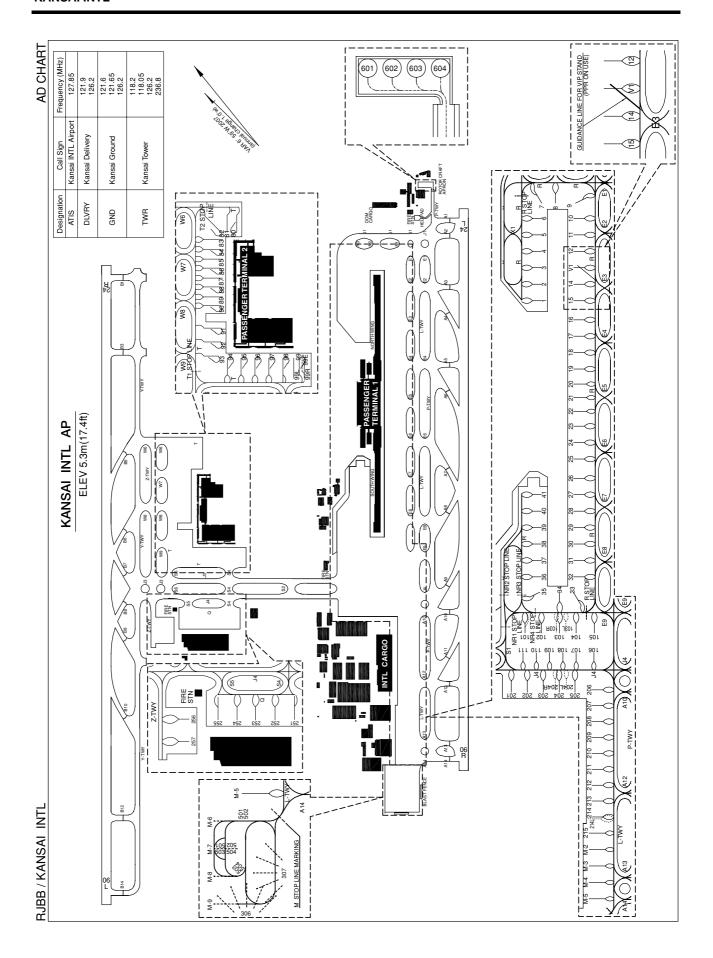
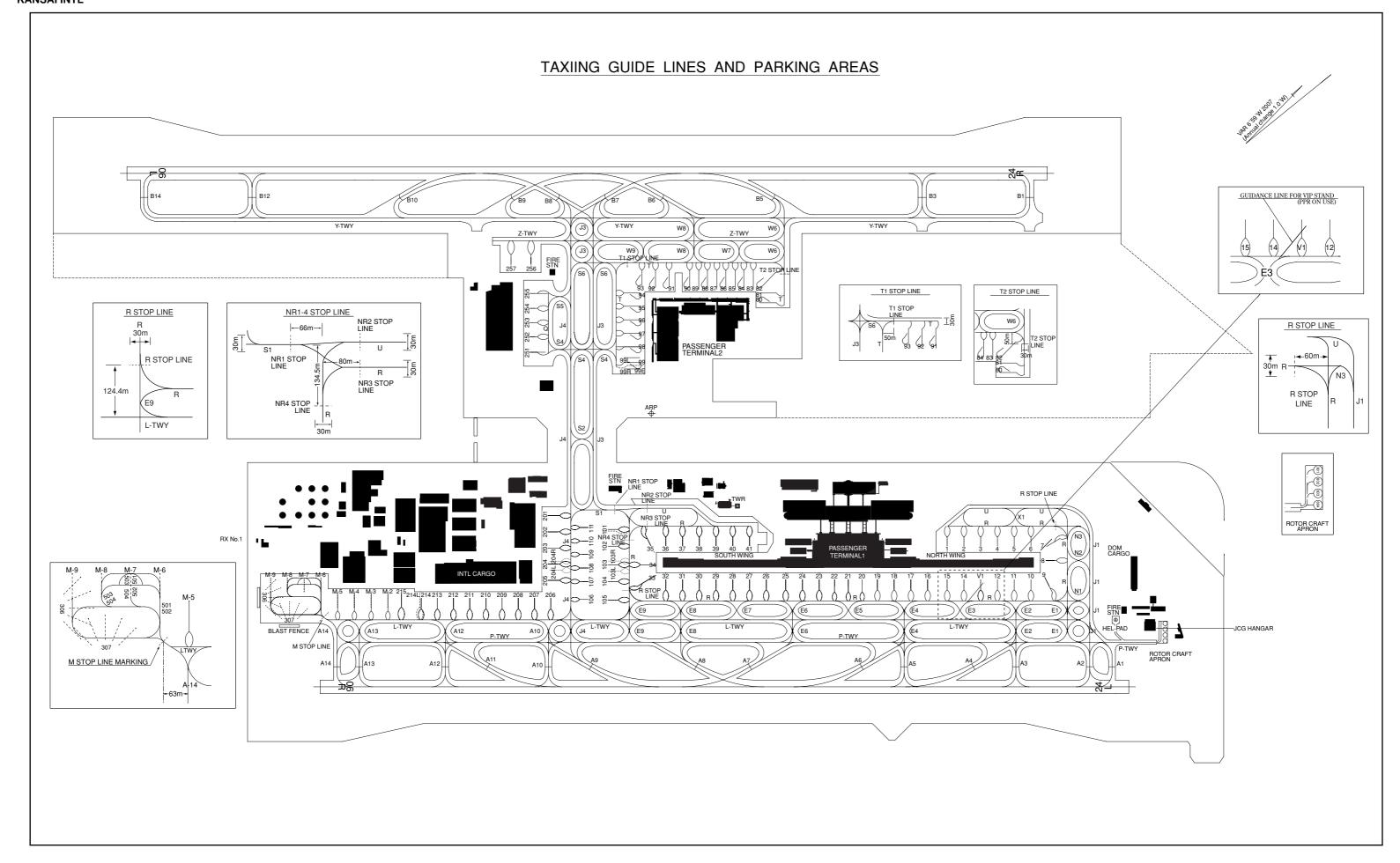
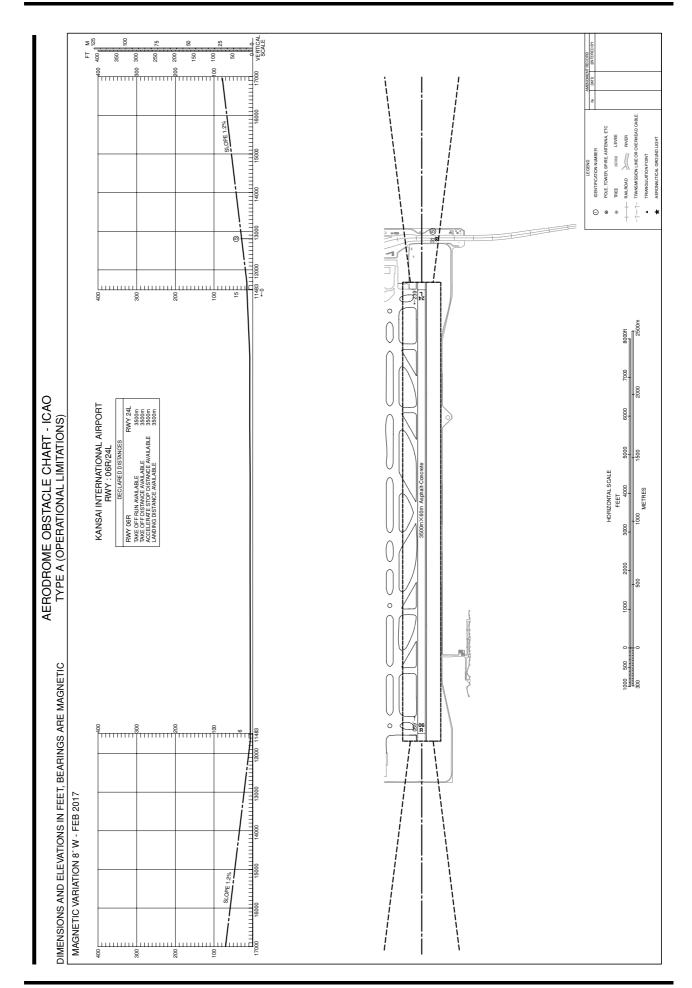
# **AERODROME CHART** KANSAI INTERNATIONAL AIRPORT ELEV 5.3m(17.4ft) APPROACH LIGHTING SYSTEM APPROACH LIGHTING SYSTEM PAPI ANGLE 3.0° MEHT 20m (66ft) 383m INSIDE FM THR RUNWAY THRESHOLD LIGHTS RVR RUNWAY CENTERLINE LIGHTS RED FILTERS LAST 900m WHITE TOUCH DOWN ZONE LIGHTS SEQUENCED FLASHING LIGHTS (SFL-V) SEQUENCED FLASHING LIGHTS (SFL-V) OVERRUN AREA Y-TWY Y-TWY TAXIWAY LIGHTS TAXIWAY CENTERLINE LIGHTS BLUE GREEN STOP BAR LIGHTS (B1,B3,B5 ~ B10,B12,B14) PAPI ANGLE 3.0° MEHT 20.5m (67ft) 421m INSIDE FM THR RUNWAY GUARD LIGHTS (B1,B3,B5 $\sim$ B10,B12,B14) (11) (110) (109) (108) (107) RX No.1 ROTOR CRAFT APRON CHANGE: CEILO METER relocated. SEQUENCED FLASHING LIGHTS (SFL-V) SEQUENCED FLASHING LIGHTS (SFL-V) RVR © WIND SPEED METER APPROACH LIGHTING SYSTEM APPROACH LIGHTING SYSTEM PAPI ANGLE 3.0° MEHT 20.5m (67ft) 474m INSIDE FM THR CEILO METER RUNWAY GUARD LIGHTS (A1 ~ A14) MEHT 20m (66ft) 416m INSIDE FM THR

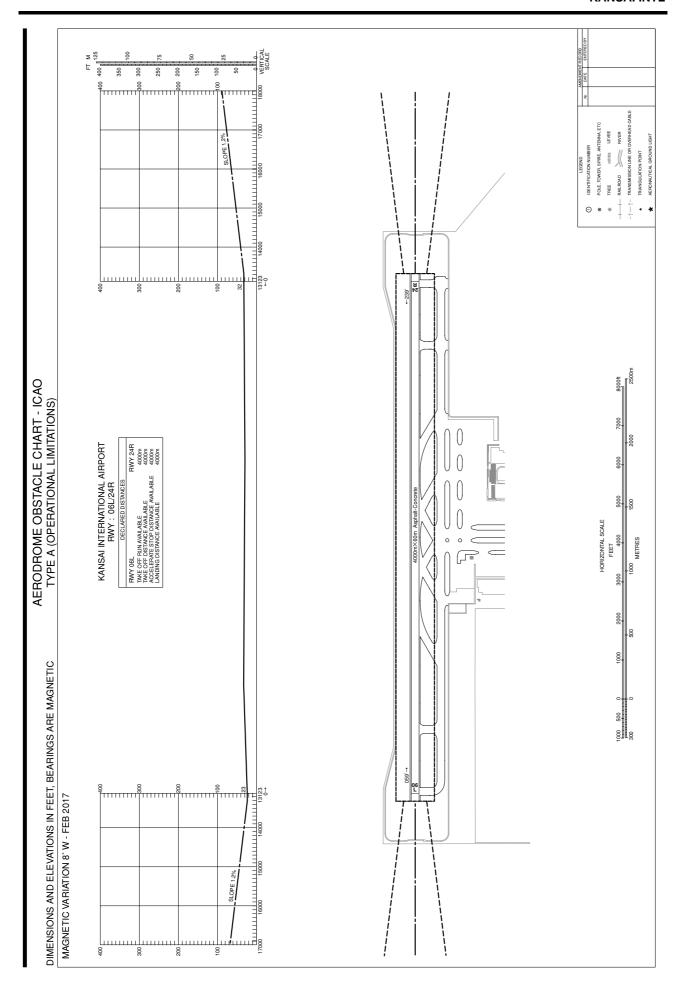
Civil Aviation Bureau, Japan (EFF:23 APR 2020)





Civil Aviation Bureau, Japan (EFF:1 FEB 2018)



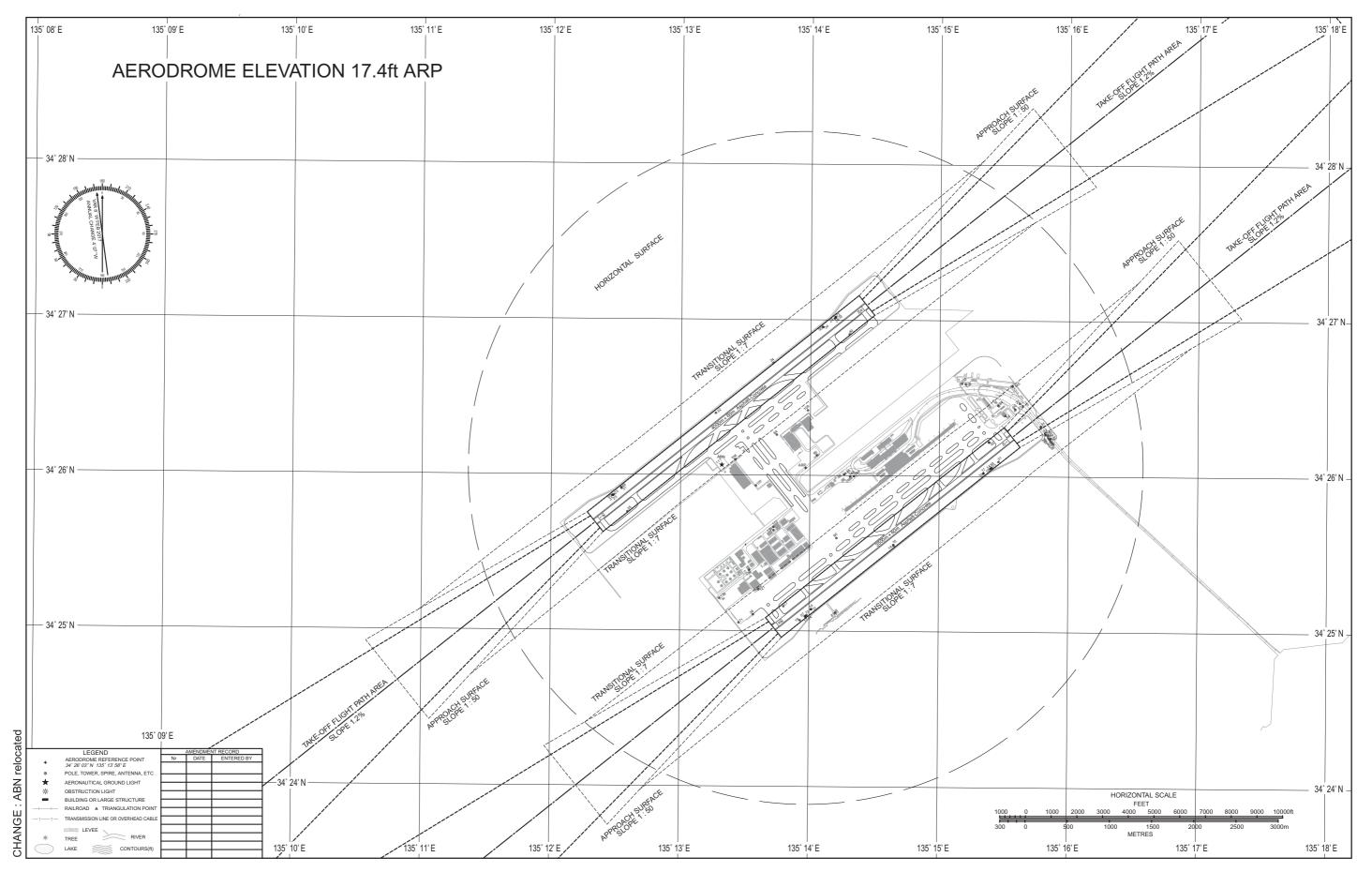


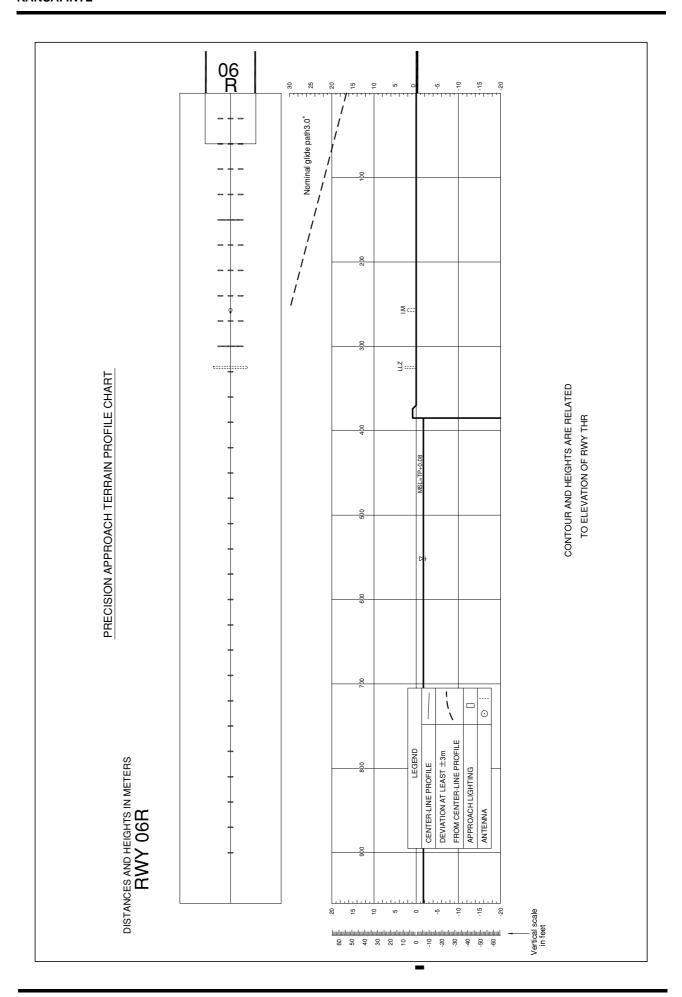
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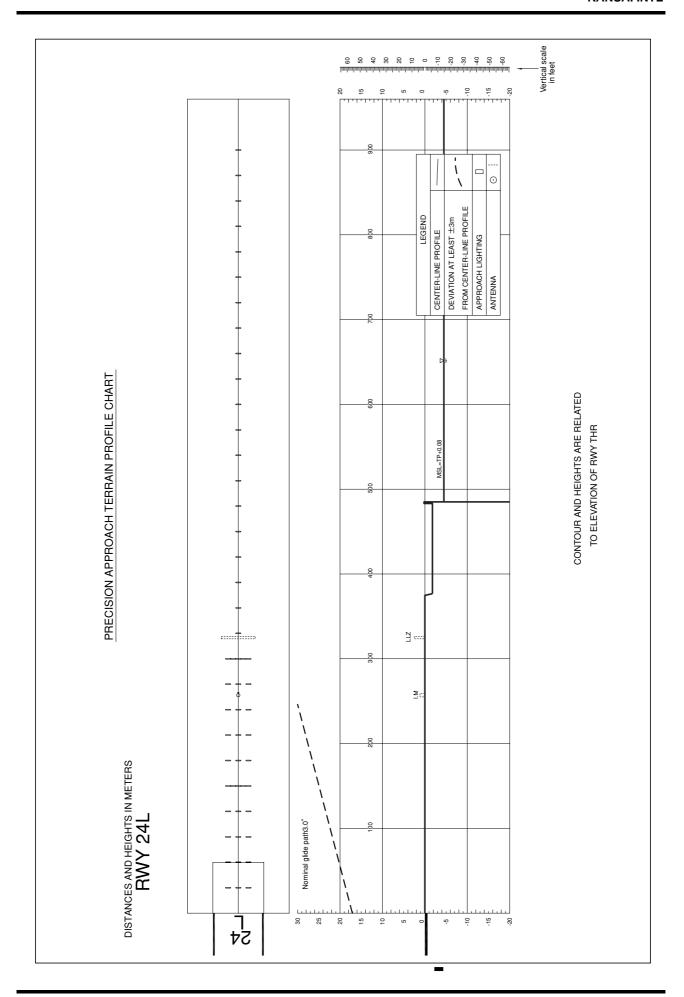
AERODROME OBSTRUCTION CHART

