

AD 2 AERODROMES**RJAA AD 2.1 AERODROME LOCATION INDICATOR AND NAME****RJAA - NARITA INTL****RJAA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

| | | |
|---|--|---|
| 1 | ARP coordinates and site at AD | 354555N 1402308E 178° / 0.5km from NARITA control tower 123° / 1.9km from RWY 16R THR 349° / 2.5km from RWY 34L THR 171° / 4.5km from RWY 16L THR 194° / 2.4km from RWY 34R THR |
| 2 | Direction and distance from (city) | 57.5km (31nm) E (BRG. 80° GEO.) from Tokyo Station (JR) 7.0km (3.8nm) ESE (BRG. 100° GEO.) from Narita Station (JR) |
| 3 | Elevation/ Reference temperature | 135ft / 31°C (2018-2022) |
| 4 | Geoid undulation at AD ELEV PSN | 116ft |
| 5 | MAG VAR/ Annual change | 8°W (2023) / 3' W |
| 6 | AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses | Narita International Airport Corporation (NAA) Narita INTL Airport Corporation:P.O.BOX 80 Narita INTL Airport, Narita-shi , Chiba Pref Japan 282-8601 AFS: RJAAYDYX Tel: 0476-34-5635 Fax: 0476-30-1577 |
| 7 | Types of traffic permitted (IFR/VFR) | IFR/VFR |
| 8 | Remarks | Narita Airport Office (Civil Aviation Bureau) Airport Administration Building , Narita INTL Airport , Narita-shi , Chiba Pref Japan 282-8601 Tel: 0476-32-0909 (2330-0815UTC SUN-THU(EXC HOL)) |

RJAA AD 2.3 OPERATIONAL HOURS

| | | |
|----|---------------------------|--|
| 1 | AD Administration | H24. (See RJAA AD 2.20) |
| 2 | Customs and immigration | Customs: 2100-1400 Immigration: 2030-1500 |
| 3 | Health and sanitation | Quarantine(human): 2100-1530 Quarantine(animal, plant): 2100-1500 |
| 4 | AIS Briefing Office | Nil |
| 5 | ATS Reporting Office(ARO) | Nil |
| 6 | MET Briefing Office | H24 |
| 7 | ATS | H24 |
| 8 | Fuelling | H24 |
| 9 | Handling | H24 |
| 10 | Security | H24 |
| 11 | De-icing | H24 |
| 12 | Remarks | Nil |

RJAA AD 2.4 HANDLING SERVICES AND FACILITIES

| | | |
|---|---|---|
| 1 | Cargo-handling facilities | All the modern institutions that deal with the weight thing to a Boeing 747 type freighter. |
| 2 | Fuel/ oil types | Fuel grades: Jet A-1. Oil grades: All turbine grades. |
| 3 | Fuelling facilities/ capacity | Hydrant refuelling and fuel truck refuelling. |
| 4 | De-icing facilities | By arrangement with handling agent. |
| 5 | Hangar space for visiting aircraft | By arrangement with operating airlines. |
| 6 | Repair facilities for visiting aircraft | By arrangement with operating airlines. |
| 7 | Remarks | Nil |

RJAA AD 2.5 PASSENGER FACILITIES

| | | |
|---|----------------------|---|
| 1 | Hotels | Hotels around the airport. |
| 2 | Restaurants | At Airport |
| 3 | Transportation | Railways, buses and taxis. |
| 4 | Medical facilities | First aid treatment, ambulance; hospitals in Narita city 10km . |
| 5 | Bank and Post Office | At Airport |
| 6 | Tourist Office | At Airport |
| 7 | Remarks | Nil |

RJAA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

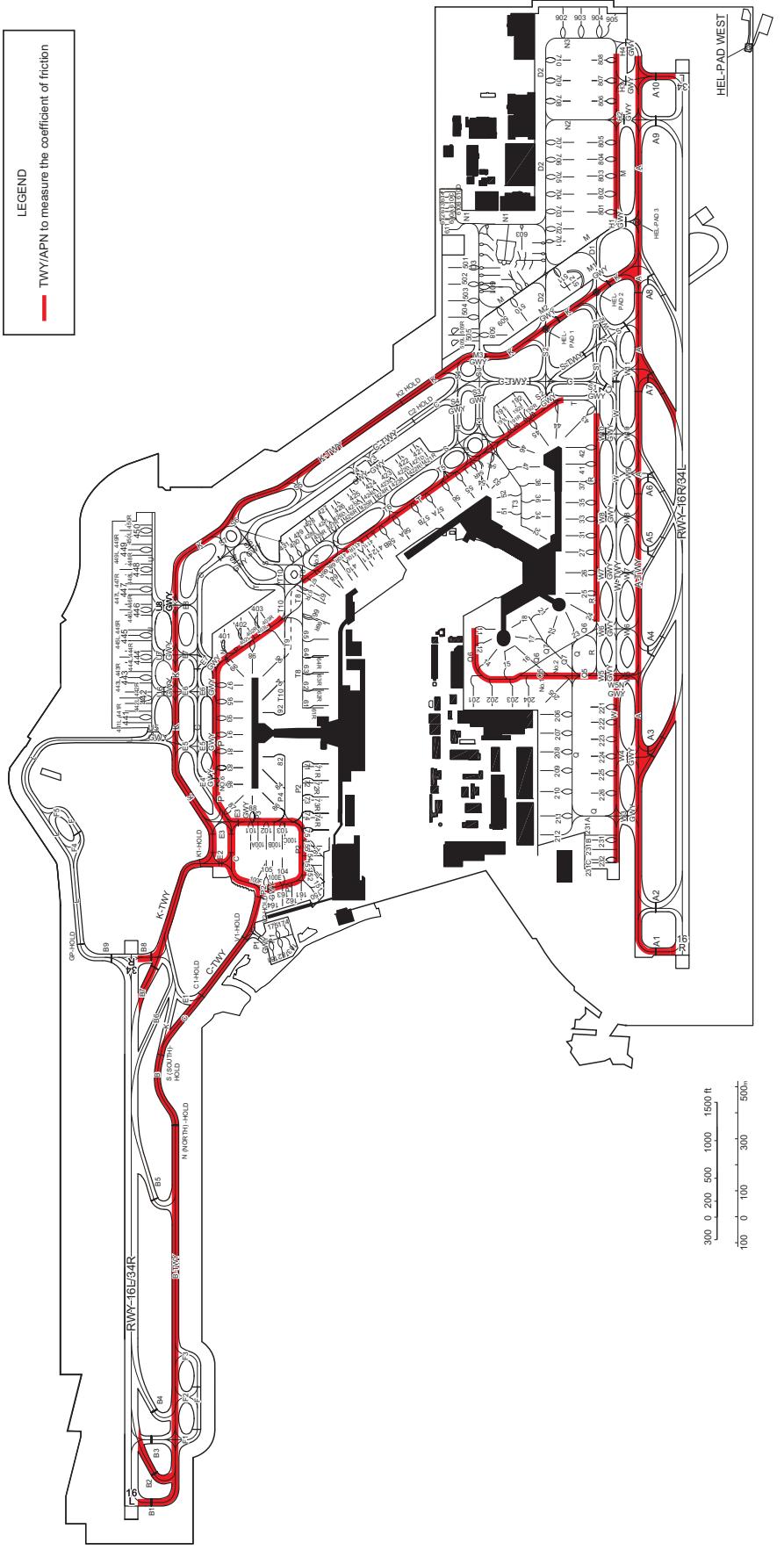
| | | |
|---|---|--|
| 1 | AD category for fire fighting | CAT 10 |
| 2 | Rescue equipment | Chemical fire fighting truck x 6 Water-supply truck x 3, Emergency medical equipments conveyance truck, Small sized emergency medical equipments conveyance truck, Destructive wrecking truck Form tank Ambulance x 2 Mobile command post |
| 3 | Capability for removal of disabled aircraft | B747-400 or B777-300ER JAL STATION CONTROLLER (0476-34-3401) |
| 4 | Remarks | Nil |

RJAA AD 2.7 SEASONAL AVAILABILITY-CLEARING

| | | |
|---|-----------------------------|--|
| 1 | Types of clearing equipment | Snow Removal Equipment : snow plough x 14, snow sweeper x 7 , snow blower x 4 |
| 2 | Clearance priorities | Seasonal availability: All seasons. In general, the following priorities will be established for the clearing of the movement areas: RWY 16R/34L,TWY associated with RWY 16R/34L, Apron. |
| 3 | Remarks | TWY/APN to measure the coefficient of friction: TWY: A, A1, A3, A7, A10, W (W5NGWY - SPOT 232), Q6 (SPOT 11 - Q5), Q5, W5, R (SPOT 24 - SPOT 42), T (SPOT 44 - T8), P (T10 - C), M (SPOT 801 - SPOT 808), K (A - B8),C (P - B), P2 (C - P3), P3, E2, B, B1, B2, B7, B8 (See attached chart) SPOT: ALL |

TWY/APN to measure the coefficient of friction

LEGEND
— TWY/APN to measure the coefficient of friction



RJAA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

| | | |
|---|-------------------------------------|--|
| 1 | Apron surface and strength | Surface : Concrete Strength : PCN 140/R/C/X/T except PCN 65/R/B/X/T NR174, 175, 181, 182, 183, 610A, 610B, 610C, 610D, 611, 612, 613, 614 |
| 2 | Taxiway width, surface and strength | Width: 30m except 25m on TWY C between B and P2-GWY, TWY K between S4 and E7, TWY C between S1 and S3, TWY T4 between S and S4-GWY, TWY T between S7-GWY and T10, TWY S7, TWY B6, A3, A4, A5, A6, A7 and A8, TWY E8, U8-GWY TWY L between F5 and K, U5-GWY 23m on TWY K between B8 and E2, TWY P1 between C and P1-GWY Surface: Asphalt except Concrete on TWY A between A1 and W3-GWY, A9 and A10 Concrete on TWY B between B1 and B4 Strength : PCN 140/F/C/X/T except PCN 140/R/C/X/T on TWY A between A1 and W3-GWY, A9 and A10 PCN 129/F/C/W/T on TWY B between B4 and K, TWY K between B and E5 PCN 129/R/C/X/T on TWY B between B1 and B4 PCN 74/F/C/X/T on TWY P1 between C and P1-GWY |
| 3 | ACL and elevation | Location : Any portion on the apron areas available Elevation : Terminal apron-40m Maintenance apron-41m |
| 4 | VOR checkpoints | Not available |

| | | |
|---|-----------------|---|
| 5 | INS checkpoints | Spot NR 11 354600.51N 1402304.94E 12 354601.98N 1402304.50E 14 354602.87N 1402303.03E 15 354602.58N 1402301.34E 16 354601.31N 1402300.44E 17 354559.91N 1402300.98E 18 354558.99N 1402302.42E 21 354553.88N 1402258.58E 22 354554.25N 1402256.42E 23 354553.18N 1402255.14E 24 354551.94N 1402255.13E 25 354550.50N 1402256.92E 26 354547.90N 1402258.80E 27 354545.30N 1402300.67E 31 354543.18N 1402302.14E 32 354545.21N 1402305.37E 33 354541.08N 1402303.65E 34 354542.15N 1402306.79E 35 354538.99N 1402305.17E 36 354540.06N 1402308.31E 37 354536.37N 1402307.18E 38 354537.86N 1402309.62E 41 354534.12N 1402308.77E 42 354531.99N 1402310.21E 43 354530.67N 1402311.50E 44 354531.57N 1402313.00E 45 354533.14N 1402313.60E 46 354535.20N 1402315.12E 47 354536.69N 1402313.06E 51 354545.48N 1402315.31E 52 354543.69N 1402316.61E 53 354542.83N 1402318.28E 54 354543.67N 1402319.83E 54R 354543.33N 1402319.81E 54L 354541.97N 1402319.82E 55 354545.26N 1402320.42E 56 354547.48N 1402321.65E 57A 354550.23N 1402323.17E 57B 354552.40N 1402324.81E 58A 354555.32N 1402326.27E 58B 354557.54N 1402327.50E 61 354622.57N 1402323.82E 61R 354623.13N 1402324.18E 62 354620.48N 1402325.34E 62R 354621.07N 1402325.62E 63 354618.38N 1402326.85E 63R 354618.85N 1402327.13E 64 354616.28N 1402328.37E 64R 354616.70N 1402328.65E 65 354614.19N 1402329.88E 66 354612.33N 1402330.90E 66R 354612.54N 1402331.19E 67 354609.61N 1402332.49E 67L 354608.97N 1402333.31E 67R 354610.33N 1402331.70E 68 354606.86N 1402332.48E 68L 354605.96N 1402332.79E 68R 354607.08N 1402332.63E 71 354629.98N 1402318.47E 71R 354630.41N 1402318.74E 72 354632.08N 1402316.95E 72R 354632.55N 1402317.25E 73 354634.18N 1402315.44E 73R 354634.76N 1402315.68E 74 354636.28N 1402313.92E 74R 354636.87N 1402314.20E 75 354638.37N 1402312.41E 76 354642.28N 1402310.33E 77 354645.24N 1402308.20E |
|---|-----------------|---|

| | | |
|---|-----------------|---|
| 5 | INS checkpoints | 221 354603.21N 1402242.92E 222 354605.04N 1402241.28E 223 354607.23N 1402239.83E 224 354609.40N 1402238.26E 225 354611.57N 1402236.69E 226 354614.07N 1402234.89E 231 354620.39N 1402231.23E 231A 354619.92N 1402231.56E 231B 354621.61N 1402230.34E 231C 354623.29N 1402229.12E 232 354622.90N 1402229.41E 401 354620.70N 1402346.98E 402 354617.95N 1402345.45E 402L 354619.19N 1402346.16E 402R 354618.33N 1402344.85E 403 354615.19N 1402343.93E 403L 354616.53N 1402344.65E 403R 354615.58N 1402343.33E 410 354604.27N 1402330.96E 410L 354603.35N 1402331.32E 410R 354604.99N 1402331.35E 411 354601.65N 1402329.51E 411L 354600.73N 1402329.87E 411R 354602.44N 1402329.71E 412 354559.64N 1402328.93E 421 354543.01N 1402334.72E 421L 354543.94N 1402334.71E 421R 354543.10N 1402334.01E 422 354545.50N 1402336.06E 422L 354546.41N 1402336.09E 422R 354545.58N 1402335.40E 423 354548.13N 1402337.52E 423L 354549.05N 1402337.55E 423R 354548.21N 1402336.85E 424 354550.65N 1402338.91E 424L 354551.56N 1402338.94E 424R 354550.72N 1402338.25E 425 354553.13N 1402340.29E 425L 354554.04N 1402340.32E 425R 354553.21N 1402339.62E 426 354555.62N 1402341.66E 426L 354556.53N 1402341.70E 426R 354555.69N 1402341.00E 427 354558.31N 1402343.21E 427L 354559.25N 1402342.76E 427R 354557.64N 1402342.91E 428 354600.90N 1402344.64E 428L 354601.84N 1402344.19E 428R 354600.23N 1402344.35E 429 354603.16N 1402344.82E 430 354604.46N 1402345.54E 431 354605.60N 1402346.66E 441 354638.90N 1402354.49E 441L 354639.25N 1402353.49E 441R 354638.01N 1402354.34E 442 354636.46N 1402356.26E 442L 354636.80N 1402355.26E 442R 354635.56N 1402356.11E 443 354634.01N 1402358.02E 443L 354634.56N 1402357.45E 443R 354633.29N 1402358.23E 444 354631.54N 1402359.83E 444L 354631.79N 1402358.62E 444R 354630.56N 1402359.50E 445 354629.10N 1402401.59E |
|---|-----------------|---|

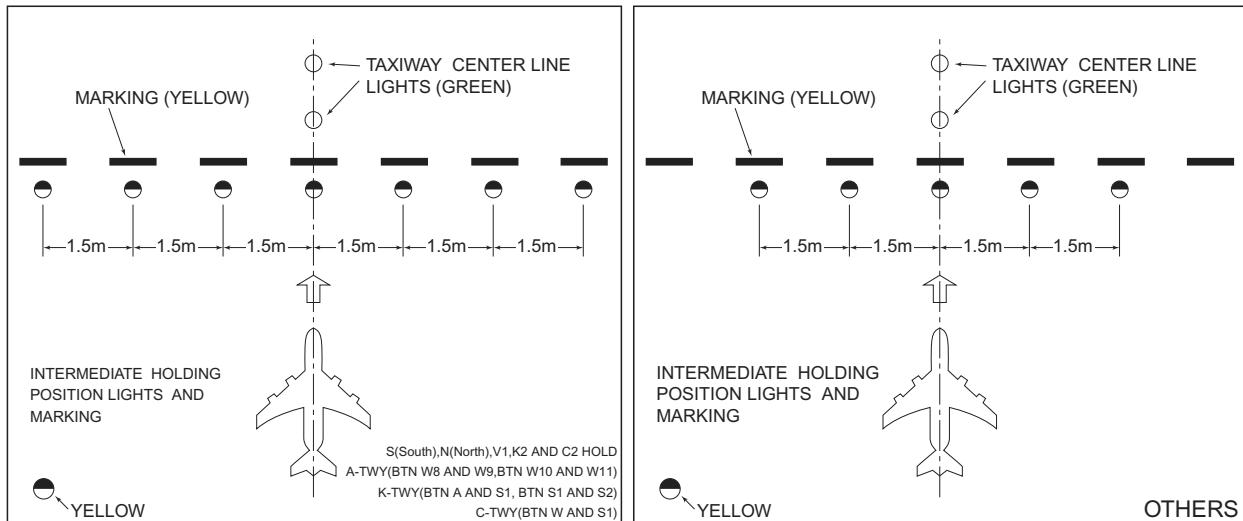
| | | | |
|---|-----------------|--|--|
| 5 | INS checkpoints | 701 354506.04N 1402329.49E 702 354503.83N 1402329.27E 703 354501.63N 1402330.86E 704 354459.44N 1402332.44E 705 354457.24N 1402334.03E 706 354455.05N 1402335.61E 707 354452.85N 1402337.20E 708 354447.18N 1402341.29E 709 354444.88N 1402342.96E 710 354442.57N 1402344.63E | 801 354500.69N 1402328.75E 802 354458.41N 1402330.40E 803 354456.12N 1402332.05E 804 354454.00N 1402333.59E 805 354451.87N 1402335.12E 806 354446.19N 1402339.22E 807 354443.88N 1402340.89E 808 354441.58N 1402342.56E 902 354436.71N 1402351.15E 903 354435.35N 1402348.32E 904 354434.00N 1402345.49E 905 354433.63N 1402340.92E |
| 6 | Remarks | Nil | |

RJAA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

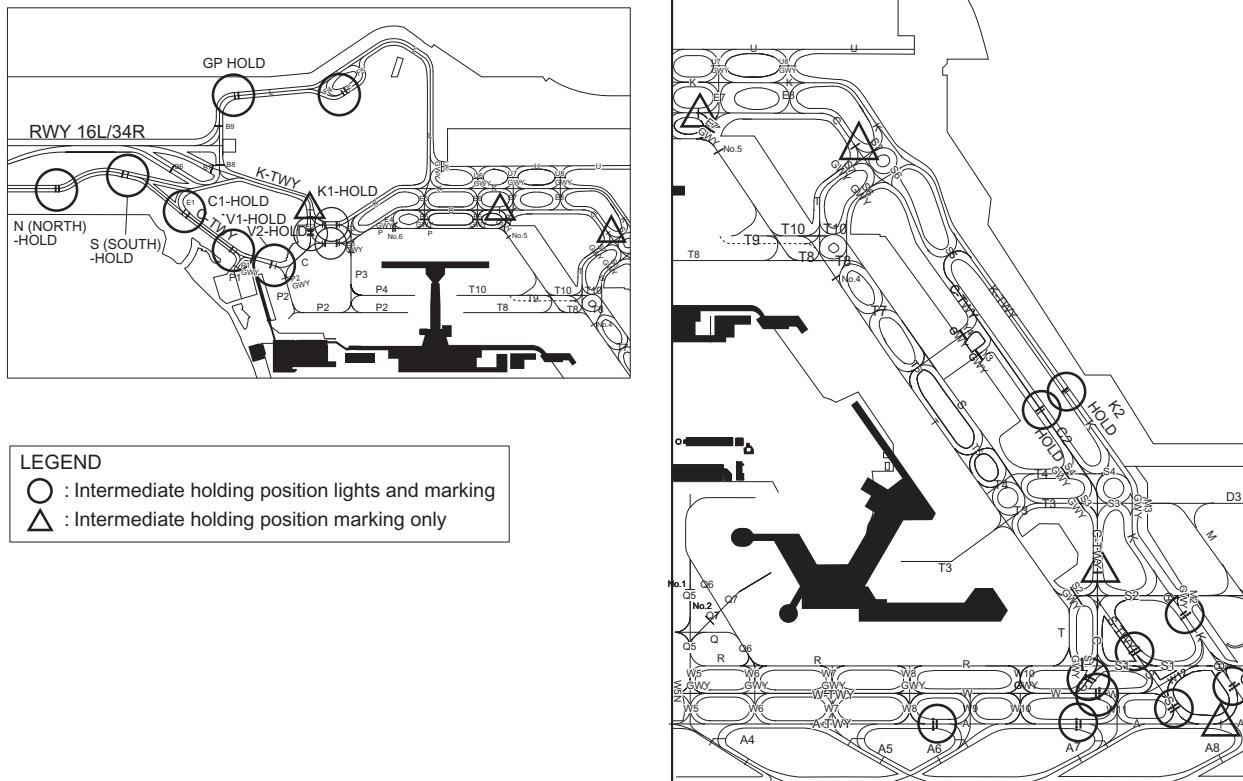
| | | |
|---|--|---|
| 1 | Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands | ACFT stand ID signs : NR11,12,14-18, 21-27, 31-38, 41-47, 51-56, 57A, 57B, 58A, 58B, 61-68, 71-77, 81-88, 91-99, 151-155, 161-164, 174, 175, 201-212, 231, 232 ACFT stand taxilane : See AD2.24 Aerodrome Ground Movement Chart Visual docking guidance system : See attachment |
| 2 | RWY and TWY markings and LGT | RWY 16R/34L, 16L/34R: (Marking) RWY designation, RWY CL, RWY THR, Aiming point, TDZ, RWY middle point, RWY side stripe (LGT) RCLL , REDL, RTHL , RENL , RTZL , WBAR TWY: (Marking) TWY CL, RWY HLDG PSN, Mandatory instruction, TWY side stripe, Intermediate HLDG PSN(See attached chart), SFC painted location sign (See attached chart), SFC painted direction sign (See attached chart) (LGT) TWY edge LGT, TWY CL LGT, Taxiing guidance signs, Stop bar LGT (A1 - A10, B1 - B9) , RWY guard LGT (A1 - A10, B1 - B9), Intermediate HLDG PSN LGT (See attached chart) |
| 3 | Stop bars | Stop Bar Light Operations: 1) Stop bar lights are installed at each runway-holding position associated with RWY 16R/34L and 16L/34R. 2) Stop bar lights will be operated when the visibility or the lowest RVR of RWY 16R/34L and 16L/34R is at or less than 600m(1968ft) 3) Stop bar lights on TWY A1, A2, B8 and B9 are controlled individually by ATC. 4) Stop bar lights on TWY A3 - A10, B1 - B7 are not controlled individually by ATC. 5) During the period stop bar lights are operated, TWY A3 - A10, B1 - B7 are not available for the departing aircraft. |
| 4 | Remarks | Apron: (Marking) ACFT stand, Taxilane CL, Taxilane side stripe and Stand ID (LGT) Apron stop bar LGT Other: (Marking) Overrun area |

Intermediate Holding Position Lights and Markings

1. The intermediate holding position lights and Markings identify the position where aircraft is to hold to prevent collision with other aircraft on the taxiway. The intermediate holding position lights operate simultaneously with the taxiway center line lights. The intermediate holding position lights consist of 5 or 7 yellow lights and the markings consist of a single broken line as illustrated in the figure below:
2. Operational procedure
The aircraft shall hold in front of these lights and markings only when instructed by ATC.

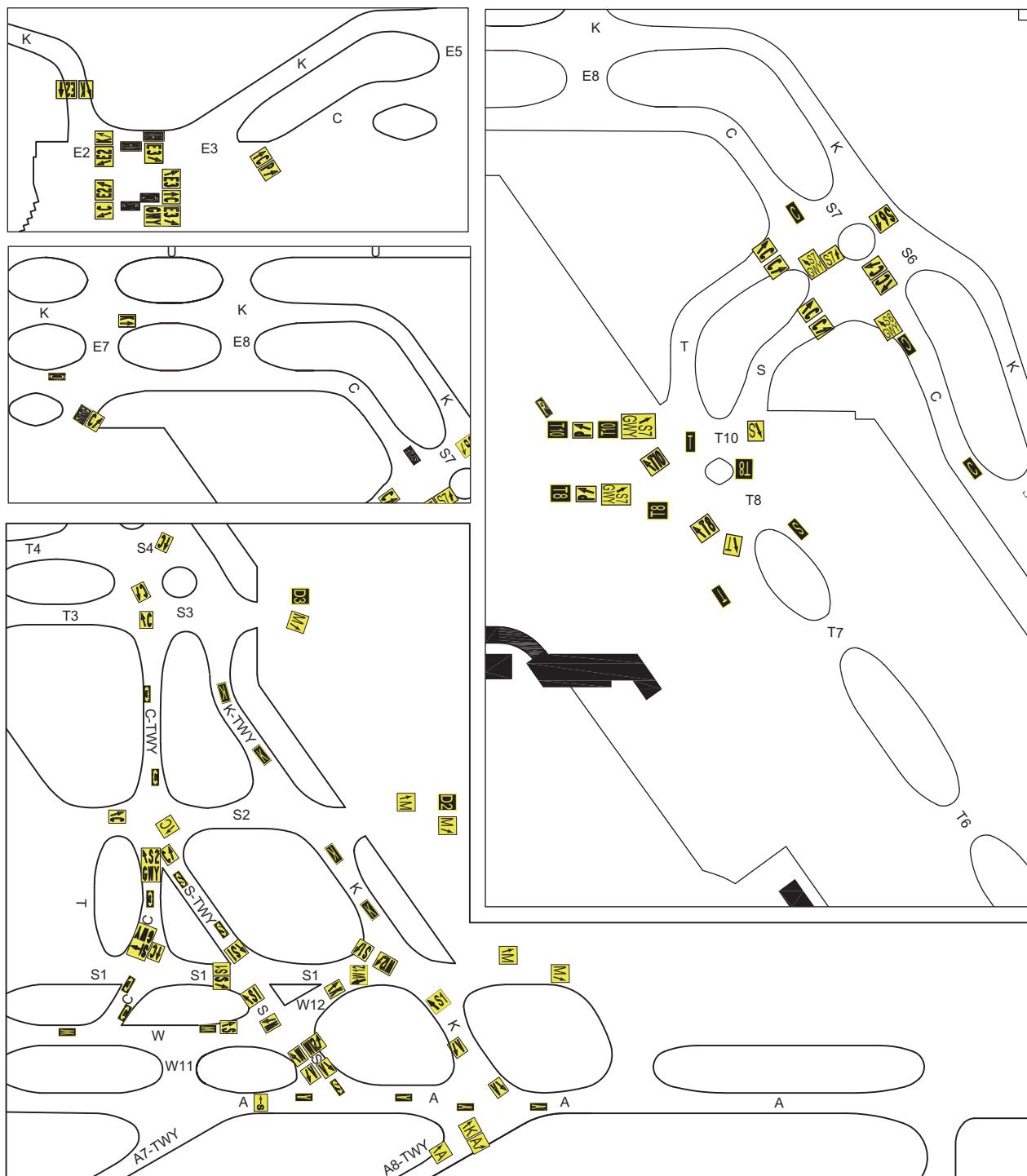


Intermediate holding position lights and markings



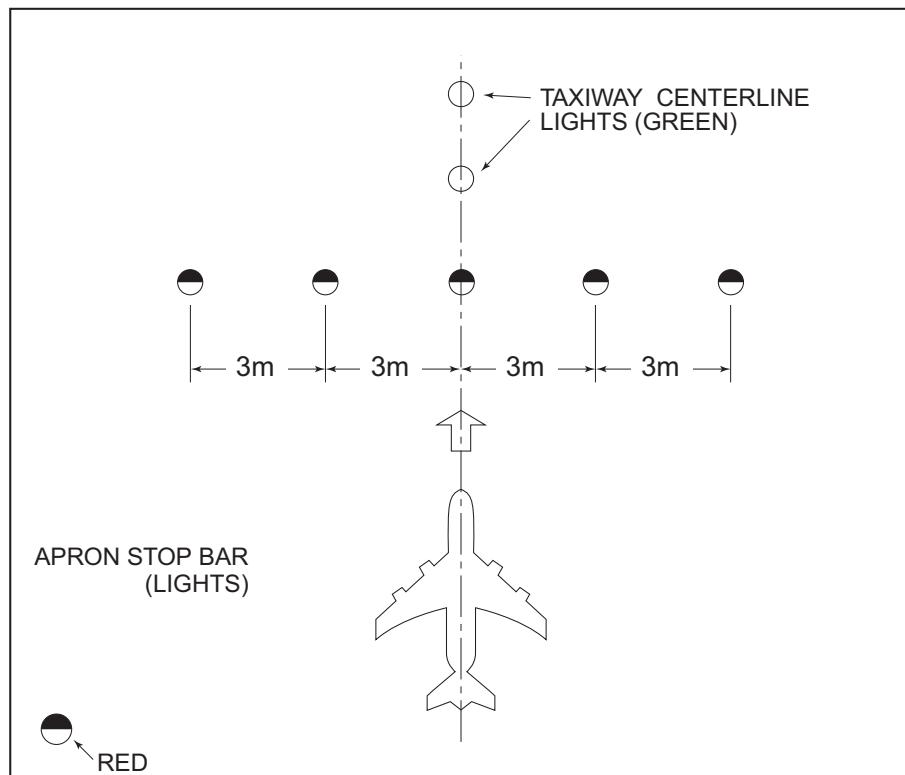
Surface Painted Direction Sign and Surface Painted Location Sign

1. Type of Surface Painted Markings
 - (1)Surface Painted Direction Sign
This type of marking at a taxiway intersection indicates the designation and direction of the taxiway leading out of an intersection.Black inscriptions with an arrow with a yellow background.
 - (2)Surface Painted Location Sign
This type of marking indicates the designation of the taxiway on which the aircraft is located.Yellow inscriptions with a black background and a yellow frame.
2. On the Taxiways at multi-crossing junctions and the standard taxiing routes, surface painted taxiway location and direction markings are provided as shown below.



APRON STOP BAR

1. Apron stop bars are provided on the aprons. (Refer to the taxiing charts for their locations). Each apron stop bar consists of five lights, illuminated in red towards the direction of the aircraft movement and when turned on by ramp controllers. Apron stop bars designated No.1 and 2 are used for arriving aircraft and No.4, No.5 and 6 are used for both arriving and departing aircraft.
2. Aircraft is required to hold at apron stop bars until the red lights are turned off and "CLEARED TO TAXI" is given by radio.
3. As shown below, the red lights are visible when an aircraft following the yellow apron taxilane center line/green center line light approaches the apron stop bar.



VISUAL DOCKING GUIDANCE SYSTEM

1. General

- (1) The pilots of an arriving aircraft assigned to park at one of these parking stands can use this system to be guided and stop the aircraft at the correct parking position.
- (2) This system is operational only in the automatic mode and in an event of a system failure, the aircraft shall be manually guided by a marshaller to the stopping position.
- (3) The visual docking guidance system consists of a display screen for pilots and a laser scanner. The system detects and analyses the aircraft type of an approaching aircraft, tracks it through the laser scanner, and displays these results on the display screen.
- (4) The display screen indicates the following information:
 - a) type of the approaching aircraft,
 - b) deviation from the lead-in center line, and
 - c) distance to the stopping position.

The above information is provided equally to the pilots on both left seat and right seat.
- (5) The following aircraft parking stands are equipped with a visual docking guidance system:
 Safedock Type 1 (T1): NR11, 12, 14-17, 22-27, 31-38, 41-47, 51-56, 57A, 57B, 58A, 58B
 Safedock Type 2 (T2): NR61-68, 71-75, 81-88, 91-99

2. Safedock Type 1 (T1)

2.1 Aircraft Type Indication

- (1) An operator on ground shall input the aircraft type into the system before the aircraft approaches the parking stand. Upon accepting the input, the system carries out internal calibration, starts the laser scanner simultaneously, and indicates the aircraft type according to the input. The system then will begin to indicate yellow lead-in arrows scrolling upwards prompting the aircraft to proceed (Fig.1).

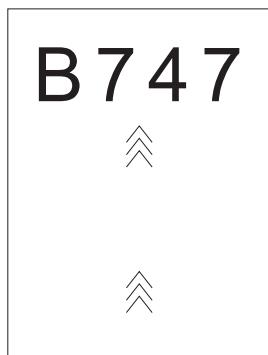


Fig. 1

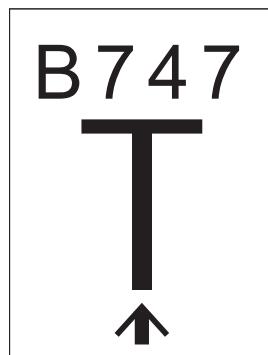


Fig. 2

- (2) When the laser scanner detects the approaching aircraft, the display screen will indicate the aircraft type, a "T" bar, and a lead-in upward arrow in yellow (Fig.2).
- (3) At least until the approaching aircraft arrives at a point 15m before the stopping position, the system will identify the aircraft type and will compare with the previously input aircraft type. If these data match, the system will continue its operation. If they do not match, the display screen will continue displaying "STOP", "ID FAIL" (Fig.3).

NOTE : At this moment, the pilots must stop the aircraft immediately.

When the operator re-input the correct aircraft type into the system and the system finds it correct, it resumes normal operations indicating the correct aircraft type on its display screen.



Fig. 3

2.2 Spot-in and Lateral Center line Guidance

- (1) When entering an aircraft parking stand using the system, the pilots should maneuver the aircraft at a low speed to the stopping position. In an event when "SLOW" is indicated on the display screen, the pilots should further decelerate the taxiing speed to avoid overshooting(Fig.4).

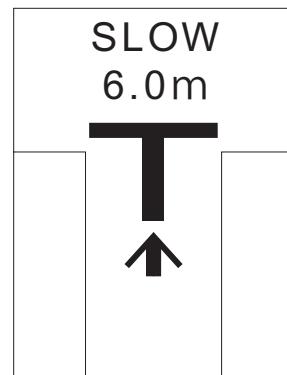


Fig. 4

- (2) Deviation of an upward yellow arrow from the center line of "T" indicates the deviation of the approaching aircraft relative to the center line of the parking stand either to right or left. Further, an additional flashing red arrow on the either side indicates the required direction for the aircraft to turn (Fig.5, Fig.6), and numerical value of remaining distance (Fig.7, Fig.8).

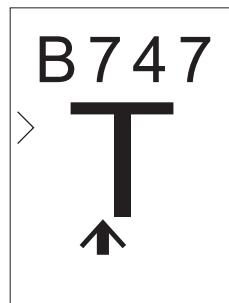


Fig. 5

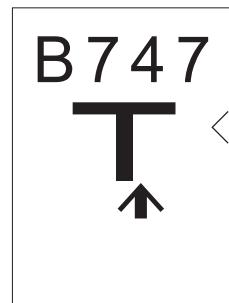


Fig. 6

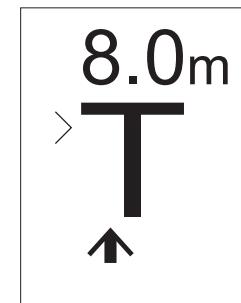


Fig. 7

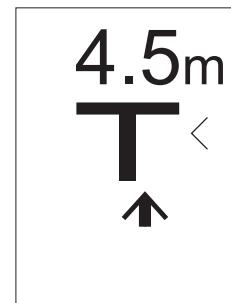


Fig. 8

2.3 Stop Guidance

- (1) When the approaching aircraft is within 20m from the stopping position, the shaft of the illuminated "T" will start to reduce in its length from the bottom to indicate the approaching rate of the aircraft, indicating the remaining distance to the stopping position successively (Fig.9, Fig.10).
As the aircraft approaches the stopping position, the shaft of the illuminated "T" retract one row for every 0.3m.

When the approaching aircraft is within 30m from the stopping position, display of digital countdown will start. As the aircraft approaches the stopping position, digital countdown is for every 1.0m (from 30 to 5m to the stopping position) or for every 0.5m (from 5 to 2m to the stopping position) or for every 0.1m (from 2m to the stopping position) (Fig.11, Fig.12).

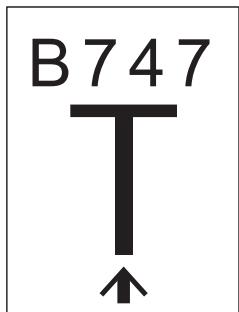


Fig. 9

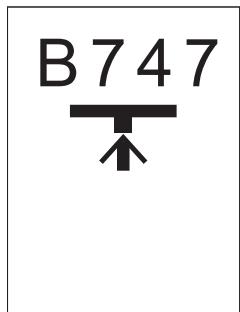


Fig. 10

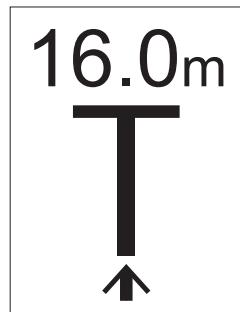


Fig. 11

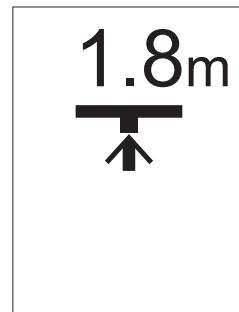


Fig. 12

- (2) When the aircraft reaches the stopping position, a message "STOP" with a red border will be displayed on the screen (Fig.13).

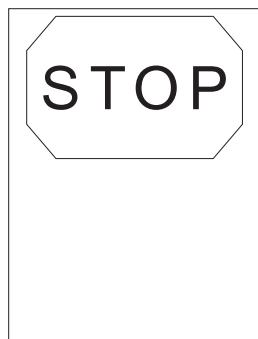


Fig. 13

- (3) When the aircraft is stopped at the correct stopping position, a message "OK" will be displayed on the screen in several seconds(Fig.14).

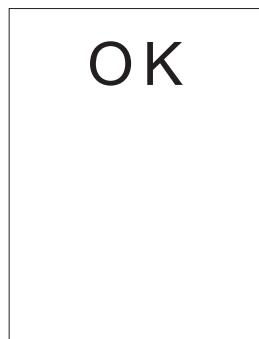


Fig. 14



Fig. 15

- (4) When the operator applies chocks, and switches on "CHOCK ON" switch, a message "CHOCK ON" will be displayed on the screen(Fig.15).

- (5) If the aircraft stops at a position beyond the correct stopping position, a message "TOO FAR" will be displayed on the screen(Fig.16).



Fig. 16

2.4 Cautions and Safety

- (1) When the system displays an incorrect aircraft type, or when such a message as "STOP", "ID", "FAIL", or "WAIT" appears on the display screen, the pilots should stop the aircraft immediately (Fig.3, Fig.13, Fig.17).

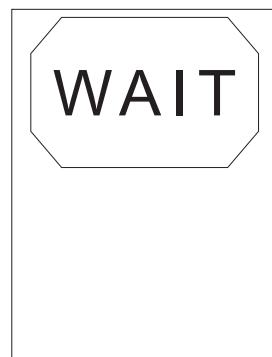


Fig. 17

- (2) During heavy fog, rain or snow the visibility for the docking system can be reduced.
When the system is activated and in capture mode, the display will deactivate the floating arrows and show "SLOW" (Fig.18).
The message will be superseded by the closing rate bar as soon as the system detects the approaching aircraft.
The pilot must not proceed beyond the passenger boarding bridge, unless the "SLOW" message has been superseded by the closing rate bar.



Fig. 18

3. Safedock Type 2 (T2)

3.1 Aircraft Type Indication

- (1) An operator on ground shall input the aircraft type into the system before the aircraft approaches the parking stand. Upon accepting the input, the system carries out internal calibration, starts the laser scanner simultaneously, and indicates the aircraft type according to the input. The system then will begin to indicate yellow lead-in arrows scrolling upwards prompting the aircraft to proceed (Fig.19).

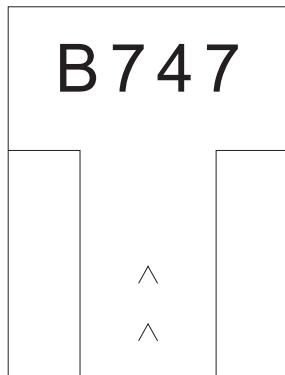


Fig. 19

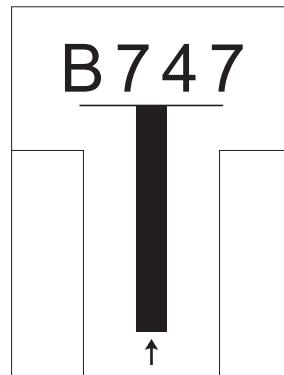


Fig. 20

- (2) When the laser scanner detects the approaching aircraft, the display screen will indicate the aircraft type, a "T" bar, and a lead-in upward arrow in yellow (Fig.20).
- (3) At least until the approaching aircraft arrives at a point 12m before the stopping position, the system will identify the aircraft type and will compare with the previously input aircraft type. If these data match, the system will continue its operation. If they do not match, the display screen will repeatedly indicate "STOP", "ID" and "FAIL" in sequence and will indicate 2 illuminated red squares simultaneously (Fig.21 to Fig.23).

NOTE: At this moment, the pilots must stop the aircraft immediately.

When the operator re-input the correct aircraft type into the system and the system finds it correct, it resumes normal operations indicating the correct aircraft type on its display screen.

→ Fig. 21 → Fig. 22 → Fig. 23

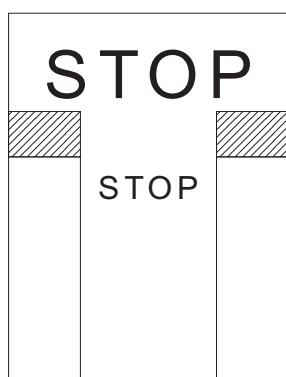


Fig. 21

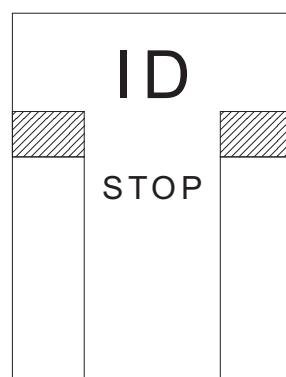


Fig. 22

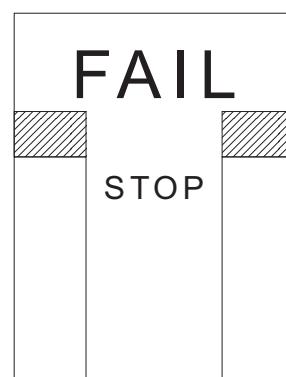


Fig. 23

3.2 Spot-in and Lateral Center line Guidance

- (1) When entering an aircraft parking stand using the system, the pilots should maneuver the aircraft at a low speed to the stopping position. In an event when "SLOW DOWN" is indicated on the display screen, the pilots should further decelerate the taxiing speed to avoid overshooting (Fig.24).

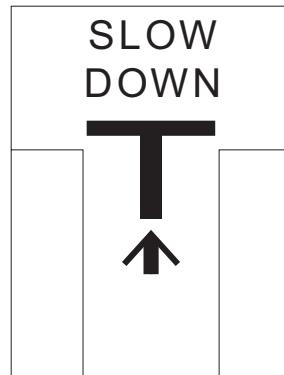


Fig. 24

- (2) Deviation of an upward yellow arrow from the center line of "T" indicates the deviation of the approaching aircraft relative to the center line of the parking stand either to right or left. Further, an additional flashing red arrow on the either side indicates the required direction for the aircraft to turn (Fig.25, Fig.26).

