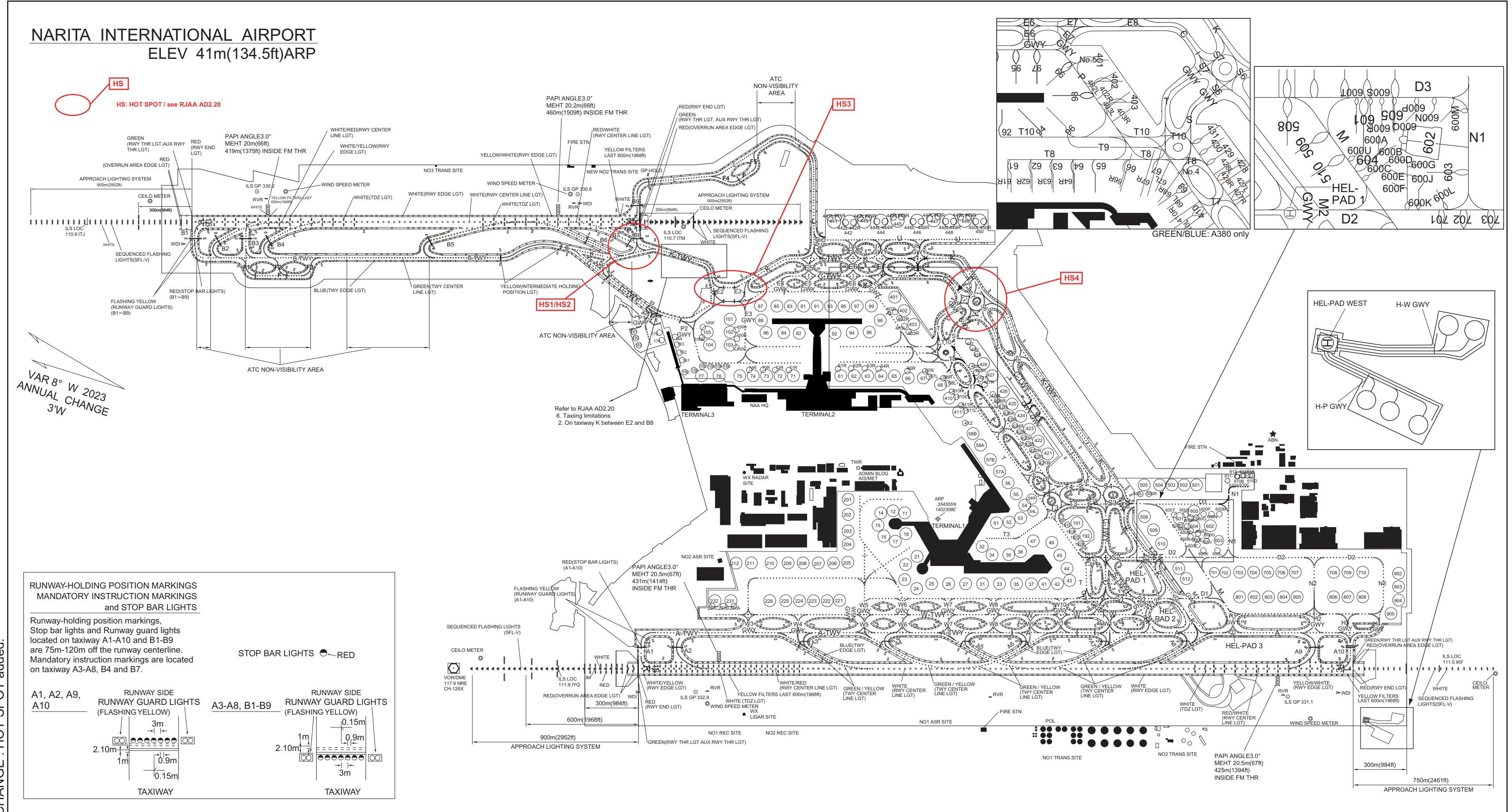


AERODROME CHART

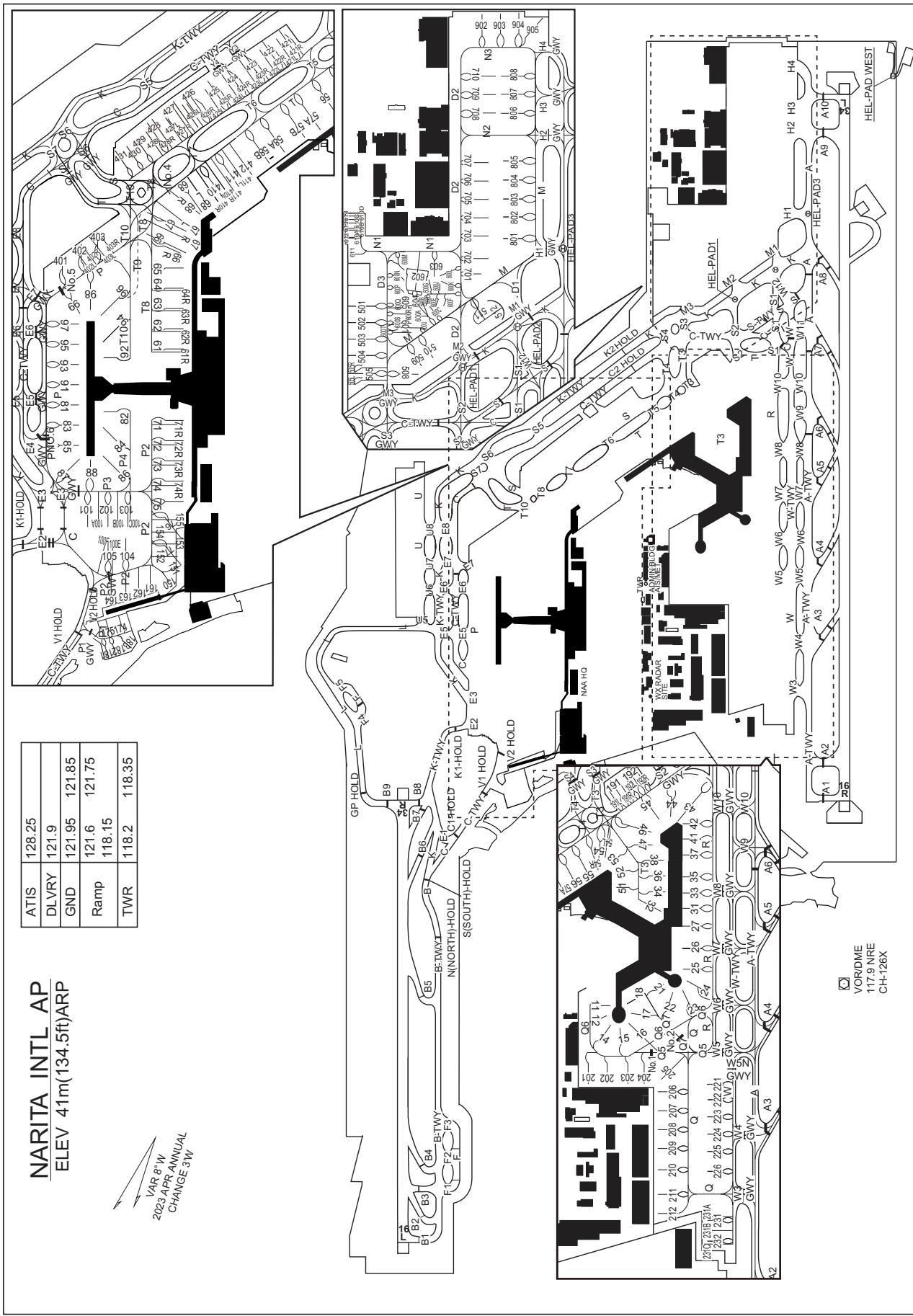


CHANGE : Ramp FREQ(118.15) added.

ATIS	128.25
DLVRY	121.9
GND	121.95
Ramp	121.6
TWR	118.2

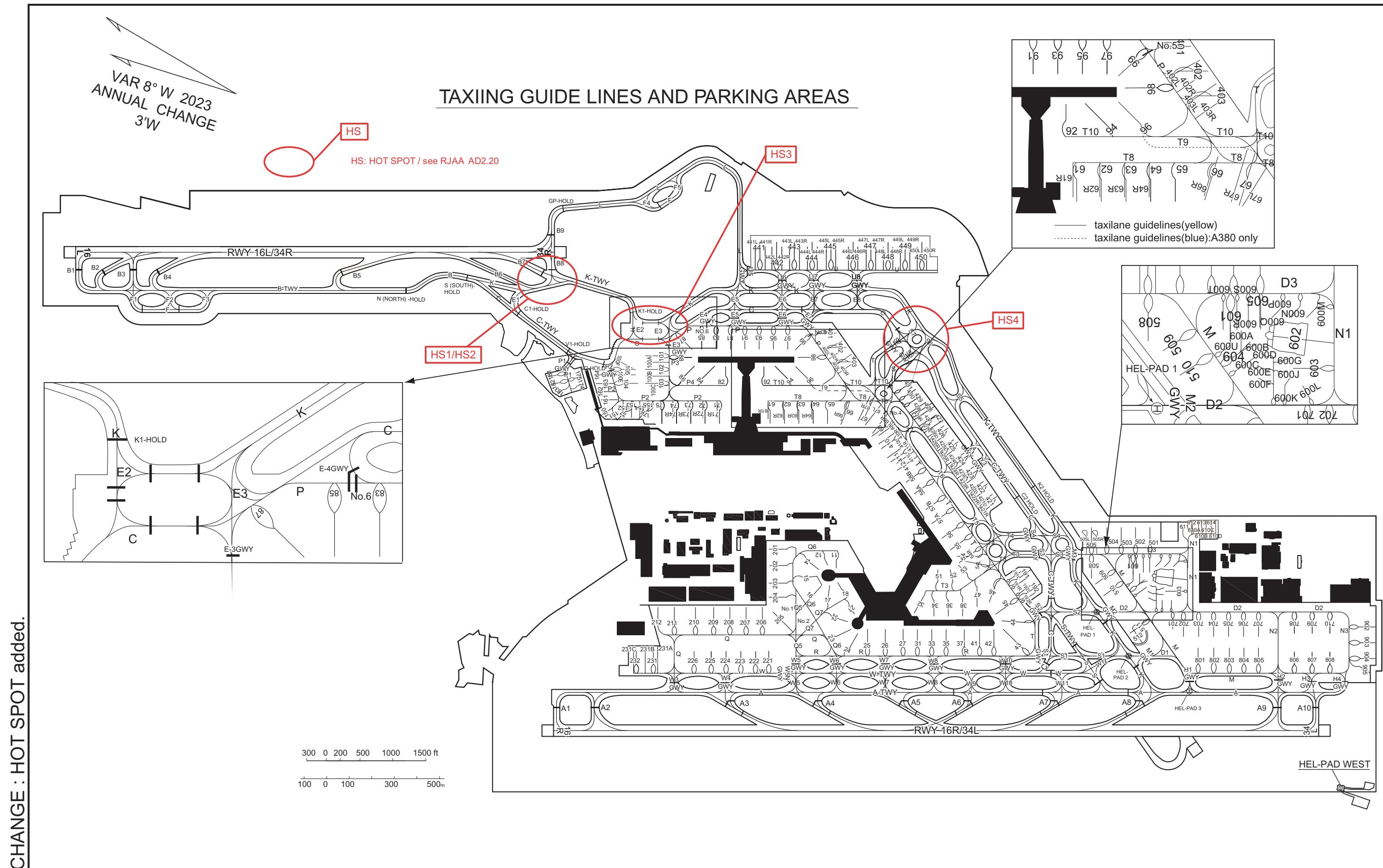
VARITA INTL AP
ELEV 41m(134.5ft)ARP

VAR 8° W
2023 APR ANNUAL
CHANGE 3.1%



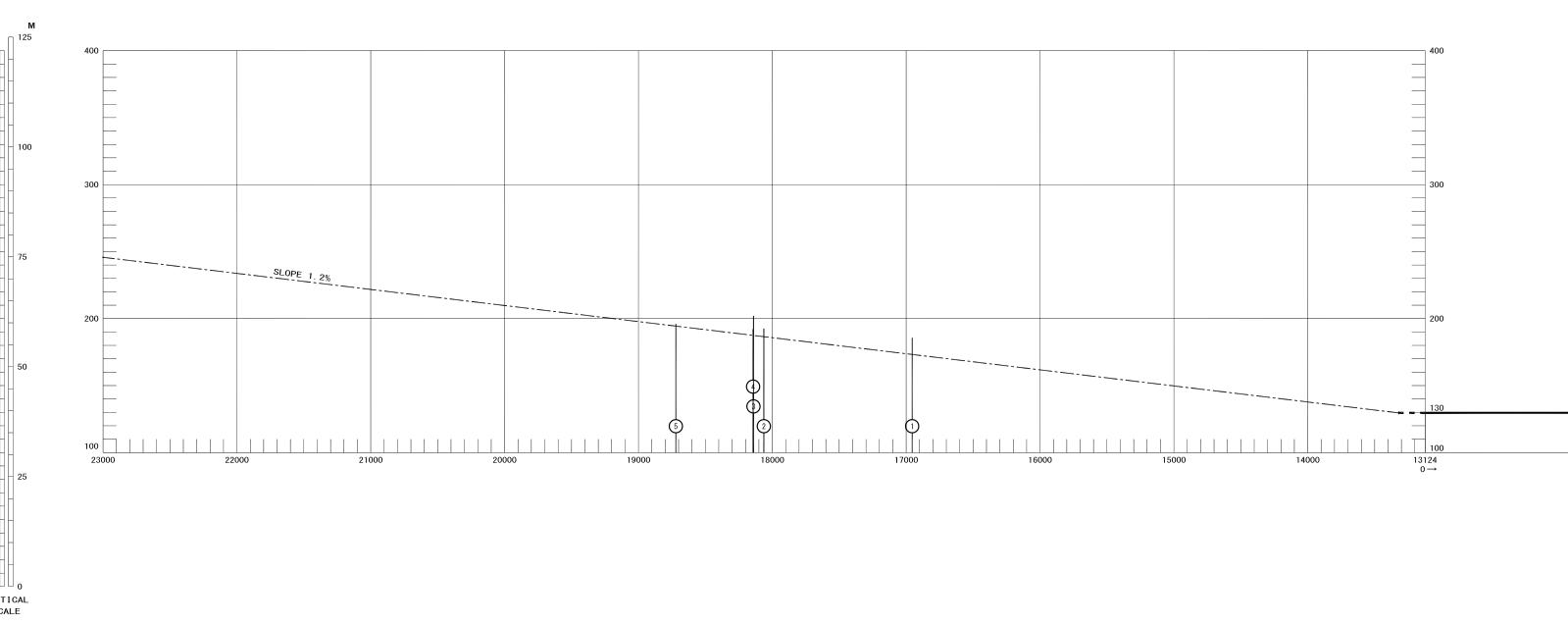
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TAXIING GUIDE LINES AND PARKING AREAS



CHANGE:Update

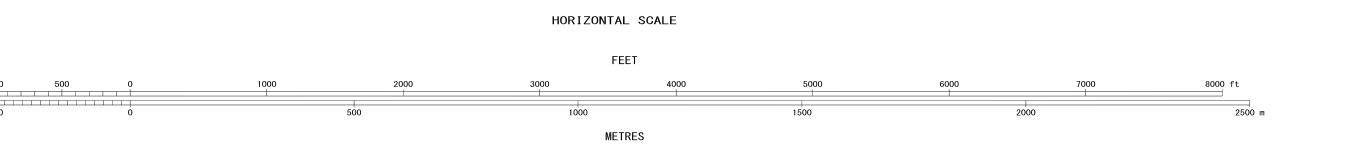
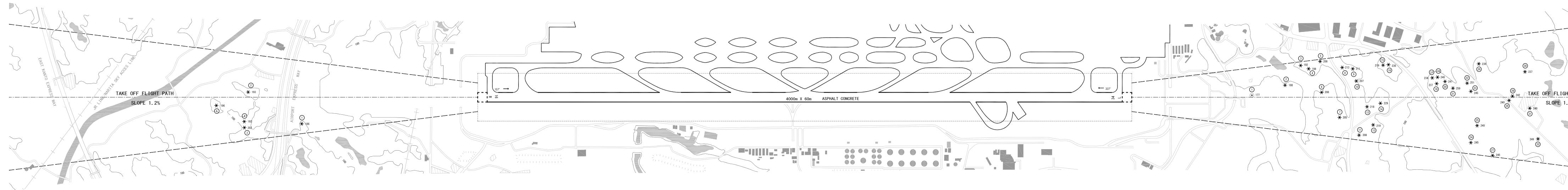
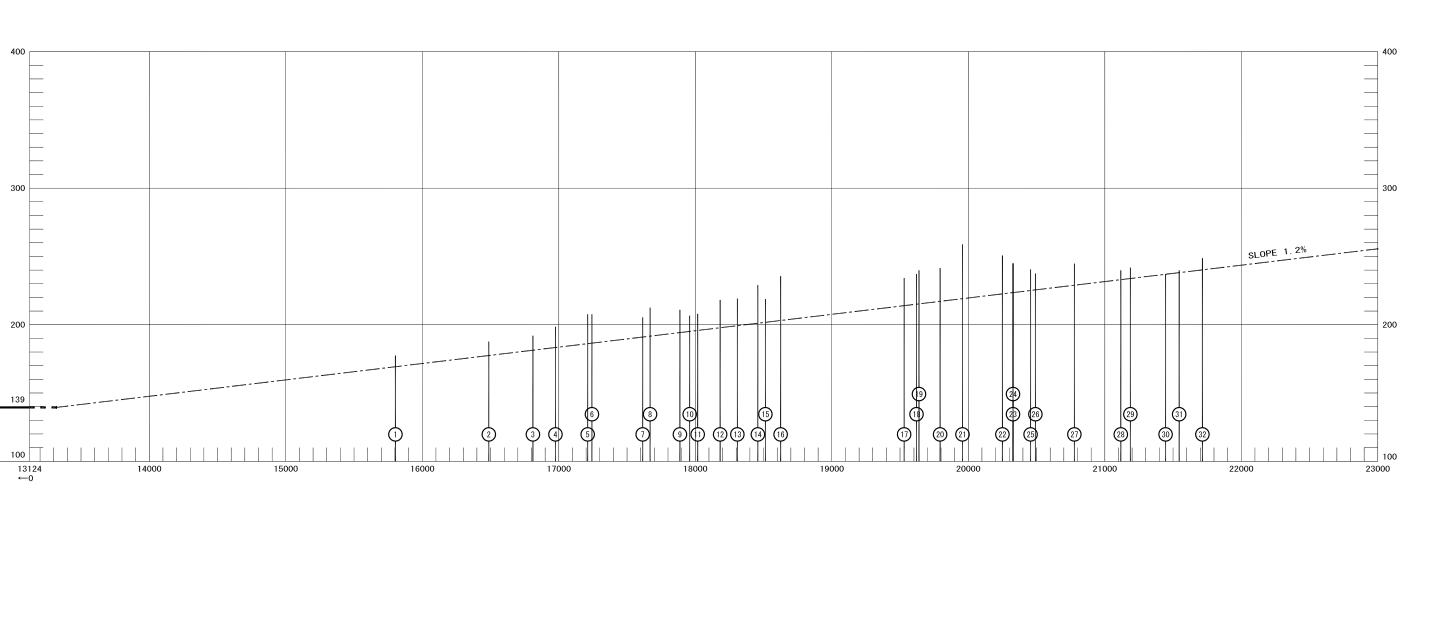
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
MAGNETIC VARIATION 8° W-FEB 2023



AERODROME OBSTRUCTION CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

NARITA INTERNATIONAL AIRPORT
RWY : 16R/34L

DECLARED DISTANCES	
RWY 16R	TAKE-OFF RUN AVAILABLE
4000m	4000m
4000m	ACCELERATE STOP DISTANCE AVAILABLE
4000m	4000m
4000m	LANDING DISTANCE AVAILABLE
4000m	4000m

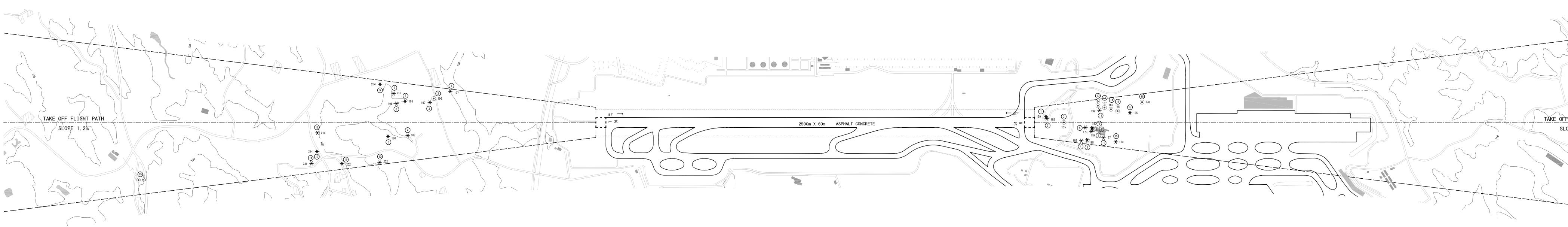
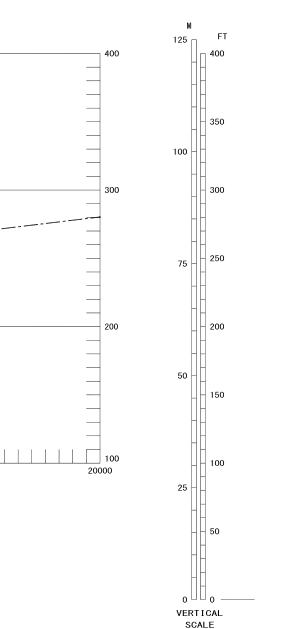
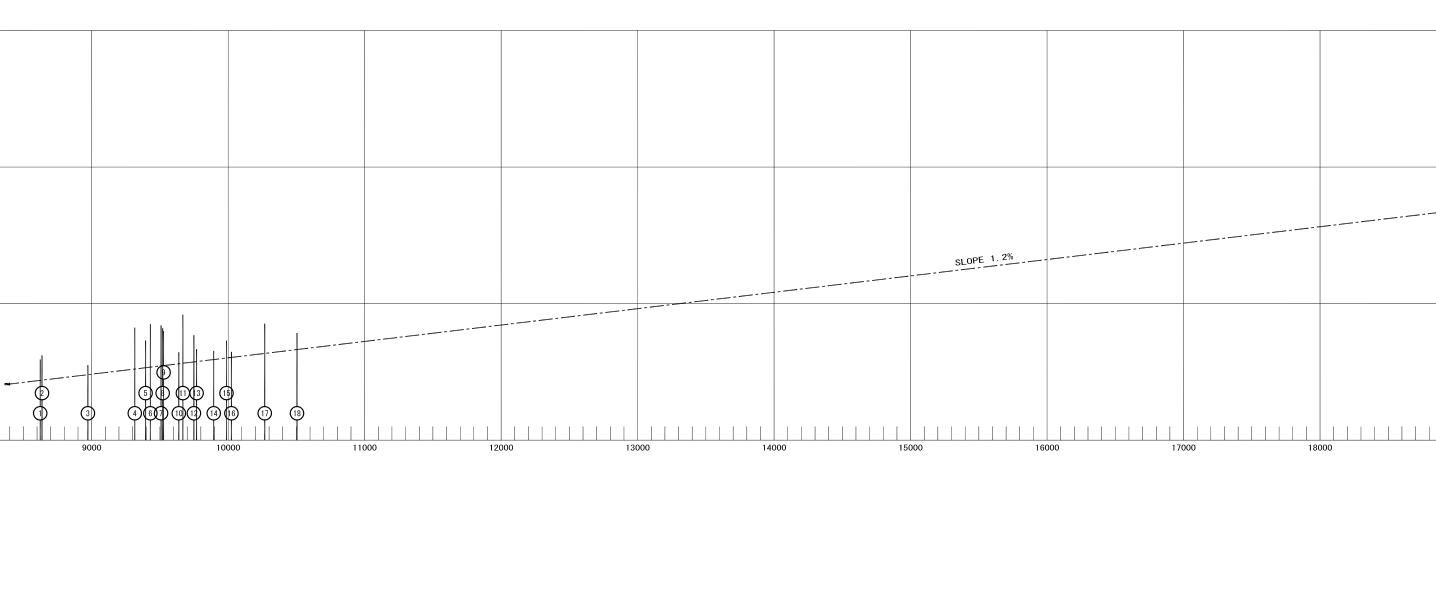
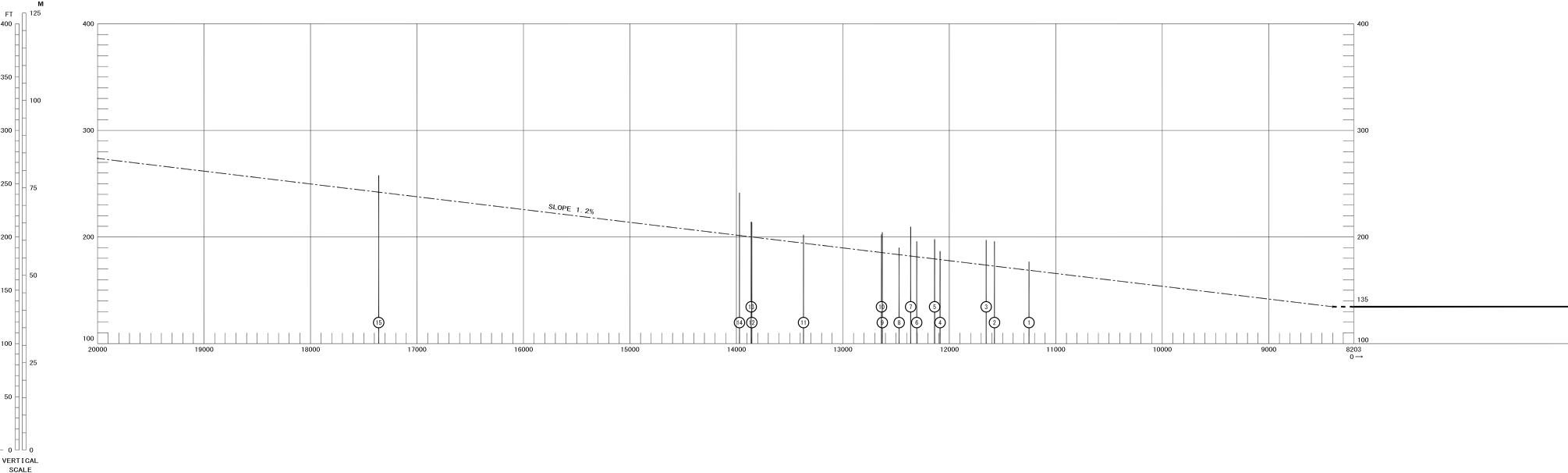


DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
MAGNETIC VARIATION 8° W-FEB 2023

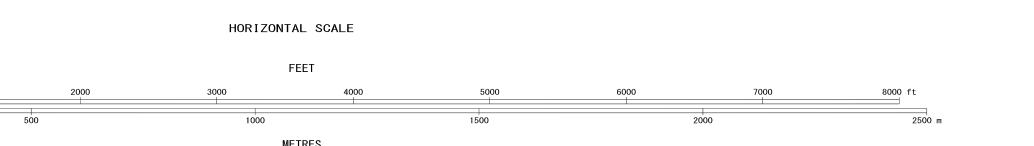
AERODROME OBSTRUCTION CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

NARITA INTERNATIONAL AIRPORT
RWY : 16L/34R

DECLARED DISTANCES	
RWY 16L	RWY 34R
2500m TAKE-OFF RUN AVAILABLE	2500m
2500m TAKE-OFF DISTANCE AVAILABLE	2500m
2500m ACCELERATE STOP DISTANCE AVAILABLE	2500m
2500m LANDING DISTANCE AVAILABLE	2500m



LEGEND		AMENDMENT RECORD		
(1)	IDENTIFICATION NUMBER	Nr	DATE	ENTERED BY
○	POLE, TOWER, SPIRE, ANTENNA, ETC			
*	TREE			
—	RAIL ROAD			
—	TRANSMISSION LINE OR OVERHEAD CABLE			
△	TRIANGULATION POINTS			
☆	AERONAUTICAL GROUND LIGHT			

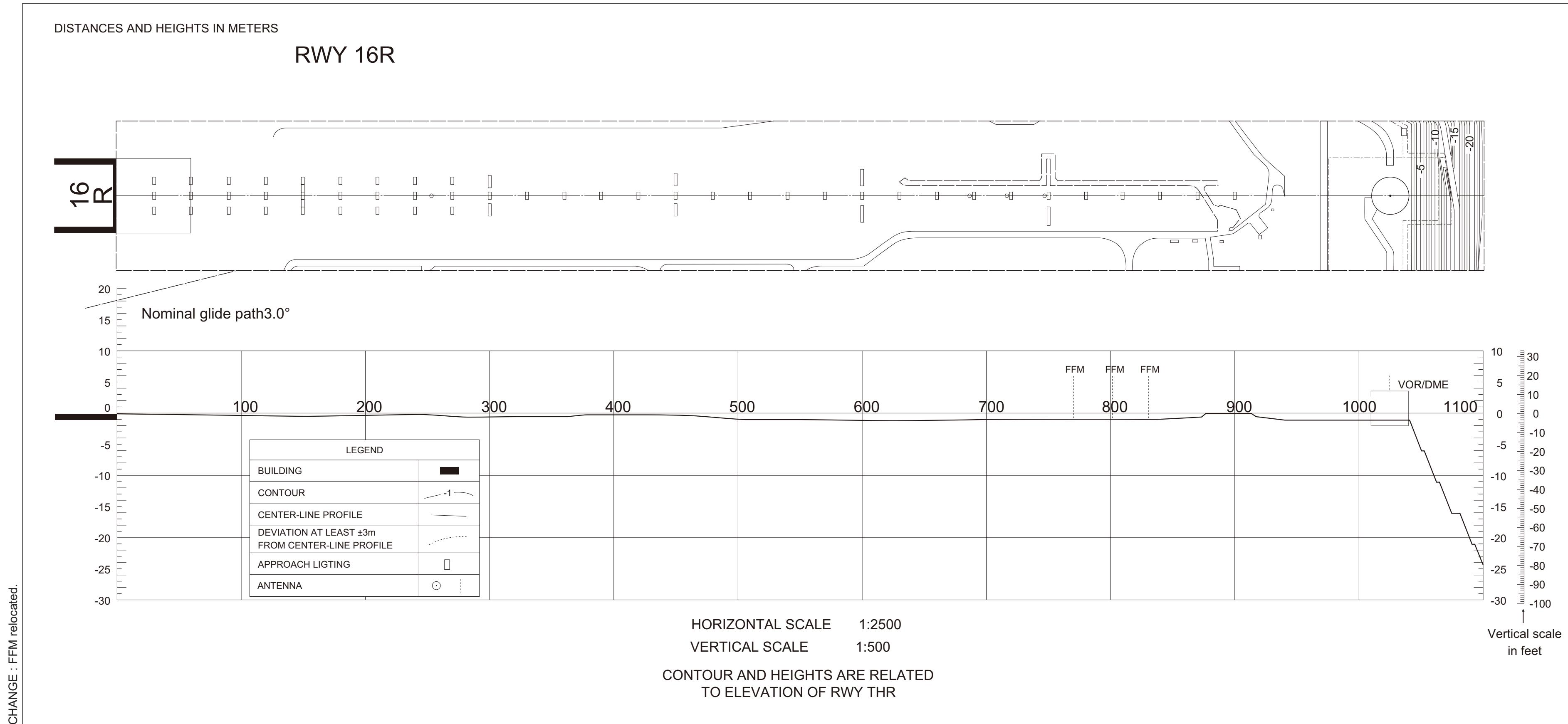


AERODROME OBSTRUCTION CHART-ICAO

DIMENSIONS AND ELEVATION IN FEET BEARINGS ARE MAGNETIC



PRECISION APPROACH TERRAIN PROFILE CHART



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

SID

SAKURA FIVE DEPARTURE

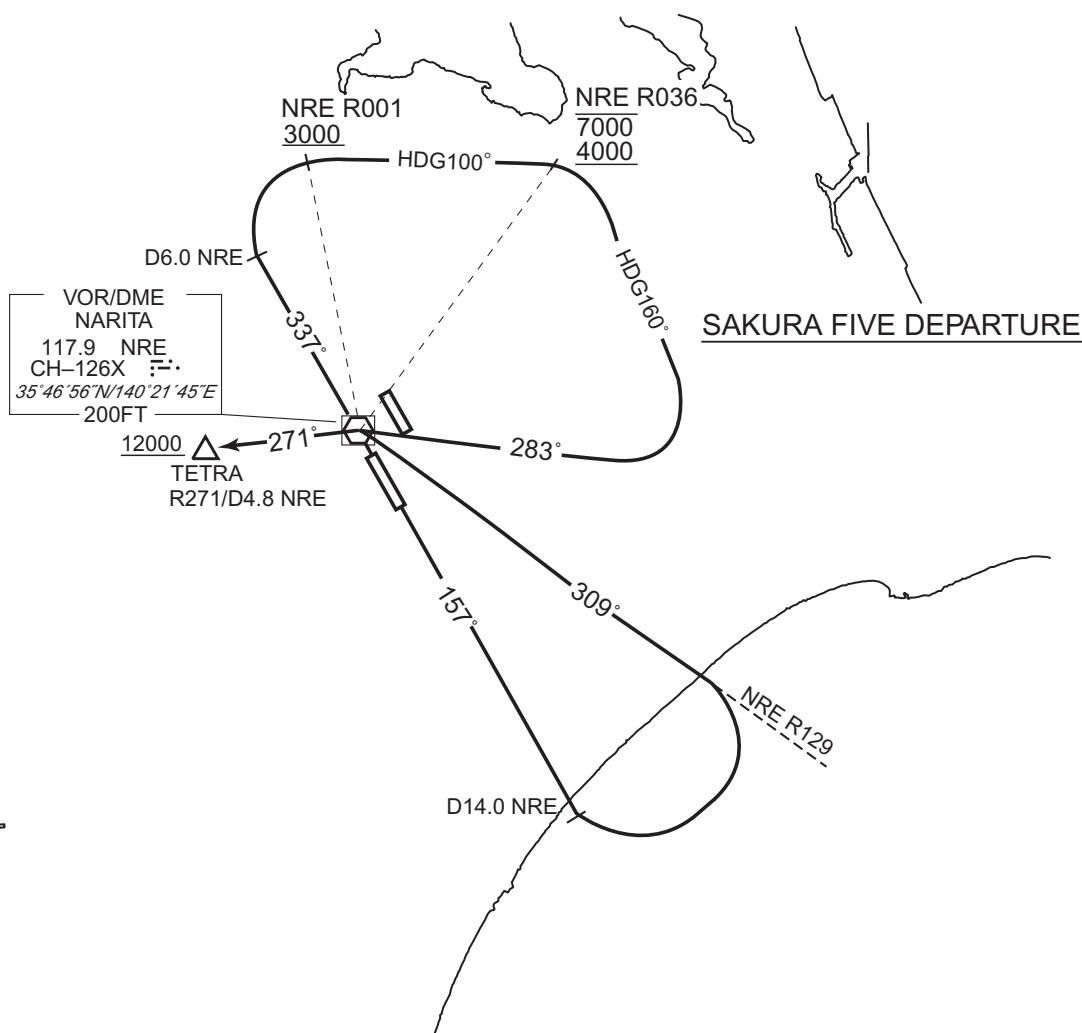
RWY 16R : Climb via NRE R157 to 14.0DME, turn left to intercept and proceed via NRE R129 to NRE VOR/DME, via NRE R271 to TETRA.
Cross TETRA at or above 12000FT.

