)	—	R	3000	—	-230(-14000)	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	SNOKE	092 (084.2)	-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	UTIBO	358 (350.2)	-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	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : HLDG pattern (SNOKE, UTIBO) established.

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RNAV HLDG PATTERN

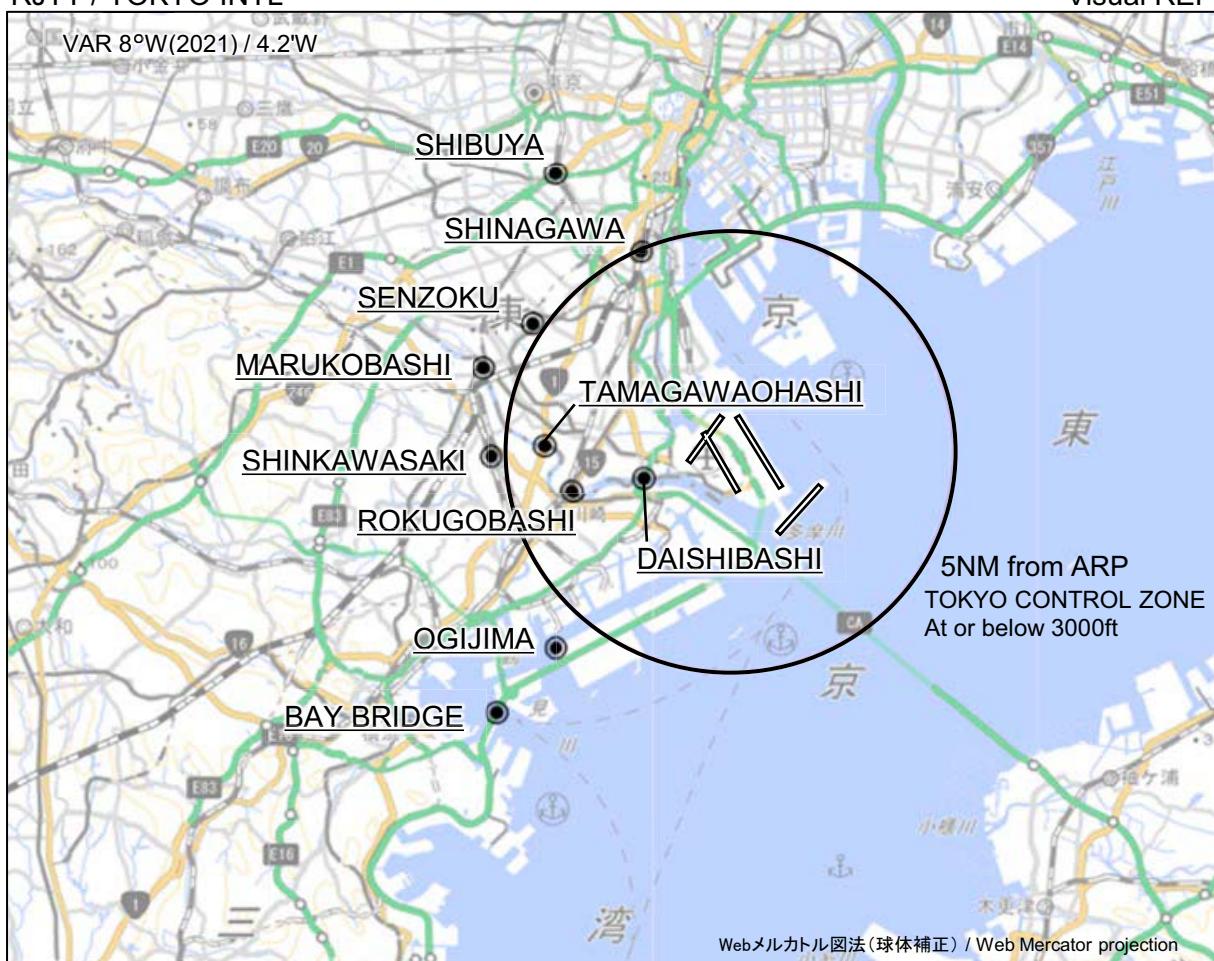
Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	NEURO	355727.6N / 1395441.3E
ANZAC	345028.8N / 1394146.7E	NOVEL	362106.9N / 1400004.9E
ARLON	351525.3N / 1395859.8E	NUMAN	354714.4N / 1401204.9E
AVEEY	344155.9N / 1402158.0E	NYLON	354018.5N / 1400919.9E
BACON	353155.0N / 1401215.1E	POLIX	361237.1N / 1402622.5E
CHIBA	353522.2N / 1400400.0E	SCREW	360301.2N / 1395400.4E
CIVIC	350840.6N / 1402552.1E	SHAFT	352227.4N / 1401313.3E
COACH	353736.0N / 1401231.5E	SNARE	354731.1N / 1395238.1E
COLOR	360116.3N / 1401219.8E	SNOKE	353551.6N / 1401411.7E
CREAM	351743.4N / 1400612.4E	SPINE	354213.5N / 1401125.8E
DENNY	354828.8N / 1400556.4E	STING	345157.9N / 1401453.4E
DREAD	360359.2N / 1395856.9E	UTIBO	345647.0N / 1395343.9E
GODIN	362425.3N / 1401655.9E	WEDGE	350900.4N / 1395846.5E
KAIHO	351857.8N / 1394642.4E	XAC	344244.1N / 1392450.5E
MESSE	351100.8N / 1402214.7E		