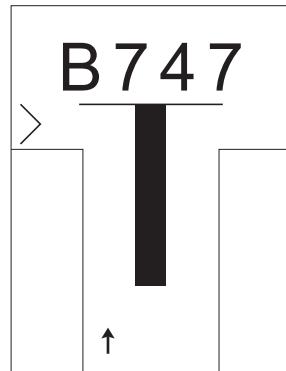


Fig. 25

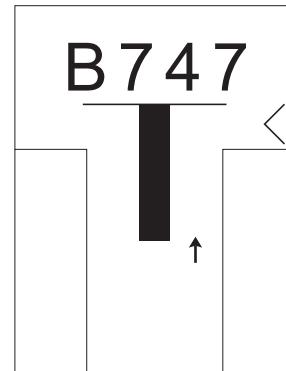


Fig. 26

3.3 Stop Guidance

- (1) When the approaching aircraft is within 16m from the stopping position, the shaft of the illuminated "T" will start to reduce in its length from the bottom to indicate the approaching rate of the aircraft, indicating the remaining distance to the stopping position successively (Fig.27 ,Fig.28).

As the aircraft approaches the stopping position, the shaft of the illuminated "T" retract one row for every 0.5m.

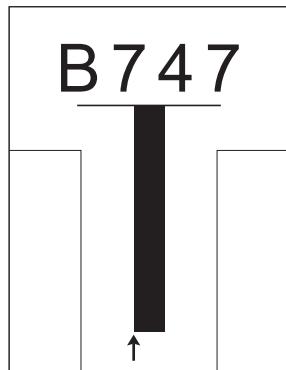


Fig. 27

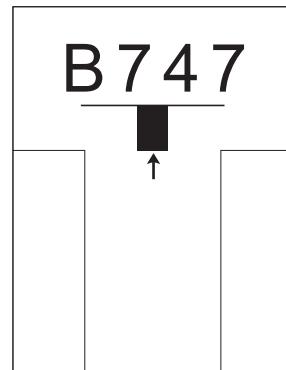


Fig. 28

- (2) When the aircraft reaches the stopping position, a message "STOP" will be displayed on the screen together with two red squares, one each at the either side of the screen at the positions previously used for indication of a direction to turn (Fig.29).

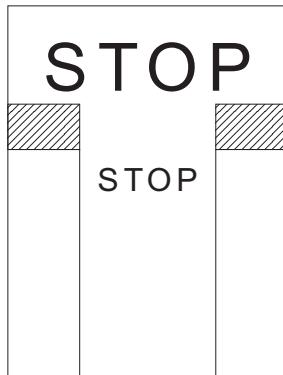


Fig. 29

- (3) When the aircraft is stopped at the correct stopping position, a message "OK" will be displayed on the screen in several seconds (Fig.30).

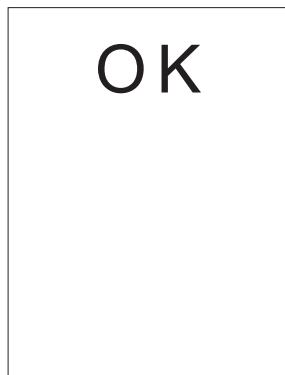


Fig. 30

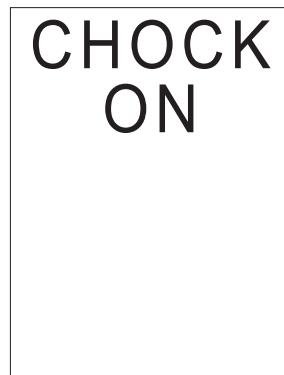


Fig. 31

- (4) When the operator applies chocks, and switches on "CHOCK ON" switch, a message "CHOCK ON" will be displayed on the screen (Fig.31).
- (5) If the aircraft stops at a position beyond the correct stopping position, a message "TOO FAR" will be displayed on the screen (Fig.32).



Fig. 32

3.4 Cautions and Safety

- (1) When the system displays an incorrect aircraft type, or when such a message as "STOP", "ID", "FAIL", or "WAIT" appears on the display screen, the pilots should stop the aircraft immediately (Fig.21 to Fig.23 Fig.29, Fig.33).

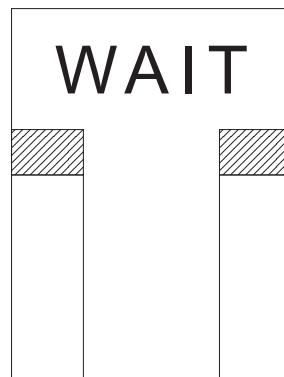


Fig. 33

- (2) During heavy fog, rain or snow the visibility for the docking system can be reduced.
When the system is activated and in capture mode, the display will deactivate the floating arrows and show "DOWN GRADE" (Fig.34, Fig.35).
The message will be superseded by the closing rate bar as soon as the system detects the approaching aircraft.
The pilot must not proceed beyond the passenger boarding bridge, unless the "DOWN GRADE" message has been superseded by the closing rate bar.

→ Fig. 34 → Fig. 35 →

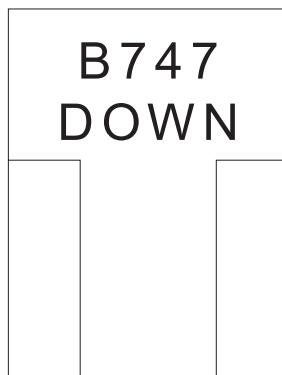


Fig. 34

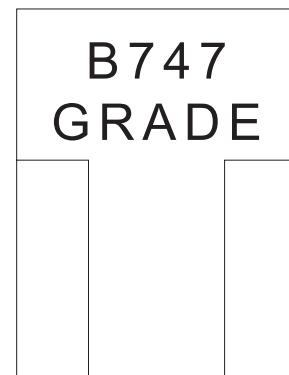
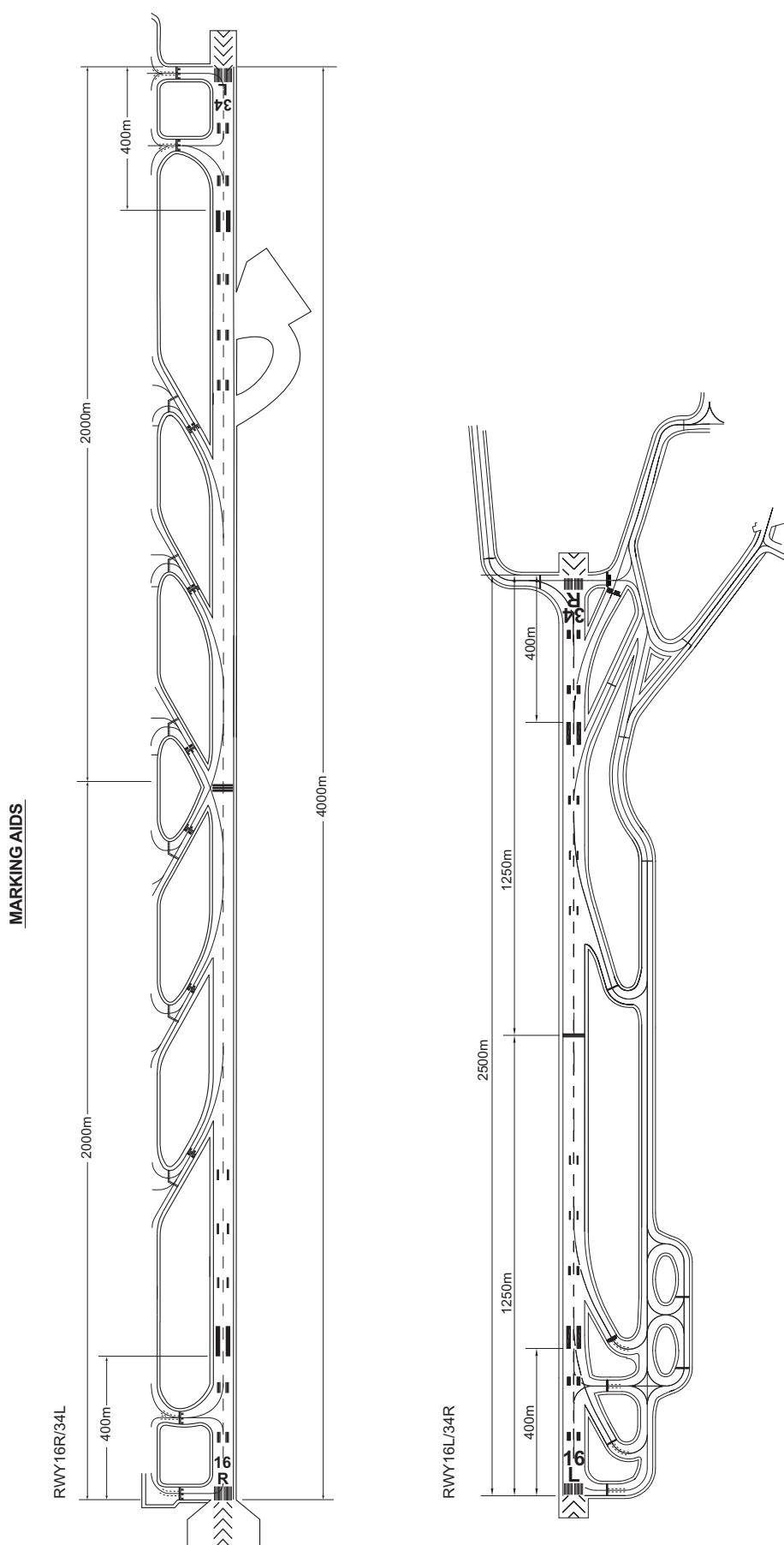


Fig. 35

Marking aids



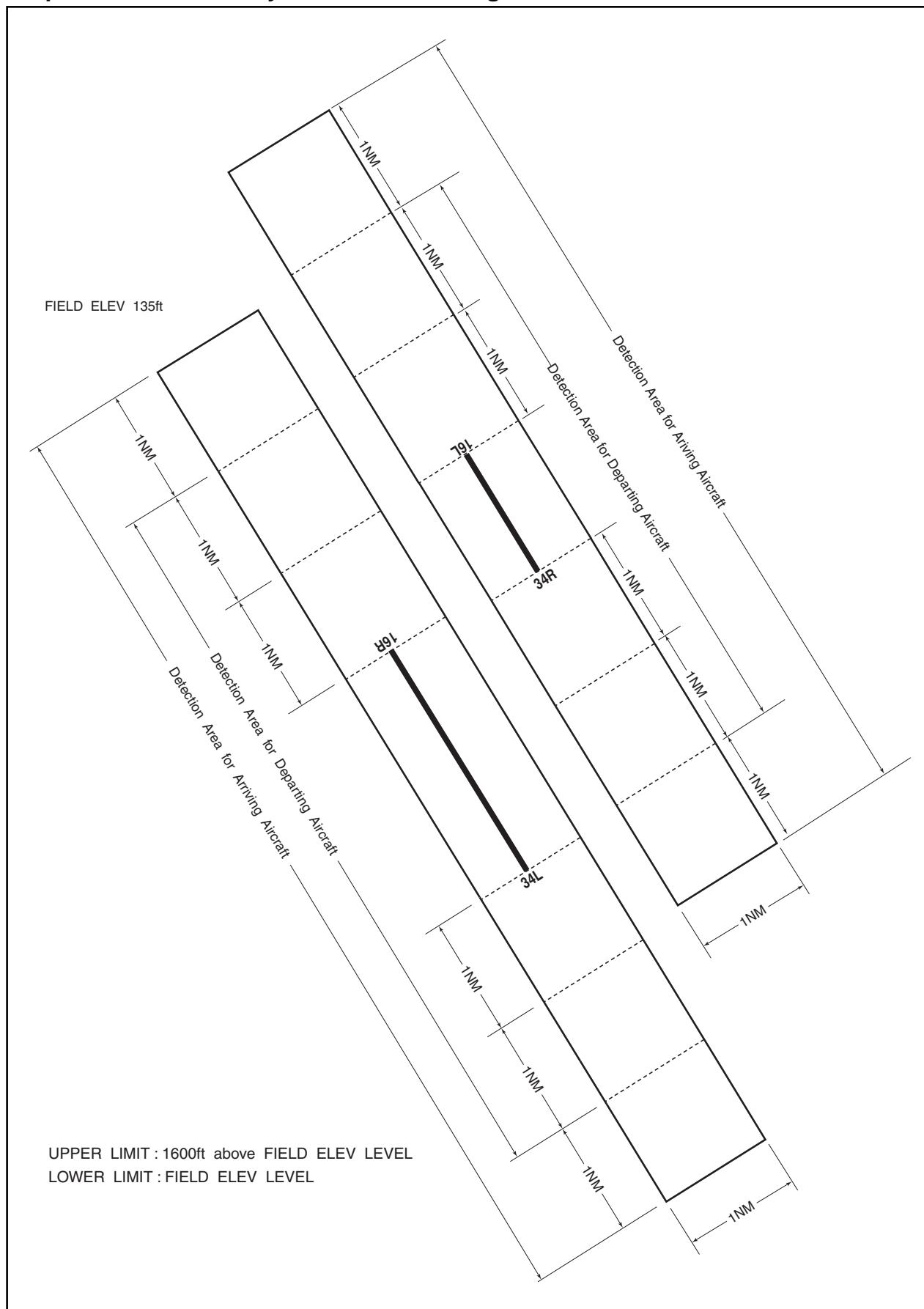
RJAA AD 2.10 AERODROME OBSTACLES

In Area2 See Obstacle data

In Area3 To be developed

RJAA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

| | | |
|----|--|---|
| 1 | Associated MET Office | NARITA |
| 2 | Hours of service MET Office outside hours | H24 |
| 3 | Office responsible for TAF preparation Periods of validity | NARITA 30 Hours |
| 4 | Trend forecast Interval of issuance | TREND 30min. |
| 5 | Briefing/ consultation provided | P, Ja, En |
| 6 | Flight documentation Language(s) used | C En |
| 7 | Charts and other information available for briefing or consultation | S ₆ , U ₈₅ , U ₇ , U ₅ , U ₃ , U ₂₅ , U _{2/T_r} , P _S , P ₅ , P ₃ , P ₂₅ , P _{SWE} , P _{SWF} , P _{SWG} , P _{SWI} , P _{SWM} , P _{SW} (domestic), E, C, W _E , W _F , W _G , W _I , W, N |
| 8 | Supplementary equipment available for providing information | Doppler Radar and Lidar for Airport Weather (See attached chart) |
| 9 | ATS units provided with information | TWR, APP, ATIS |
| 10 | Additional information (limitation of service, etc.) | Nil |

Airspace for the advisory service concerning low level wind shear

RJAA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designations RWY NR | TRUE BRG | Dimensions of RWY(M) | Strength(PCN) and surface of RWY | THR coordinates THR geoid undulation | THR elevation and highest elevation of TDZ of precision APP RWY |
|--|-------------|----------------------------|-------------------------------------|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 16R | 149.50° | 4000x60 | PCN 140/F/C/X/T Asphalt | 354627.80N 1402205.85E 116.4ft | THR ELEV:129.6ft TDZ ELEV : 130.0ft |
| 34L | 329.51° | 4000x60 | PCN 140/F/C/X/T Asphalt | 354435.96N 1402326.66E 114.9ft | THR ELEV:139.4ft TDZ ELEV : 140.0ft |
| 16L | 149.50° | 2500x60 | PCN 129/F/C/X/T Asphalt | 354818.72N 1402241.19E 117.2ft | THR ELEV:134.5ft TDZ ELEV : 134.5ft |
| 34R | 329.51° | 2500x60 | PCN 129/F/C/X/T Asphalt | 354708.82N 1402331.72E 116.4ft | THR ELEV:141.1ft TDZ ELEV : 139.7ft |
| Slope of RWY | | Strip Dimensions(M) | | RESA (Overrun) Dimensions(M) | |
| 7 | | 10 | | 11 | |
| See below chart | | 4120x300 | | 164 × 300 | |
| | | 4120x300 | | 90 × 300 | |
| See below chart | | 2620x150 | | 40 × 300 | |
| | | 2620x150 | | 240 × (MNM:120 MAX:300)* *For detail, ask airport administrator | |
| Remarks | | | | | |
| | | | 14 | | |
| Dimension of RWY16R/34L grooved area is 3825m x 60m from THR of RWY34L. NOTE : First 150m of RWY34L is paved by concrete, PCN is 140/R/C/X/T. | | | | | |
| Dimension of RWY16L/34R grooved area is 2500m x 60m. NOTE : First 440m of RWY16L is paved by concrete, PCN is 129/R/C/X/T. | | | | | |
| Slope of RWY | | | | | |
| RWY 16R | | | | | |
| 39.5m | | 39.5m | | | |
| 0% | | 0% | | | |
| | 1000m | | 2000m | | |
| | | 0.15% | | | |
| | | (Mean slope:0.075%) | | | |
| | | | 3000m | | |
| | | | | 4000m | |
| | | | | | RWY 34L |
| | | | | 42.5m | |
| | | | | 0% | |
| | | | | | 42.5m |
| RWY 16L | | | | | |
| 41.0m | | 41.0m | | | |
| 0% | | 0% | | | |
| | 1987m | | 2500m | | |
| | | 0.39% | | | |
| | | (Mean slope:0.08%) | | | |

RJAA AD 2.13 DECLARED DISTANCES

| RWY Designator | TORA (m) | TODA (m) | ASDA (m) | LDA (m) | Remarks |
|----------------|-------------|-------------|-------------|------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 16R | 4000 | 4000 | 4000 | 4000 | Nil |
| 34L | 4000 | 4000 | 4000 | 4000 | Nil |
| 16L | 2500 | 2500 | 2500 | 2500 | Nil |
| 34R | 2500 | 2500 | 2500 | 2500 | Nil |

RJAA AD 2.14 APPROACH AND RUNWAY LIGHTING

| RWY Designator | APCH LGT type LEN INTST | RTHL Color WBAR | PAPI (VASIS) Angle DIST FM THR MEHT | RTZL LEN | RCLL LEN Spacing Color INTST | REDL LEN Spacing Color INTST | RENL Color WBAR | STWL LEN Color |
|---|-------------------------------------|-----------------------|---|-------------|---|--|-----------------------|----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 16R | PALS (CAT III) 900m LIH | Green Green | PAPI 3.0°/Left 431m 67.3ft | 900m | 4000m 15m Coded color (White/Red) LIH | 4000m 30m Coded color (White/Yellow) LIH | Red | Nil(*) |
| 34L | PALS (CAT I) 750m LIH | Green Green | PAPI 3.0°/Left 425m 67.3ft | 900m | 4000m 15m Coded color (White/Red) LIH | 4000m 30m Coded color (White/Yellow) LIH | Red | Nil(*) |
| 16L | PALS (CAT I) 900m LIH | Green Green | PAPI 3.0°/Left 419m 65.6ft | 900m | 2500m 30m Coded color (White/Red) LIH | 2500m 30m Coded color (White/Yellow) LIH | Red | Nil(*) |
| 34R | PALS (CAT I) 900m LIH | Green Green | PAPI 3.0°/Right 460m 66.2ft | 900m | 2500m 30m Coded color (White/Red) LIH | 2500m 30m Coded color (White/Yellow) LIH | Red | Nil(*) |
| Remarks | | | | | | | | |
| 10 | | | | | | | | |
| (*) Overrun area edge LGT(LEN:60m, color:Red) | | | | | | | | |

RJAA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

| | | |
|---|--|--|
| 1 | ABN/IBN location, characteristics and hours of operation | ABN: 354511N/1402400E, White/Green EV4.3sec, HO |
| 2 | LDI location and LGT Anemometer location and LGT | LDI : Nil Anemometer : RWY 34L : 276m from RWY 34L THR, LGTD RWY 16R : 397m from RWY 16R THR, LGTD RWY 34R : 415m from RWY 34R THR, LGTD RWY 16L : 485m from RWY 16L THR, LGTD |
| 3 | TWY edge and center line lighting | TWY edge and center line lights installed. see AD 2.9 |
| 4 | Secondary power supply/ switch-over time | Within 1sec: PALS(RWY16R/34L), PAPI, RENL, RTHL, WBAR, RCLL, RTZL, Stop bar LGT and RWY guard LGT(B1-B9) Within 15sec: Other lights |
| 5 | Remarks | WDI LGT |

RJAA AD 2.16 HELICOPTER LANDING AREA

Nil

RJAA AD 2.17 ATS AIRSPACE

| Designation and lateral limits | | Vertical limits (ft) | Airspace classification | ATS unit call sign Language | Remarks |
|--------------------------------|---|----------------------|-------------------------|---|----------------------------|
| 1 | | 2 | 3 | 4 | 6 |
| NARITA CTR | Area defined as follows. (1) Area within a radius of 5nm of NARITA INTERNATIONAL ARP(3546N14023E). (2) Area within a line connecting 354826N 1401749E, 355054N 1402341E, 355238N 1402225E, 354957N 1401647E and 354826N 1401749E | 3000 or below | D | NARITA TWR En | exclude area(1) |
| NARITA PCA | See attached chart | | C | TOKYO APP(1) NARITA TWR(2) En | (1)Primary (2)Secondary |
| TOKYO ACA | See RJTT attached chart | | E | TOKYO APP TOKYO DEP TOKYO RADAR En | |
| TOKYO TCA | See RJTT attached chart | | E | TOKYO TCA En | |

成田特別管制区
Narita Positive Control Area

| NAME | LATERAL LIMITS | UPPER LIMIT (AMSL) | UNIT PROVIDING SERVICE | REMARKS |
|---|-----------------------------------|--------------------------------|--|---|
| | | LOWER LIMIT (AMSL) M(ft) | | |
| 1 | 2 | 3 | 4 | 5 |
| 成田 Narita | 下記に示された区域 The area shown below | | Primary Tokyo APP 124.4 127.7 261.2 Secondary Narita Tower 118.2 118.35 236.8 | 当該空域を飛行しようとする航空機は東京アプローチ又は成田タワーに連絡し、コールサイン、現在位置、高度及び意図を通報し指示を受けること。 Pilot of aircraft operating in this area shall contact Tokyo APP or Narita Tower for ATC instructions giving informations on aircraft identification, position, altitude and pilot's intentions. |
| <p>The map illustrates the Narita Positive Control Area with its lateral boundaries and specific flight levels. Key coordinates are marked along the perimeter and internal routes. A central point is marked with 'ARP' and a 'Radius 5NM' circle. Internal routes are labeled with coordinates such as 35°52'38"N 140°22'25"E and 35°49'57"N 140°16'47"E. Flight levels are indicated by numbers followed by '000' or '700' (e.g., 6000 3000, 4000 700) and are color-coded in red, blue, and green. A legend at the bottom left shows symbols for 'A', 'B', 'C', 'D', and 'E'.</p> | | | | |

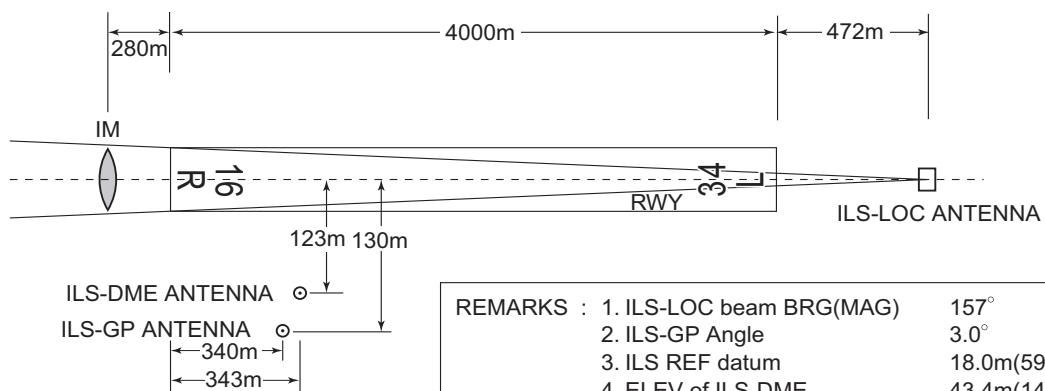
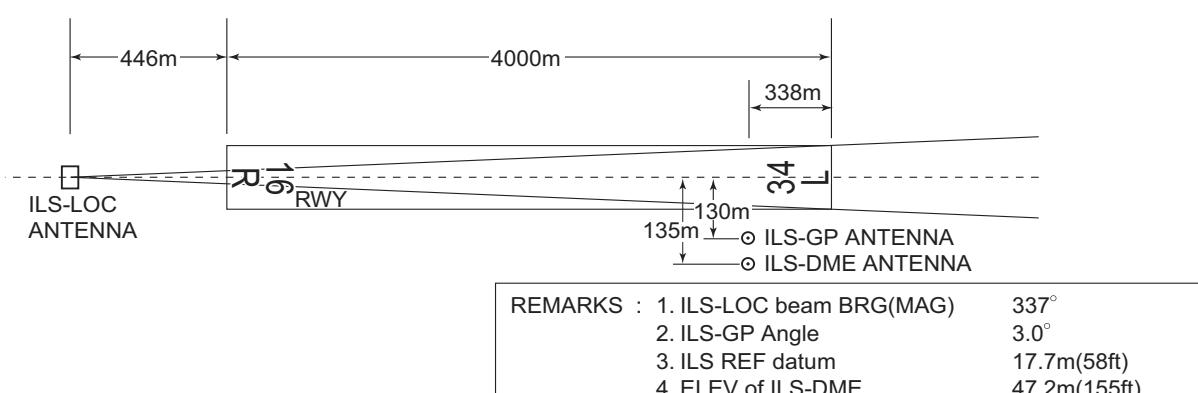
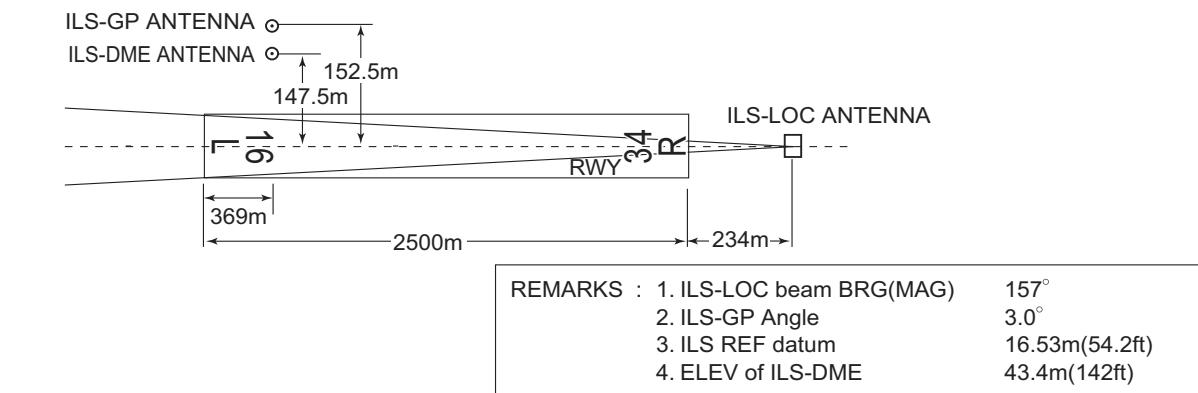
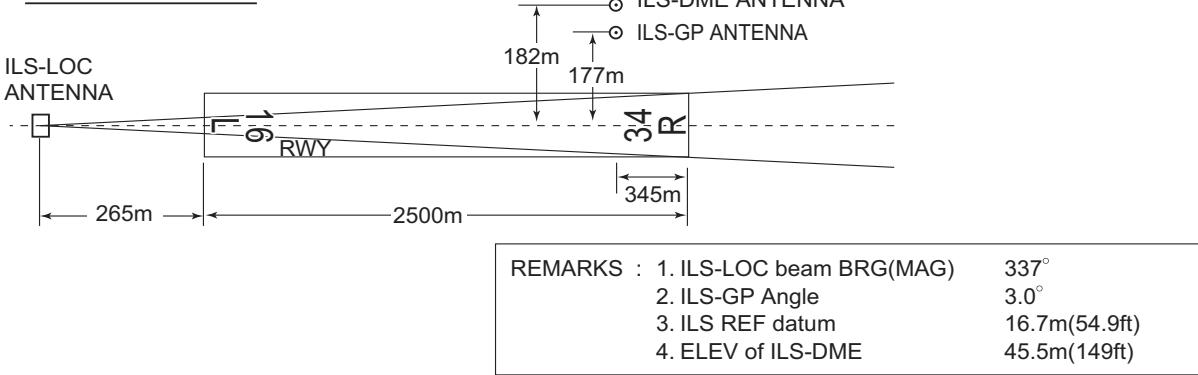
RJAA AD 2.18 ATS COMMUNICATION FACILITIES

| Service designation | Call sign | Frequency | Hours of operation | Remarks |
|---------------------|---------------------|--|--------------------|--|
| 1 | 2 | 3 | 4 | 5 |
| APP | Tokyo Approach | 124.4MHz(1) 121.275MHz 125.2MHz 125.8MHz 127.7MHz 225.65MHz 121.5MHz(E) 243.0MHz(E) | H24 | (1)Primary |
| ASR | Tokyo Radar | 120.2MHz 121.5MHz(E) 243.0MHz(E) | H24 | |
| DEP | Tokyo Departure | 124.2MHz(1) 119.6MHz 120.6MHz 125.525MHz 127.5MHz | H24 | |
| TCA | Tokyo TCA | 119.45MHz 246.1MHz | 2300 - 1030 | |
| TWR | Narita Tower | 118.2MHz(1) 118.35MHz 122.7MHz 126.2MHz 236.8MHz 121.5MHz(E) 243.0MHz(E) | H24 | |
| GND | Narita Ground | 121.95MHz(1) 121.85MHz | H24 | |
| DELIVERY | Narita Delivery | 121.9MHz(1) 121.65MHz | H24 | |
| ATIS | Narita INTL Airport | 128.25MHz | H24 | |
| RAMP | Narita Ramp Control | 121.6MHz 121.75MHz | H24 | |
| A/G | Tokyo | (2) | H24 | (2)SELCAL AVBL HF* RDO CK AVBL. *LOCAL HF AT NARITA INTL AP. NP: 2932KHz 5628KHz 5667KHz 6655KHz 8915KHz 8951KHz 10048KHz 11330KHz 13273KHz 17946KHz 21925KHz CWP: 2998KHz 3455KHz 4666KHz 6532KHz 8903KHz 11384KHz 13300KHz 17904KHz |

RJAA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid (VOR declination) | ID | Frequency | Hours of operation | Position of transmitting antenna coordinates | Elevation of DME transmitting antenna | Remarks |
|-------------------------------------|-----|-----------------------|-----------------------|---|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| VOR | NRE | 117.9MHz | H24 | 354656.44N/1402145.13E | | VOR unusable: 110°-120° beyond 15nm BLW 3000ft. 120°-150° beyond 25nm BLW 3000ft. 170°-180° beyond 35nm BLW 3000ft. 210°-220° beyond 35nm BLW 4000ft. 260°-270° beyond 35nm BLW 3000ft. 280°-300° beyond 25nm BLW 3000ft Note:There is a course roughness due to crossing over the station by other aircraft. |
| DME | NRE | 1213MHz (CH-126X) | H24 | 354656.44N/1402145.13E | 153ft | DME unusable: 060°-110° beyond 30nm BLW 3000ft. 110°-120° beyond 20nm BLW 3000ft. 130°-140° beyond 25nm BLW 3000ft. 140°-150° beyond 35nm BLW 4000ft. 260°-270° beyond 35nm BLW 3000ft. 280°-300° beyond 25nm BLW 3000ft. |
| ILS-LOC 16R (CAT-III) | IKF | 111.5MHz | H24 | 354422.75N/1402336.17E | | Back course unusable. LOC : 472m(1549ft) away FM RWY34L THR, BRG(MAG) 157°. |
| ILS-GP 16R | - | 332.9MHz | H24 | 354616.14N/1402208.25E | | GP:340m(1115ft) inside FM RWY16R THR,130m(427ft) W of RCL. GP angle 3.0°, HGT of ILS Ref datum 18.0m(59ft). |
| ILS-DME 16R | IKF | 1013MHz (CH-52X) | H24 | 354616.17N/1402208.55E | 142ft | DME : 343m(1125ft) inside FM RWY16R THR, 123m(404ft) W of RCL. |
| IM 16R | - | 75MHz | H24 | 354635.61N/1402200.18E | | IM : 280m(918ft) away FM RWY16R THR. |
| ILS-LOC 34L | IYQ | 111.9MHz | H24 | 354640.25N/1402156.83E | | Back course unusable. LOC : 446m(1463ft) away FM RWY16R THR. BRG(MAG) 337°. |
| ILS-GP 34L | - | 331.1MHz | H24 | 354443.26N/1402315.36E | | GP : 338m(1109ft) inside FM RWY34L THR, 130m(426ft) W of RCL. GP angle 3.0° HGT of ILS Ref datum 17.7m(58ft). |
| ILS-DME 34L | IYQ | 1017.0MHz (CH-56X) | H24 | 354443.18N/1402315.19E | 155ft | DME : 338m(1109ft) inside FM RWY34L THR, 135m(443ft) W of RCL. |

| Type of aid (VOR declination) | ID | Frequency | Hours of operation | Position of transmitting antenna coordinates | Elevation of DME transmitting antenna | Remarks |
|-------------------------------------|-----|-----------------------|-----------------------|---|--|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| ILS-LOC 16L | ITM | 110.7MHz | H24 | 354702.26N/1402336.44E | | Back course unusable. LOC : 234m(767ft) away FM RWY34R THR, BRG (MAG) 157° |
| ILS-GP 16L | - | 330.2MHz | H24 | 354810.90N/1402253.85E | | GP : 369m(1210ft) inside FM RWY16L THR, 153m(500ft) E of RCL. GP angle 3.0°. HGT of ILS Ref datum 16.53m(54.2ft) |
| ILS-DME 16L | ITM | 1005.0MHz (CH-44X) | H24 | 354810.82N/1402253.68E | 142ft | DME: 369m(1210ft) inside FM RWY16L THR, 148m(484ft) E of RCL. |
| ILS-LOC 34R | ITJ | 110.9MHz | H24 | 354826.12N/1402235.80E | | Back course unusable. LOC : 265m(869ft) away FM RWY16L THR, BRG (MAG) 337° |
| ILS-GP 34R | - | 330.8MHz | H24 | 354721.37N/1402330.81E | | GP : 345m(1131ft) inside FM RWY34R THR, 177m(581ft) E of RCL. GP angle 3.0° HGT of ILS Ref datum 16.7m(54.9ft) . |
| ILS-DME 34R | ITJ | 1007.0MHz (CH-46X) | H24 | 354721.45N/1402330.99E | 149ft | DME : 345m(1131ft) inside FM RWY34R THR, 182m(597ft) E of RCL. |
| DME | SND | 1174MHz (CH-87X) | H24 | 355606.33N/1395852.43E | 126ft | |
| MSAS | | 1575.42MHz | H24 | | | Transmitting antennas are satellite based |

ILS for RWY 16RILS for RWY 34LILS for RWY 16LILS for RWY 34R

RJAA AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

Local flying restrictions.

1.Noise restrictions

Time restrictions on departures and arrivals:

- (A) No take off or landing shall be permitted during the hours from 1500 UTC to 2100 UTC with the exception of aircraft in an emergency or in an unavoidable situation.
Note:"In an emergency or in an unavoidable situation" as described above shall be limited to the following cases:
(a) Aircraft encountered with an abnormal situation.
(b) When abnormal situation arose among crew or passengers.
(c) Aircraft operating for the purpose of search-and-rescue activities.
(d) Aircraft operating for the purpose of urgent news collection activities.
(e) When take-off or landing is considered really unavoidable due to typhoon evacuation or other reasons.
(f) When there arose necessity of urgent refuelling due to unusual weather conditions.
- (B) JCAB shall not accept flight plans in violation of the paragraph (A) above.
- (C) (1) Only RWY 16R/34L is available during the hours from 1400 UTC to 1500 UTC
(2) All aircraft taking off from/landing at Narita International Airport during the hours from 1400UTC to 1500UTC shall meet the following requirement.
The sum of noise values of the aircraft is at least 10 EPNdB below the total noise standard values at the flyover, approach and sideline measurement points as defined in Annex16 to the Convention on International Civil Aviation Volume I Chapter 3 and all of the individual noise values measured at each of the measurement points are at least 2 EPNdB below the noise standard values at the corresponding points.
(3) All aircraft scheduled to take off from/land at Narita International Airport during the hours from 2100UTC to 1400UTC shall also meet the criteria mentioned on paragraph (2) above in case they take off/land from 1400 UTC to 1500 UTC due to delay.
(4) The provisions of the paragraph (1), (2), or (3) above shall not be applied in an emergency or in an unavoidable situation mentioned on the paragraph (A) above.

2.Operation

(1) Efficient Use of 16L/34R

In order to maximize the operational efficiency of the airport, it is strongly encouraged for pilot to comply with the use of runway instructed by ATC, where ATC has determined its use upon giving due consideration to the overall traffic situation on the ground and in the air.

For this reason, arriving aircraft must be ready to accept landing on 16L/34R (2,500m) if ATC assigns the shorter runway. Departing aircraft, upon giving due consideration of the distance to the destination as well as aircraft performance, must be ready to accept take-off from the runway assigned by ATC.

However, in the event where the assigned runway cannot be accepted due to unavoidable circumstances such as weather conditions, arriving aircraft must notify ATC of its intention at initial contact with Tokyo Approach and departing aircraft must notify ATC when requesting ATC clearance.

(2) Gear down operation during an approach to RWY34L/RWY34R.

In order to prevent ice blocks falling from aircraft onto the ground, all flights making an approach to RWY34L/RWY34R from the seashore are required to complete gear down and locked before reaching IYQ 11.8DME (NRE 14.3DME) for RWY 34L/ ITJ 13.6DME (NRE 14.0DME) for RWY34R as far as the safety of the flight is not compromised.

(3) Missed approach

Pilot roles and responsibilities, when simultaneous parallel ILS approaches are being conducted.

If executing a missed approach prior to reaching the final approach fix (FAF), fly the lateral navigation path of the instrument procedure to the FAF. And,

A) ILS Z RWY16L

Comply with restrictions in the Instrument Approach Procedure (IAP) chart until reaching MARCH, then maintain 3,000FT until reaching FAF, then climb to the altitude specified for the missed approach procedure, except when another altitude is instructed by the ATC.

B) ILS RWY 34L

Maintain 4,000FT until reaching FAF, then climb to the altitude specified for the missed approach procedure, except when another altitude is instructed by the ATC.

C) ILS Z RWY16R/ILS Z RWY34R

Climb to the altitude specified for the missed approach procedure, except when another altitude is instructed by the ATC.

(4) On use of this airport for small aircraft

Take-off and landing of small aircraft shall be restricted by the airport authority excepting those engaged in security mission or permitted in advance.

3.PDA (parts departing aircraft) reporting to NAA

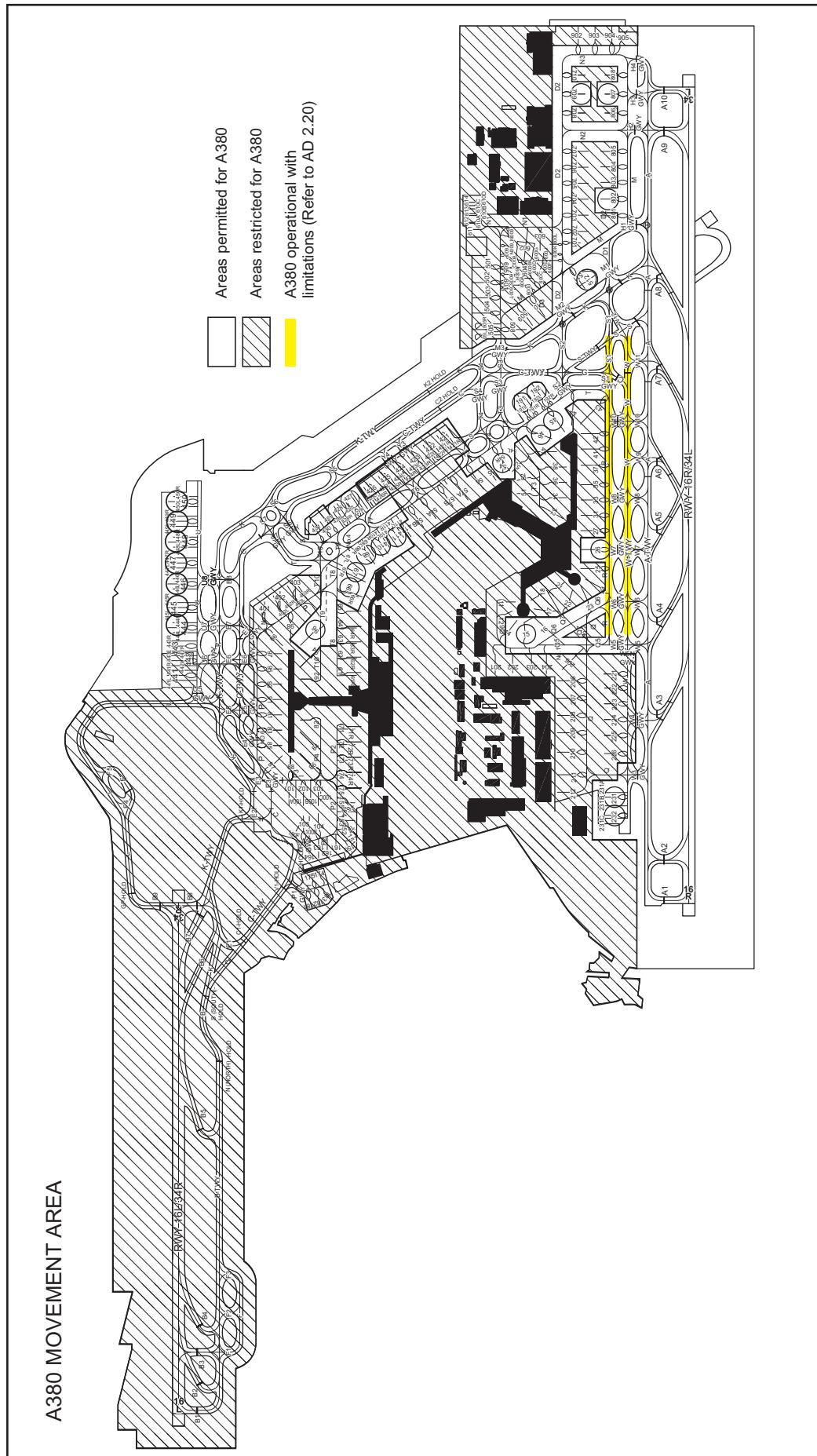
In order to secure the safety of aircraft operations and to rectify the issue of falling objects from aircraft operating in the vicinity of Narita International Airport, airline operators are required to notify NAA Ramp Control Office (Tel 0476-32-2246, Fax 0476-30-1586, E-mail unkan@naa.jp) of any "Parts Departing Aircraft" from flights operating to/from Narita International Airport, without delay. This information shall be shared by relevant parties in order to prevent recurrence of such.