RWY 16L : (Not established)

RWY 34L : Climb via NRE R337 to 6.0DME, turn right HDG100° until crossing NRE R036, turn right HDG160° to intercept and proceed via NRE R103 to NRE VOR/DME, via NRE R271 to TETRA.
Cross NRE R001 at or above 3000FT,
cross NRE R036 between 4000FT and 7000FT,
cross TETRA at or above 12000FT.

RWY 34R : (Not established)

CHANGE : PROC renamed. PROC FM RWY 16L/34R abolished. HOKUSO VOR/DME(HKE) abolished.



STANDARD DEPARTURE CHART -INSTRUMENT

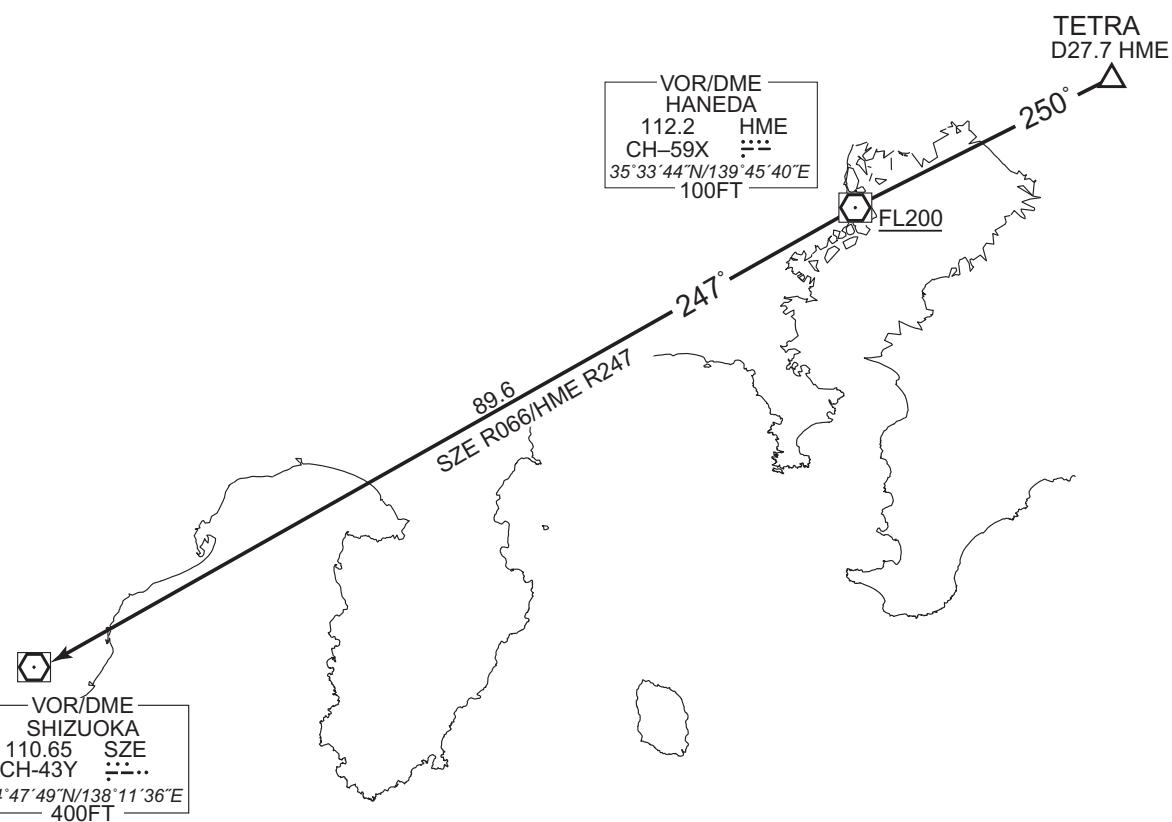
RJAA / NARITA INTL

TRANSITION

SHIZUOKA TRANSITION

From over TETRA, via HME R070 to HME VOR/DME, via HME R247/SZE R066 to SZE VOR/DME.

Cross HME VOR/DME at or above FL200.



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

SID

AKAGI FOUR DEPARTURE

RWY16R : Climb via NRE R157 to 14.0DME, turn right, direct to NRE VOR/DME, via NRE R326 to AKAGI via LOPIA and YAOKO.

Cross LOPIA at or above 12000FT, cross YAOKO at or above FL180.

RWY16L : (Not established)

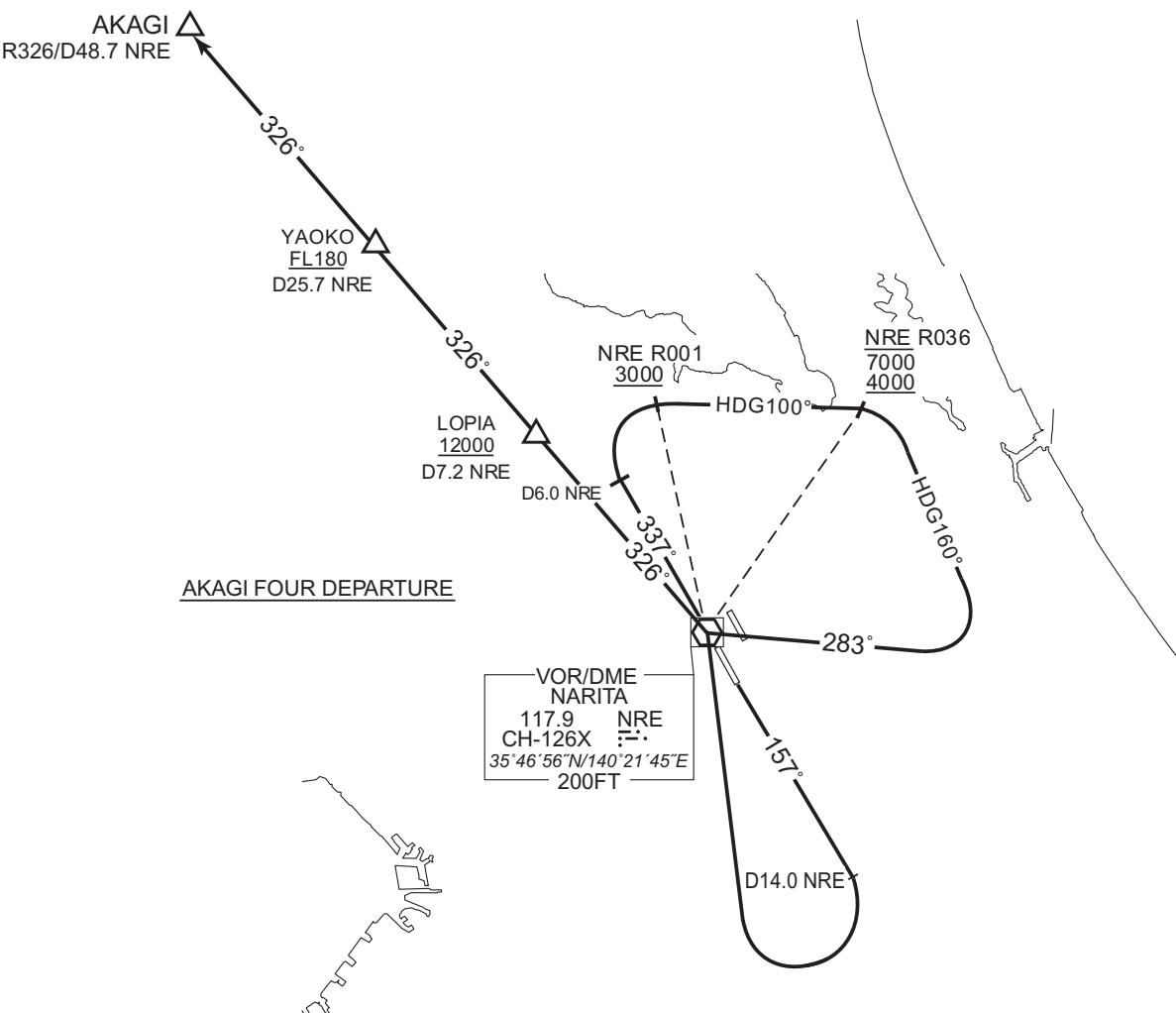
RWY34L : Climb via NRE R337 to 6.0DME, turn right HDG100° until crossing NRE R036, turn right HDG160° to intercept and proceed via NRE R103 to NRE VOR/DME, via NRE R326 to AKAGI via LOPIA and YAOKO.

Cross NRE R001 at or above 3000FT,
cross NRE R036 between 4000FT and 7000FT,

cross LOPIA at or above 12000FT, cross YAOKO at or above FL180.

RWY34R : (Not established)

CHANGE : PROC renamed. PROC FM RWY 16L/34R abolished. HOKUSO VOR/DME(HKE) abolished.



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

SID

SUNNS TWO DEPARTURE

RWY16R : Climb via NRE R157 to 14.0DME, turn left HDG108° to intercept and proceed via NRE R138 to SUNNS via ROUSY.

Cross ROUSY at or above 7000FT, cross SUNNS at or above FL190.

RWY16L : (Not established)

RWY34L : Climb via NRE R337 to 6.0DME, turn right, direct to NRE VOR/DME, via NRE R138 to SUNNS via ROUSY.

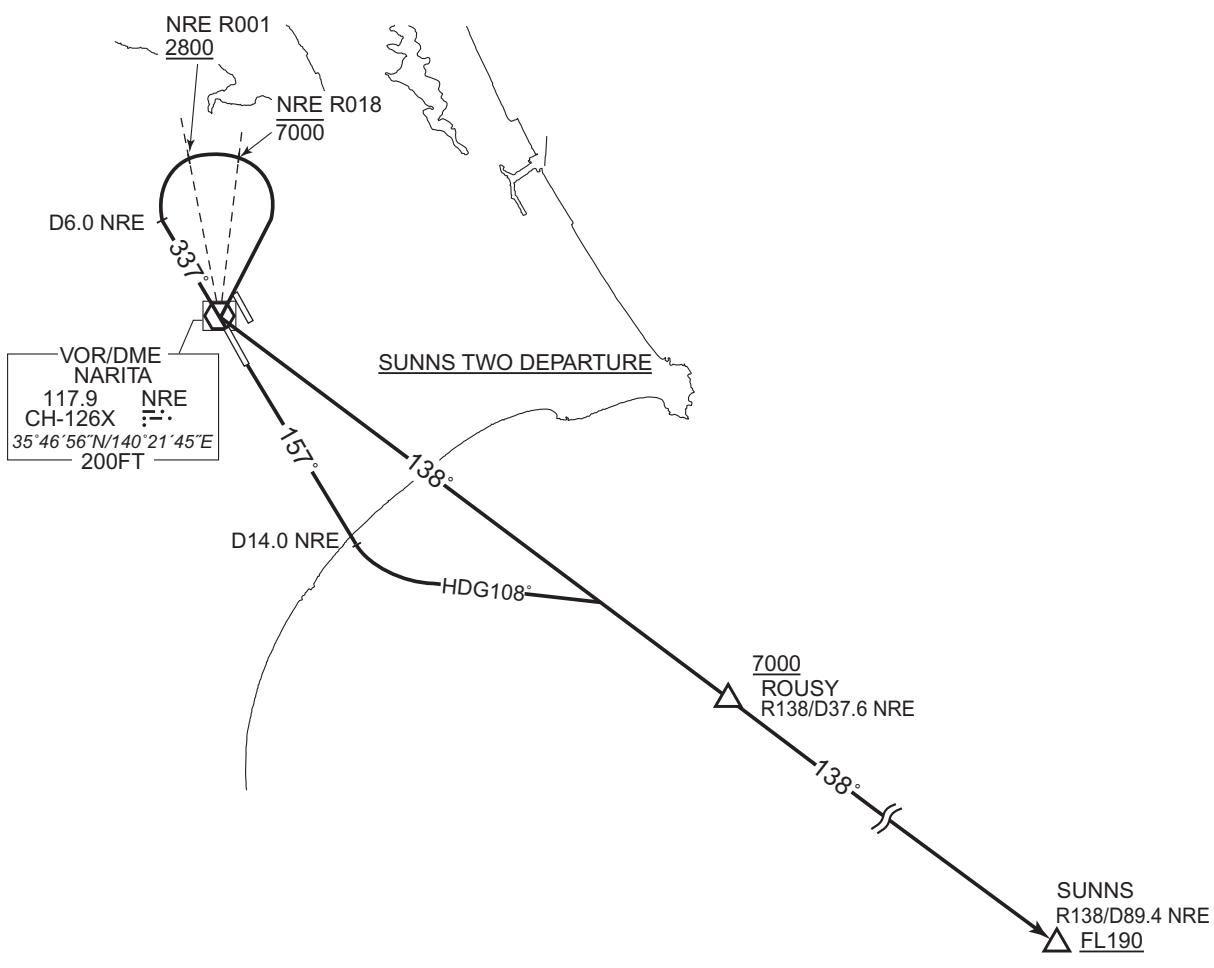
Cross NRE R001 at or above 2800FT,

cross NRE R018 at or below 7000FT,

cross ROUSY at or above 7000FT, cross SUNNS at or above FL190.

RWY34R : (Not established)

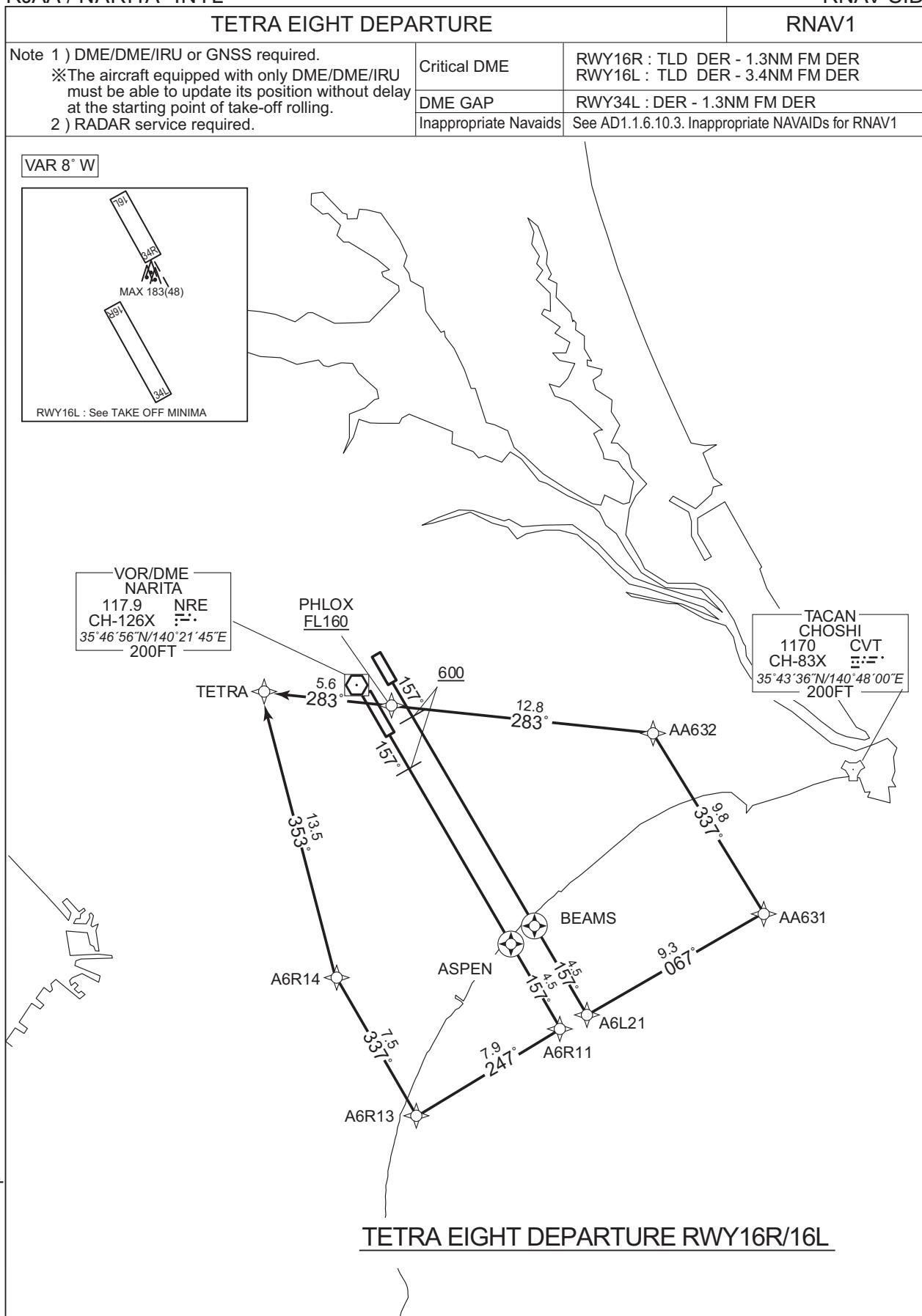
CHANGE : PROC renamed, PROC FM RWY 16L/34R abolished. HOKUSO VOR/DME(HKE) abolished.



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

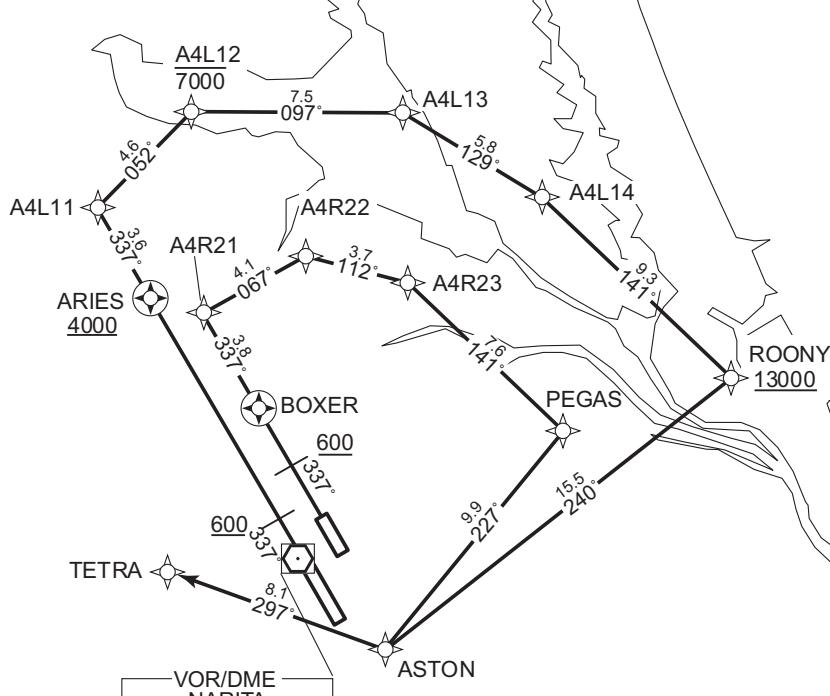


STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

VAR 8° W

TETRA EIGHT DEPARTURE RWY34L/34R

CHANGE : Description of VAR

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

TETRA EIGHT DEPARTURE

RWY16R : Climb on HDG157° at or above 600FT, direct to ASPEN, to A6R11, to A6R13, to A6R14, to TETRA.

RWY16L : Climb on HDG157° at or above 600FT, direct to BEAMS, to A6L21, to AA631, to AA632, to PHLOX at or above FL160, to TETRA.

RWY34L : Climb on HDG337° at or above 600FT, direct to ARIES at or above 4000FT, to A4L11, to A4L12 at or below 7000FT, to A4L13, to A4L14, to ROONY at or above 13000FT, to ASTON, to TETRA.

RWY34R : Climb on HDG337° at or above 600FT, direct to BOXER, to A4R21, to A4R22, to A4R23, to PEGAS, to ASTON, to TETRA.

RWY16R

*MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ASPEN	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6R11	—	157 (149.7)	-7.5	4.5	—	—	—	—	RNAV1
004	TF	A6R13	—	247 (239.5)	-7.5	7.9	—	—	—	—	RNAV1
005	TF	A6R14	—	337 (329.6)	-7.5	7.5	—	—	—	—	RNAV1
006	TF	TETRA	—	353 (345.1)	-7.5	13.5	—	—	—	—	RNAV1

RWY16L

*MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BEAMS	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6L21	—	157 (149.7)	-7.5	4.5	—	—	—	—	RNAV1
004	TF	AA631	—	067 (059.5)	-7.5	9.3	—	—	—	—	RNAV1
005	TF	AA632	—	337 (329.8)	-7.5	9.8	—	—	—	—	RNAV1
006	TF	PHLOX	—	283 (275.3)	-7.5	12.8	—	+FL160	—	—	RNAV1
007	TF	TETRA	—	283 (275.1)	-7.5	5.6	—	—	—	—	RNAV1

CHANGE : ALT1 Restriction on A4R23, PROC renamed.

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

RWY34L

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ARIES	Y	—	-7.5	—	—	+4000	—	—	RNAV1
003	TF	A4L11	—	337 (329.5)	-7.5	3.6	—	—	—	—	RNAV1
004	TF	A4L12	—	052 (044.3)	-7.5	4.6	—	-7000	—	—	RNAV1
005	TF	A4L13	—	097 (089.4)	-7.5	7.5	—	—	—	—	RNAV1
006	TF	A4L14	—	129 (121.2)	-7.5	5.8	—	—	—	—	RNAV1
007	TF	ROONY	—	141 (133.2)	-7.5	9.3	—	+13000	—	—	RNAV1
008	TF	ASTON	—	240 (232.1)	-7.5	15.5	—	—	—	—	RNAV1
009	TF	TETRA	—	297 (289.5)	-7.5	8.1	—	—	—	—	RNAV1

RWY34R

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BOXER	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A4R21	—	337 (329.6)	-7.5	3.8	—	—	—	—	RNAV1
004	TF	A4R22	—	067 (059.3)	-7.5	4.1	—	—	—	—	RNAV1
005	TF	A4R23	—	112 (104.6)	-7.5	3.7	—	—	—	—	RNAV1
006	TF	PEGAS	—	141 (133.4)	-7.5	7.6	—	—	—	—	RNAV1
007	TF	ASTON	—	227 (219.2)	-7.5	9.9	—	—	—	—	RNAV1
008	TF	TETRA	—	297 (289.5)	-7.5	8.1	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
A4L11	355915.6N / 1401249.1E	AA631	353619.9N / 1404431.9E
A4L12	360232.6N / 1401646.8E	AA632	354446.7N / 1403828.9E
A4L13	360236.7N / 1402559.7E	ARIES	355607.4N / 1401505.9E
A4L14	355937.8N / 1403205.0E	ASPEN	353451.0N / 1403028.1E
A4R21	355529.4N / 1401729.2E	ASTON	354344.6N / 1402518.6E
A4R22	355734.5N / 1402150.1E	BEAMS	353533.0N / 1403153.1E
A4R23	355638.8N / 1402614.7E	BOXER	355213.0N / 1401951.6E
A6L21	353137.9N / 1403441.9E	PEGAS	355126.3N / 1403302.1E
A6R11	353056.9N / 1403316.2E	PHLOX	354556.6N / 1402246.1E
A6R13	352654.9N / 1402452.6E	ROONY	355317.4N / 1404024.4E
A6R14	353324.7N / 1402011.9E	TETRA	354626.4N / 1401555.8E

CHANGE : Update

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV TRANSITION

AGRIS TRANSITION /KIMIN TRANSITION / ENPAR TRANSITION

RNAV1

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

Critical DME

-

DME GAP

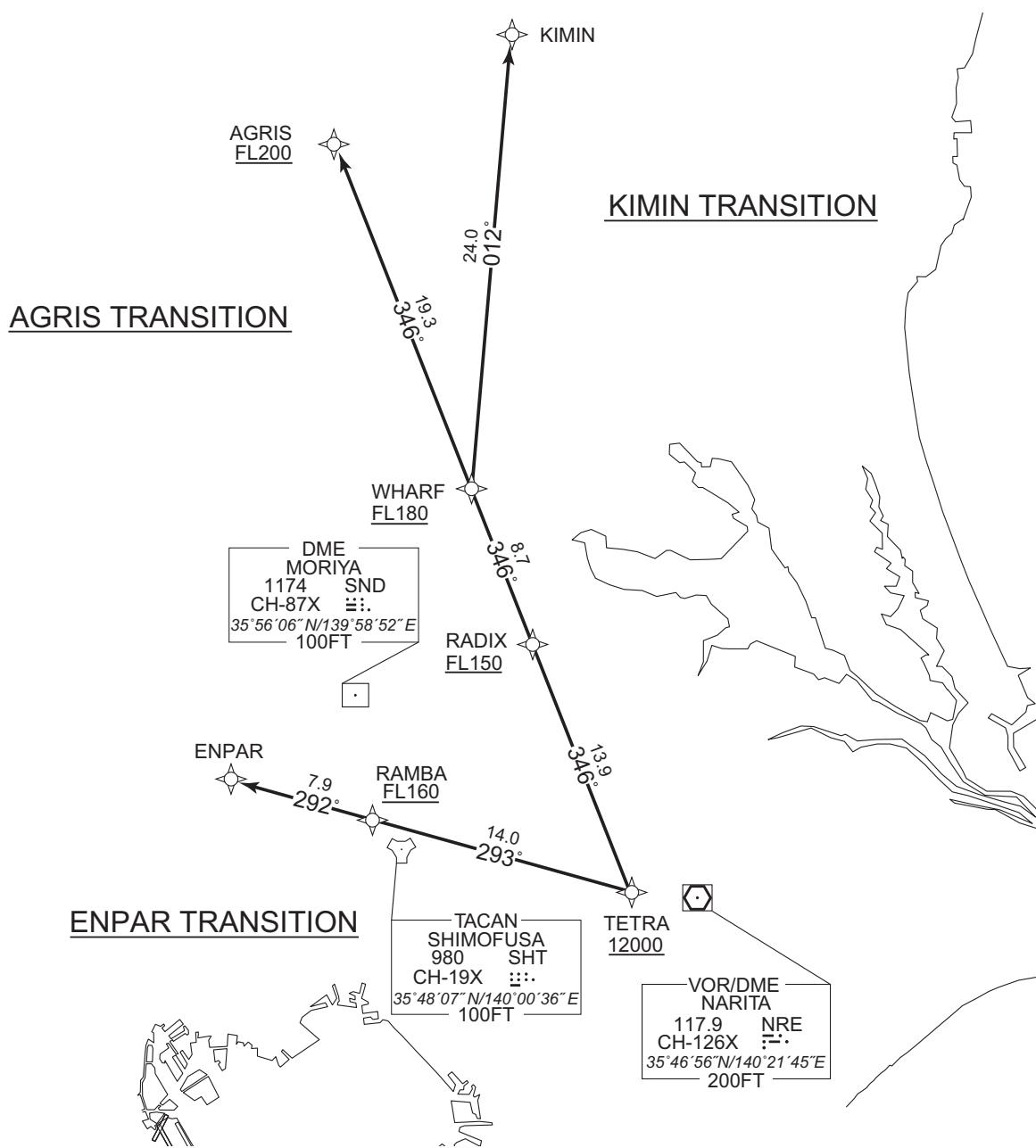
-

2) RADAR service required.

Inappropriate
Navaids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

VAR8°W



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV TRANSITION

AGRIS TRANSITION

From TETRA at or above 12000FT, to RADIX at or above FL150, to WHARF at or above FL180, to AGRIS at or above FL200.

Serial Number	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	TETRA	—	—	-7.5	—	—	+12000	—	—	RNAV1
002	TF	RADIX	—	346 (338.1)	-7.5	13.9	—	+FL150	—	—	RNAV1
003	TF	WHARF	—	346 (338.1)	-7.5	8.7	—	+FL180	—	—	RNAV1
004	TF	AGRIS	—	346 (338.0)	-7.5	19.3	—	+FL200	—	—	RNAV1

KIMIN TRANSITION

From TETRA at or above 12000FT, to RADIX at or above FL150, to WHARF at or above FL180, to KIMIN.

Serial Number	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	TETRA	—	—	-7.5	—	—	+12000	—	—	RNAV1
002	TF	RADIX	—	346 (338.1)	-7.5	13.9	—	+FL150	—	—	RNAV1
003	TF	WHARF	—	346 (338.1)	-7.5	8.7	—	+FL180	—	—	RNAV1
004	TF	KIMIN	—	012 (004.1)	-7.5	24.0	—	—	—	—	RNAV1

ENPAR TRANSITION

From TETRA at or above 12000FT, to RAMBA at or above FL160, to ENPAR.