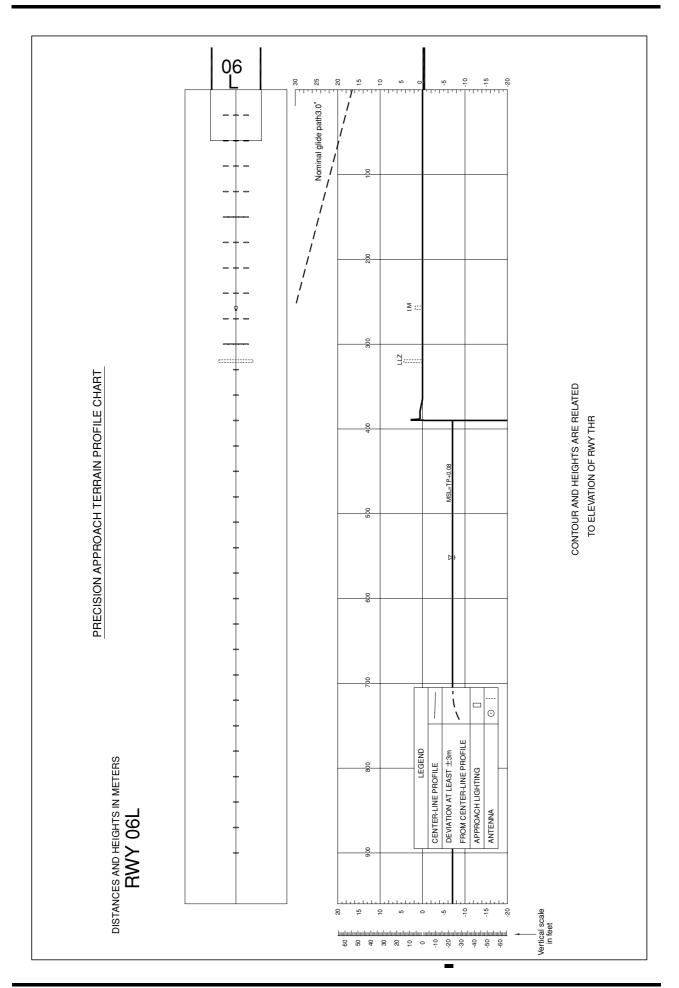
TYPE B

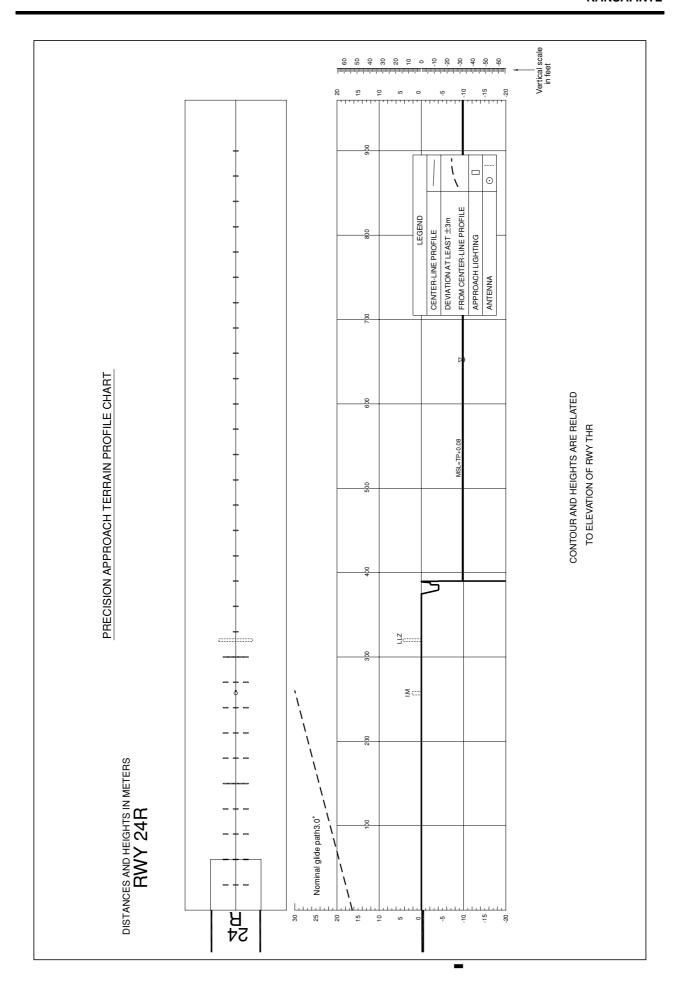
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETICS











SID RJBB / KANSAI INTL

## MAIKO EIGHT DEPARTURE

RWY06R: Climb via KNE R052 to 3.5DME, turn left, via KCE R167 to intercept

and proceed via YOE R279 to MAIKO.

Cross KNE R034 at or above 2500FT,...

RWY06L: Turn left, climb on HDG273° to intercept and proceed via KNE R318

to MAIKO,...

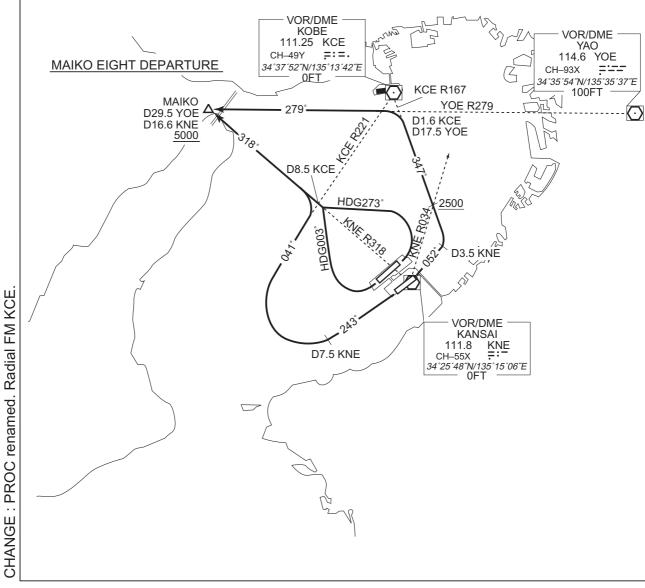
RWY24R: Turn right, climb on HDG003° to intercept and proceed via KNE R318

to MAIKO,...

RWY24L: Climb via KNE R243 to 7.5DME, turn right, via KCE R221 to intercept

and proceed via KNE R318 to MAIKO,...

...cross MAIKO at or above 5000FT.



## RJBB / KANSAI INTL SID

## FERRY FIVE DEPARTURE

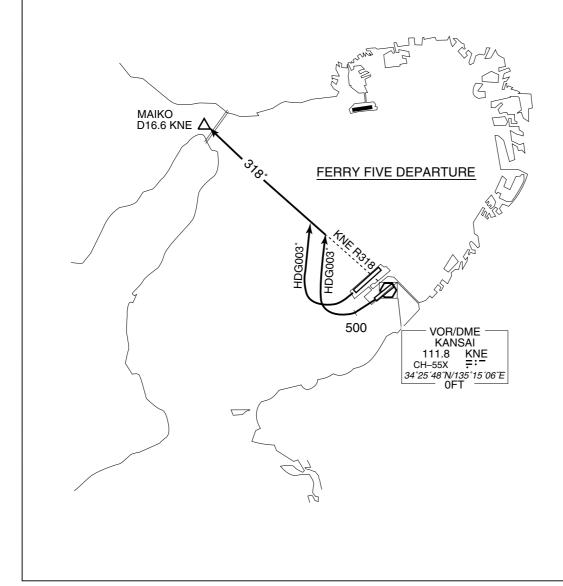
RWY24R : Turn right, climb on HDG003° to intercept and proceed via KNE R318

to MAIKO.

RWY24L : Climb RWY HDG to 500FT, turn right HDG003° to intercept and

proceed via KNE R318 to MAIKO.

Note RWY24L: No turn before DER.



#### RJBB / KANSAI INTL

**TRANSITION** 

#### MIYAZU TRANSITION

From over MAIKO, proceed via KCE R272 to KAWAT, via TSC R001 to CHIZU via AYAYA, via YME R236 to YME VOR/DME.

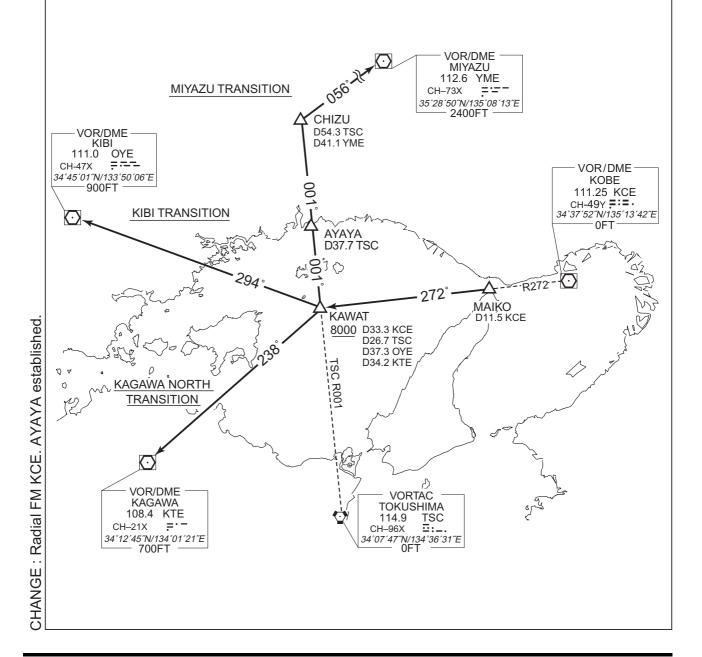
Cross KAWAT at or above 8000FT.

#### KIBI TRANSITION

From over MAIKO, proceed via KCE R272 to KAWAT, via OYE R114 to OYE VOR/DME. Cross KAWAT at or above 8000FT.

#### KAGAWA NORTH TRANSITION

From over MAIKO, proceed via KCE R272 to KAWAT, via KTE R058 to KTE VOR/DME. Cross KAWAT at or above 8000FT.



RJBB / KANSAI INTL SID TOMOH WEST ONE DEPARTURE RWY24R/L : Turn right, climb on HDG270° to intercept and proceed via KCE R215 to TOMOH. OR/DME KOBE 111.25 KCE CH-49Y 34°37′52″N/135°13′42″E — OFT — TOMOH WEST ONE DEPARTURE HDG270° VOR/DME KANSAI 111.8 KNE CH-55X **F:** 34°25′48″N/135°15′06″E HDG270° TOMOH D23.8 KCE

RJBB / KANSAI INTL SID

#### TOMOH TWO DEPARTURE

RWY06R: Climb via KNE R052 to 3.5DME, turn left, via KCE R167 to intercept and

proceed via YOE R269, via KCE R215 to TOMOH.

Cross KNE R034 at or above 2500FT. ...

RWY06L: Turn left, climb on HDG270° to intercept and proceed via KCE R215 to

TOMOH....

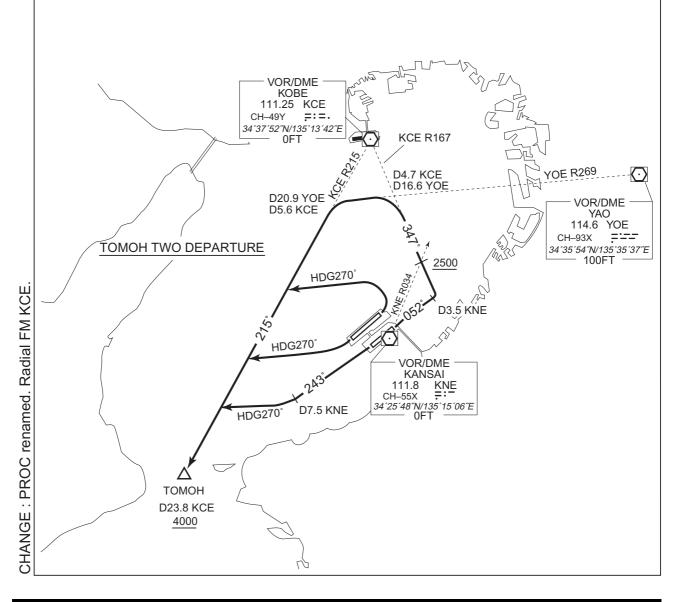
RWY24R: Turn right, climb on HDG270° to intercept and proceed via KCE R215

to TOMOH. ...

RWY24L : Climb via KNE R243 to 7.5DME, turn right HDG270° to intercept and

proceed via KCE R215 to TOMOH. ...

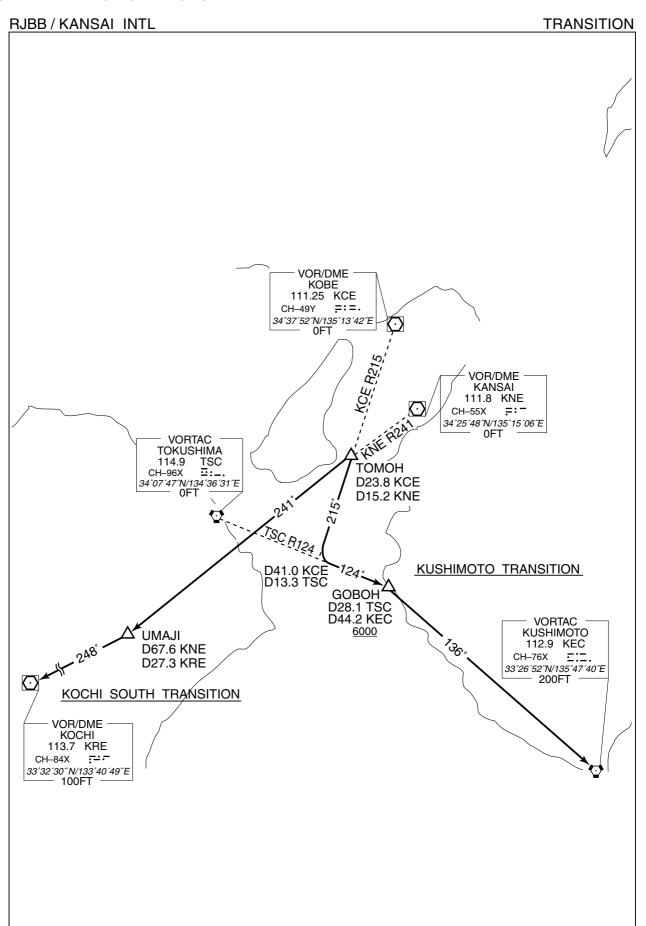
... Cross TOMOH at or above 4000FT.

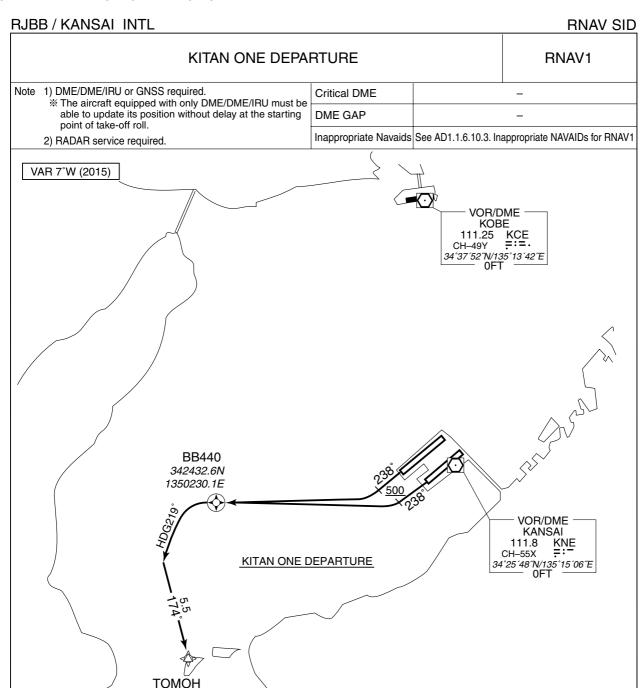


AIP Japan KANSAI INTL

STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL	TRANSITION	
KOCHI SOUTH TRANSITION  From over TOMOH, proceed via KNE R241 to UMAJI, via KRE R06 VOR/DME.	8 to KRE	
KUSHIMOTO TRANSITION  From over TOMOH, proceed via KCE R215 to intercept and proceed R124 to GOBOH, via KEC R316 to KEC VORTAC.  Cross GOBOH at or above 6000FT.	d via TSC	





#### KITAN ONE DEPARTURE

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to BB440, turn left HDG219°,

to TOMOH on course 174°.