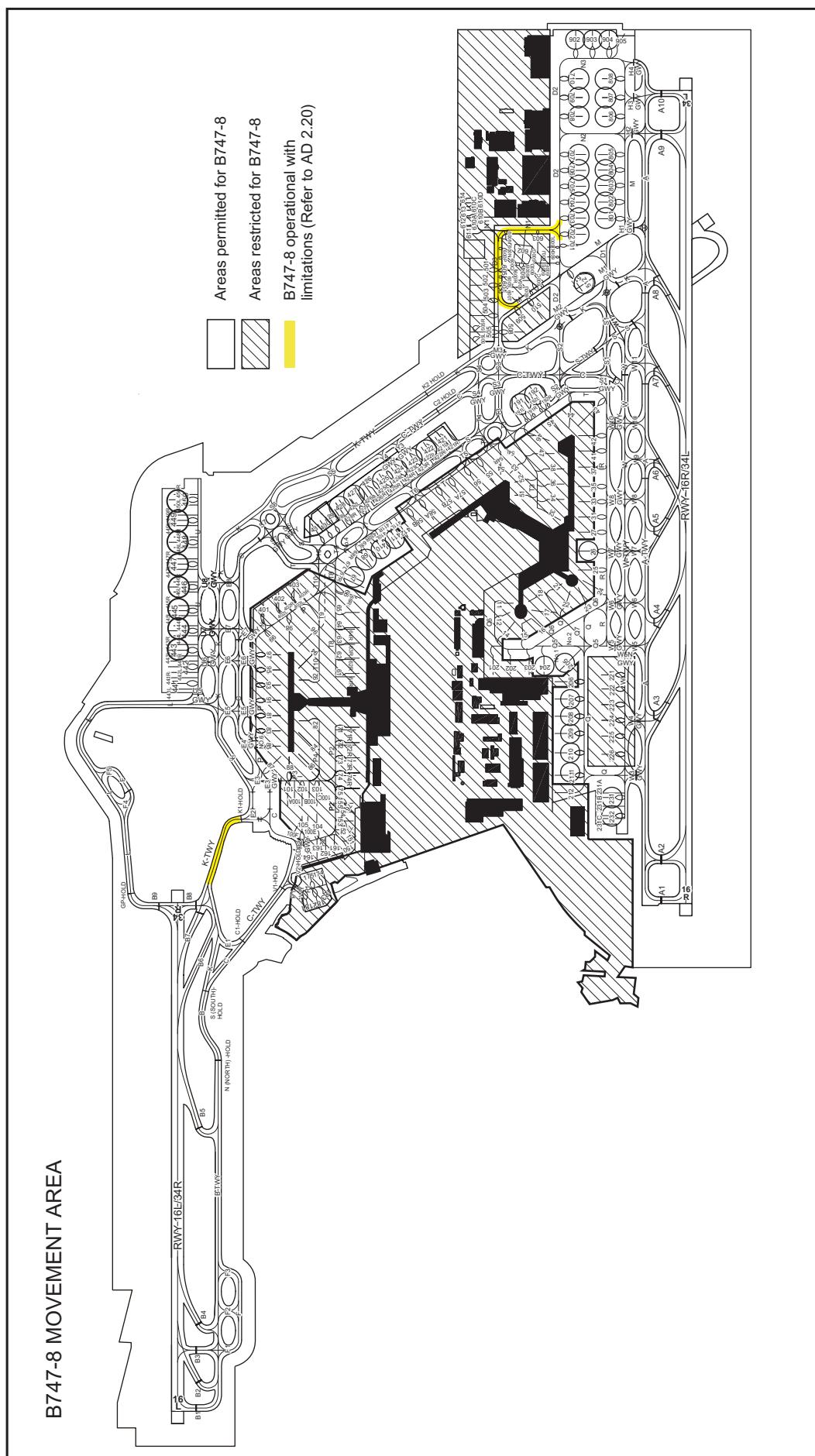
4.Special notice to Airbus A380 operators (See A380 MOVEMENT AREA CHART)

- (1) Runway:
 - The only available runway for A380 is 16R/34L, and A380 is not permitted to use RWY 16L/34R.
 - It is required to use digital avionics: modern digital autopilot or flight director with track hold guidance, as RWY 16R/34L is with an ICAO Code E OFZ (obstacle free zone).
- (2) Runway-holding position:
 - RWY-holding position markings on A1, A2, A9 and A10 are located at 120m from runway center line. Clearance is adequate when A380 is properly holding on these holding positions.
- (3) Taxiway and apron:
 - A380 ground movement is only permitted within the areas as shown on the attached chart "A380 MOVEMENT AREA".
 - Reduced taxiway-taxilane center line separation of 90m is applied for simultaneous A380 taxi at W and R between W5 and S1, at W between C and W12, and at S1 between C and S. On these taxiways/taxilanes, A380 needs to reduce taxiing speed and accurately track the center lines.
 - A380 should take taxilane T9 to taxi to NR96.
 - Taxilane T9 marking is blue.
 - T9 aircraft stand taxi lane center line lights are illuminated in alternating GREEN and BLUE.
These lights are turned on by ramp controller for A380 aircraft arriving or departing to/from NR96 parking stand.
- (4) Taxiing route:
 - Unless there is a particular reason, A380 taxiing route is only permitted within the areas as shown on the attached chart "A380 MOVEMENT AREA".
- (5) Parking stand:
 - Available parking stands for A380 are: NR15, NR26, NR45, NR46, NR54, NR66, NR67, NR68, NR96, NR191, NR192, NR231, NR232, NR410, NR411, NR427, NR428, NR444, NR445, NR446, NR447, NR448, NR449, NR450, NR512, NR709, NR802 and NR807.
- (6) Ground power supply:
 - The fixed power facility is capable of supplying 180KVA at NR15, NR26, NR66, NR96, NR231 and NR232.
 - The fixed power facility is capable of supplying 300KVA at NR45 and NR46.
 - APU restriction is also applied to A380 as stipulated in RJAA AD2.21 Noise abatement procedures, (II) Other Information, (D)Restrictions about the use of auxiliary power unit (APU).

5.Special notice to Boeing B747-8 operators (See B747-8 MOVEMENT AREA CHART)

- (1) Runway:
 - All runways are available for B747-8.
 - It is required to use digital avionics: modern digital autopilot or flight director with track hold guidance, as all runways are with an ICAO Code E OFZ (obstacle free zone).
- (2) Taxiway and apron:
 - B747-8 ground movement is only permitted within the areas as shown on the attached chart "B747-8 MOVEMENT AREA".
 - Reduced taxiway center line-object separation is applied on K between B8 and E2. On this taxiway, B747-8 needs to reduce taxiing speed and accurately track the center line, as separation between wingtip and the boundary fence is 10.5m.
 - On taxiway D3, and N1 between D2 and D3, B747-8 is required to be towed during taxiing.
- (3) Taxiing route:
 - Unless there is a particular reason, B747-8 taxing route is only permitted within the areas as shown on the attached chart "B747-8 MOVEMENT AREA CHART".
- (4) Parking stand:
 - Available parking stands for B747-8 are: NR26, NR67, NR68, NR191, NR192, NR204, NR205, NR207, NR208, NR209, NR210, NR211, NR231, NR232, NR410, NR411, NR422, NR423, NR424, NR425, NR426, NR427, NR428, NR443, NR444, NR445, NR446, NR447, NR448, NR449, NR450, NR512, NR702, NR703, NR704, NR705, NR706, NR707, NR708, NR709, NR710, NR801, NR802, NR803, NR804, NR805, NR806, NR807, NR808, NR902, NR903 and NR904.





2. Taxiing to and from stands

2.1. GENERAL

1.Ramp control

(1) Ramp control services

With a view to ensuring a safe and smooth flow of aircraft traffic on the apron, the Narita International Airport Corporation operates an aeronautical station (Frequency : 121.6MHz and 121.75MHz, Call sign : NARITA RAMP CONTROL) and issues instruction, approval, and/or necessary information to aircraft ground-moved within the apron areas.

(2) Area of Competence

The area of competence is shown below. The Ramp Control will only issue such instruction, approval, and/or information, which are effective within the apron areas.

(3) Procedures

(A) Start-up Taxi Procedures for Departing Aircraft from Terminal Apron

- (a) Contact NARITA DELIVERY 15 minutes prior to starting engines. (see AD 2.22(V)).
- (b) When instructed by ATC, contact NARITA RAMP CONTROL on 121.6MHz or 121.75MHz for approval to start push-back or taxiing.
- (c) Taxi is to be started from a safe position with due regard to the effects of engine exhaust blast.
- (d) Unless otherwise specified by the "NARITA RAMP CONTROL", follow the route to the gateway (exit from entrance to apron) from the aircraft parking position, as shown on the Taxiing Charts.
- (e) Expect instructions to contact NARITA GROUND on 121.95MHz or 121.85MHz before leaving apron.
- (f) The name of the approaching gateway shall be reported at the initial contact with NARITA GROUND.
- (g) To avoid frequency congestion, report the current ATIS code to NARITA GROUND upon initial contact.

NOTE: DO NOT PROCEED INTO TAXIWAY WITHOUT TAXI INSTRUCTION FROM ATC.

(B) Taxi Procedures for Arriving Aircraft into Terminal Apron

- (a) When instructed by ATC, contact NARITA RAMP CONTROL on 121.6MHz or 121.75MHz for approval to continue taxiing into the apron.
- (b) The name of the approaching gateway shall be reported at the initial contact with NARITA RAMP CONTROL.
- (c) Unless otherwise specified by the "NARITA RAMP CONTROL", follow the route to the parking position from the gateway, as shown on the Taxiing Charts.
- (d) When holding at an apron stop bar shown on the above chart, stop the aircraft in front of stop bar lights.
- (e) When approaching the assigned parking position, reduce engine power to the extent practicable so as not to cause any hazard to others with due regard to exhaust blast.

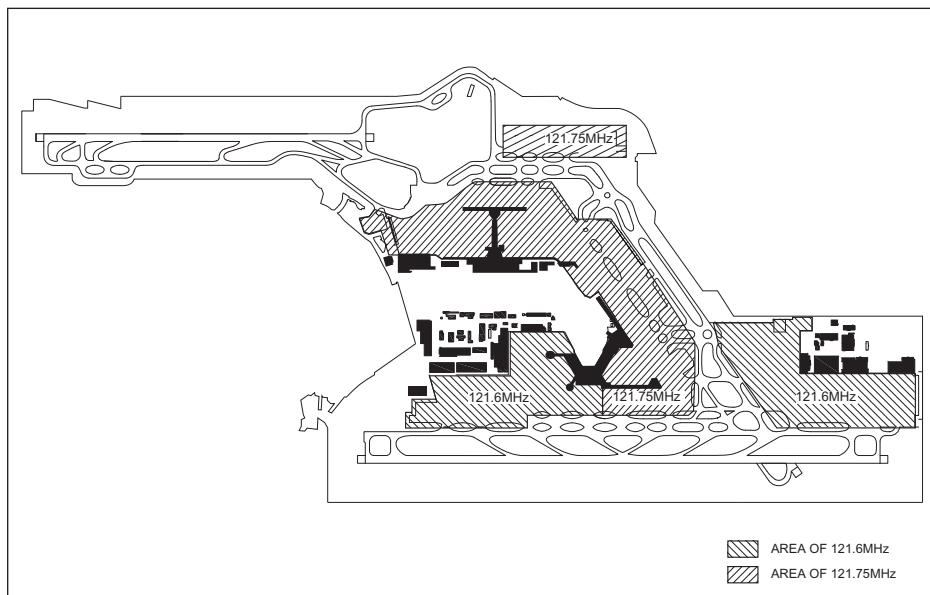
NOTE: DO NOT PROCEED INTO APRON WITHOUT APPROVAL FROM RAMP CONTROL.

(C) Ground Movement of Aircraft other than Departing and Arriving Aircraft

Obtain an approval for taxi from the "NARITA RAMP CONTROL" prior to its start, then conform to the provisions of the paragraph (A) (Item (a), (b) and (g) are excluded) and (B).

(D) Ground Movement of Towed Aircraft

Towed aircraft is also subject to the Ramp Control. For details, see the Aircraft Operations Regulations (UNYOKANRI SAISOKU).



2.2. TSAT Operation

1. Definition

Words are defined as follows;

1-1 TSAT (Target Start Up Approval Time)

A target time at which an aircraft can expect to receive the off-block (including pushback and self-taxiout) approval

1-2 TOBT (Target Off-Block Time)

A target time at which an aircraft is ready for off-block immediately upon reception of clearance from Narita Ramp Control

1-3 TSAT Operation

The operation designates the off-block time using TSAT, which aims to improve the capacity of runway and optimize taxi times on the ground

2. Subject Aircraft

All IFR departures whose EOBT stated in flight plan between 2100UTC and 1130UTC except for a following aircraft.

(1) An aircraft whose EDCT is 60 minutes or more after EOBT due to flow control, including when this EDCT is changed or cancelled.

(2) An aircraft that is assigned to hold on the ground due to flow control.

3. Operation procedures

3-1 TOBT

3-1-1 Aircraft Operator (AO)/Ground Handler (GH) should report TOBT no later than 25 minutes prior to EOBT. EOBT stated in flight plan will be processed as TOBT if manual input of TOBT cannot be accomplished.

3-1-2 TOBT should be input via Narita Airport Collaborative Decision Making (CDM) System ("CDM System").

3-1-3 TOBT can never be earlier than 15 minutes prior to EOBT, nor later than 30 minutes after EOBT.

3-1-4 An aircraft should be ready within +/-5 minutes of TOBT. If the aircraft is not ready within +/-5 minutes of last reported TOBT, the AO/GH should update TOBT accordingly.

3-1-5 Delay message described in AIP ENR 1.11.2.2 may not be substituted by TOBT.

3-2 Issue of TSAT

3-2-1 TSAT is issued by Voice radiotelephone (Voice RTF) or data link at Clearance Delivery.

[Example]

Voice RTF "TSAT 0930"

Data link "TSAT 0930"

3-2-2 TSAT is displayed on Visual Docking Guidance System (VDGS) 20 minutes prior to the TSAT. It should be noted that TSAT is generated 20 minutes prior to EOBT.

[Example]

First row: "TSAT", Second row: TSAT (in time),

Third row: Countdown to TSAT in minutes. (Figure 1)

After countdown of "0", it is displayed as "DLA" for 30 minutes. (Figure 2)

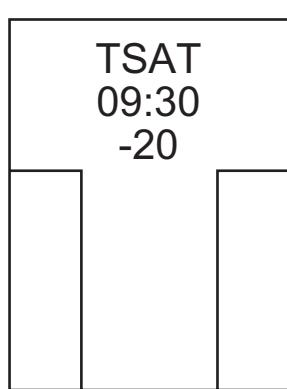


Figure 1

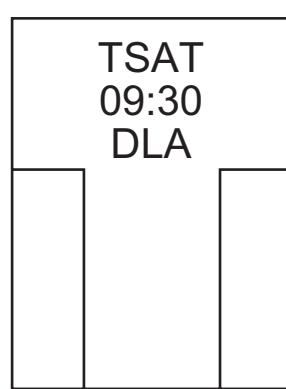


Figure 2

3-2-2-1 When TSAT is revised, it is informed by the message on VDGS.

[Example]

When TSAT on the second row is changed, the third row becomes "CHG" for 3 minutes and starts countdown. (Figure 3)

3-2-2-2 When TSAT is voided, it is displayed on VDGS.

[Example]

When TSAT is voided, the second row becomes "VOID" for 5 minutes. Then All displays go out. (Figure 4)

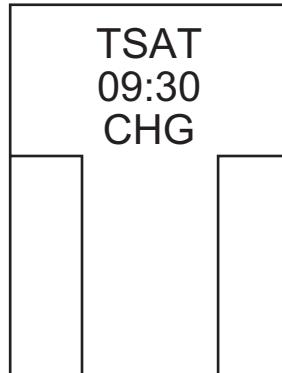


Figure 3

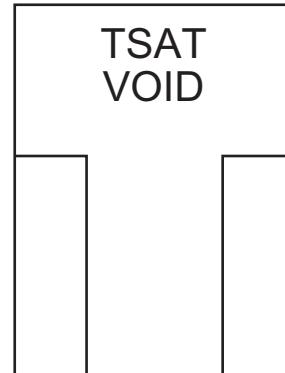


Figure 4

3-2-3 If VDGS is unserviceable or not installed in a parking stand, and TSAT is changed after ATC clearance has been issued, Narita Delivery or Narita Ramp Control informs a new TSAT to an aircraft.

3-3 Validation of TSAT

3-3-1 The aircraft should recognize the TSAT displayed on VDGS as the valid TSAT.

3-3-2 If the VDGS is not installed or unserviceable, an aircraft should recognize the last TSAT notified by Narita Delivery or Narita Ramp Control as the valid TSAT.

3-4 Cancellation

Narita Delivery or Narita Ramp Control notifies the aircraft by voice RTF or data link when TSAT is cancelled.

[Example]

Voice RTF "TSAT CANCELLED"

Data link "TSAT CNL"

3-5 Pushback/Taxi Request

3-5-1 An aircraft should ensure the aircraft is ready for Pushback/Taxi at TSAT after obtained ATC clearance following RJAA AD 2.22 (V) ATC Procedures (2) Departure (A) ATC clearance. Regardless of above, an aircraft is able to request Pushback/Taxi from 3 minutes earlier than TSAT when the aircraft is ready.

3-5-2 If the aircraft cannot achieve TSAT, TOBT should be updated accordingly. If manual input of TOBT cannot be accomplished, the aircraft should request Pushback/Taxi as soon as the aircraft is ready.

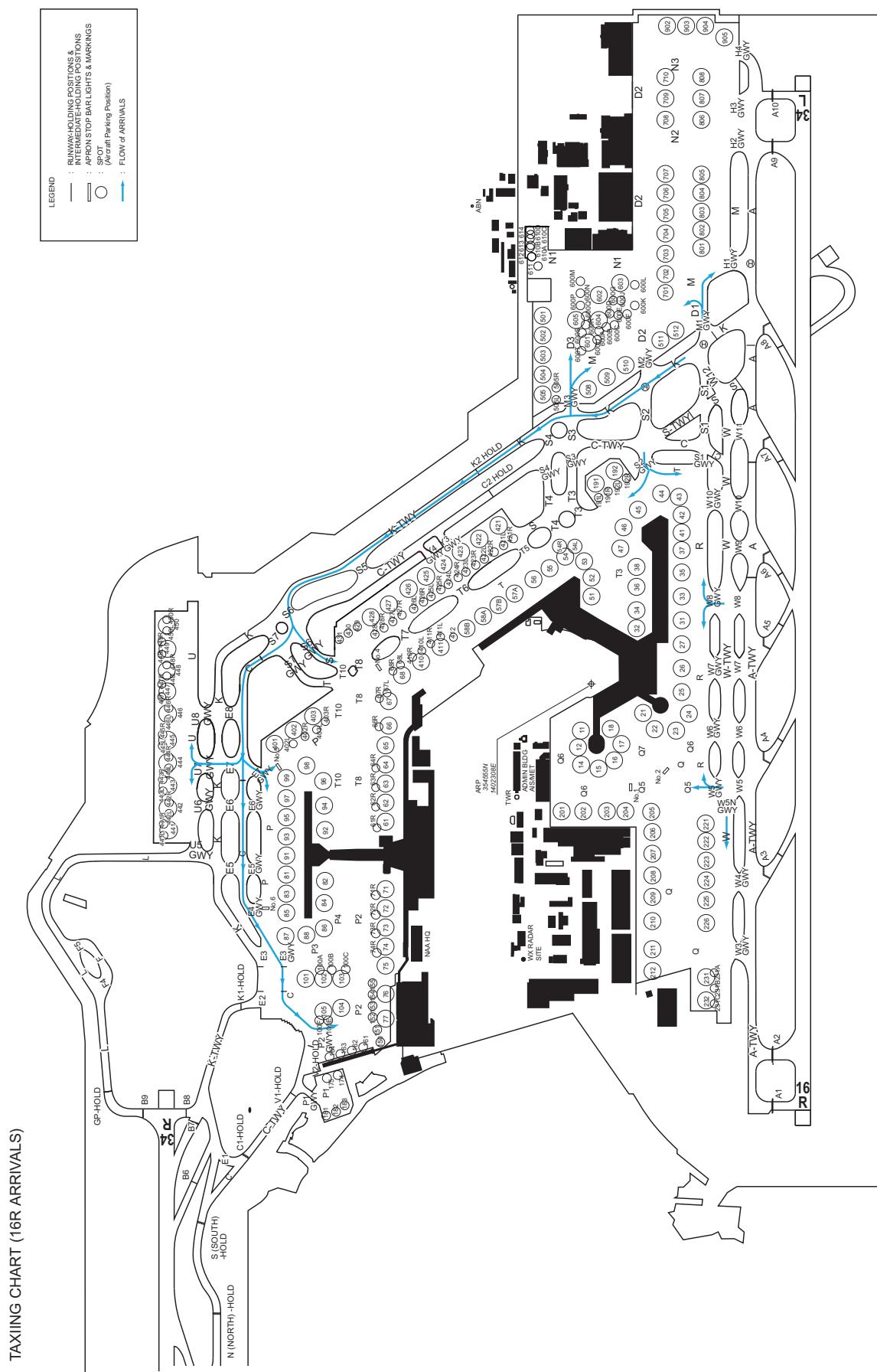
3-5-3 An aircraft is able to request Pushback/Taxi if Narita Delivery or Narita Ramp Control informs the TSAT has been cancelled regardless of displayed on VDGS.

3-5-4 Narita Ramp Control may give an instruction of Pushback/Taxi even before the TSAT depending on capacity of ground traffic. For that, the aircraft is requested to monitor the frequency instructed by Narita Delivery after obtaining ATC clearance.

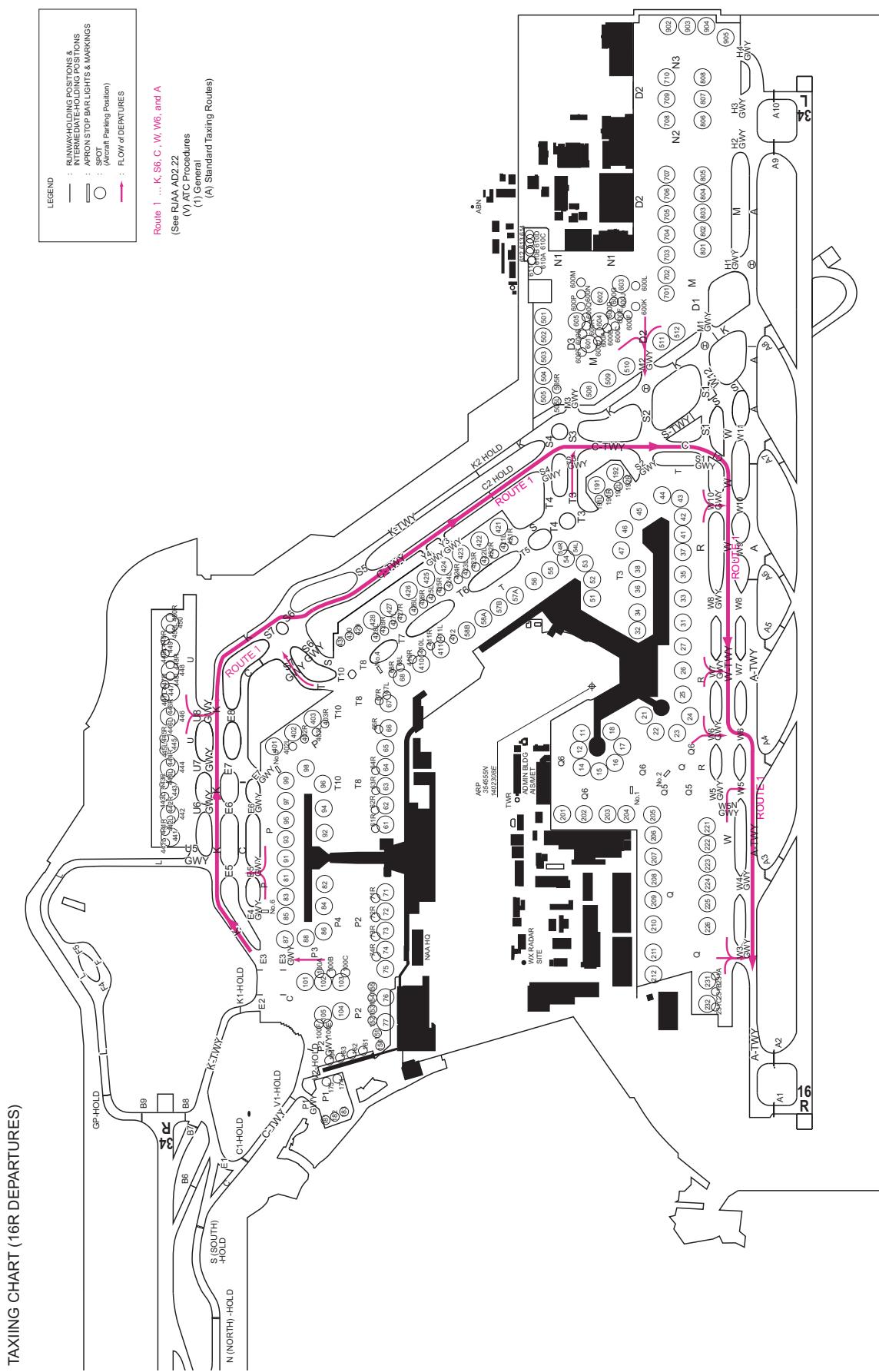
4. Suspension / Resumption of TSAT Operation

In case of suspension / resumption of TSAT Operation, it is announced by NOTAM RJAA and CDM System.

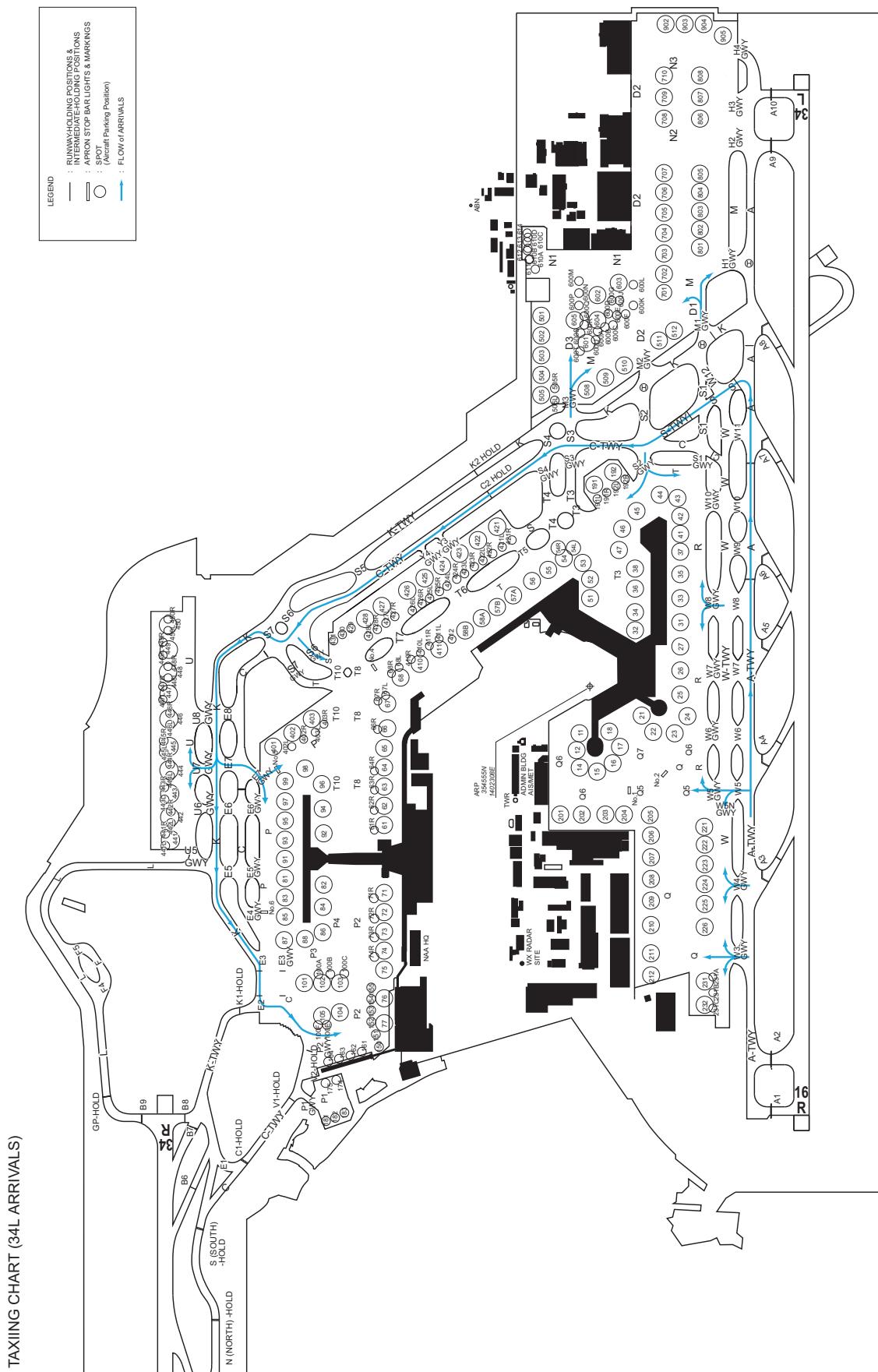
2.3. TAXIING CHART(16R ARRIVALS)



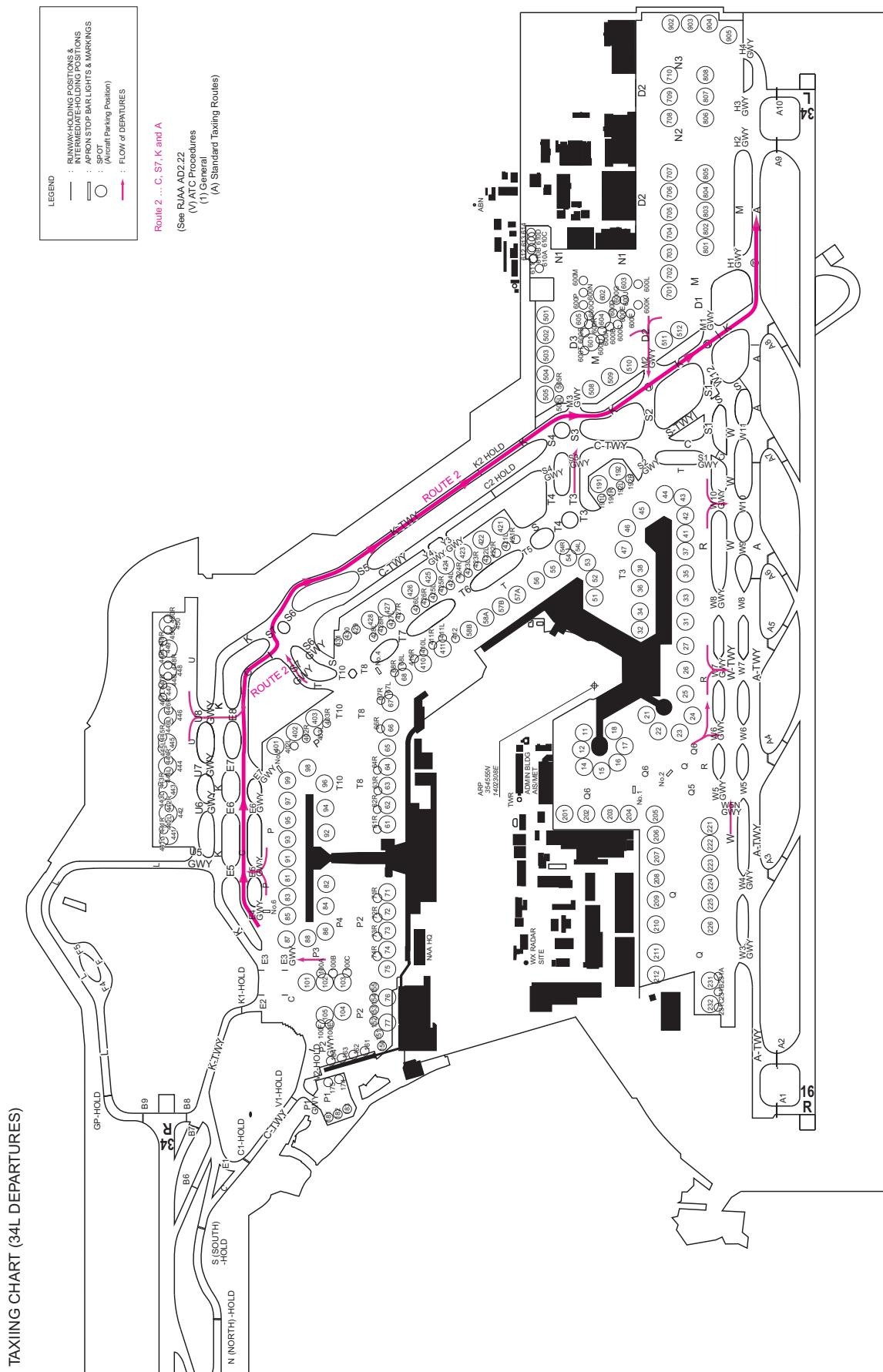
2.4. TAXIING CHART(16R DEPARTURES)



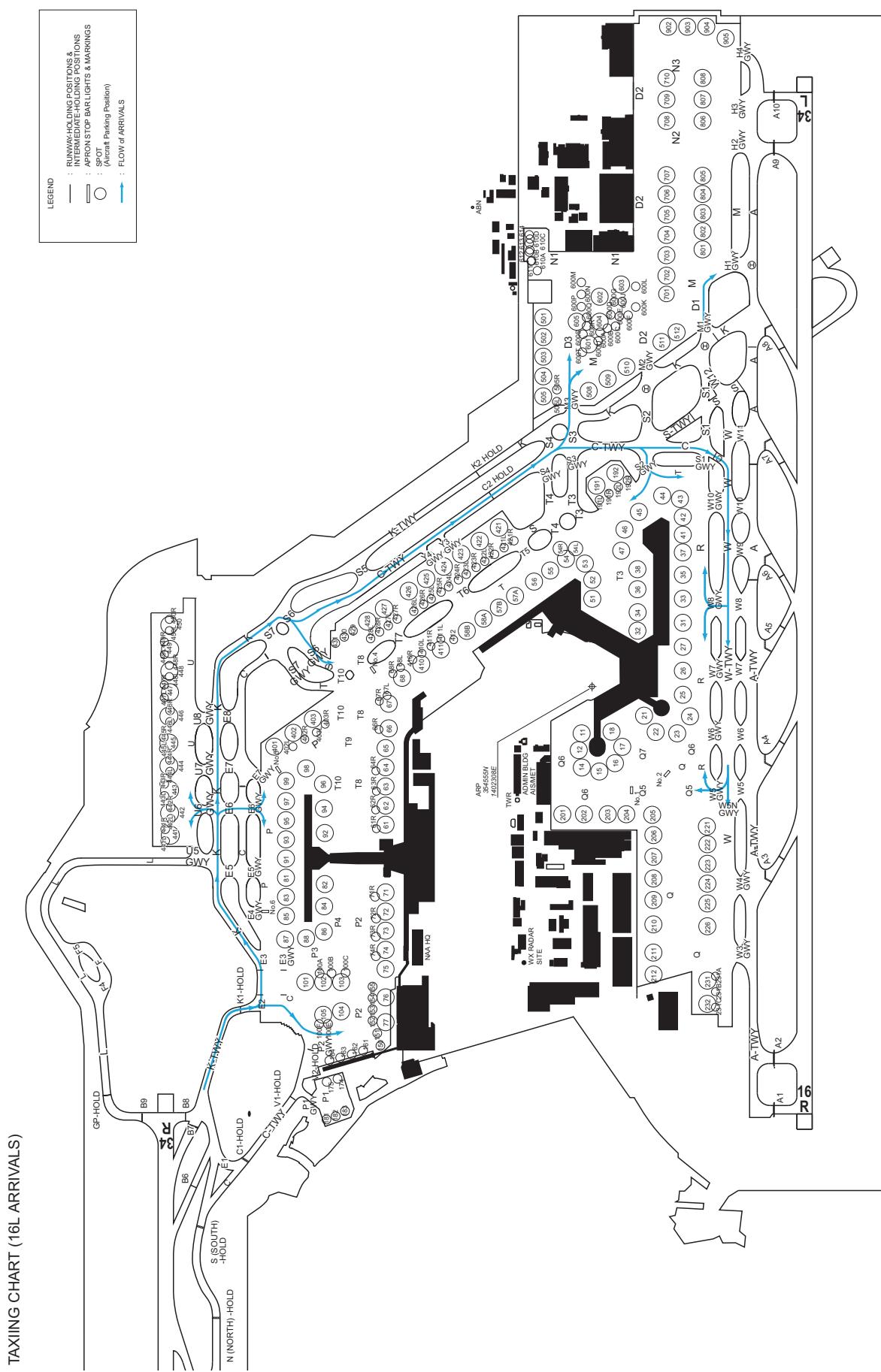
2.5. TAXIING CHART(34L ARRIVALS)



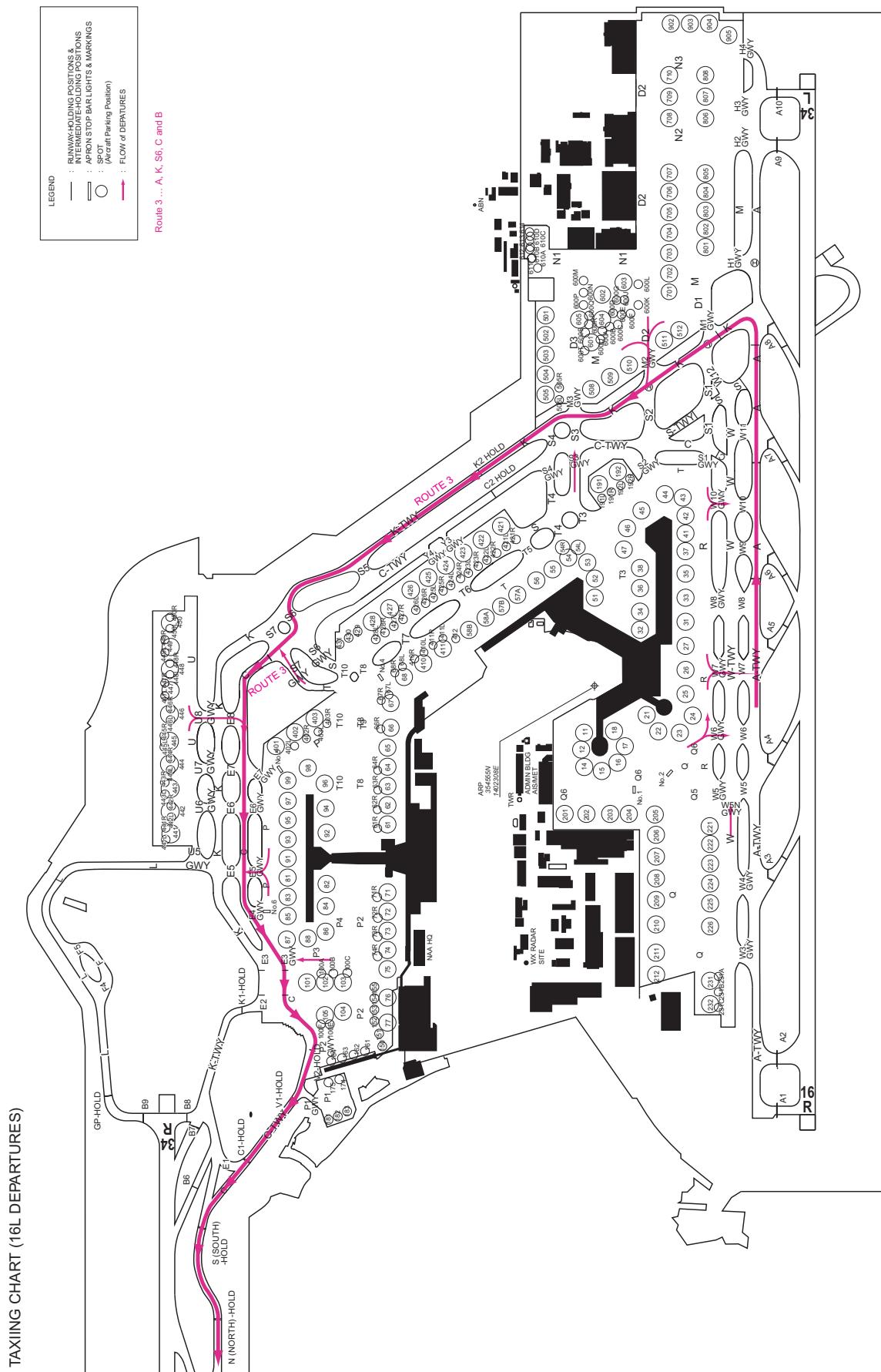
2.6. TAXIING CHART(34L DEPARTURES)



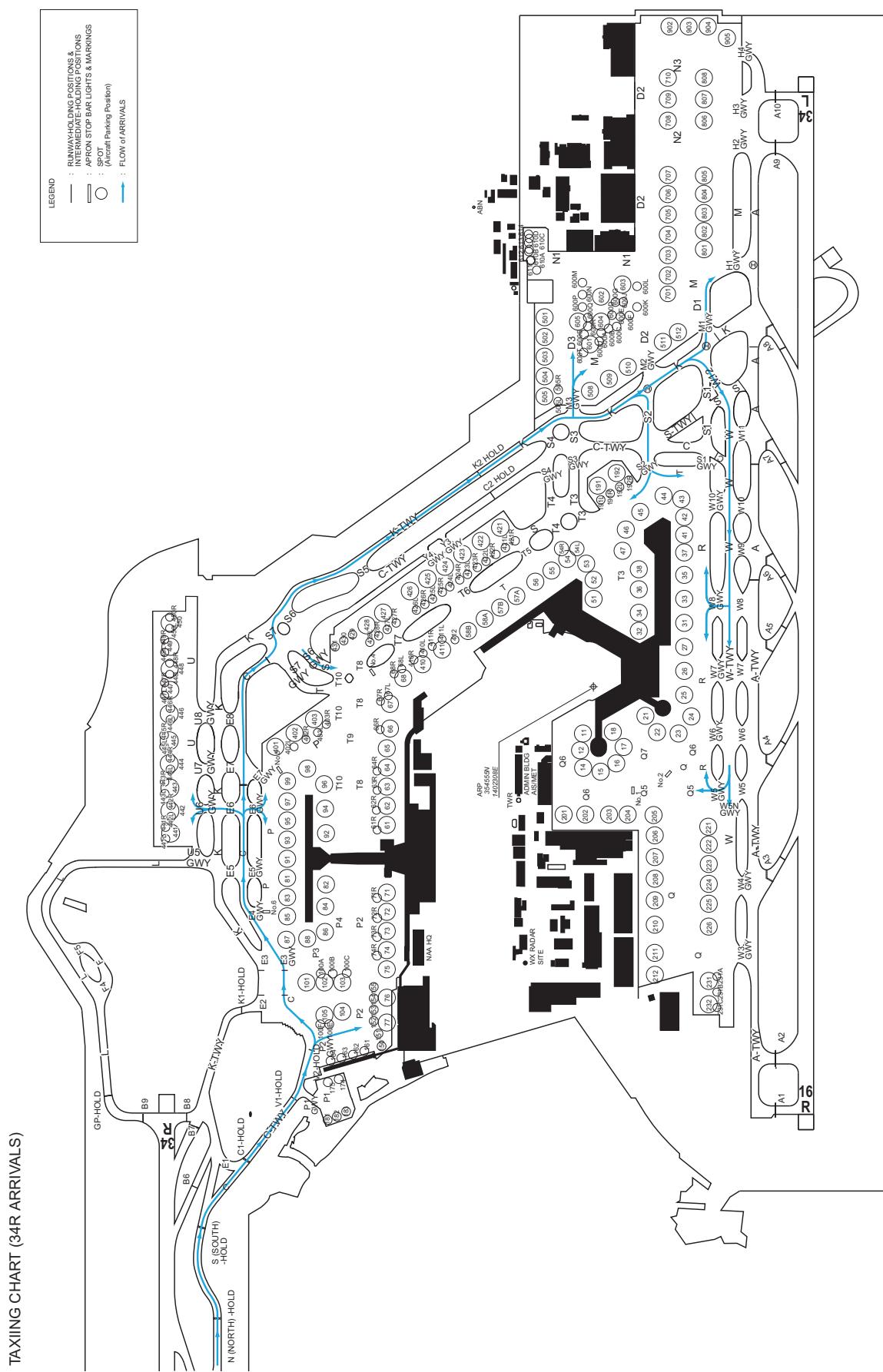
2.7. TAXIING CHART(16L ARRIVALS)