Serial Number	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	TETRA	—	—	-7.5	—	—	+12000	—	—	RNAV1
002	TF	RAMBA	—	293 (285.1)	-7.5	14.0	—	+FL160	—	—	RNAV1
003	TF	ENPAR	—	292 (284.9)	-7.5	7.9	—	—	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AGRIS	362514.7N / 1395633.1E	RAMBA	355003.7N / 1395917.7E
ENPAR	355205.2N / 1394954.3E	TETRA	354626.4N / 1401555.8E
KIMIN	363119.5N / 1400738.2E	WHARF	360722.6N / 1400531.1E
RADIX	355917.2N / 1400933.2E		

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

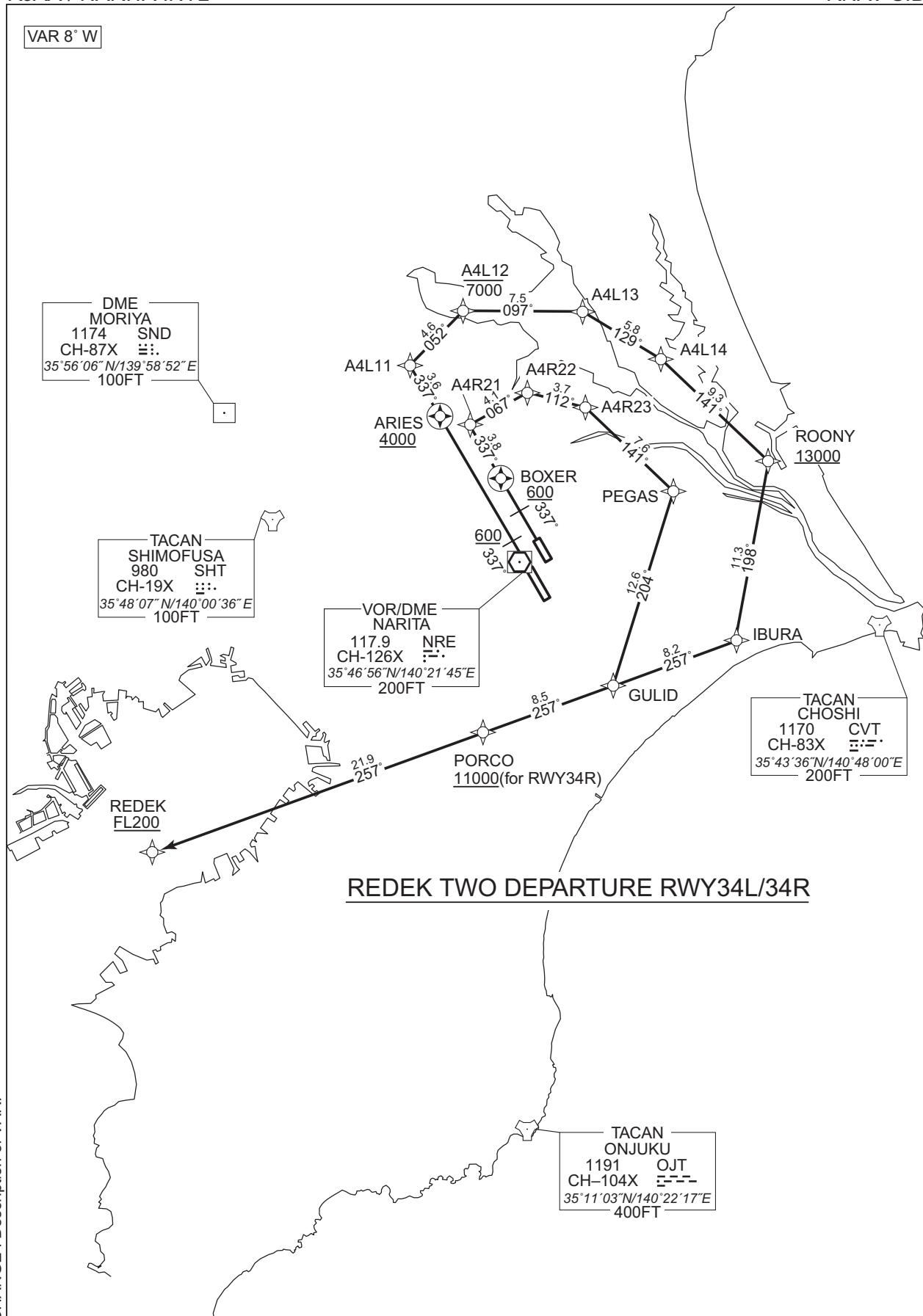
RNAV SID

REDEK TWO DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.	Critical DME	RWY16R:TLD DER – 1.3NM FM DER RWY16L :TLD DER – 3.4NM FM DER
	DME GAP	RWY34L :DER – 1.3NM FM DER
	Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1
<p>VAR 8° W</p> <p>MAX 183(48)</p> <p>RWY16L : See TAKE OFF MINIMA</p> <p>TACAN SHIMOFUSA 980 SHT CH-19X 35°48'07"N/140°00'36"E 100FT</p> <p>VOR/DME NARITA 117.9 NRE CH-126X 35°46'56"N/140°21'45"E 200FT</p> <p>TACAN CHOSHI 1170 CVT CH-83X 35°43'36"N/140°48'00"E 200FT</p> <p>REDEK FL200</p> <p>REDEK TWO DEPARTURE RWY16R/16L</p> <p>TACAN ONJUKU 1191 OJT CH-104X 35°11'03"N/140°22'17"E 400FT</p> <p>CHANGE : Description of VAR.</p>		

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

REDEK TWO DEPARTURE

RWY16R : Climb on HDG 157° at or above 600FT, direct to ASPEN, to A6R12, to KUJYU at or above 11000FT, to REDEK at or above FL200.

RWY16L : Climb on HDG 157° at or above 600FT, direct to BEAMS, to A6L21, to AA631, to AA632, to ACURE, to PAGOT at or above FL160, to REDEK at or above FL200.

RWY34L : Climb on HDG 337° at or above 600FT, direct to ARIES at or above 4000FT, to A4L11, to A4L12 at or below 7000FT, to A4L13, to A4L14, to ROONY at or above 13000FT, to IBURA, to GULID, to PORCO, to REDEK at or above FL200.

RWY34R : Climb on HDG 337° at or above 600FT, direct to BOXER, to A4R21, to A4R22, to A4R23, to PEGAS, to GULID, to PORCO at or above 11000FT, to REDEK at or above FL200.

RWY16R *MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ASPEN	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6R12	—	157 (149.7)	-7.5	10.6	—	—	—	—	RNAV1
004	TF	KUJYU	—	247 (239.5)	-7.5	9.2	—	+11000	—	—	RNAV1
005	TF	REDEK	—	293 (285.7)	-7.5	28.6	—	+FL200	—	—	RNAV1

RWY16L *MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BEAMS	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6L21	—	157 (149.7)	-7.5	4.5	—	—	—	—	RNAV1
004	TF	AA631	—	067 (059.5)	-7.5	9.3	—	—	—	—	RNAV1
005	TF	AA632	—	337 (329.8)	-7.5	9.8	—	—	—	—	RNAV1
006	TF	ACURE	—	283 (275.3)	-7.5	8.9	—	—	—	—	RNAV1
007	TF	PAGOT	—	232 (224.1)	-7.5	6.9	—	+FL160	—	—	RNAV1
008	TF	REDEK	—	250 (242.6)	-7.5	25.8	—	+FL200	—	—	RNAV1

CHANGE : ALT Restriction on A4R23. PROC renamed.

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

RWY34L

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ARIES	Y	—	-7.5	—	—	+4000	—	—	RNAV1
003	TF	A4L11	—	337 (329.5)	-7.5	3.6	—	—	—	—	RNAV1
004	TF	A4L12	—	052 (044.3)	-7.5	4.6	—	-7000	—	—	RNAV1
005	TF	A4L13	—	097 (089.4)	-7.5	7.5	—	—	—	—	RNAV1
006	TF	A4L14	—	129 (121.2)	-7.5	5.8	—	—	—	—	RNAV1
007	TF	ROONY	—	141 (133.2)	-7.5	9.3	—	+13000	—	—	RNAV1
008	TF	IBURA	—	198 (190.0)	-7.5	11.3	—	—	—	—	RNAV1
009	TF	GULID	—	257 (249.8)	-7.5	8.2	—	—	—	—	RNAV1
010	TF	PORCO	—	257 (249.7)	-7.5	8.5	—	—	—	—	RNAV1
011	TF	REDEK	—	257 (249.6)	-7.5	21.9	—	+FL200	—	—	RNAV1

RWY34R

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BOXER	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A4R21	—	337 (329.6)	-7.5	3.8	—	—	—	—	RNAV1
004	TF	A4R22	—	067 (059.3)	-7.5	4.1	—	—	—	—	RNAV1
005	TF	A4R23	—	112 (104.6)	-7.5	3.7	—	—	—	—	RNAV1
006	TF	PEGAS	—	141 (133.4)	-7.5	7.6	—	—	—	—	RNAV1
007	TF	GULID	—	204 (196.9)	-7.5	12.6	—	—	—	—	RNAV1
008	TF	PORCO	—	257 (249.7)	-7.5	8.5	—	+11000	—	—	RNAV1
009	TF	REDEK	—	257 (249.6)	-7.5	21.9	—	+FL200	—	—	RNAV1

CHANGE : ALT Restriction on A4R23.

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

Waypoint Coordinates

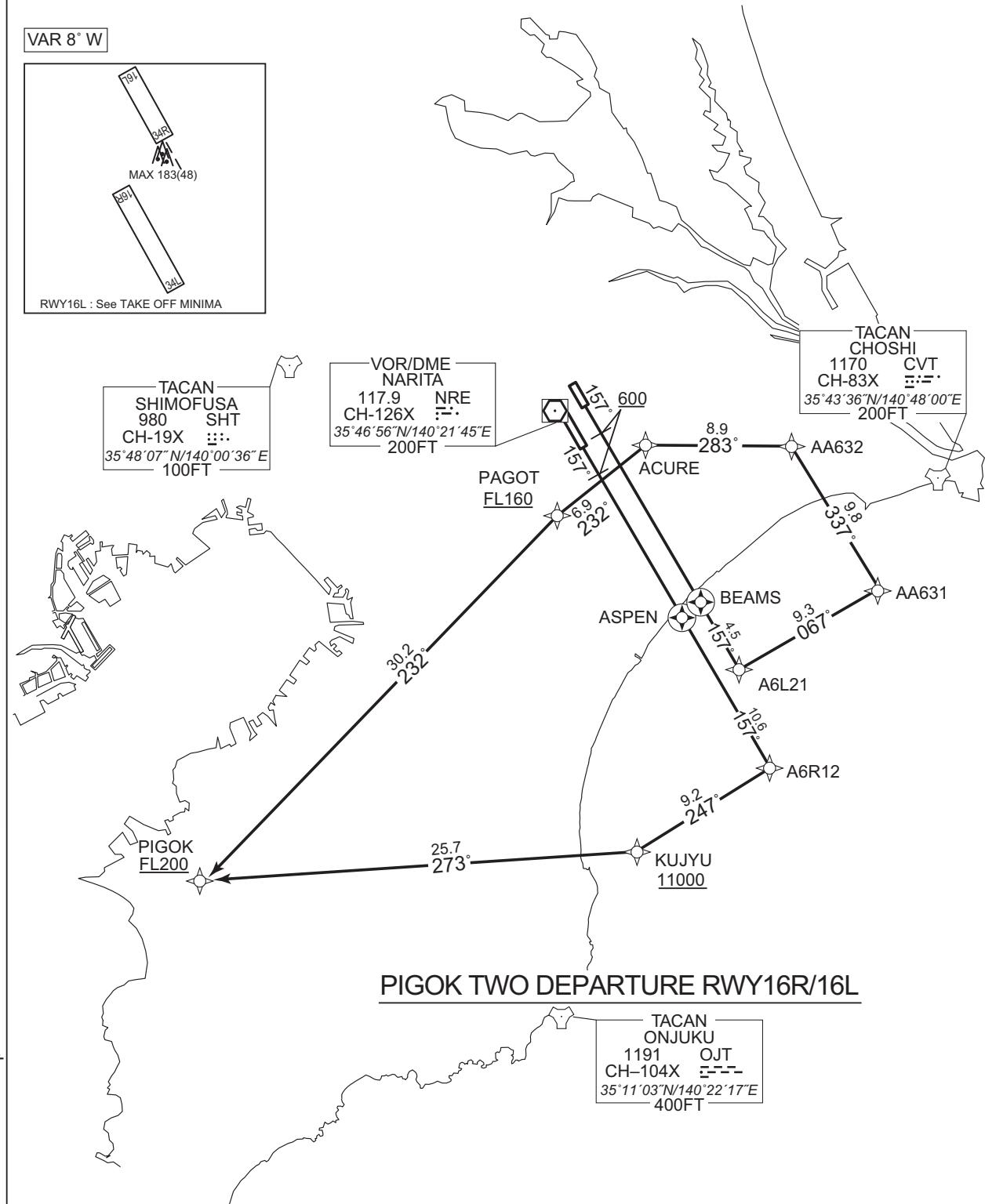
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
A4L11	355915.6N / 1401249.1E	ARIES	355607.4N / 1401505.9E
A4L12	360232.6N / 1401646.8E	ASPEN	353451.0N / 1403028.1E
A4L13	360236.7N / 1402559.7E	BEAMS	353533.0N / 1403153.1E
A4L14	355937.8N / 1403205.0E	BOXER	355213.0N / 1401951.6E
A4R21	355529.4N / 1401729.2E	GULID	353921.3N / 1402830.3E
A4R22	355734.5N / 1402150.1E	IBURA	354212.1N / 1403759.5E
A4R23	355638.8N / 1402614.7E	KUJYU	352104.0N / 1402719.8E
A6L21	353137.9N / 1403441.9E	PAGOT	354039.6N / 1402139.4E
A6R12	352543.5N / 1403700.7E	PORCO	353624.3N / 1401843.5E
AA631	353619.9N / 1404431.9E	PEGAS	355126.3N / 1403302.1E
AA632	354446.7N / 1403828.9E	REDEK	352844.1N / 1395333.8E
ACURE	354535.6N / 1402732.3E	ROONY	355317.4N / 1404024.4E

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

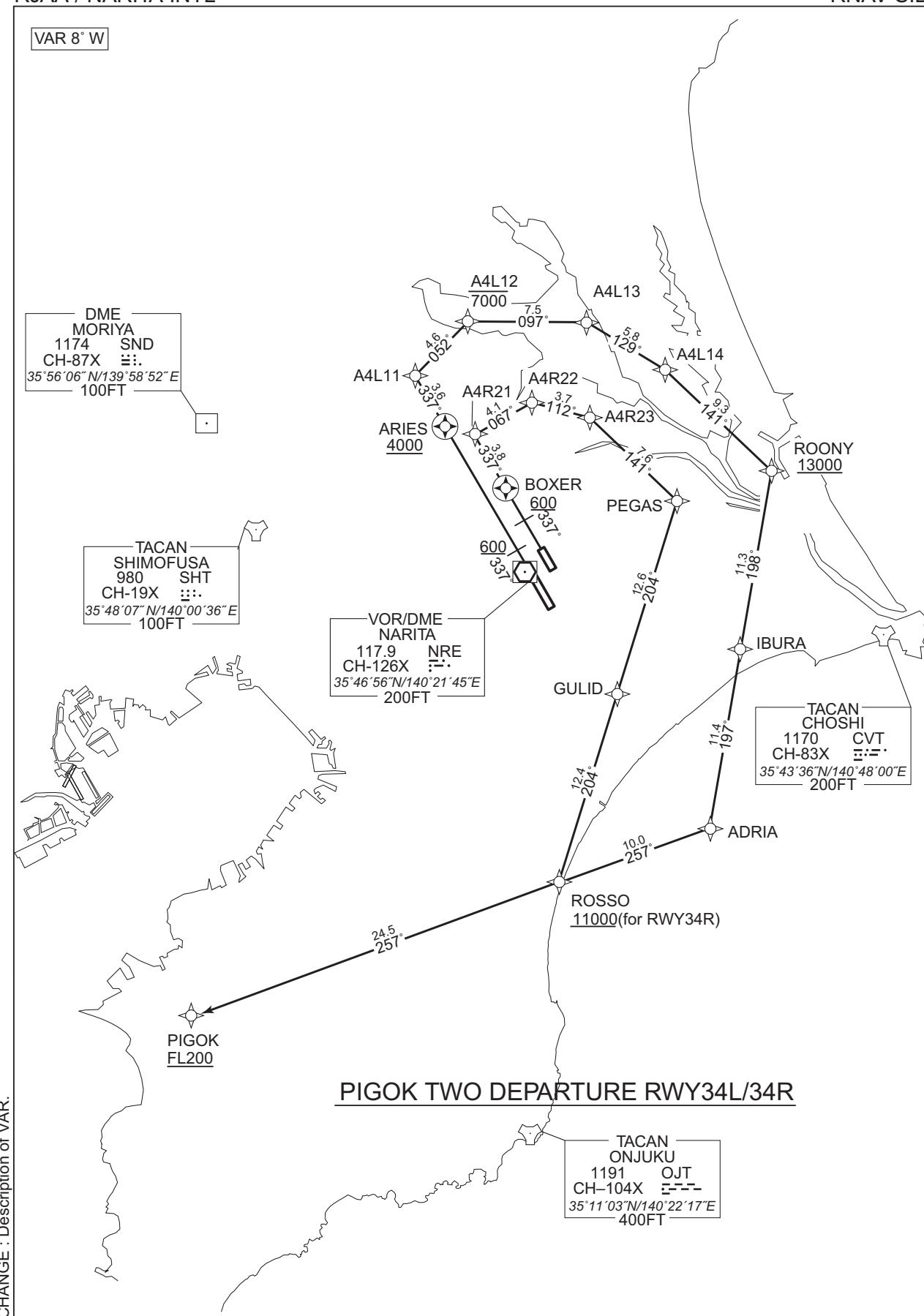
PIGOK TWO DEPARTURE		RNAV1
<p>Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.</p>	Critical DME	RWY16R:TLD DER – 1.3NM FM DER RWY16L:TLD DER – 3.4NM FM DER
	DME GAP	RWY34L :DER – 1.3NM FM DER
	Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

PIGOK TWO DEPARTURE

RWY16R : Climb on HDG 157° at or above 600FT, direct to ASPEN, to A6R12, to KUJYU at or above 11000FT, to PIGOK at or above FL200.

RWY16L : Climb on HDG 157° at or above 600FT, direct to BEAMS, to A6L21, to AA631, to AA632, to ACURE, to PAGOT at or above FL160, to PIGOK at or above FL200.

RWY34L : Climb on HDG 337° at or above 600FT, direct to ARIES at or above 4000FT, to A4L11, to A4L12 at or below 7000FT, to A4L13, to A4L14, to ROONY at or above 13000FT, to IBURA, to ADRIA, to ROSSO, to PIGOK at or above FL200.

RWY34R : Climb on HDG 337° at or above 600FT, direct to BOXER, to A4R21, to A4R22, to A4R23, to PEGAS, to GULID, to ROSSO at or above 11000FT, to PIGOK at or above FL200.

RWY16R

*MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ASPEN	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6R12	—	157 (149.7)	-7.5	10.6	—	—	—	—	RNAV1
004	TF	KUJYU	—	247 (239.5)	-7.5	9.2	—	+11000	—	—	RNAV1
005	TF	PIGOK	—	273 (265.3)	-7.5	25.7	—	+FL200	—	—	RNAV1

RWY16L

*MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BEAMS	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6L21	—	157 (149.7)	-7.5	4.5	—	—	—	—	RNAV1
004	TF	AA631	—	067 (059.5)	-7.5	9.3	—	—	—	—	RNAV1
005	TF	AA632	—	337 (329.8)	-7.5	9.8	—	—	—	—	RNAV1
006	TF	ACURE	—	283 (275.3)	-7.5	8.9	—	—	—	—	RNAV1
007	TF	PAGOT	—	232 (224.1)	-7.5	6.9	—	+FL160	—	—	RNAV1
008	TF	PIGOK	—	232 (224.0)	-7.5	30.2	—	+FL200	—	—	RNAV1

CHANGE : ALT Restriction on A4R23. PROC renamed.

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

RWY34L

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ARIES	Y	—	-7.5	—	—	+4000	—	—	RNAV1
003	TF	A4L11	—	337 (329.5)	-7.5	3.6	—	—	—	—	RNAV1
004	TF	A4L12	—	052 (044.3)	-7.5	4.6	—	-7000	—	—	RNAV1
005	TF	A4L13	—	097 (089.4)	-7.5	7.5	—	—	—	—	RNAV1
006	TF	A4L14	—	129 (121.2)	-7.5	5.8	—	—	—	—	RNAV1
007	TF	ROONY	—	141 (133.2)	-7.5	9.3	—	+13000	—	—	RNAV1
008	TF	IBURA	—	198 (190.0)	-7.5	11.3	—	—	—	—	RNAV1
009	TF	ADRIA	—	197 (189.9)	-7.5	11.4	—	—	—	—	RNAV1
010	TF	ROSSO	—	257 (249.8)	-7.5	10.0	—	—	—	—	RNAV1
011	TF	PIGOK	—	257 (249.6)	-7.5	24.5	—	+FL200	—	—	RNAV1

RWY34R

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BOXER	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A4R21	—	337 (329.6)	-7.5	3.8	—	—	—	—	RNAV1
004	TF	A4R22	—	067 (059.3)	-7.5	4.1	—	—	—	—	RNAV1
005	TF	A4R23	—	112 (104.6)	-7.5	3.7	—	—	—	—	RNAV1
006	TF	PEGAS	—	141 (133.4)	-7.5	7.6	—	—	—	—	RNAV1
007	TF	GULID	—	204 (196.9)	-7.5	12.6	—	—	—	—	RNAV1
008	TF	ROSSO	—	204 (196.9)	-7.5	12.4	—	+11000	—	—	RNAV1
009	TF	PIGOK	—	257 (249.6)	-7.5	24.5	—	+FL200	—	—	RNAV1

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
A4L11	355915.6N / 1401249.1E	ARIES	355607.4N / 1401505.9E
A4L12	360232.6N / 1401646.8E	ASPEN	353451.0N / 1403028.1E
A4L13	360236.7N / 1402559.7E	BEAMS	353533.0N / 1403153.1E
A4L14	355937.8N / 1403205.0E	BOXER	355213.0N / 1401951.6E
A4R21	355529.4N / 1401729.2E	GULID	353921.3N / 1402830.3E
A4R22	355734.5N / 1402150.1E	IBURA	354212.1N / 1403759.5E
A4R23	355638.8N / 1402614.7E	KUJYU	352104.0N / 1402719.8E
A6L21	353137.9N / 1403441.9E	PAGOT	354039.6N / 1402139.4E
A6R12	352543.5N / 1403700.7E	PEGAS	355126.3N / 1403302.1E
AA631	353619.9N / 1404431.9E	PIGOK	351854.3N / 1395555.6E
AA632	354446.7N / 1403828.9E	ROONY	355317.4N / 1404024.4E
ACURE	354535.6N / 1402732.3E	ROSSO	352729.0N / 1402404.4E
ADRIA	353056.8N / 1403534.3E		

CHANGE : New PROC

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

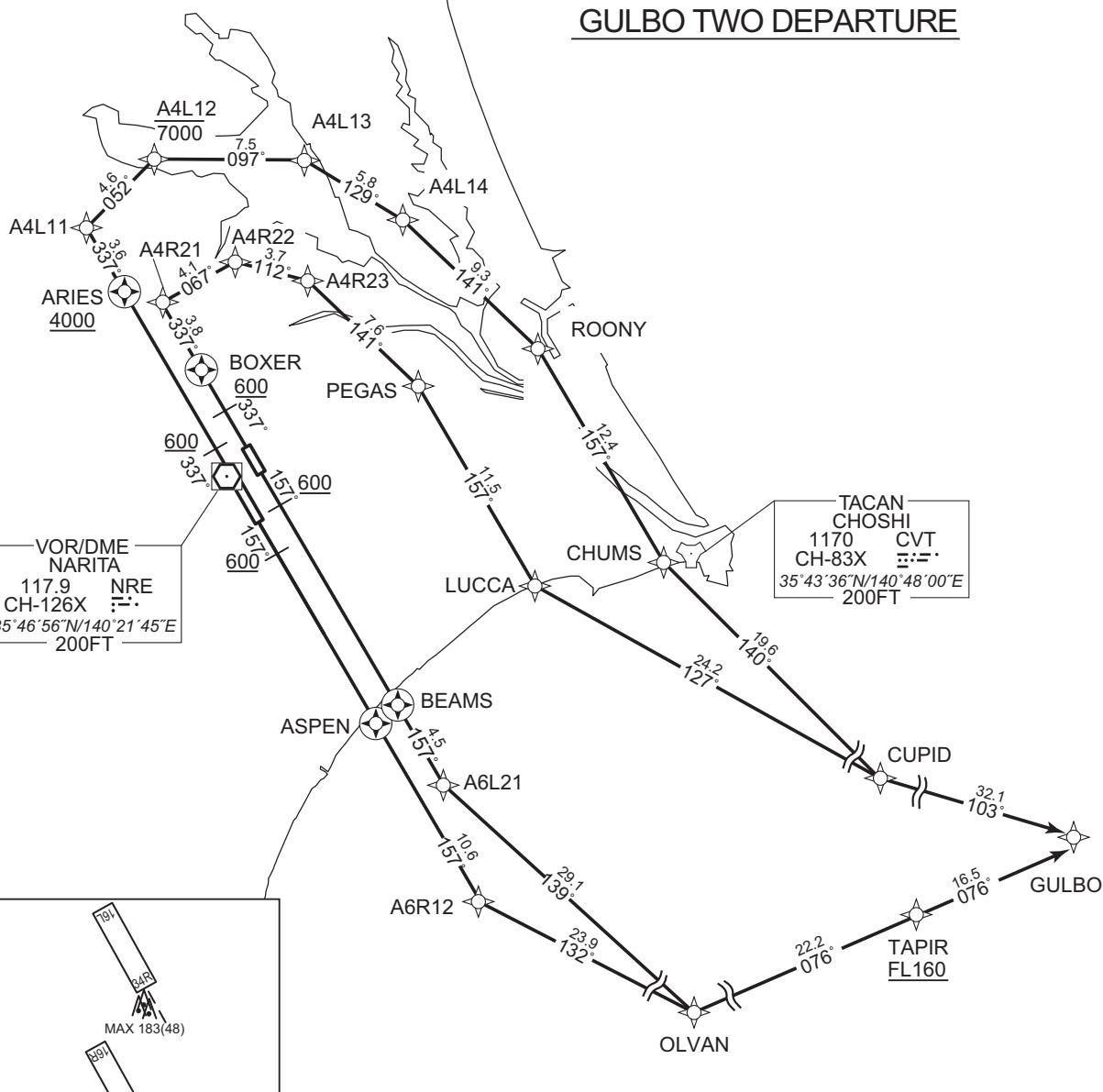
GULBO TWO DEPARTURE

RNAV1

Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.	Critical DME	RWY16R:TLD DER – 1.3NM FM DER RWY16L:TLD DER – 3.4NM FM DER
	DME GAP	RWY34L :DER – 1.3NM FM DER
	Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

VAR 8° W

GULBO TWO DEPARTURE



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

GULBO TWO DEPARTURE

RWY16R : Climb on HDG 157° at or above 600FT, direct to ASPEN, to A6R12, to OLVAN, to TAPIR at or above FL160, to GULBO.

RWY16L : Climb on HDG 157° at or above 600FT, direct to BEAMS, to A6L21, to OLVAN, to TAPIR at or above FL160, to GULBO.

RWY34L : Climb on HDG 337° at or above 600FT, direct to ARIES at or above 4000FT, to A4L11, to A4L12 at or below 7000FT, to A4L13, to A4L14, to ROONY, to CHUMS, to CUPID, to GULBO.

RWY34R : Climb on HDG 337° at or above 600FT, direct to BOXER, to A4R21, to A4R22, to A4R23, to PEGAS, to LUCCA, to CUPID, to GULBO.

RWY16R

*MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ASPEN	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6R12	—	157 (149.7)	-7.5	10.6	—	—	—	—	RNAV1
004	TF	OLVAN	—	132 (124.2)	-7.5	23.9	—	—	—	—	RNAV1
005	TF	TAPIR	—	076 (068.0)	-7.5	22.2	—	+FL160	—	—	RNAV1
006	TF	GULBO	—	076 (068.3)	-7.5	16.5	—	—	—	—	RNAV1

RWY16L

*MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BEAMS	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6L21	—	157 (149.7)	-7.5	4.5	—	—	—	—	RNAV1
004	TF	OLVAN	—	139 (131.8)	-7.5	29.1	—	—	—	—	RNAV1
005	TF	TAPIR	—	076 (068.0)	-7.5	22.2	—	+FL160	—	—	RNAV1
006	TF	GULBO	—	076 (068.3)	-7.5	16.5	—	—	—	—	RNAV1

CHANGE : ALT Restriction on A4R23. PROC renamed.