341649.6N 1350020.3E

RWY24L: Climb on HDG238° at or above 500FT, turn right direct to BB440, turn left HDG219°,

to TOMOH on course 174°.

Note RWY24L: No turn before DER.

## RJBB / KANSAI INTL

RNAV SID

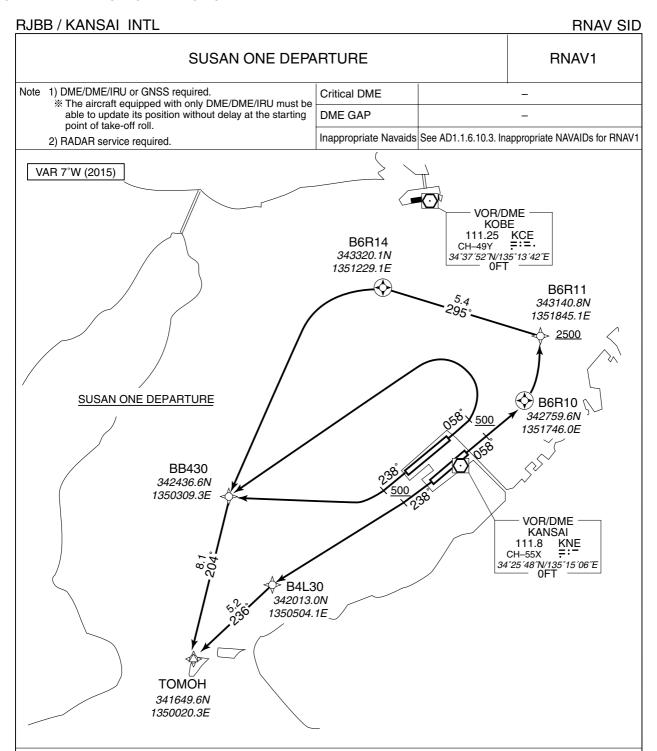
## KITAN ONE DEPARTURE

#### RWY24R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	238 (230.9)	-7.4	_	_	+500	-	_	RNAV1
002	DF	BB440	Υ	_	-7.4	_	R	_	_	_	RNAV1
003	VI	_	_	219 (211.8)	-7.4	_	L	_	_	_	RNAV1
004	CF	томон	_	174 (166.8)	-7.4	5.5	_	_	_	_	RNAV1

## RWY24L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	BB440	Υ	_	-7.4	_	R	_	_	_	RNAV1
003	VI	_	-	219 (211.8)	-7.4	_	L	_	-	_	RNAV1
004	CF	томон	_	174 (166.8)	-7.4	5.5	_	_	_	_	RNAV1



## SUSAN ONE DEPARTURE

RWY06R: Climb on HDG058° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above

2500FT, to B6R14, turn left direct to BB430, to TOMOH.

RWY06L: Climb on HDG058° at or above 500FT, turn left direct to BB430, to TOMOH.

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to BB430, to TOMOH.

RWY24L: Climb on HDG238° at or above 500FT, direct to B4L30, to TOMOH.

RJBB / KANSAI INTL RNAV SID

## SUSAN ONE DEPARTURE

## RWY06R

Serial Number	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	_	_	058 (050.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B6R10	Υ	-	-7.4	_	_	-	_	_	RNAV1
003	DF	B6R11	_	_	-7.4	_	L	+2500	_	-	RNAV1
004	TF	B6R14	Υ	295 (287.8)	-7.4	5.4	_	_	_	_	RNAV1
005	DF	BB430	_	_	-7.4	_	L	_	_	_	RNAV1
006	TF	томон	_	204 (196.6)	-7.4	8.1	_	_	_	_	RNAV1

## RWY06L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	
001	VA	_	_	058 (050.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	BB430	_	_	-7.4	_	L	_	_	_	RNAV1
003	TF	томон	_	204 (196.6)	-7.4	8.1	_	_	_	_	RNAV1

## RJBB / KANSAI INTL

**RNAV SID** 

## RWY24R

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	$^{\circ}M(^{\circ}T)$	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	VA	_	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	BB430	_	1	-7.4	_	R	1	_	_	RNAV1
003	TF	ТОМОН	_	204 (196.6)	-7.4	8.1	_	_	_	_	RNAV1

### RWY24L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B4L30	1	-	-7.4	_	1	_	_	_	RNAV1
003	TF	томон	_	236 (229.1)	-7.4	5.2	_	-	_	_	RNAV1

#### RJBB / KANSAI INTL **RNAV TRANSITION** TONDA TRANSITION / YOSAK TRANSITION RNAV1 Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 VAR 7° W(2016) TOMOH 341649.6N 1350020.3E TONDA TRANSITION œ **ODORI** 340013.2N 3 1343011.8E 13000 6000 < YOSAK 334704.7N **GOBŎH** 340638.4E 335436.4N FL160 1350622.2E **VORTAC KUSHIMOTO** 244°/26.0 112.9 KEC **TONDA** KOCHI(KRE) CH-76X 334343.8N YOSAK TRANSITION 333230.4N 33°26′52″N/135°47′40″E 1352239.3E 200FT 1334048.6E VOR/DME KOCHI 113.7 KRE CH-84X :----KUSHIMOTO(KEC) 33°32′30″N/133°40′49″E 100FT 332651.9N 1354740.2E **TONDA TRANSITION** From TOMOH, to GOBOH at or above 6000FT, to TONDA, to KEC. YME: TOMOH - 20.0NM to GOBOH GBD: 10.0NM to GOBOH - 4.0NM to GOBOH CUE: 3.0NM to GOBOH - 16.0NM to TONDA Critical DME 14.0NM to TONDA - 11.0NM to TONDA KNE: 17.0NM to KEC - 11.0NM to KEC XMT: 7.0NM to KEC - KEC 16.0NM to TONDA - 14.0NM to TONDA DME GAP 11.0NM to TONDA - 10.0NM to TONDA Serial Fly Path Waypoint Course Magnetic Distance Turn Altitude Speed Vertical Navigation Direction Specification Number Descriptor Identifier Over °M(°T) Variation (NM) (FT) (KIAS) Angle 001 IF **TOMOH** -7.5RNAV1 175 (167.3) 002 +6000 TF **GOBOH** -7.5 22.8 RNAV1 136 003 TF RNAV1 **TONDA** -7.5 17.4 (128.7)136 (128.9) 004

-7.5

26.8

**KEC** 

TF

RNAV1

## RJBB / KANSAI INTL

## **RNAV TRANSITION**

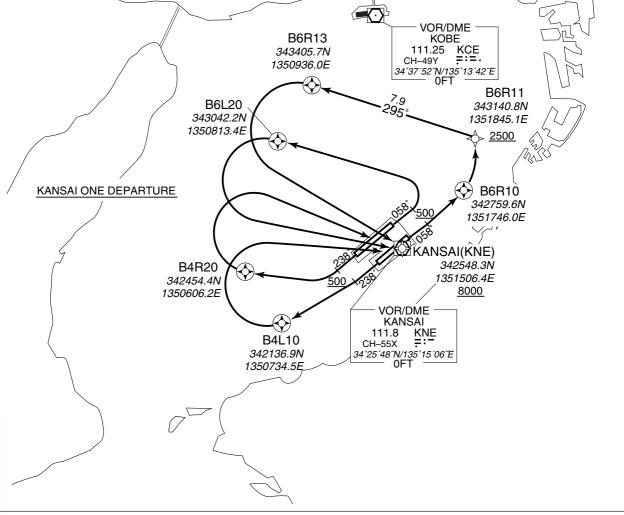
## YOSAK TRANSITION

From TOMOH, to ODORI at or above 13000FT, to YOSAK at or above FL160, to KRE.

Critical DME	-
DME GAP	-

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	томон	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	ODORI	_	244 (236.5)	-7.5	30.0	_	+13000	_	_	RNAV1
003	TF	YOSAK	_	244 (236.2)	-7.5	23.6	-	+FL160	_	_	RNAV1
004	TF	KRE	_	244 (236.0)	-7.5	26.0	_	_	_	_	RNAV1

RJBB / KANSAI INTL **RNAV SID** KANSAI ONE DEPARTURE RNAV1 DME/DME/IRU or GNSS required. Critical DME \* The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting DME GAP point of take-off roll. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 2) RADAR service required. VAR 7°W (2015) VOR/DME B6R13 **KOBE** 



#### KANSAI ONE DEPARTURE

RWY06R: Climb on HDG058° at or above 500FT, direct to <u>B6R10</u>, turn left direct to B6R11 at or above 2500FT, to B6R13, turn left direct to KNE at or above 8000FT.

RWY06L: Climb on HDG058° at or above 500FT, turn left direct to <u>B6L20</u>, turn left direct to KNE at or above 8000FT.

RWY24R : Climb on HDG238° at or above 500FT, turn right direct to <u>B4R20</u>, turn right direct to KNE at or above 8000FT.

RWY24L: Climb on HDG238° at or above 500FT, direct to <u>B4L10</u>, turn right direct to KNE at or above 8000FT.

RJBB / KANSAI INTL RNAV SID

## KANSAI ONE DEPARTURE

## RWY06R

Serial Number	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	_	_	058 (050.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B6R10	Υ	_	-7.4	_	-	_	-	_	RNAV1
003	DF	B6R11	_	_	-7.4	_	L	+2500	_	_	RNAV1
004	TF	B6R13	Υ	295 (287.8)	-7.4	7.9	_	-		_	RNAV1
005	DF	KNE	_	_	-7.4	_	L	+8000	_	_	RNAV1

## RWY06L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	058 (050.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B6L20	Υ	_	-7.4	_	L	-	_	_	RNAV1
003	DF	KNE	_	_	-7.4	_	L	+8000	_	_	RNAV1

## RJBB / KANSAI INTL

**RNAV SID** 

## RWY24R

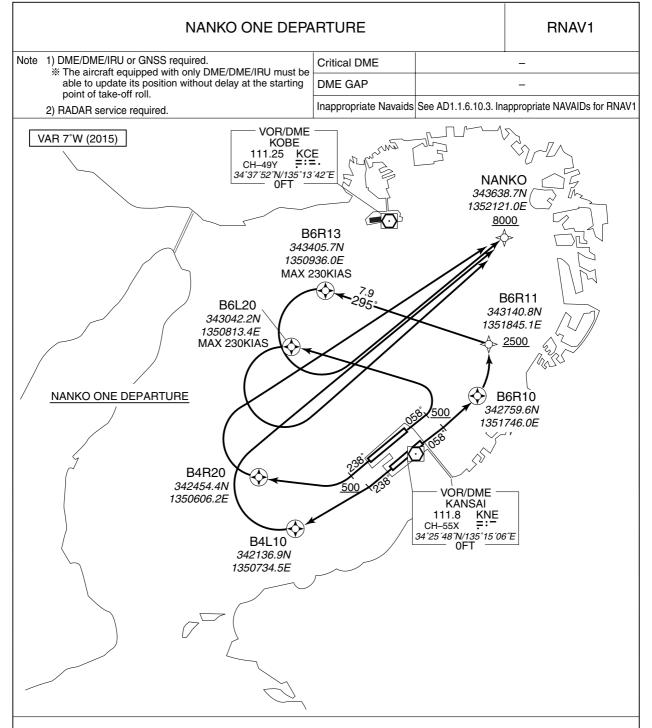
Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	VA	_	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B4R20	Υ	_	-7.4	_	R	_	_	_	RNAV1
003	DF	KNE	_	_	-7.4	_	R	+8000	_	_	RNAV1

#### RWY24L

Serial Number	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	_	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B4L10	Υ	-	-7.4	_	-	_	_	_	RNAV1
003	DF	KNE	_	_	-7.4	_	R	+8000	_	_	RNAV1

#### RJBB / KANSAI INTL **RNAV TRANSITION** BAMBI TRANSITION / SHTLE TRANSITION / UENOH TRANSITION RNAV1 1) DME/DME/IRU or GNSS required. 2) RADAR service required. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 VAR 7° W(2016) **GUJYO** 352150.5N ♥1363438.5E **UENOH TRANSITION** W **UENOH** 345008.7N 1361333.7F SHTLE 344951.0N 1365653.8E **BAMBI TRANSITION** 21.8 SHTLE TRANSITION YAGYU 086 NARAH 343239.3N VOR/DME 342958.8N 1355738.1E KANSAI(KNE) 1354102.9E KANSAI 111.8 KNE 342548.3N **=:**-1351506.4E CH-55X 34°25′48″N/135°15′06″E OFT **BAMBI TRANSITION** Critical DME From KNE, to NARAH. **DME GAP** Path Course Magnetic Distance Altitude Speed Vertical Navigation Serial Waypoint Fly Turn Angle | Specification (NM) Number Descriptor Identifier Over Variation Direction (KIAS) °M(°T) (FT) -7.5 IF RNAV1 001 **KNE** 086 (078.8 -7.5 RNAV1 TF **NARAH** 21.8 002 SHTLE TRANSITION Critical DME From KNE, to NARAH, to YAGYU, to SHTLE. DME GAP Path Waypoint Course | Magnetic | Distance | Turn Altitude | Speed | Vertical | Navigation Number Descriptor Identifier °M(°T) Variation (NM) Direction (KIAS) Angle Specification Over (FT) IF -7.5 RNAV1 001 **KNE** 086 (078.8) 002 TF **NARAH** -7.5 21.8 RNAV1 086 (078.8) TF YAGYU -7.5 RNAV1 003 13.9 TF 078 (070.3) -7.5 RNAV1 004 SHTLE 51.7 **UENOH TRANSITION** KCC: 32.0NM to GUJYO - 24.0NM to GUJYO Critical DME From KNE, to NARAH, to UENOH, to GUJYO. DME GAP Serial Path Waypoint Fly Course Magnetic Distance Turn Altitude Speed Vertical Navigation Number Descriptor (KIAS) | Angle | Specification Identifier Over °M(°T) Variation (NM) Direction (FT) 001 IF -7.5 RNAV1 **KNE** 086 (078.8) 002 TF **NARAH** -7.5 21.8 RNAV1 003 TF **UENOH** -7.5 33.5 RNAV1 TF 036 -7.5 004 **GUJYO** 36.1 RNAV1

RJBB / KANSAI INTL RNAV SID



#### NANKO ONE DEPARTURE

RWY06R: Climb on HDG058° at or above 500FT, direct to <u>B6R10</u>, turn left direct to B6R11 at or above 2500FT, to B6R13, turn left direct to NANKO at or above 8000FT.

RWY06L: Climb on HDG058° at or above 500FT, turn left direct to <u>B6L20</u>, turn left direct to NANKO at or above 8000FT.

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to <u>B4R20</u>, turn right direct to NANKO at or above 8000FT.

RWY24L: Climb on HDG238° at or above 500FT, direct to B4L10, turn right direct to NANKO at or above

8000FT.

RJBB / KANSAI INTL RNAV SID

## NANKO ONE DEPARTURE

## RWY06R

Serial Number	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	_	_	058 (050.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B6R10	Υ	_	-7.4	_	_	_	_	_	RNAV1
003	DF	B6R11	_	-	-7.4	_	L	+2500	_	_	RNAV1
004	TF	B6R13	Υ	295 (287.8)	-7.4	7.9	_	_	-230	_	RNAV1
005	DF	NANKO	_	1	-7.4	_	L	+8000	_	_	RNAV1

## RWY06L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	058 (050.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B6L20	Υ	_	-7.4	_	L	_	-230	_	RNAV1
003	DF	NANKO	_	_	-7.4	_	L	+8000	_	_	RNAV1

RJBB / KANSAI INTL RNAV SID

## RWY24R

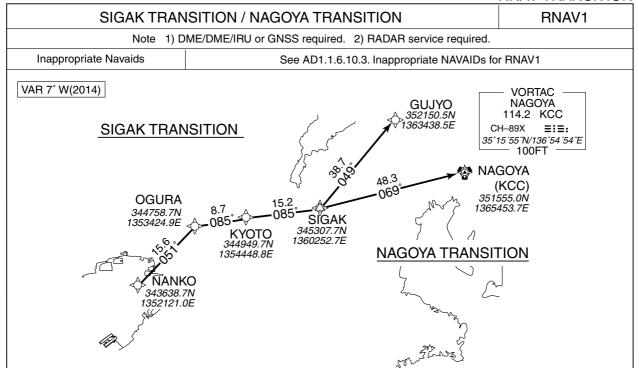
Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
	Descriptor	,,	Over	°M(°T)	Variation		Direction		(KIAS)	Angle	ı
001	VA	_	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B4R20	Υ	_	-7.4	_	R	_	_	_	RNAV1
003	DF	NANKO	_	_	-7.4	_	R	+8000	_	_	RNAV1

### RWY24L

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	VA	_	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B4L10	Υ	_	-7.4	_	_	-	_	_	RNAV1
003	DF	NANKO	_	_	-7.4	_	R	+8000	_	_	RNAV1

#### RJBB / KANSAI INTL

#### **RNAV TRANSITION**



### SIGAK TRANSITION

From NANKO, to OGURA, to KYOTO, to SIGAK, to GUJYO.