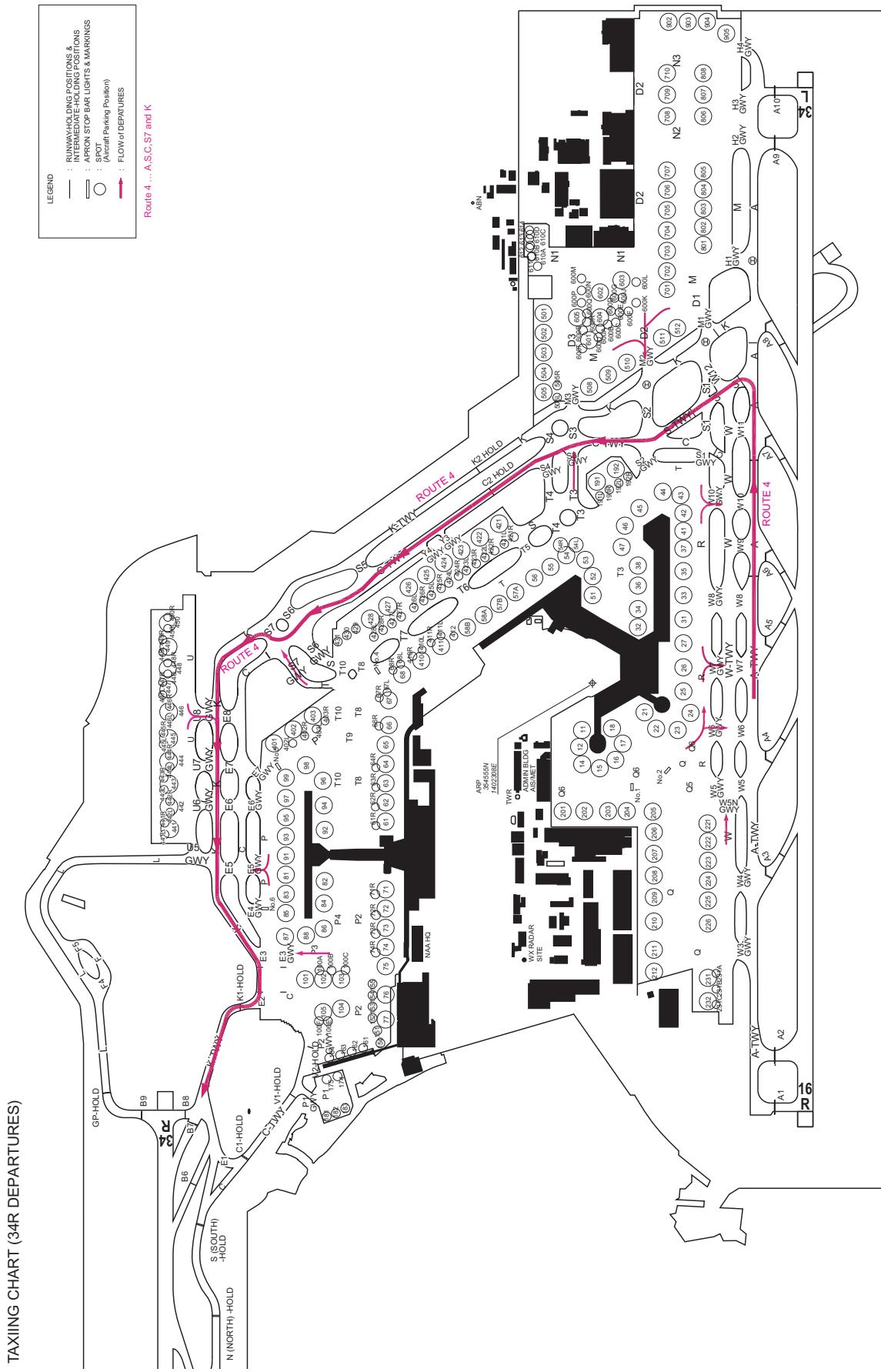
2.8. TAXIING CHART(16L DEPARTURES)



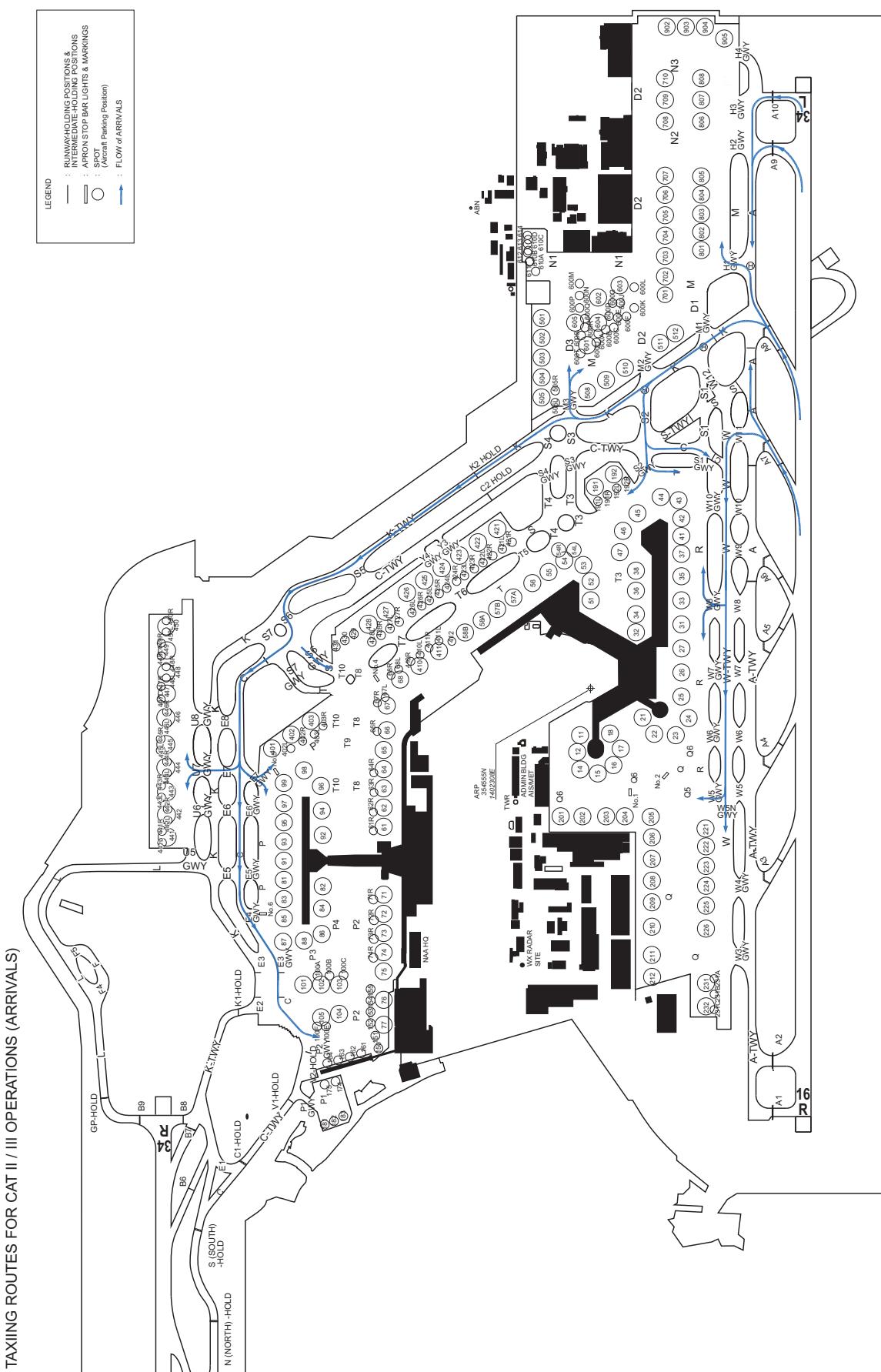
2.9. TAXIING CHART(34R ARRIVALS)



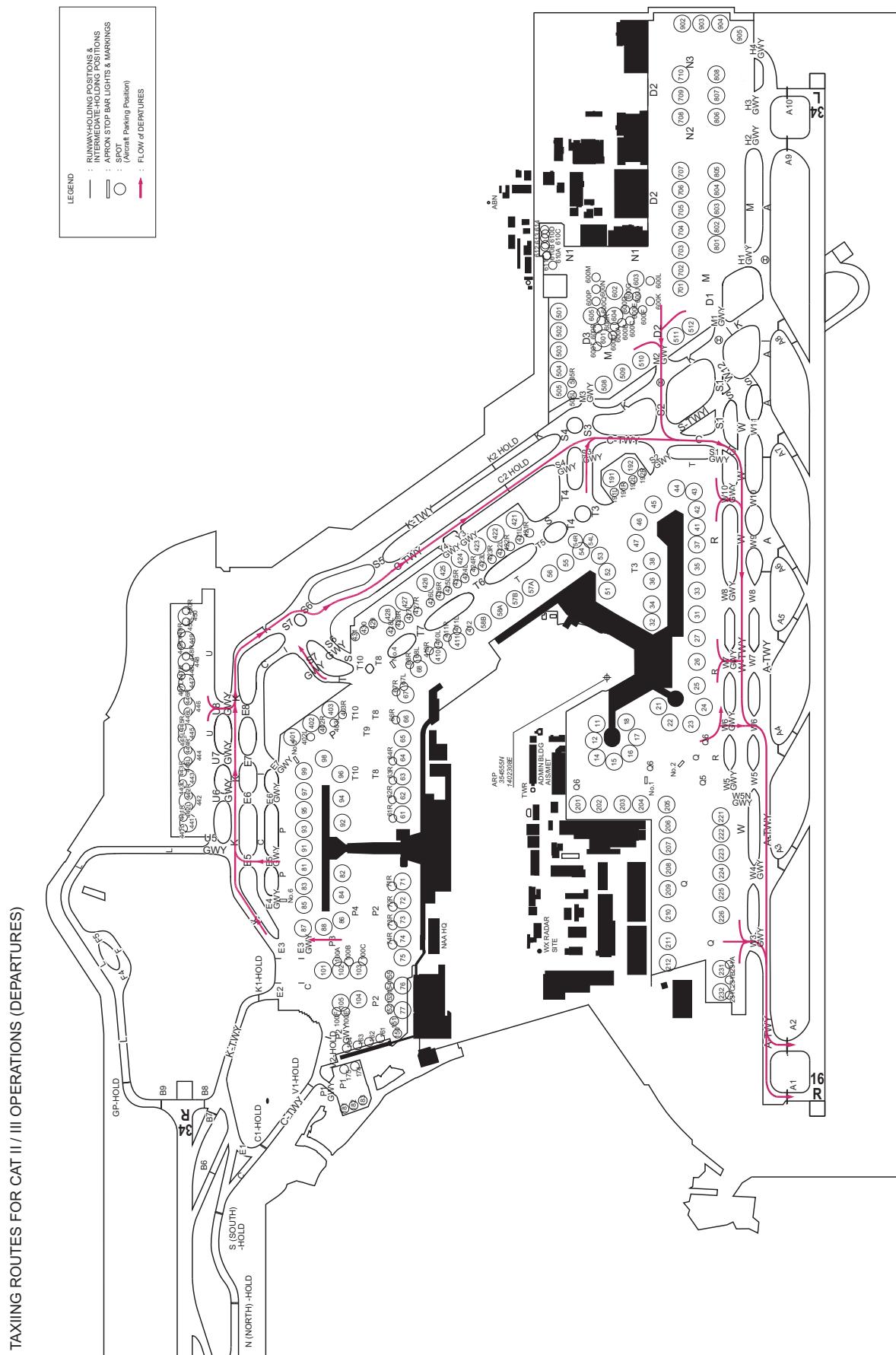
2.10. TAXIING CHART(34R DEPARTURES)



2.11. TAXIING ROUTES FOR CAT II/III OPERATIONS(ARRIVALS)



2.12. TAXIING ROUTES FOR CAT II/III OPERATIONS(DEPARTURES)



3. Parking area for small aircraft(General aviation)

| |
|-----|
| Nil |
|-----|

4. Parking area for helicopters

| |
|-----|
| Nil |
|-----|

5. Apron - taxiing during winter conditions

| |
|-----|
| Nil |
|-----|

6. Taxiing - limitations

1. Wing tip clearance at the TWY intersection (REF AD1.1 6.8)

Wing tip clearance at the TWY intersection between the aircraft holding at the stop marking on the TWY and the other aircraft taxiing behind it are as follows.

- (1) When B738 holding at the stop marking on TWY A2

| | | | |
|---|-------------|---------------------|------------|
| Wing Span (WS) of aircraft taxiing on A TWY | WS = <22.6m | 22.6m < WS = <39.6m | WS > 39.6m |
| Wing tip clearance | *A | *B | *C |

- (2) When B738 holding at the stop marking on TWY A3

| | | | |
|---|-----------|-----------------|----------|
| Wing Span (WS) of aircraft taxiing on A TWY | WS = <24m | 24m < WS = <41m | WS > 41m |
| Wing tip clearance | *A | *B | *C |

- (3) When B738 holding at the stop marking on TWY A4

| | | | |
|---|-----------|-----------------|----------|
| Wing Span (WS) of aircraft taxiing on A TWY | WS = <24m | 24m < WS = <41m | WS > 41m |
| Wing tip clearance | *A | *B | *C |

- (4) When B738 holding at the stop marking on TWY A5

| | | | |
|---|-----------|-----------------|----------|
| Wing Span (WS) of aircraft taxiing on A TWY | WS = <24m | 24m < WS = <41m | WS > 41m |
| Wing tip clearance | *A | *B | *C |

- (5) When B738 holding at the stop marking on TWY A6

| | | | |
|---|-----------|-----------------|----------|
| Wing Span (WS) of aircraft taxiing on A TWY | WS = <24m | 24m < WS = <41m | WS > 41m |
| Wing tip clearance | *A | *B | *C |

- (6) When B738 holding at the stop marking on TWY A7

| | | | |
|---|-----------|-----------------|----------|
| Wing Span (WS) of aircraft taxiing on A TWY | WS = <24m | 24m < WS = <41m | WS > 41m |
| Wing tip clearance | *A | *B | *C |

(7) When B738 holding at the stop marking on TWY A8

| | | | |
|---|-----------|-----------------|----------|
| Wing Span (WS) of aircraft taxiing on A TWY | WS <= 24m | 24m < WS <= 41m | WS > 41m |
| Wing tip clearance | *A | *B | *C |

(8) When B738 holding at the stop marking on TWY A9

| | | | |
|---|-----------|-----------------|----------|
| Wing Span (WS) of aircraft taxiing on A TWY | WS <= 24m | 24m < WS <= 41m | WS > 41m |
| Wing tip clearance | *A | *B | *C |

(9) When B738 holding at the stop marking on TWY B3

| | |
|---|-----------|
| Wing Span (WS) of aircraft taxiing on B TWY | WS <= 84m |
| Wing tip clearance | *A |

Legend:

- *A:wing tip clearance >=15m
- *B:6.5m < wing tip clearance <15m
- *C:wing tip clearance <6.5m

2. On TWY K between E2 and B8 (See RJAA AD2.24 AD Chart)

- Larger aircraft (such as B747-8, A340-600, B747-400, B777-200LR, B777-300/300ER and B777F) needs to reduce taxiing speed so as to accurately track the center line, as separation between either wing tip and the boundary fence in certain areas of the taxiway is limited to 10.5m.

3. MD11/DC10 operations on RWY 16L/34R

- MD11/DC10 needs to taxi with its center engine at idle on TWY B between F3 and K, TWY K between B and E2, in order to prevent jet blast.
- MD11/DC10 can not enter RWY16L/34R from B8, due to jet blast.

4. Restricted taxiways

- While taxiing in the apron area, follow yellow guideline strictly.
In addition, taxiing behind the spot 76 and 77, in order to keep clearance between other aircraft or obstacle, the aircraft with wingspan of 60m or longer shall reduce taxiing speed and follow the taxiway center line strictly.
- All aircraft for runway 34R shall hold at "GP HOLD" on TWY L until receiving further taxi clearance to protect ILS glide slope signal.
- Only the aircraft with wingspan less than 36m can taxi on TWY P1.

5. On Y3-GWY and Y4-GWY

- Only when the aircraft with wingspan less than 36m is approved by ramp control, traffic to C TWY from the apron throughout Y3-GWY and Y4-GWY is permitted.
Traffic to the apron from C TWY is not possible.

6. Taxilane

- On Taxilane T9, only A380 is permitted to taxi for NR96. (Taxilane T9 marking is blue.)

7. School and training flights - technical test flights - use of runways

Nil

8. Helicopter traffic - limitation

Nil

9. Removal of disabled aircraft from runways

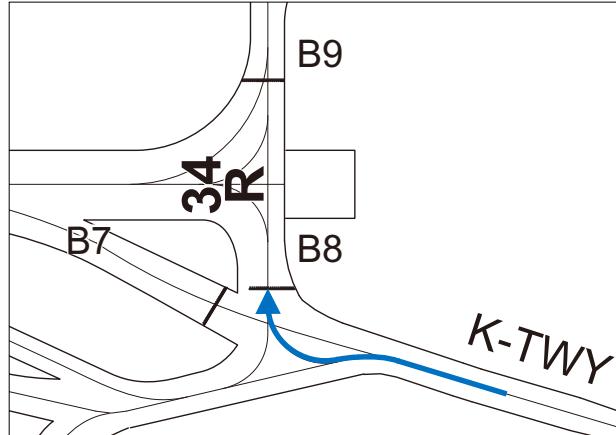
Nil

10. Hot Spot

A "HOT SPOT" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

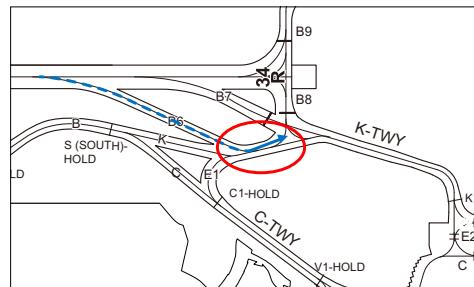
HS1Holding point B8

- I Aircrafts taxiing to holding point B8 are to make a slight left turn to join the centerline correctly.

**HS2**TWY K between B6 and B8 with slight upslope

Aircrafts exiting RWY16L via B6 sometimes slow down excessively or stop due to the upslope.

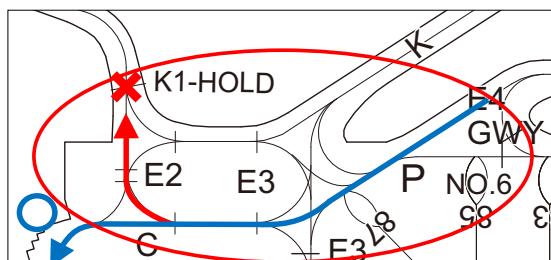
Manage taxi speed until passing B8 not to block next arrival from exiting RWY16L.

**HS3**Complex Intersection area with a convergence of numerous TWYs(K, C, E2, E3, P) and E3GWY.

Numerous cases of entering the wrong TWY occur in this area.

In particular, entering K by mistake will cause "head-on" traffic with aircraft vacating from RWY16L.

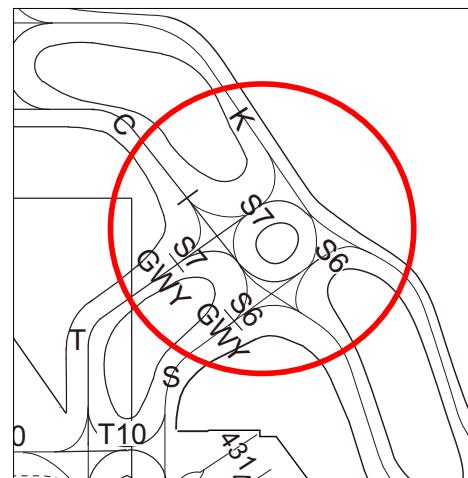
- I Aircrafts taxiing to RWY16L via C must not make a right turn at E2 without ATC authorization.



HS4

Complex intersection area with a convergence of numerous TWYs(K, C, S7, S6) and S7GWY/S6GWY.

- I Aircrafts taxiing via S7 or S6 should pay extra attention to signs and markings to avoid misunderstanding of TWYs.



RJAA AD 2.21 NOISE ABATEMENT PROCEDURES

| | |
|---|--|
| (I) 騒音軽減運航方式 | (I) Noise abatement Operating Procedures |
| (A) 空港周辺地域の航空機騒音を最小にするため、全ての乗員が次に掲げる運航方式、又は、これらの方と同等の効果がある他の適切な方式を採用するよう強く求めるものである。ただし、これらの方採用の最終的な権限はそれぞれの機長に委ねられており、機長が安全上の理由により必要と判断する場合は他の方を採用することができる。 | (A) It is strongly requested of all pilots to apply the following procedures, or any other appropriate procedures which are in effect equivalent to these procedures, in order to minimize public annoyance due to aircraft noise in the vicinity of the airport. The final authority to apply these procedures, however, rests on each pilot in command, and he may use other appropriate procedures if he determines it is necessary in the interest of safety. |
| 1) 離陸について | 1) Take-off |
| a) 離陸より 1500 フィート AGL(1635 フィート MSL) まで -離陸推力 -離陸フラップまたは騒音軽減のための最適フラップ -最大上昇勾配が得られる速度（機体姿勢角の制限範内であること） 例.V2+10kt または 1.3Vs のうちいずれか大きい速度での上昇 | a) Take-off to 1500ft AGL(1635ft MSL) • take-off power • take-off flaps or optimum flap setting for noise reduction. • climb at speed to gain maximum climb angle or as limited by body angle. e.g.V2+10kt or 1.3Vs whichever is greater |
| b) 1500 フィート AGL(1635 フィート MSL)において -上昇推力を下回らない出力まで減少 - a) と同様なフラップ及び速度 | b) At 1500ft AGL(1635ft MSL) • reduce power to not less than climb power • flaps and speed same as in a) |
| c) 3000 フィート AGL(3135 フィート MSL)、またはそれ以上において -運航上昇のための通常速度及びフラップ上げ操作 | c) At 3000ft AGL(3135ft MSL) or above • normal speed and flap retraction schedule to enroute climb |
| 2) 進入について (ディレイド・フラップ進入及び低フラップ角着陸でのフラップ角設定) | 2) Approach (delayed flap and reduced flap setting) a) Extend final landing flaps after passing 4DME from IKF for RWY16R, 4DME from ITM for RWY16L, 4DME from ITJ for RWY34R or 4DME from IYQ for RWY34L. b) Use, as the final landing flap setting, the minimum certificated landing flaps setting forth in the approved performance information in the Airplane Flight Manual for the applicable conditions. |
| (B) 優先滑走路方式 なし | (B) Preferential Runways Procedures Nil |
| (C) 優先飛行経路 なし | (C) Noise Preferential Routes Nil |

| |
|---|
| (II) Other Information |
| (A) Notwithstanding item (C), for improvement of noise abatement procedures, all aircraft departing from Narita International Airport strictly follow extension of the runway center line until passing 14DME from NRE for RWY16R, 14.0DME from NRE for RWY16L, 6DME from NRE for RWY34L or 5.5DME from NRE for RWY34R. |
| (B) Aircraft engine ground run-up In order to minimize noise disturbance in areas adjacent to this Airport, ground run-up of aircraft engine(s) is controlled in accordance with instructions specified in Narita International Airport Administrative Regulations (KUKO KANRI KITEI). |
| (C) Observance of the flight routes Unless otherwise instructed by ATC or under unavoidable circumstances, all aircraft arriving at and/or departing from the airport, over the inland area, are requested to follow the routes as prescribed in STARs and SIDs. |
| (D) Restrictions about the use of auxiliary power unit (APU) When an aircraft is using an aircraft parking stand with fixed power facilities, APU shall not be used outside the time periods specified below except when specifically acknowledged by the authority as necessary. (a) Less than 15 minutes prior to the estimated time of departure. (b) The minimum time required for switching over to the fixed power facilities, after arrival at the parking stand. (c) For the minimum time required for aircraft maintenance purposes if needed. |
| NOTE: Spot 11, 12, 14 - 18, 21 - 27, 31 - 38, 41 - 47, 51 - 56, 57A, 57B, 58A, 58B, 61 - 68, 71 - 77, 81 - 88, 91 - 99, 151 - 155, 161 - 164, 174, 175, 201 - 204, 206 - 212, 221-226, 231, 232, 410, 411 are aircraft parking stands with fixed power facilities. |

RJAA AD 2.22 FLIGHT PROCEDURES**(I) TAKE OFF MINIMA**

| | RWY | ACFT CAT | REDL & RCLL | | REDL or RCLL or RCL Marking | | NIL (DAYTIME ONLY) | |
|---|-----|----------|---|--------------------------|-----------------------------|--------------------------|--------------------|--------------|
| | | | CEIL-RVR | CEIL-VIS | CEIL-RVR | CEIL-VIS | CEIL-RVR | CEIL-VIS |
| Multi-Engine ACFT with TKOF ALTN AP FILED | 16R | A,B,C | 0' - 400m * 0' - 200m **0' - 150m | 0' - 400m * 0' - 200m | 0' - 400m * 0' - 250m | 0' - 400m * 0' - 250m | - | 0' - 500m |
| | | D | 0' - 400m * 0' - 250m **0' - 200m | 0' - 400m * 0' - 250m | 0' - 400m * 0' - 300m | 0' - 400m * 0' - 300m | - | 0' - 500m |
| | 34L | A,B,C,D | 0' - 400m | 0' - 400m | 0' - 400m | 0' - 400m | - | 0' - 500m |
| | 16L | A,B,C,D | 200' - 1600m | 200' - 1600m | 200' - 1600m | 200' - 1600m | - | 200' - 1600m |
| | 34R | A,B,C,D | 0' - 400m | 0' - 400m | 0' - 400m | 0' - 400m | - | 0' - 500m |
| OTHER | 16R | A,B,C,D | AVBL LDG MINIMA | | | | | |
| | 34L | | AVBL LDG MINIMA | | | | | |
| | 16L | | AVBL LDG MINIMA | | | | | |
| | 34R | | AVBL LDG MINIMA | | | | | |

* APPLICABLE WHEN LVP/LVPD IN FORCE.

** APPLICABLE WHEN LVP/LVPD IN FORCE and MULTIPLE RVRs AVAILABLE.

(II) Lost communication procedures for arrival aircraft under radar navigational guidance

If radio communications with Tokyo Approach/Radar are lost for 1 minute, squawk Mode A/3 Code 7600 and;

1. Contact Narita Tower.
2. If unable, proceed in accordance with visual flight rules.
3. If unable,
 - (1) RWY 34L/R; proceed to GIINA at last assigned altitude or 4,000 feet whichever is higher, and make an instrument approach to RWY34L.
 - (2) RWY 16L/R; proceed to LAKES at last assigned altitude or 6,000 feet whichever is higher, and make an instrument approach to RWY16R.

NOTE: Procedures other than above will be issued when situation required.

(III) Category II / III Operations at Narita International Airport

1. Facilities

The following facilities are available:

| Runway 16R |
|--|
| <ul style="list-style-type: none"> • ILS Runway 16R-CAT III • Lighting system Runway 16R-CAT III • RVR by forward-scatter meters (the touchdown zone, the mid-point and stop-end of the runway) |

2. Conditions

A. The following systems must be operative:

| For ILS RWY 16R approach (CAT II) | For ILS RWY 16R approach (CAT III) |
|--|---|
| (1) ILS comprising; <ul style="list-style-type: none"> • ILS-LOC 16R with standby transmitter • ILS-GP 16R with standby transmitter (When any standby transmitters unserviceable, downgrade ILS-CAT I.) • IM16R (When IM unserviceable, RA could be used as an alternate method) • ILS-DME 16R | (1) ILS comprising; <ul style="list-style-type: none"> • ILS-LOC 16R with standby transmitter (including far field monitor) • ILS-GP 16R with standby transmitter (When any standby transmitters or far field monitor unserviceable, downgrade ILS-CAT I.) • ILS-DME 16R |
| (2) Lighting system comprising; <ul style="list-style-type: none"> • PALS 16R (including side row barrettes) • High INTST REDL • High INTST RTHL • RCLL and RTZL | (2) Lighting system comprising; <ul style="list-style-type: none"> • PALS 16R (including side row barrettes) • High INTST REDL • High INTST RTHL • RCLL and RTZL |
| (3) Secondary power supply | (3) Secondary power supply |
| (4) RVR by forward-scatter meters at the touchdown zone and either (the mid-point or stop-end of the runway). | (4) RVR by forward-scatter meters at the touchdown zone, mid-point and stop-end of the runway. |

B. The following information must be currently available:

- a) Surface wind speed and direction
- b) RVR

C. ITEM A and/or B are not met, the relevant information will be notified to the pilots as soon as practicable.

3. Precision Approach Terrain Profile Chart

See RJAA AD2.24

4. Operating Minimum

Approach minima stated in AD2.24(Instrument Approach Chart) are observed.

5. LVP

(1) LVP will be available when the following conditions are met:

- a) Ceiling is at or less than 200ft and/or RVR is at or less than 600m.
- b) Facilities listed 1. above are operational.
- c) ILS Critical Area is protected.

(2) Taxiway available for CAT II / III Operations

- a) Exit taxiway: A7 - A10

NOTE: A6 is not available as exit taxiway. (Its taxiway center line lights will be turned off.)

- b) Taxi routes as shown in RJAA AD2.20.2.10.TAXIING ROUTES FOR CAT II/III OPERATIONS(ARRIVALS)

- c) In order to protect ILS Critical Area, an arrival aircraft may be given following instruction by ATC.

" REPORT OUT OF ILS CRITICAL AREA "

The exit taxiway center line lights are fixed alternate green and yellow inside the ILS Critical Area. If an aircraft is given the above instruction, she is expected to advise the ATC when the exit taxiway center line lights change from alternate green and yellow to steady green.

6. FOLLOW-ME service :

FOLLOW-ME service will be available on request.

7. Approval for CAT II / III Operations

Operations must obtain operational approval from the State of Registry or State of Operator, as appropriate, to conduct CAT II / III Operations.(See GEN1.5)

(IV) LVTO at Narita International Airport

1. Facilities

The following facilities are available:

| Runway 16R |
|--|
| • Lighting system RWY 16R for LVTO |
| • RVR by forward-scatter meters (the touchdown zone, the mid-point and stop-end of the runway) |

2. Conditions

A. The following systems must be operative:

| For LVTO |
|---|
| (1) Lighting system comprising; • High INTST REDL • High INTST RENL • RCLL |
| (2) Secondary power supply |

B. The following information must be currently available:

- a) Surface wind speed and direction
- b) RVR or VIS

C. ITEM A and/or B are not met, the relevant information will be notified to the pilots as soon as practicable.

3. Operating Minima

Take-off minima stated in AD2.22 (TAKE-OFF MINIMA) are observed.

4. LVP/LVPD

(1) LVP/LVPD will be available when the following conditions are met:
a) RVR is at or less than 600m.
b) Facilities listed 1. above are operational.

(2) Taxiway available for LVTO

- a) Entering taxiway: A1 and A2

NOTE: Stop bar lights on A1 and A2 are controlled individually by ATC.

b) Taxi routes as shown in RJAA AD2.20.2.11.TAXIING ROUTES FOR CAT II/III OPERATIONS(DEPARTURES)

(V) ATC Procedures

For the purpose of ensuring to provide the aircraft in and out of Narita with more orderly and efficient flow of traffic, aircraft operators are strongly requested to observe prearranged scheduled time and to comply with the following.

(1) General

(A) Standard Taxiing Routes (See RJAA AD2.20)

Unless otherwise required, the standard taxiing routes for Departure are instructed by ATC using route names in the table below.

| | | Route Name | Routing via |
|-----------|-----------|------------|-----------------------|
| Departure | to RWY16R | ROUTE 1 | K, S6, C, W, W6 and A |
| | to RWY34L | ROUTE 2 | C, S7, K and A |
| | to RWY16L | ROUTE 3 | A, K, S6, C and B |
| | to RWY34R | ROUTE 4 | A, S, C, S7 and K |

NOTE: Alternate routing may be instructed by ATC as required.

(2) Departure

(A) ATC clearance

ATC clearance will be obtained by "Voice radiotelephone (Voice RTF)" or "Departure Clearance by data link (DCL)".

Show in detail below (a) or (b).

| CLEARANCE FLOW | (a) Voice RTF | (b) DCL |
|-------------------|--|---|
| REQUEST CLEARANCE | <p>Call Narita Delivery (121.9) at 15 minutes before starting engines, with the following information.</p> <ul style="list-style-type: none"> (1) Call sign (2) Destination (3) Proposed flight level (4) Parking position (spot number) | <p>Refer to ENR 1.5.4.1 (Operation for Departure Clearance by data link (DCL))</p> <ul style="list-style-type: none"> - Send RCD message at 15 minutes before starting engines. - Monitor Narita Delivery (121.9). <p>NOTE:</p> <ul style="list-style-type: none"> - Start monitoring Narita Delivery (121.9) once RCD message is sent. In case coordination is required, Narita Delivery calls the pilot on Voice RTF. |
| OBTAIN CLEARANCE | <p>Clearance will be delivered on Voice RTF or DCL as soon as possible after coordination with TOKYO ACC.</p> <p>NOTE:</p> <ul style="list-style-type: none"> - Clearance to specific aircraft will be deferred when coordination is not completed. If ATC clearance is not received in spite of being ready to start engines, the pilot shall inform Narita Delivery (121.9). | |
| CALL READY | <p>Call Narita Delivery (121.9) when ready to start engines.</p> <p>Regardless of clearance source, pilots shall report ready to start engines (=doors are closed, boarding bridge removed, push-back vehicle connected.) to Narita Delivery (121.9)</p> <p>NOTE:</p> <ul style="list-style-type: none"> - ATC will give different frequency (Narita Delivery 121.65 or Narita Ramp Control 121.6/121.75) to call ready to start engines if the situation requires. | |
| START ENGINES | <ul style="list-style-type: none"> - Delay information will be given if the situation requires - Contact Narita Ramp Control for approval to start engines ONLY WHEN instructed either Voice RTF or DCL by ATC | |

(B) Intersection departure

The remaining runway length for intersection departures are as follows.

| Runway | Taxiway | Remaining runway length* |
|--------|----------------|--|
| 34L | A9 | 3,630m (11,930 feet) |
| 16R | A2 | 3,610m (11,870 feet) |
| 34R | B6 B7 | 1,860m (6,100feet) 2,100m (6,890feet) |
| 16L | B2 B3 B4 | 2,030m (6,660feet) 2,150m (7,050feet) 1,740m (5,710feet) |

*Rounded down to the nearest 10m (10ft) from the measurement between the point where TWY CL meets RWY CL and RWY THR.

- (C) Pilot should ensure that they are able to follow the clearance to the take-off position or the take-off clearance without delay to reduce runway occupancy time. Cockpit check should be completed prior to line-up and checks requiring completion on the RWY should be kept to a minimum. If unable to do so, notify to Narita Tower.

(3) Arrival

- (A) Aircraft on final approach and in the control zone are recommended to turn the landing lights on.
 (B) Speedy Turn-Off Procedure
 (a) For purposes of reducing runway occupancy time, pilots in their approach/landing briefing should plan on a specific exit taxiway and after landing, pilots should vacate the runway without delay, unless the use of another exit taxiway is assigned by ATC or unless the safety of the aircraft is jeopardized.
 (b) The exit taxiways, as a rule, which arriving aircraft should plan to use for vacating the runway, are listed below.

| Runway | Taxiway | Distance from threshold(m/ft) | Remarks |
|--------|---------|-------------------------------|---------|
| 34L | A5 | 1,800m(5,900feet) | BTCL |
| | A4 | 2,250m(7,380feet) | BTCL |
| 16R | A6 | 1,800m(5,900feet) | BTCL |
| | A7 | 2,250m(7,380feet) | BTCL |
| 34R | B4 | 1,740m(5,700feet) | BTCL |
| | B2 | 2,030m(6,660feet) | NONE |
| 16L | B6 | 1,860m(6,100feet) | BTCL |
| | B7 | 2,100m(6,890feet) | NONE |

Remarks :Brighter Taxiway Center line Lights (BTCL) Installation

For purposes of assisting the speedy turn-off, the intensity of the taxiway center line lights listed above will be brighter than that of other taxiways to improve the recognition of these locations.

Those lights are also lighted during daytime VMC to clearly indicate the exit taxiways, however those lights may be turned off or may not be brighter due to other operational requirements.

- (c) Should pilots plan to use other exit taxiways other than those listed above, where possible, pilots should inform ATC accordingly.
 However, ATC may not be able to assign the exit taxiway as requested due to traffic conditions or any other reason.

(VI) SIMULTANEOUS PARALLEL INDEPENDENT DEPARTURES (SPID)**1. Applicable aircraft for SPID**

SPID will be conducted for the aircraft flying RNAV1 SID on the adjacent runway complexes (RWY34L/34R or RWY16L/16R).

Note: For RWY34R, pilots are required to set the appropriate speed to avoid unintentional deviations (ex. ROUTE DISCONTINUITY on FMS*) especially under strong wind conditions aloft.

* FMS: Flight Management System

2. Conditions

SPID, where radar separation minima between aircraft on the adjacent straight-out departure courses are not prescribed, will be conducted when the following conditions are met. However, SPID shall not be applied under certain adverse weather conditions which might affect safe operations (e.g. windshear, strong crosswind, severe weather activity such as thunderstorms).

- (1) Departure No Transgression Zone (DNTZ) 610m wide is established equidistant between initial straight-out segments of departure courses and is depicted on the radar display.
- (2) Radar and appropriate frequencies are operating normally.

3. Information of SPID

Aircraft shall be advised that SPID are in force. This information may be provided through ATIS broadcasts.

"Simultaneous parallel departures (from runway [number] left and right are) in progress."

4. FMS Validation and Phraseologies

- (1) Pilots shall verify that the required RNAV path to the initial waypoint on the loaded SID is correctly associated with the departure runway. (see Table 1)

The following phraseologies require pilots' action to validate correct programming of the departure runway and departure procedures in FMS prior to take-off.

"VERIFY INITIAL WAYPOINT [initial fix]."

"RNAV TO [initial fix], RUNWAY [number], CLEARED FOR TAKE OFF."

Table 1: The initial fixes on RNAV SIDs associated with runway.

| RUNWAY | INITIAL FIX | Departure Frequency* |
|--------|-----------------------------|----------------------|
| 34L | ARIES(ASTRA ^{**}) | 124.2MHz |
| 34R | BOXER | 119.6MHz |
| 16L | BEAMS | 119.6MHz |
| 16R | ASPEN | 124.2MHz |

* Unless otherwise instructed by ATC, a departure frequency is assigned for each runway.

* Do not change a frequency to the Departure Frequency until instructed by Tower.

** Only for PEDLA [number] DEPARTURE

- (2) If the loaded SID in FMS does not satisfy the initial-waypoint verification, pilots shall immediately advise ATC and shall not take-off until alternative instructions are received.

5. Track monitoring

Track monitoring for SPID shall be provided as follows;

- (1) Track monitoring controllers for each runway provide an initial departure control to ensure aircraft does not deviate from the required path within the initial straight-out climb.

Note: Parallel RNAV departures must not encroach on the airspace between extended parallel runway centerlines without specific ATC clearance. Manually intervene if necessary to stay on track to avoid transgressing in the direction of a parallel track.

- (2) Aircraft observed to continue on a track which will penetrate DNTZ will be instructed a heading to avoid aircraft on the adjacent departure course. If a deviating aircraft fails to respond to such instructions or is observed to penetrating DNTZ, the aircraft on the adjacent departure course shall be instructed to avoid the deviating aircraft.

"TRAFFIC ALERT, [repeat aircraft identification], TURN LEFT/RIGHT IMMEDIATELY, HEADING [number], (CLIMB AND) MAINTAIN [altitude]."

6. Response to "TRAFFIC ALERT"

All breakouts in response to ATC's instructions shall be accomplished quickly. These instructions will be issued on TOWER FREQUENCY or DEPARTURE FREQUENCY when situation required.

(VII) SPECIAL VFR FLIGHT ROUTE FOR HELICOPTER

Special VFR flight route for helicopter in the NARITA CONTROL ZONE (See Visual REP chart)
SHISUI-ROUTE: SHISUI-TOMISATO-LUNCH

RJAA AD 2.23 ADDITIONAL INFORMATION

1. HELIPAD

- (1) Three helipads on TWY intersections of TWY K and S2, K and S1, A and H1. (Refer to the Aerodrome Chart)
(2) Helipad WEST located on the west side of RWY34L. (Refer to the Aerodrome Chart)

2. Scheduled maintenance hours on the runway

Scheduled runway unserviceability due to runway and facilities maintenance. (See NOTAM RJAA)

3. Vehicle traffic lines

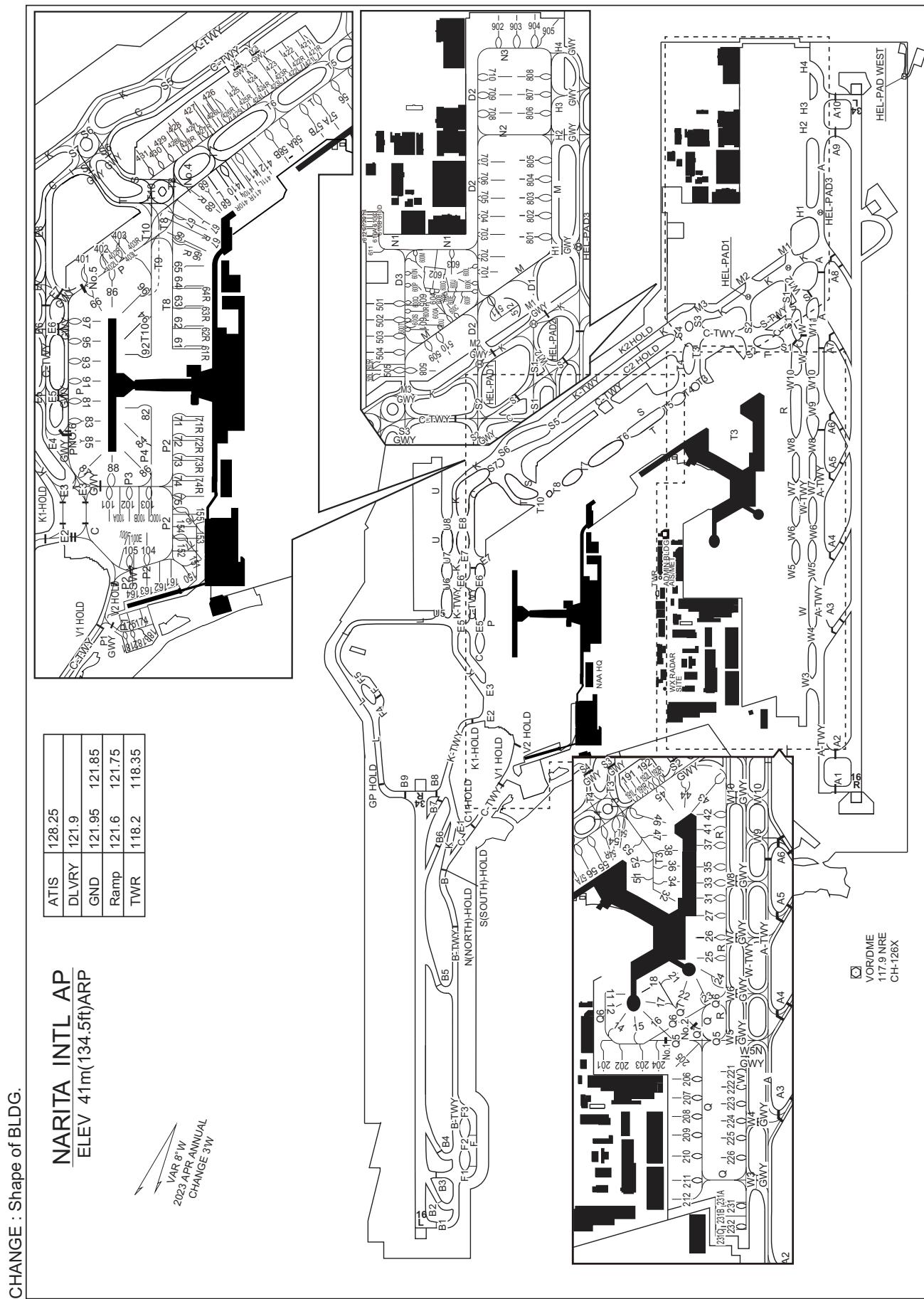
White broken lines in the apron areas (15 centimeter wide, 3 meter long, 2 meter apart).