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

RWY34L

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ARIES	Y	—	-7.5	—	—	+4000	—	—	RNAV1
003	TF	A4L11	—	337 (329.5)	-7.5	3.6	—	—	—	—	RNAV1
004	TF	A4L12	—	052 (044.3)	-7.5	4.6	—	-7000	—	—	RNAV1
005	TF	A4L13	—	097 (089.4)	-7.5	7.5	—	—	—	—	RNAV1
006	TF	A4L14	—	129 (121.2)	-7.5	5.8	—	—	—	—	RNAV1
007	TF	ROONY	—	141 (133.2)	-7.5	9.3	—	—	—	—	RNAV1
008	TF	CHUMS	—	157 (149.7)	-7.5	12.4	—	—	—	—	RNAV1
009	TF	CUPID	—	140 (132.0)	-7.5	19.6	—	—	—	—	RNAV1
010	TF	GULBO	—	103 (095.1)	-7.5	32.1	—	—	—	—	RNAV1

RWY34R

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BOXER	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A4R21	—	337 (329.6)	-7.5	3.8	—	—	—	—	RNAV1
004	TF	A4R22	—	067 (059.3)	-7.5	4.1	—	—	—	—	RNAV1
005	TF	A4R23	—	112 (104.6)	-7.5	3.7	—	—	—	—	RNAV1
006	TF	PEGAS	—	141 (133.4)	-7.5	7.6	—	—	—	—	RNAV1
007	TF	LUCCA	—	157 (149.6)	-7.5	11.5	—	—	—	—	RNAV1
008	TF	CUPID	—	127 (119.8)	-7.5	24.2	—	—	—	—	RNAV1
009	TF	GULBO	—	103 (095.1)	-7.5	32.1	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
A4L11	355915.6N / 1401249.1E	BEAMS	353533.0N / 1403153.1E
A4L12	360232.6N / 1401646.8E	BOXER	355213.0N / 1401951.6E
A4L13	360236.7N / 1402559.7E	CHUMS	354237.0N / 1404806.0E
A4L14	355937.8N / 1403205.0E	CUPID	352930.3N / 1410557.3E
A4R21	355529.4N / 1401729.2E	GULBO	352632.9N / 1414509.6E
A4R22	355734.5N / 1402150.1E	LUCCA	354132.8N / 1404011.4E
A4R23	355638.8N / 1402614.7E	OLVAN	351214.1N / 1410111.3E
A6L21	353137.9N / 1403441.9E	PEGAS	355126.3N / 1403302.1E
A6R12	352543.5N / 1403700.7E	ROONY	355317.4N / 1404024.4E
ARIES	355607.4N / 1401505.9E	TAPIR	352028.5N / 1412621.9E
ASPEN	353451.0N / 1403028.1E		

CHANGE : New PROC

STANDARD DEPARTURE CHART -INSTRUMENT

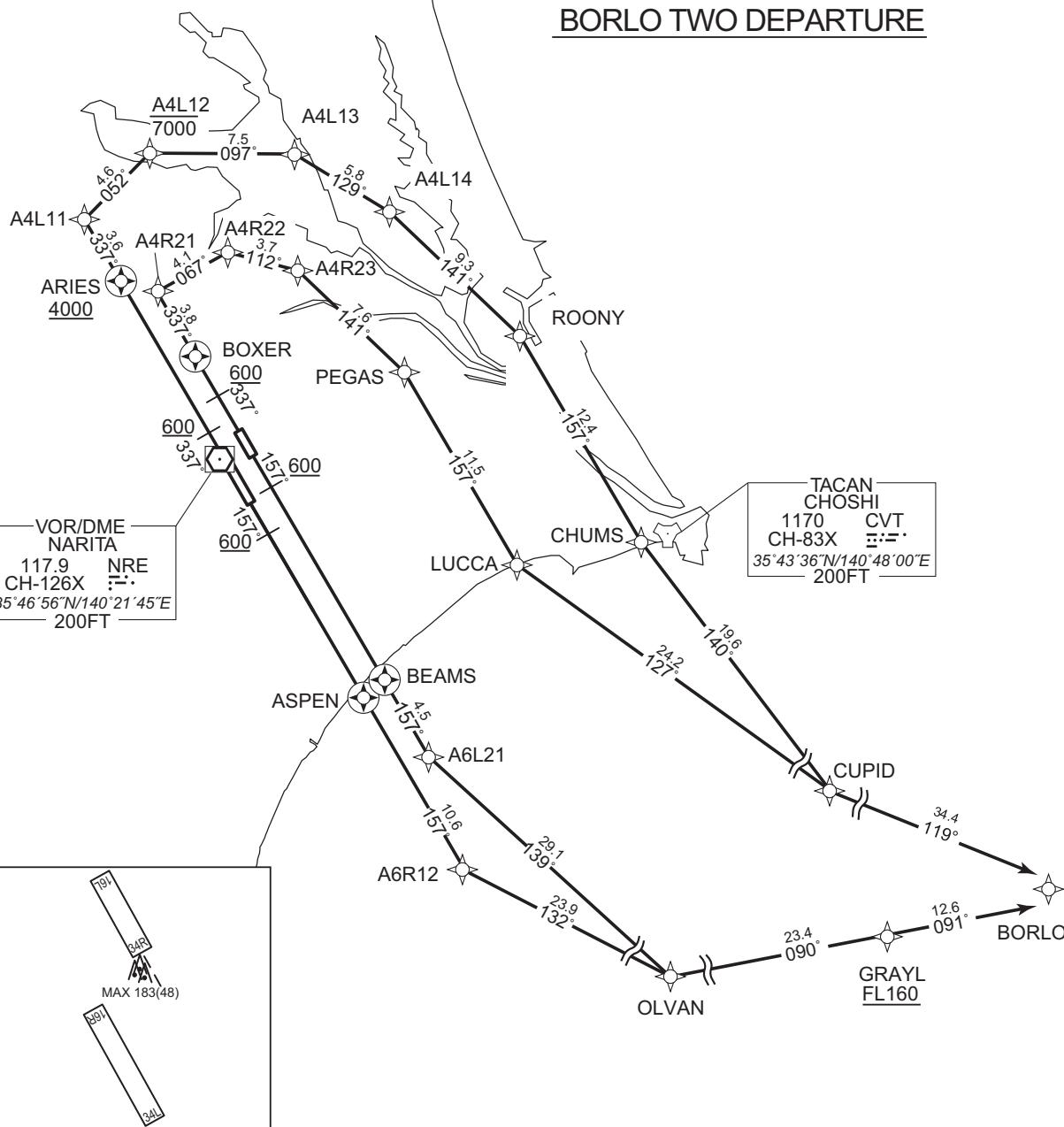
RJAA / NARITA INTL

RNAV SID

BORLO TWO DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.	Critical DME	RWY16R:TLD DER – 1.3NM FM DER RWY16L:TLD DER – 3.4NM FM DER
	DME GAP	RWY34L :DER – 1.3NM FM DER
	Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

VAR 8° W

BORLO TWO DEPARTURE



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

BORLO TWO DEPARTURE

RWY16R : Climb on HDG 157° at or above 600FT, direct to ASPEN, to A6R12, to OLVAN, to GRAYL at or above FL160, to BORLO.

RWY16L : Climb on HDG 157° at or above 600FT, direct to BEAMS, to A6L21, to OLVAN, to GRAYL at or above FL160, to BORLO.

RWY34L : Climb on HDG 337° at or above 600FT, direct to ARIES at or above 4000FT, to A4L11, to A4L12 at or below 7000FT, to A4L13, to A4L14, to ROONY, to CHUMS, to CUPID, to BORLO.

RWY34R : Climb on HDG 337° at or above 600FT, direct to BOXER, to A4R21, to A4R22, to A4R23, to PEGAS, to LUCCA, to CUPID, to BORLO.

RWY16R

*MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ASPEN	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6R12	—	157 (149.7)	-7.5	10.6	—	—	—	—	RNAV1
004	TF	OLVAN	—	132 (124.2)	-7.5	23.9	—	—	—	—	RNAV1
005	TF	GRAYL	—	090 (082.9)	-7.5	23.4	—	+FL160	—	—	RNAV1
006	TF	BORLO	—	091 (083.2)	-7.5	12.6	—	—	—	—	RNAV1

RWY16L

*MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BEAMS	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6L21	—	157 (149.7)	-7.5	4.5	—	—	—	—	RNAV1
004	TF	OLVAN	—	139 (131.8)	-7.5	29.1	—	—	—	—	RNAV1
005	TF	GRAYL	—	090 (082.9)	-7.5	23.4	—	+FL160	—	—	RNAV1
006	TF	BORLO	—	091 (083.2)	-7.5	12.6	—	—	—	—	RNAV1

CHANGE : ALT Restriction on A4R23. PROC renamed.

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

RWY34L

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ARIES	Y	—	-7.5	—	—	+4000	—	—	RNAV1
003	TF	A4L11	—	337 (329.5)	-7.5	3.6	—	—	—	—	RNAV1
004	TF	A4L12	—	052 (044.3)	-7.5	4.6	—	-7000	—	—	RNAV1
005	TF	A4L13	—	097 (089.4)	-7.5	7.5	—	—	—	—	RNAV1
006	TF	A4L14	—	129 (121.2)	-7.5	5.8	—	—	—	—	RNAV1
007	TF	ROONY	—	141 (133.2)	-7.5	9.3	—	—	—	—	RNAV1
008	TF	CHUMS	—	157 (149.7)	-7.5	12.4	—	—	—	—	RNAV1
009	TF	CUPID	—	140 (132.0)	-7.5	19.6	—	—	—	—	RNAV1
010	TF	BORLO	—	119 (111.9)	-7.5	34.4	—	—	—	—	RNAV1

RWY34R

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BOXER	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A4R21	—	337 (329.6)	-7.5	3.8	—	—	—	—	RNAV1
004	TF	A4R22	—	067 (059.3)	-7.5	4.1	—	—	—	—	RNAV1
005	TF	A4R23	—	112 (104.6)	-7.5	3.7	—	—	—	—	RNAV1
006	TF	PEGAS	—	141 (133.4)	-7.5	7.6	—	—	—	—	RNAV1
007	TF	LUCCA	—	157 (149.6)	-7.5	11.5	—	—	—	—	RNAV1
008	TF	CUPID	—	127 (119.8)	-7.5	24.2	—	—	—	—	RNAV1
009	TF	BORLO	—	119 (111.9)	-7.5	34.4	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
A4L11	355915.6N / 1401249.1E	BEAMS	353533.0N / 1403153.1E
A4L12	360232.6N / 1401646.8E	BORLO	351633.8N / 1414455.6E
A4L13	360236.7N / 1402559.7E	BOXER	355213.0N / 1401951.6E
A4L14	355937.8N / 1403205.0E	CHUMS	354237.0N / 1404806.0E
A4R21	355529.4N / 1401729.2E	CUPID	352930.3N / 1410557.3E
A4R22	355734.5N / 1402150.1E	GRAYL	351504.8N / 1412938.0E
A4R23	355638.8N / 1402614.7E	LUCCA	354132.8N / 1404011.4E
A6L21	353137.9N / 1403441.9E	OLVAN	351214.1N / 1410111.3E
A6R12	352543.5N / 1403700.7E	PEGAS	355126.3N / 1403302.1E
ARIES	355607.4N / 1401505.9E	ROONY	355317.4N / 1404024.4E
ASPEN	353451.0N / 1403028.1E		

CHANGE : New PROC

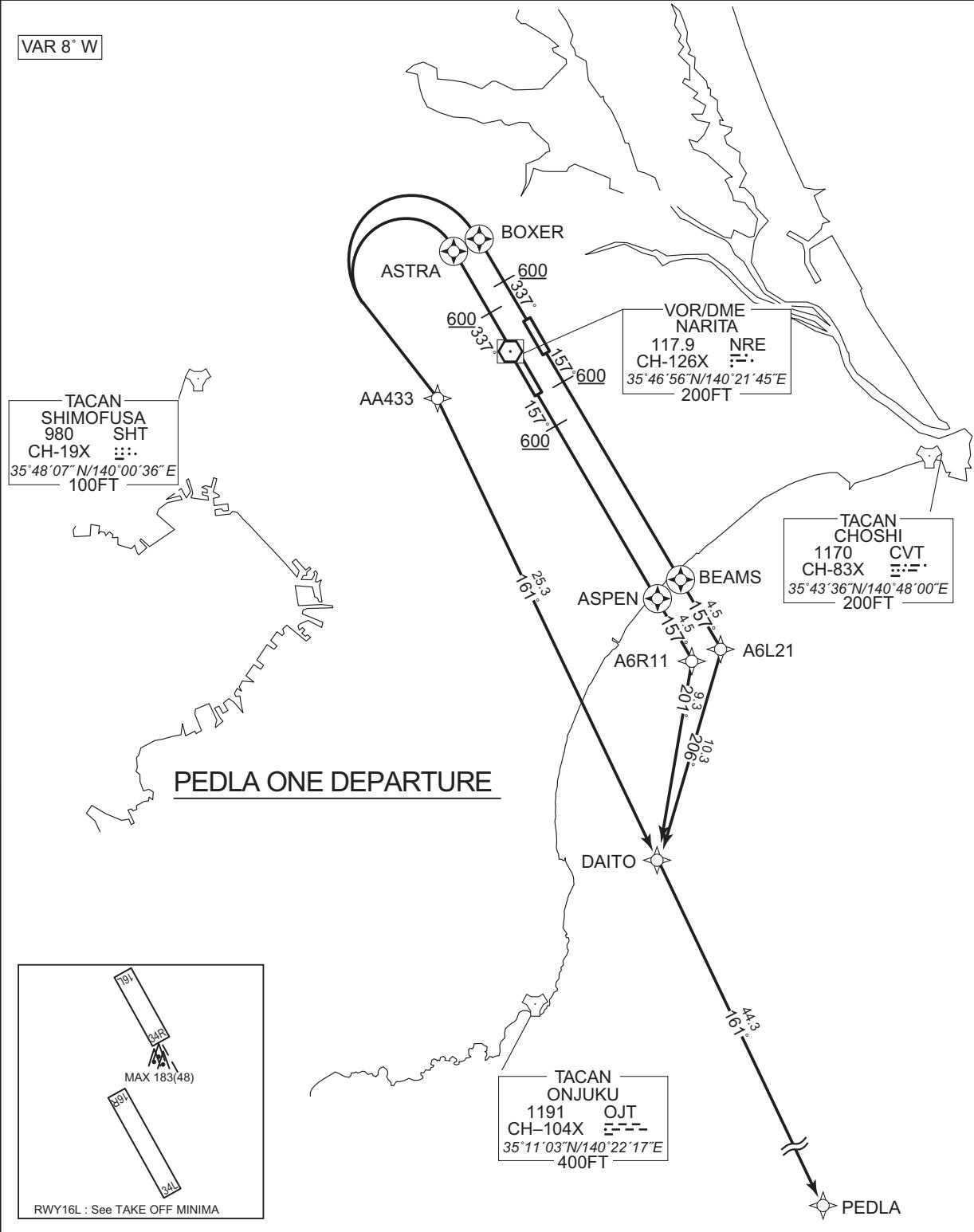
STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

PEDLA ONE DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling.	Critical DME	RWY16R:TLD DER – 1.3NM FM DER RWY16L:TLD DER – 3.4NM FM DER
	DME GAP	RWY34L :DER – 1.3NM FM DER
2) RADAR service required.	Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAV/AIDs for RNAV1

VAR 8° W



CHANGE : Description of VAR.

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

PEDLA ONE DEPARTURE

RWY16R : Climb on HDG 157° at or above 600FT, direct to ASPEN, to A6R11, to DAITO, to PEDLA.

RWY16L : Climb on HDG 157° at or above 600FT, direct to BEAMS, to A6L21, to DAITO, to PEDLA.

RWY34L : Climb on HDG 337° at or above 600FT, direct to ASTRA, turn left direct to AA433, to DAITO, to PEDLA.

RWY34R : Climb on HDG 337° at or above 600FT, direct to BOXER, turn left direct to AA433, to DAITO, to PEDLA.

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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ASPEN	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6R11	—	157 (149.7)	-7.5	4.5	—	—	—	—	RNAV1
004	TF	DAITO	—	201 (193.3)	-7.5	9.3	—	—	—	—	RNAV1
005	TF	PEDLA	—	161 (153.9)	-7.5	44.3	—	—	—	—	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BEAMS	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6L21	—	157 (149.7)	-7.5	4.5	—	—	—	—	RNAV1
004	TF	DAITO	—	206 (198.7)	-7.5	10.3	—	—	—	—	RNAV1
005	TF	PEDLA	—	161 (153.9)	-7.5	44.3	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

RWY34L

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ASTRA	Y	—	-7.5	—	—	—	—	—	RNAV1
003	DF	AA433	—	—	-7.5	—	L	—	—	—	RNAV1
004	TF	DAITO	—	161 (153.9)	-7.5	25.3	—	—	—	—	RNAV1
005	TF	PEDLA	—	161 (153.9)	-7.5	44.3	—	—	—	—	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BOXER	Y	—	-7.5	—	—	—	—	—	RNAV1
003	DF	AA433	—	—	-7.5	—	L	—	—	—	RNAV1
004	TF	DAITO	—	161 (153.9)	-7.5	25.3	—	—	—	—	RNAV1
005	TF	PEDLA	—	161 (153.9)	-7.5	44.3	—	—	—	—	RNAV1

Waypoint Coordinates

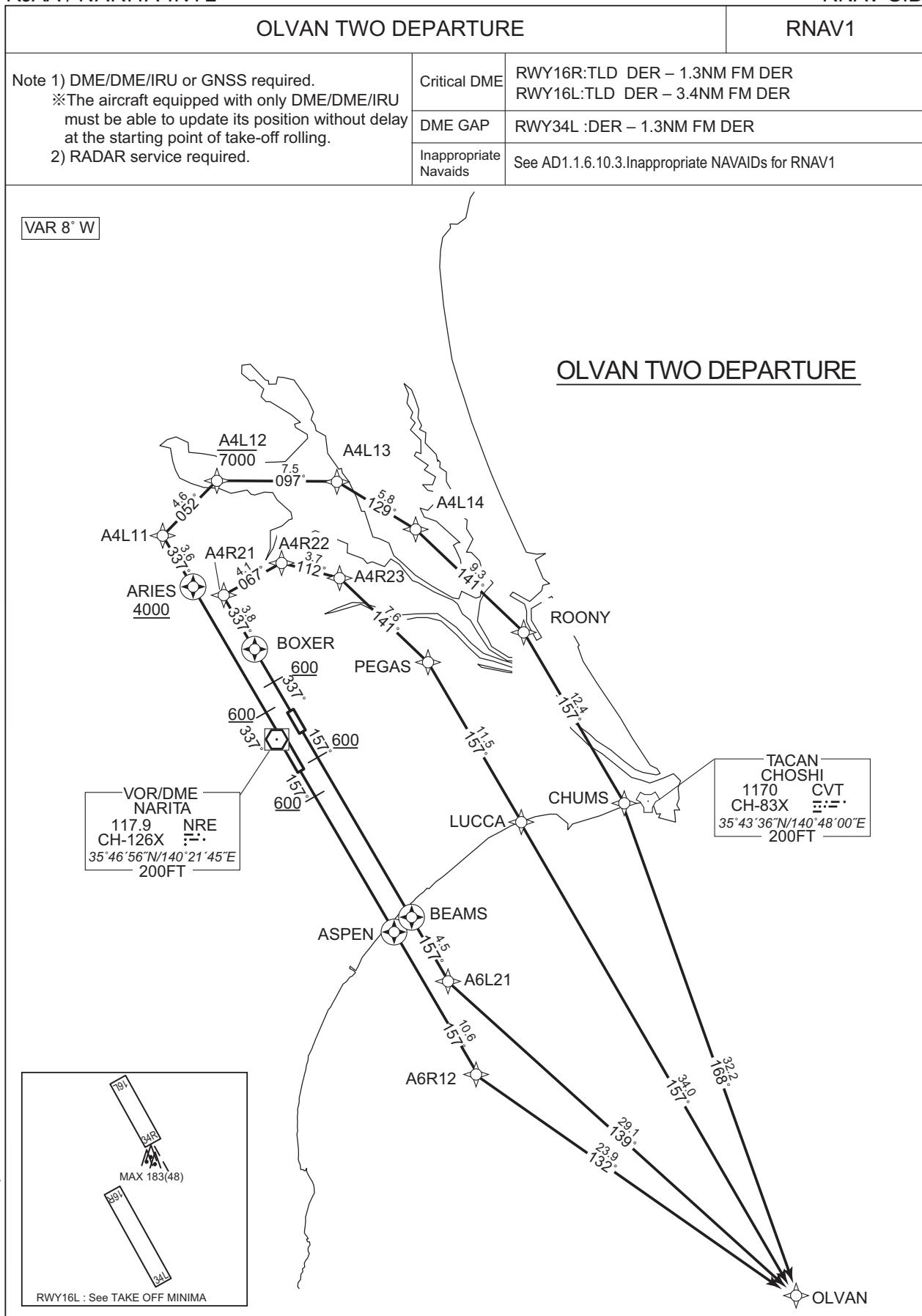
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AA433	354438.5N / 1401700.8E	BEAMS	353533.0N / 1403153.1E
A6L21	353137.9N / 1403441.9E	BOXER	355213.0N / 1401951.6E
A6R11	353056.9N / 1403316.2E	DAITO	352153.6N / 1403039.0E
ASPEN	353451.0N / 1403028.1E	PEDLA	344203.7N / 1405420.5E
ASTRA	355207.1N / 1401800.2E		

CHANGE : New PROC

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

OLVAN TWO DEPARTURE

RWY16R : Climb on HDG 157° at or above 600FT, direct to ASPEN, to A6R12, to OLVAN.

RWY16L : Climb on HDG 157° at or above 600FT, direct to BEAMS, to A6L21, to OLVAN.

RWY34L : Climb on HDG 337° at or above 600FT, direct to ARIES at or above 4000FT, to A4L11, to A4L12 at or below 7000FT, to A4L13, to A4L14, to ROONY, to CHUMS, to OLVAN.

RWY34R : Climb on HDG 337° at or above 600FT, direct to BOXER, to A4R21, to A4R22, to A4R23, to PEGAS, to LUCCA, to OLVAN.

RWY16R

*MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ASPEN	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6R12	—	157 (149.7)	-7.5	10.6	—	—	—	—	RNAV1
004	TF	OLVAN	—	132 (124.2)	-7.5	23.9	—	—	—	—	RNAV1

RWY16L

*MUST be used for database coding.

Serial Number	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	—	—	157 (149.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BEAMS	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A6L21	—	157 (149.7)	-7.5	4.5	—	—	—	—	RNAV1
004	TF	OLVAN	—	139 (131.8)	-7.5	29.1	—	—	—	—	RNAV1

CHANGE : ALT Restriction on A4R23. PROC renamed.

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

RWY34L

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	ARIES	Y	—	-7.5	—	—	+4000	—	—	RNAV1
003	TF	A4L11	—	337 (329.5)	-7.5	3.6	—	—	—	—	RNAV1
004	TF	A4L12	—	052 (044.3)	-7.5	4.6	—	-7000	—	—	RNAV1
005	TF	A4L13	—	097 (089.4)	-7.5	7.5	—	—	—	—	RNAV1
006	TF	A4L14	—	129 (121.2)	-7.5	5.8	—	—	—	—	RNAV1
007	TF	ROONY	—	141 (133.2)	-7.5	9.3	—	—	—	—	RNAV1
008	TF	CHUMS	—	157 (149.7)	-7.5	12.4	—	—	—	—	RNAV1
009	TF	OLVAN	—	168 (160.6)	-7.5	32.2	—	—	—	—	RNAV1

RWY34R

*MUST be used for database coding.

Serial Number	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	—	—	337 (329.6)	-7.5	—	—	+600	—	—	RNAV1
002	DF	BOXER	Y	—	-7.5	—	—	—	—	—	RNAV1
003	TF	A4R21	—	337 (329.6)	-7.5	3.8	—	—	—	—	RNAV1
004	TF	A4R22	—	067 (059.3)	-7.5	4.1	—	—	—	—	RNAV1
005	TF	A4R23	—	112 (104.6)	-7.5	3.7	—	—	—	—	RNAV1
006	TF	PEGAS	—	141 (133.4)	-7.5	7.6	—	—	—	—	RNAV1
007	TF	LUCCA	—	157 (149.6)	-7.5	11.5	—	—	—	—	RNAV1
008	TF	OLVAN	—	157 (149.6)	-7.5	34.0	—	—	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
A4L11	355915.6N / 1401249.1E	ARIES	355607.4N / 1401505.9E
A4L12	360232.6N / 1401646.8E	ASPEN	353451.0N / 1403028.1E
A4L13	360236.7N / 1402559.7E	BEAMS	353533.0N / 1403153.1E
A4L14	355937.8N / 1403205.0E	BOXER	355213.0N / 1401951.6E
A4R21	355529.4N / 1401729.2E	CHUMS	354237.0N / 1404806.0E
A4R22	355734.5N / 1402150.1E	LUCCA	354132.8N / 1404011.4E
A4R23	355638.8N / 1402614.7E	OLVAN	351214.1N / 1410111.3E
A6L21	353137.9N / 1403441.9E	PEGAS	355126.3N / 1403302.1E
A6R12	352543.5N / 1403700.7E	ROONY	355317.4N / 1404024.4E

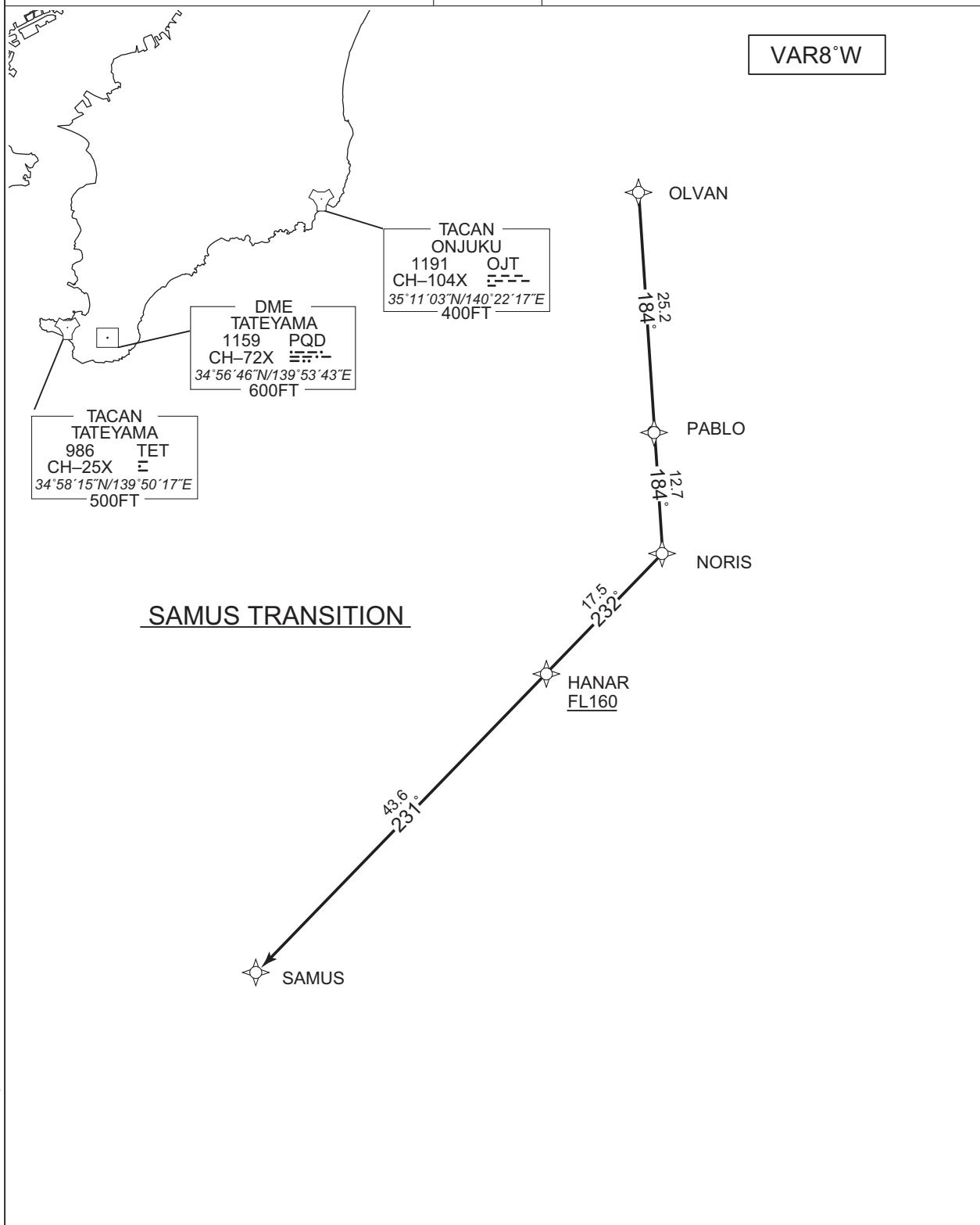
CHANGE : ALT Restriction on A4R23

STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV TRANSITION

SAMUS 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



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV TRANSITION

SAMUS TRANSITION

From OLVAN, to PABLO, to NORIS, to HANAR at or above FL160,
to SAMUS.

Serial Number	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	OLVAN	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	PABLO	—	184 (176.3)	-7.5	25.2	—	—	—	—	RNAV1
003	TF	NORIS	—	184 (176.3)	-7.5	12.7	—	—	—	—	RNAV1
004	TF	HANAR	—	232 (224.0)	-7.5	17.5	—	+FL160	—	—	RNAV1
005	TF	SAMUS	—	231 (223.8)	-7.5	43.6	—	—	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
HANAR	342149.9N / 1404923.3E	PABLO	344705.1N / 1410309.6E
NORIS	343426.6N / 1410408.5E	SAMUS	335020.0N / 1401305.0E
OLVAN	351214.1N / 1410111.3E		

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STANDARD ARRIVAL CHART -INSTRUMENT

RJAA / NARITA INTL

STAR

BOSPA SOUTH ALFA ARRIVAL

From over BOSPA, via NRE R095 to SIMAK, via NRE 21.0DME clockwise ARC to intercept and proceed via NRE R157 to GIINA.

Cross BOSPA at or above 8000FT, cross GIINA at 4000FT.

BOSPA SOUTH BRAVO ARRIVAL

From over BOSPA, via NRE R095 to SIMAK, via NRE 21.0DME clockwise ARC to intercept and proceed via NRE R153 to TEMIS.

Cross BOSPA at or above 8000FT, cross TEMIS at or above 5000FT.

BINKS SOUTH ALFA ARRIVAL

From over BINKS, via HDG007° to intercept and proceed via NRE R157 to GIINA.

Cross GIINA at 4000FT.

BINKS SOUTH BRAVO ARRIVAL

From over BINKS, via HDG007° to intercept and proceed via NRE R153 to TEMIS.

Cross TEMIS at or above 5000FT.

SWAMP SOUTH ALFA ARRIVAL

From over SWAMP, via NRE R022 to DANTE, via NRE 21.0DME clockwise ARC to intercept and proceed via NRE R157 to GIINA via SIMAK.

Cross DANTE at or above 11000FT, cross SIMAK at or above 9000FT, cross GIINA at 4000FT.

SWAMP SOUTH BRAVO ARRIVAL

From over SWAMP, via NRE R022 to DANTE, via NRE 21.0DME clockwise ARC to intercept and proceed via NRE R153 to TEMIS via SIMAK.

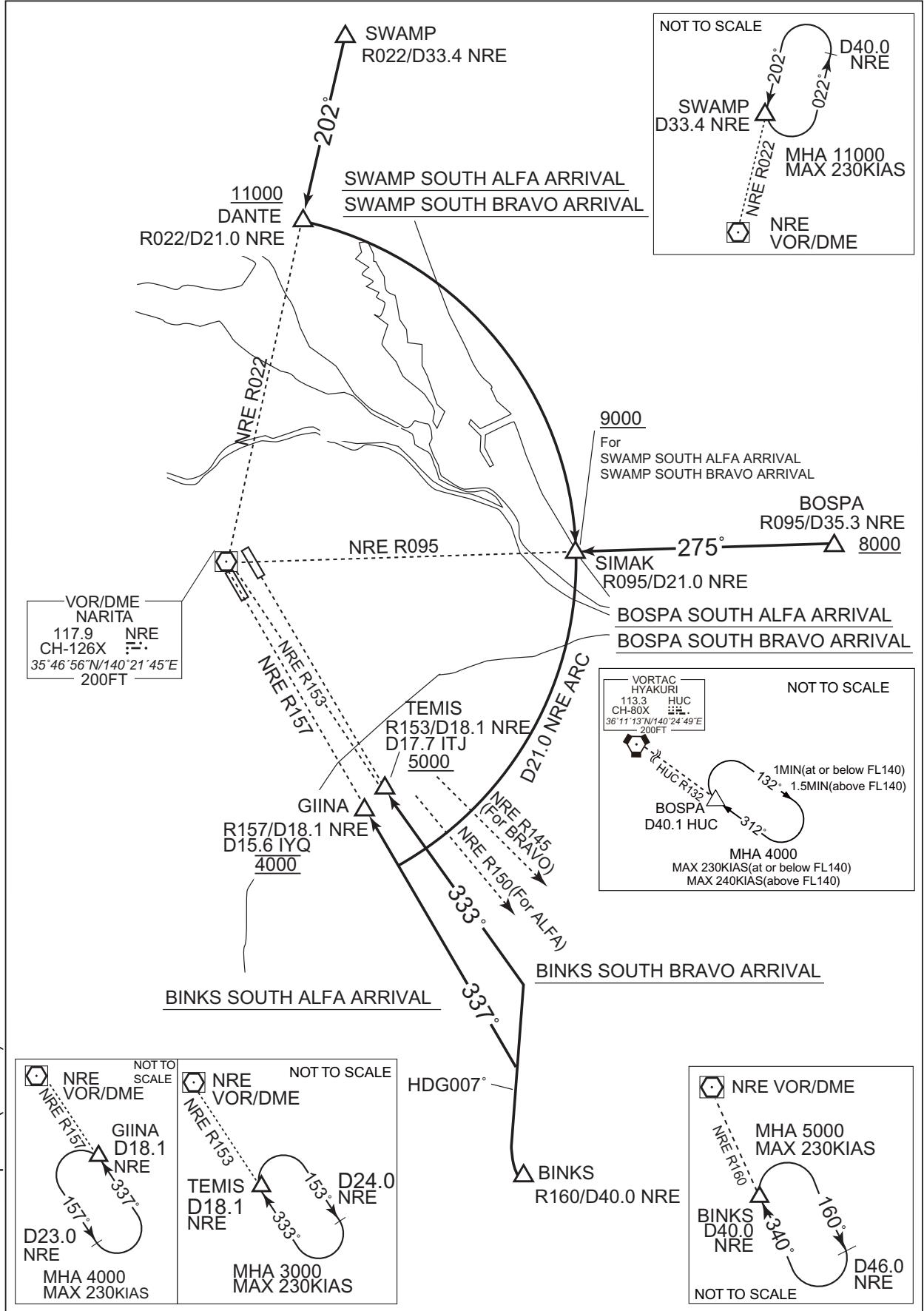
Cross DANTE at or above 11000FT, cross SIMAK at or above 9000FT, cross TEMIS at or above 5000FT.