Critical DME	ITE: 8.0NM to SIGAK - 5.0NM to SIGAK SIGAK - 30.0NM to GUJYO YME: 33.0NM to GUJYO - 30.0NM to GUJYO XMT: 20.0NM to GUJYO - 13.0NM to GUJYO
DME GAP	-

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction				Navigation Specification
001	IF	NANKO	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	OGURA	_	051 (043.4)	-7.2	15.6	_	_	_	_	RNAV1
003	TF	KYOTO	_	085 (077.7)	-7.2	8.7	_	_	_	_	RNAV1
004	TF	SIGAK	_	085 (077.4)	-7.2	15.2	_	_	_	_	RNAV1
005	TF	GUJYO	_	049 (042.0)	-7.2	38.7	_	_	_	_	RNAV1

#### NAGOYA TRANSITION

From NANKO, to OGURA, to KYOTO, to SIGAK, to KCC.

Critical DME	ITE: 8.0NM to SIGAK - 5.0NM to SIGAK
DME GAP	_

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction				Navigation Specification
001	IF	NANKO	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	OGURA	_	051 (043.4)	-7.2	15.6	ı	_	_	_	RNAV1
003	TF	KYOTO	_	085 (077.7)	-7.2	8.7	_	_	_	_	RNAV1
004	TF	SIGAK	_	085 (077.4)	-7.2	15.2		_	_	_	RNAV1
005	TF	KCC	_	069 (061.6)	-7.2	48.3	1	_	_	_	RNAV1

VOR/DME

**KANSAI** 

34°25′48″N/<u>13</u>5°15′06″E

111.8

CH-55X

KNE

#### STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL **RNAV SID** HELEN ONE DEPARTURE RNAV1 1) DME/DME/IRU or GNSS required. Critical DME \* The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting DME GAP point of take-off roll. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 2) RADAR service required. VAR 7°W (2015) HELEN ONE DEPARTURE **MAIKO** 343639.7N VOR/DME <u>8000</u> 1345949.1E KOBE (for RWY24R/L) 111.25 KCE CH-49Y 34°37′52″N/135°13′42″E 10.3 **HELEN** 0FT 343448.9N 295 B6R11 343140.8N 1350651.8E 1351845.1E <u>2500</u> B6R10 342759.6N 1351746.0E BB430 342436.6N

#### HELEN ONE DEPARTURE

RWY06R: Climb on HDG058° at or above 500FT, direct to <u>B6R10</u>, turn left direct to B6R11 at or above

B4L10

342136.9N

1350734.5E

2500FT, to HELEN, to MAIKO.

RWY06L: Climb on HDG058° at or above 500FT, turn left direct to HELEN, to MAIKO.

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to BB430, to HELEN at or above

8000FT, to MAIKO.

RWY24L: Climb on HDG238° at or above 500FT, direct to B4L10, turn right direct to BB430, to HELEN

at or above 8000FT, to MAIKO.

1350309.3E

MAX210KIAS

## RJBB / KANSAI INTL RNAV SID

## HELEN ONE DEPARTURE

## RWY06R

Serial Number	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	_	_	058 (050.9)	-7.4	_	_	+500	-	_	RNAV1
002	DF	B6R10	Υ	_	-7.4	_	_	_	_	_	RNAV1
003	DF	B6R11	_	-	-7.4	_	L	+2500	_	-	RNAV1
004	TF	HELEN	_	295 (287.8)	-7.4	10.3	_	_	_	_	RNAV1
005	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	-	_	_	RNAV1

#### RWY06L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	
001	VA	_	_	058 (050.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	HELEN	_	_	-7.4	_	L	-	_	_	RNAV1
003	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	_	_	_	RNAV1

## RJBB / KANSAI INTL RNAV SID

## RWY24R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	BB430	_	_	-7.4	_	R	ı	-210	_	RNAV1
003	TF	HELEN	_	024 (016.6)	-7.4	10.7	_	+8000	_	_	RNAV1
004	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	_	_	_	RNAV1

### RWY24L

Serial Number	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	-	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B4L10	Υ	_	-7.4	_	_	-	_	_	RNAV1
003	DF	BB430	-	_	-7.4	_	R	ı	-210	_	RNAV1
004	TF	HELEN	_	024 (016.6)	-7.4	10.7	_	+8000	_	-	RNAV1
005	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	_	_	_	RNAV1

RJBB / KANSAI INTL **RNAV SID** IWAYA ONE DEPARTURE RNAV1 Note 1) DME/DME/IRU or GNSS required. Critical DME \*\* The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting DME GAP point of take-off roll. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 2) RADAR service required. VAR 7°W (2015) **MAIKO** 343639.7N VOR/DME **HELEN** 1345949.1E **KOBE** 343448.9N 111.25 1350651.8E CH-49Y 8000 34°37′52″N/135°13′42″E **IWAYA ONE DEPARTURE** BB430 342436.6N 1350309.3E VOR/DME KANSAI 111.8 CH-55X 34°25′48″N/135°15′06″E 0FT

#### IWAYA ONE DEPARTURE

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to BB430, to HELEN at or above

8000FT, to MAIKO.

RWY24L: Climb on HDG238° at or above 500FT, turn right direct to BB430, to HELEN at or above

8000FT, to MAIKO.

Note RWY24L: No turn before DER.

RJBB / KANSAI INTL RNAV SID

### IWAYA ONE DEPARTURE

### RWY24R

Serial Number	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	_	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	BB430	_	_	-7.4	_	R	_	_	_	RNAV1
003	TF	HELEN	_	024 (016.6)	-7.4	10.7	_	+8000	_	_	RNAV1
004	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	_	_	_	RNAV1

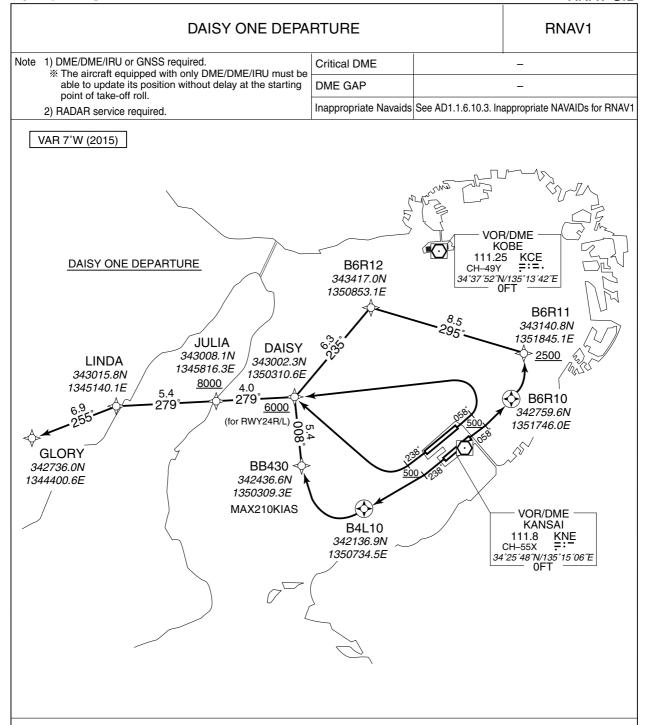
### RWY24L

Serial Number	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	_	_	238 (230.9)	-7.4	_	_	+500	-	_	RNAV1
002	DF	BB430	_	_	-7.4	_	R	_	1	_	RNAV1
003	TF	HELEN	_	024 (016.6)	-7.4	10.7	_	+8000	-	_	RNAV1
004	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	-	_	_	RNAV1

RJBB /	RJBB / KANSAL INTL RNAV TRANSITION SHION TRANSITION / SOUJA TRANSITION / WASYU TRANSITION / HABAR TRANSITION RNAV1											
SHION	TRANSITIO	N / SOUJA <sup>-</sup>	TRANS	SITION / V	VASYU TRA	ANSITION	I / HABAR	TRANSI1	TION	R	NAV1	
		Note	1) DME	/DME/IRU	or GNSS req	uired. 2) F	RADAR serv	ice required	d.			
Inap	propriate Na	avaids			See AD	1.1.6.10.3	. Inapprop	riate NAVA	AIDs for F	RNAV1		
VAR 7°	W(2009)											
				C				<b>&gt;</b> .	MAIKO	)		
	SOUJ <i>i</i> 343738.6N		OUJA	FRANSITI	<u>ÔN</u> SHI	ON TRANS	SITION	DE	343639 \1345949	9.7N		
	1334422.5E			الخبر	<u>01111</u>		WEN	DY .	1345948	9.1E		
WA	SYU TRANS	SITION	307	1	$\sim$		343209. 1345030.				Й	
		5 44.6	بوت کر		_ }	28 - 26	4 4				57	
WASYU		₹281≈	)						)	/	<b>3</b>	
342817.51 1332301.11			35.0 <b>267</b> —	700	<sup>∀</sup> SHION 342542.1	1 <i>N</i>	<i>بر</i>	(		<b>\\$</b>		
	$\Diamond$	C HADAD	TDAN		√_1341657.4			4			/	
HABAR 341909.7N  HABAR TRANSITION												
1333	3519.6E						1					
SHION	TRANSITI	<u>ON</u>					Criti	cal DME			_	
From MAIKO, to WENDY, to SHION.  DME GAP  —												
Serial	Path	Waypoint Identifier	Fly	Course	Magnetic Variation			Altitude		Vertical		
001	Descriptor IF	MAIKO	Over	°M(°T)	-7.2	(NM)	Direction	(FT)	(KIAS)	Angle	Specification RNAV1	
001	TF	WENDY	_	247	-7.2 -7.2	8.9	_	_	_	_	RNAV1	
002	TF	SHION	_	(239.6) 264 (257.0)	-7.2	28.4	_		_	_	RNAV1	
	TRANSITI			(257.0)	1 7							
		WENDY, to	SHIO	N, to SO	UJA.			cal DME IE GAP			_	
Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude		Vertical	Navigation	
	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification	
001	IF	MAIKO	_	- 247	-7.2	_	_	_	_	_	RNAV1	
002	TF	WENDY	_	247 (239.6)	-7.2	8.9	_		_	_	RNAV1	
003	TF	SHION	_	264 (257.0) 301	-7.2	28.4	_	<u> </u>			RNAV1	
004	TF	SOUJA		(294.1)	-7.2	29.4	_				RNAV1	
	TRANSIT	<u>ION</u> WENDY, to	S LIIO	NI +a \A/A	CVII			cal DME			_	
Serial	Path	Waypoint	Fly	Course	Magnetic	Dietopoo		IE GAP	Spood	Vortical	Navigation	
	Descriptor		Over		Variation	(NM)	Direction	(FT)	(KIAS)		Specification	
001	IF	MAIKO	_	_	-7.2	_	_	_	_	_	RNAV1	
002	TF	WENDY	_	247 (239.6)	-7.2	8.9	_	_	_	_	RNAV1	
003	TF	SHION	_	264 (257.0)	-7.2	28.4	_	_	_	_	RNAV1	
004	TF	WASYU	-	281 (273.6)	-7.2	44.6	_	_	-	-	RNAV1	
HABAR	TRANSIT	ION					Criti					
From MAIKO, to WENDY, to SHION, to HABAR.  Critical DME —  DME GAP —												
Serial	Path	Waypoint	Fly	Course	Magnetic		Turn	Altitude			Navigation	
	Descriptor	Identifier	Over		Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification	
001	IF	MAIKO	_	- 247	-7.2	_	_		_	_	RNAV1	
002	TF	WENDY		247 (239.6)	-7.2	8.9	<u> </u>		_		RNAV1	
003	TF	SHION		264 (257.0) 267	-7.2	28.4	_				RNAV1	
004	TF	HABAR		267 (259.4)	-7.2	35.0	_		_	_	RNAV1	

#### RJBB / KANSAI INTL **RNAV TRANSITION** CHIZU TRANSITION RNAV1 KNE: 17.1NM to YME - 14.1NM to YME Note 1) DME/DME/IRU or GNSS required. Critical DME YME: 17.1NM to YME - 14.1NM to YME 2) RADAR service required. DME GAP Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1. VAR 8° W(2019) MIYAZU(YME) 352850.5N 1350813.3E VOR/DME MIYAZU 112.6 YME CH-73X 35°28′50″N/135°08′13″E 2400FT **CHIZU** 350146.2N 1343025.4E CHIZU TRANSITION AYAYA 344519.1N 1343217.7E CHANGE: VAR. AYAYA established. Course FM MAIKO to KAWAT 21.8 MAÏKO KAWAT 343639.7N 343419.4N 1345949.1E 1343332.3E 8000 **CHIZU TRANSITION** From MAIKO, to KAWAT at or above 8000FT, to AYAYA, to CHIZU, to YME. Fly Vertical Navigation Serial Path Waypoint Course Magnetic Distance Turn Altitude Speed Number Descriptor Identifier Over °M(°T) Variation (NM) Direction (FT) (KIAS) Angle Specification 001 IF **MAIKO** -7.7 RNAV1 272 (264.0) 002 TF **KAWAT** -7.7 21.8 +8000 RNAV1 002 (354.7) 003 **AYAYA** RNAV1 TF -7.7 11.0 002 (354.7) 004 16.5 TF **CHIZU** -7.7 RNAV1 056 (048.6) 005 TF 41.1 RNAV1 YME -7.7

RJBB / KANSAI INTL RNAV SID



#### DAISY ONE DEPARTURE

RWY06R: Climb on HDG058° at or above 500FT, direct to <u>B6R10</u>, turn left direct to B6R11 at or above 2500FT, to B6R12, to DAISY, to JULIA at or above 8000FT, to LINDA, to GLORY.

 $RWY06L: \ Climb \ on \ HDG058° \ at \ or \ above \ 500FT, \ turn \ left \ direct \ to \ DAISY, \ to \ JULIA \ at \ or \ above \ 8000FT,$ 

to LINDA, to GLORY.

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to DAISY at or above 6000FT, to JULIA at or above 8000FT, to LINDA, to GLORY.

to Jolia at of above 6000F1, to Linda, to Glont.

RWY24L: Climb on HDG238° at or above 500FT, direct to B4L10, turn right direct to BB430, to DAISY

at or above 6000FT, to JULIA at or above 8000FT, to LINDA, to GLORY.

# RJBB / KANSAI INTL

**RNAV SID** 

### DAISY ONE DEPARTURE

#### RWY06R

Serial Number	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	_	_	058 (050.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B6R10	Υ	-	-7.4	_	_	-	_	_	RNAV1
003	DF	B6R11	_	_	-7.4	_	L	+2500	_	_	RNAV1
004	TF	B6R12	_	295 (287.8)	-7.4	8.5	_	_	_	_	RNAV1
005	TF	DAISY	_	235 (228.0)	-7.4	6.3	_	_	_	_	RNAV1
006	TF	JULIA	_	279 (271.4)	-7.4	4.0	_	+8000	_	_	RNAV1
007	TF	LINDA	_	279 (271.4)	-7.4	5.4	_	_	_	_	RNAV1
008	TF	GLORY	_	255 (247.2)	-7.4	6.9	_	-	_	_	RNAV1

### RWY06L

Serial Number	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	_	_	058 (050.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	DAISY	_	-	-7.4	_	L	_	_	_	RNAV1
003	TF	JULIA	_	279 (271.4)	-7.4	4.0	_	+8000	_	_	RNAV1
004	TF	LINDA	_	279 (271.4)	-7.4	5.4	_	_	_	_	RNAV1
005	TF	GLORY	_	255 (247.2)	-7.4	6.9	_	_	_	_	RNAV1

# RJBB / KANSAI INTL RNAV SID

### RWY24R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	238 (230.9)	-7.4	_	1	+500	Ī	_	RNAV1
002	DF	DAISY	_	_	-7.4	_	R	+6000	_	_	RNAV1
003	TF	JULIA	_	279 (271.4)	-7.4	4.0	-	+8000	_	-	RNAV1
004	TF	LINDA	_	279 (271.4)	-7.4	5.4	1	1	_	_	RNAV1
005	TF	GLORY	_	255 (247.2)	-7.4	6.9	1	ı	-	_	RNAV1