4. Obstruction

There are trees penetrating above the approach surface at the area about 400m before the Runway 34R threshold. Refer to attachment for detailed description and illustration of these obstructions and their relative positions to the obstruction lights. (See RJAA AD2.24)

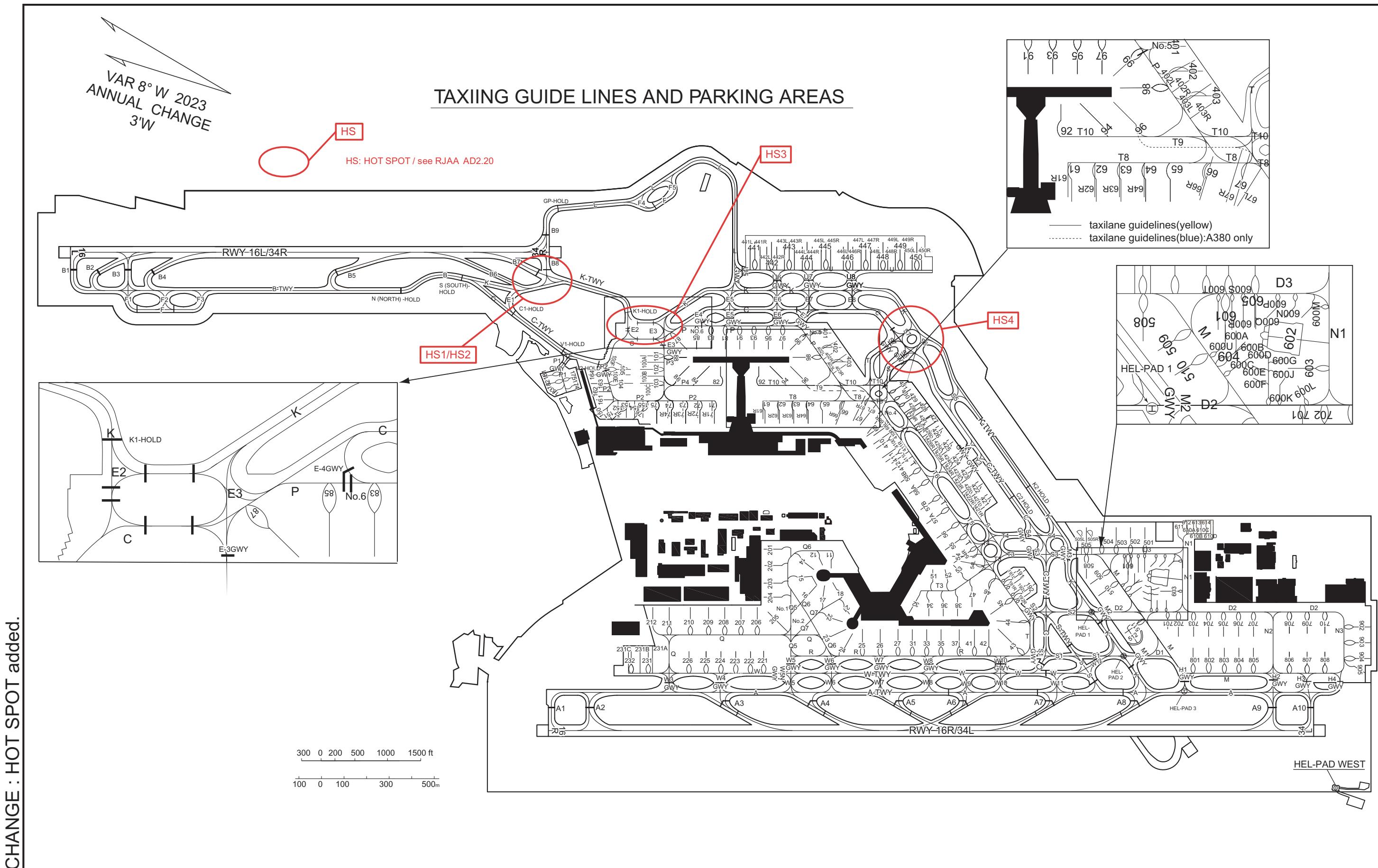
RJAA AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome Chart-1
Aerodrome Chart-2
Aerodrome Ground Movement Chart
Aerodrome Obstacle Chart-ICAO type A (RWY16R/34L)
Aerodrome Obstacle Chart-ICAO type A (RWY16L/34R)
Aerodrome Obstacle Chart-ICAO type B
Precision Approach Terrain Chart
Standard Departure Chart - Instrument (SAKURA)
Standard Departure Chart - Instrument (AKAGI)
Standard Departure Chart - Instrument (SUNNS)
Standard Departure Chart - Instrument (TETRA-RNAV)
Standard Departure Chart - Instrument (REDEK-RNAV)
Standard Departure Chart - Instrument (PIGOK-RNAV)
Standard Departure Chart - Instrument (GULBO-RNAV)
Standard Departure Chart - Instrument (BORLO-RNAV)
Standard Departure Chart - Instrument (PEDLA-RNAV)
Standard Departure Chart - Instrument (OLVAN-RNAV)
Standard Arrival Chart - Instrument (SOUTH)
Standard Arrival Chart - Instrument (NORTH)
Standard Arrival Chart - Instrument (RUTAS E/T-RNAV)
Standard Arrival Chart - Instrument (SWAMP E/T-RNAV)
Standard Arrival Chart - Instrument (SUPOK E/T-RNAV)
Standard Arrival Chart - Instrument (LUBLA E/T-RNAV)
Standard Arrival Chart - Instrument (RUTAS G/N-RNAV)
Standard Arrival Chart - Instrument (SWAMP G/N-RNAV)
Standard Arrival Chart - Instrument (SUPOK G/N-RNAV)
Standard Arrival Chart - Instrument (LUBLA G/N-RNAV)
Instrument Approach Chart (ILS RWY34L)
Instrument Approach Chart (LOC RWY34L)
Instrument Approach Chart (VOR RWY34L)
Instrument Approach Chart (ILS Z RWY34R)
Instrument Approach Chart (ILS Y or LOC RWY34R)
Instrument Approach Chart (RNP RWY34R)
Instrument Approach Chart (ILS Z RWY16R(CAT II & III))
Instrument Approach Chart (ILS Y or LOC RWY16R(CAT II & III))
Instrument Approach Chart (VOR RWY16R)
Instrument Approach Chart (ILS Z RWY16L)
Instrument Approach Chart (ILS Y or LOC Y RWY16L)
Instrument Approach Chart (ILS X or LOC X RWY16L)
Instrument Approach Chart (RNP RWY16L)
Other Chart (HOLDING PATTERN)
Other Chart (HOLDING PATTERN-RNAV)
Other Chart (Visual REP)
Other Chart (LDG CHART)
Other Chart (LDG CHART / Trees)
Other Chart (MVA CHART)



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TAXIING GUIDE LINES AND PARKING AREAS



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

8° W-FEB 2023

AERODROME OBSTRUCTION CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

NARITA INTERNATIONAL AIRPORT
RWY : 16R/34L

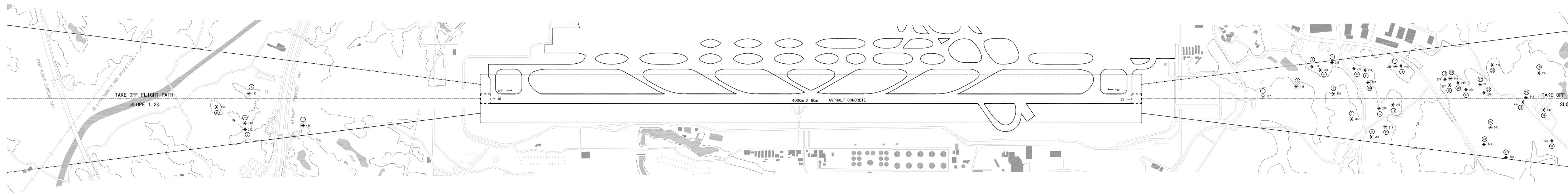
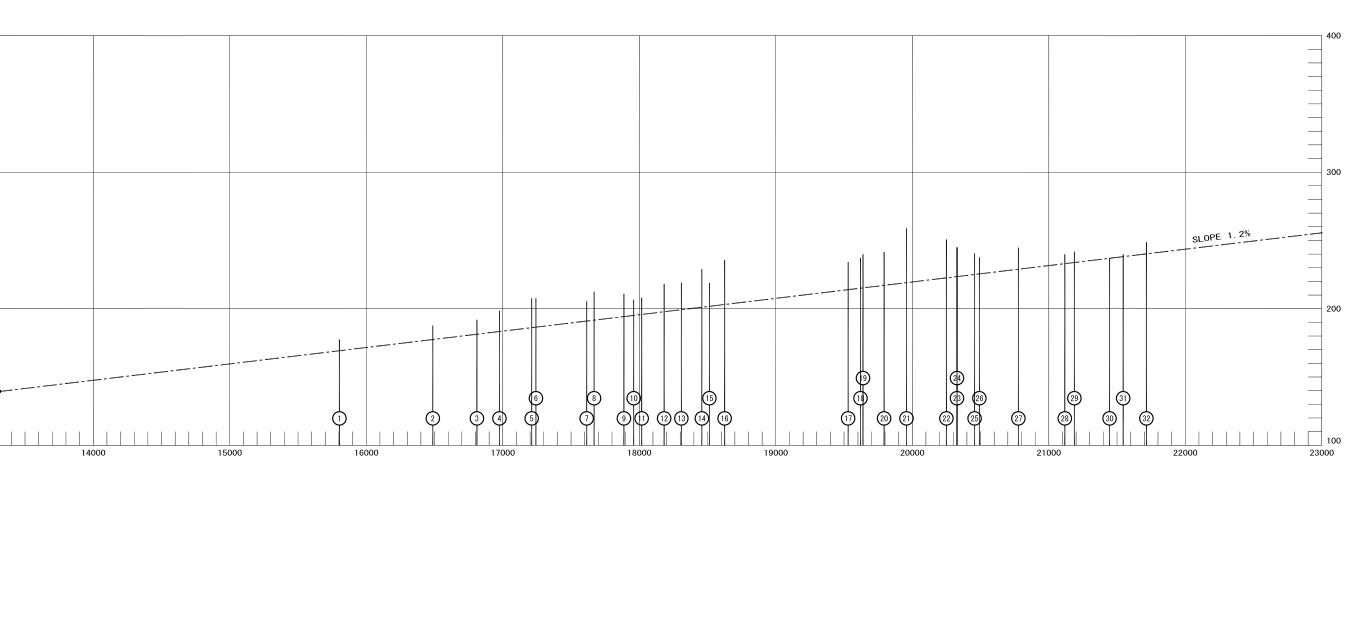
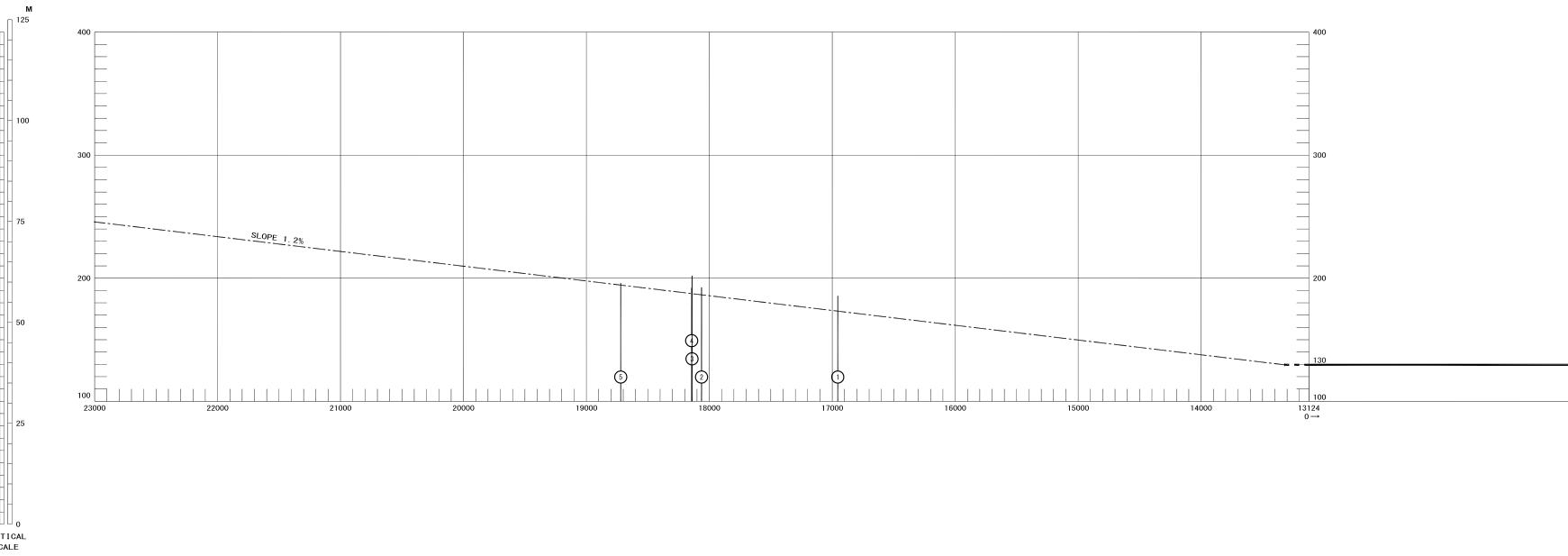
DECLARED DISTANCES

RWY 16R

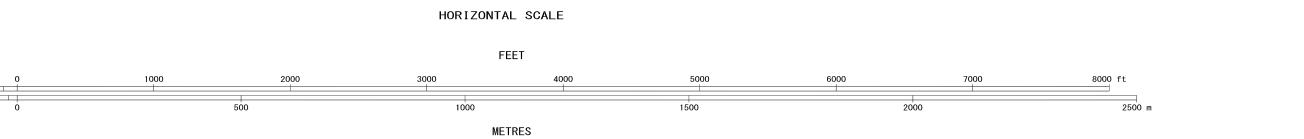
TAKE-OFF RUN AVAILABLE
4000m
ACCELERATE STOP DISTANCE AVAILABLE
4000m
LANDING DISTANCE AVAILABLE
4000m

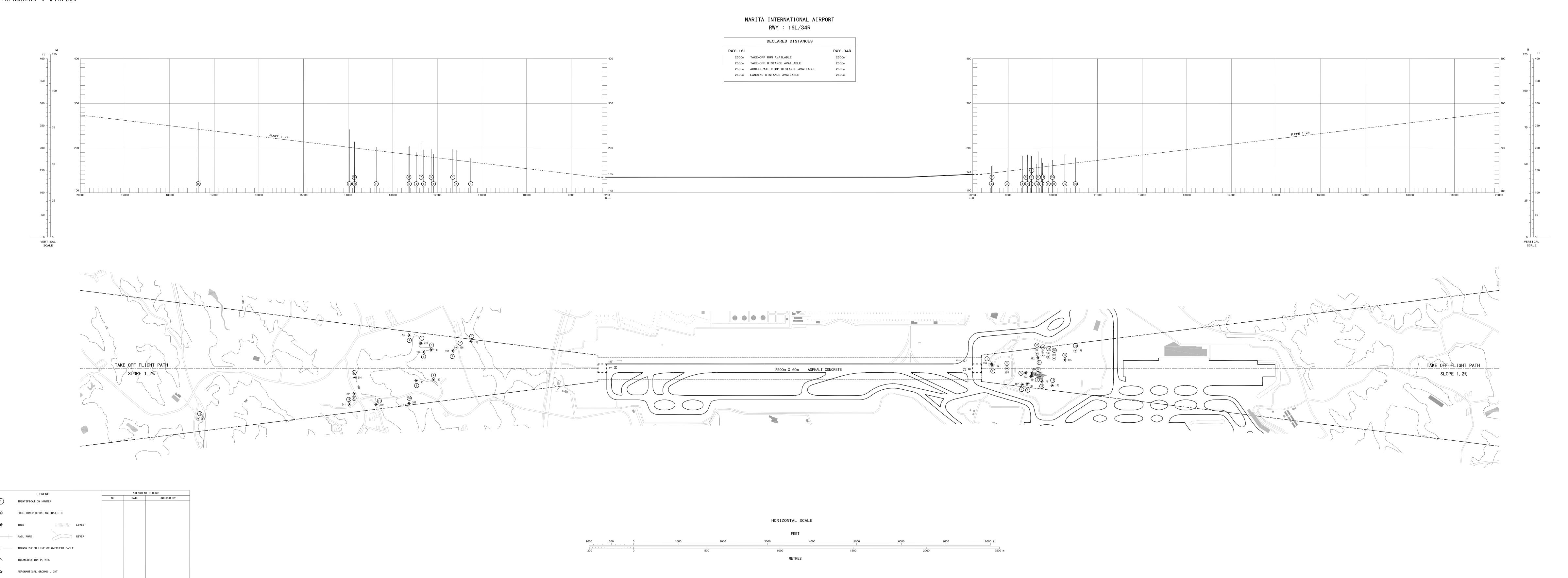
RWY 34L

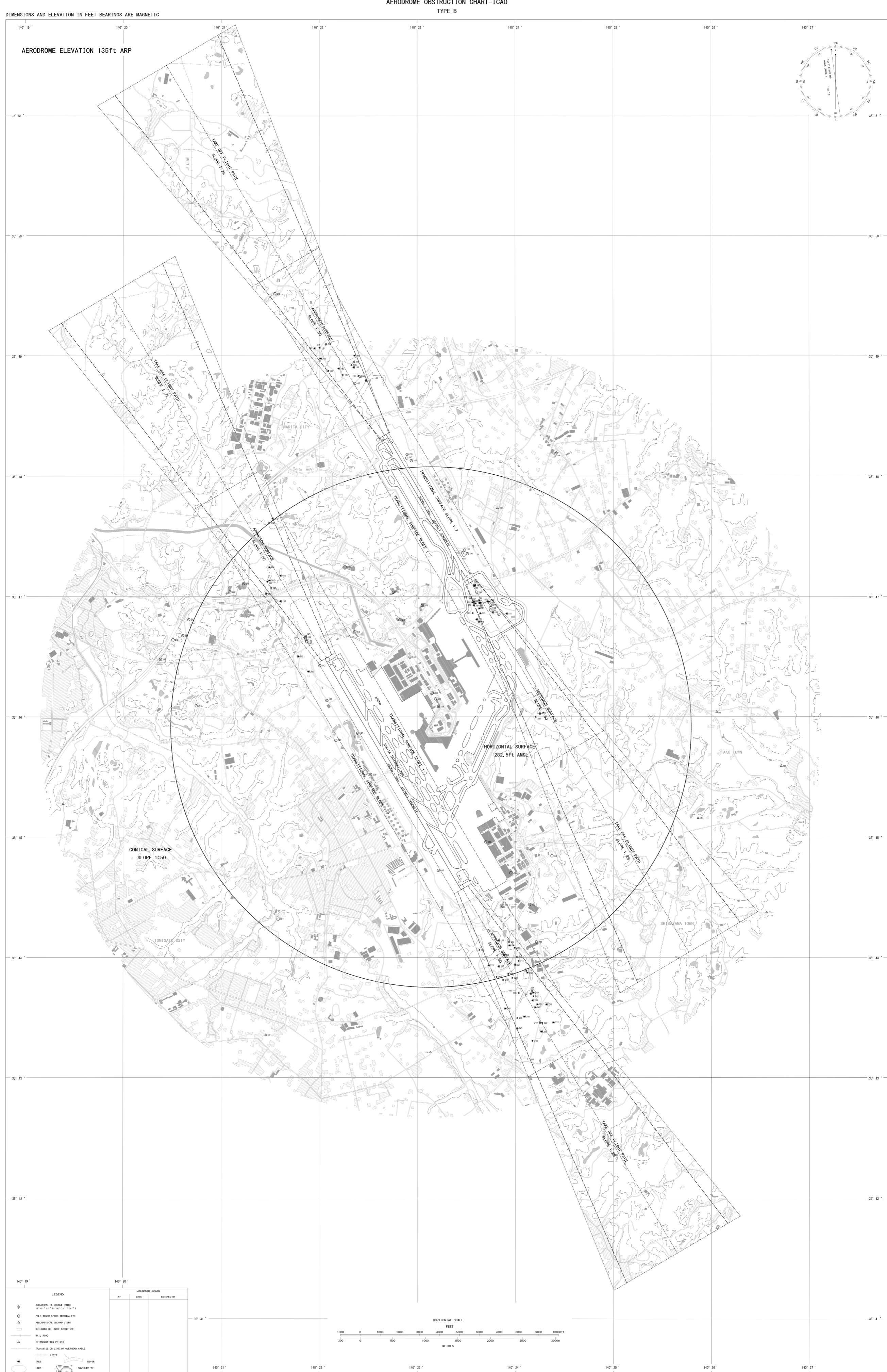
4000m
4000m
4000m
4000m



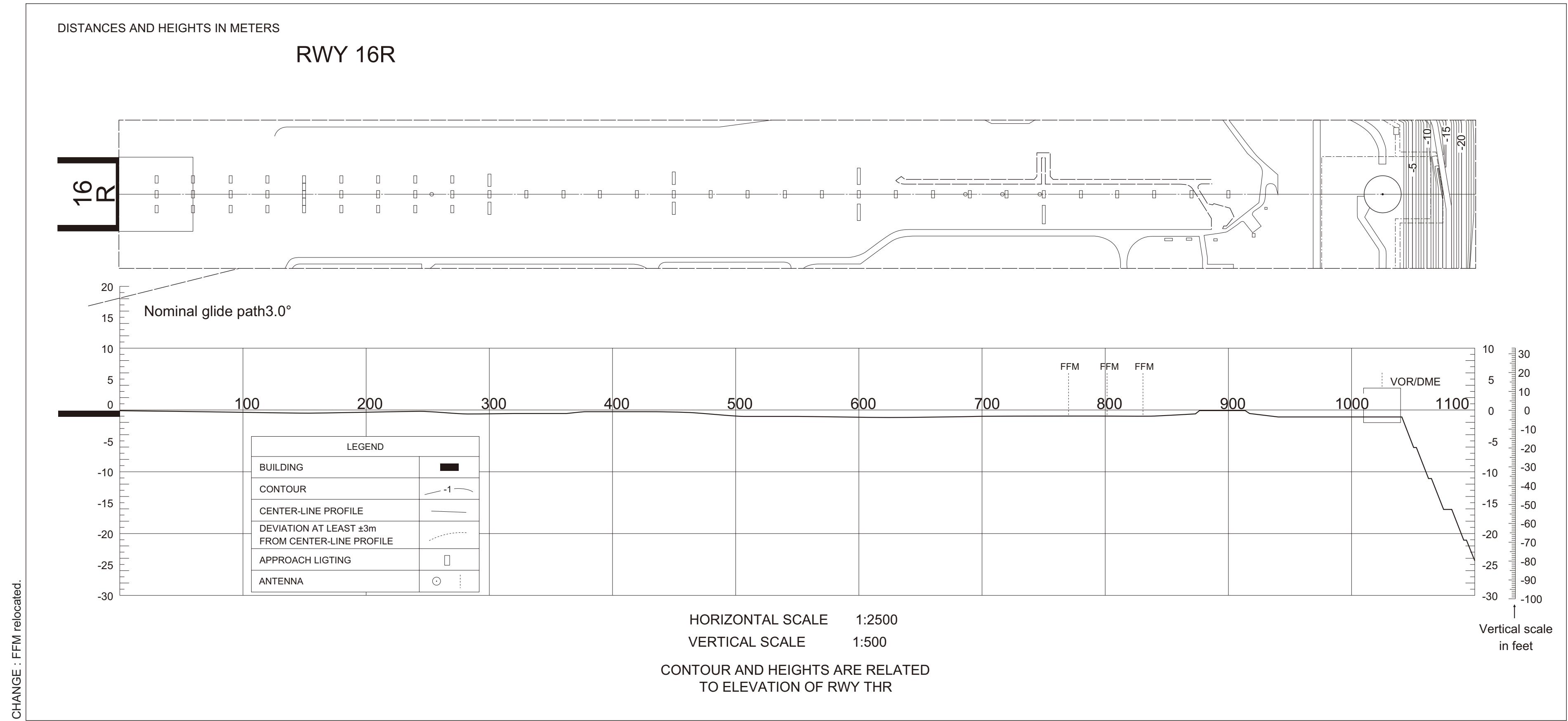
| LEGEND | | AMENDMENT RECORD | | |
|--------|-------------------------------------|------------------|------|------------|
| ① | IDENTIFICATION NUMBER | Nr | DATE | ENTERED BY |
| ○ | POLE, TOWER, SPIRE, ANTENNA, ETC | | | |
| * | TREE | | | |
| + | RAIL ROAD | | | |
| — | TRANSMISSION LINE OR OVERHEAD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



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
MAGNETIC VARIATION 8° W-FEB 2023AERODROME OBSTRUCTION CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



CHANGE : FFM relocated.



STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

SID

SAKURA FIVE DEPARTURE

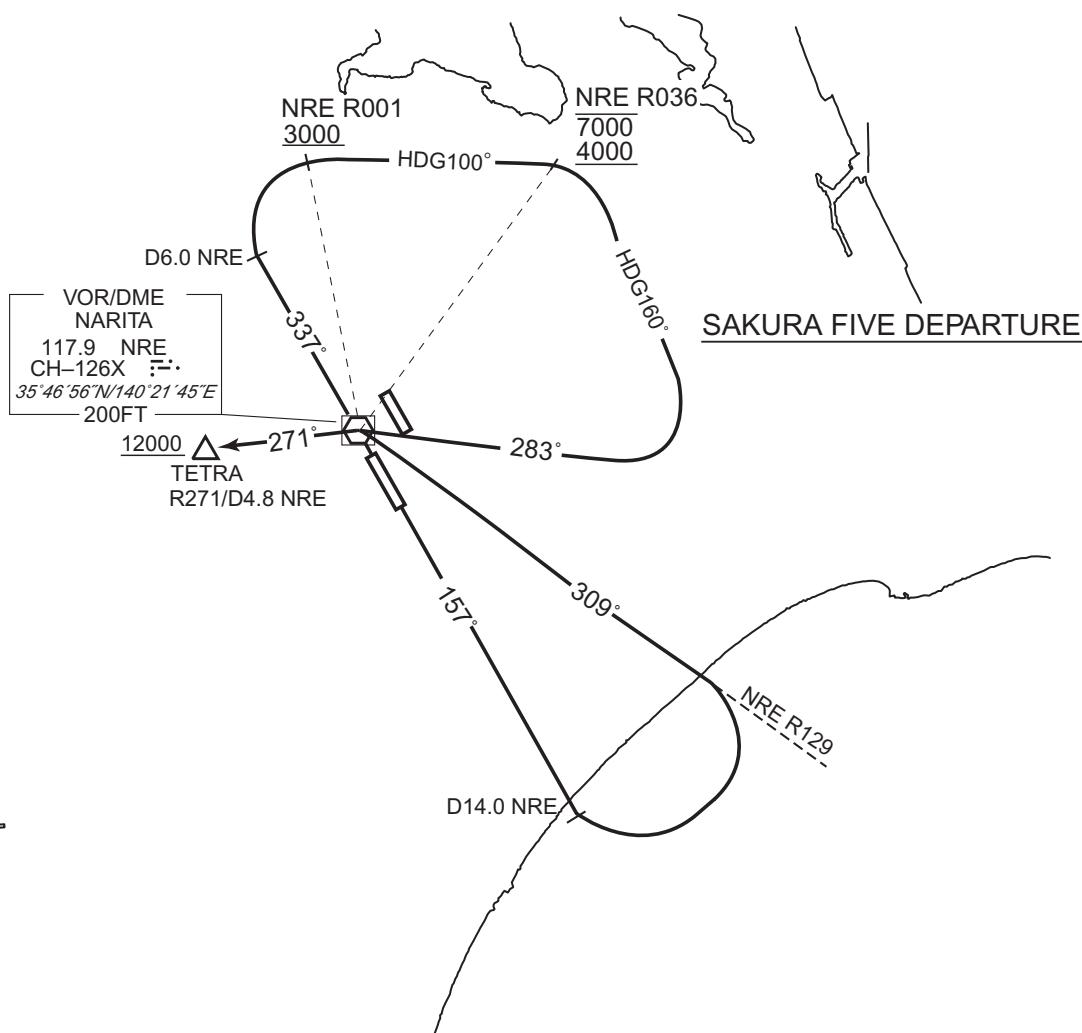
RWY 16R : Climb via NRE R157 to 14.0DME, turn left to intercept and proceed via NRE R129 to NRE VOR/DME, via NRE R271 to TETRA.
Cross TETRA at or above 12000FT.

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

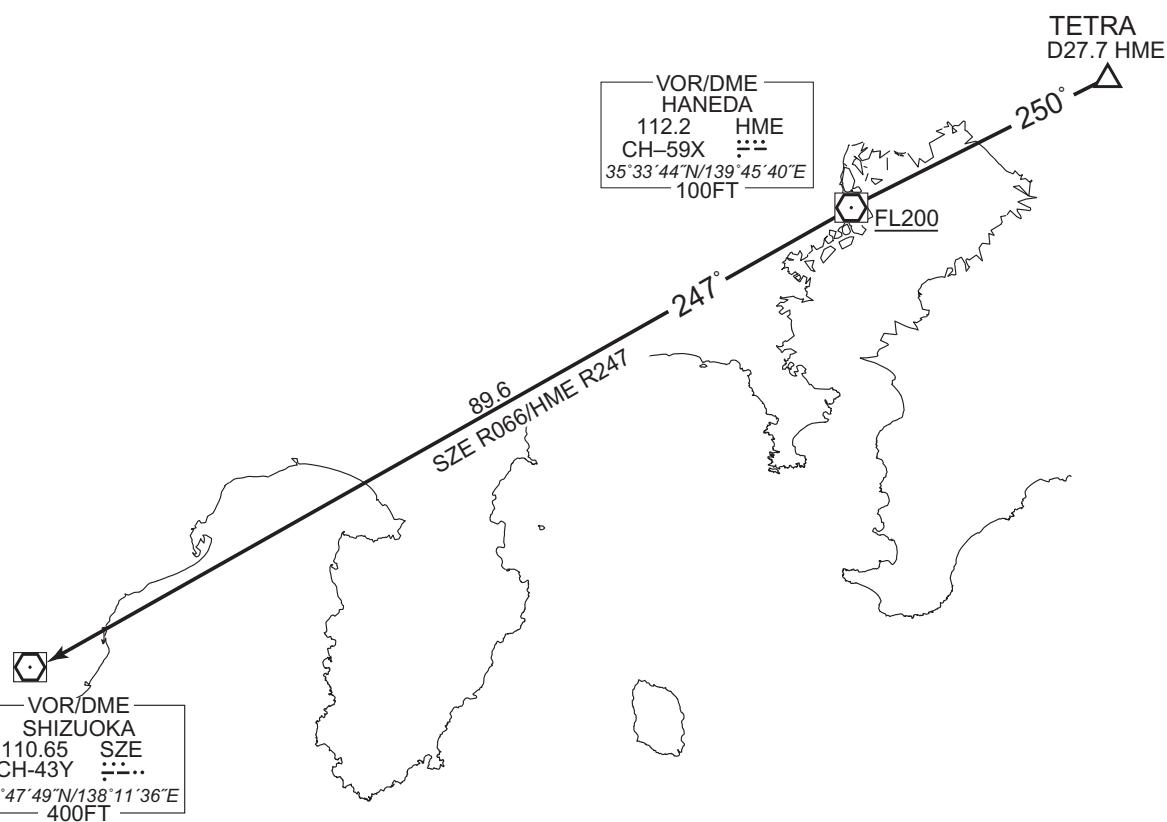
RJAA / NARITA INTL

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.



CHANGE : Course FM SZE to HME.

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)

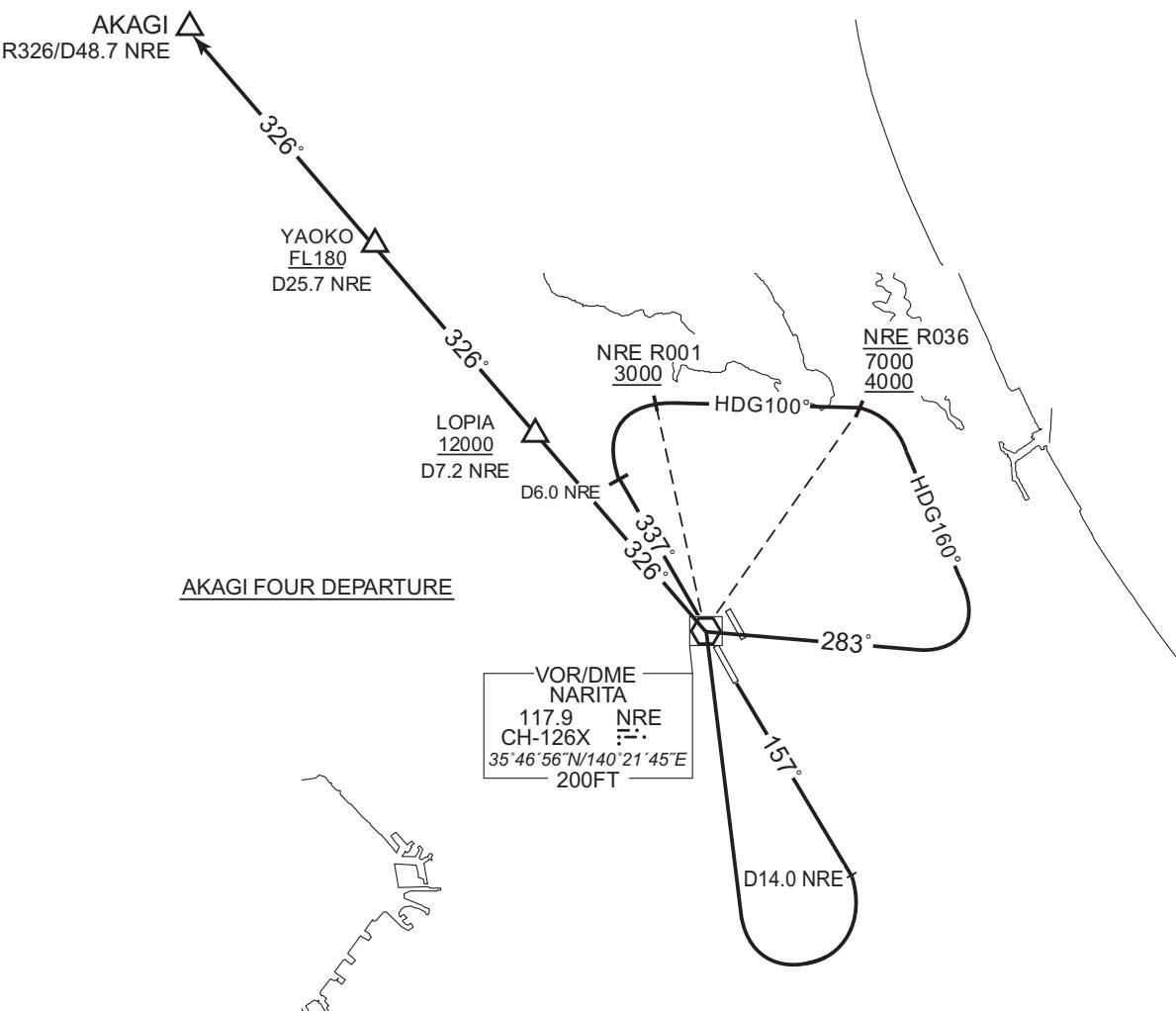
RWY34L : Climb via NRE R337 to 6.0DME, turn right HDG100° until crossing NRE R036, turn right HDG160° to intercept and proceed via NRE R103 to NRE VOR/DME, via NRE R326 to AKAGI via LOPIA and YAOKO.

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

TETRA EIGHT 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

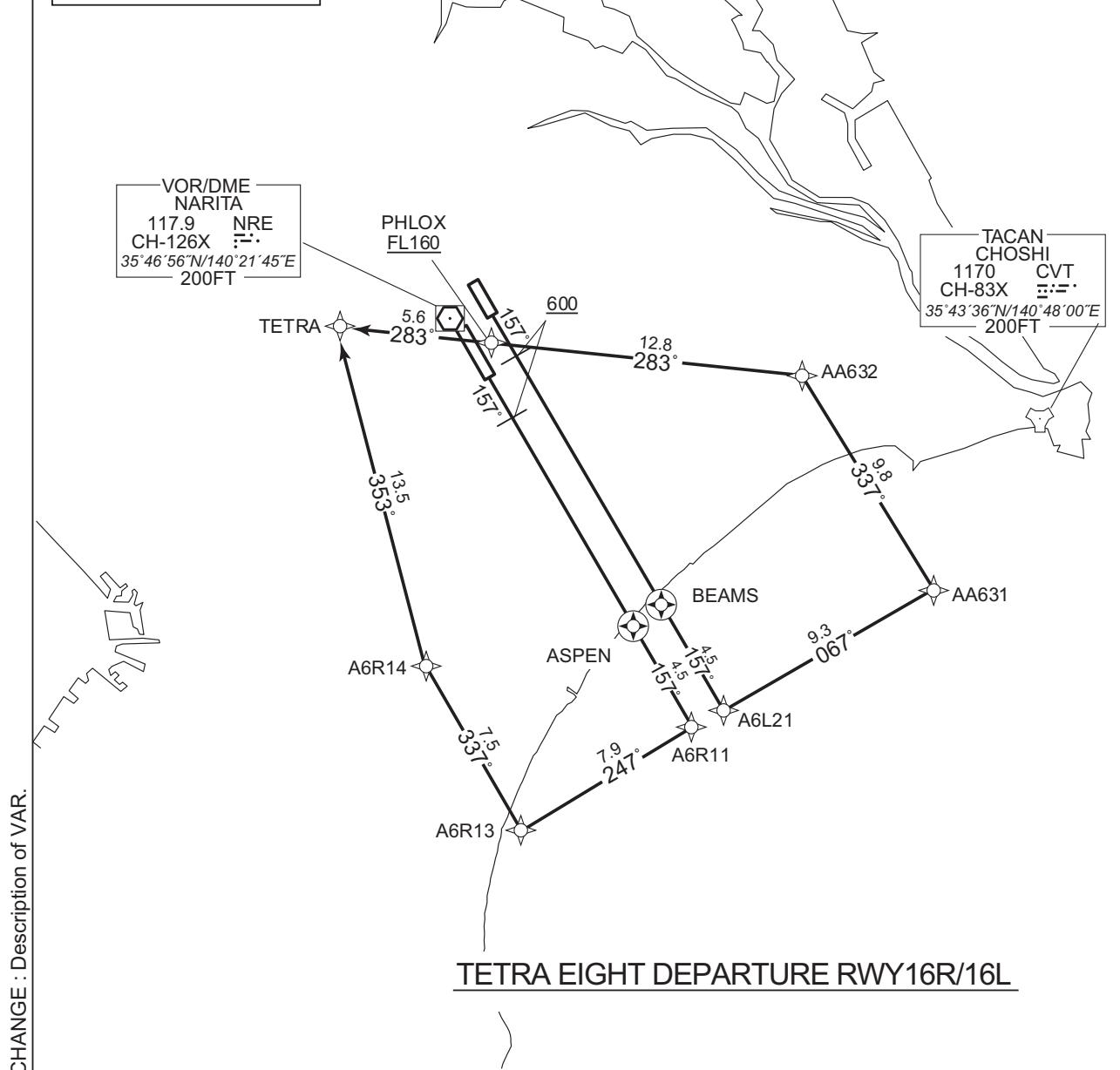
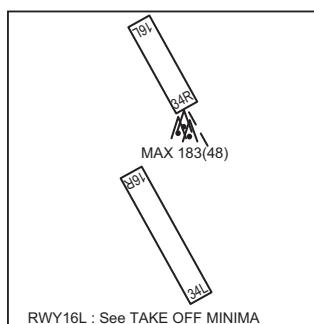
DME GAP

RWY34L : DER - 1.3NM FM DER

Inappropriate Navaids

See AD1.1.6.10.3. Inappropriate NAV AIDS for RNAV1

VAR 8° W

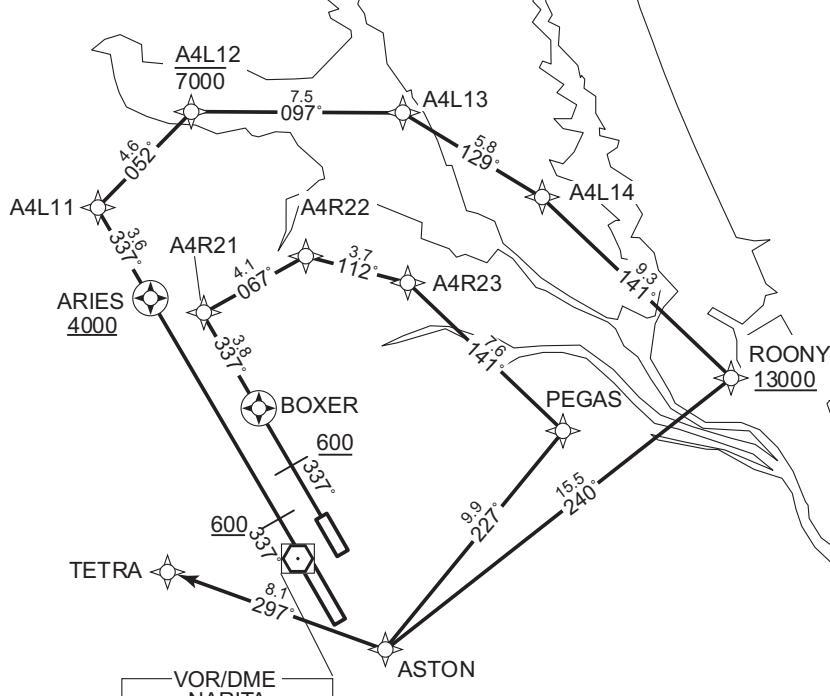


STANDARD DEPARTURE CHART -INSTRUMENT

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

-

2) RADAR service required.

DME GAP

-

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 |

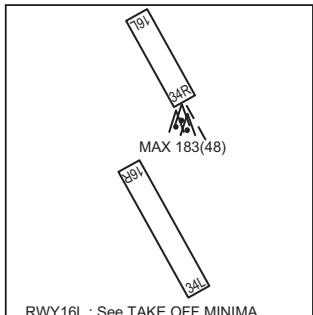
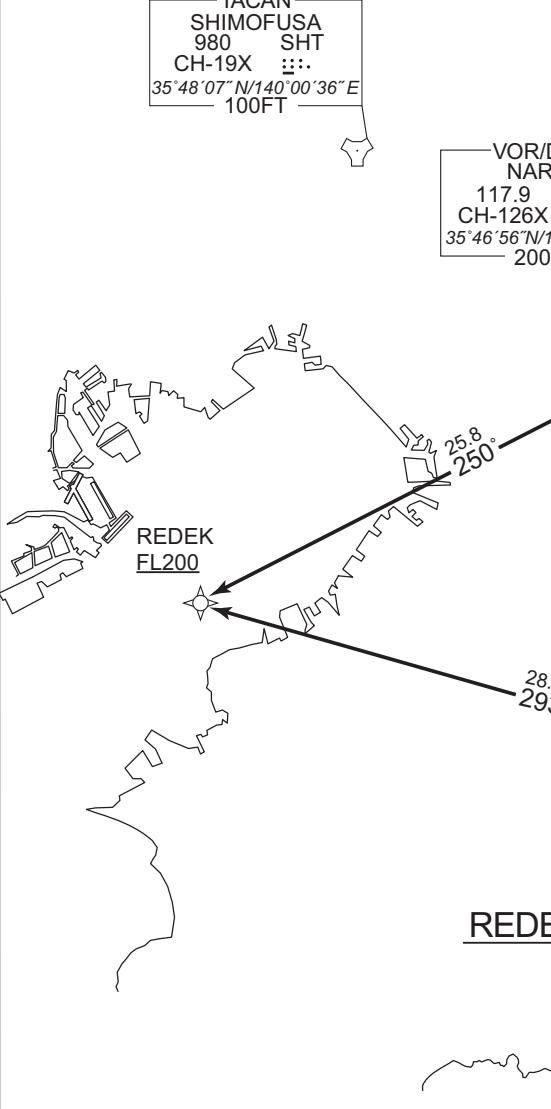
Waypoint Coordinates

| 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

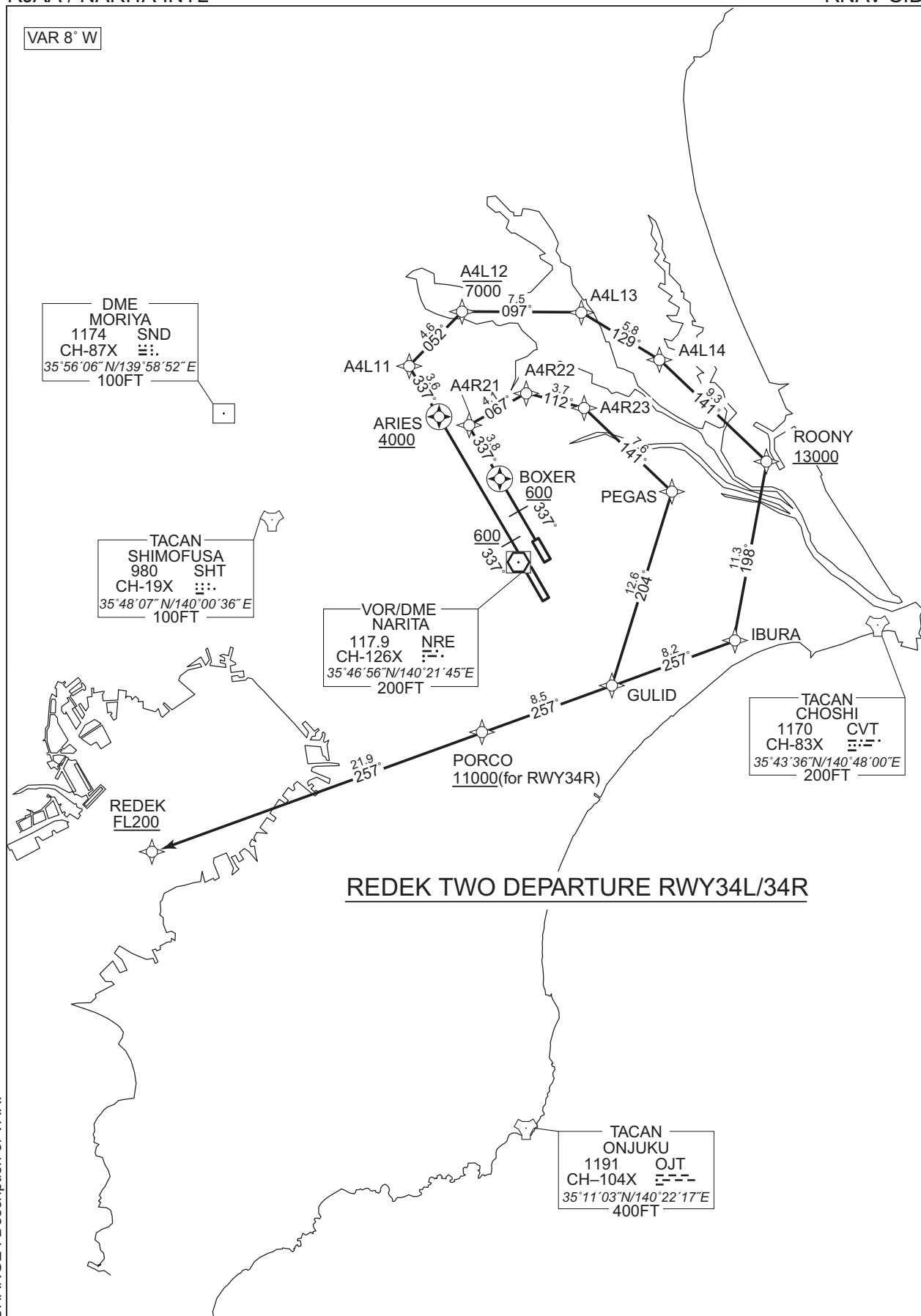
| REDEK TWO DEPARTURE | | RNAV1 |
|---|-----------------------|---|
| Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required. | Critical DME | RWY16R:TLD 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 |
| VAR 8° W  RWY16L : See TAKE OFF MINIMA | | |
|  <p>REDEK FL200</p> <p>VOR/DME NARITA 117.9 NRE CH-126X 200FT 35°46'56"N/140°21'45"E</p> <p>TACAN SHIMOFUSA 980 SHT CH-19X 100FT 35°48'07"N/140°00'36"E</p> <p>ACURE</p> <p>BEAMS</p> <p>ASPEN</p> <p>AA632</p> <p>AA631</p> <p>A6L21</p> <p>A6R12</p> <p>KUJYU 11000</p> <p>REDEK TWO DEPARTURE RWY16R/16L</p> <p>TACAN ONJUKU 1191 OJT CH-104X 400FT 35°11'03"N/140°22'17"E</p> | | |

CHANGE : Description of VAR.