CHANGE : BOSPA SOUTH ALFA/BRAVO ARRIVAL established. ABBOT SOUTH ALFA/BRAVO ARRIVAL abolished.
BINKS SOUTH BRAVO ARRIVAL, SWAMP SOUTH ALFA/BRAVO ARRIVAL.

STANDARD ARRIVAL CHART -INSTRUMENT

RJAA / NARITA INTL

STAR RWY34L/34R



STANDARD ARRIVAL CHART -INSTRUMENT

RJAA / NARITA INTL

STAR

BOSPA NORTH ARRIVAL

From over BOSPA, via NRE R095 to intercept and proceed via NRE 12.8DME counterclockwise ARC to LAKES.

Cross BOSPA at or above 8000FT, cross LAKES at or above 6000FT.

BINKS NORTH ARRIVAL

From over BINKS, via NRE R160 to intercept and proceed via NRE 21.0DME counterclockwise ARC to SIMAK, via NRE R095 to intercept and proceed via NRE 12.8DME counterclockwise ARC to LAKES.

Cross LAKES at or above 6000FT.

LAKES NORTH ARRIVAL

From over SWAMP, via NRE R022 to DANTE, via NRE 21.0DME clockwise ARC to SIMAK, via NRE R095 to intercept and proceed via NRE 12.8DME counterclockwise ARC to LAKES.

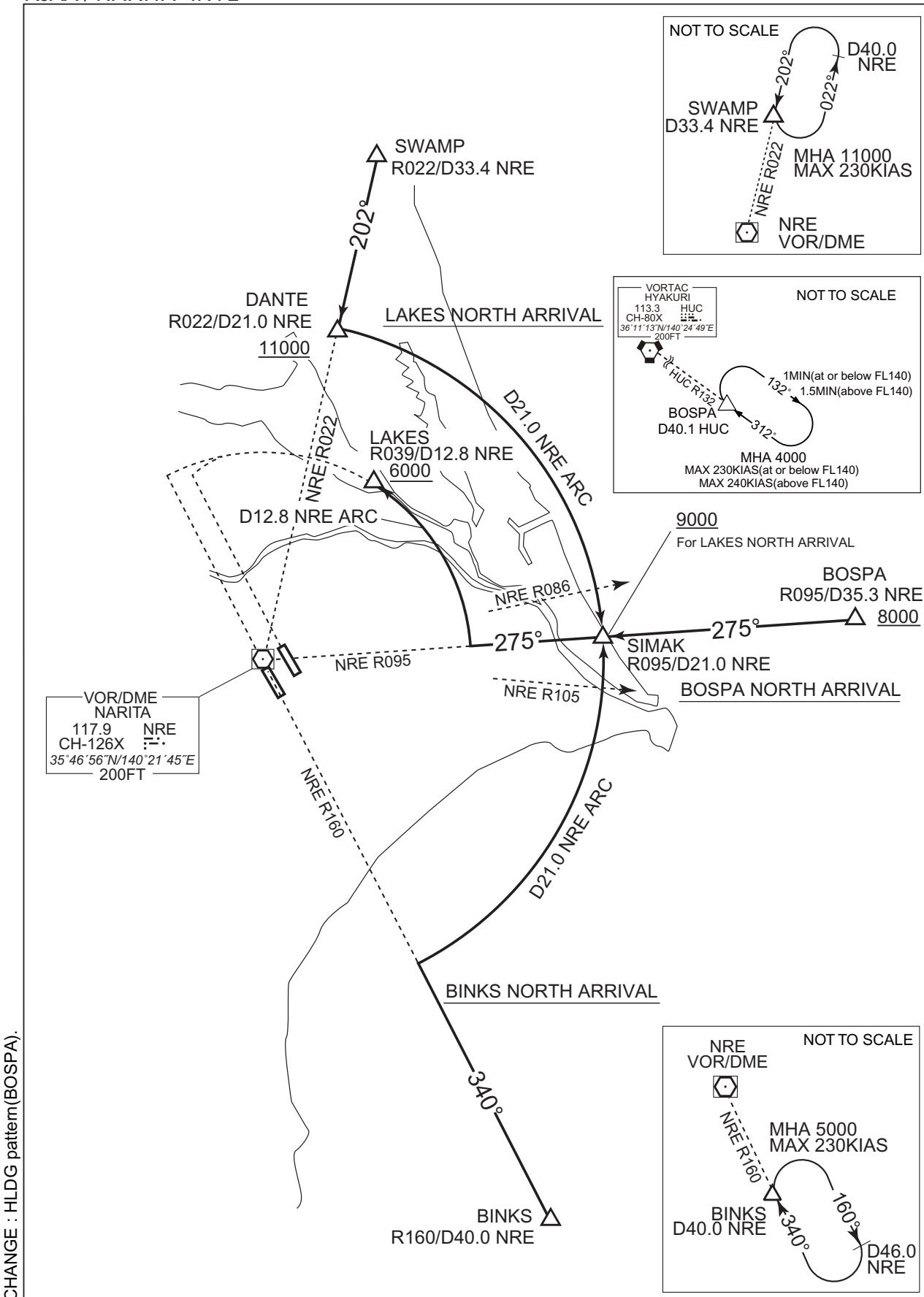
Cross DANTE at or above 11000FT, cross SIMAK at or above 9000FT, cross LAKES at or above 6000FT.

CHANGE : BOSPA NORTH ARRIVAL abolished. ABBOT NORTH ARRIVAL established. BINKS NORTH ARRIVAL abolished.

STANDARD ARRIVAL CHART -INSTRUMENT

RJAA / NARITA INTL

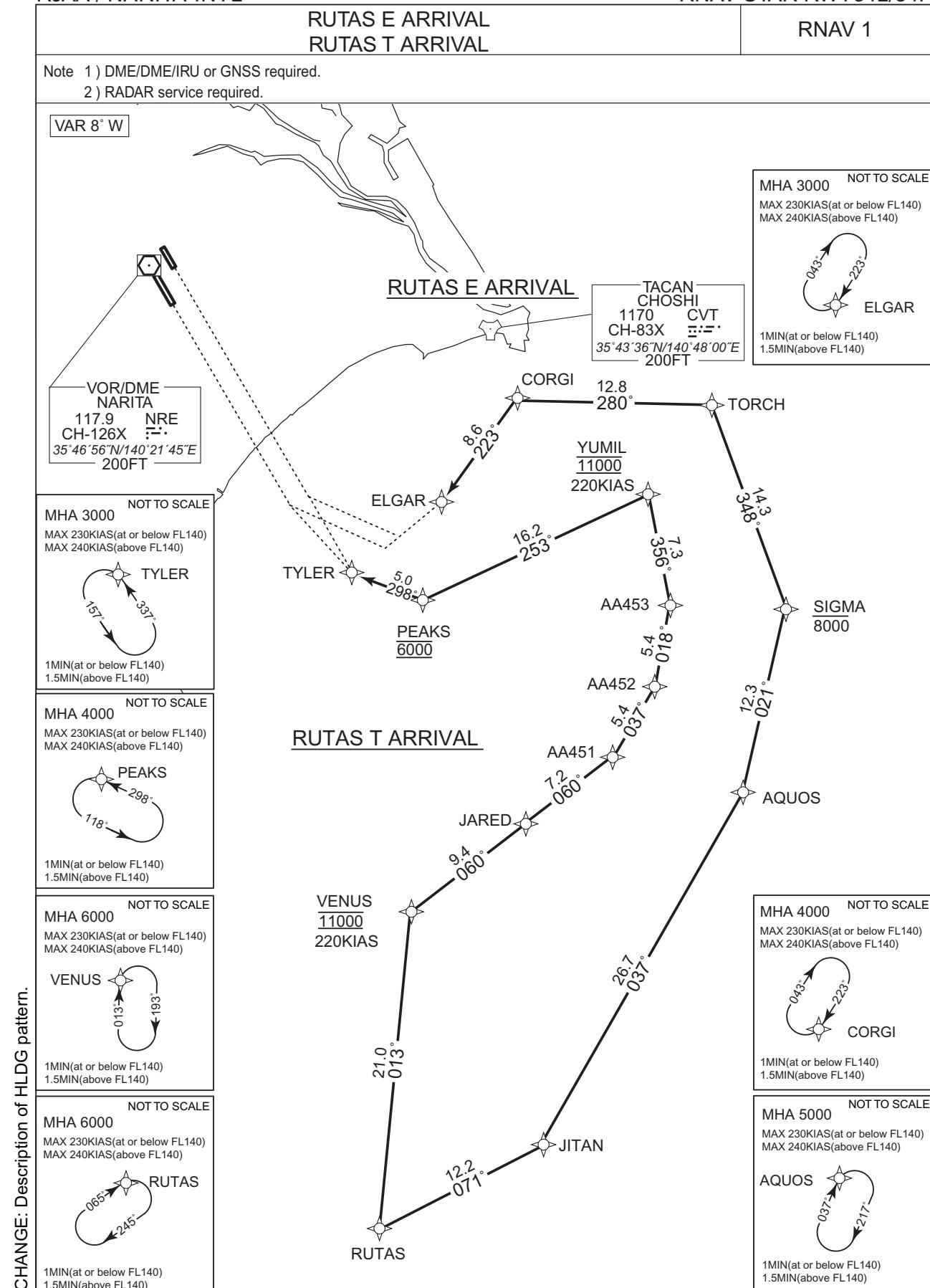
STAR RWY16R/16L



STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R



STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R

RUTAS E ARRIVAL

From RUTAS, to JITAN, to AQUOS, to SIGMA at or below 8000FT, to TORCH, to CORGI, to ELGAR.

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	RUTAS	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	JITAN	-	071 (063.5)	-7.5	12.2	-	-	-	-	RNAV1
003	TF	AQUOS	-	037 (029.1)	-7.5	26.7	-	-	-	-	RNAV1
004	TF	SIGMA	-	021 (013.8)	-7.5	12.3	-	-8000	-	-	RNAV1
005	TF	TORCH	-	348 (340.3)	-7.5	14.3	-	-	-	-	RNAV1
006	TF	CORGI	-	280 (272.8)	-7.5	12.8	-	-	-	-	RNAV1
007	TF	ELGAR	-	223 (215.7)	-7.5	8.6	-	-	-	-	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	RUTAS	065 (057.9)	-7.5	1.0(-14000) 1.5(+14001)	-	R	6000	-	-230(-14000) -240(+14001)	RNAV1
Hold	AQUOS	037 (029.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CORGI	223 (215.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ELGAR	223 (215.7)	-7.5	1.0(-14000) 1.5(+14001)	-	R	3000	-	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R

RUTAS T ARRIVAL

From RUTAS, to VENUS at 11000FT, to JARED, to AA451, to AA452, to AA453, to YUMIL at 11000FT, to PEAKS at 6000FT, to TYLER.

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	RUTAS	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	VENUS	—	013 (005.8)	-7.5	21.0	—	11000	220	—	RNAV1
003	TF	JARED	—	060 (052.3)	-7.5	9.4	—	—	—	—	RNAV1
004	TF	AA451	—	060 (052.1)	-7.5	7.2	—	—	—	—	RNAV1
005	TF	AA452	—	037 (029.7)	-7.5	5.4	—	—	—	—	RNAV1
006	TF	AA453	—	018 (010.7)	-7.5	5.4	—	—	—	—	RNAV1
007	TF	YUMIL	—	356 (348.2)	-7.5	7.3	—	11000	220	—	RNAV1
008	TF	PEAKS	—	253 (245.0)	-7.5	16.2	—	6000	—	—	RNAV1
009	TF	TYLER	—	298 (290.2)	-7.5	5.0	—	—	—	—	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	RUTAS	065 (057.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	VENUS	013 (005.8)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	PEAKS	298 (290.2)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	TYLER	337 (329.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	3000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE: JARED renamed. HLDG Pattern (PEAKS) established.

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AA451	351449.2N / 1405911.3E	PEAKS	352507.2N / 1404352.7E
AA452	351930.7N / 1410228.5E	RUTAS	344349.3N / 1404034.2E
AA453	352449.7N / 1410342.2E	SIGMA	352425.5N / 1411318.3E
AQUOS	351229.7N / 1410942.5E	TORCH	353752.8N / 1410721.7E
CORGI	353829.8N / 1405138.9E	TYLER	352650.5N / 1403807.8E
ELGAR	353129.2N / 1404527.4E	VENUS	350440.1N / 1404309.7E
JARED	351024.8N / 1405215.4E	YUMIL	353158.6N / 1410151.7E
JITAN	344914.2N / 1405349.3E		

CHANGE: JARED renamed

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R

SWAMP E ARRIVAL

From SWAMP, to VIXEN at or above 11000FT, to PLEIA, to MIFFY at or above 9000FT, to KARMA at or above 6000FT, to UNARI, to CORGI, to ELGAR.

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	SWAMP	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	VIXEN	-	140 (133.0)	-7.5	8.3	-	+11000	-	-	RNAV1
003	TF	PLEIA	-	141 (133.0)	-7.5	8.8	-	-	-	-	RNAV1
004	TF	MIFFY	-	168 (160.3)	-7.5	5.4	-	+9000	-	-	RNAV1
005	TF	KARMA	-	168 (160.3)	-7.5	12.6	-	+6000	-	-	RNAV1
006	TF	UNARI	-	168 (160.4)	-7.5	5.8	-	-	-	-	RNAV1
007	TF	CORGI	-	223 (215.8)	-7.5	8.3	-	-	-	-	RNAV1
008	TF	ELGAR	-	223 (215.7)	-7.5	8.6	-	-	-	-	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	SWAMP	205 (197.0)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	PLEIA	141 (133.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	9000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KARMA	168 (160.3)	-7.5	1.0(-14000) 1.5(+14001)	-	L	6000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CORGI	223 (215.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ELGAR	223 (215.7)	-7.5	1.0(-14000) 1.5(+14001)	-	R	3000	-	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R

SWAMP T ARRIVAL

From SWAMP, to VIXEN at or above 11000FT, to PLEIA, to KARMA, to DREAM at 10000FT, to MCGEE, to AA455, to AA456, to AA457, to HYDRA at 10000FT, to PEAKS at 6000FT, to TYLER.

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	SWAMP	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	VIXEN	—	140 (133.0)	-7.5	8.3	—	+11000	—	—	RNAV1
003	TF	PLEIA	—	141 (133.0)	-7.5	8.8	—	—	—	—	RNAV1
004	TF	KARMA	—	168 (160.3)	-7.5	17.9	—	—	—	—	RNAV1
005	TF	DREAM	—	168 (160.4)	-7.5	12.6	—	10000	220	—	RNAV1
006	TF	MCGEE	—	168 (160.4)	-7.5	6.8	—	—	—	—	RNAV1
007	TF	AA455	—	176 (168.2)	-7.5	7.9	—	—	—	—	RNAV1
008	TF	AA456	—	198 (190.7)	-7.5	5.8	—	—	—	—	RNAV1
009	TF	AA457	—	217 (209.8)	-7.5	5.8	—	—	—	—	RNAV1
010	TF	HYDRA	—	240 (232.1)	-7.5	7.7	—	10000	220	—	RNAV1
011	TF	PEAKS	—	343 (335.1)	-7.5	17.4	—	6000	—	—	RNAV1
012	TF	TYLER	—	298 (290.2)	-7.5	5.0	—	—	—	—	RNAV1

CHANGE: MCGEE renamed. HLDG Pattern (PEAKS) 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	SWAMP	205 (197.0)	-7.5	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	PLEIA	141 (133.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	9000	—	-230(-14000) -240(+14001)	RNAV1
Hold	KARMA	168 (160.3)	-7.5	1.0(-14000) 1.5(+14001)	—	L	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	PEAKS	298 (290.2)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	TYLER	337 (329.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	3000	—	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AA455	352448.3N / 1410510.3E	MCGEE	353229.0N / 1410311.8E
AA456	351905.7N / 1410351.0E	MIFFY	360232.1N / 1404959.5E
AA457	351403.4N / 1410019.2E	PEAKS	352507.2N / 1404352.7E
CORGI	353829.8N / 1405138.9E	PLEIA	360734.8N / 1404745.4E
DREAM	353853.3N / 1410023.9E	SWAMP	361914.4N / 1403217.0E
ELGAR	353129.2N / 1404527.4E	TYLER	352650.5N / 1403807.8E
HYDRA	350919.4N / 1405252.5E	UNARI	354513.8N / 1405737.1E
KARMA	355042.9N / 1405512.4E	VIXEN	361335.9N / 1403947.1E

CHANGE : MCGEE renamed

STANDARD ARRIVAL CHART - INSTRUMENT

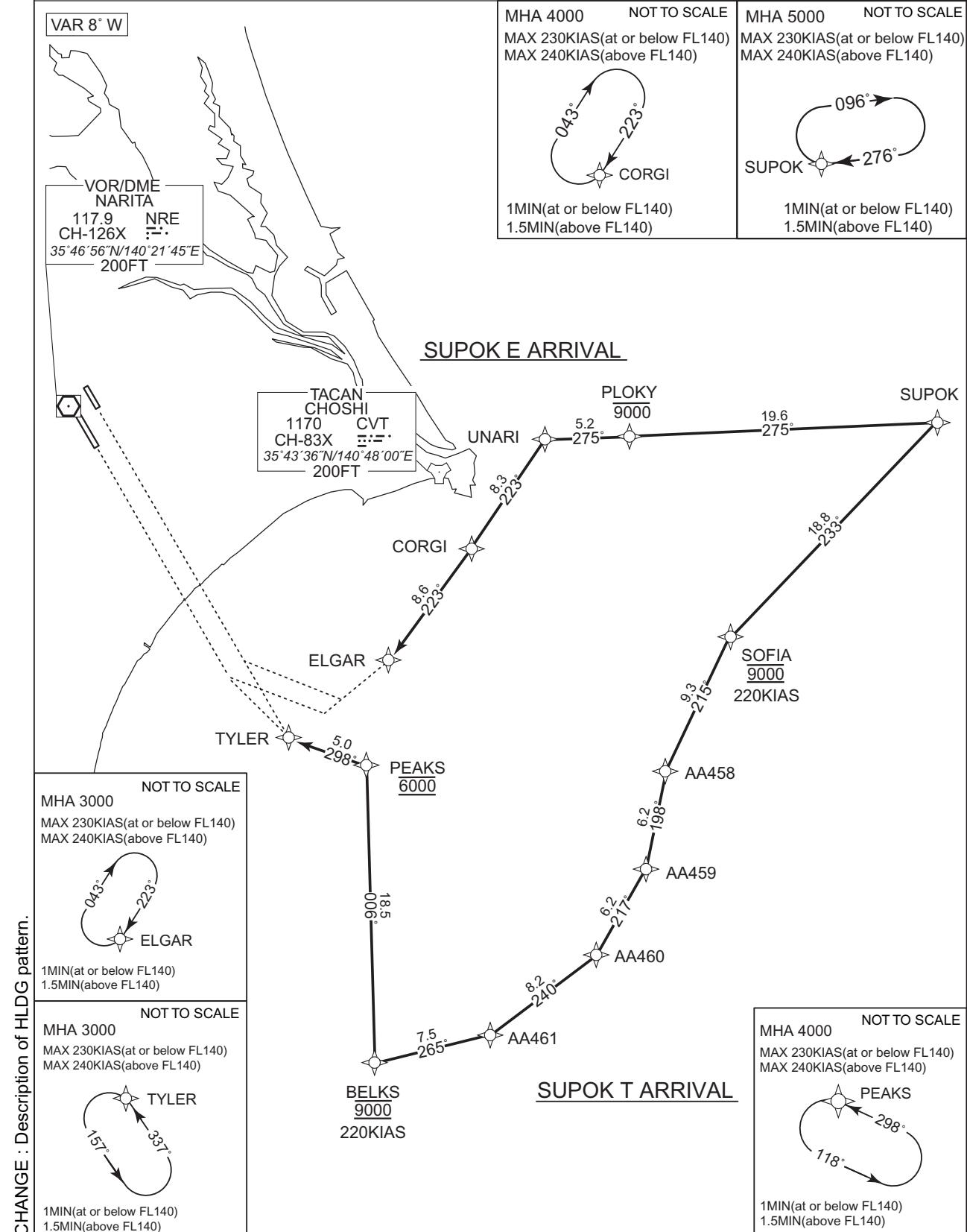
RJAA / NARITA INTL

SUPOK E ARRIVAL
SUPOK T ARRIVAL

RNAV STAR RWY34L/34R

RNAV 1

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



STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R

SUPOK E ARRIVAL

From SUPOK, to PLOKY at or below 9000FT, to UNARI, to CORGI, to ELGAR.

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	SUPOK	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	PLOKY	—	275 (267.9)	-7.5	19.6	—	-9000	—	—	RNAV1
003	TF	UNARI	—	275 (267.4)	-7.5	5.2	—	—	—	—	RNAV1
004	TF	CORGI	—	223 (215.8)	-7.5	8.3	—	—	—	—	RNAV1
005	TF	ELGAR	—	223 (215.7)	-7.5	8.6	—	—	—	—	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	SUPOK	276 (268.6)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CORGI	223 (215.8)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ELGAR	223 (215.7)	-7.5	1.0(-14000) 1.5(+14001)	—	R	3000	—	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R

SUPOK T ARRIVAL

From SUPOK, to SOFIA at 9000FT, to AA458, to AA459, to AA460, to AA461, to BELKS at 9000FT, to PEAKS at 6000FT, to TYLER.

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	SUPOK	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	SOFIA	—	233 (225.2)	-7.5	18.8	—	9000	220	—	RNAV1
003	TF	AA458	—	215 (207.2)	-7.5	9.3	—	—	—	—	RNAV1
004	TF	AA459	—	198 (190.7)	-7.5	6.2	—	—	—	—	RNAV1
005	TF	AA460	—	217 (209.8)	-7.5	6.2	—	—	—	—	RNAV1
006	TF	AA461	—	240 (232.2)	-7.5	8.2	—	—	—	—	RNAV1
007	TF	BELKS	—	265 (257.8)	-7.5	7.5	—	9000	220	—	RNAV1
008	TF	PEAKS	—	006 (358.3)	-7.5	18.5	—	6000	—	—	RNAV1
009	TF	TYLER	—	298 (290.2)	-7.5	5.0	—	—	—	—	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	SUPOK	276 (268.6)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	PEAKS	298 (290.2)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	TYLER	337 (329.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	3000	—	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AA458	352446.9N / 1410638.5E	PEAKS	352507.2N / 1404352.7E
AA459	351840.7N / 1410513.6E	PLOKY	354528.3N / 1410402.3E
AA460	351317.5N / 1410127.0E	SOFIA	353300.1N / 1411149.9E
AA461	350814.0N / 1405329.6E	SUPOK	354614.1N / 1412810.0E
BELKS	350638.5N / 1404433.3E	TYLER	352650.5N / 1403807.8E
CORGI	353829.8N / 1405138.9E	UNARI	354513.8N / 1405737.1E
ELGAR	353129.2N / 1404527.4E		

CHANGE : HLDG Pattern (PEAKS) established

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

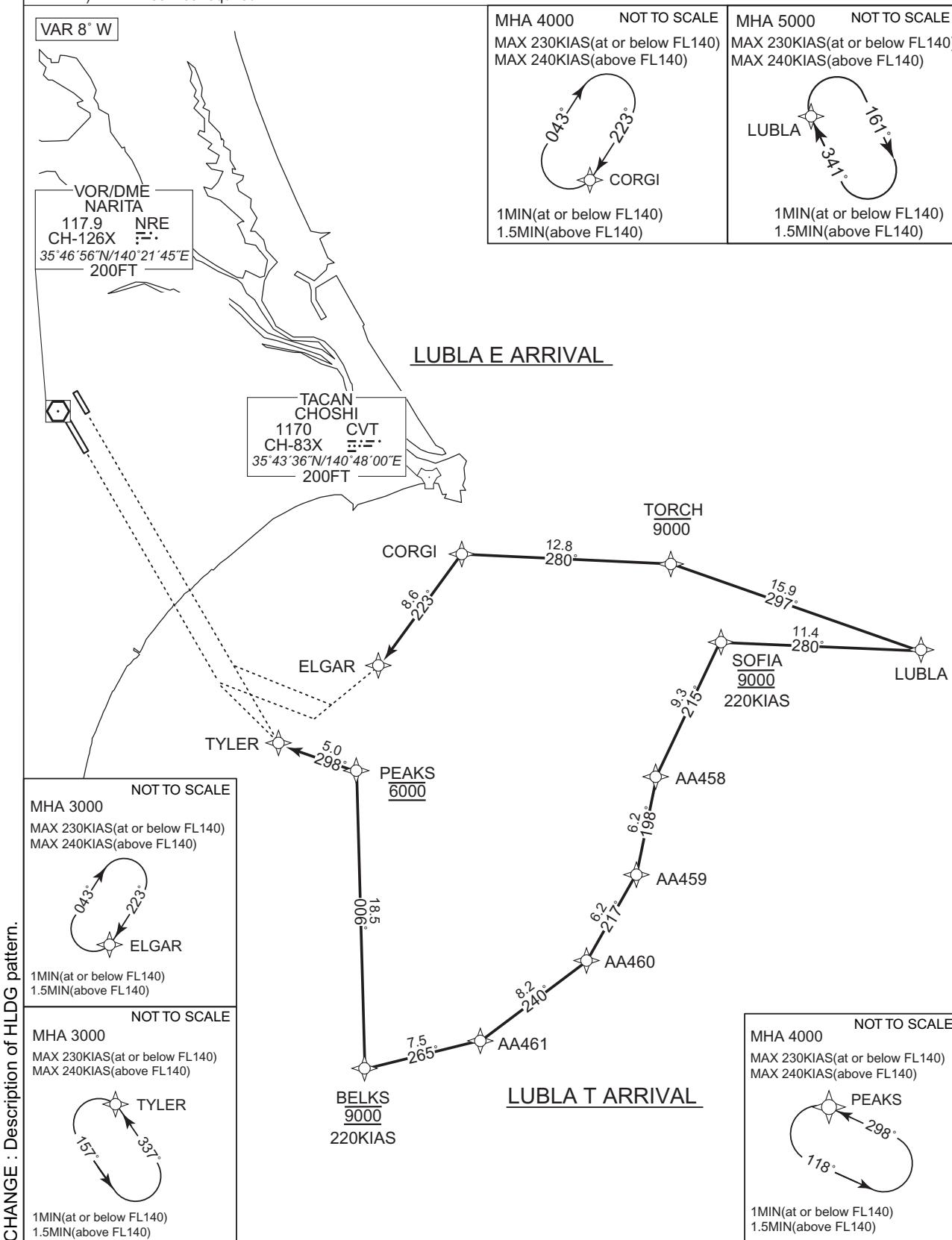
RNAV STAR RWY34L/34R

LUBLA E ARRIVAL
LUBLA T ARRIVAL

RNAV 1

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

2) RADAR service required.



STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R

LUBLA E ARRIVAL

From LUBLA, to TORCH at or below 9000FT, to CORGI, to ELGAR.

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	LUBLA	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	TORCH	—	297 (289.5)	-7.5	15.9	—	-9000	—	—	RNAV1
003	TF	CORGI	—	280 (272.8)	-7.5	12.8	—	—	—	—	RNAV1
004	TF	ELGAR	—	223 (215.7)	-7.5	8.6	—	—	—	—	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	LUBLA	341 (333.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CORGI	223 (215.8)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ELGAR	223 (215.7)	-7.5	1.0(-14000) 1.5(+14001)	—	R	3000	—	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R

LUBLA T ARRIVAL

From LUBLA, to SOFIA at 9000FT, to AA458, to AA459, to AA460, to AA461, to BELKS at 9000FT, to PEAKS at 6000FT, to TYLER.

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	LUBLA	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	SOFIA	—	280 (272.2)	-7.5	11.4	—	9000	220	—	RNAV1
003	TF	AA458	—	215 (207.2)	-7.5	9.3	—	—	—	—	RNAV1
004	TF	AA459	—	198 (190.7)	-7.5	6.2	—	—	—	—	RNAV1
005	TF	AA460	—	217 (209.8)	-7.5	6.2	—	—	—	—	RNAV1
006	TF	AA461	—	240 (232.2)	-7.5	8.2	—	—	—	—	RNAV1
007	TF	BELKS	—	265 (257.8)	-7.5	7.5	—	9000	220	—	RNAV1
008	TF	PEAKS	—	006 (358.3)	-7.5	18.5	—	6000	—	—	RNAV1
009	TF	TYLER	—	298 (290.2)	-7.5	5.0	—	—	—	—	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	LUBLA	341 (333.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	PEAKS	298 (290.2)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	TYLER	337 (329.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	3000	—	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AA458	352446.9N / 1410638.5E	ELGAR	353129.2N / 1404527.4E
AA459	351840.7N / 1410513.6E	LUBLA	353235.0N / 1412550.8E
AA460	351317.5N / 1410127.0E	PEAKS	352507.2N / 1404352.7E
AA461	350814.0N / 1405329.6E	SOFIA	353300.1N / 1411149.9E
BELKS	350638.5N / 1404433.3E	TORCH	353752.8N / 1410721.7E
CORGI	353829.8N / 1405138.9E	TYLER	352650.5N / 1403807.8E

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY16R/16L

RNAV 1

RUTAS G ARRIVAL RUTAS N ARRIVAL

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

2) RADAR service required.

VAR 8° W

CHANGE : Description of HLDG pattern.

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY16R/16L

RUTAS G ARRIVAL

From RUTAS, to VENUS, to COPEN at 10000FT, to BOOTH, to AA651, to AA652, to GAMMA at 10000FT, to CASIO at 6000FT, to GEMIN.

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	RUTAS	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	VENUS	—	013 (005.8)	-7.5	21.0	—	—	—	—	RNAV1
003	TF	COPEN	—	018 (010.5)	-7.5	28.9	—	10000	210	—	RNAV1
004	TF	BOOTH	—	018 (010.6)	-7.5	7.5	—	—	—	—	RNAV1
005	TF	AA651	—	034 (026.6)	-7.5	6.6	—	—	—	—	RNAV1
006	TF	AA652	—	011 (003.1)	-7.5	6.6	—	—	—	—	RNAV1
007	TF	GAMMA	—	347 (339.6)	-7.5	6.6	—	10000	210	—	RNAV1
008	TF	CASIO	—	245 (237.6)	-7.5	16.0	—	6000	—	—	RNAV1
009	TF	GEMIN	—	317 (309.1)	-7.5	11.6	—	—	—	—	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	RUTAS	065 (057.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	VENUS	013 (005.8)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COPEN	018 (010.5)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CASIO	316 (308.6)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GEMIN	317 (309.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : BOOTH renamed

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY16R/16L

RUTAS N ARRIVAL

From RUTAS, to VENUS, to GAUDI, to BARON, to NORMA.

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	RUTAS	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	VENUS	—	013 (005.8)	-7.5	21.0	—	—	—	—	RNAV1
003	TF	GAUDI	—	042 (034.1)	-7.5	30.7	—	—	—	—	RNAV1
004	TF	BARON	—	358 (351.0)	-7.5	16.0	—	—	—	—	RNAV1
005	TF	NORMA	—	308 (300.0)	-7.5	26.5	—	—	—	—	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	RUTAS	065 (057.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	VENUS	013 (005.8)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GAUDI	358 (351.0)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	BARON	277 (270.0)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NORMA	308 (300.0)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AA651	354615.0N / 1405457.4E	GAMMA	355856.3N / 1405234.6E
AA652	355247.8N / 1405523.8E	GAUDI	353002.4N / 1410418.1E
BARON	354551.0N / 1410112.0E	GEMIN	355738.6N / 1402450.7E
BOOTH	354023.6N / 1405120.5E	NORMA	355900.8N / 1403254.0E
CASIO	355021.4N / 1403556.1E	RUTAS	344349.3N / 1404034.2E
COPEN	353303.7N / 1404939.2E	VENUS	350440.1N / 1404309.7E

CHANGE : BOOTH renamed

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY16R/16L

SWAMP G ARRIVAL
SWAMP N ARRIVAL

RNAV 1

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

2) RADAR service required.