CHANGE : HLDG pattern (SNOKE, UTIBO) established.

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Visual REP



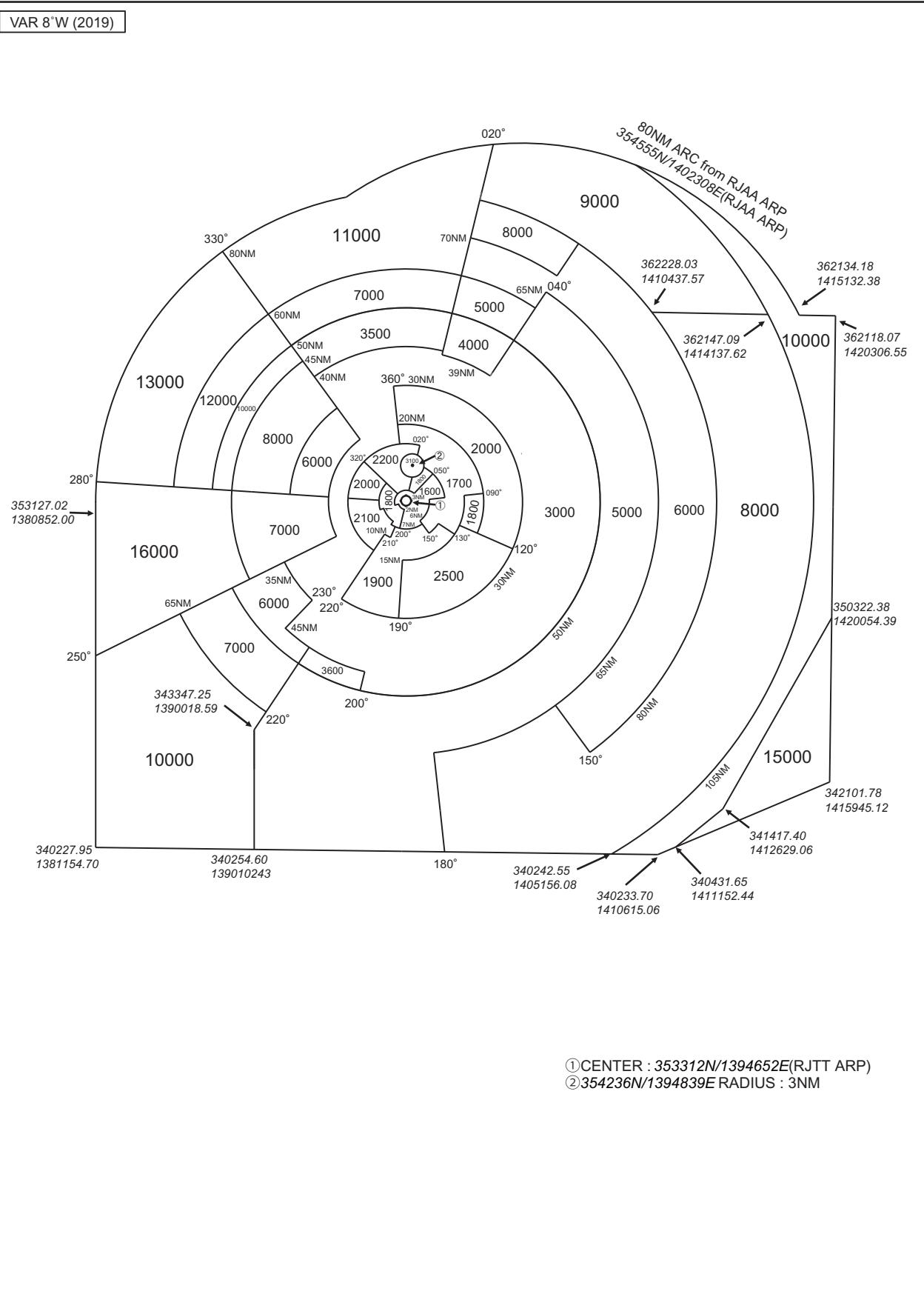
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