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

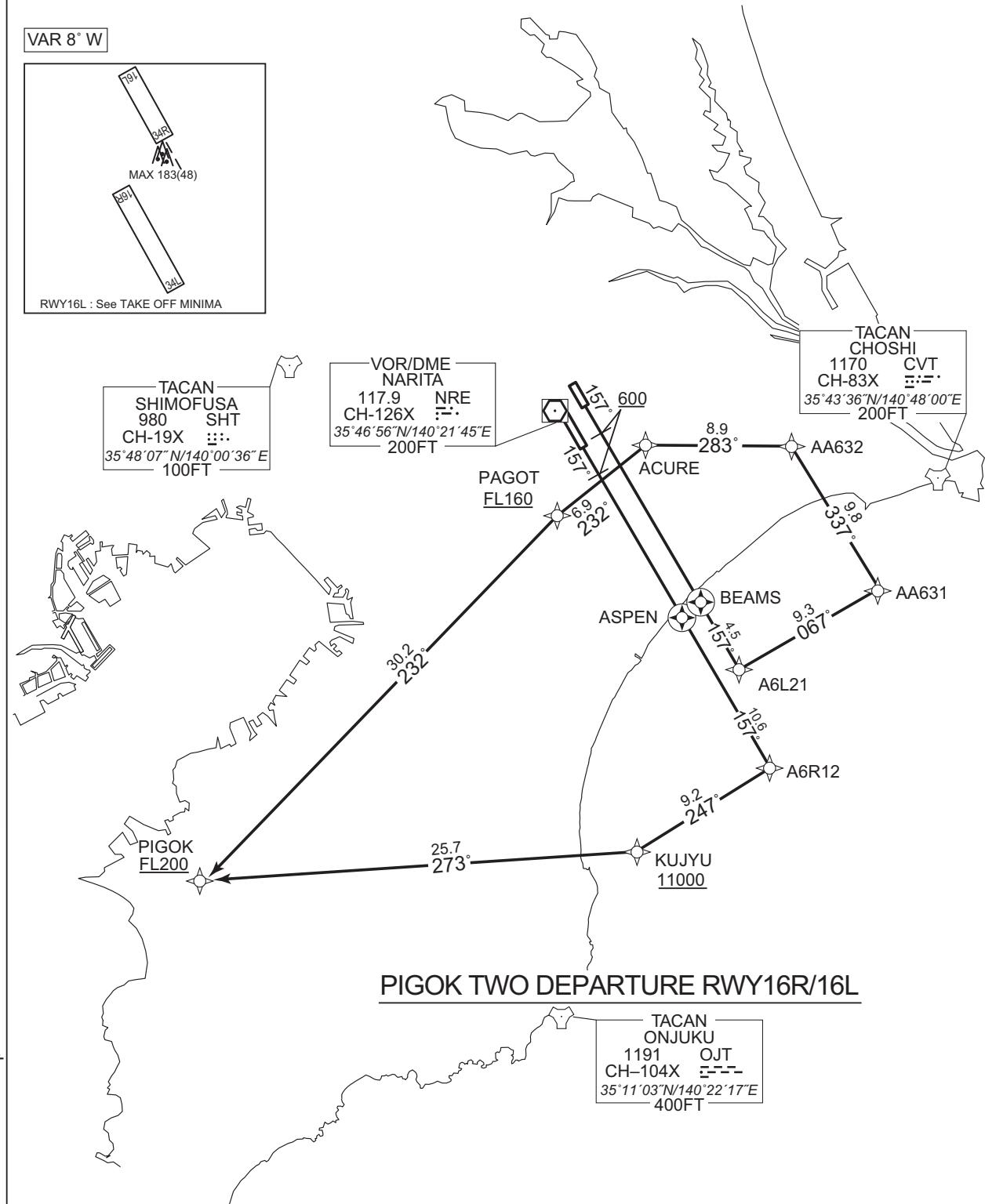
| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| A4L11 | 355915.6N / 1401249.1E | ARIES | 355607.4N / 1401505.9E |
| A4L12 | 360232.6N / 1401646.8E | ASPEN | 353451.0N / 1403028.1E |
| 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 |
|--|-----------------------|--|
| 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 |



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

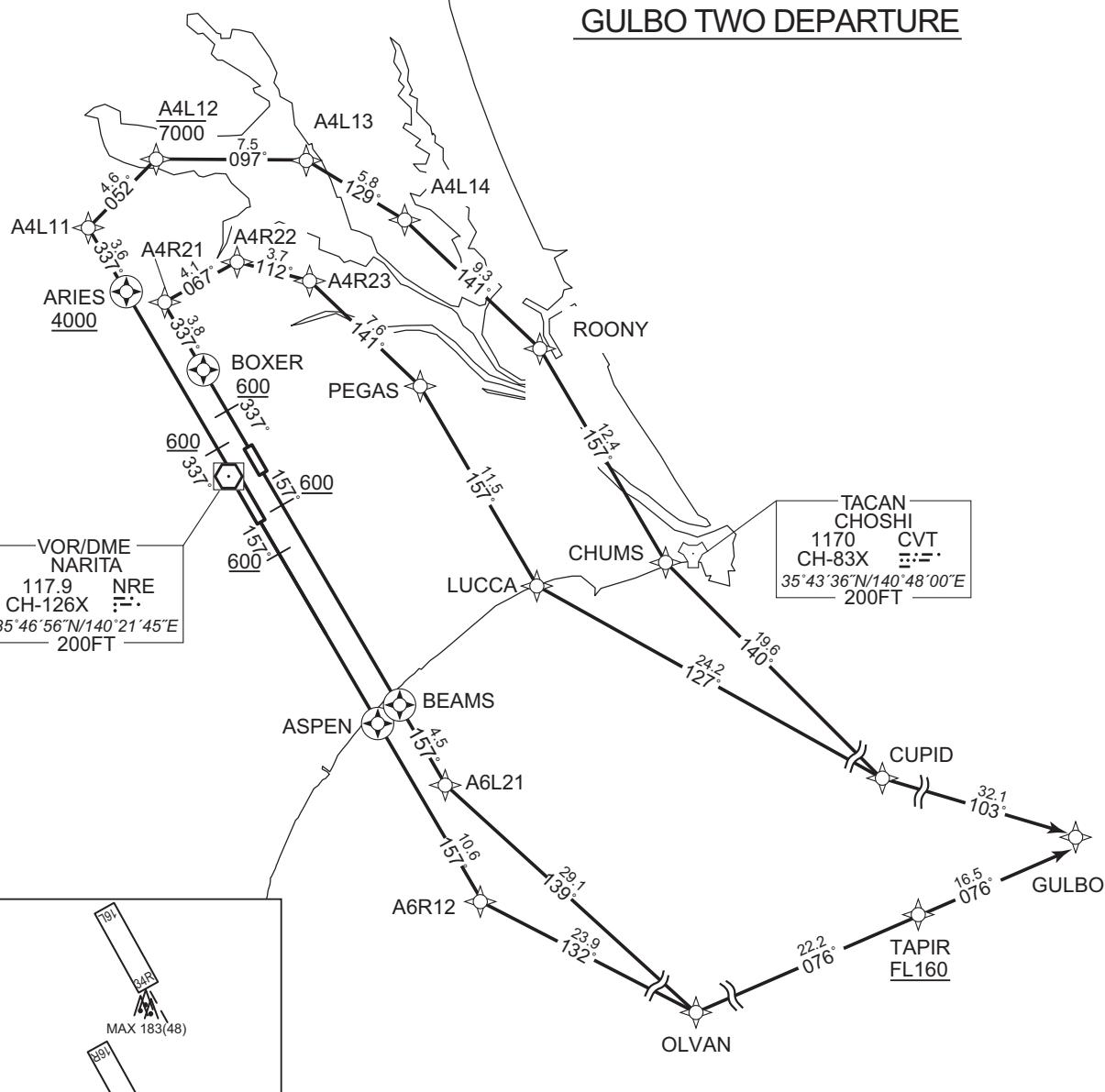
STANDARD DEPARTURE CHART -INSTRUMENT

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

CHANGE : Description of VAR.

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 |

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 | 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

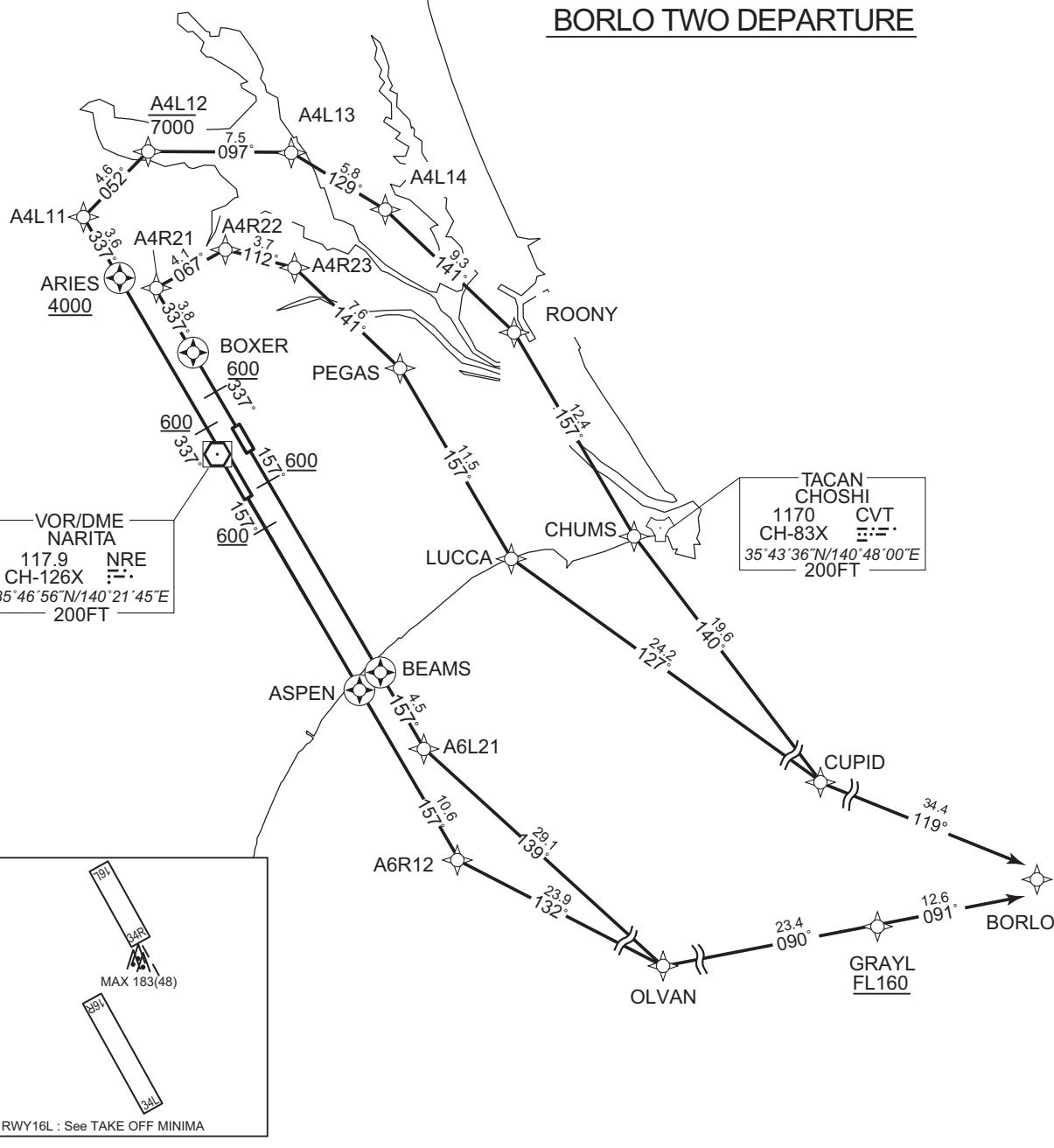
RJAA / NARITA INTL

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



CHANGE : Description of VAR.

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



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 |

CHANGE : New PROC

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

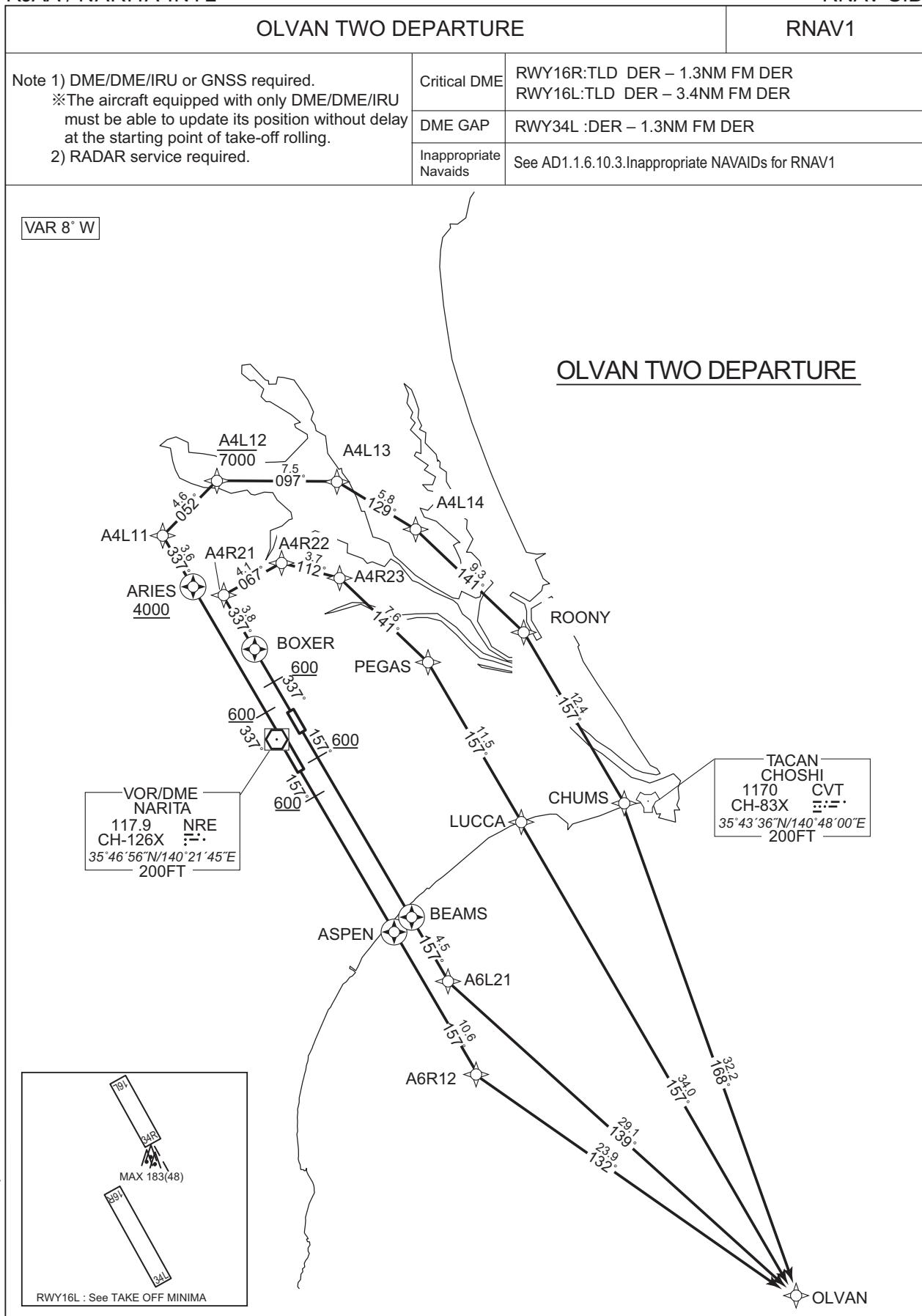
| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AA433 | 354438.5N / 1401700.8E | BEAMS | 353533.0N / 1403153.1E |
| A6L21 | 353137.9N / 1403441.9E | BOXER | 355213.0N / 1401951.6E |
| 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 |

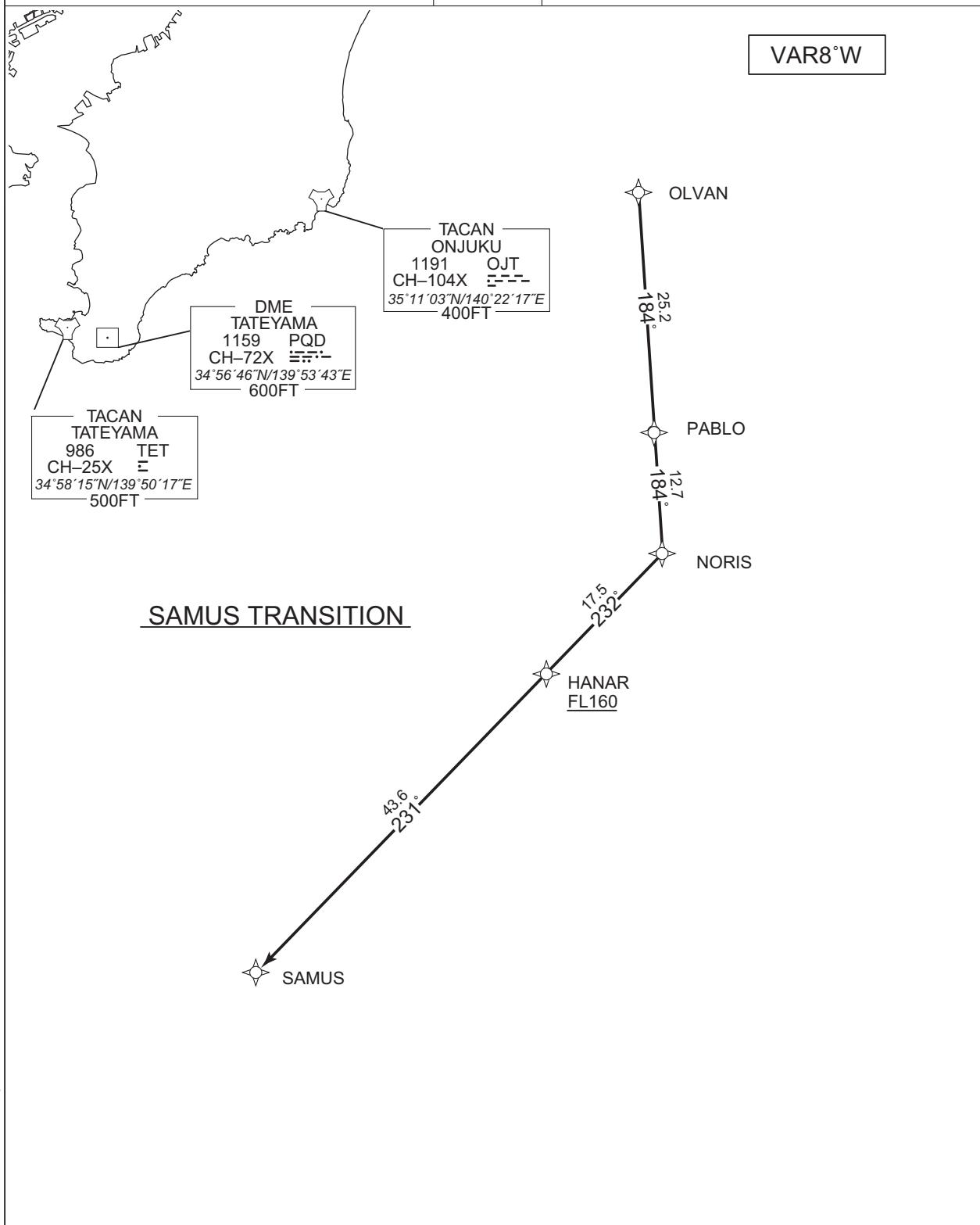
CHANGE : ALT Restriction on A4R23

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.

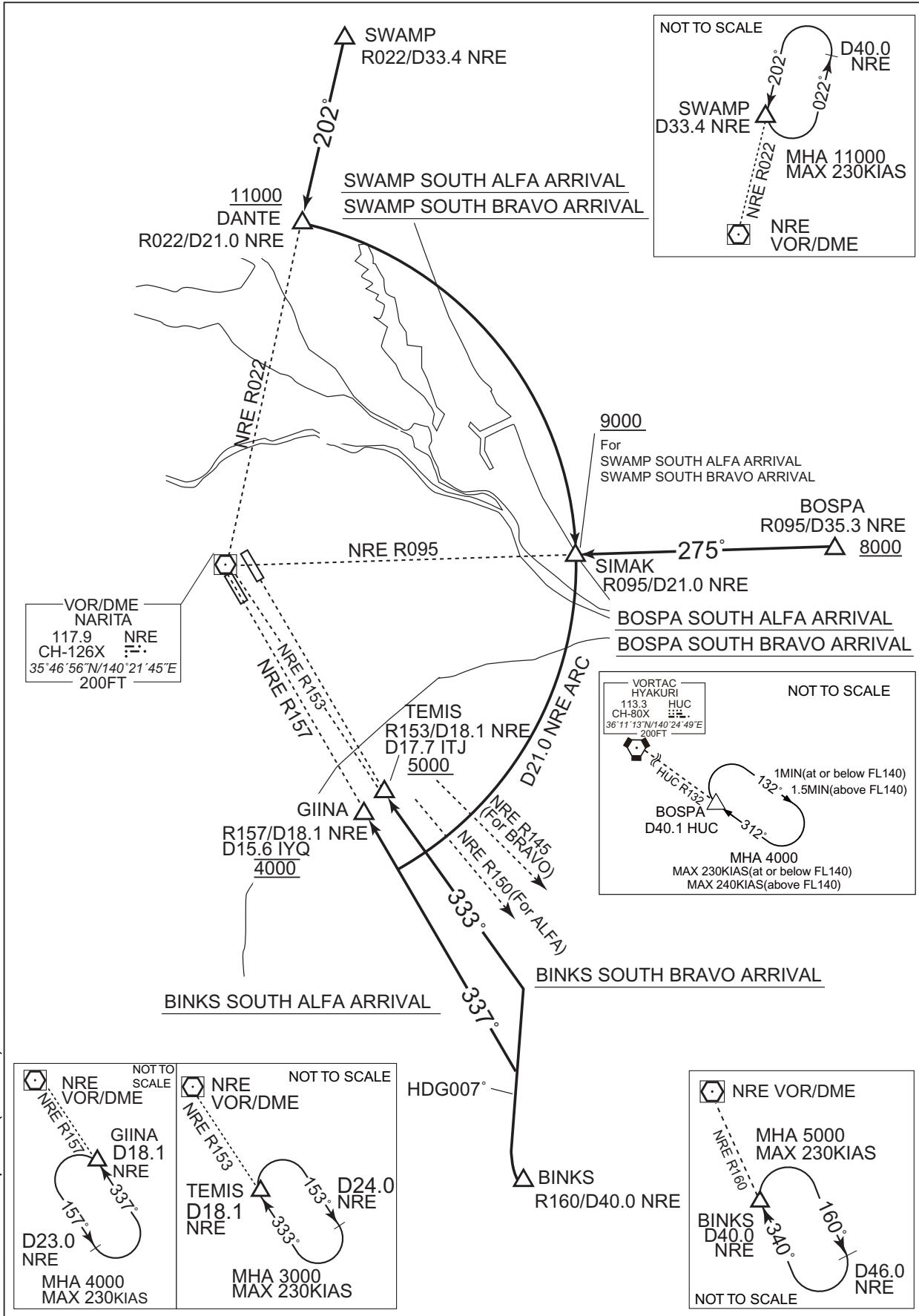
Cross DANTE at or above 11000FT, cross SIMAK at or above 9000FT, cross TEMIS at or above 5000FT.

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.

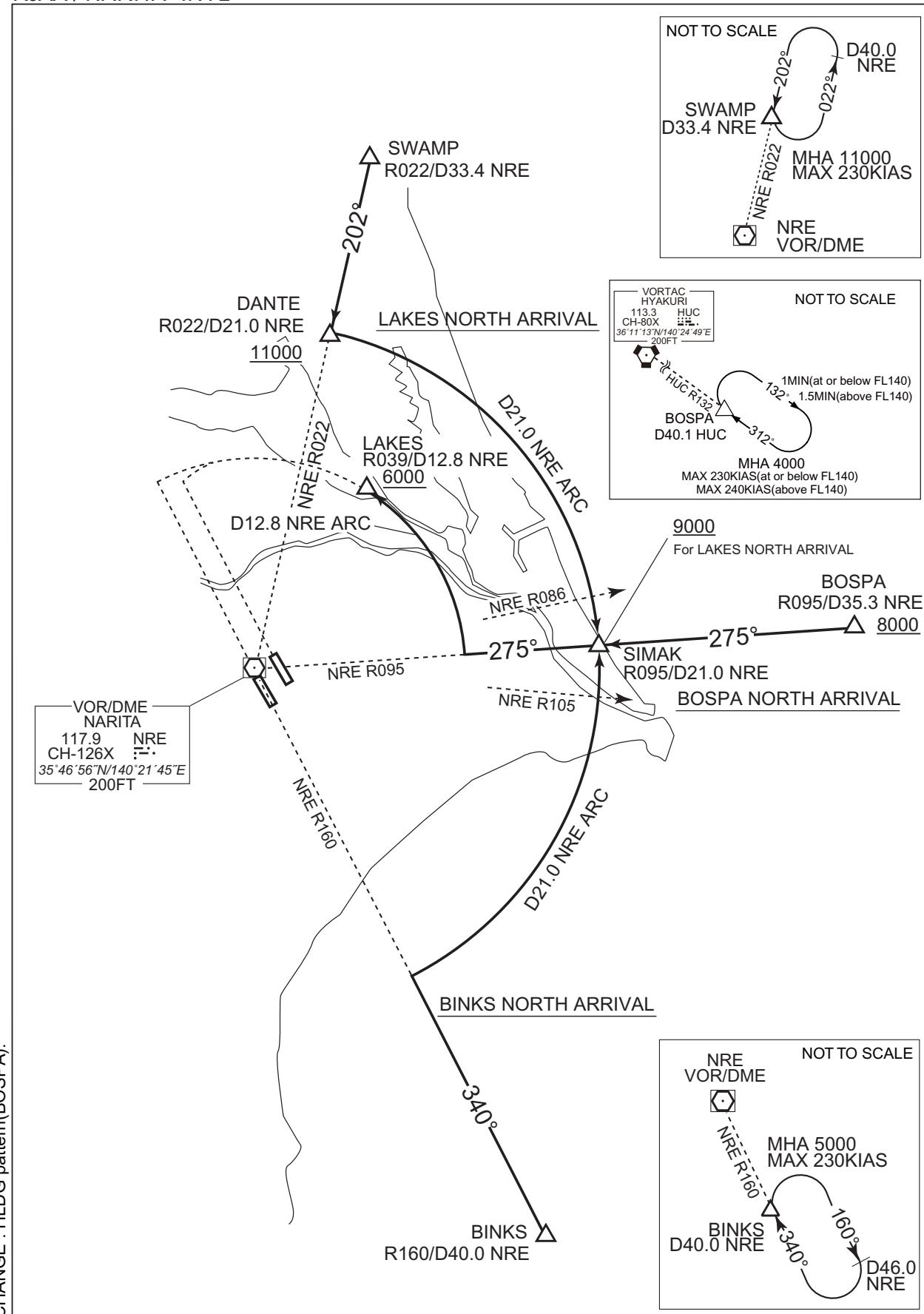
Cross DANTE at or above 11000FT, cross SIMAK at or above 9000FT, cross LAKES at or above 6000FT.

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

RUTAS E ARRIVAL
RUTAS T ARRIVAL

RNAV STAR RWY34L/34R

RNAV 1

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

VAR 8° W

VOR/DME
NARITA
117.9 NRE
CH-126X
35°46'56"N/140°21'45"E
200FT

MHA 3000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
TYLER
1MIN(at or below FL140)
1.5MIN(above FL140)

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

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

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

RUTAS E ARRIVAL

TACAN
CHOSHI
1170 CVT
CH-83X
35°43'36"N/140°48'00"E
200FT

MHA 3000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
ELGAR
043° 223°
1MIN(at or below FL140)
1.5MIN(above FL140)

CORGI 12.8 280° TORCH
YUMIL 11000 220KIAS
AA453 17.3 356°
AA452 18.1 018°
PEAKS 6000
TYLER 16.2 253°
ELGAR 22.6 071°

RUTAS T ARRIVAL

VENUS
11000
220KIAS

MHA 4000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
CORGI
043° 223°
1MIN(at or below FL140)
1.5MIN(above FL140)

JARED 1.2 060° AA451 2.1 037°
AQUOS 23.1 065°
VENUS 24.0 245°
RUTAS 21.0 013°
JITAN 22.2 071°

CHANGE: Description of HLDG pattern.

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 | CORGİ | - | 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 | CORGİ | 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 |
| CORGİ | 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

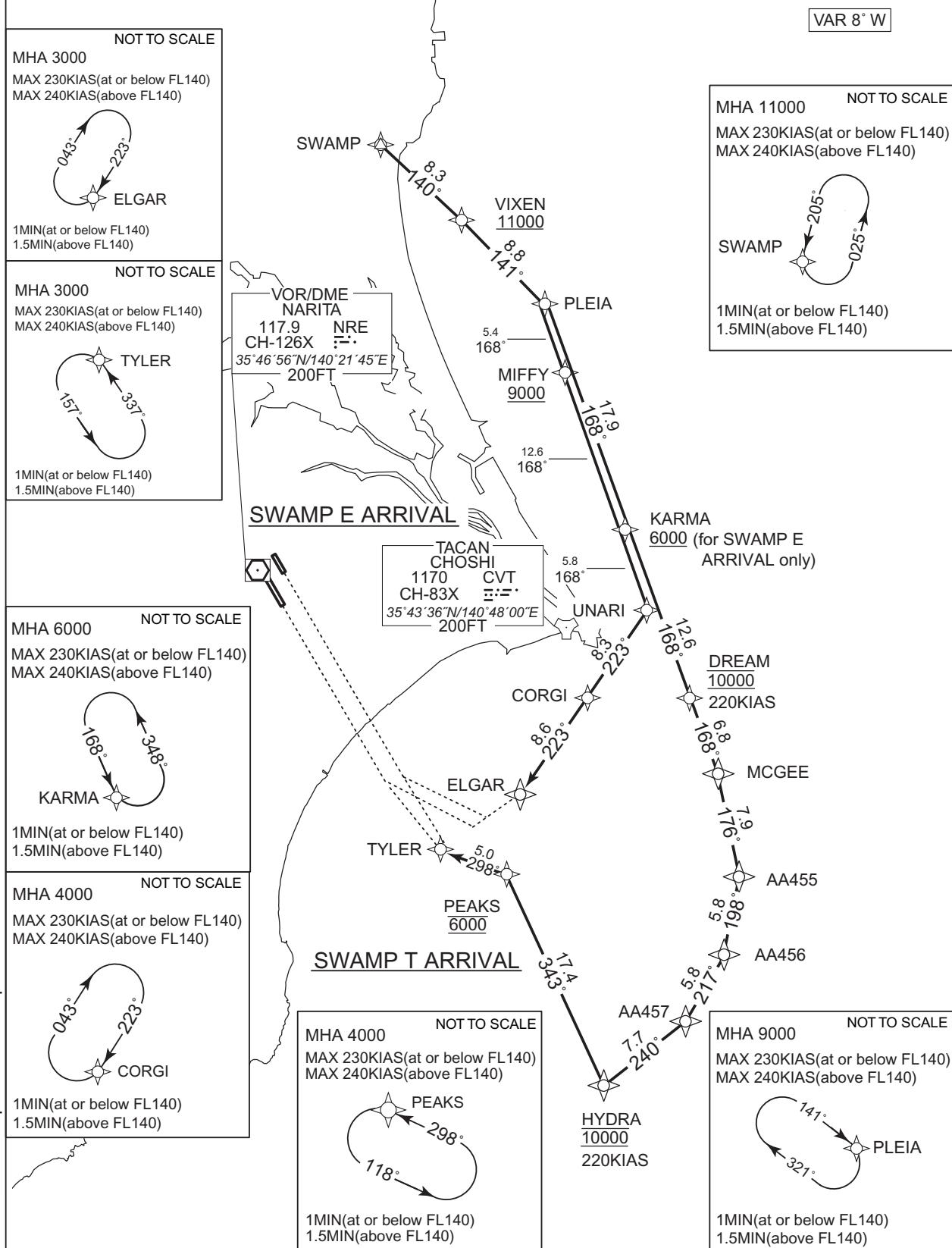
RJAA / NARITA INTL

RNAV STAR RWY34L/34R

SWAMP E ARRIVAL
SWAMP T ARRIVAL

RNAV 1

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



CHANGE: Description of HLDG pattern.

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

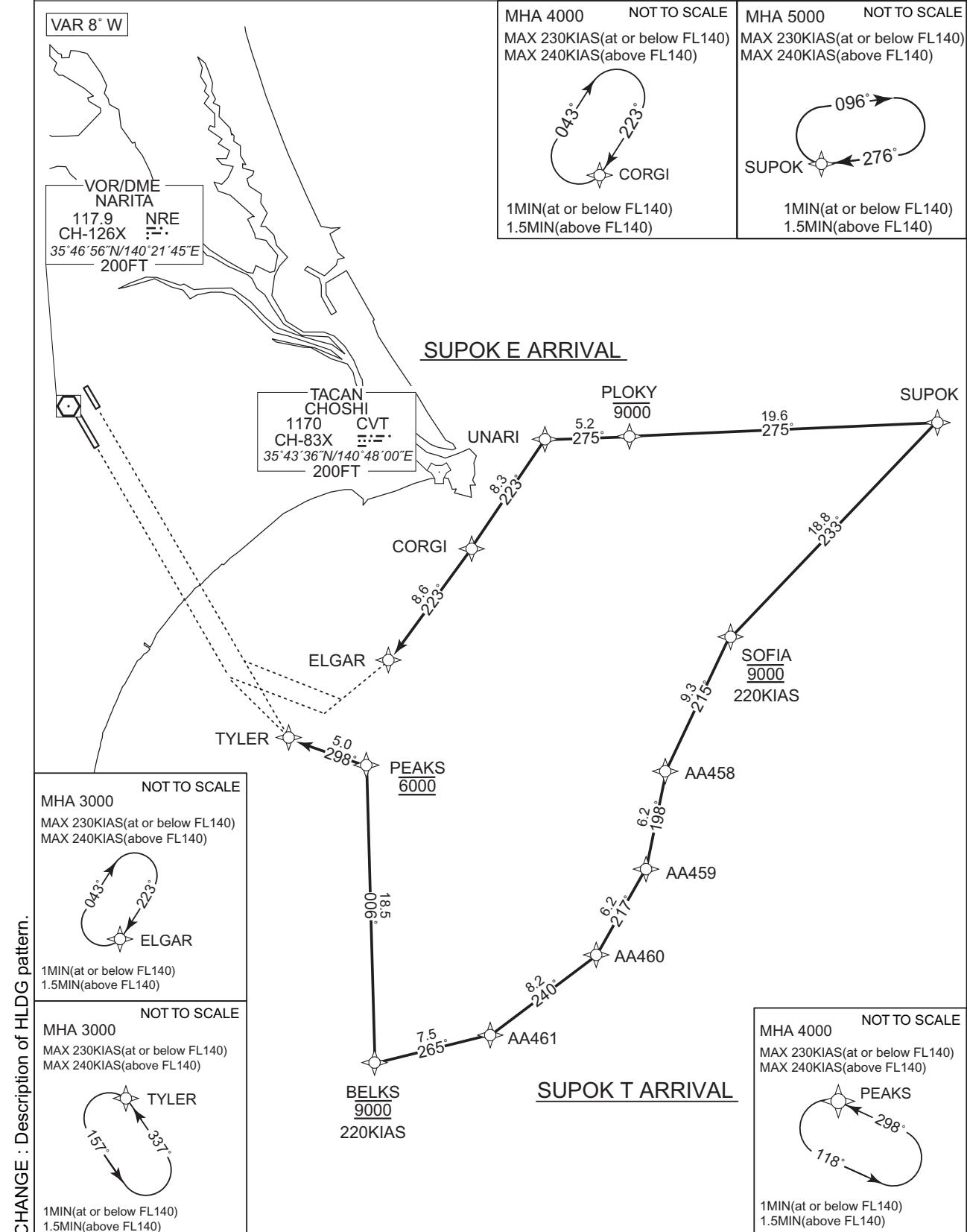
RJAA / NARITA INTL

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 |

CHANGE : HLDG Pattern (PEAKS) established

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 | | |

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

RNAV STAR RWY34L/34R

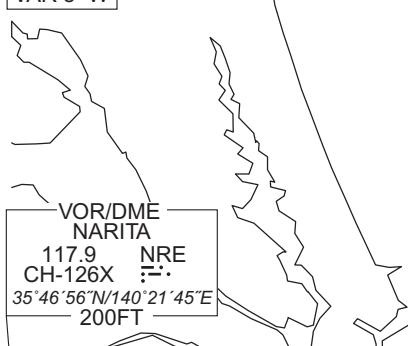
LUBLA E ARRIVAL
LUBLA T ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W



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

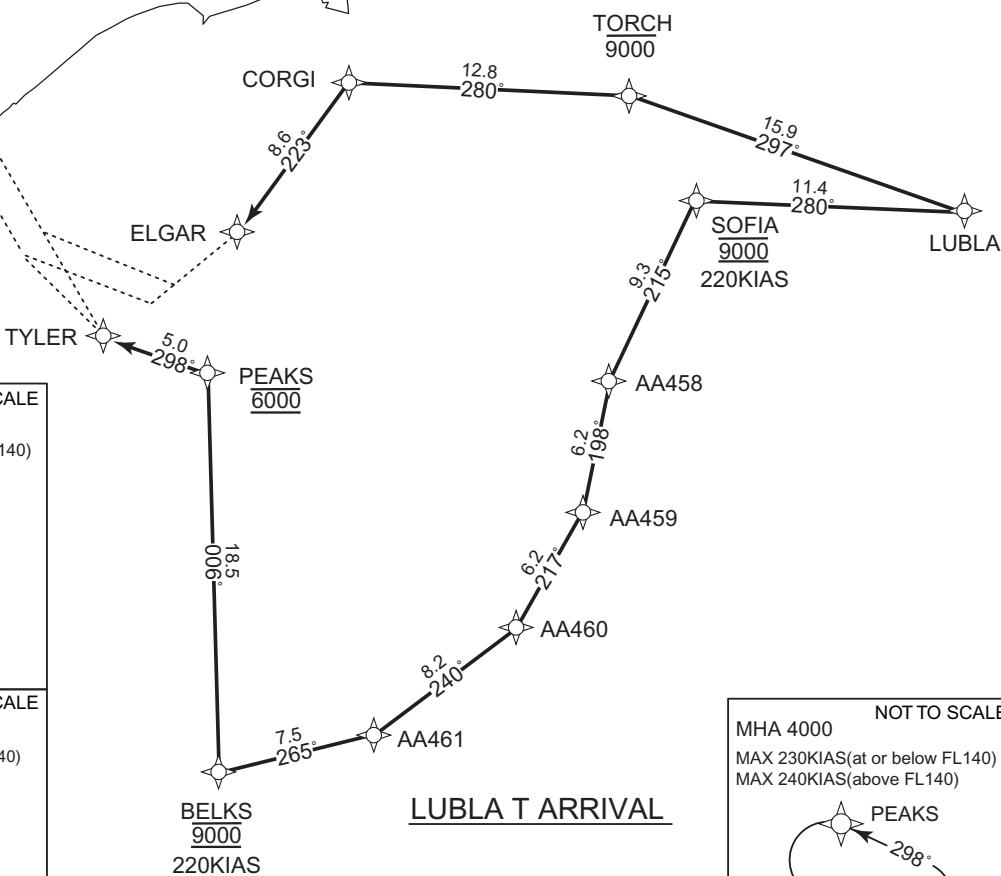
1MIN(at or below FL140)
1.5MIN(above FL140)

MHA 5000 NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)

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

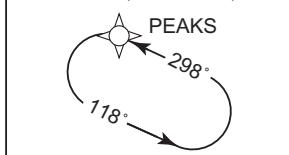
LUBLA E ARRIVAL

TACAN
CHOSHI
1170
CH-83X
35°43'36"N/140°48'00"E
200FT



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

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



CHANGE : Description of HLDG pattern.