MHA 11000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)

VAR 8° W

SWAMP
205°
025°
1MIN(at or below FL140)
1.5MIN(above FL140)

SWAMP

VIXEN

11000

SWAMP N ARRIVALPLEIA
9000 (For SWAMP G ARRIVAL)
210KIAS (For SWAMP G ARRIVAL)VOR/DME
NARITA
117.9
CH-126X
35°46'56"N/140°21'45"E
200FTTACAN
CHOSHI
1170
CH-83X
35°43'36"N/140°48'00"E
200FTSWAMP G ARRIVALNOT TO SCALE
MHA 9000
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)1MIN(at or below FL140)
1.5MIN(above FL140)MHA 4000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)GEMIN
37°
73°1MIN(at or below FL140)
1.5MIN(above FL140)MHA 6000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)NORMA
308°
128°1MIN(at or below FL140)
1.5MIN(above FL140)MHA 4000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)CASIO
376°
736°1MIN(at or below FL140)
1.5MIN(above FL140)MHA 6000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)BARON
277°
097°1MIN(at or below FL140)
1.5MIN(above FL140)

CHANGE : Description of HLDG pattern.

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY16R/16L

SWAMP G ARRIVAL

From SWAMP, to VIXEN at or above 11000FT, to PLEIA at 9000FT, to BETEL, to AA653, to AA654, to SPITZ at 9000FT, to CASIO at 6000FT, to GEMIN.

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	SWAMP	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	VIXEN	—	140 (133.0)	-7.5	8.3	—	+11000	—	—	RNAV1
003	TF	PLEIA	—	141 (133.0)	-7.5	8.8	—	9000	210	—	RNAV1
004	TF	BETEL	—	157 (149.1)	-7.5	9.4	—	—	—	—	RNAV1
005	TF	AA653	—	167 (159.6)	-7.5	7.0	—	—	—	—	RNAV1
006	TF	AA654	—	191 (183.1)	-7.5	7.0	—	—	—	—	RNAV1
007	TF	SPITZ	—	214 (206.6)	-7.5	7.0	—	9000	210	—	RNAV1
008	TF	CASIO	—	316 (308.6)	-7.5	17.1	—	6000	—	—	RNAV1
009	TF	GEMIN	—	317 (309.1)	-7.5	11.6	—	—	—	—	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	SWAMP	205 (197.0)	-7.5	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	PLEIA	141 (133.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	9000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CASIO	316 (308.6)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GEMIN	317 (309.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY16R/16L

SWAMP N ARRIVAL

From SWAMP, to VIXEN at or above 11000FT, to PLEIA, to AA655, to AA656, to AA657 at or above 9000FT, to BARON, to NORMA.

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	SWAMP	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	VIXEN	-	140 (133.0)	-7.5	8.3	-	+11000	-	-	RNAV1
003	TF	PLEIA	-	141 (133.0)	-7.5	8.8	-	-	-	-	RNAV1
004	TF	AA655	-	140 (132.9)	-7.5	14.8	-	-	-	-	RNAV1
005	TF	AA656	-	097 (089.9)	-7.5	8.9	-	-	-	-	RNAV1
006	TF	AA657	-	187 (180.0)	-7.5	11.6	-	+9000	-	-	RNAV1
007	TF	BARON	-	277 (270.0)	-7.5	8.9	-	-	-	-	RNAV1
008	TF	NORMA	-	308 (300.0)	-7.5	26.5	-	-	-	-	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	SWAMP	205 (197.0)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	PLEIA	141 (133.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	9000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BARON	277 (270.0)	-7.5	1.0(-14000) 1.5(+14001)	-	R	6000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NORMA	308 (300.0)	-7.5	1.0(-14000) 1.5(+14001)	-	R	6000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AA653	355257.7N / 1405644.1E	CASIO	355021.4N / 1403556.1E
AA654	354557.9N / 1405615.8E	GEMIN	355738.6N / 1402450.7E
AA655	355728.9N / 1410110.3E	NORMA	355900.8N / 1403254.0E
AA656	355729.4N / 1411209.0E	PLEIA	360734.8N / 1404745.4E
AA657	354551.6N / 1411209.1E	SPITZ	353942.4N / 1405223.9E
BARON	354551.0N / 1410112.0E	SWAMP	361914.4N / 1403217.0E
BETEL	355931.6N / 1405343.4E	VIXEN	361335.9N / 1403947.1E

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

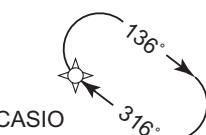
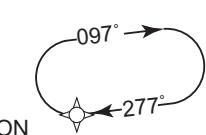
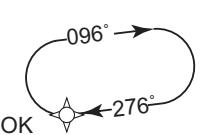
RNAV STAR RWY16R/16L

SUPOK G ARRIVAL
SUPOK N ARRIVAL

RNAV 1

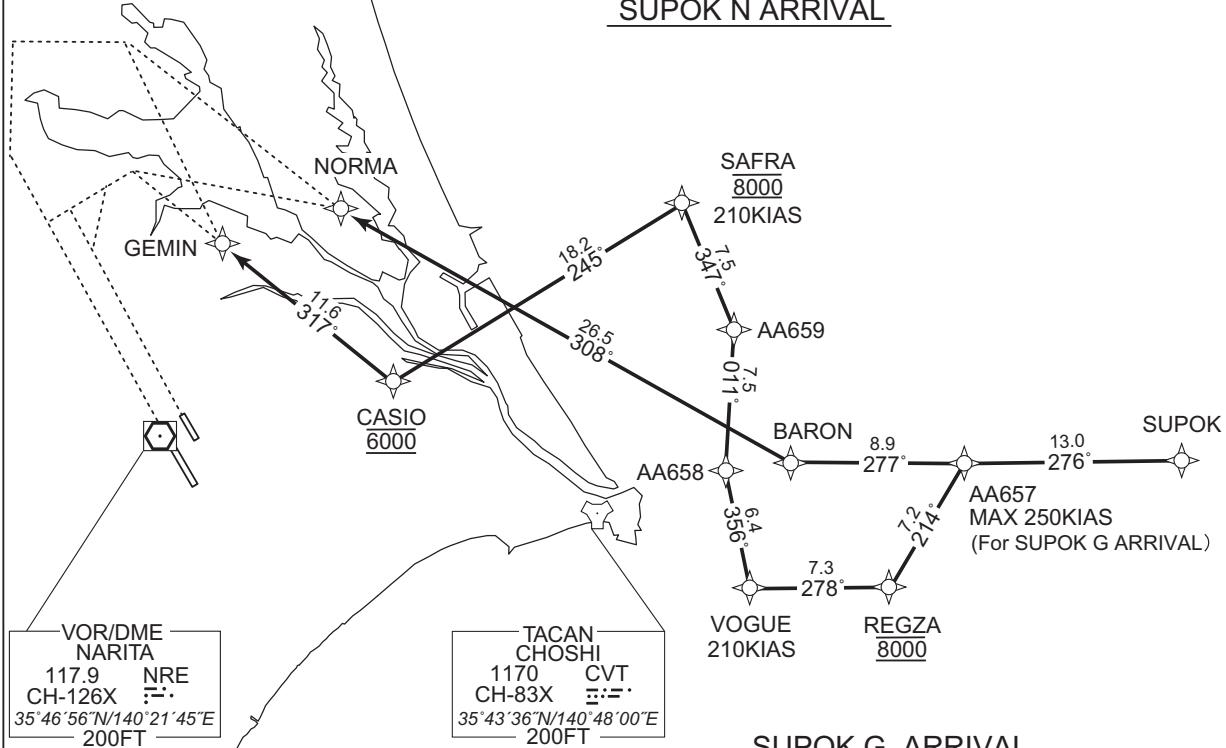
Note 1) DME/DME/IRU or GNSS required.

2) RADAR service required.

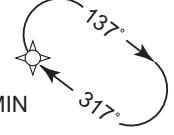
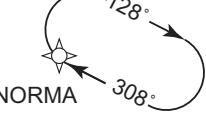
MHA 4000 NOT TO SCALE MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140)	MHA 6000 NOT TO SCALE MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140)	MHA 5000 NOT TO SCALE MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140)
 CASIO 1MIN(at or below FL140) 1.5MIN(above FL140)	 BARON 1MIN(at or below FL140) 1.5MIN(above FL140)	 SUPOK 1MIN(at or below FL140) 1.5MIN(above FL140)

VAR 8° W

SUPOK N ARRIVAL



SUPOK G ARRIVAL

MHA 4000 NOT TO SCALE MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140)	MHA 6000 NOT TO SCALE MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140)
 GEMIN 1MIN(at or below FL140) 1.5MIN(above FL140)	 NORMA 1MIN(at or below FL140) 1.5MIN(above FL140)

CHANGE : Description of HLDG pattern.

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY16R/16L

SUPOK G ARRIVAL

From SUPOK, to AA657, to REGZA at 8000FT, to VOGUE, to AA658, to AA659, to SAFRA at 8000FT, to CASIO at 6000FT, to GEMIN.

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	SUPOK	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	AA657	—	276 (268.4)	-7.5	13.0	—	—	-250	—	RNAV1
003	TF	REGZA	—	214 (206.8)	-7.5	7.2	—	8000	—	—	RNAV1
004	TF	VOGUE	—	278 (270.3)	-7.5	7.3	—	—	210	—	RNAV1
005	TF	AA658	—	356 (348.4)	-7.5	6.4	—	—	—	—	RNAV1
006	TF	AA659	—	011 (003.1)	-7.5	7.5	—	—	—	—	RNAV1
007	TF	SAFRA	—	347 (339.6)	-7.5	7.5	—	8000	210	—	RNAV1
008	TF	CASIO	—	245 (237.6)	-7.5	18.2	—	6000	—	—	RNAV1
009	TF	GEMIN	—	317 (309.1)	-7.5	11.6	—	—	—	—	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	SUPOK	276 (268.6)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CASIO	316 (308.6)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GEMIN	317 (309.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY16R/16L

SUPOK N ARRIVAL

From SUPOK, to AA657, to BARON, to NORMA.

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	SUPOK	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	AA657	—	276 (268.4)	-7.5	13.0	—	—	—	—	RNAV1
003	TF	BARON	—	277 (270.0)	-7.5	8.9	—	—	—	—	RNAV1
004	TF	NORMA	—	308 (300.0)	-7.5	26.5	—	—	—	—	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	SUPOK	276 (268.6)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	BARON	277 (270.0)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NORMA	308 (300.0)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AA657	354551.6N / 1411209.1E	NORMA	355900.8N / 1403254.0E
AA658	354540.9N / 1405734.1E	REGZA	353925.8N / 1410809.1E
AA659	355307.6N / 1405804.5E	SAFRA	360006.9N / 1405452.2E
BARON	354551.0N / 1410112.0E	SUPOK	354614.1N / 1412810.0E
CASIO	355021.4N / 1403556.1E	VOGUE	353927.6N / 1405908.4E
GEMIN	355738.6N / 1402450.7E		

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

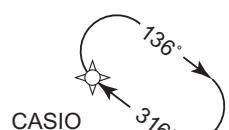
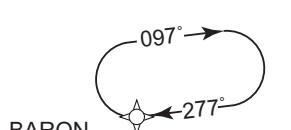
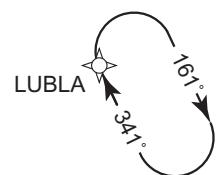
RNAV STAR RWY16R/16L

LUBLA G ARRIVAL
LUBLA N ARRIVAL

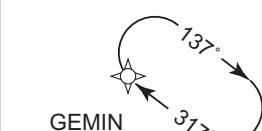
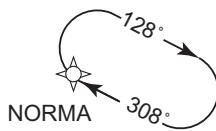
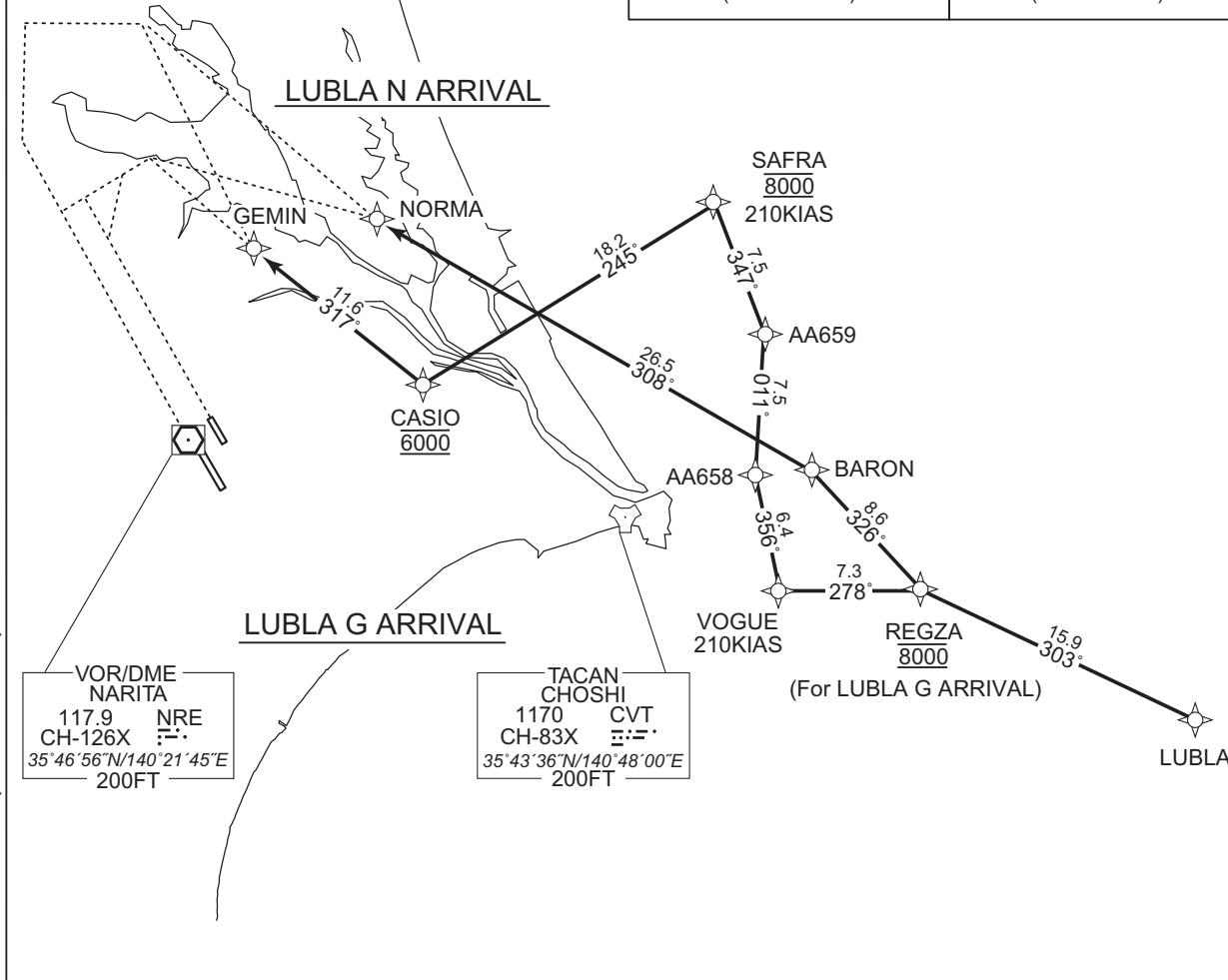
RNAV 1

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

2) RADAR service required.

MHA 4000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)MHA 6000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)MHA 5000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)1MIN(at or below FL140)
1.5MIN(above FL140)1MIN(at or below FL140)
1.5MIN(above FL140)1MIN(at or below FL140)
1.5MIN(above FL140)

VAR 8° W

MHA 4000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)1MIN(at or below FL140)
1.5MIN(above FL140)MHA 6000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)1MIN(at or below FL140)
1.5MIN(above FL140)

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY16R/16L

LUBLA G ARRIVAL

From LUBLA, to REGZA at 8000FT, to VOGUE, to AA658, to AA659, to SAFRA at 8000FT, to CASIO at 6000FT, to GEMIN.

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	LUBLA	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	REGZA	-	303 (295.5)	-7.5	15.9	-	8000	-	-	RNAV1
003	TF	VOGUE	-	278 (270.3)	-7.5	7.3	-	-	210	-	RNAV1
004	TF	AA658	-	356 (348.4)	-7.5	6.4	-	-	-	-	RNAV1
005	TF	AA659	-	011 (003.1)	-7.5	7.5	-	-	-	-	RNAV1
006	TF	SAFRA	-	347 (339.6)	-7.5	7.5	-	8000	210	-	RNAV1
007	TF	CASIO	-	245 (237.6)	-7.5	18.2	-	6000	-	-	RNAV1
008	TF	GEMIN	-	317 (309.1)	-7.5	11.6	-	-	-	-	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	LUBLA	341 (333.9)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CASIO	316 (308.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	GEMIN	317 (309.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY16R/16L

LUBLA N ARRIVAL

From LUBLA, to REGZA, to BARON, to NORMA.

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

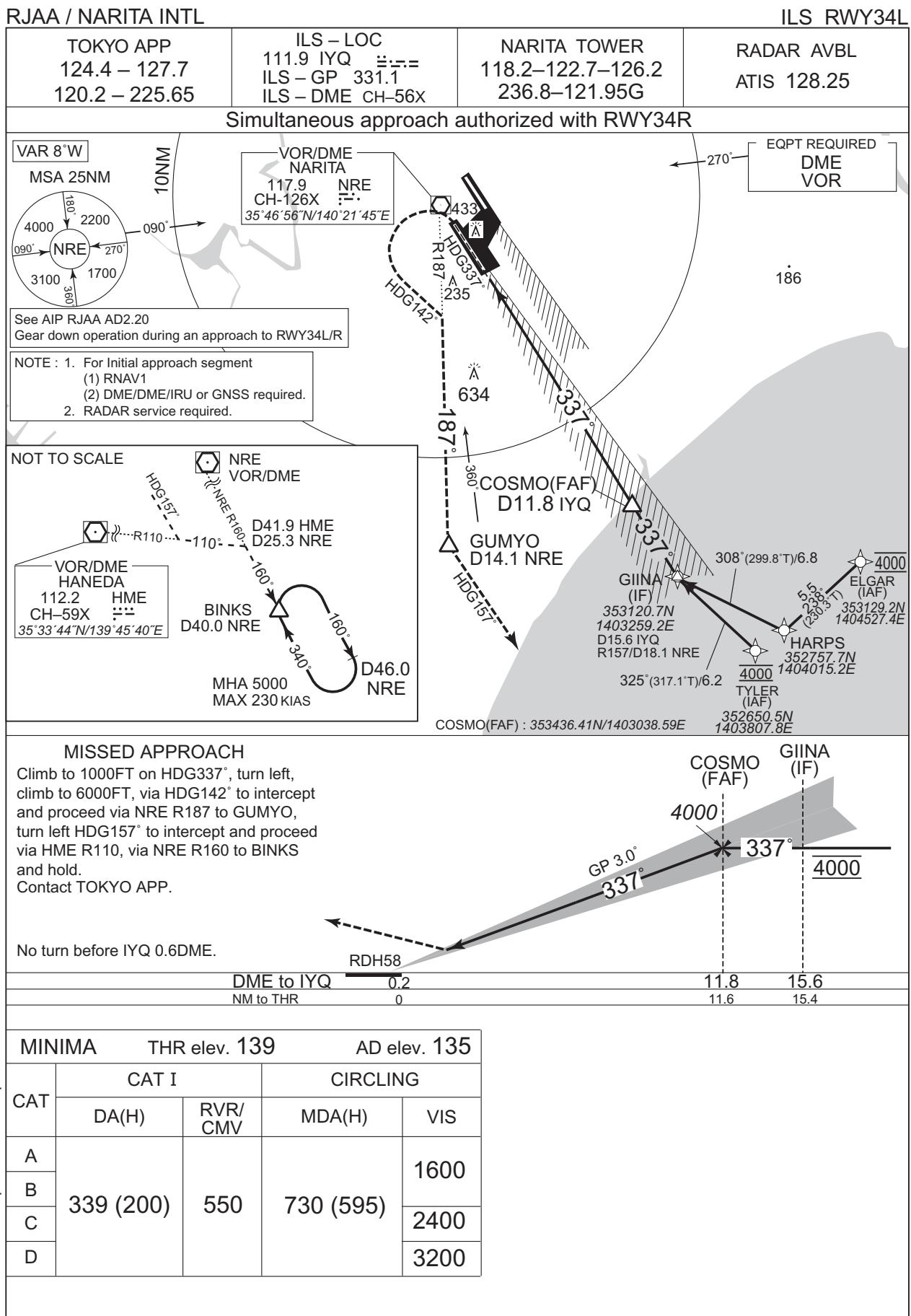
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	LUBLA	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	REGZA	—	303 (295.5)	-7.5	15.9	—	—	—	—	RNAV1
003	TF	BARON	—	326 (318.7)	-7.5	8.6	—	—	—	—	RNAV1
004	TF	NORMA	—	308 (300.0)	-7.5	26.5	—	—	—	—	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	LUBLA	341 (333.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	BARON	277 (270.0)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NORMA	308 (300.0)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AA658	354540.9N / 1405734.1E	LUBLA	353235.0N / 1412550.8E
AA659	355307.6N / 1405804.5E	NORMA	355900.8N / 1403254.0E
BARON	354551.0N / 1410112.0E	REGZA	353925.8N / 1410809.1E
CASIO	355021.4N / 1403556.1E	SAFRA	360006.9N / 1405452.2E
GEMIN	355738.6N / 1402450.7E	VOGUE	353927.6N / 1405908.4E

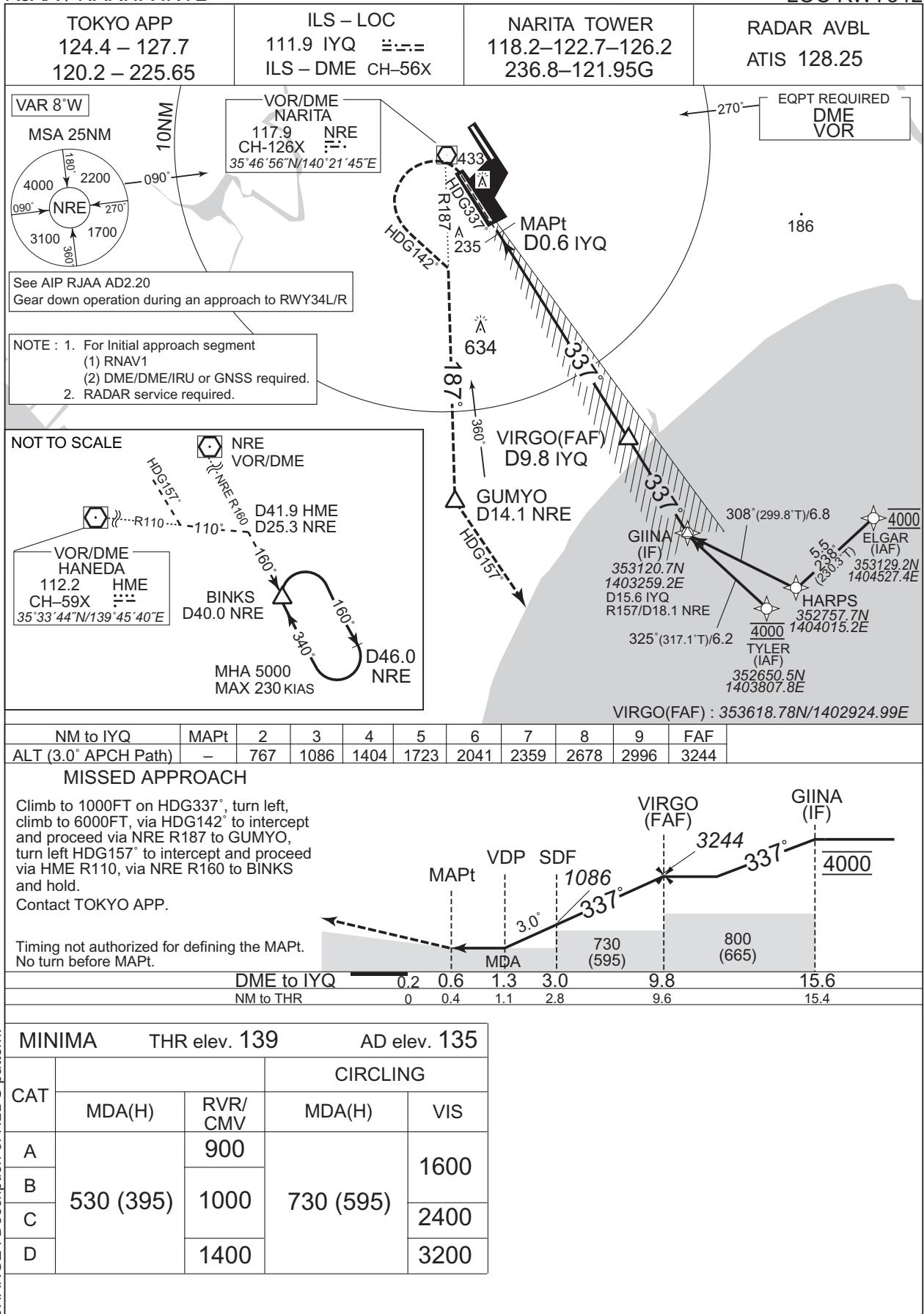
INSTRUMENT APPROACH CHART



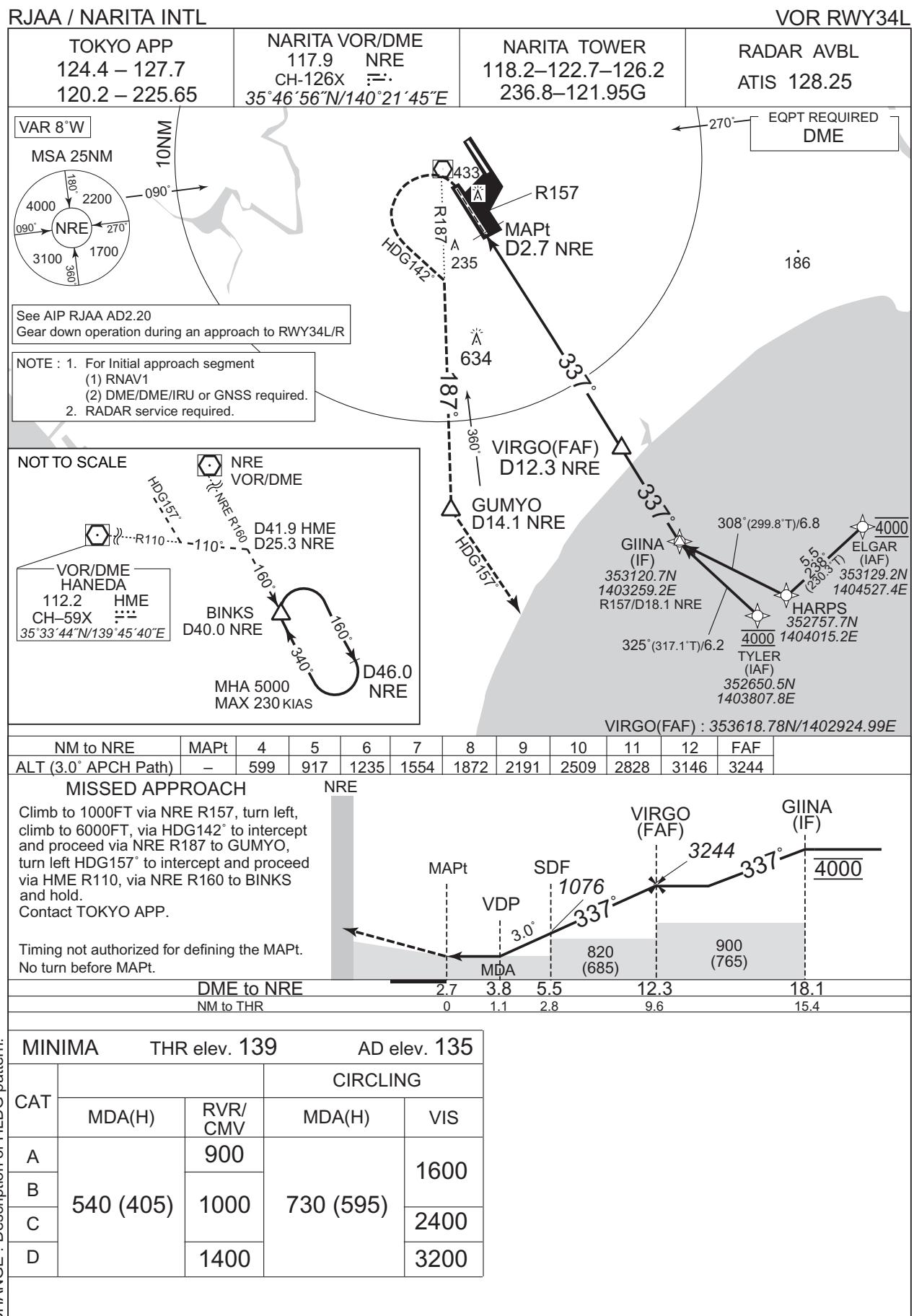
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RJAA / NARITA INTL