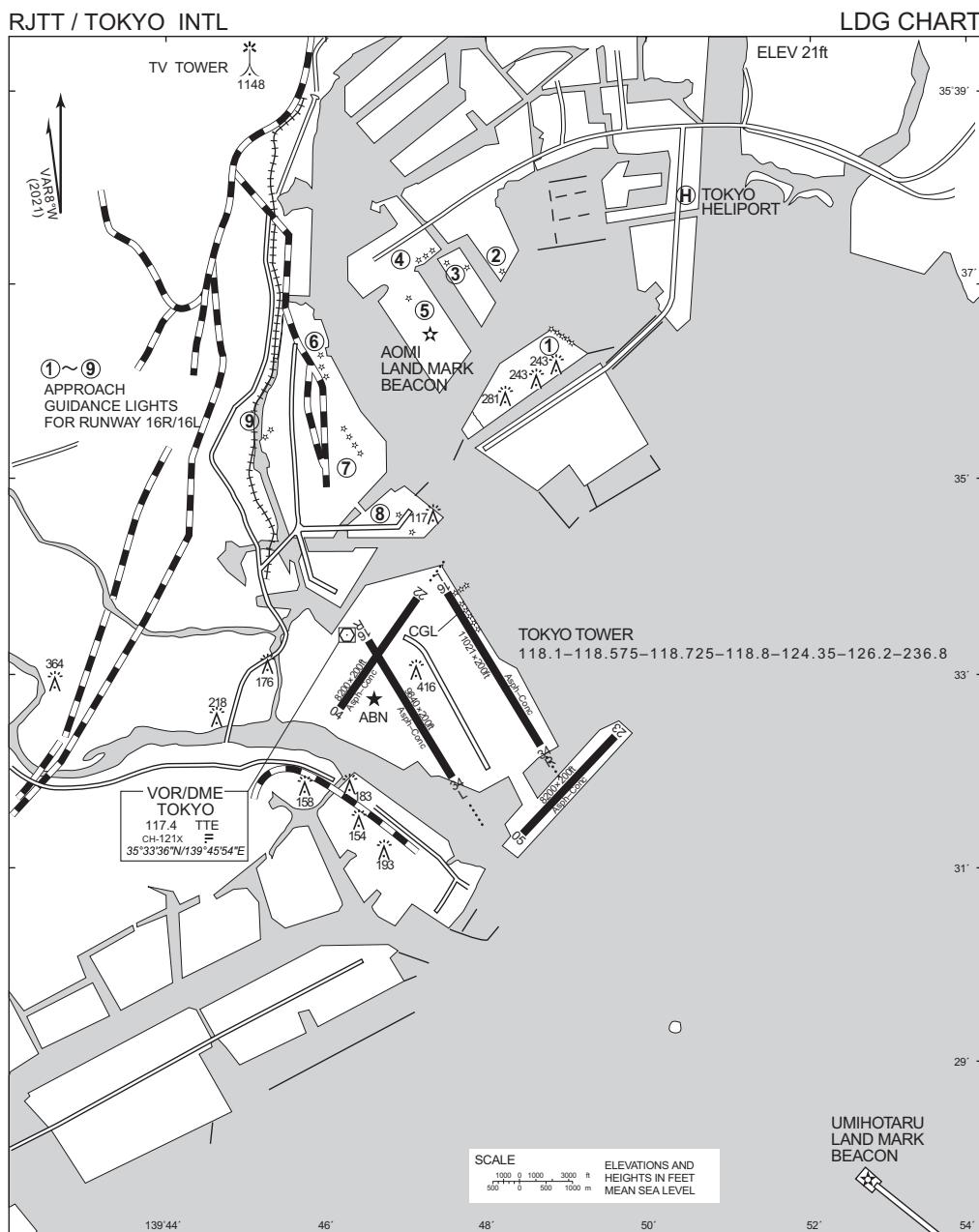
Call sign	BRG / DIST from ARP	Remarks
渋谷 Shibuya	328°T / 7.4NM	JR駅 JR Station
品川 Shinagawa	336°T / 5.0NM	JR駅 JR Station
洗足 Senzoku	303°T / 5.3NM	池 Pond
丸子橋 Marukobashi	289°T / 5.8NM	橋 Bridge
多摩川大橋 Tamagawaohashi	272°T / 4.2NM	橋 Bridge
新川崎 Shinkawasaki	269°T / 5.4NM	JR駅 JR Station
大師橋 Daishibashi	253°T / 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 : VOR/DME relocated (HME→TTE).

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.