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 |

CHANGE : New PROC

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 |
| CORG | 353829.8N / 1405138.9E | TYLER | 352650.5N / 1403807.8E |

STANDARD ARRIVAL CHART - INSTRUMENT

RJAA / NARITA INTL

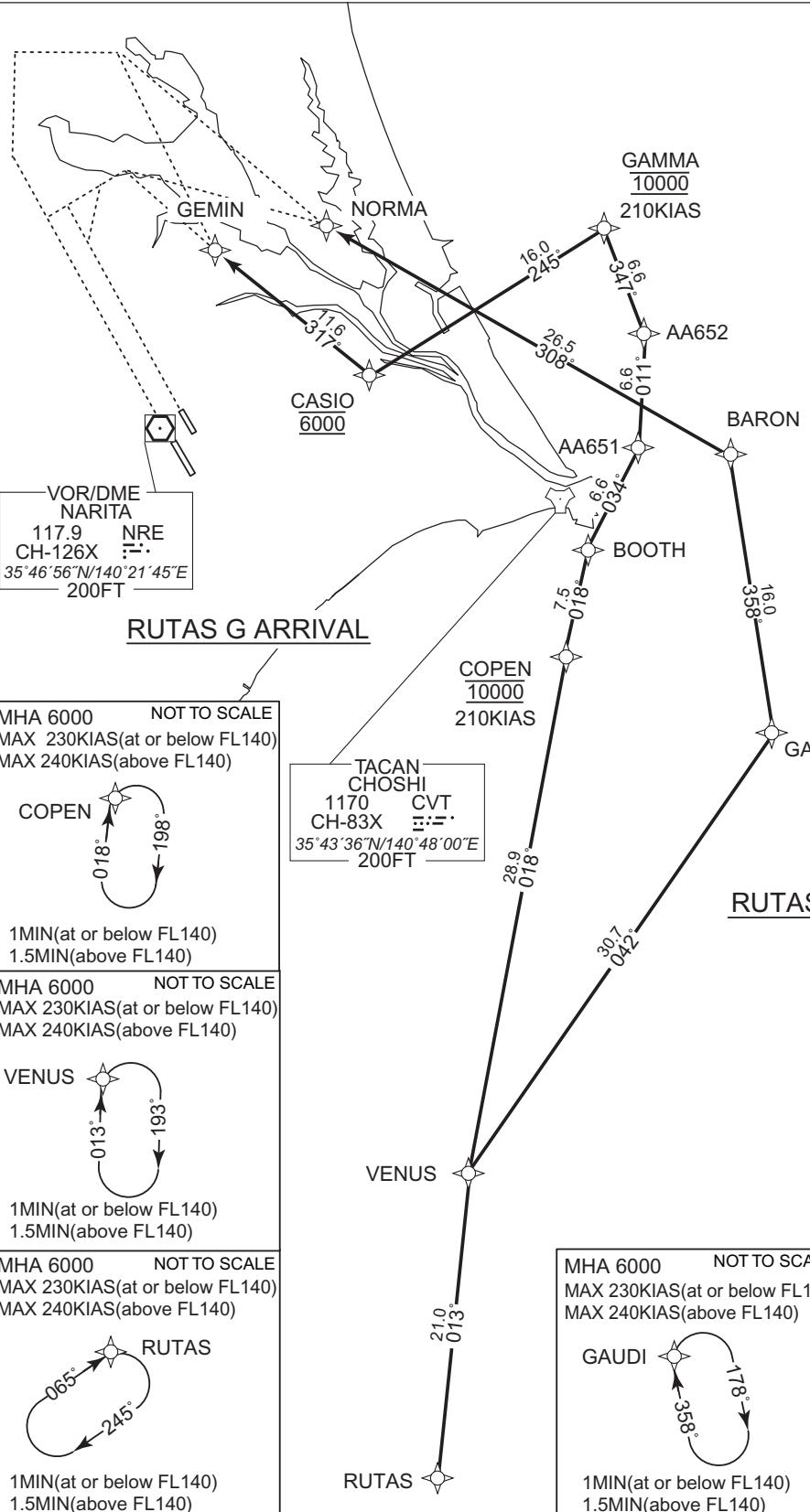
RNAV STAR RWY16R/16L

RUTAS G ARRIVAL
RUTAS N ARRIVAL

RNAV 1

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

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)

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

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)

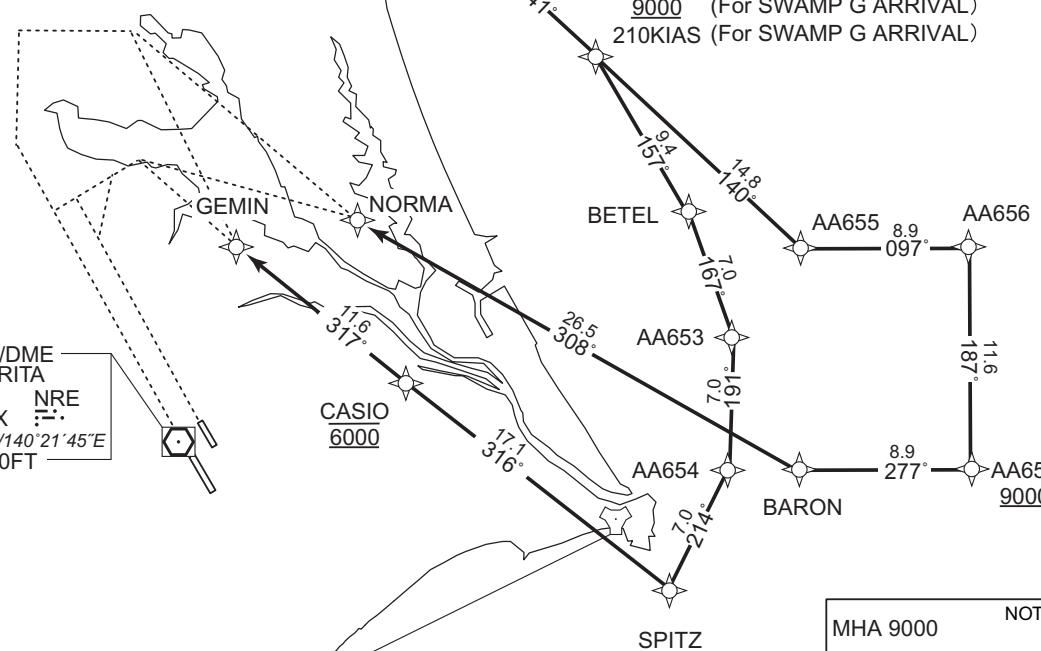
VAR 8° W

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

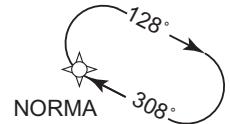
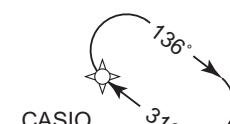
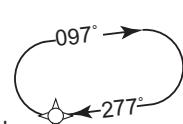
SWAMP

VIXEN

11000

SWAMP N ARRIVALPLEIA
9000 (For SWAMP G ARRIVAL)
210KIAS (For SWAMP G ARRIVAL)NOT TO SCALE
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)1MIN(at or below FL140)
1.5MIN(above FL140)

CHANGE : Description of HLDG pattern.

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)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

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

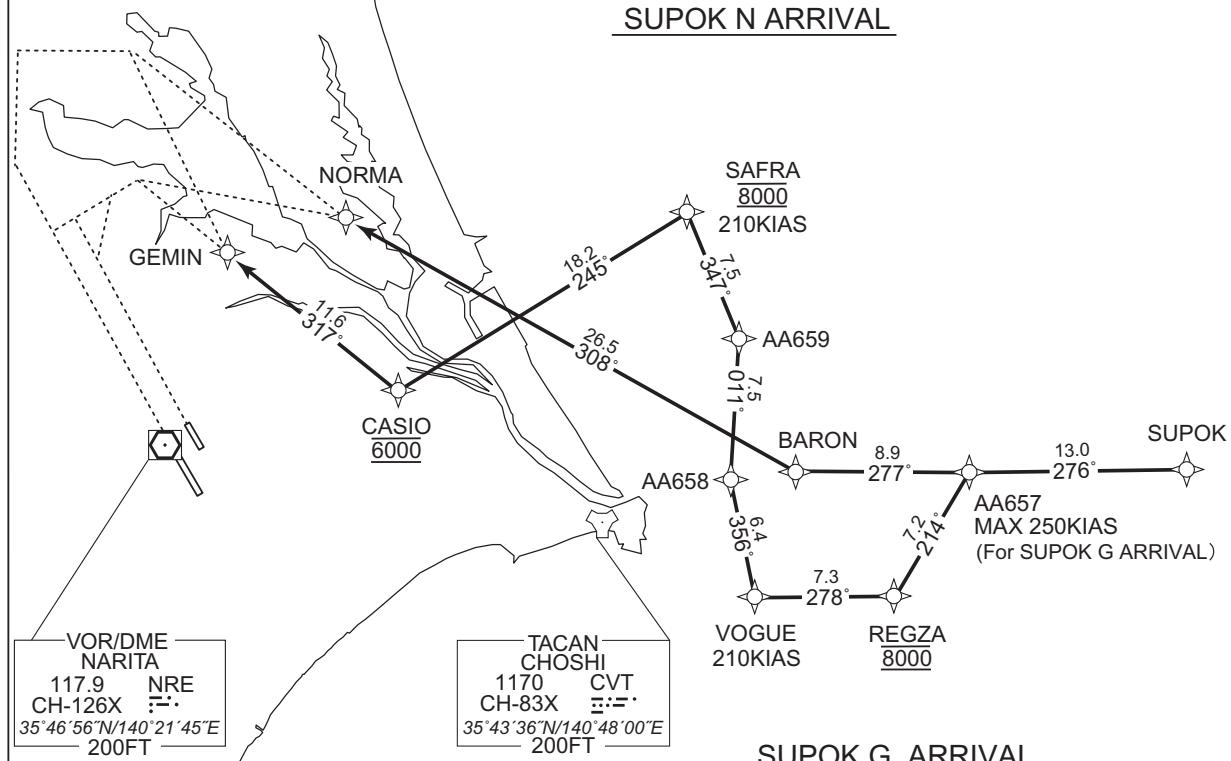
Note 1) DME/DME/IRU or GNSS required.

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

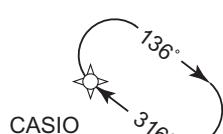
LUBLA G ARRIVAL
LUBLA N ARRIVAL

RNAV 1

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

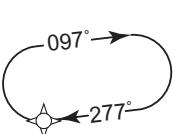
2) RADAR service required.

| | | |
|--|--|--|
| 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) |
|--|--|--|

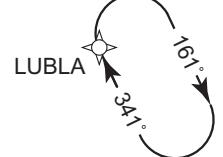
1MIN(at or below FL140)
1.5MIN(above FL140)

| |
|--|
| MHA 6000 NOT TO SCALE MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) |
|--|

BARON

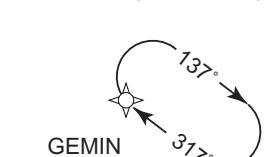
1MIN(at or below FL140)
1.5MIN(above FL140)

| |
|--|
| MHA 5000 NOT TO SCALE MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) |
|--|

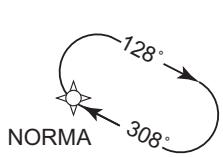
1MIN(at or below FL140)
1.5MIN(above FL140)

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)

LUBLA N ARRIVAL

GEMIN

NORMA

CASIO
6000

SAFRA

8000
210KIAS

AA659

AA658

BARON

VOGUE

210KIAS

REGZA

8000

(For LUBLA G ARRIVAL)

LUBLA

LUBLA G ARRIVAL

VOR/DME
NARITA
117.9
CH-126X
35°46'56"N/140°21'45"E
200FT

TACAN
CHOSHI
1170
CH-83X
35°43'36"N/140°48'00"E
200FT

CHANGE : Description of HLDG pattern.

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 |

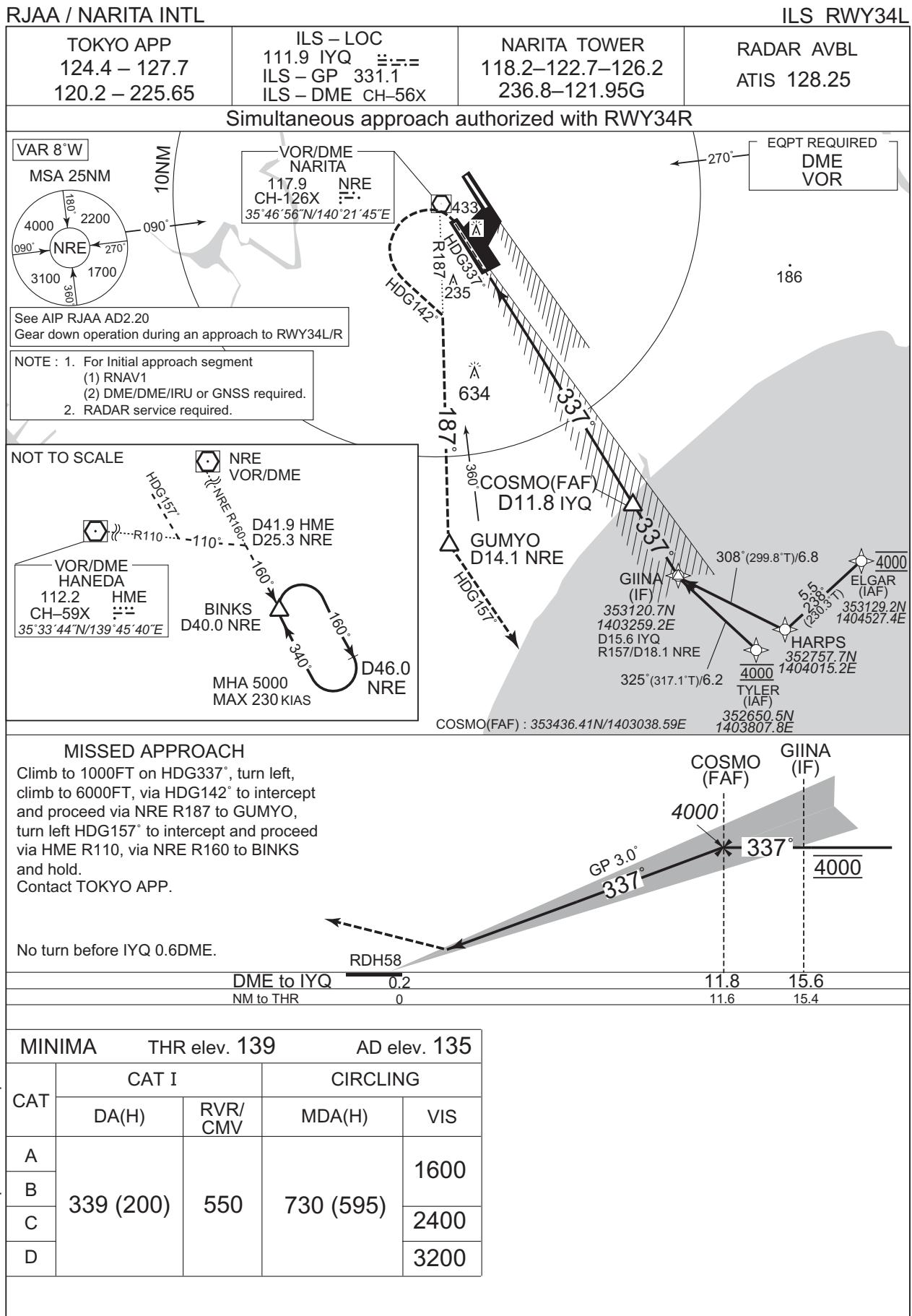
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 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 |

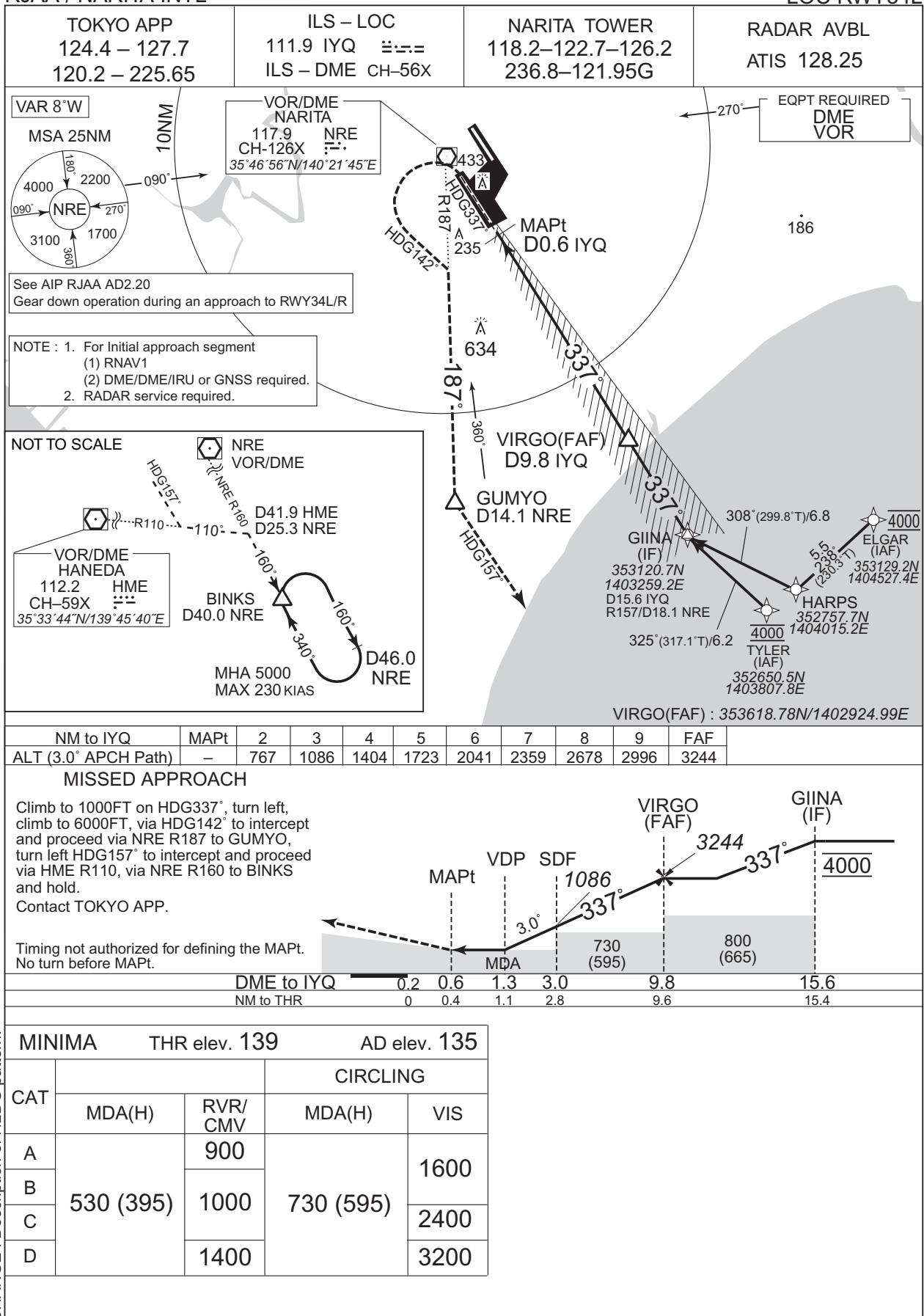
INSTRUMENT APPROACH CHART



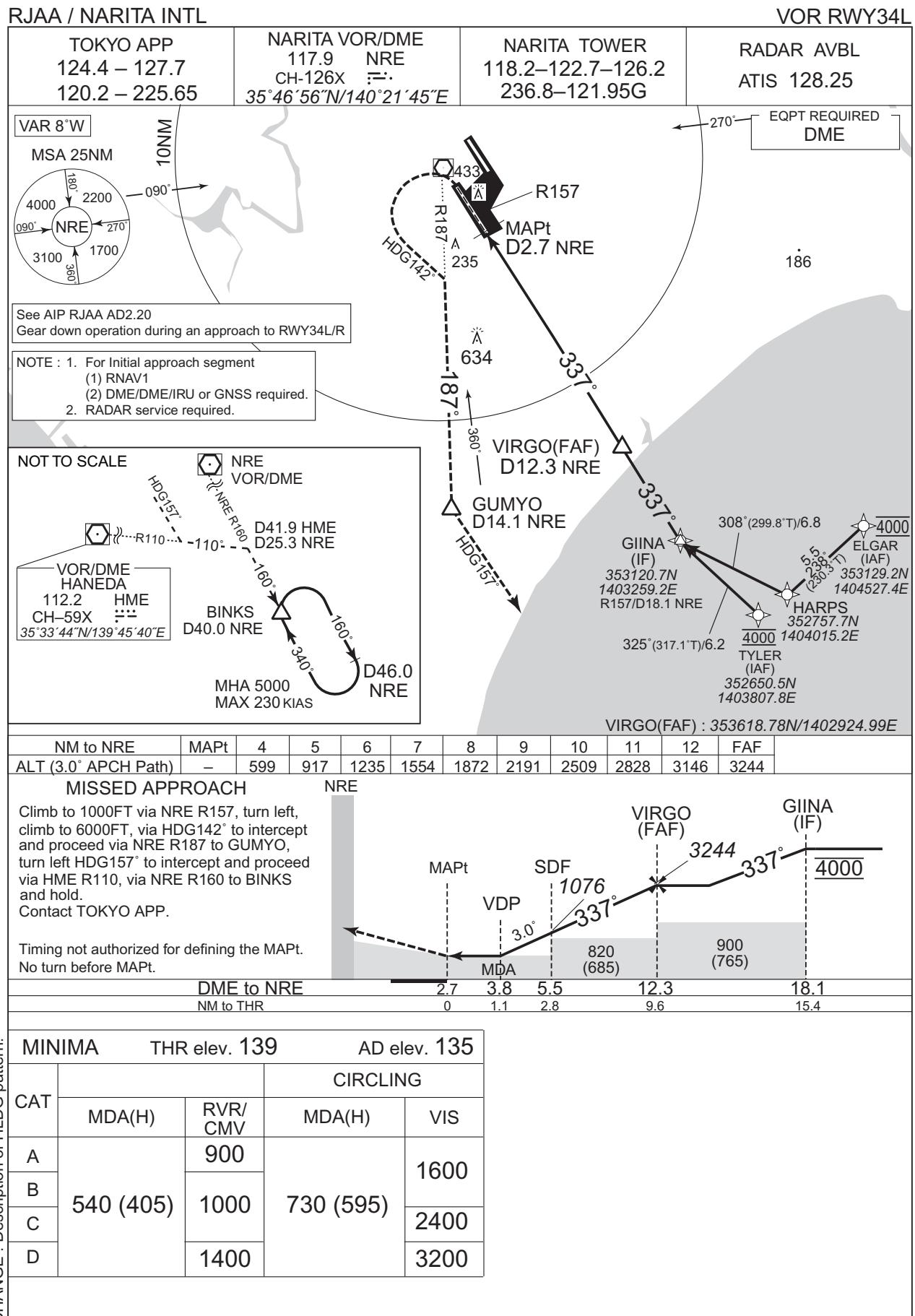
INSTRUMENT APPROACH CHART

RJAA / NARITA INTL

LOC RWY34L



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJAA / NARITA INTL

ILS Z RWY34R

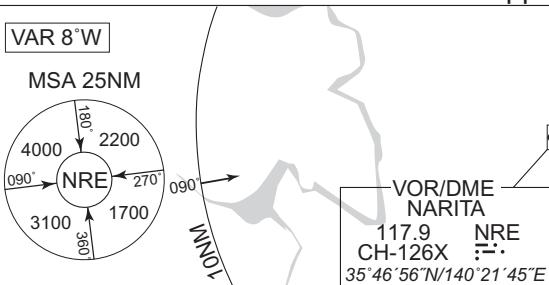
TOKYO APP
124.4 – 127.7
120.2 – 225.65

ILS – LOC
110.9 ITJ
ILS – GP 330.8
ILS – DME CH-46X

NARITA TOWER
118.35–122.7–126.2
236.8–121.85G

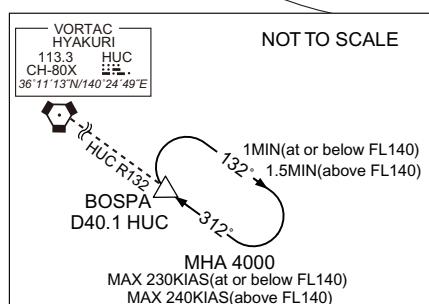
RADAR AVBL
ATIS 128.25

Simultaneous approach authorized with RWY34L



See AIP RJAA AD2.20
Gear down operation during an approach to RWY34L/R

NOTE : 1. For initial approach segment
(1) RNAV1
(2) DME/DME/IRU or GNSS required.
2. RADAR service required.



LAPIS(FAF) : 353437.27N/1403233.16E

NOT TO SCALE MISSED APPROACH

Climb to 700FT on HDG337°,
turn right HDG140° to intercept
and proceed via NRE R095 to
BOSPA and hold at 8000FT.
Contact TOKYO APP.

NRE

RDH55

DME to ITJ
NM to THR

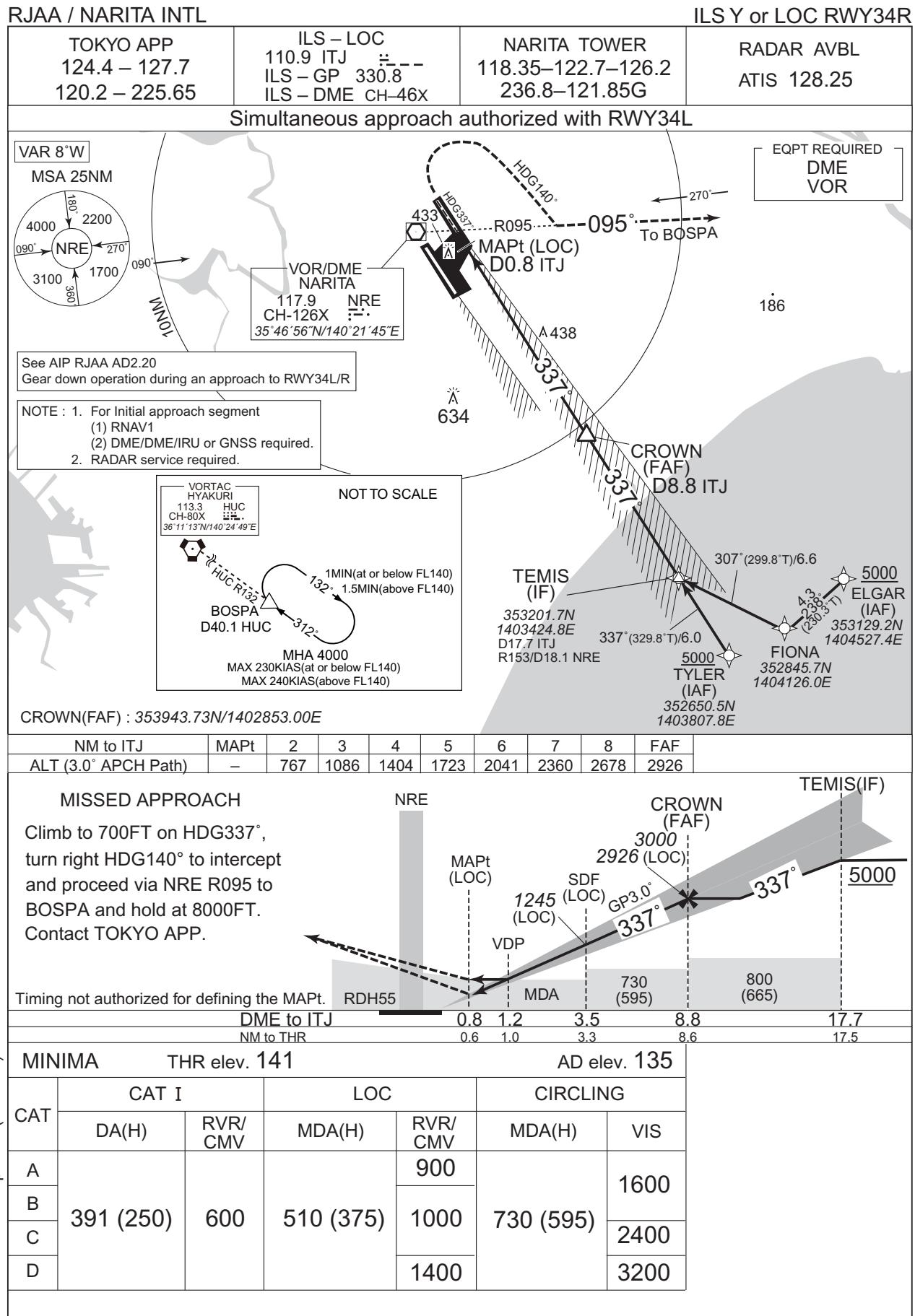
LAPIS (FAF)
5000
337°
GP3.0°
337°
5000
14.7 17.7
14.5 17.5

MINIMA THR elev. 141 AD elev. 135

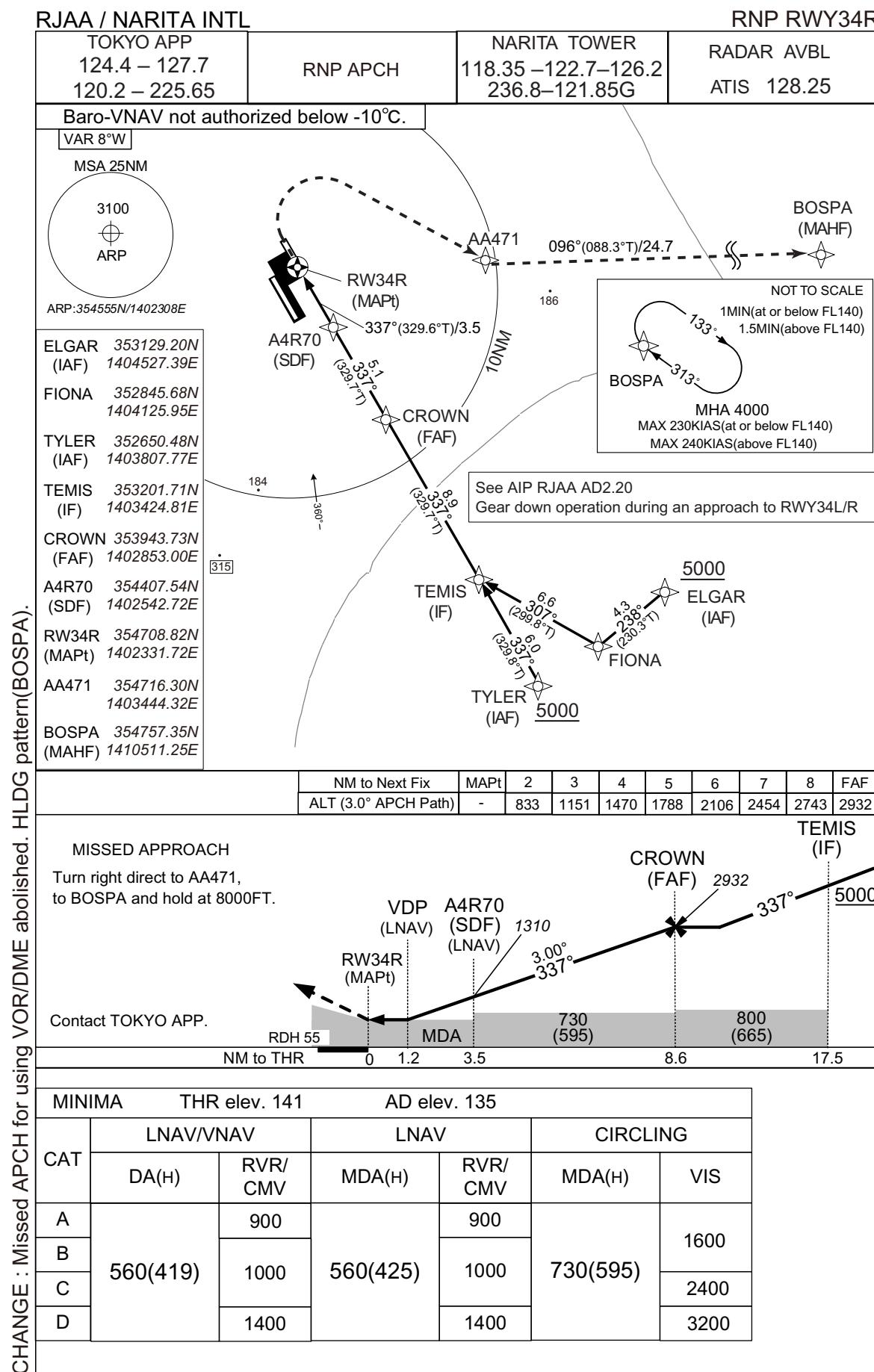
CHANGE : HDG pattern(BOSPA).

| CAT | CAT I | | CIRCLING | |
|-----|-----------|-------------|-----------|------|
| | DA(H) | RVR/ CMV | MDA(H) | VIS |
| A | | | | 1600 |
| B | 391 (250) | 600 | 730 (595) | 2400 |
| C | | | | 3200 |
| D | | | | |

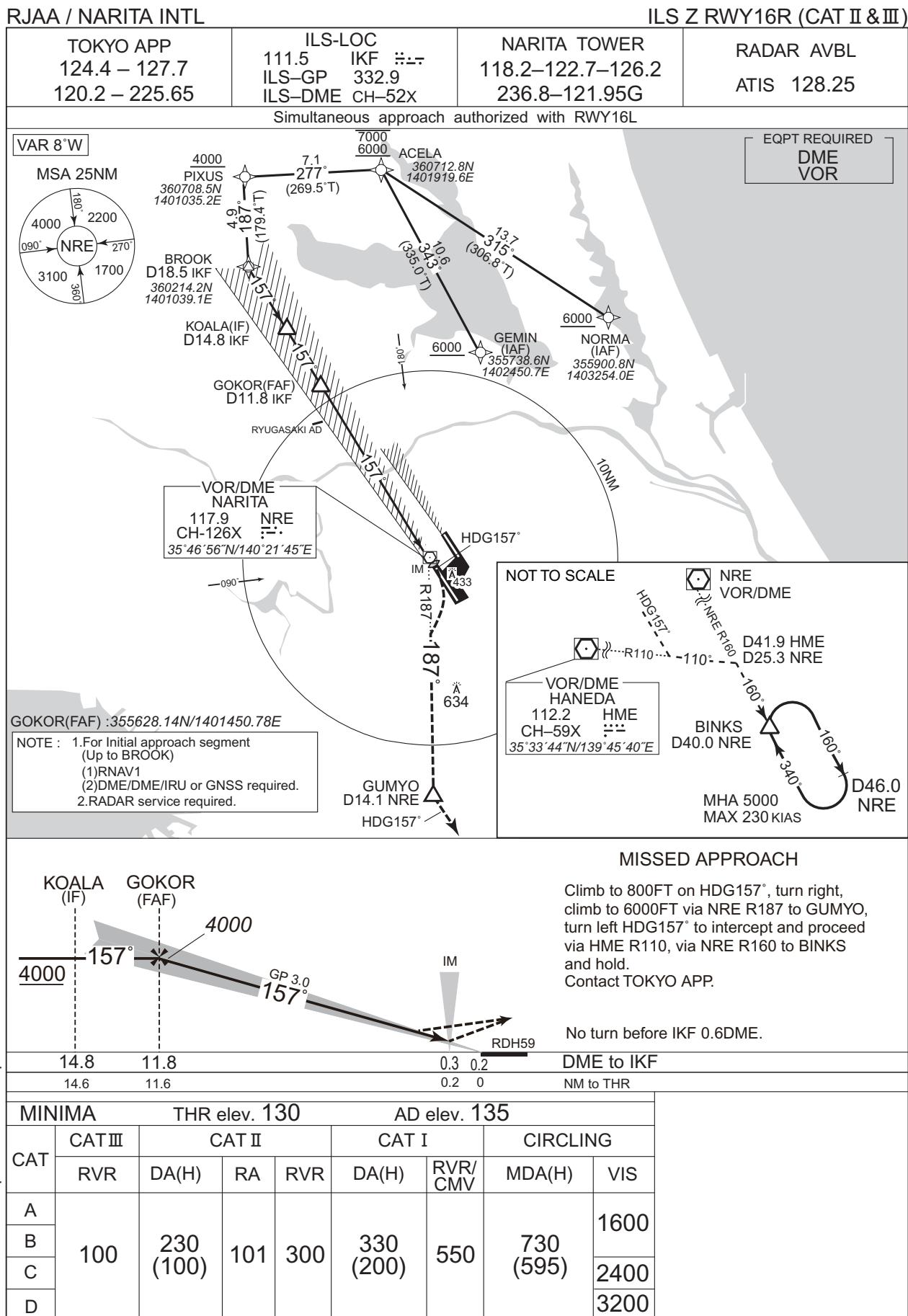
INSTRUMENT APPROACH CHART



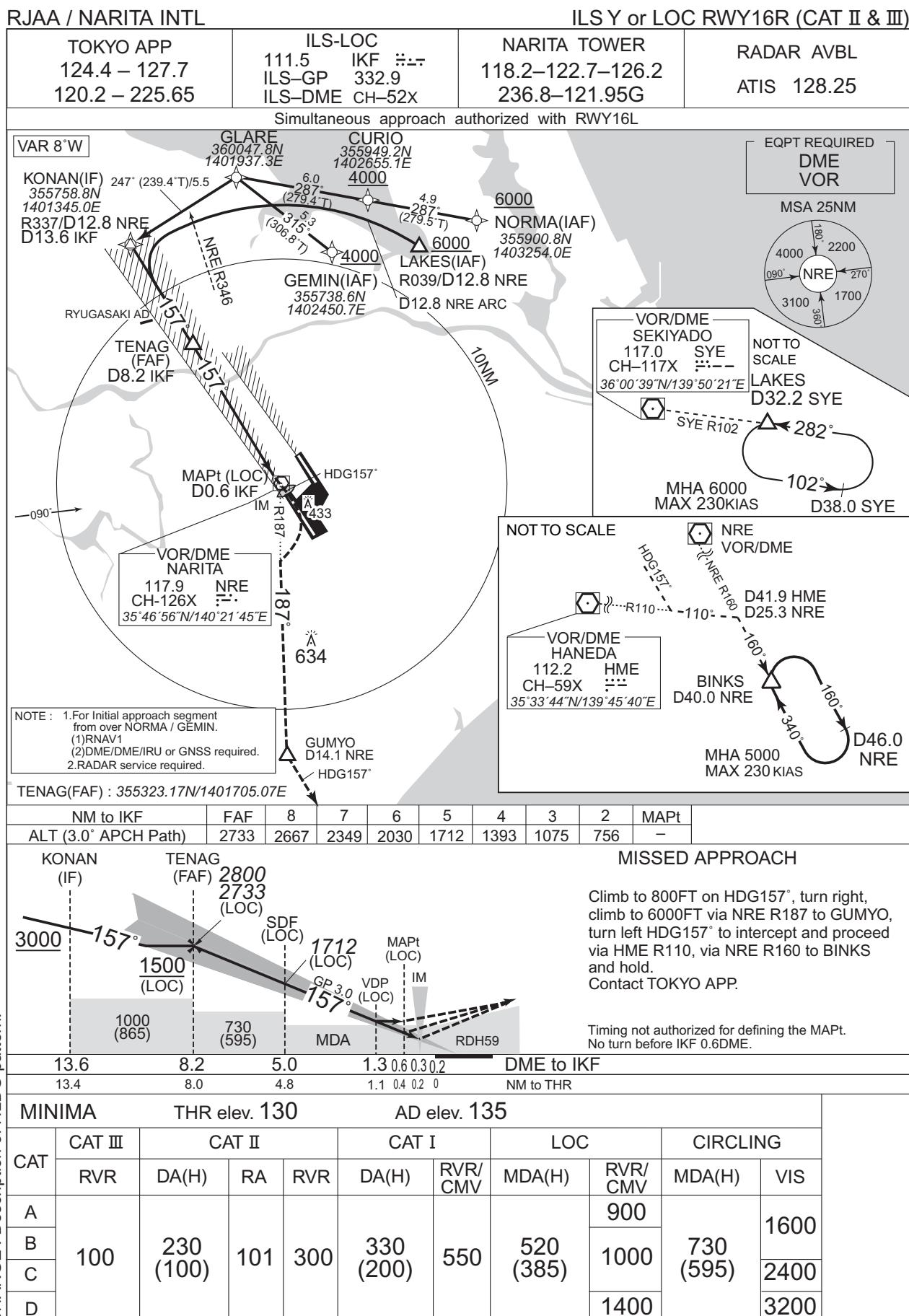
INSTRUMENT APPROACH CHART



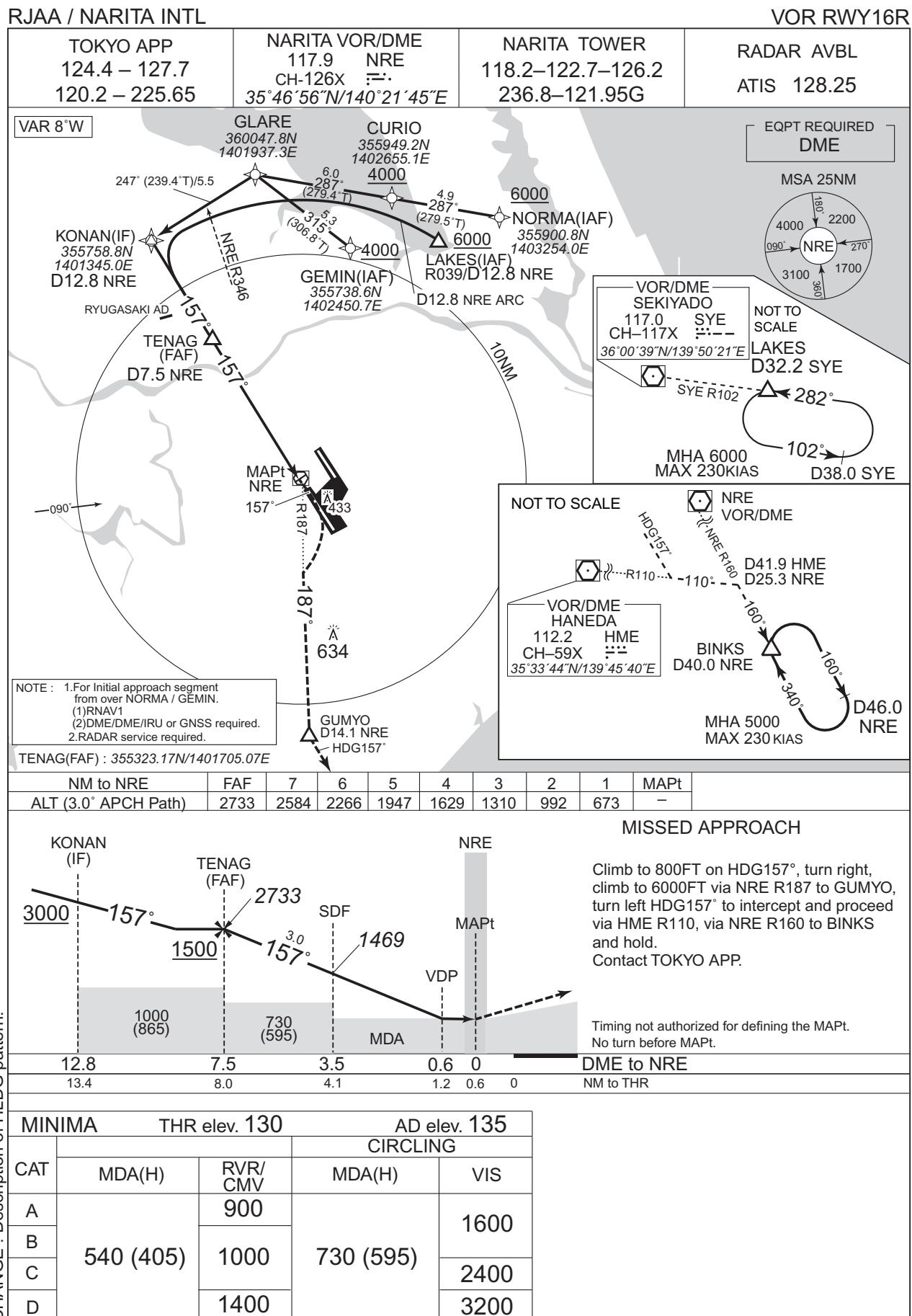
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