LOC RWY34L



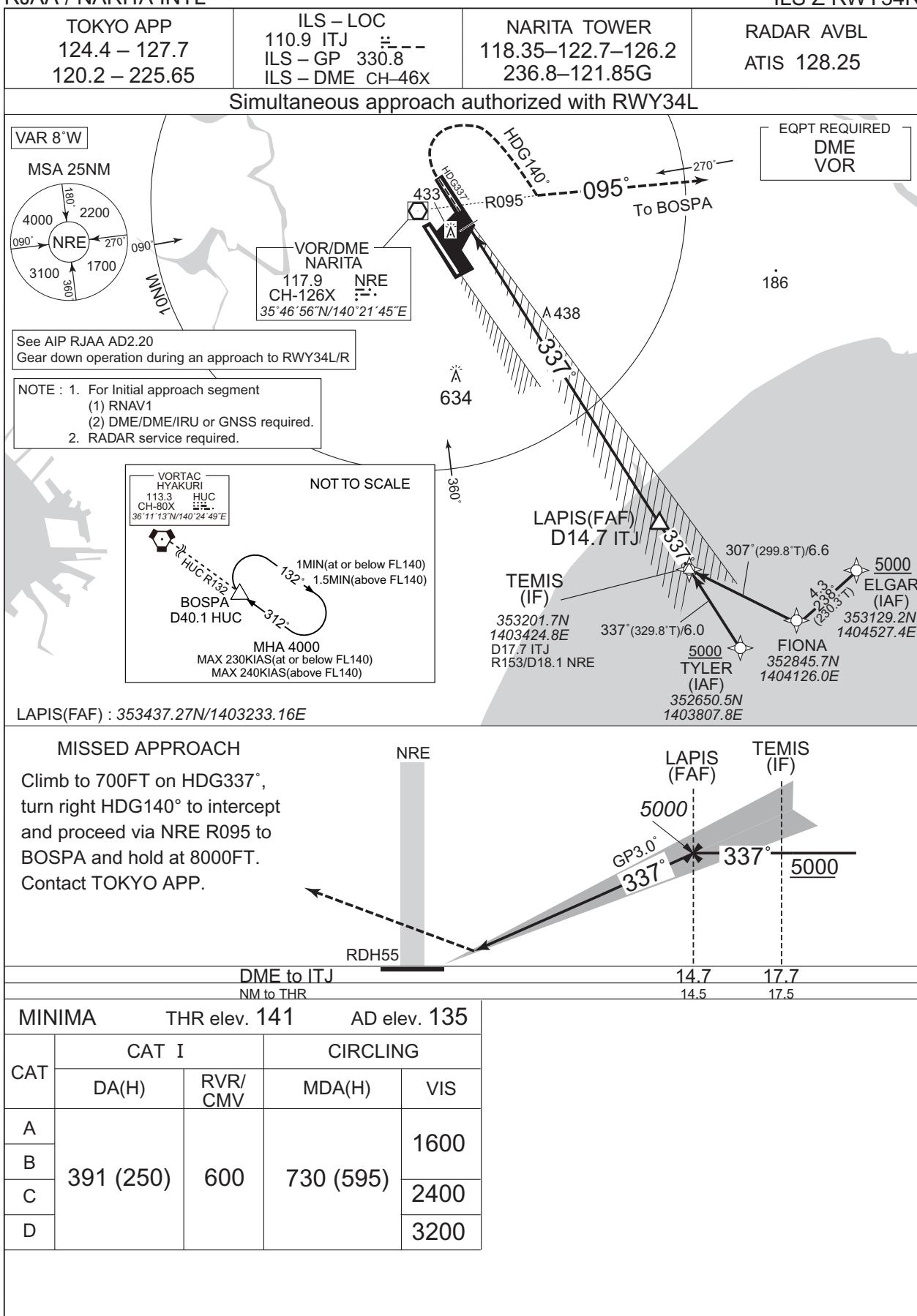
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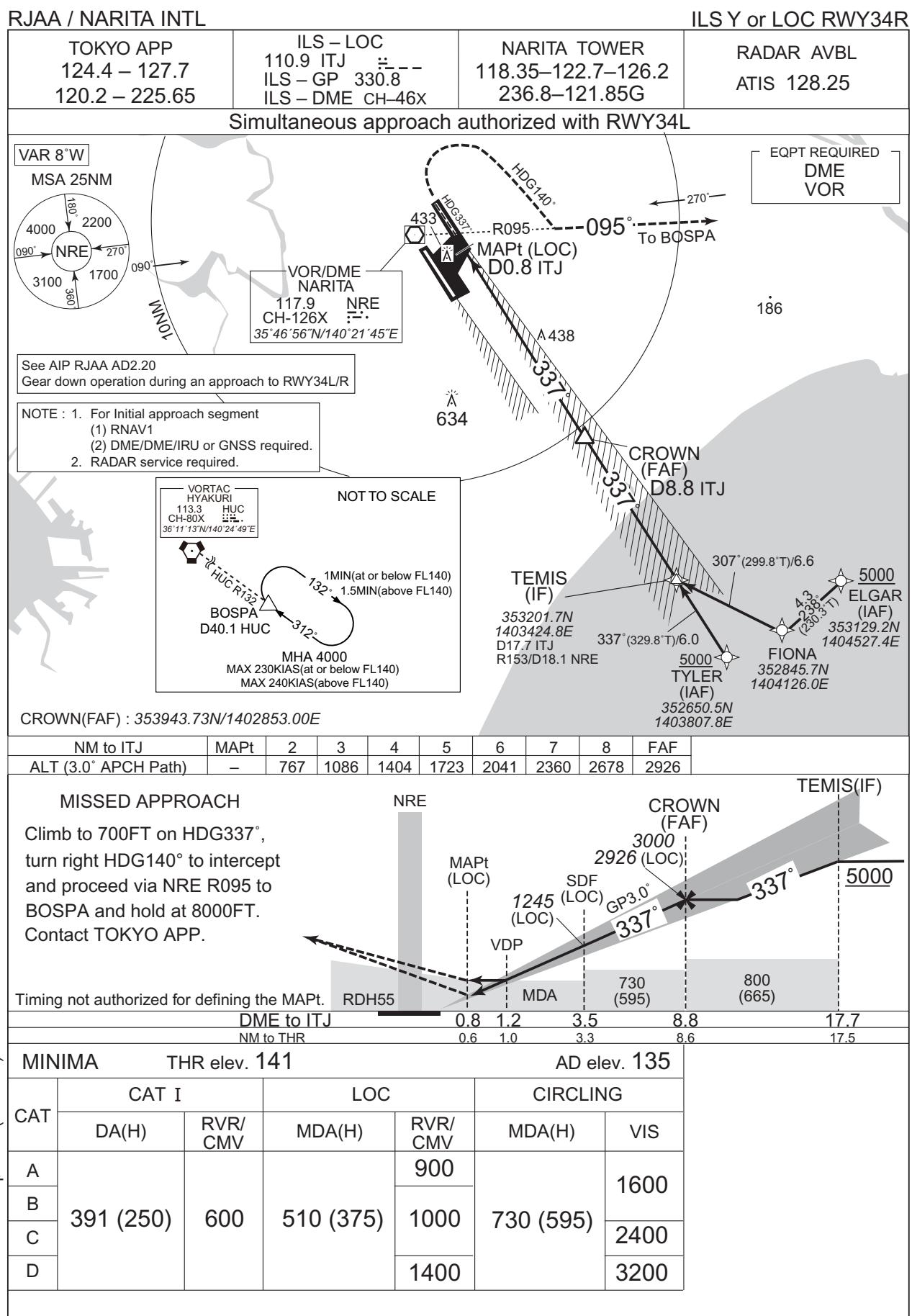
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RJAA / NARITA INTL

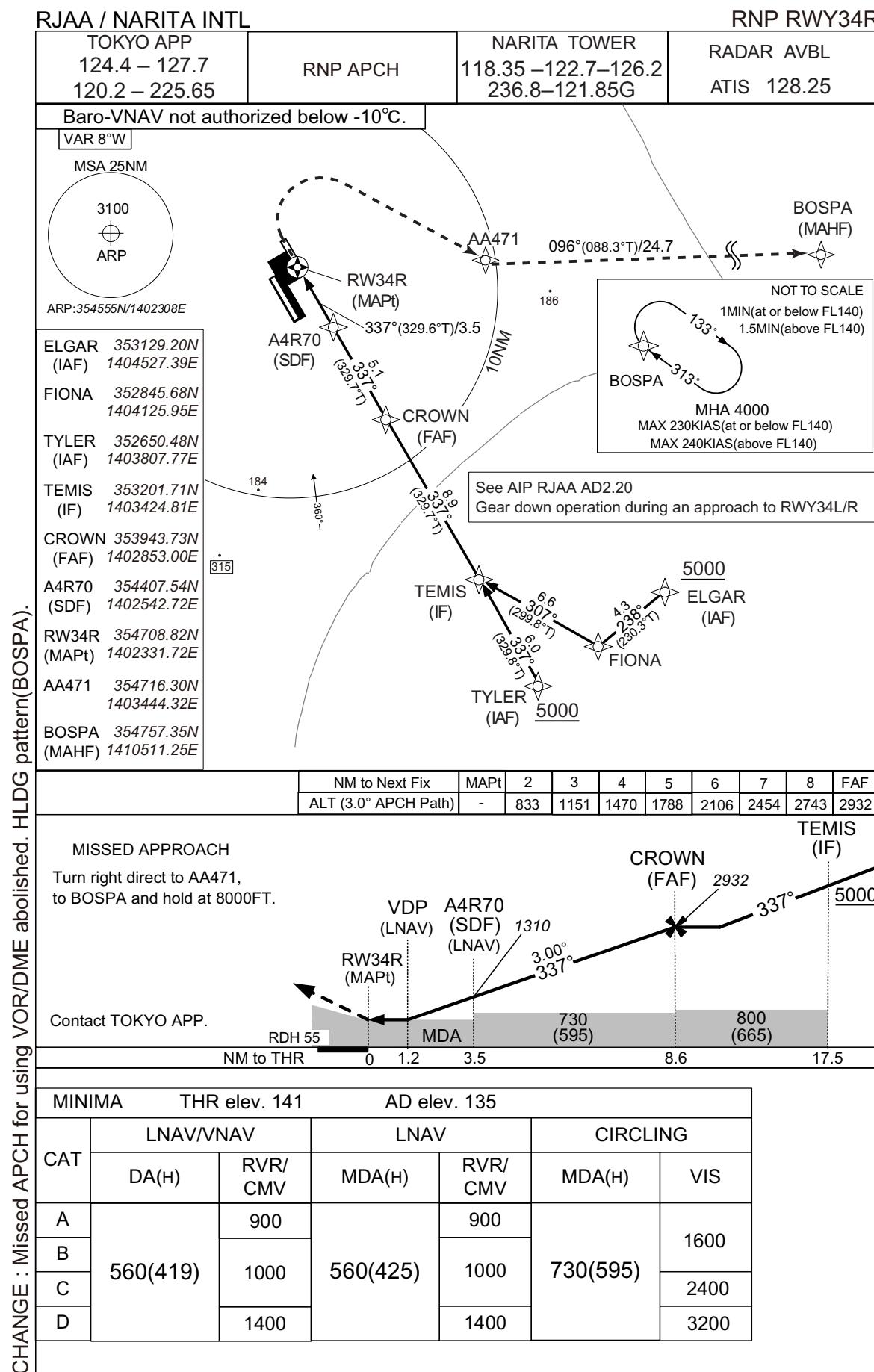
ILS Z RWY34R



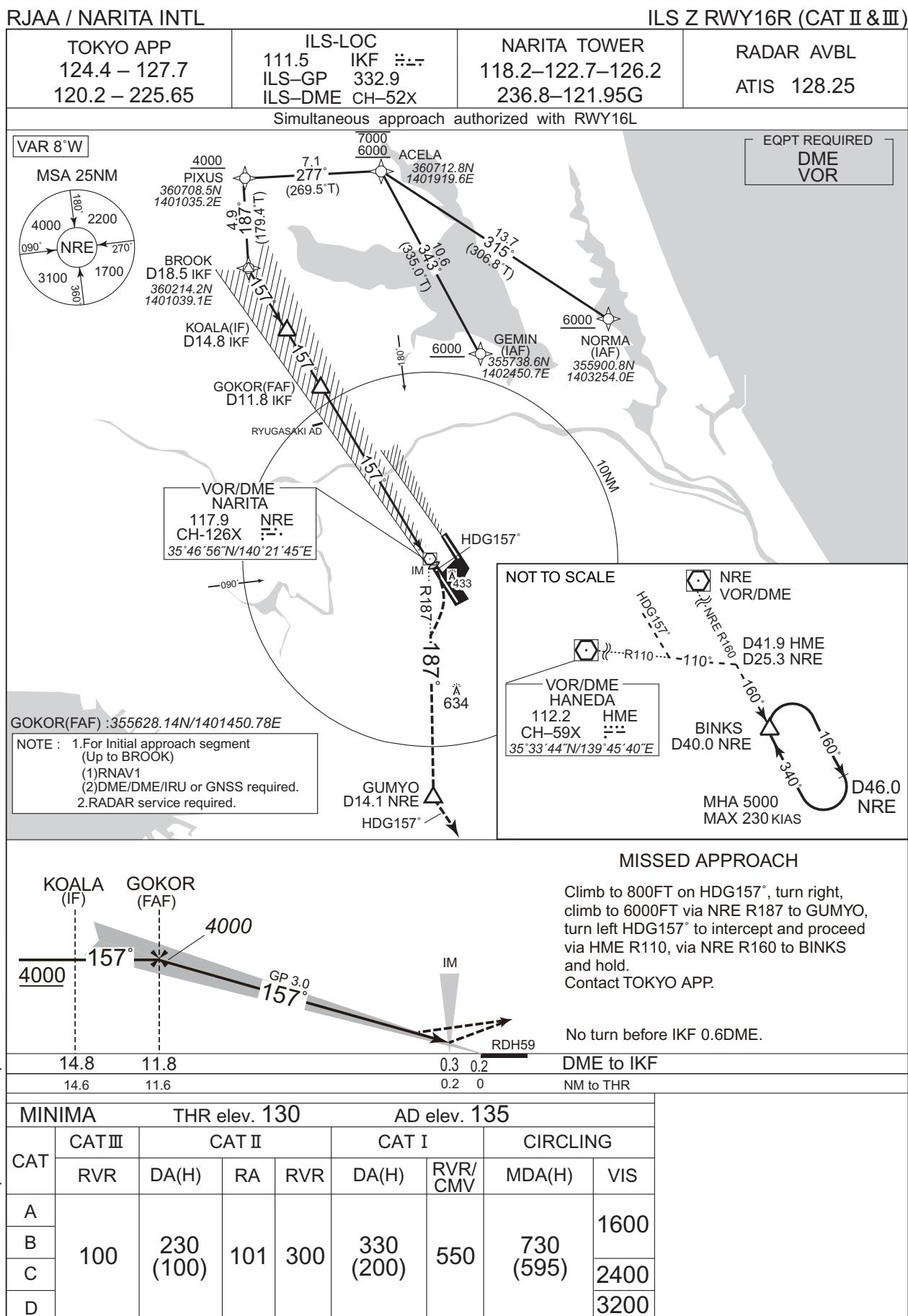
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

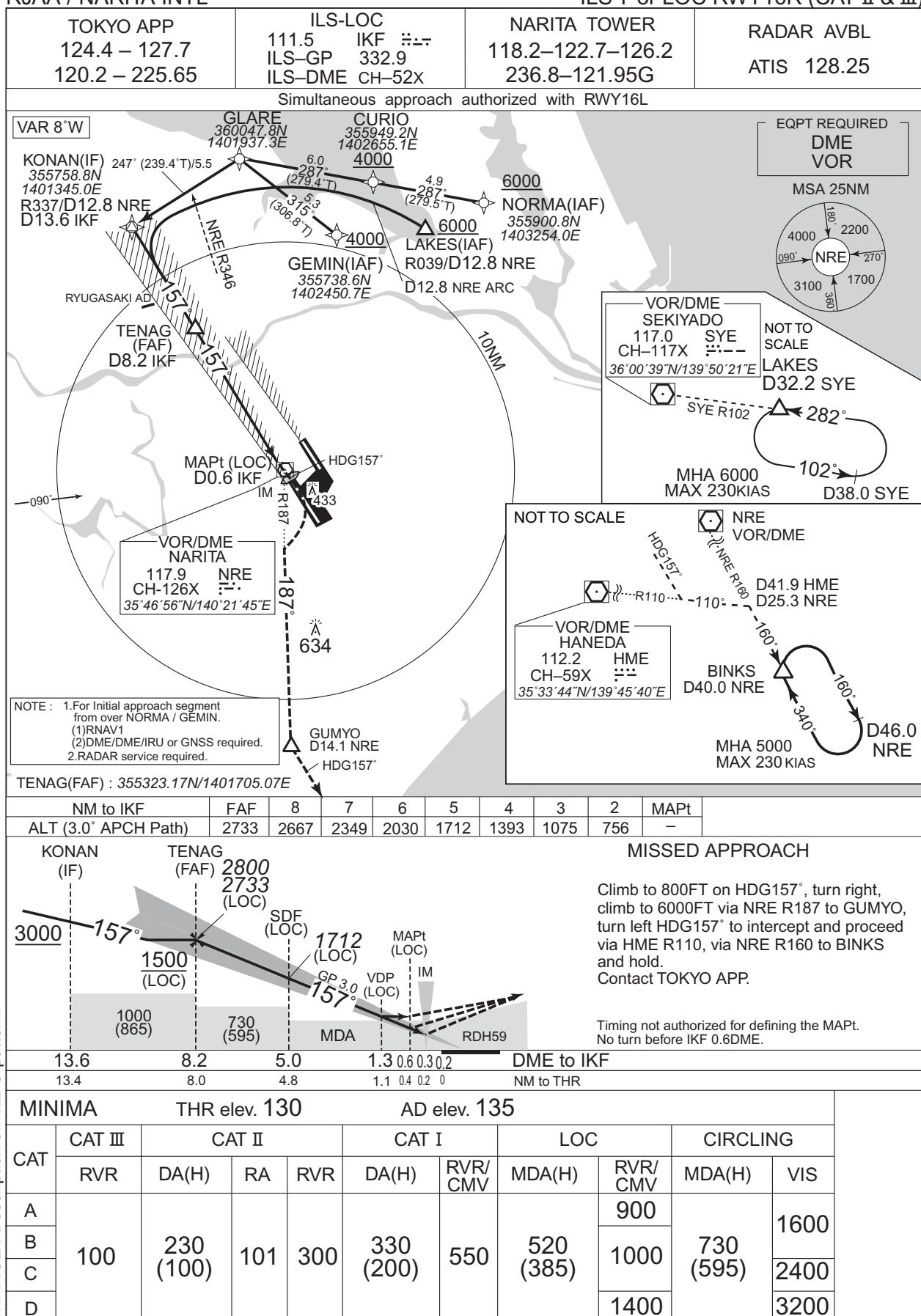


INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJAA / NARITA INTL



INSTRUMENT APPROACH CHART

RJAA / NARITA INTL

TOKYO APP 124.4 – 127.7 120.2 – 225.65	NARITA VOR/DME 117.9 NRE CH-126X :-: 35°46'56"N/140°21'45"E	NARITA TOWER 118.2–122.7–126.2 236.8–121.95G	RADAR AVBL ATIS 128.25
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NOTE : 1. For Initial approach segment from over NORMA / GEMIN.
(1)RNAV1
(2)DME/DME/IRU or GNSS required.
2.RADAR service required.

TENAG(FAF) : 355323.17N/1401705.07E

NM to NRE	FAF	7	6	5	4	3	2	1	MAPt
ALT (3.0° APCH Path)	2733	2584	2266	1947	1629	1310	992	673	—

KONAN (IF) **TENAG (FAF)** **NRE**

3000 157° 2733 157° 1469 SDF VDP MAPt

1500 1000 (865) 730 (595) MDA

12.8 7.5 3.5 0.6 0 DME to NRE

13.4 8.0 4.1 1.2 0.6 NM to THR

MISSED APPROACH

Climb to 800FT on HDG157°, turn right, climb to 6000FT via NRE R187 to GUMYO, turn left HDG157° to intercept and proceed via HME R110, via NRE R160 to BINKS and hold.
Contact TOKYO APP.

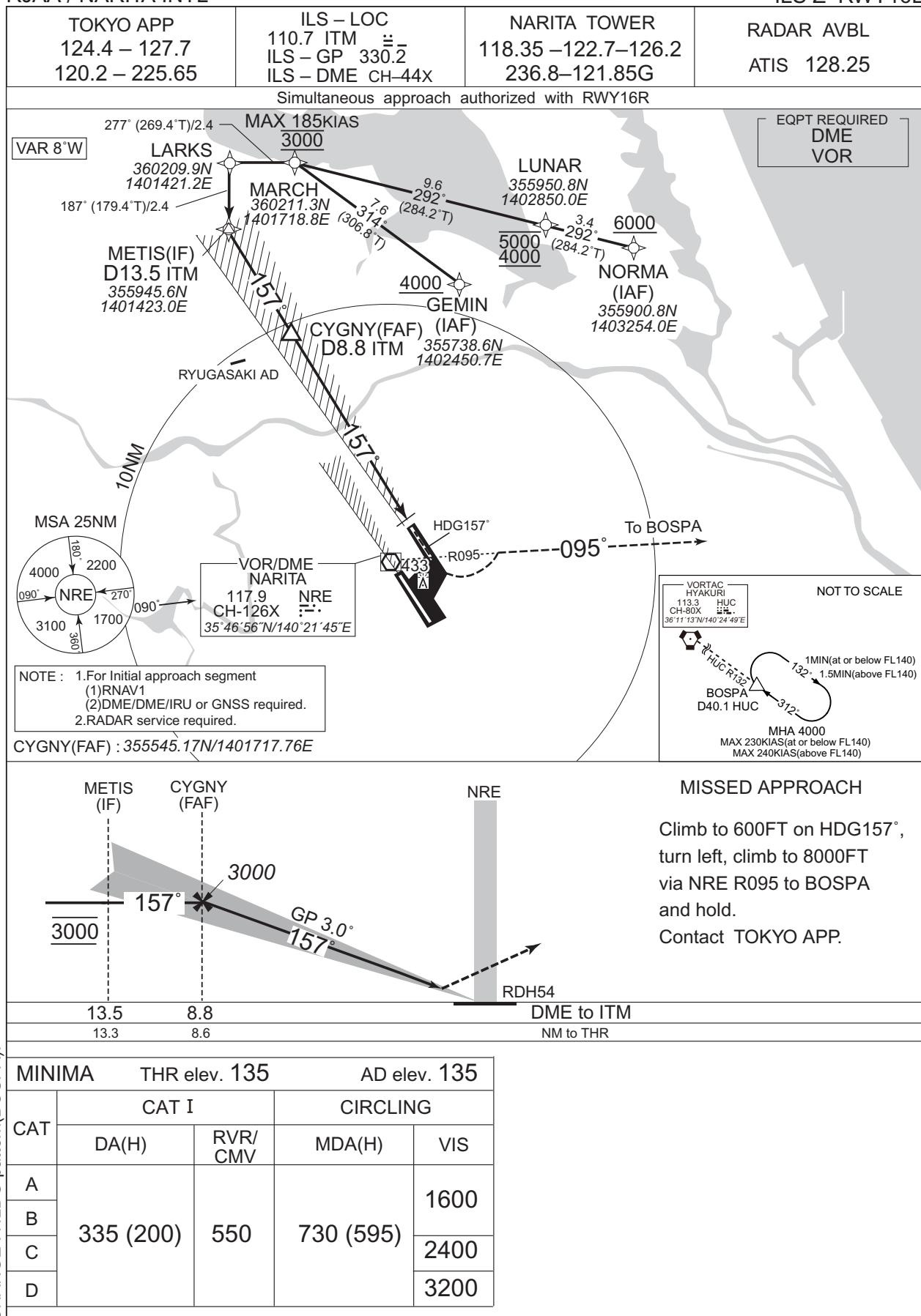
Timing not authorized for defining the MAPt.
No turn before MAPt.

MINIMA		THR elev. 130	AD elev. 135	
CAT	MDA(H)	RVR/ CMV	CIRCLING	
			MDA(H)	VIS
A	540 (405)	900	730 (595)	1600
B		1000		2400
C		1400		3200
D				

INSTRUMENT APPROACH CHART

RJAA / NARITA INTL

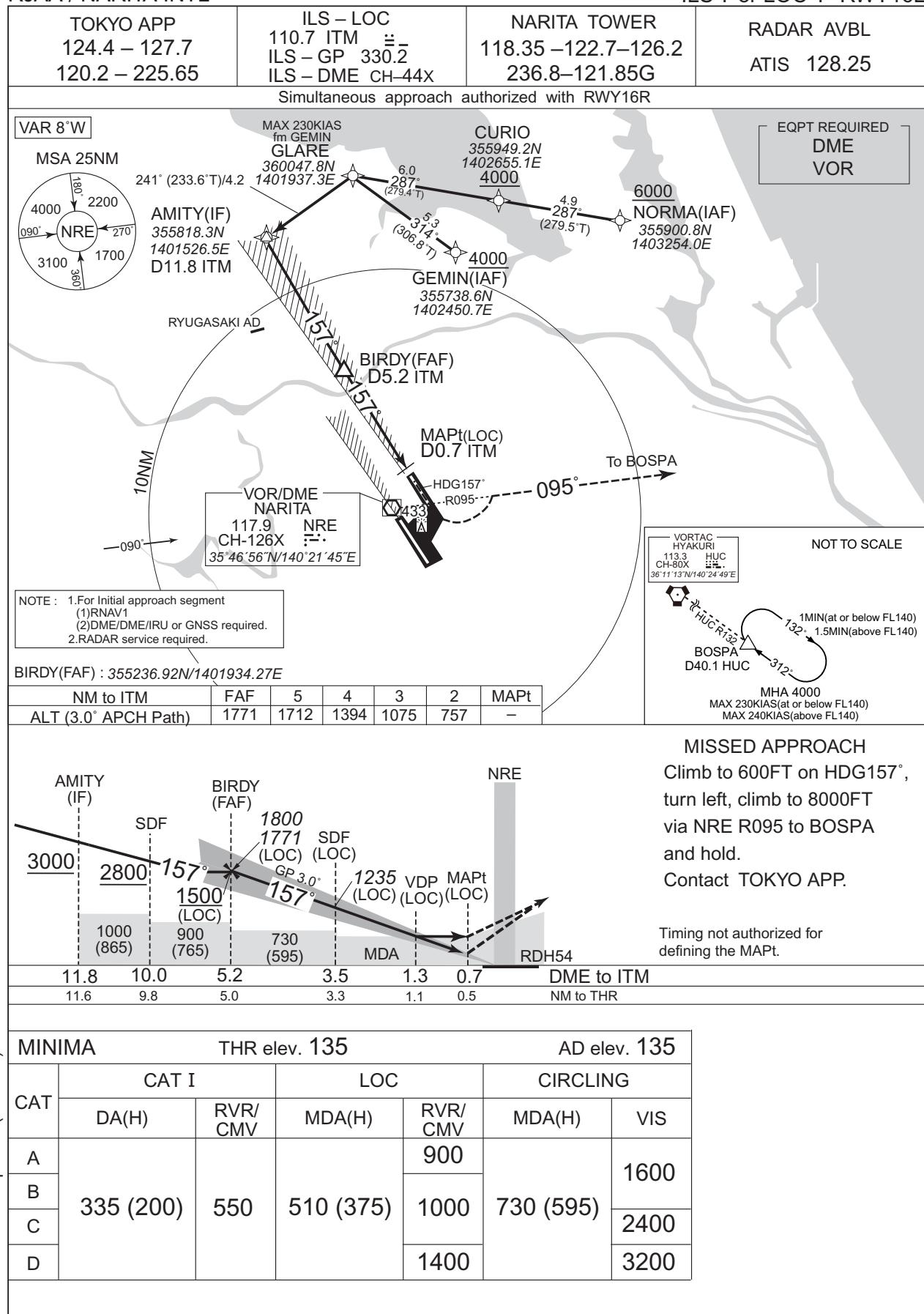
ILS Z RWY16L



INSTRUMENT APPROACH CHART

RJAA / NARITA INTL

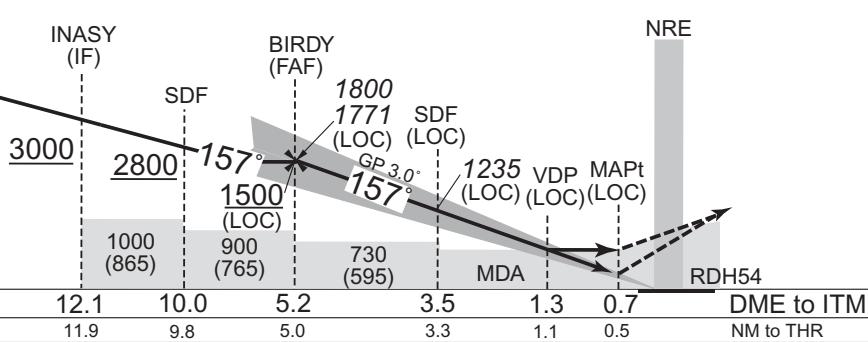
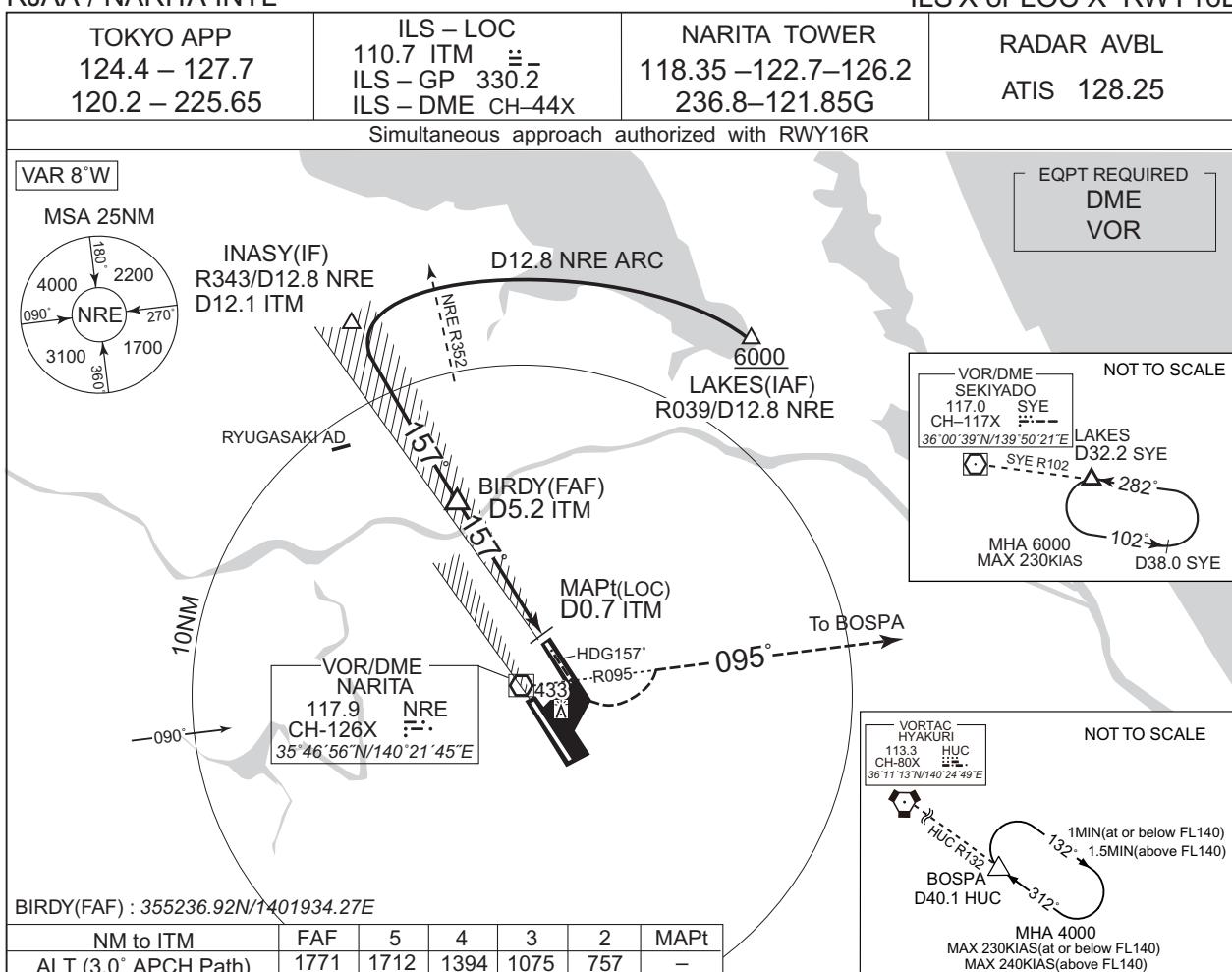
ILS Y or LOC Y RWY16L