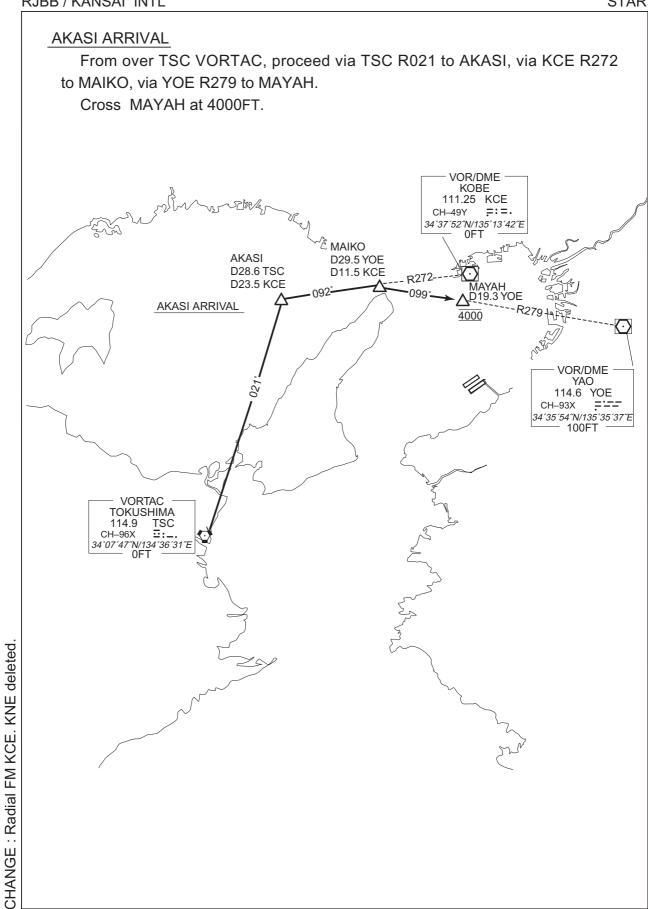
### RWY24L

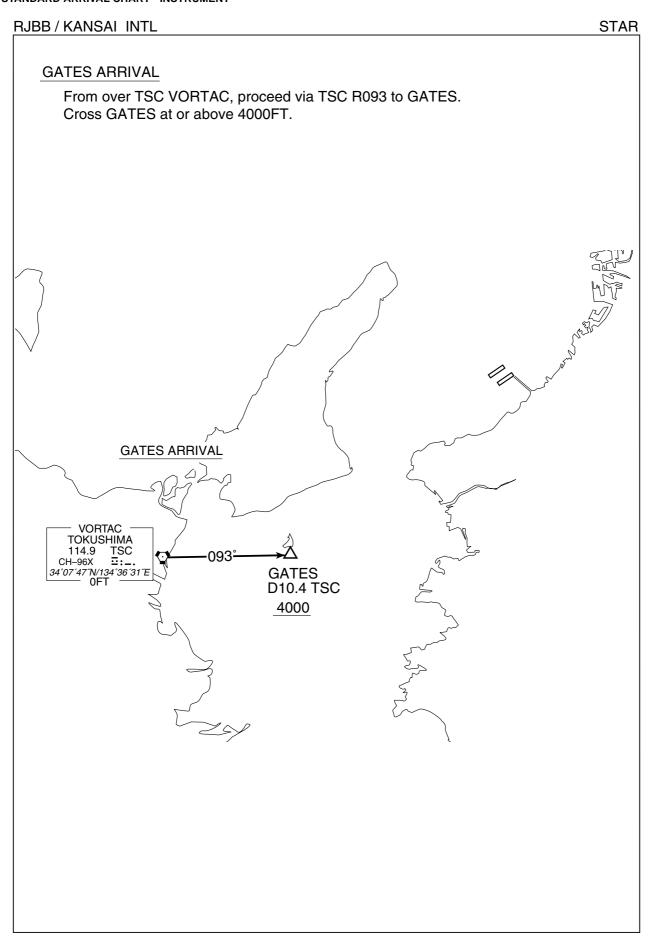
Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	VA	_	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B4L10	Υ	_	-7.4	_	_	_	_	_	RNAV1
003	DF	BB430	_	_	-7.4	_	R	_	-210	_	RNAV1
004	TF	DAISY	_	008 (000.2)	-7.4	5.4	_	+6000	_	_	RNAV1
005	TF	JULIA	_	279 (271.4)	-7.4	4.0	_	+8000	_	_	RNAV1
006	TF	LINDA	_	279 (271.4)	-7.4	5.4	_	_	_	_	RNAV1
007	TF	GLORY	_	255 (247.2)	-7.4	6.9	_	_	_	_	RNAV1

# RJBB / KANSAI INTL **RNAV TRANSITION HIBIS TRANSITION** RNAV1 Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 VAR 7° W(2009) **GLORY** 342736.0N 1344400.6E HIBIS 341454.8N 1340730.0E HIBIS TRANSITION **HIBIS TRANSITION** Critical DME From GLORY, to HIBIS. DME GAP

Serial Number	Path Descriptor	Waypoint Identifier	, ,		Magnetic Variation		Turn Direction		•		Navigation Specification
001	IF	GLORY	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	HIBIS	_	254 (247.3)	-7.2	32.7	_	_	_	_	RNAV1

RJBB / KANSAI INTL **STAR** 





RJBB / KANSAI INTL STAR

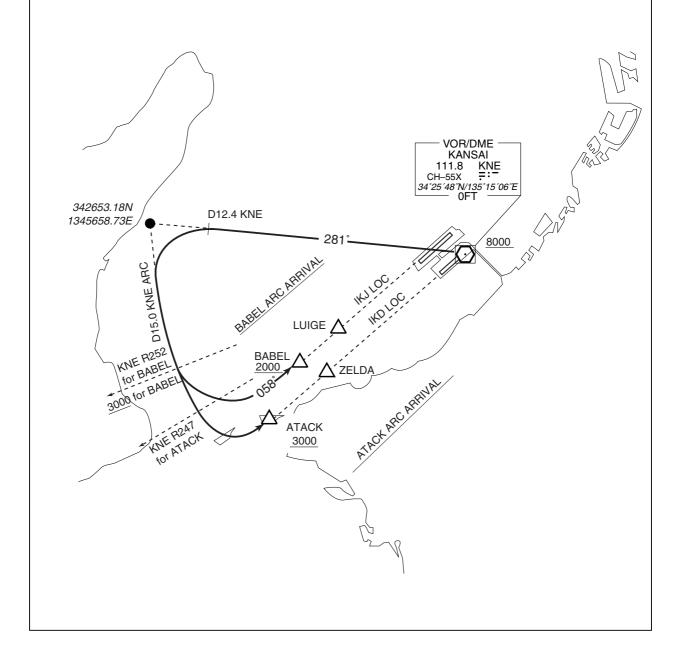
# **ATACK ARC ARRIVAL**

From over KNE VOR/DME, proceed via KNE R281, turn left via KNE 15.0DME counterclockwise ARC, turn left to intercept and proceed via IKD-LOC to ATACK. Cross KNE VOR/DME at or above 8000FT, cross ATACK at or above 3000FT.

### BABEL ARC ARRIVAL

From over KNE VOR/DME, proceed via KNE R281, turn left via KNE 15.0DME counterclockwise ARC, turn left to intercept and proceed via IKJ-LOC to BABEL.

Cross KNE VOR/DME at or above 8000FT, cross KNE R252 at or above 3000FT, cross BABEL at or above 2000FT.

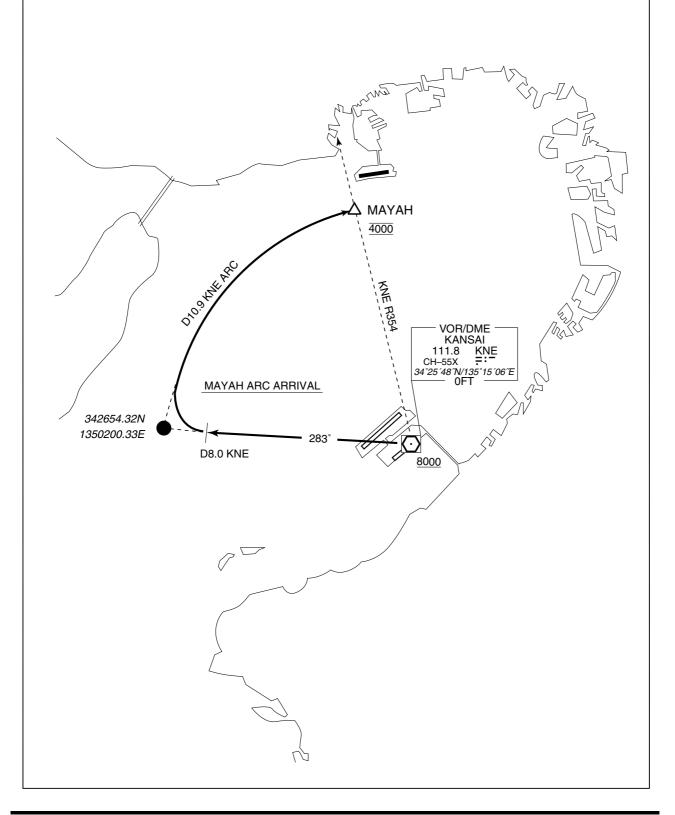


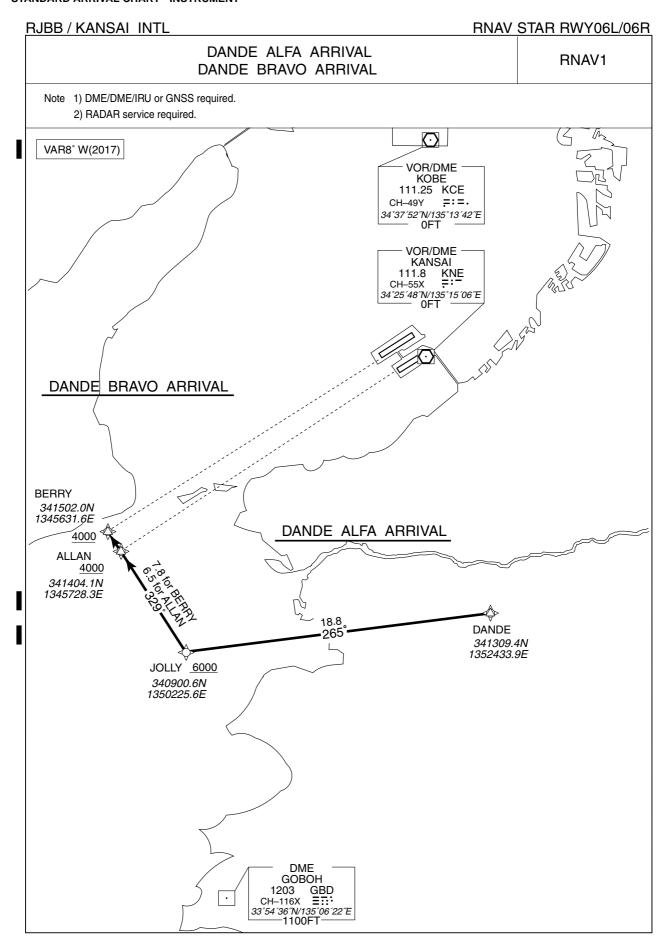
RJBB / KANSAI INTL STAR

### MAYAH ARC ARRIVAL

From over KNE VOR/DME, proceed via KNE R283, turn right via KNE 10.9DME clockwise ARC to MAYAH.

Cross KNE VOR/DME at or above 8000FT, cross MAYAH at 4000FT.





### RJBB / KANSAI INTL

### RNAV STAR RWY06L/06R

# DANDE ALFA ARRIVAL

From DANDE, to JOLLY at or above 6000FT, to ALLAN at or above 4000FT.

Critical DME	OKT: 16.0NM to JOLLY - 14.0NM to JOLLY TZT: 14.0NM to JOLLY - 13.0NM to JOLLY 4.0NM to JOLLY - ALLAN GBD: DANDE - ALLAN
DME GAP	_
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over		Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	DANDE	_	_	<b>I</b> -7.6	_	-	_	-	_	RNAV1
002	TF	JOLLY	_	■ 265 (257.3)	<b>I</b> -7.6	18.8	_	+6000	_	_	RNAV1
003	TF	ALLAN	_	■ 329 (321.0)	<b>I</b> -7.6	6.5	_	+4000	_	_	RNAV1

### DANDE BRAVO ARRIVAL

From DANDE, to JOLLY at or above 6000FT, to BERRY at or above 4000FT.

Critical DME	OKT: 16.0NM to JOLLY - 14.0NM to JOLLY TZT: 14.0NM to JOLLY - 13.0NM to JOLLY 4.0NM to JOLLY - BERRY GBD: DANDE - BERRY
DME GAP	<del>-</del>
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Seria	I Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Numb	er Descriptor	Identifier	Over	[°M(°T)]	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	IF	DANDE	_	_	<b>■</b> -7.6	_	_	-	_	_	RNAV1
002	TF	JOLLY	_	■ 265 (257.3)	<b>I</b> -7.6	18.8	_	+6000	_	_	RNAV1
003	TF	BERRY	_	■ 329 (321.0)	<b>I</b> -7.6	7.8	_	+4000	_	_	RNAV1

#### RNAV STAR RWY24L/24R RJBB / KANSAI INTL DANDE CHARLIE ARRIVAL RNAV1 1) DME/DME/IRU or GNSS required. 2) RADAR service required. VOR/DME VAR 7° W(2016) KOBE МАҮАҢ 111.25 KCE 343623.7N CH-49Y =:=. 1351211.0E 34°37′52″N/135°13′42″E 4000 0FT $\odot$ LILAC VOR/DME 342710.7N YAO 1345842.0E 114.6 YOE CH-93X 34°35′54″N/135°35′37″E 100FT 11.7 058° **AWAJI** VOR/DME 341613.1N KANSAI 1344246.6E KNE 111.8 7000 CH-55X **=:** -34°25′48″N/135°15′06″E DME AWAJI 1190 AJD CH-103X ≒= 34°16′13″N/134°42′47″E 900FT

DANDE CHARLIE ARRIVAL

From DANDE, to JOLLY at or above 8000FT, to GATES, to AWAJI at or above 7000FT, to LILAC, to MAYAH at 4000FT.

JOLLY 8000

340900.6N

1350225.6E

11.1

DANDE CHARLIE ARRIVAL

GATES

**VORTAC** 

**TOKUSHIMA** 

34°07′47″N/134°36′31″E OFT

114.9 CH-96X TSC □:\_ 340821.4N

1344902.6E

to wir tir tir at 1000i	1.						
Critical DME	OKT: 16.0NM to JOLLY - 14.0NM to JOLLY	GBD: DANDE - 8.0NM to GATES					
	TZT: 14.0NM to JOLLY - 13.0NM to JOLLY	7.0NM to GATES - GATES					
	4.0NM to JOLLY - 8.0NM to GATES	8.0NM to AWAJI - MAYAH					
	7.0NM to GATES - GATES						
	8.0NM to AWAJI - 11.0NM to LILAC						
DME GAP	8.0NM to GATES - 7.0NM to GATES	GATES - 8.0NM to AWAJI					
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1						

DANDE

DME GOBOH

1203 GBD CH-116X =::: 33°54'36"N/135'06'22"E 1100FT

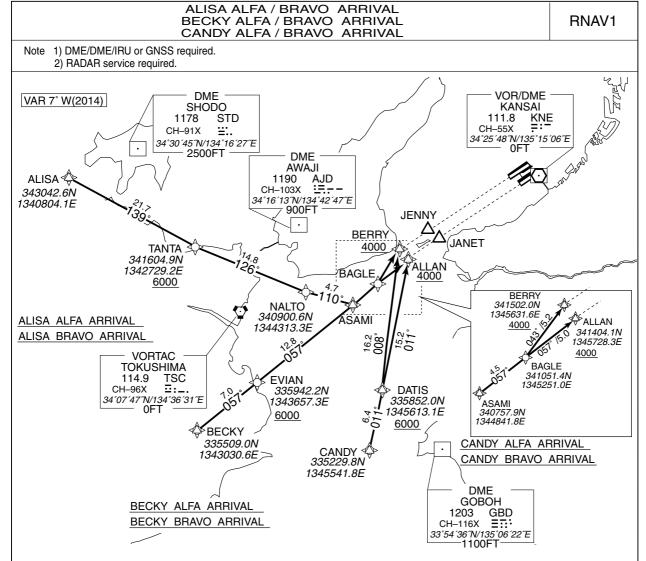
341309.4N

1352433.9E

Serial Number	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	DANDE	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	JOLLY	_	265 (257.3)	-7.5	18.8	_	+8000	_	_	RNAV1
003	TF	GATES	_	274 (266.7)	-7.5	11.1	_	_	_	_	RNAV1
004	TF	AWAJI	_	334 (326.6)	-7.5	9.4	_	+7000	_	_	RNAV1
005	TF	LILAC	_	058 (050.1)	-7.5	17.1	_	_	_	_	RNAV1
006	TF	MAYAH	_	058 (050.3)	-7.5	14.4	_	4000	_	_	RNAV1

#### RJBB / KANSAI INTL

#### RNAV STAR RWY06L/06R



### ALISA ALFA ARRIVAL

From ALISA, to TANTA at or above 6000FT, to NALTO, to ASAMI, to BAGLE, to ALLAN at or above 4000FT.

Critical DME	AJD: 12.0NM to NALTO - NALTO KNE: 1.7NM to ASAMI - 4.0NM to ALLAN
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	ALISA	_	_	-7.2	_	-	_	_	_	RNAV1
002	TF	TANTA	_	139 (132.3)	-7.2	21.7	-	+6000	_	_	RNAV1
003	TF	NALTO	_	126 (118.4)	-7.2	14.8	1	_	1	_	RNAV1
004	TF	ASAMI	_	110 (103.0)	-7.2	4.7	1	_	-	_	RNAV1
005	TF	BAGLE	_	057 (049.9)	-7.2	4.5	_	_		_	RNAV1
006	TF	ALLAN	_	057 (049.9)	-7.2	5.0	_	+4000	_	_	RNAV1

### RJBB / KANSAI INTL

### RNAV STAR RWY06L/06R

### ALISA BRAVO ARRIVAL

From ALISA, to TANTA at or above 6000FT, NALTO, to ASAMI, to BAGLE, to BERRY at or above 4000FT.

Critical DME	AJD: 12.0NM to NALTO - NALTO KNE: 1.7NM to ASAMI - 4.2NM to BERRY
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	ALISA	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	TANTA	_	139 (132.3)	-7.2	21.7	_	+6000	_	_	RNAV1
003	TF	NALTO	_	126 (118.4)	-7.2	14.8	_	_	_	_	RNAV1
004	TF	ASAMI	_	110 (103.0)	-7.2	4.7		_	_	_	RNAV1
005	TF	BAGLE	_	057 (049.9)	-7.2	4.5	_	_	_	_	RNAV1
006	TF	BERRY	_	043 (036.0)	-7.2	5.2	_	+4000	_	_	RNAV1

#### **BECKY ALFA ARRIVAL**

From BECKY, to EVIAN at or above 6000FT, to ASAMI, to BAGLE, to ALLAN at or above 4000FT.

Critical DME	KNE: ASAMI - 4.0NM to ALLAN
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	BECKY	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	EVIAN	_	057 (049.5)	-7.2	7.0	_	+6000	_	_	RNAV1
003	TF	ASAMI	_	057 (049.6)	-7.2	12.8	_	_	_	_	RNAV1
004	TF	BAGLE		057 (049.9)	-7.2	4.5	1	_	1		RNAV1
005	TF	ALLAN	_	057 (049.9)	-7.2	5.0	_	+4000	_	_	RNAV1

### **BECKY BRAVO ARRIVAL**

From BECKY, to EVIAN at or above 6000FT, to ASAMI, to BAGLE, to BERRY at or above 4000FT.