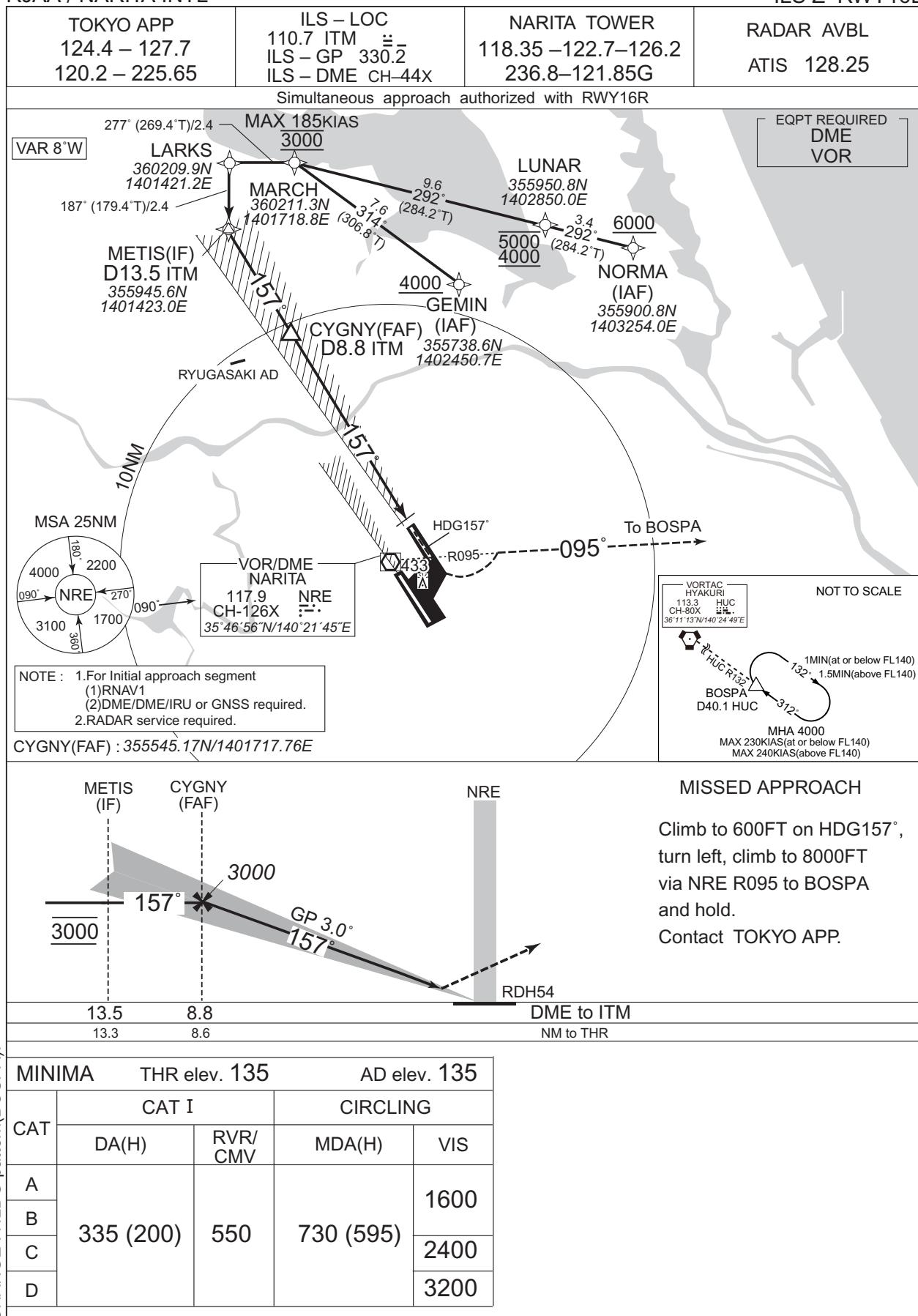
INSTRUMENT APPROACH CHART



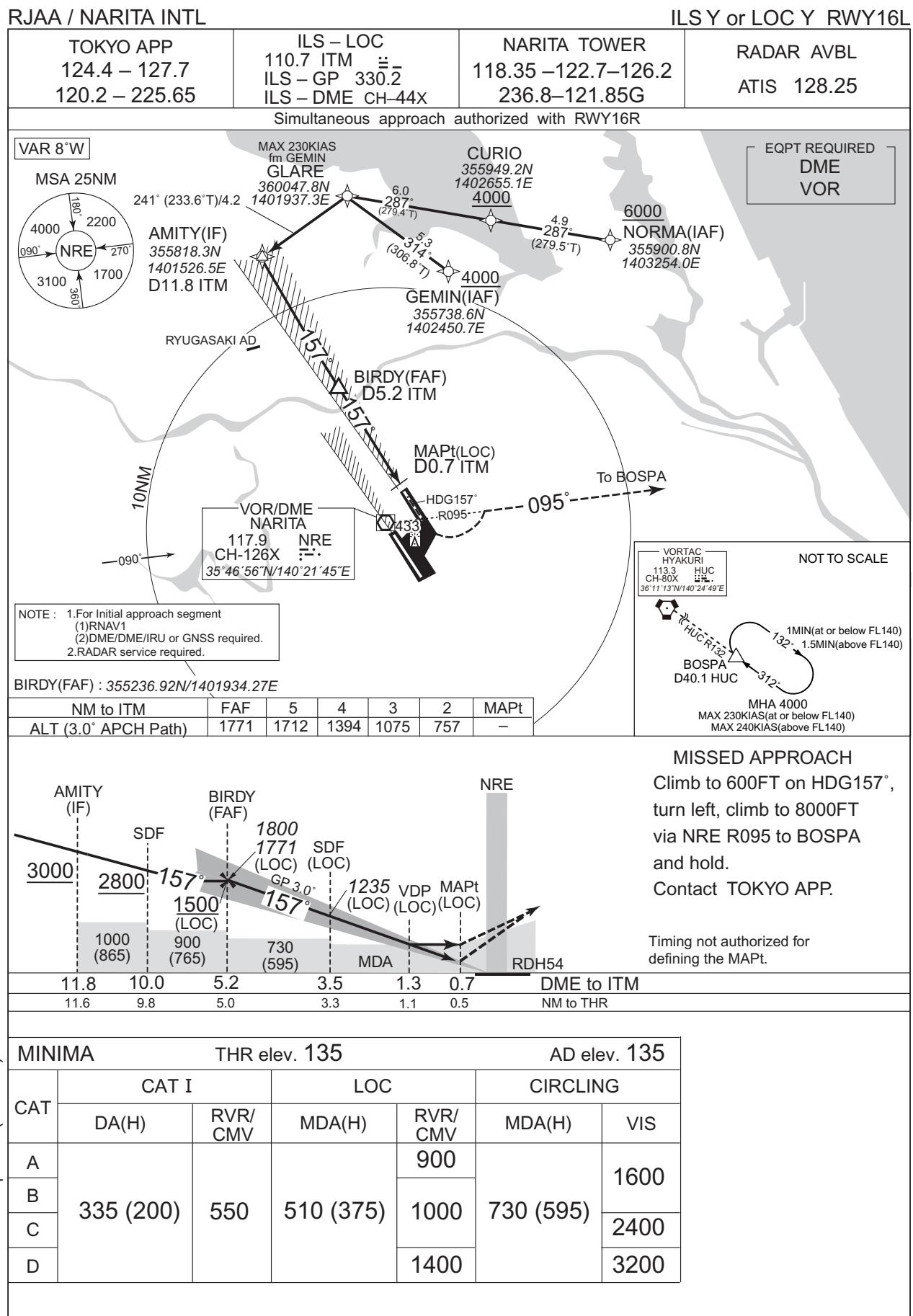
INSTRUMENT APPROACH CHART

RJAA / NARITA INTL

ILS Z RWY16L



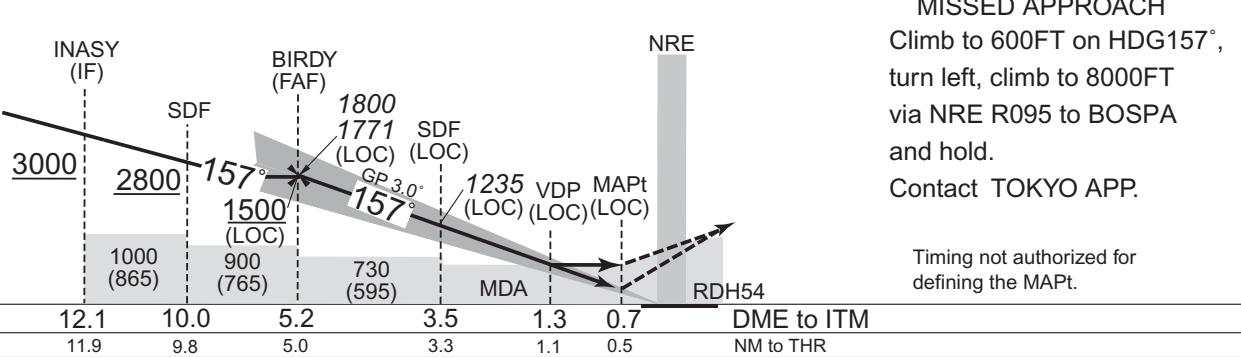
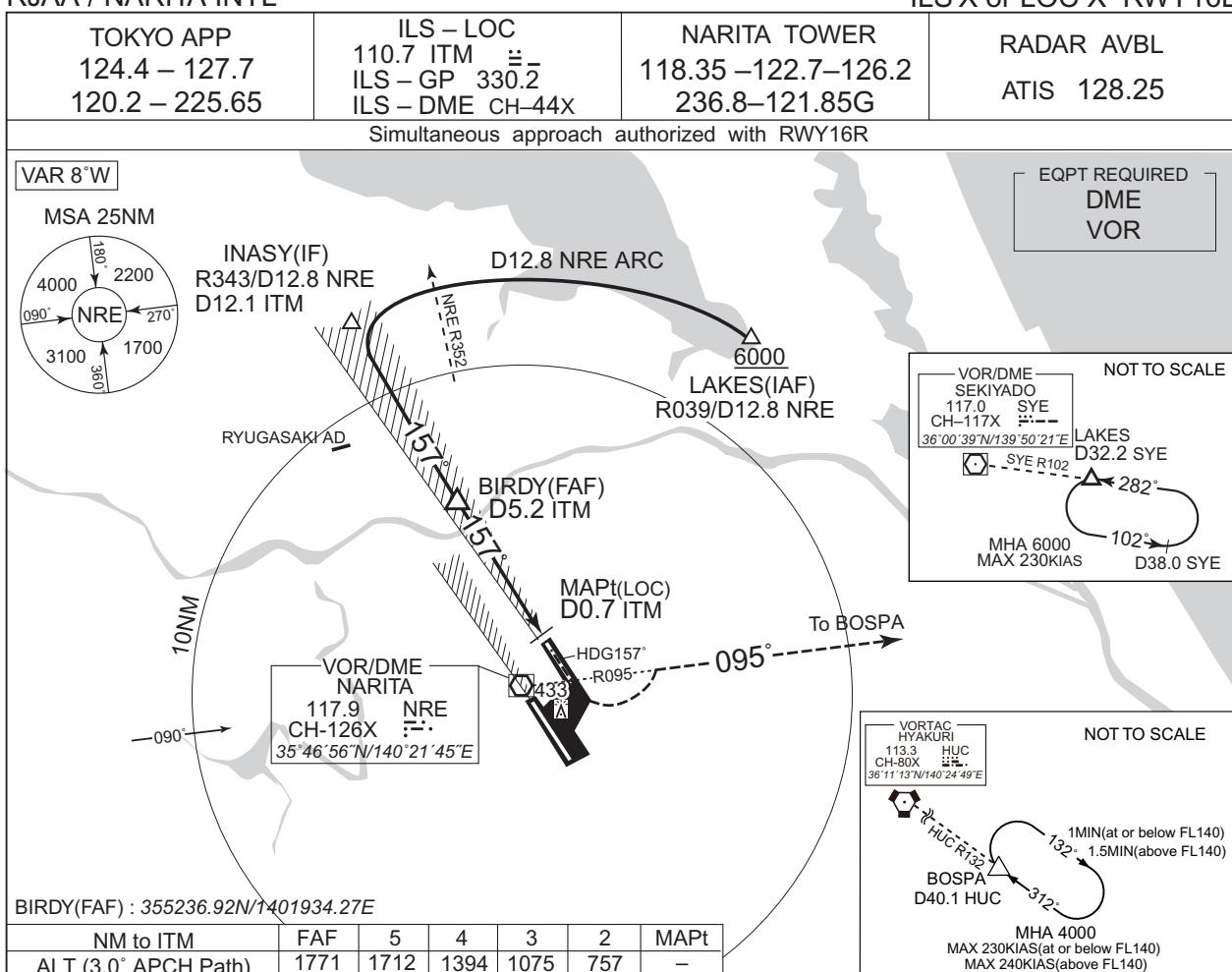
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJAA / NARITA INTL

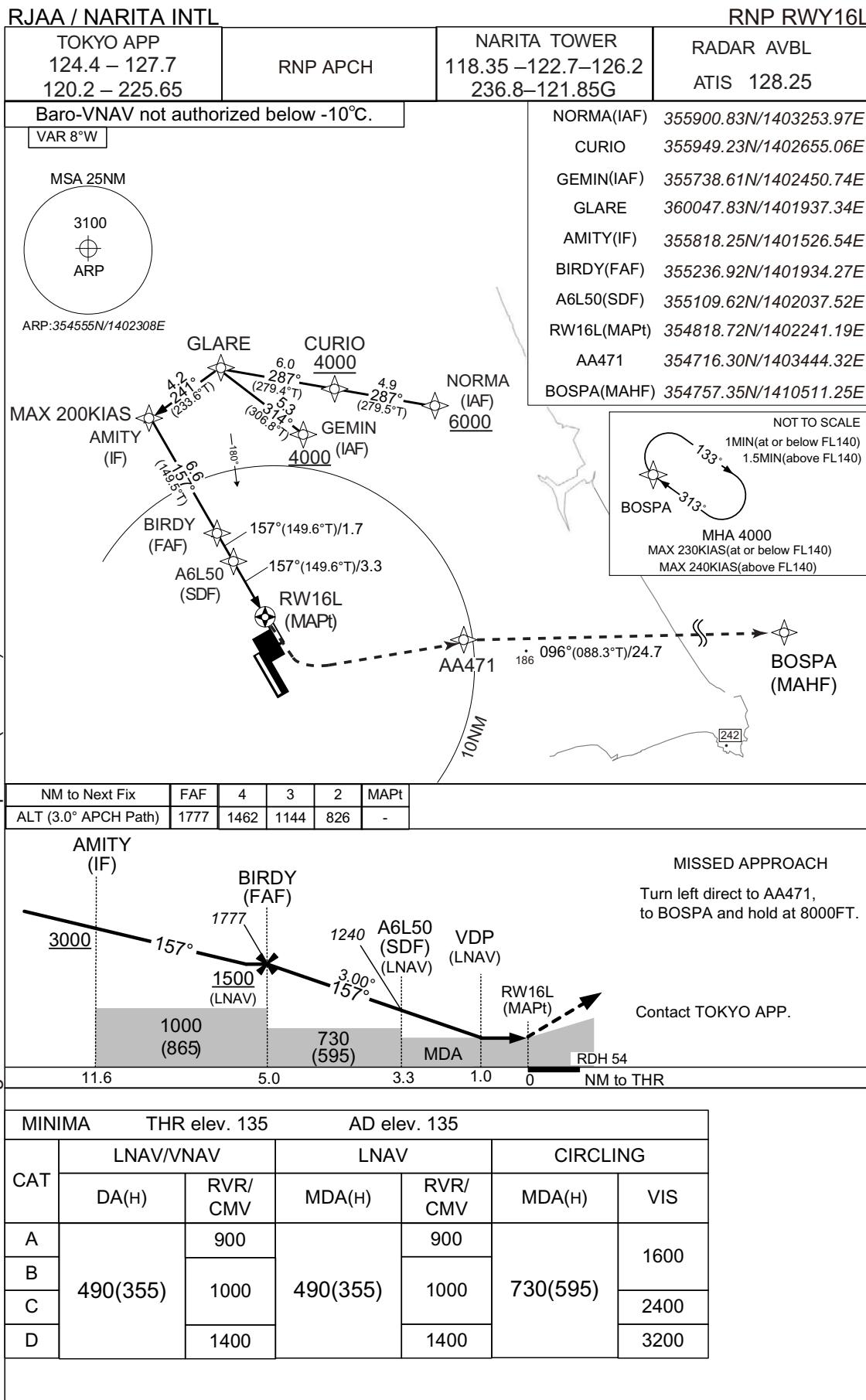
ILS X or LOC X RWY16L



| CAT | MINIMA | | THR elev. 135 | | AD elev. 135 | |
|-----|-----------|---------|---------------|---------|--------------|------|
| | CAT I | | LOC | | CIRCLING | |
| | DA(H) | RVR/CMV | MDA(H) | RVR/CMV | MDA(H) | VIS |
| A | | | | 900 | | 1600 |
| B | 335 (200) | 550 | 510 (375) | 1000 | 730 (595) | 2400 |
| C | | | | | | 3200 |
| D | | | | 1400 | | |

CHANGE : HLDG pattern(BOSPA).

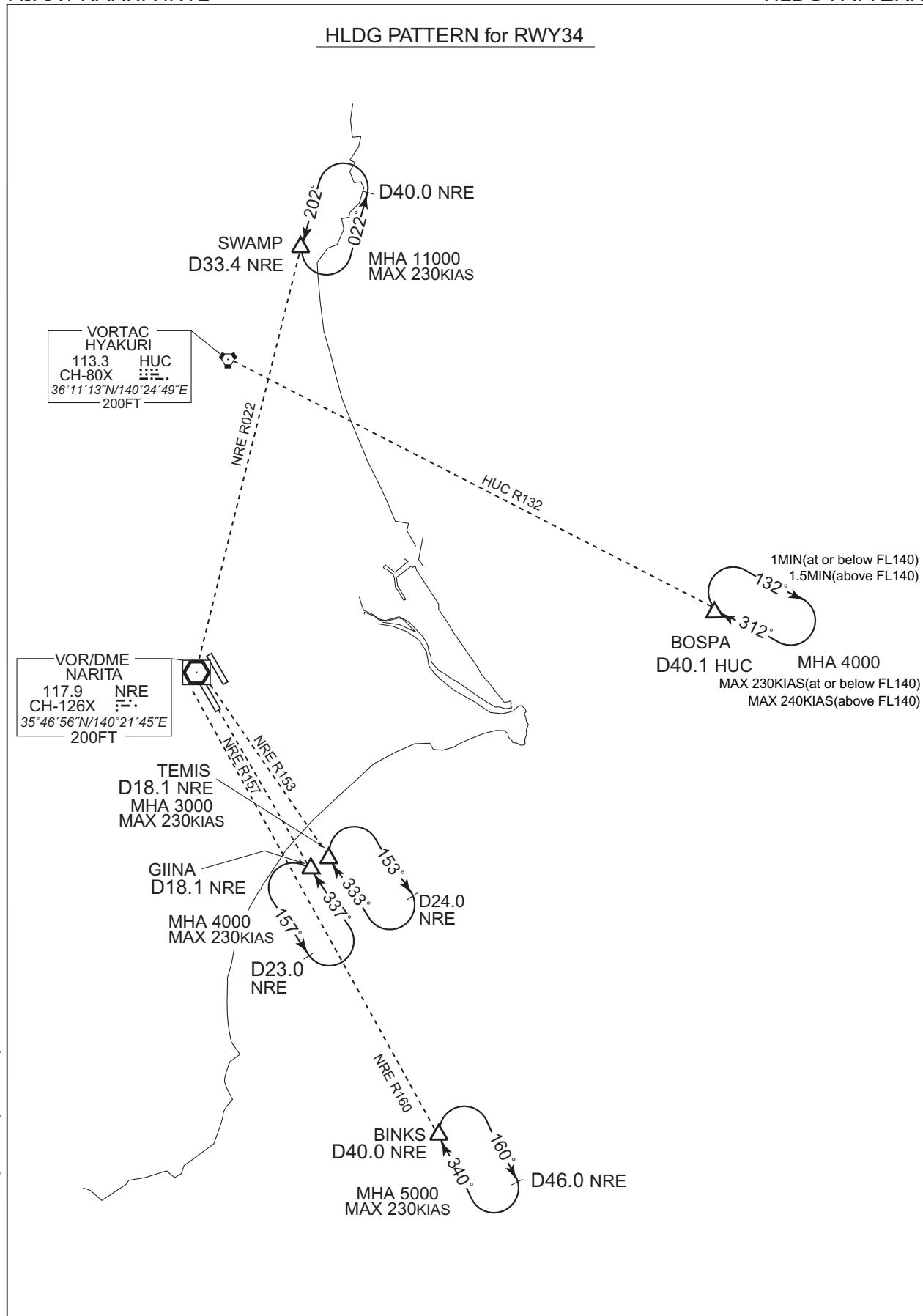
INSTRUMENT APPROACH CHART



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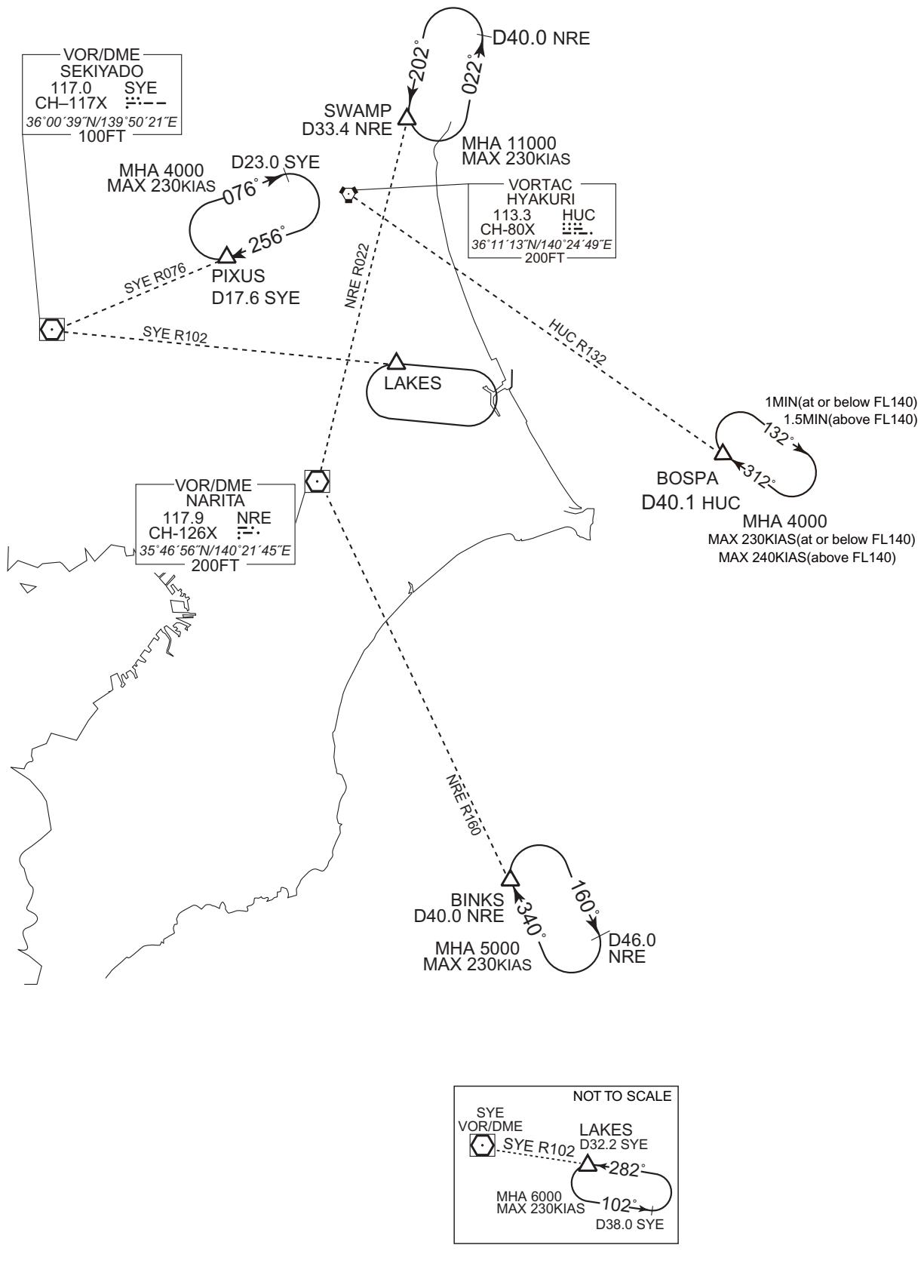
RJAA / NARITA INTL

HLDG PATTERN



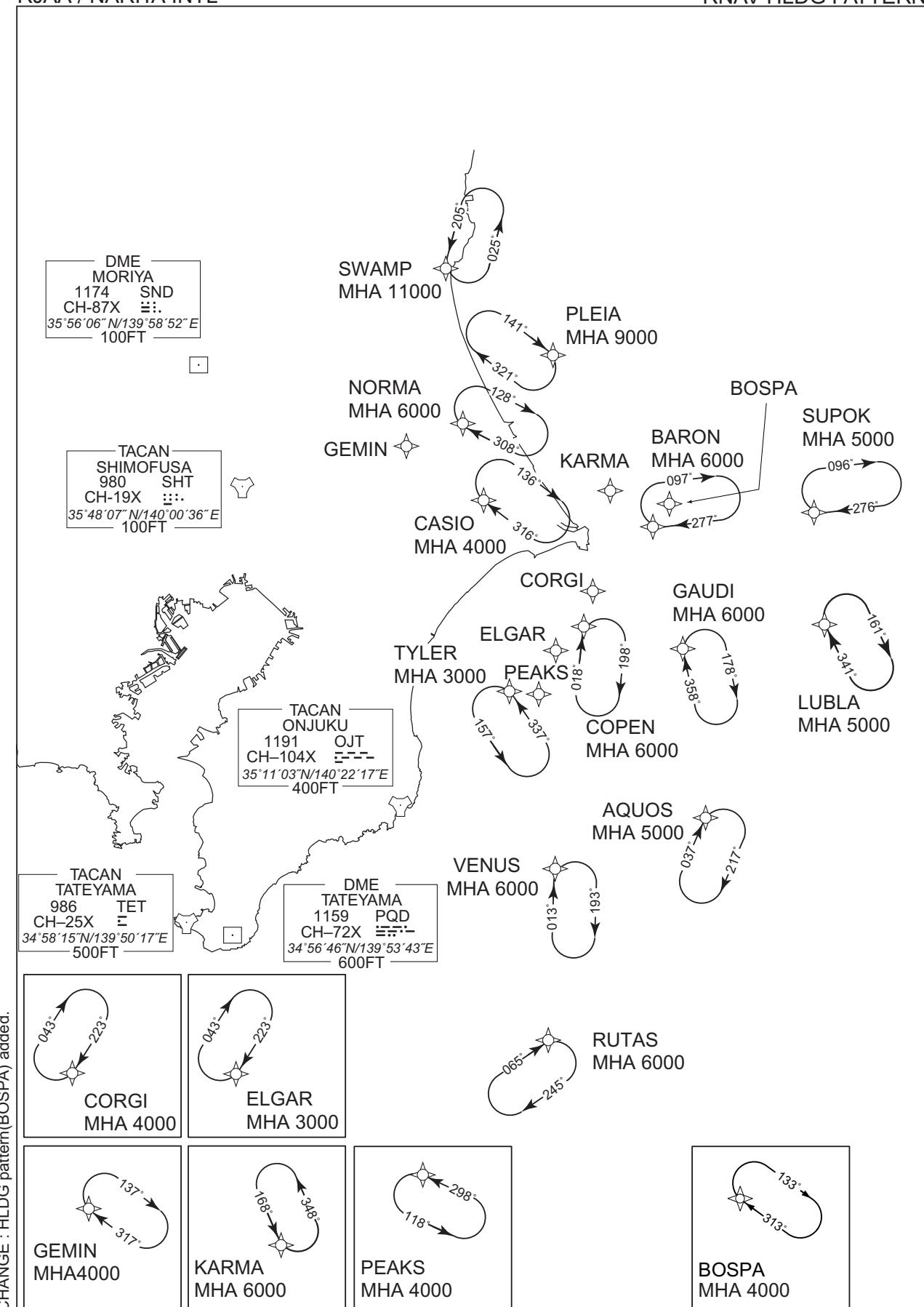
RJAA / NARITA INTL

HLDG PATTERN

HLDG PATTERN for RWY16

RJAA / NARITA INTL

RNAV HLDG PATTERN



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

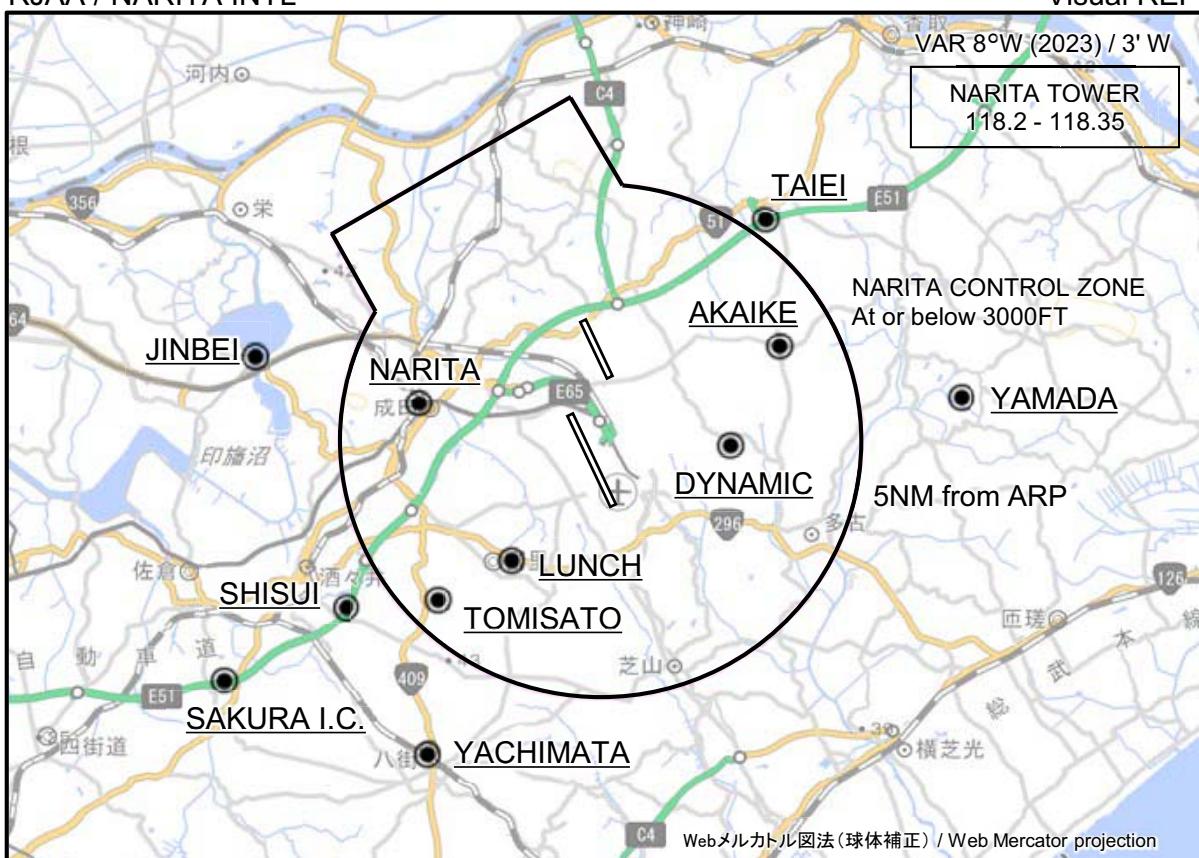
| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| AQUOS | 351229.7N / 1410942.5E | LUBLA | 353235.0N / 1412550.8E |
| BARON | 354551.0N / 1410112.0E | NORMA | 355900.8N / 1403254.0E |
| 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

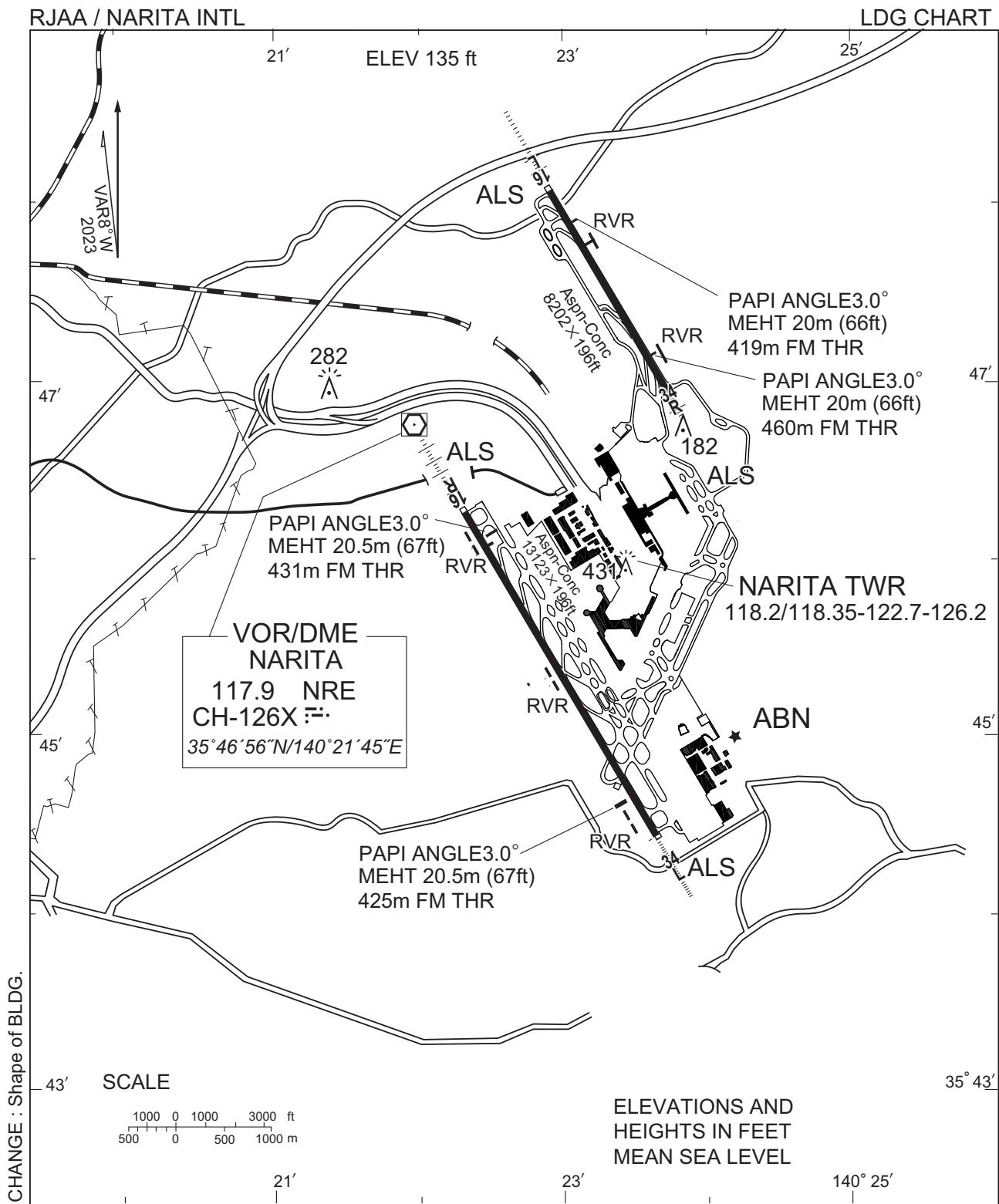
Visual REP



※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).

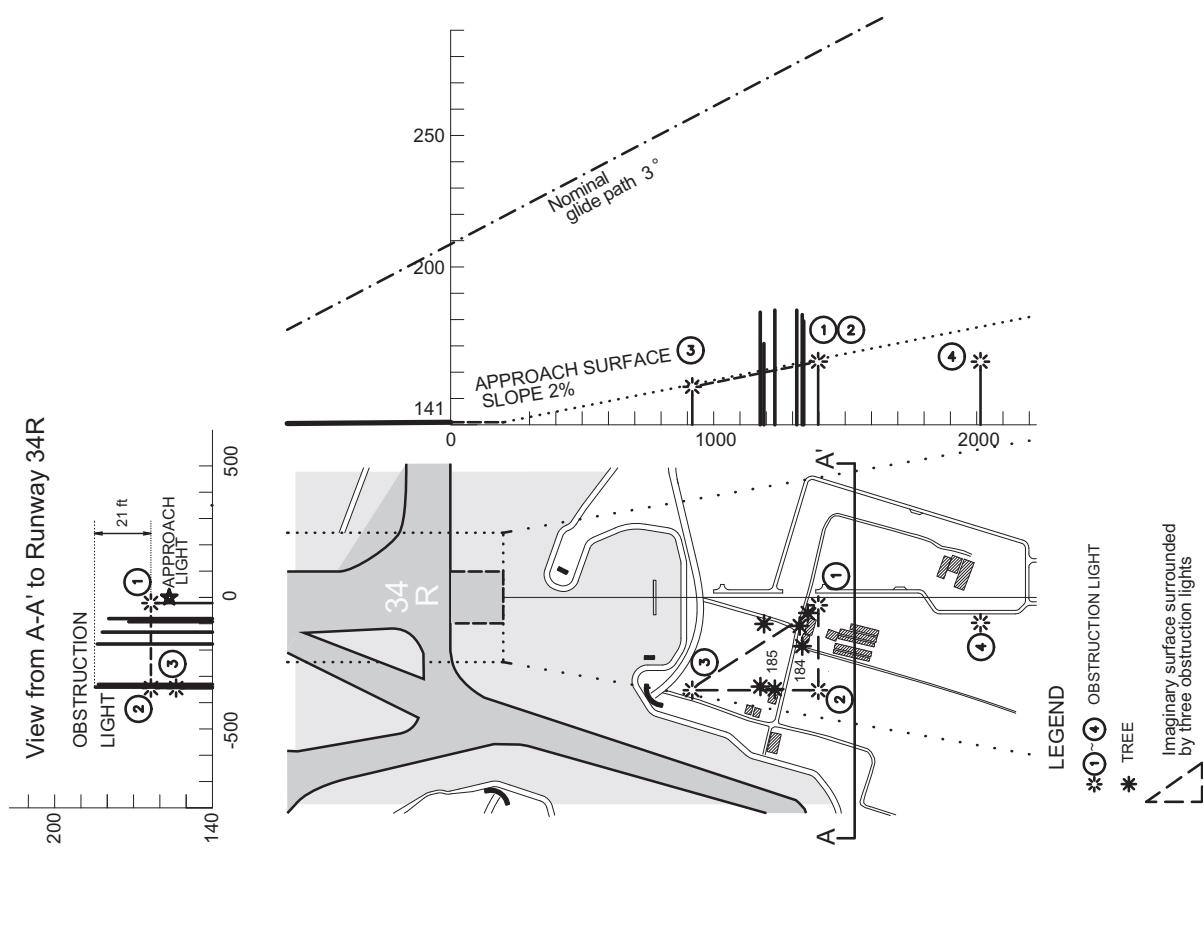
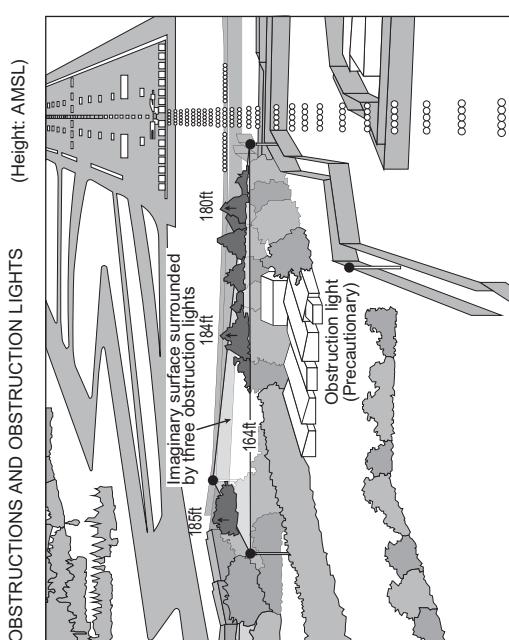
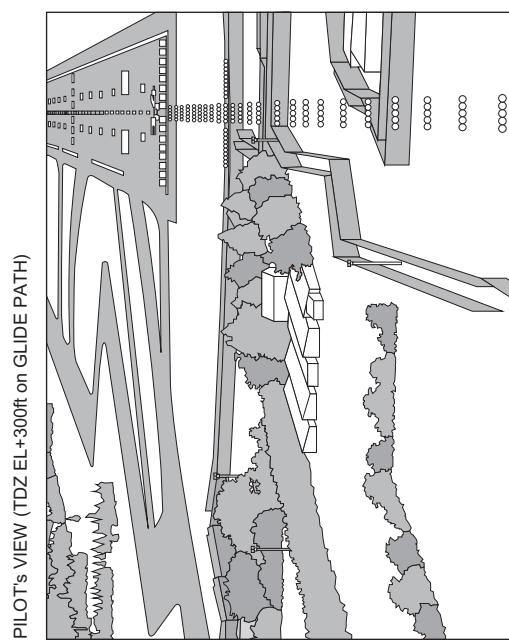
CHANGE : Visual REP abolished(Radisson).

| 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 |



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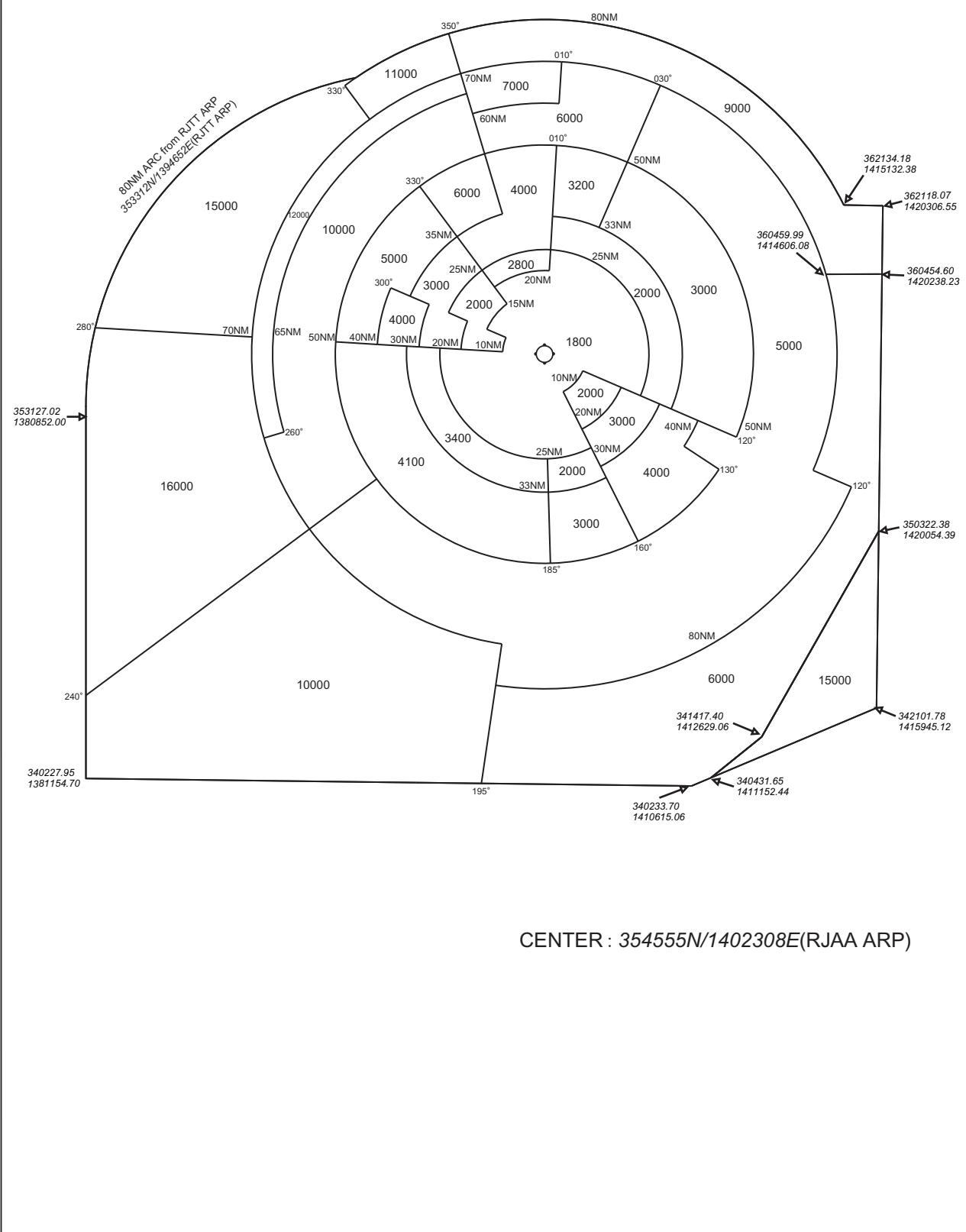
LDG CHART (Trees existence on final approach area of Runway 34R)



RJAA / NARITA INTL

Minimum Vectoring Altitude CHART

VAR 8° W(2023)



INTENTIONALLY LEFT BLANK