INSTRUMENT APPROACH CHART

RJAA / NARITA INTL

ILS X or LOC X RWY16L



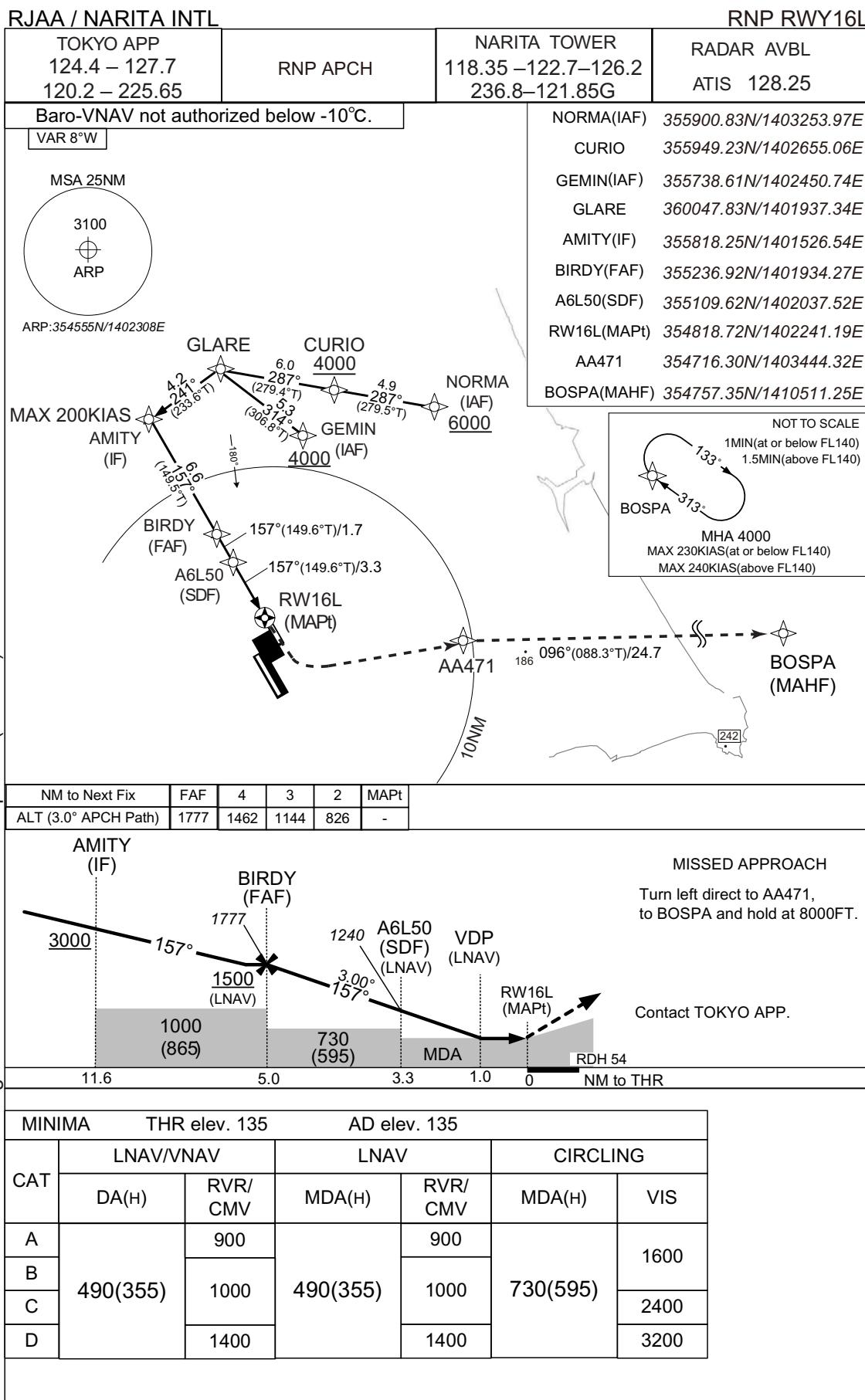
MISSED APPROACH
Climb to 600FT on HDG157°, turn left, climb to 8000FT via NRE R095 to BOSPA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A				900		
B	335 (200)	550	510 (375)	1000	730 (595)	1600
C						2400
D				1400		3200

CHANGE : HDG pattern(BOSPA)

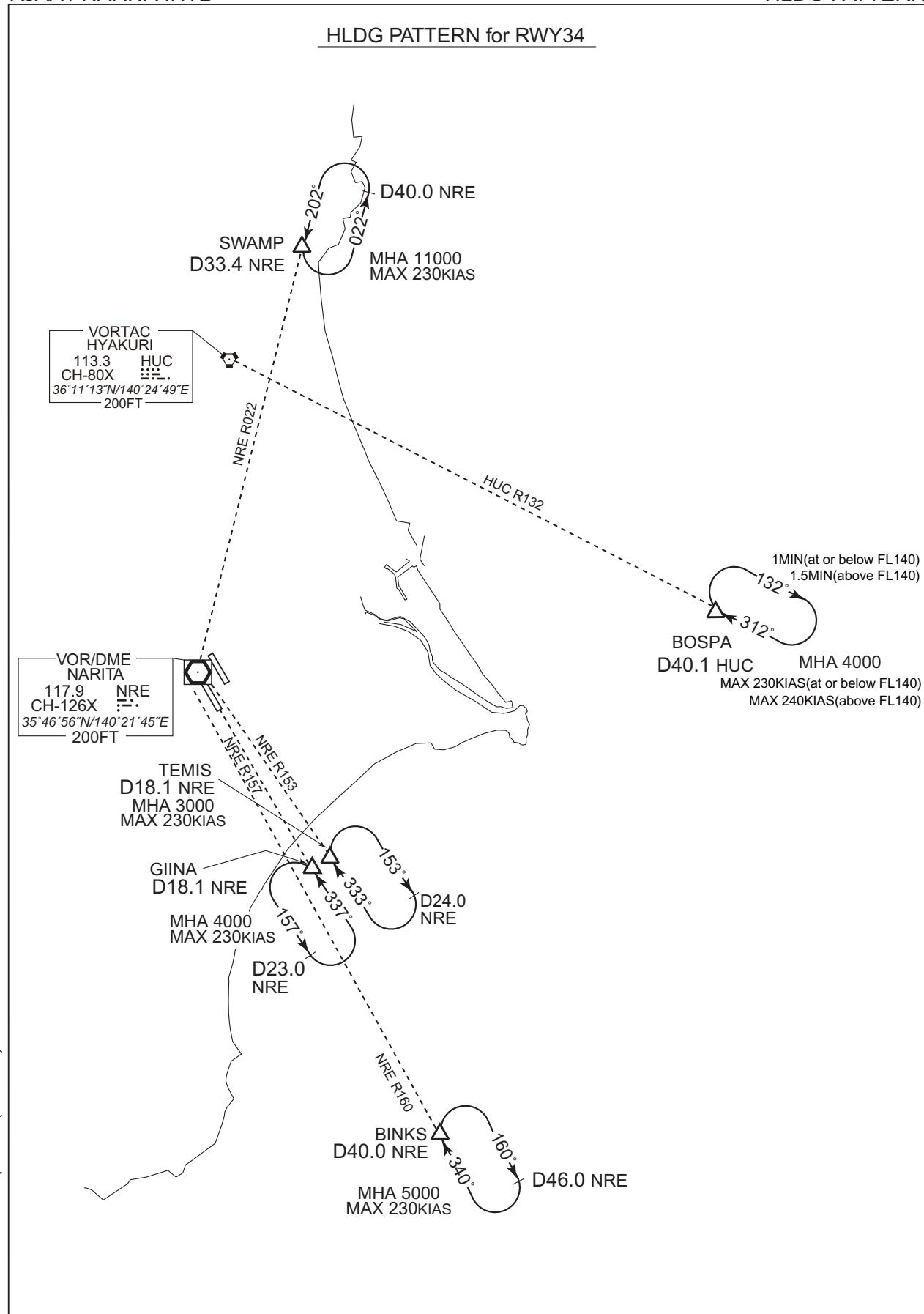
INSTRUMENT APPROACH CHART



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RJAA / NARITA INTL

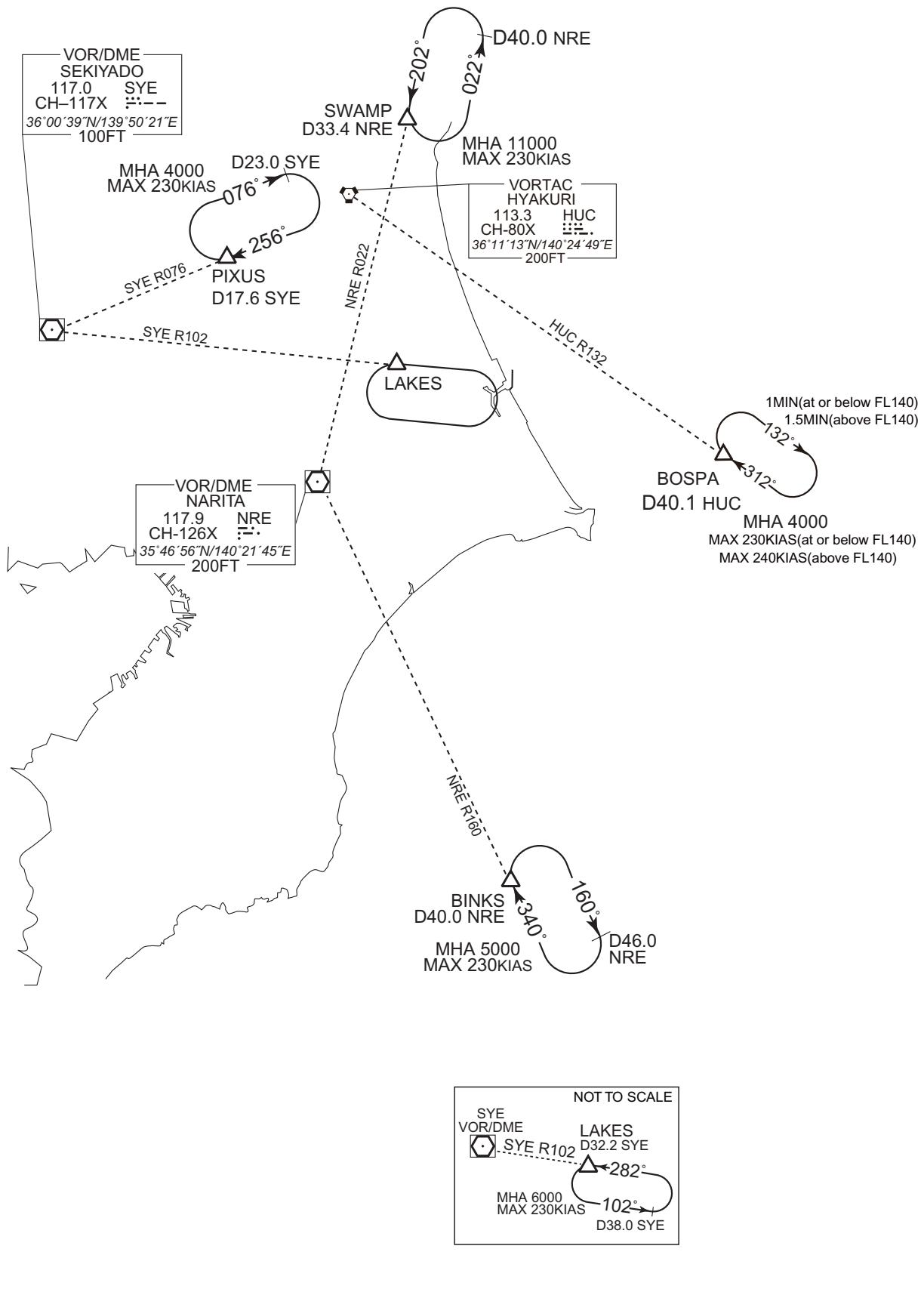
HLDG PATTERN



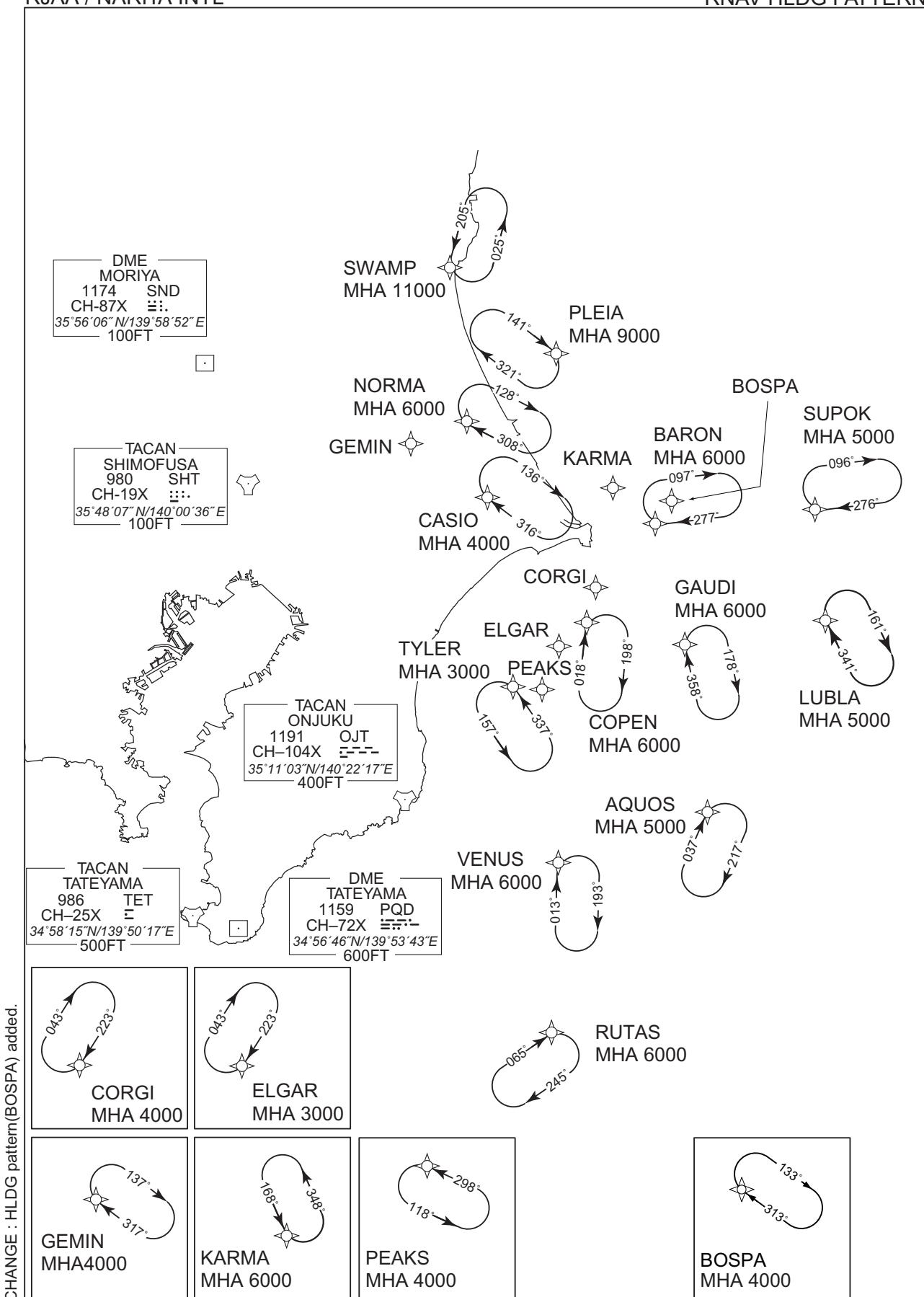
RJAA / NARITA INTL

HLDG PATTERN

HLDG PATTERN for RWY16



RJAA / NARITA INTL



RJAA / NARITA 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	AQUOS	037 (029.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	BARON	277 (270.0)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CASIO	316 (308.6)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COPEN	018 (010.5)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CORGI	223 (215.8)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ELGAR	223 (215.7)	-7.5	1.0(-14000) 1.5(+14001)	—	R	3000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GAUDI	358 (351.0)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GEMIN	317 (309.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	KARMA	168 (160.3)	-7.5	1.0(-14000) 1.5(+14001)	—	L	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	LUBLA	341 (333.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NORMA	308 (300.0)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	PEAKS	298 (290.2)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	PLEIA	141 (133.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	9000	—	-230(-14000) -240(+14001)	RNAV1
Hold	RUTAS	065 (057.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SUPOK	276 (268.6)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SWAMP	205 (197.0)	-7.5	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	TYLER	337 (329.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	3000	—	-230(-14000) -240(+14001)	RNAV1
Hold	VENUS	013 (005.8)	-7.5	1.0(-14000) 1.5(+14001)	—	R	6000	—	-230(-14000) -240(+14001)	RNAV1

Path	Waypoint Identifier	Inbound Course °M(T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)
Hold	BOSPA	313 (305.7)	-7.8	1.0(-14000) 1.5(+14001)	R	4000	—	-230(-14000) -240(+14001)

CHANGE : HLDG pattern(BOSPA) added.

RJAA / NARITA INTL

RNAV HLDG PATTERN

Waypoint Coordinates

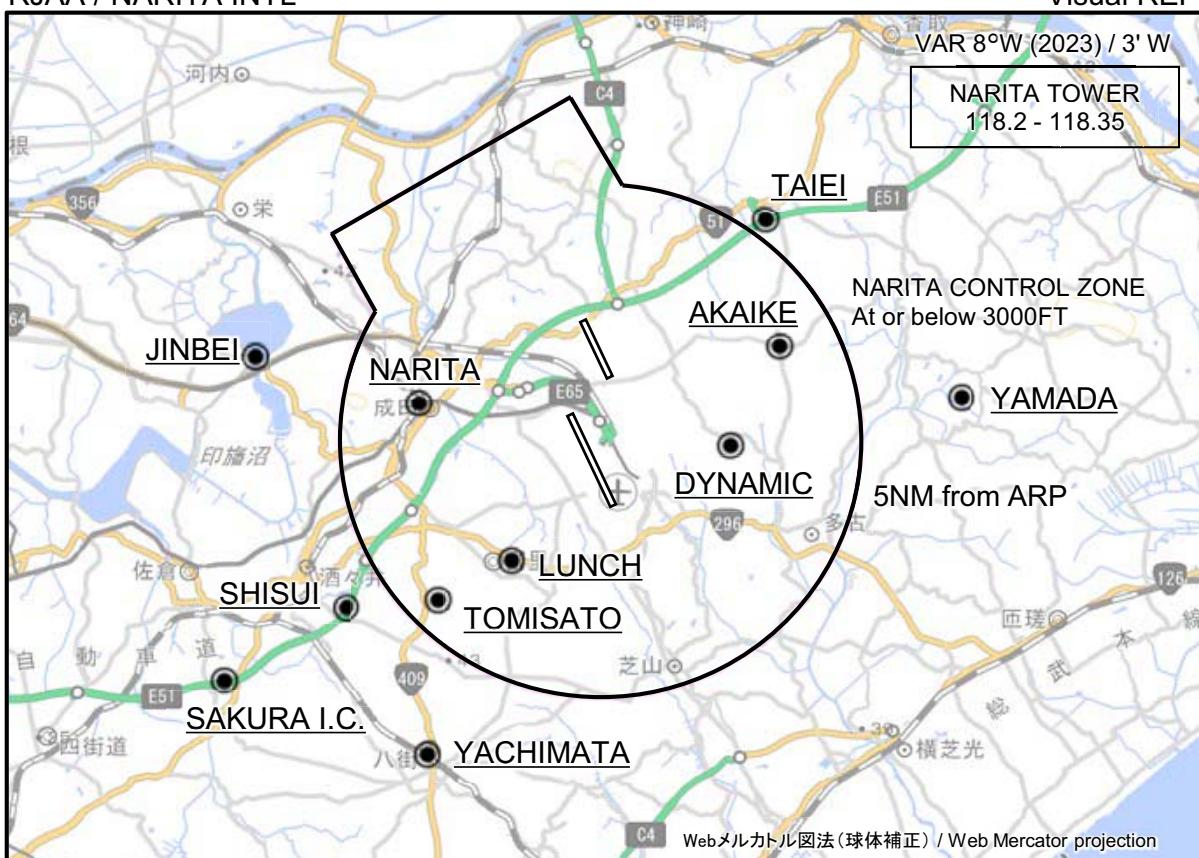
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AQUOS	351229.7N / 1410942.5E	LUBLA	353235.0N / 1412550.8E
BARON	354551.0N / 1410112.0E	NORMA	355900.8N / 1403254.0E
CASIO	355021.4N / 1403556.1E	PEAKS	352507.2N / 1404352.7E
COPEN	353303.7N / 1404939.2E	PLEIA	360734.8N / 1404745.4E
CORGI	353829.8N / 1405138.9E	RUTAS	344349.3N / 1404034.2E
ELGAR	353129.2N / 1404527.4E	SUPOK	354614.1N / 1412810.0E
GAUDI	353002.4N / 1410418.1E	SWAMP	361914.4N / 1403217.0E
GEMIN	355738.6N / 1402450.7E	TYLER	352650.5N / 1403807.8E
KARMA	355042.9N / 1405512.4E	VENUS	350440.1N / 1404309.7E

Waypoint Identifier	Coordinates
BOSPA	354757.4N / 1410511.3E

CHANGE : BOSPA added.

RJAA / NARITA INTL

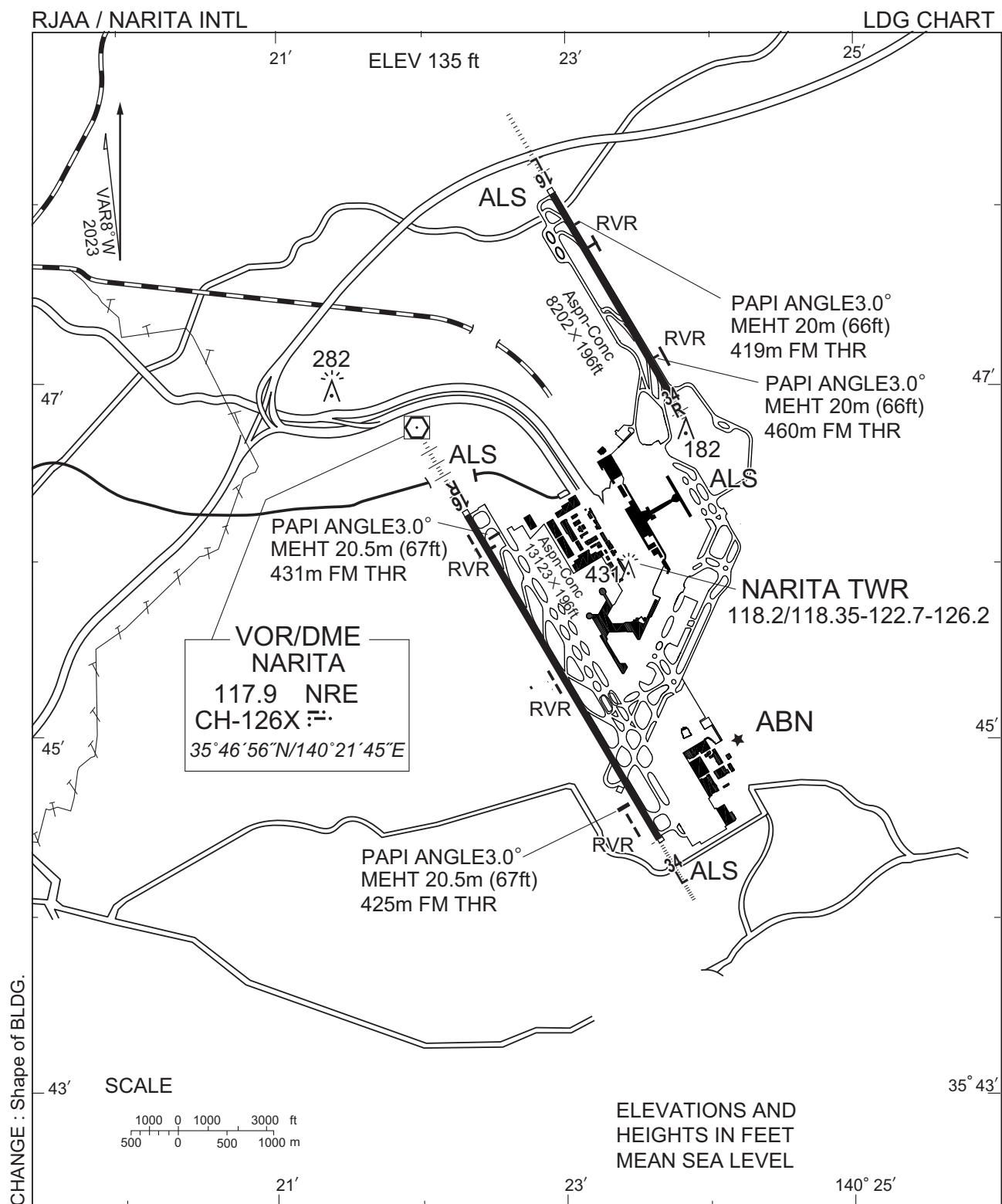
Visual REP



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

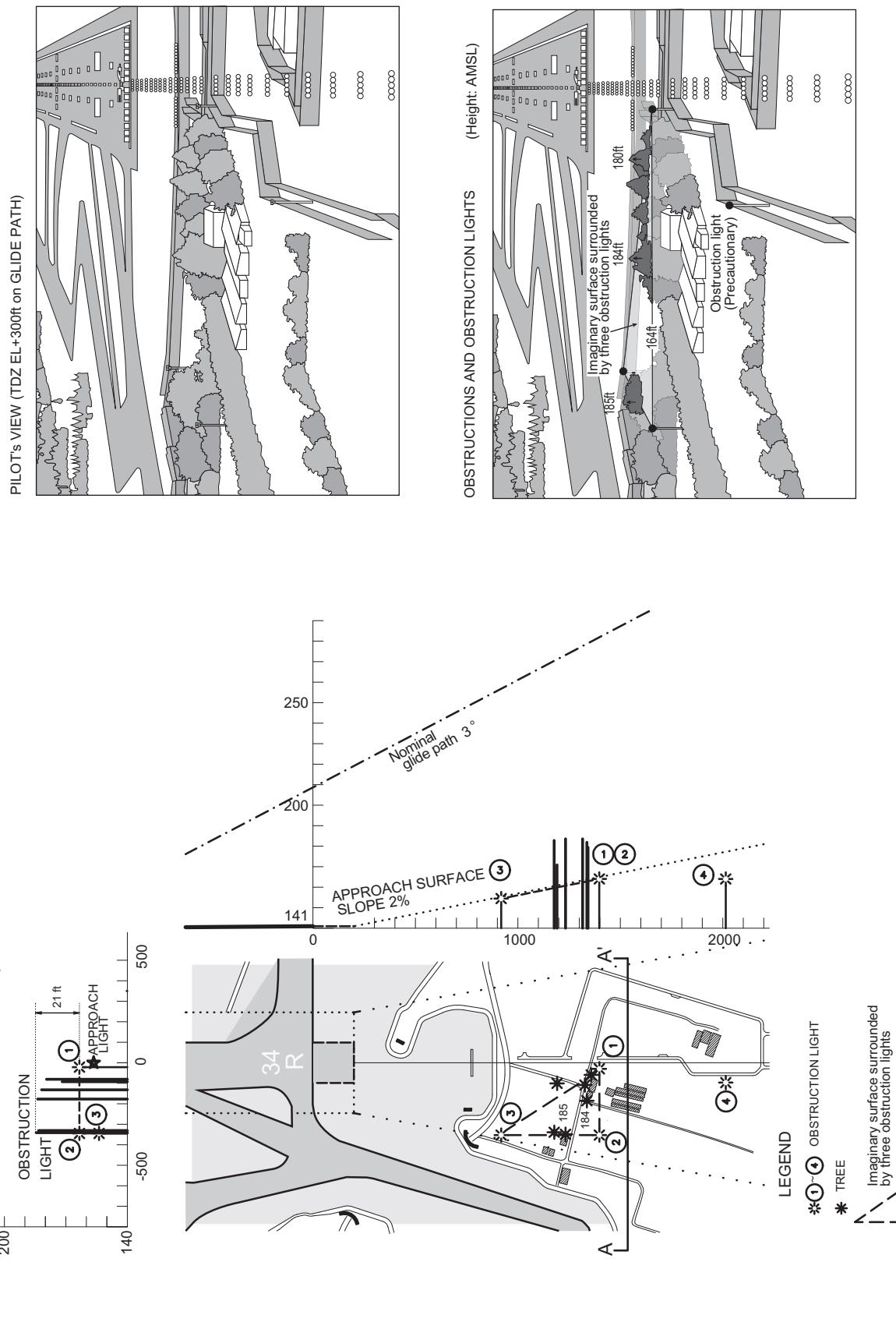
CHANGE : Visual REP abolished(Radisson).

Call sign	BRG / DIST from ARP	Remarks
大栄 Taiei	036°T / 5.3NM	東関東自動車道大栄インターチェンジ Interchange
赤池 Akaike	061°T / 3.9NM	赤池交差点 Akaike Intersection
甚兵衛 Jinbei	284°T / 6.8NM	甚兵衛大橋 Jinbei Bridge
山田 Yamada	083°T / 7.0NM	山田ARSRサイト Yamada ARSR Site
成田 Narita	282°T / 3.6NM	JR成田駅 JR Narita Station
ダイナミック Dynamic	092°T / 2.5NM	ダイナミックゴルフ俱楽部クラブハウス Dynamic Golf Club House
ランチ Lunch	216°T / 2.9NM	給食センター Lunch Center
富里 Tomisato	225°T / 4.4NM	富里第二工業団地 Industrial Park
酒々井 Shisui	236°T / 5.9NM	酒々井パーキングエリア Parking Area
佐倉インターチェンジ Sakura Interchange	237°T / 8.6NM	東関東自動車道佐倉インターチェンジ Interchange
八街 Yachimata	208°T / 7.0NM	JR八街駅 JR Station



RJAA / NARITA INTL

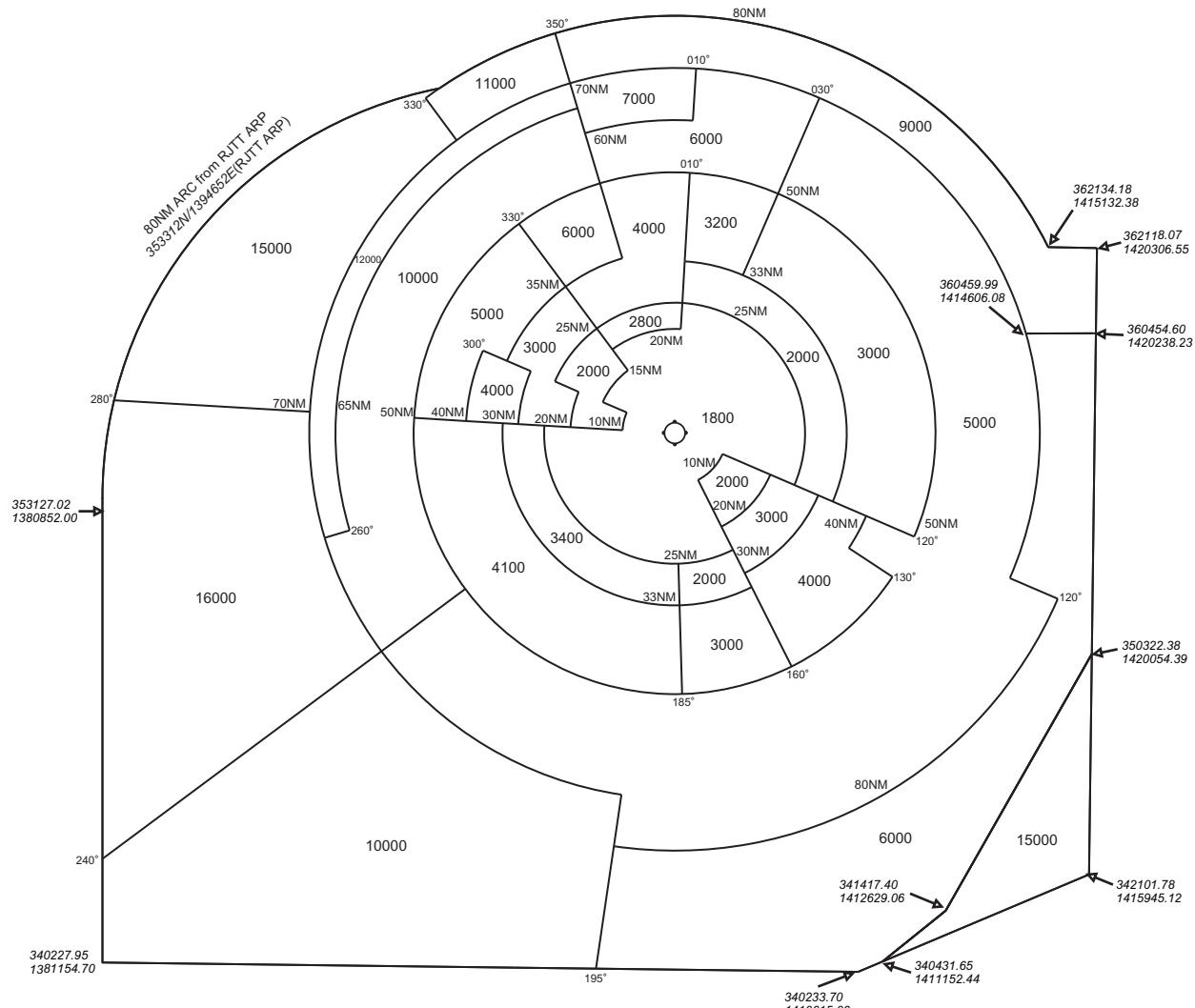
LDG CHART (Trees existence on final approach area of Runway 34R)



RJAA / NARITA INTL

Minimum Vectoring Altitude CHART

VAR 8° W(2023)



CHANGE : VAR.

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