Critical DME	KNE: ASAMI - 4.2NM to BERRY
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	BECKY	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	EVIAN	_	057 (049.5)	-7.2	7.0	_	+6000	_	_	RNAV1
003	TF	ASAMI	_	057 (049.6)	-7.2	12.8		_	_	_	RNAV1
004	TF	BAGLE	_	057 (049.9)	-7.2	4.5	1	_	_	_	RNAV1
005	TF	BERRY	_	043 (036.0)	-7.2	5.2	_	+4000	_	_	RNAV1

### RJBB / KANSAI INTL

### RNAV STAR RWY06L/06R

### CANDY ALFA ARRIVAL

From CANDY, to DATIS at or above 6000FT, to ALLAN at or above 4000FT.

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over		Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)		Navigation Specification
001	IF	CANDY	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	DATIS	_	011 (003.9)	-7.2	6.4	_	+6000	_	_	RNAV1
003	TF	ALLAN	_	011 (003.9)	-7.2	15.2	_	+4000	_	_	RNAV1

### CANDY BRAVO ARRIVAL

From CANDY, to DATIS at or above 6000FT, to BERRY at or above 4000FT.

Critical DME	KNE: 15.1NM to BERRY - 14.1NM to BERRY 8.1NM to BERRY - 6.1NM to BERRY
DME GAP	_
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over		•		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	CANDY	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	DATIS	_	011 (003.9)	-7.2	6.4	_	+6000	_	_	RNAV1
003	TF	BERRY	_	008 (000.9)	-7.2	16.2	_	+4000	_	_	RNAV1

#### RJBB / KANSAI INTL RNAV STAR RWY24L/24R ALISA CHARLIE ARRIVAL RNAV1 BECKY CHARLIE ARRIVAL CANDY CHARLIE ARRIVAL 1) DME/DME/IRU or GNSS required. 2) RADAR service required. VAR 7° W(2016) VOR/DME KOBE DMF 111.25 KCE SHODO CH-49Y STD 34°37′52″N/135°13′42″E 1178 MAYAH \<sup>A</sup>.<sup>A</sup>58° 0FT CH-91X 343623.7N DME 34°30′45″N/134°16′27″E 1351211.0E AWAJI 2500FT 4000 AJD :=:-1190 CH-103X ALISA 🦃 34°16′13″N/134°42′47″E LILAC 900FT 343042.6N 342710.7N 1345842.0E 1340804.1E 058 058 12.6 VOR/DME AWAJI ALISA CHARLIE ARRIVAL 0.97 KANSAI 341613.1N **TANTA** 111.8 KNE 1344246.6E 341604.9N CH-55X 7000 1342729.2E 34°25′48″N/135°15′06″E 0FT **NALTO** 340900.6N DME SHINODA 1344313.3E BECKY CHARLIE ARRIVAL SKD 1157 CH-70X VORTAC CANDY CHARLIE ARRIVAL 34°29′31″N/135°26′54″E TOKUSHIMA 200FT 114.9 TSC CH-96X **Ξ:**\_ 34°07′47″N/134°36′31″E , de DMF **GOBOH** BECKY 1203 GBD CH-116X **Ξ**∷ 335509.0N CANDY 1343030.6E ~ 335229.8N 33°54′36″N/135°06′22″E 1345541.8E ALISA CHARLIE ARRIVAL From ALISA, to TANTA, to AWAJI at or above 7000FT, to LILAC, to MAYAH at 4000FT. KNE: 4.7NM to AWAJI - AWAJI Critical DME TZT: AWAJI - 11.0NM to LILAC GBD: AWAJI - MAYAH DME GAP See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 Inappropriate Navaids Serial Path Waypoint Magnetic Distance Turn Altitude Speed Vertical Navigation Fly Course Number Descriptor Identifier Over [°M(°T)] Variation (NM) Direction (KIAS) Angle Specification (FT) 001 IF **ALISA** -7.5 RNAV1 140 002 RNAV1 **TANTA** -7.5 TF 21.7 (132.3)097 003 **AWAJI** +7000 TF -7.5 12.6 RNAV1 (089.3)

LILAC

**MAYAH** 

004

005

TF

TF

058

(050.1) 058

(050.3)

-7.5

-7.5

17.1

14.4

4000

RNAV1

RNAV1

### RJBB / KANSAI INTL

### RNAV STAR RWY24L/24R

### BECKY CHARLIE ARRIVAL

From BECKY, to NALTO, to AWAJI at or above 7000FT, to LILAC, to MAYAH at 4000FT.

Critical DME	GBD: 5.2NM to AWAJI - 4.2NM to AWAJI AWAJI - MAYAH TZT: AWAJI - 11.0NM to LILAC
DME GAP	<del>-</del>
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		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BECKY	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	NALTO	_	045 (037.2)	-7.5	17.4	_	-	_	_	RNAV1
003	TF	AWAJI	_	005 (357.1)	-7.5	7.2	_	+7000	_	_	RNAV1
004	TF	LILAC	_	058 (050.1)	-7.5	17.1	ı	_	ı	_	RNAV1
005	TF	MAYAH	_	058 (050.3)	-7.5	14.4	_	4000	_	_	RNAV1

### CANDY CHARLIE ARRIVAL

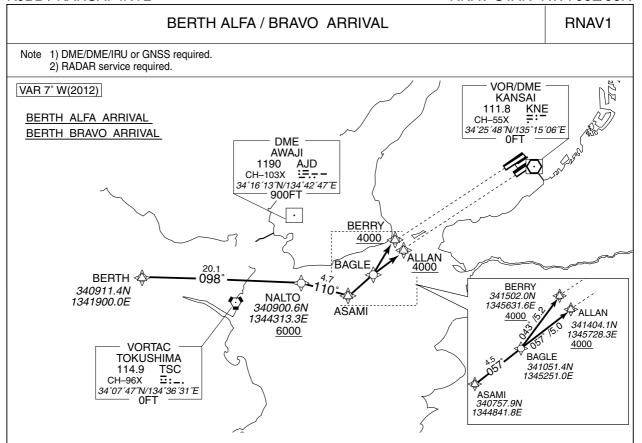
From CANDY, to NALTO, to AWAJI at or above 7000FT, to LILAC, to MAYAH at 4000FT.

Critical DME	GBD: 5.2NM to AWAJI - 4.2NM to AWAJI AWAJI - MAYAH KNE: 16.5NM to NALTO - NALTO TZT: AWAJI - 11.0NM to LILAC
DME GAP	<del>-</del>
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	CANDY	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	NALTO	_	335 (328.0)	-7.5	19.5	-	_	_	_	RNAV1
003	TF	AWAJI	_	005 (357.1)	-7.5	7.2	_	+7000	_	_	RNAV1
004	TF	LILAC	_	058 (050.1)	-7.5	17.1	-	_	١	_	RNAV1
005	TF	MAYAH	_	058 (050.3)	-7.5	14.4	_	4000	_	_	RNAV1

#### RJBB / KANSAI INTL

#### RNAV STAR RWY06L/06R



#### BERTH ALFA ARRIVAL

From BERTH, to NALTO at or above 6000FT, to ASAMI, to BAGLE, to ALLAN at or above 4000FT.

Critical DME	AJD: 8.1NM to NALTO - 5.1NM to NALTO KNE: 1.7NM to ASAMI - 4.0NM to ALLAN
DME GAP	_
Inappropriate Na	raids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BERTH	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	NALTO	_	098 (090.4)	-7.2	20.1	_	+6000	_	_	RNAV1
003	TF	ASAMI	_	110 (103.0)	-7.2	4.7	_	_	-	_	RNAV1
004	TF	BAGLE	_	057 (049.9)	-7.2	4.5	1	-	_	_	RNAV1
005	TF	ALLAN	_	057 (049.9)	-7.2	5.0	_	+4000		_	RNAV1

### RJBB / KANSAI INTL

### RNAV STAR RWY06L/06R

### BERTH BRAVO ARRIVAL

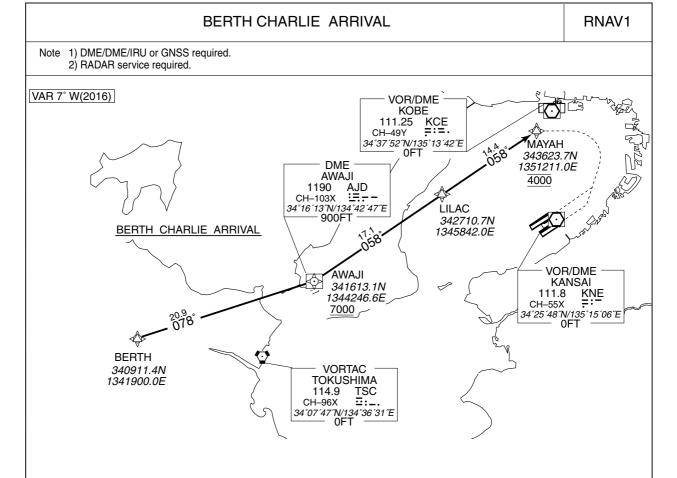
From BERTH, to NALTO at or above 6000FT, to ASAMI, to BAGLE, to BERRY at or above 4000FT.

Critical DME	AJD: 8.1NM to NALTO - 5.1NM to NALTO KNE: 1.7NM to ASAMI - 4.2NM to BERRY
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	BERTH	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	NALTO	_	098 (090.4)	-7.2	20.1	_	+6000	_	_	RNAV1
003	TF	ASAMI	_	110 (103.0)	-7.2	4.7	-	1	_	_	RNAV1
004	TF	BAGLE	_	057 (049.9)	-7.2	4.5	_	1	_	_	RNAV1
005	TF	BERRY	_	043 (036.0)	-7.2	5.2	_	+4000	_	_	RNAV1

### RJBB / KANSAI INTL

#### RNAV STAR RWY24L/24R



### BERTH CHARLIE ARRIVAL

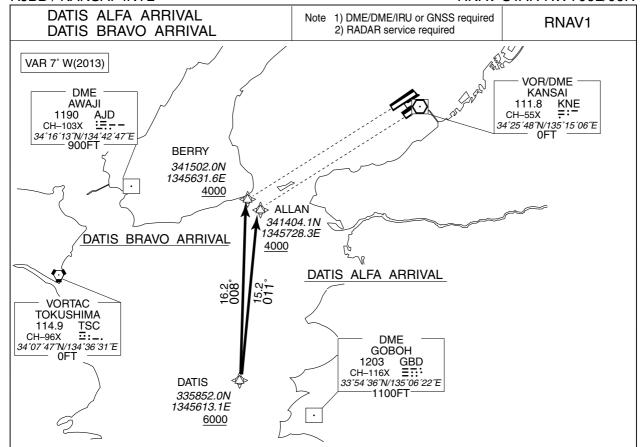
From BERTH, to AWAJI at or above 7000FT, to LILAC, to MAYAH at 4000FT.

Critical DME	AJD: 10.9NM to AWAJI - 4.9NM to AWAJI KNE: 4.9NM to AWAJI - AWAJI TZT: AWAJI - 11.0NM to LILAC GBD: AWAJI - MAYAH
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		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BERTH	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	AWAJI	_	078 (070.2)	-7.5	20.9	_	+7000	_	_	RNAV1
003	TF	LILAC	1	058 (050.1)	-7.5	17.1	-	_	١	_	RNAV1
004	TF	MAYAH	_	058 (050.3)	-7.5	14.4	_	4000	_	_	RNAV1

#### RJBB / KANSAI INTL

#### RNAV STAR RWY06L/06R



### DATIS ALFA ARRIVAL

From DATIS at or above 6000FT, to ALLAN at or above 4000FT.

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

Serial Number	Path Descriptor	Waypoint Identifier		Course [°M(°T)]	Magnetic Variation		Turn Direction		'		Navigation Specification
001	IF	DATIS	_	_	-7.2	_	_	+6000	_	_	RNAV1
002	TF	ALLAN	_	011 (003.9)	-7.2	15.2	_	+4000	_	_	RNAV1

### DATIS BRAVO ARRIVAL

From DATIS at or above 6000FT, to BERRY at or above 4000FT.

Critical DME	KNE: 15.1NM to BERRY - 14.1NM to BERRY 8.1NM to BERRY - 6.1NM to BERRY
DME GAP	-
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier			Magnetic Variation		Turn Direction		'		Navigation Specification
001	IF	DATIS	_	_	-7.2	_	_	+6000	_	_	RNAV1
002	TF	BERRY	_	008 (000.9)	-7.2	16.2	_	+4000	_	_	RNAV1

#### RJBB / KANSAI INTL RNAV STAR RWY24L/24R 1) DME/DME/IRU or GNSS required. Note DATIS CHARLIE ARRIVAL RNAV1 2) RADAR service required. VOR/DME VAR 7° W(2016) KOBF MAYAH 111.25 KCE 343623.7N CH-49Y =:=. 1351211.0E 34°37′52″N/135°13′42″E 4000 0FT LILAC 342710.7N 1345842.0E DMF **AWAJI** 1190 AJD CH-103X :=. 34°16′13″N/134°42′47″E 900FT 1:36 058 VOR/DME **AWAJI KANSAI** 341613.1N 111.8 KNE 1344246.6E CH-55X 34°25′48″N/135°15′06″E 7000 **NALTO** 340900.6N 1344313.3E DATIS CHARLIE ARRIVAL VORTAC J.00 **TOKUSHIMA** TSC □:-114.9 CH-96X DMF 34°07′47″N/134°36′31″E OFT **GOBOH** 1203 GBD CH-116X **Ξ**... **DATIS** 33°54′36″N/135°06′22″E 1100FT 335852.0N 1345613.1E DATIS CHARLIE ARRIVAL From DATIS, to NALTO, to AWAJI at or above 7000FT, to LILAC, to MAYAH at 4000FT. GBD: 5.2NM to AWAJI - 4.2NM to AWAJI Critical DME AWAJI - MAYAH AWAJI - 11.0NM to LILAC DME GAP Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 Serial Path Waypoint Fly Course Magnetic Distance Turn Altitude | Speed Vertical Navigation Number Descriptor Identifier (FT) Specification Over [°M(°T)] Variation (NM) Direction (KIAS) Angle 001 RNAV1 IF **DATIS** -7.5 321 (313.4) 002 -7.5 TF **NALTO** 14.8 RNAV1 005 (357.1) 003 TF **AWAJI** -7.5 7.2 +7000 RNAV1 058 004 RNAV1

-7.5

-7.5

(050.1)058 (050.3)

17.1

14.4

4000

005

LILAC

MAYAH

TF

TF

RNAV1

#### RJBB / KANSAI INTL RNAV STAR RWY24L/24R ALISA DELTA ARRIVAL BECKY DELTA ARRIVAL RNAV1 BERTH DELTA ARRIVAL CANDY DELTA ARRIVAL 1) DME/DME/IRU or GNSS required. 2) RADAR service required. VAR 7° W(2016) VOR/DME **KOBE** 111.25 KCE CH-49Y 34°37′52″N/135°13′42″E MAYAH 343623.7N DME 1351211.0E AWAJI 4000 ALISA 1190 AJD CH-103X :=.-ALISA DELTA ARRIVAL 343042.6N **HAMAR** 1340804.1E 34°16′13″N/134°42′47″E 342434.7N 900FT 180: 1350304.1E **TOMOH** VOR/DME 341649.6N **TANTA** KANSAI 1350020.3E 341604.9N-111.8 KNE ŐŚÅ. 1342729.2E CH-55X 34°25′48″N/135°15′06″E 0FT 098 6000 **BERTH** BAGLE 340911.4N 1341900.0E **NALTO** ASAMI BERTH DELTA ARRIVAL VORTAC **TOKUSHIMA** DATIS TSC Ξ:\_ 114.9 335852.0N EVIAN CH-96X 1345613.1E 335942.2N 34°07′47″N/134°36′31″E — 0FT <u>6000</u> 1343657.3E CANDY DELTA ARRIVAL 6000 **BECKY** 335509.0N CANDY 1343030.6E 335229.8N 1345541.8E BECKY DELTA ARRIVAL DME GOBOH **BAGLE** 1203 GBD CH–116X **Ξ**∷ 341051.4N 1345251.0E 33°54′36″N/135°06′22″E 1100FT **NALTO** 110° 340900.6N ASAMI 1344313.3E 340757.9N 6000 1344841.8E

### RJBB / KANSAI INTL

### RNAV STAR RWY24L/24R

### ALISA DELTA ARRIVAL

From ALISA, to TANTA, to NALTO at or above 6000FT, to ASAMI, to BAGLE, to TOMOH, to HAMAR, to MAYAH at 4000FT.

Critical DME	AJD: 2.0NM to MAYAH - MAYAH KNE: 1.7NM to ASAMI - BAGLE GBD: 7.1NM to HAMAR - 5.1NM to HAMAR
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	ALISA	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	TANTA	_	140 (132.3)	-7.5	21.7	_	_	_	_	RNAV1
003	TF	NALTO	_	126 (118.4)	-7.5	14.8	_	+6000	_	_	RNAV1
004	TF	ASAMI	_	110 (103.0)	-7.5	4.7	_	ı	-	_	RNAV1
005	TF	BAGLE	_	057 (049.9)	-7.5	4.5	_	ı	Ī	_	RNAV1
006	TF	томон	_	054 (046.0)	-7.5	8.6	_	ı	ĺ	_	RNAV1
007	TF	HAMAR	_	024 (016.2)	-7.5	8.1	_	_	_	_	RNAV1
008	TF	MAYAH	_	040 (032.4)	-7.5	14.0	_	4000	_	_	RNAV1

### BECKY DELTA ARRIVAL

From BECKY, to EVIAN at or above 6000FT, to ASAMI, to BAGLE, to TOMOH, to HAMAR, to MAYAH at 4000FT.

Critical DME	KNE: ASAMI - BAGLE GBD: 7.1NM to HAMAR - 5.1NM to HAMAR AJD: 2.0NM to MAYAH - MAYAH
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		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BECKY	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	EVIAN	_	057 (049.5)	-7.5	7.0	_	+6000	_	_	RNAV1
003	TF	ASAMI	_	057 (049.6)	-7.5	12.8	_	l	_	ı	RNAV1
004	TF	BAGLE		057 (049.9)	-7.5	4.5	_	ı	_	ı	RNAV1
005	TF	ТОМОН	_	054 (046.0)	-7.5	8.6	_	ı	_	_	RNAV1
006	TF	HAMAR	_	024 (016.2)	-7.5	8.1	_	_	_	_	RNAV1
007	TF	MAYAH	_	040 (032.4)	-7.5	14.0	_	4000	_	_	RNAV1

### RJBB / KANSAI INTL

### RNAV STAR RWY24L/24R

### BERTH DELTA ARRIVAL

From BERTH to NALTO at or above 6000FT, to ASAMI, to BAGLE, to TOMOH, to HAMAR, to MAYAH at 4000FT.

O direct DME	AJD: 8.1NM to NALTO - 5.1NM to NALTO 2.0NM to MAYAH - MAYAH
Critical DME	KNE: 1.7NM to ASAMI - BAGLE
	GBD: 7.1NM to HAMAR - 5.1NM to HAMAR
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	BERTH	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	NALTO	_	098 (090.4)	-7.5	20.1	_	+6000	_	_	RNAV1
003	TF	ASAMI	_	110 (103.0)	-7.5	4.7	_	_	_	_	RNAV1
004	TF	BAGLE	-	057 (049.9)	-7.5	4.5	1	_	_	_	RNAV1
005	TF	томон	-	054 (046.0)	-7.5	8.6	1	_	_	_	RNAV1
006	TF	HAMAR	_	024 (016.2)	-7.5	8.1	-	-	_	_	RNAV1
007	TF	MAYAH	_	040 (032.4)	-7.5	14.0	_	4000	_	_	RNAV1

### CANDY DELTA ARRIVAL

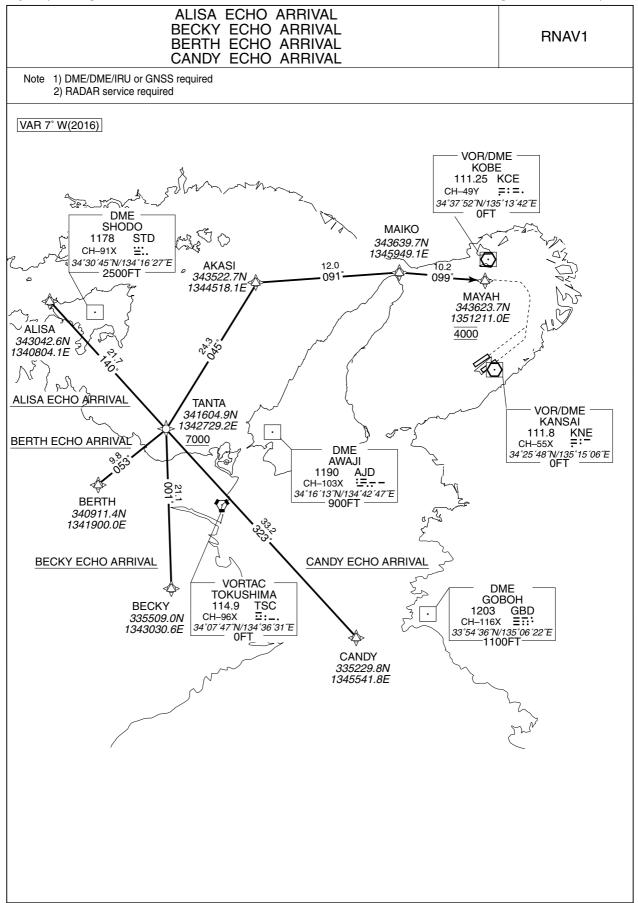
From CANDY, to DATIS at or above 6000FT, to TOMOH, to HAMAR, to MAYAH at 4000FT.

Critical DME	GBD: 7.1NM to HAMAR - 5.1NM to HAMAR AJD: 2.0NM to MAYAH - MAYAH
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	CANDY	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	DATIS	_	011 (003.9)	-7.5	6.4	_	+6000	_	_	RNAV1
003	TF	томон	_	018 (010.7)	-7.5	18.3	_	_	_	_	RNAV1
004	TF	HAMAR	_	024 (016.2)	-7.5	8.1	_	_	_	_	RNAV1
005	TF	MAYAH	_	040 (032.4)	-7.5	14.0	_	4000	_	_	RNAV1

#### RJBB / KANSAI INTL

#### RNAV STAR RWY24L/24R



### RJBB / KANSAI INTL

### RNAV STAR RWY24L/24R

### ALISA ECHO ARRIVAL

From ALISA, to TANTA at or above 7000FT, to AKASI, to MAIKO, to MAYAH at 4000FT.

Critical DME	KTE: TANTA - 18.3NM to AKASI AJD: 14.3NM to AKASI - 9.3NM to AKASI KNE: 8.0NM to MAYAH - MAYAH
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	ALISA	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	TANTA	_	140 (132.3)	-7.5	21.7	-	+7000	_	_	RNAV1
003	TF	AKASI	_	045 (037.2)	-7.5	24.3	ı	_	_	_	RNAV1
004	TF	MAIKO	_	091 (083.8)	-7.5	12.0	1	_	_	_	RNAV1
005	TF	MAYAH	_	099 (091.4)	-7.5	10.2	_	4000	_	_	RNAV1

### BECKY ECHO ARRIVAL

From BECKY, to TANTA at or above 7000FT, to AKASI, to MAIKO, to MAYAH at 4000FT.

Critical DME	KTE: TANTA - 18.3NM to AKASI AJD: 14.3NM to AKASI - 9.3NM to AKASI KNE: 8.0NM to MAYAH - MAYAH
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		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BECKY	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	TANTA	_	001 (353.2)	-7.5	21.1	-	+7000	_	_	RNAV1
003	TF	AKASI	-	045 (037.2)	-7.5	24.3	1	_	-	_	RNAV1
004	TF	MAIKO		091 (083.8)	-7.5	12.0	1	_	1	_	RNAV1
005	TF	MAYAH	_	099 (091.4)	-7.5	10.2	_	4000	_	_	RNAV1

### RJBB / KANSAI INTL

### RNAV STAR RWY24L/24R

### BERTH ECHO ARRIVAL

From BERTH, to TANTA at or above 7000FT, to AKASI, to MAIKO, to MAYAH at 4000FT.

Critical DME	KTE: TANTA - 18.3NM to AKASI AJD: 14.3NM to AKASI - 9.3NM to AKASI KNE: 8.0NM to MAYAH - MAYAH
DME GAP	_
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

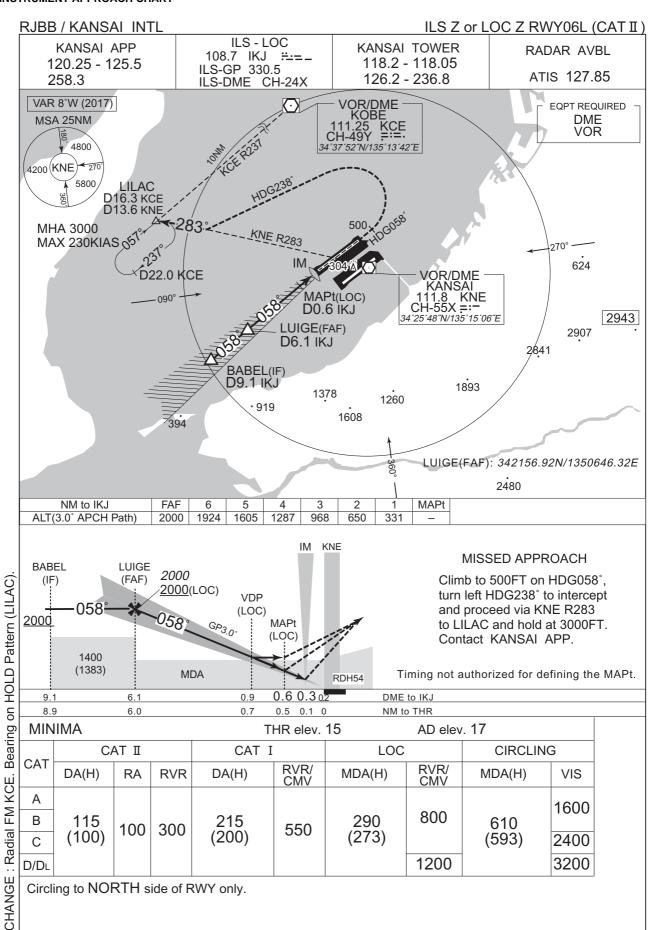
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BERTH	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	TANTA	_	053 (045.5)	-7.5	9.8	_	+7000	_	_	RNAV1
003	TF	AKASI	_	045 (037.2)	-7.5	24.3	ı	_	-	_	RNAV1
004	TF	MAIKO	_	091 (083.8)	-7.5	12.0	ı	_	_	_	RNAV1
005	TF	MAYAH	_	099 (091.4)	-7.5	10.2	_	4000	_	_	RNAV1

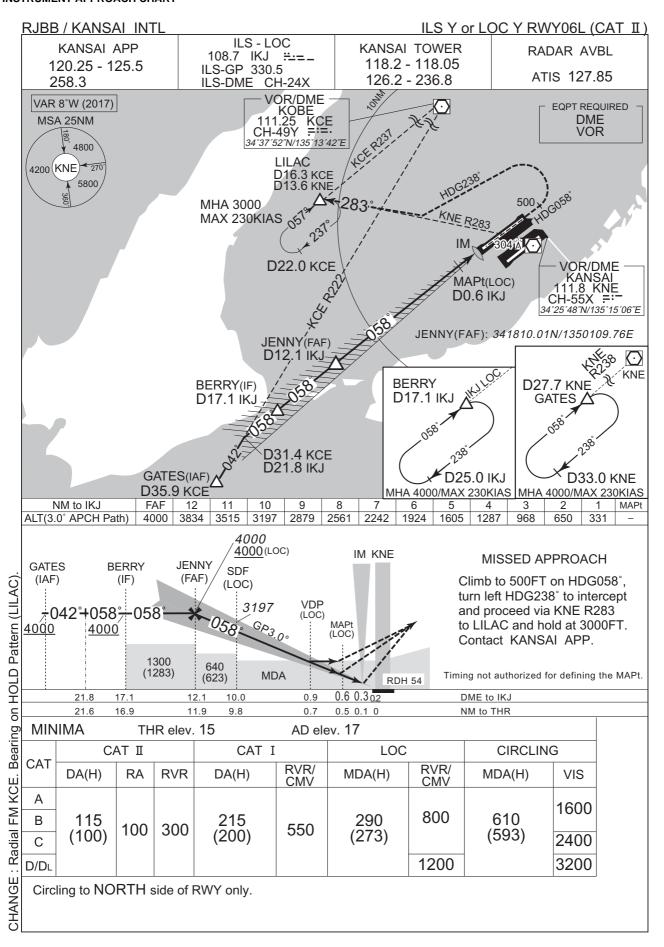
# CANDY ECHO ARRIVAL

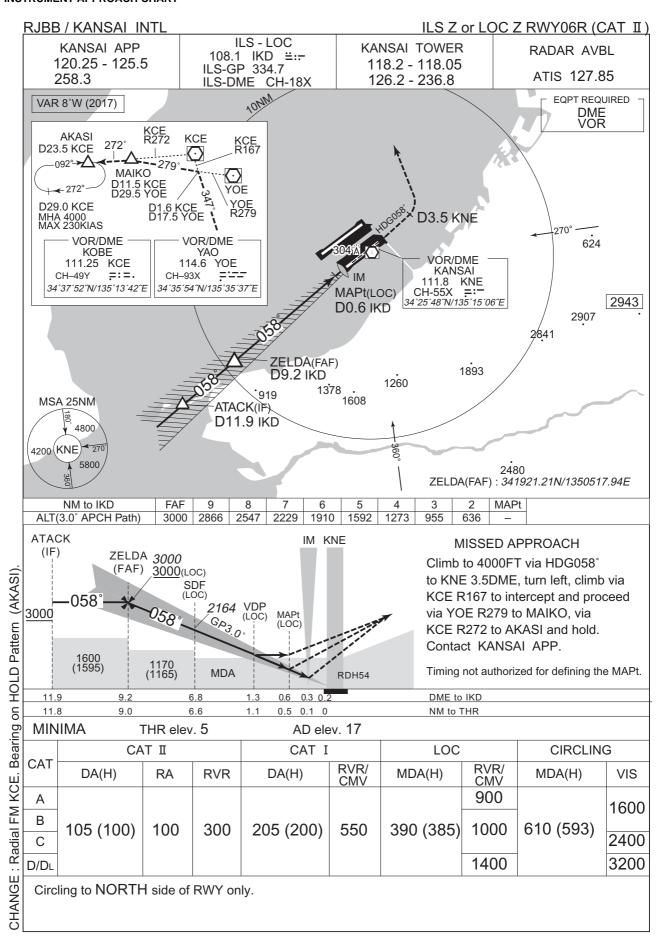
From CANDY, to TANTA at or above 7000FT, to AKASI, to MAIKO, to MAYAH at 4000FT.

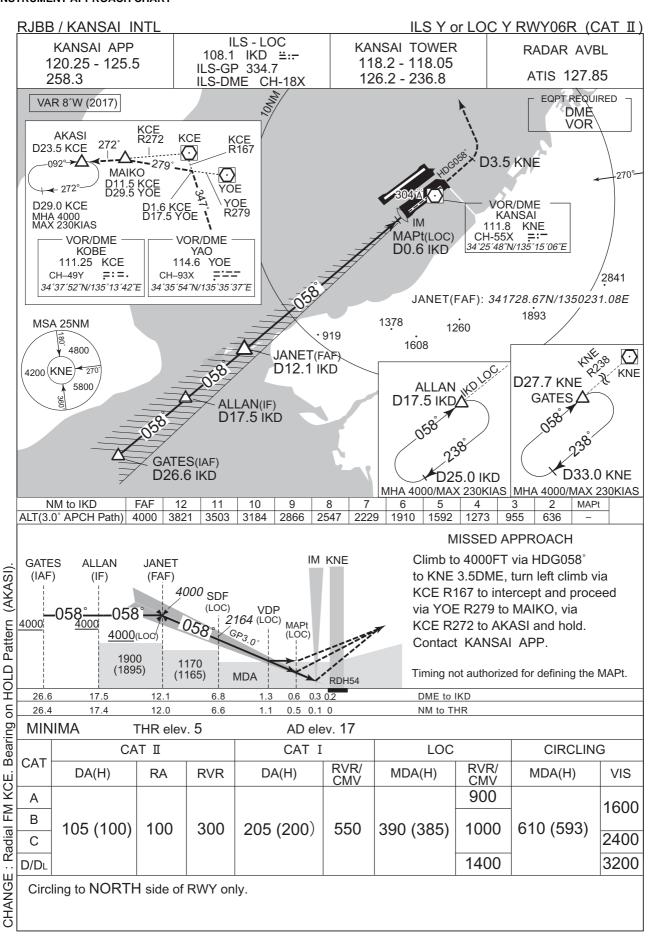
Critical DME	KTE: TANTA - 18.3NM to AKASI AJD: 14.3NM to AKASI - 9.3NM to AKASI KNE: 8.0NM to MAYAH - MAYAH
DME GAP	_
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

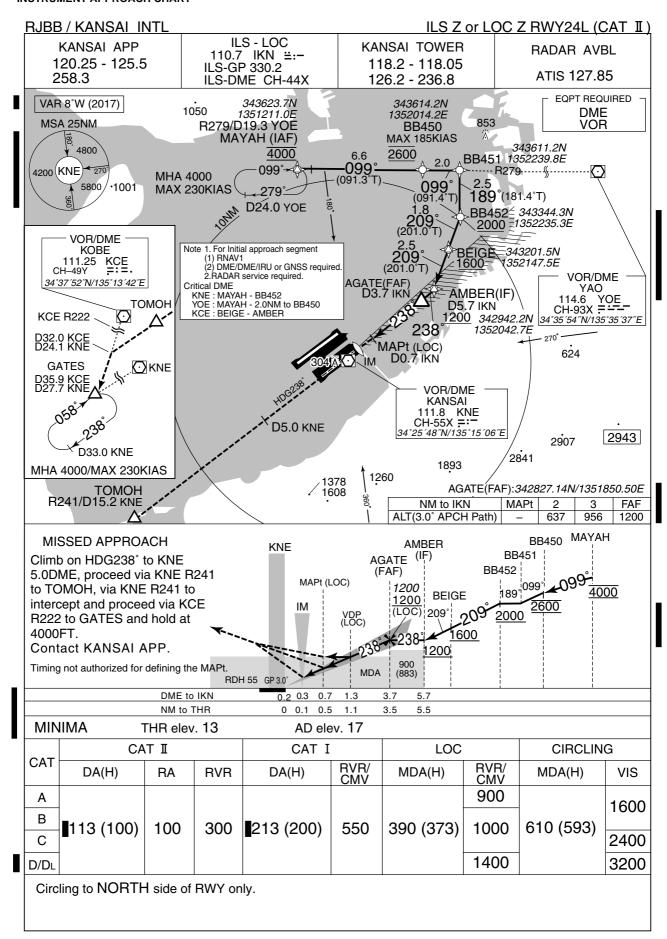
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	CANDY	_	_	-7.5	_	_	_	_	_	RNAV1
002	TF	TANTA	_	323 (315.4)	-7.5	33.2	_	+7000	_	_	RNAV1
003	TF	AKASI	_	045 (037.2)	-7.5	24.3	_	_	_	_	RNAV1
004	TF	MAIKO	_	091 (083.8)	-7.5	12.0	_	-	_	_	RNAV1
005	TF	MAYAH	_	099 (091.4)	-7.5	10.2	_	4000	_	_	RNAV1

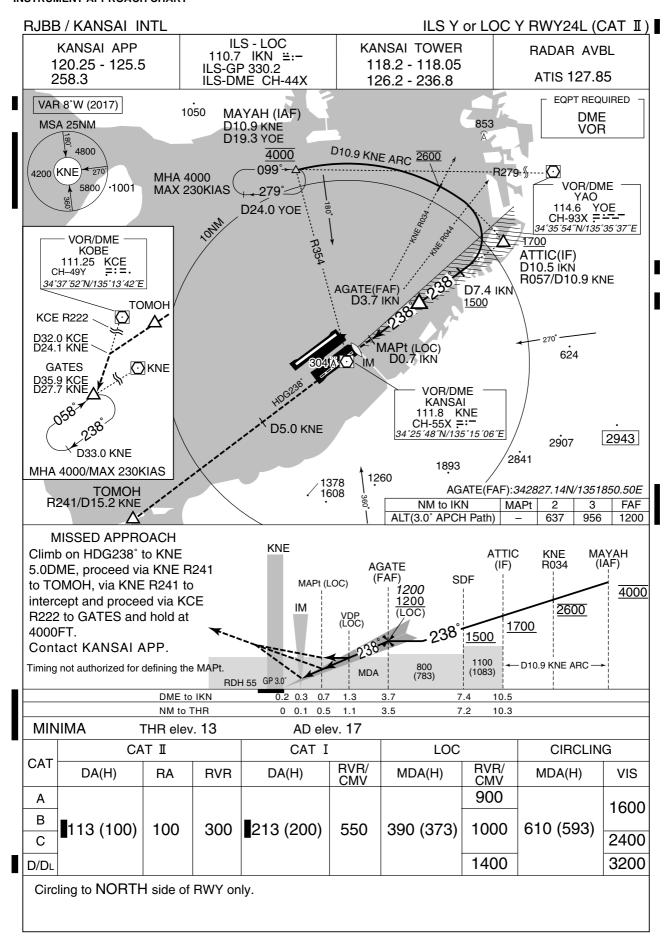


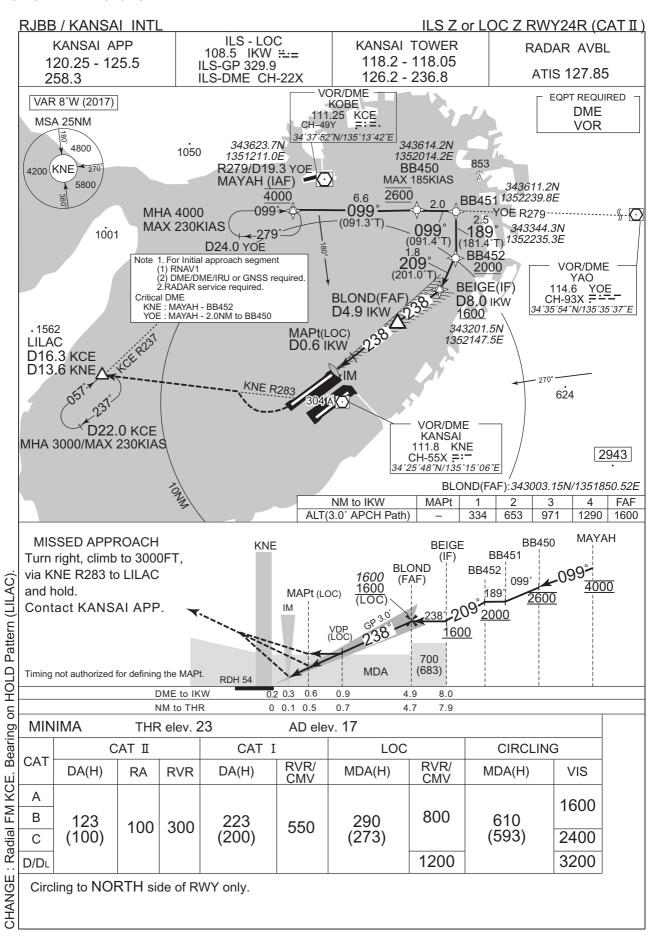


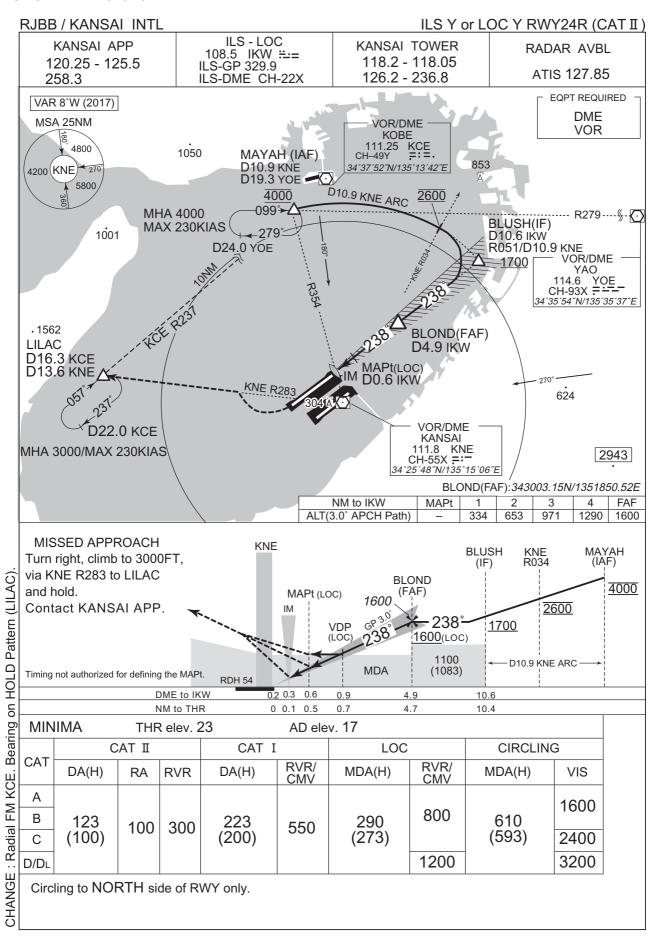


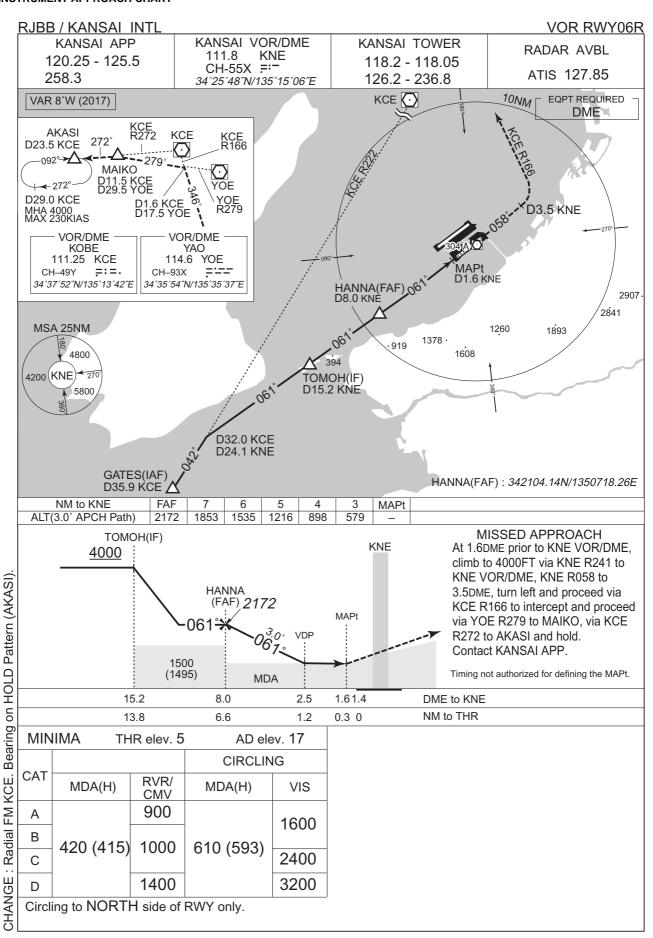


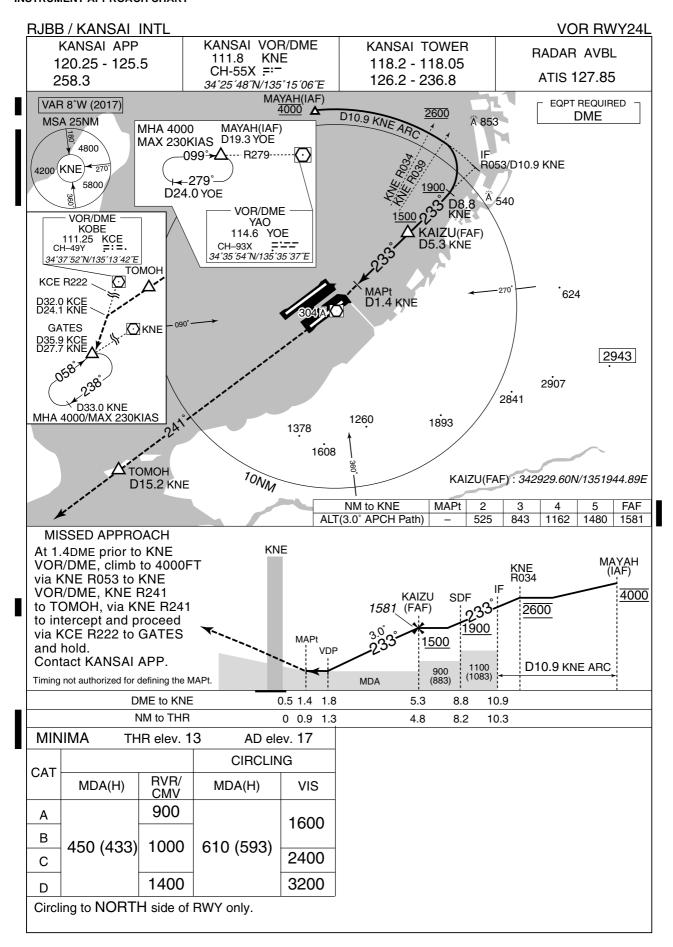


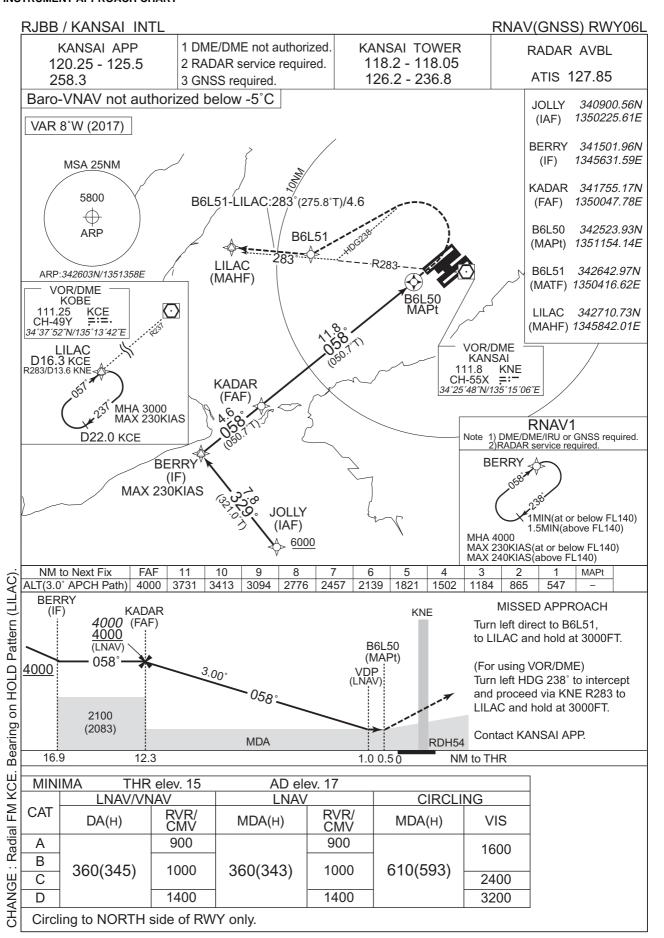


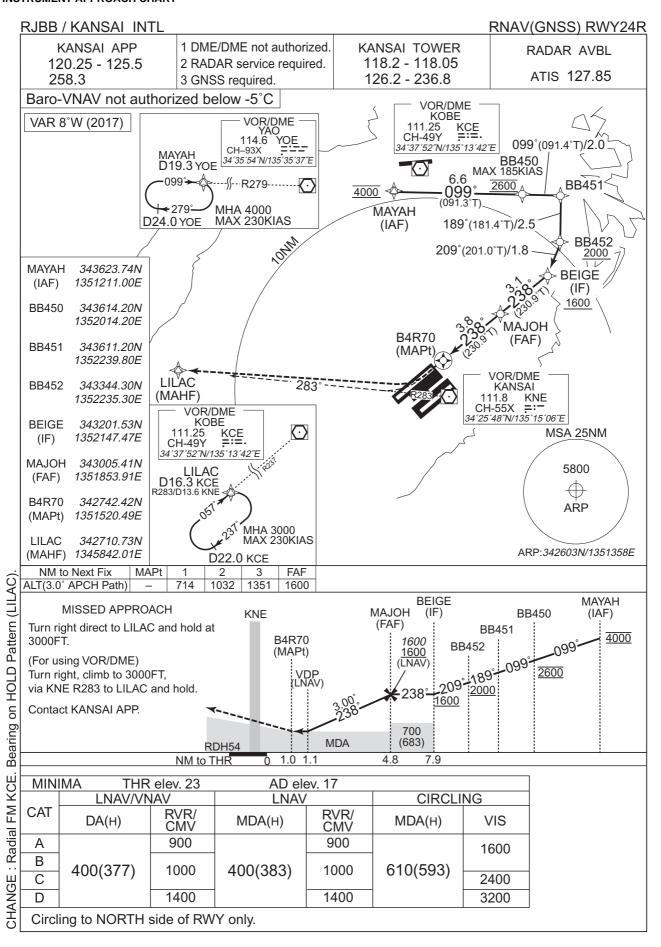


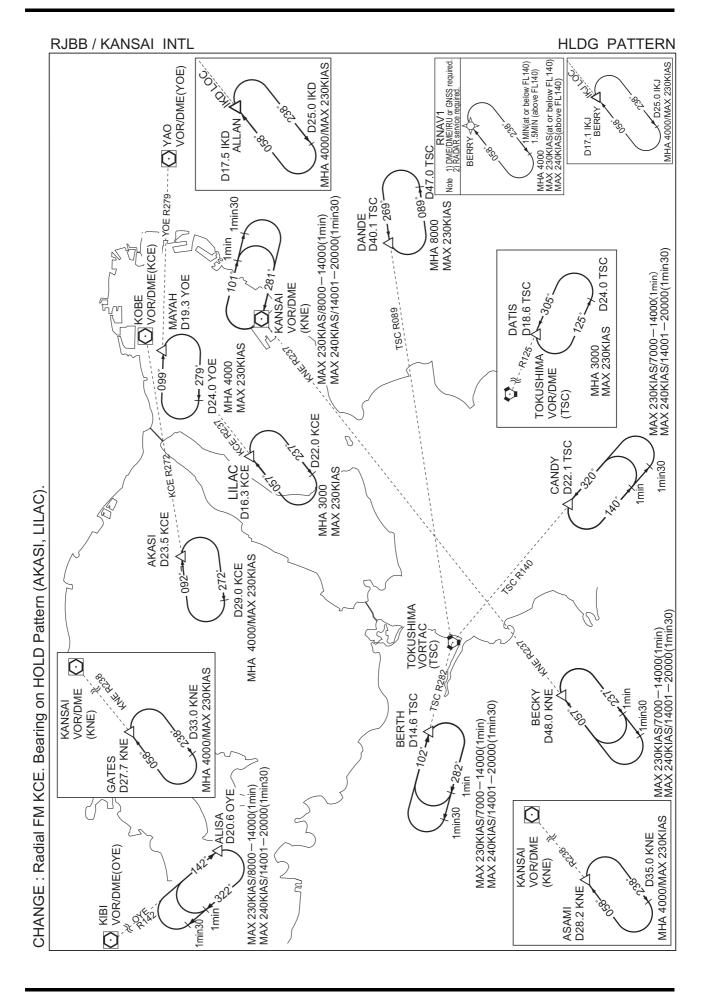


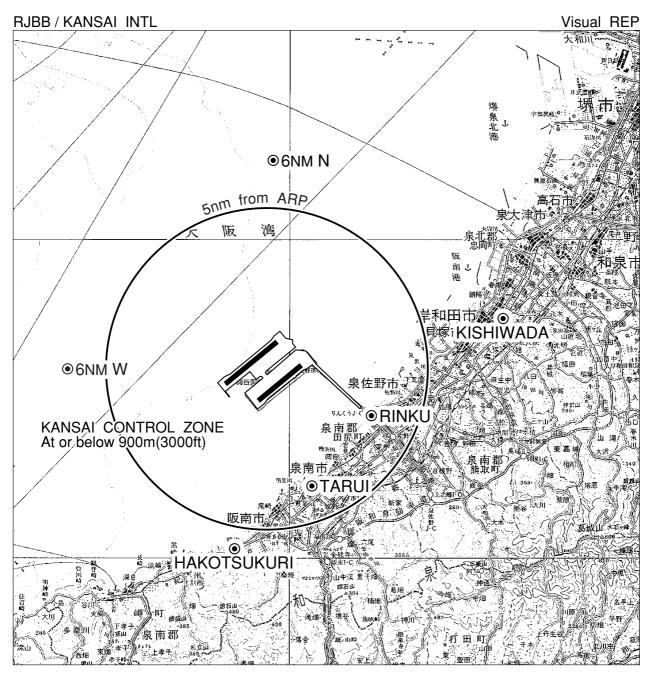












Call sign	BRG / DIST from ARP	Remarks
りんくう Rinku	119°/3.6NM	ゲートタワービル Building
樽 井 Tarui	165°/3.9NM	南海本線・樽井駅 Station
箱 作 Hakotsukuri	197°/5.7NM	南海本線・箱作駅 Station
岸 和 田 Kishiwada	084/7.4NM	南海本線・岸和田駅 Station
6NM W	270°/6.0NM	海上 Over the sea
6NM N	360°/6.0NM	海上 Over the sea

